CARDINIA ROAD PRECINCT

DEVELOPMENT CONTRIBUTIONS PLAN

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Cardinia Road Precinct Development Contributions Plan:

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1. Introduction

1.1 Background

This Cardinia Road Precinct Development Contributions Plan (DCP) has been developed to support the funding of infrastructure in the Cardinia Road Precinct Structure Plan area.

The Cardinia Road Precinct Structure Plan has been prepared by the Cardinia Shire Council in conjunction with the Growth Areas Authority (GAA), government agencies, service authorities and major stakeholders to guide future development in the Cardinia Road Precinct and sets the long - term strategic framework for the development of the Cardinia Road Precinct in relation to:

- land use (such as residential development of varying densities, industrial, retail, commercial uses, open space, education facilities and community facilities);
- transport (such as the primary arterial and local arterial road network, collector roads & proposed public transport);
- activity centres (Neighbourhood Activity Centres and Neighbourhood Convenience Centres);
- open space (passive & active), waterways and environmentally sensitive areas.

Improved social, economic, environmental and urban design outcomes are achieved through the provision of infrastructure early in the development of a new community. The delivery of key infrastructure in a timely and efficient manner is fundamental to sustainable outcomes in urban growth areas including the Cardinia Road Precinct.

The Cardinia Road Precinct Structure Plan identifies a range of physical and social infrastructure required as part of the development of the Cardinia Road Precinct. Not all of this infrastructure will be funded through the DCP.

This infrastructure is provided through a number of mechanisms including:

- subdivision construction works by developers;
- development contributions (community infrastructure levy and development infrastructure levy);
- utility service provider contributions; and

 capital works projects by Council, state government agencies and community groups.

The DCP will collect levies to ensure that the infrastructure set out in this DCP is funded to enable Cardinia Shire Council to provide the infrastructure. However this DCP is not the sole source of funding for all infrastructure in the Cardinia Road Precinct. The full range of infrastructure identified in the Cardinia Road Precinct Structure Plan will only be delivered if infrastructure is provided by a variety of funding sources. Decisions have been made about the type of infrastructure which will be funded by this DCP, those decisions are in line with the Ministerial Direction for Development Contributions.

This DCP has been developed in accordance with the provisions of Part 3B of the Planning and Environment Act and the Victorian State Government *Development Contributions Guidelines (2003)*.

1.2 The DCP Area

Figure 1 Cardinia Road Precinct DCP - Main Catchment Area



LEGEND



Main Catchment Area (MCA) boundary



Cardinia Road Precinct Structure Plan boundary



Not included in Main Catchment Area (MCA)

The DCP applies to the parcel of land within the Officer/Pakenham area as outlined in Figure 1 – Cardinia Road Precinct DCP Main Catchment Area.

The area is bounded by:

- Peck Rd and the transmission easement to the north;
- Toomuc Creek to the east;
- The Pakenham bypass to the south;
- Gum Scrub Creek to the west.

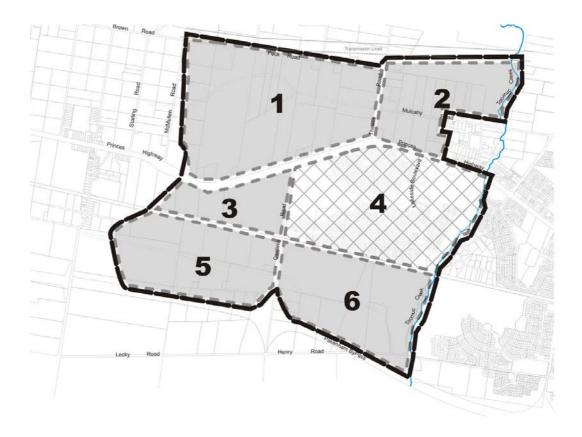
This area forms the Main Catchment Area of the DCP.

1.3 DCP Charge Areas (Cells)

For the purpose of administering the DCP, the main catchment area has been divided into 6 neighbourhoods which form individual Cells. These 6 Cells are divided naturally by the transport grid within the DCP area. The Princes Highway and the Pakenham train line divide the Cells on the north-south axis while Thewlis Road (north of Princes Highway) and Cardinia Road (south of Princes Highway) divide the Cells on the east-west axis.

Figure 2 shows the location of the 6 Cells in the DCP area.

Figure 2 Cardinia Road Precinct DCP Cells



1.4 Cell 4

Land within Cell 4 is subject to the existing approved Pakenham Township Development Contributions Plan. There is also an existing development agreement which specifies infrastructure works to be provided as part of the development of the land within this Cell.

This infrastructure includes:

- Intersection works (traffic signals) at the intersection of Princes Highway and Lakeside Boulevard;
- Construction of Lakeside Boulevard and Shearwater Drive as a Local Arterial Road (divided);
- Provision of a District Park including a lake;
- Provision of land for a Cultural Centre, Police and Emergency Services Precinct and land to form part of the proposed railway station;
- Construction of a Neighbourhood Sports Reserve on the corner of Cardinia Road and Shearwater Drive;
- Construction of park improvements in local parks within Cell 4;
- Landscape works and a pedestrian and bicycle path along the Toomuc Creek corridor that abuts Cell 4.

Cell 4 has been included in the DCP for the purpose of ensuring an equitable distribution of costs for infrastructure works. However, costs attributed to Cell 4 in the DCP are to be met from other funding sources.

1.5 North-Eastern Industrial Area

The North-Eastern industrial area adjacent to Cell 2 has been excluded from the Cardinia Road Precinct DCP on the basis that it is a pre existing development that is covered under an existing development agreement.

1.6 DCP Timeframe

For the purposes of the DCP a 15 year life has been adopted. This period commences from the date that the DCP is incorporated into the Cardinia Planning Scheme.

2. Statutory Framework

2.1 Planning and Environment Act 1987

Part 3B of the *Planning and Environment Act 1987* outlines the statutory provisions relating to development contributions. In summary, Part 3B provides for, amongst other things:

- The inclusion of a DCP in the planning scheme, for the purpose of levying contributions for the provision of works, services and facilities (Section 46I);
- The provision to impose either a development infrastructure levy or a community infrastructure levy (Section 46J);
- The contents required of a DCP (Section 46K);
- In the case of the construction of the dwelling the community levy must not exceed the amount specified per dwelling (Section 46L).
- The provision for the Minister to issue written directions relating to the preparation and content of a DCP (Section 46M);
- The collection of a development infrastructure levy, by way of a condition on a
 planning permit either requiring the payment of a levy within a specified time,
 or entering into an agreement to pay the levy within a specified time (Section
 46N).

2.2 State Planning Policy Context

The Minister's Direction dated 15 May 2003 outlines what may be funded with a development contribution levy, namely:

- Acquisition of land for roads, public transport corridors, drainage, public open space, community facilities;
- Construction of roads, including bicycle, footpaths and traffic management devices;
- Construction of public transport infrastructure, including fixed rail infrastructure, railway stations, bus stops and tram stops;
- Basic improvements to public open space, including earthworks, landscaping, fencing, seating and playground equipment;
- Drainage works;

 Buildings and works for maternal and child health centre, child care centre, kindergarten or a combination of these.

The Victorian State Government has published a set of documents which make up the *Development Contributions Guidelines (2003)*. The *Development Contributions Guidelines (2003)* are available through the Department of Planning and Community Development (DPCD) website.

These documents provide guidance as to how DCPs are to be prepared and administered including the matters that DCPs are to consider.

Variation to the Community Infrastructure Levy (CIL) payable under this Development Contributions Plan (DCP)

If the maximum amount of the CIL which may be collected under an approved DCP is varied under section 46L of the Planning and Environment Act 1987, the collecting agency may adjust the amount of the CIL payable under this DCP in accordance with section 46L of the Planning and Environment Act 1987.

The collecting agency must publish the adjusted amount of the CIL payable under this DCP on its website.

3. Local Strategic Context

3.1 Local Planning Context

A number of strategic planning documents have been prepared by, or on behalf of Council that identify the need, standard and costs for the infrastructure items that are included in this DCP.

The strategic documents that have informed the provision of infrastructure items to be financed by the DCP are:

- Cardinia Shire, Recreational Open Space Strategy (EDAW, October 2000);
- Cardinia Shire Pedestrian and Bicycle Strategy, Actions Report (Parklinks Pty Ltd, May 2003);
- Cardinia Shire, Key Commercial and Industrial Land Uses and the Urban Growth Corridor (Essential Economics, June 2003);
- Pakenham Growth Corridor Provision of District Sporting Reserves Study (EDAW, Aug 2003);
- Landscape Assessment Casey Cardinia Urban Growth Area, Summary Report for Shire of Cardinia, City of Casey and DSE (Land Design Partnership Pty Ltd, July 2004);
- Cardinia Shire Council, Social Planning Framework for Growth Areas 2004 -2030 (Collaborations: Planning with your community Pty Ltd, Sept 2004);
- Cardinia Growth Corridor Sports Strategy (Stratcorp, June 2005);
- Officer Recreation Reserve, Open Space Planning, Indicative Opinion of Probable Costs (Land Design Partnership, September 2005);
- Valuation Reports (Westlink Consulting, December 2007);
- Cardinia Road Rail Crossing, Cardinia Road Underpass Feasibility Report (SKM, Feb 2007);
- Fauna Assessment for the Cardinia Road Precinct Structure Plan, Cardinia Shire (Ecology Partners, Mar 2007);
- Cardinia Urban Growth Area, Retail Review, Final Report (MacroPlan Aust, Mar 2007);
- Cardinia Road Precinct Development Contribution Plan Future Traffic Estimates and Road Infrastructure Requirements (John Piper Traffic Pty Ltd, August 2007, Version 7).

This DCP has been prepared in close consultation with Council officers from relevant departments of the Cardinia Shire Council. Council officers have also provided strategic planning information and advice regarding costs for this DCP where appropriate.

4. Need and Nexus

4.1 Introduction

4.1.1 Need & Nexus

Council has identified a need for each of the community and development infrastructure projects that have been included in this DCP. Council has identified that each item is needed in order to provide for the wellbeing, health and safety of the future community.

The cost apportionment methodology adopted in this DCP relies on the nexus principle. A Cell or a group of Cells within this DCP is deemed to have a nexus with an infrastructure item if the occupants of the Cell are likely to make use of the infrastructure item.

Developers have the option to develop at various dwelling densities within the range specified in the Cardinia Road Precinct Structure Plan. Therefore, in order to fairly levy developers achieving varying densities while maintaining financial certainty for Council, a standard 'per hectare of net developable land' demand unit is used, in respect of development infrastructure.

A standard 'per dwelling' demand unit is used for the assessment of the community infrastructure levy.

For commercial development, a demand unit is calculated by reference to equivalence ratios. The equivalence ratios are specified in Table 6.

The area of land within the Cells of the DCP and projected dwelling yields are outlined in this section.

4.2 Land Budget

Table 1 below shows the budget of allocated land uses for the 6 Cells of the DCP.

A detailed breakdown of this Land Budget and a Land Budget Plan is provided in Appendix A.

Table 1 Cardina Road Precinct DCP Land Budget

	Cell 1 (ha)	Cell 2 ⁽¹⁾ (ha)	Cell 3 (ha)	Cell 4 ⁽²⁾ (ha)	Cell 5 (ha)	Cell 6 (ha)	Total (ha)
Total Area	284.4	121.3	68.8	257.1	147.4	171.8	1,050.8
Encumbered Open Space (ha)	39.0	6.4	6.4	21.6	18.4	9.7	101.5
District Open Space (ha)	16.2	0.0	8.0	34.4	8.0	8.0	74.6
Local Arterial Roads (ha)	8.8	1.5	0.0	2.1	6.0	7.0	25.4
Community Facilities (ha)	3.9	2.2	0.3	9.4	3.9	13.9	33.6
Major Easements (ha)	4.5	3.3	0.0	0.0	0.0	0.0	7.8
Total Deductions	72.4	13.4	14.7	67.5	36.3	38.6	242.9
Net Developable Area	212.0	107.9	54.1	189.6	111.1	133.2	807.9

¹ Excludes Industrial Area (of 39.8 ha)

4.3 Net Developable Area

In the DCP contributions are payable on all Net Developable Area on any given site. For the purpose of this DCP the Net Developable Area of all residential land has been used to determine the development and population projections for the DCP.

The Net Developable Area for residential uses and commercial uses is shown in Table 2.

Table 2 Breakdown of Net Developable Area for Residential and Commercial Uses

	Cell 1 (ha)	Cell 2 ⁽¹⁾ (ha)	Cell 3 (ha)	Cell 4 ⁽²⁾ (ha)	Cell 5 (ha)	Cell 6 (ha)	Total (ha)
Total Net Developable Area (NDA)	212.0	107.9	54.1	189.6	111.1	133.2	807.9
Total Core Business & Peripheral Commercial NDA	0.5	19.2	3.8	9.8	3.7	8.1	45.1
Residential Land	211.5	88.7	50.3	179.8	107.4	125.1	762.8
8% Local Public Open Space of Residential Land	16.9	7.1	4.0	14.4	8.6	10.0	61.0
Total Residential NDA	194.6	81.6	46.3	165.4	98.8	115.1	701.8

¹ Excludes Industrial Area (of 39.8 ha)

² Existing Urban Area

² Existing Urban Area

Levies for commercial uses are to be paid in accordance with the demand unit derived from equivalence ratios. This is explained later in Section 4.6.

4.4 Residential Development & Population Projections

Of the Net Developable Area (807.9 hectares) 701.8 hectares is identified for residential development (Residential Net Developable Area).

The Cardinia Road Precinct Structure Plan provides for a range of lot sizes and housing types to satisfy the needs and aspirations of the community. Three categories of residential development have been defined by the Structure Plan:

- Medium Density
- Standard Density
- Low Density

As a general overview:

- Medium Density is defined as an average of 20 dwellings per hectare.
- Standard Density is defined as an average of 15 dwellings per hectare.
- Low Density is defined as 5 dwellings per hectare. Low density residential development (over 1,000 sq m) is to be provided in areas that have significant slope; contain significant vegetation; are on prominent ridgelines; or, interface with green wedge areas.

Table 3 summarises the projected dwelling yield for the Net Residential Developable Area for each of the Cells based on the density that is expected to be achieved.

Table 3 Projected Residential Development Yield

	Cell 1 (ha)	Cell 2 (ha)	Cell 3 (ha)	Cell 4 (ha)	Cell 5 (ha)	Cell 6 (ha)
Residential Net Developable Area (1)	194.6	81.6	46.3	165.4	98.8	115.1
Low Density Residential (2)	38%	36%	0%	Existing Urban Area	0%	0%
Standard Density Residential (avg 15 dw / ha)	48%	52%	54%		89%	77%
Medium Density Residential (avg 20 dw / ha)	14%	12%	46%		11%	23%

¹ Includes an 8% deduction for local public open space

From the density distribution outlined in Table 3, projections have been made to establish:

- the projected number of lots for each Cell;
- the estimated number of lots per hectare in each Cell; and
- the estimated population of each Cell. This information is outlined in Table 4.

² Low Density Residential Development is confined to Cell 1 and Cell 2, north of the Princes Highway

Table 4 Projected Residential Lots and Population

	Cell 1 ⁽¹⁾	Cell 2 ⁽²⁾	Cell 3	Cell 4 ⁽³⁾	Cell 5	Cell 6	Total
Residential Net Developable Area (4)	194.6	81.6	46.3	165.4	98.8	115.1	701.8
Projected Lots (5)	2321	979	685	2409	1556	1888	9838
Dwellings per ha	11.9	12.0	14.8	14.6	15.7	16.4	14.0
Estimated population (2.8 persons per dwelling) (6)	6499	2741	1918	6745	4357	5286	27546
Estimated % Share of Population (7)	23.6%	10.0%	7.0%	24.5%	15.8%	19.2%	100%

¹ Includes 38% Low Density Lots.

4.5 Commercial Development Projections

A breakdown of the allocation of commercial floor space envisaged within each DCP Cell is shown in Table 5. Commercial floor space is broken into Core Retail and Peripheral Commercial classifications as defined by the Cardinia Road Precinct Structure Plan.

Core Retail includes all premises used for the direct retailing of goods. Peripheral Commercial includes all commercial premises other than retail.

Table 5 Projected Core Retail and Peripheral Commercial Development - Cardinia Road Precinct Cells over DCP timeframe

	Cell 1 (m²)	Cell 2 (m²)	Cell 3 (m²)	Cell 4 (m²)	Cell 5 (m²)	Cell 6 (m²)	Total (m²)
Total Commercial Floor Space	500	25,000	5,000	10,000	500	10,000	51,000
Core Retail Floor Space	350	17,500	3,500	7,000	350	7,000	35,700
Peripheral Commercial Floor Space	150	7,500	1,500	3,000	150	3,000	15,300

4.6 Equivalence Ratios for Commercial Levies

In order to fairly levy the nexus of usage created by commercial land, an equivalence ratio is used, in accordance with the *Development Contributions Guidelines* (2003).

² Includes 36% Low Density Lots.

³ Existing Urban Area.

⁴ Includes an 8% deduction for local public open space.

⁵ Based on the minimum estimate of existing urban development, proposed subdivision layout and estimated development proposed on integrated development sites for Cell 4, 5 dw/ha for low density residential development within Cell 1 and 2, an average 20 dw/ha for medium density locations where an approved Development Plan does not exist, and an average of 15 dw/ha for the balance of the residential land.

⁶ Community Profile, 2001 and 1996 Census Information for Growth Area Region, Profile I.D. (2006).

⁷ Used for apportionment calculation. Percentage is based upon minium projected figure for Cell 4, and the average projected figures for Cells 1, 2, 3, 5 and 6.

Equivalence ratios allow all contributions to be expressed in terms of common demand units across all land use types. The amount of demand units attributable to different land use types are listed in Table 6.

It has been determined that each demand unit is to be equivalent to the demand generated by one hectare of Net Residential Developable Area.

The equivalence ratios that have been adopted for the DCP are consistent with the standard equivalence ratios outlined in the *Development Contributions Guidelines* (2003). The ratios provided in the *Development Contributions Guidelines* (2003), as shown in Table 6, are provided as a 'per dwelling' figure. For the purpose of consistency within this DCP these ratios need to be converted to a 'per hectare' figure. This conversion is undertaken by multiplying the 'per dwelling' figure by the density for residential land that is expected to be achieved per hectare across the DCP area (14 dwellings per hectare, as outlined in Table 4 Projected Residential Lots and Population).

Table 6 Equivalence Ratios

Land Use Type	Demand Unit 'per Dwelling' 1 demand unit equivalent to: (Standard Equivalence Ratio) ⁽¹⁾	Conversion of Demand Unit 'per Hectare' 1 Demand Unit equivalent to: (Standard Equivalence Ratio x 13.3 dwellings per ha)
Residential	1 dwelling	1 hectare of developable land = 1 demand unit for the DCP
Core Retail	19 m² per unit	266.3 m ² of floor space = 1 demand unit for the DCP
Peripheral Commercial	121 m ² per unit	1696.2 m ² of floor space = 1 demand unit for the DCP

¹ Standard Equivalence Ratio published in *Development Contributions Guidelines (2003)*, Department of Sustainability and Environment (2007), available at http://www.dse.vic.gov.au

4.7 Demand Units

The equivalence ratios shown in Table 6 have been applied to the development projections for the DCP in order to determine the equivalent demand units created by each land use category in the DCP area.

Table 7 Demand Units by Land Use

	Cell 1	Cell 2	Cell 3	Cell 4	Cell 5	Cell 6	Total
Residential	194.6	81.6	46.3	165.4	98.8	115.1	701.8
Core Retail	1.3	65.7	13.1	26.3	1.3	26.3	134.1
Peripheral Commercial	0.1	4.4	0.9	1.8	0.1	1.8	9.0
Total	196.0	151.7	60.3	193.5	100.2	143.2	844.9

4.8 Commercial Development - Infrastructure Usage Nexus

Under the *Development Contributions Guidelines (2003)* commercial development may be charged a levy for the nexus of usage generated by these development types.

Under the *Development Contributions Guidelines (2003)* it is determined that commercial development types generate a usage demand nexus for road infrastructure projects only. Therefore these development types will contribute a levy only for the road infrastructure projects within the DCP.

4.9 Other Uses

Where residential land is subdivided into lots that are proposed to be used for a purpose other than a dwelling, a Development Contribution will be levied and must be paid, equivalent to the contribution which would otherwise have been paid if the land had been developed for dwellings. The whole of the land which is subdivided will be assessed on the basis of the demand units for Residential Net Developable Area.

Schools

Non-government schools will be required to pay the DCP levy for development of land as if they were residential development.

This is considered a fair way of levying non-government schools as information in respect of the location of schools, land areas involved and student numbers are not available at the time of preparing the DCP.

Non-government schools are commercial enterprises which require, and create nexus with, infrastructure to a level that is at least equal to residential development. Therefore it is only fair that schools contribute a levy under the DCP as residential development does.

5. Infrastructure Items to be Funded by DCP

5.1 Distinction Between Community and Development Infrastructure

In accordance with the *Planning and Environment Act 1987* and the Minister's Direction on Development Contributions, the DCP is required to make a distinction between "development" and "community" infrastructure.

Items of infrastructure of a community or social nature are to be classified as community infrastructure, whilst all other infrastructure required under the DCP is classified as development infrastructure.

Contributions relating to community infrastructure are to be made by the land owner at the time of building approval. Contributions relating to community infrastructure will be paid for at a "per-dwelling" rate. The *Planning and Environment Act 1987* stipulates that the amount that may be contributed under a community infrastructure levy is no more than \$900 for each dwelling.

Contributions relating to development infrastructure are to be made by developers at the time of subdivision. Contributions relating to development infrastructure will be paid at a per-hectare of Net Residential Developable Area rate in respect of the subdivision of residential land. For commercial development, the development levy will be paid in respect of a demand unit based on the equivalence ratios for Core Retail and Peripheral Commercial development (See Table 6 Equivalence Ratios).

5.2 External Demand

The strategic planning undertaken to determine the requirement for infrastructure items within the DCP area has identified that many of the infrastructure items within the DCP generate usage demand from outside the DCP area.

A portion of this external demand will arise from land to be developed within the Officer Structure Plan area to the west. In order to fairly apportion the cost of these items, contributions for these items will be identified in the Officer Development Contributions Plan where appropriate when the Officer Development Contributions Plan is prepared, completed and approved.

In all other cases where there is external demand not recovered by a DCP, funds will be sought from alternative sources, including general rates collected by council, and Federal and State government funding.

5.3 Community Infrastructure Items

Strategic planning undertaken by the Cardinia Shire Council has identified a requirement for 6 community infrastructure items. These community infrastructure items can be divided into 2 infrastructure categories, being:

- · Community Facilities
- District / Neighbourhood Active Open Space

The project number, description, cost, catchment area, provision period and strategic justification for each of these Community Infrastructure items has been summarised in Table 8 Infrastructure Project Justification – Community Infrastructure.

Further detail on each of these projects can be found in Table 10 Calculation of Contributions, Table 11 Cost Contribution by Cell – Community Infrastructure Items and Appendix C DCP Infrastructure Project Sheets.

The location of each project is shown on maps in Section 5.6 of this document.

5.4 Development Infrastructure Items

Strategic planning undertaken by the Cardinia Shire Council has identified a requirement for 108 development infrastructure items. These development infrastructure items can be divided into 7 infrastructure categories, being:

- Community Facilities
- · District / Neighbourhood Active Open Space
- District Passive Open Space
- Local Open Space
- Open Space Landscaping and Rehabilitation
- · Roads and Intersections
- Public Transport
- Off Road Pedestrian & Cycle Network

The project number, description, cost, catchment area, provision period and strategic justification for each of these items Development Infrastructure items has been summarised in Table 9 Infrastructure Project Justification – Development Infrastructure.

Further detail on each of these projects can be found in Table 10 calculation of Contributions, Table 12 Cost Calculation of Contributions by Cell – Development Infrastructure Items and Appendix C DCP Infrastructure Project Sheets.

The location of each project is shown on maps in Section 5.6 of this document.

5.5 Infrastructure Project Justification

Table 8 Infrastructure Project Justification – Community Infrastructure

TABLE 8 : IN	TABLE 8 : INFRUSTRUCTURE PROJECT JUSTIFICATION – COMMUNITY INFRASTRUCTURE								
Project No	Project Description	Estimated Total Cost	Main Catchment Area (MCA) Determination	Provision Period	Strategic Justification				
Community F	Community Facilities - Construction								
CI_CF_1	Library (Outside MCA)	\$7,270,769	60% external apportionment to the Officer DCP area. Remaining 40% apportioned evenly across DCP area in accordance with the projected dwelling yield of each cell. The item is likely to be used by residents of the Cardinia Rd & Officer SP areas.	2018 - 2023	The project is required to provide adequate community facilities to the new community.				
CI_CF_2	Community Centre (Community Meeting Place) - Henry Road (east)	\$3,956,625	Apportioned evenly across DCP area in accordance with the projected dwelling yield of each cell. The item is likely to be used by residents of the entire DCP area.	2013 - 2018	The project is required to provide adequate community facilities to the new community.				
District / Neig	ghbourhood Active Open Space - Construction	on							
CI_OS_1	District Sports Reserve - Princes Highway / Gum Scrub Creek	\$1,974,768	Apportioned evenly across DCP area in accordance with the projected dwelling yield of each cell. The item is likely to be used by residents of the entire DCP area.	2008 - 2013	This project is required to provide adequate active recreation facilities for the new community.				
CI_OS_2	District Sports Reserve - Henry Road (east)	\$2,191,329	Apportioned evenly across DCP area in accordance with the projected dwelling yield of each cell. The item is likely to be used by residents of the entire DCP area.	2013 - 2018	This project is required to provide adequate active recreation facilities for the new community.				
CI_OS_3	District Sports Reserve - Henry Road (west) / Gum Scrub Creek	\$2,853,703	Apportioned evenly across DCP area in accordance with the projected dwelling yield of each cell. The item is likely to be used by residents of the entire DCP area.	2011 - 2016	This project is required to provide adequate active recreation facilities for the new community.				
CI_OS_4	Neighbourhood Sports Reserve - Cardinia Road / Shearwater Drive	\$942,798	Apportioned evenly to Cells 3&4 in accordance with the projected dwelling yield of each cell. The item is likely to be used equally by residents of both cells.	2008 - 2013	This project is required to provide adequate active recreation facilities for the new community.				

 Table 9
 Infrastructure Project Justification – Development Infrastructure

TABLE 9 : INF	RUSTRUCTURE PROJECT JUSTIFICATION	- DEVELOPMEN	NT INFRASTRUCTURE		
Project No	Project Description	Estimated Total Cost	Main Catchment Area (MCA) Determination	Provision Period	Strategic Justification
Community F	acilities - Construction				
DI_CF_1	Community Centre (Children's Services) - Thewlis Road	\$2,665,860	Apportioned evenly to Cells 1,2,3,5&6 in accordance with the projected dwelling yield of each cell. The item forms part of a network of similar items within the DCP area. A similar item has already been provided in Cell 4.	2013 - 2018	The project is required to provide adequate community facilities to the new community.
DI_CF_2	Community Centre (Children's Services) - Henry Road (east)	\$2,665,860	Apportioned evenly to Cells 1,2,3,5&6 in accordance with the projected dwelling yield of each cell. The item forms part of a network of similar items within the DCP area. A similar item has already been provided in Cell 4.	2013 - 2018	The project is required to provide adequate community facilities to the new community.
DI_CF_3	Community Centre (Children's Services) - Henry Road (west)	\$2,665,860	Apportioned evenly to Cells 1,2,3,5&6 in accordance with the projected dwelling yield of each cell. The item forms part of a network of similar items within the DCP area. A similar item has already been provided in Cell 4.	2013 - 2018	The project is required to provide adequate community facilities to the new community.
DI_CF_4	Community Centre (Youth Services) - District Sports Reserve (Henry Road (east))	\$2,145,838	Apportioned evenly across DCP area in accordance with the projected dwelling yield of each cell. The item is likely to be used by residents of the entire DCP area.	2018 - 2023	The project is required to provide adequate community facilities to the new community.
DI_CF_5	Community Centre (Children's Services) - Princes Highway / Cardinia Road NAC	\$2,128,003	Apportioned evenly to Cells 1,2,3,5&6 in accordance with the projected dwelling yield of each cell. The item forms part of a network of similar items within the DCP area. A similar item has already been provided in Cell 4.	2018 - 2023	The project is required to provide adequate community facilities to the new community.
Off-Road Ped	estrian & Cycle Network - Construction				
DI_TR_1	Shared Path - South side of Princes Highway	\$413,877	Apportioned to Cell 4. The item is likely to be used by residents of Cell 4 only.	2008 - 2013	The project provides the new community with a safe and efficient trail network along the PPTN.
DI_TR_2	Shared Path - South side of Princes Highway	\$290,152	Apportioned to Cell 3. The item is likely to be used by residents of Cell 3 only.	2008 - 2013	The project provides the new community with a safe and efficient trail network along the PPTN.
DI_TR_3	Shared Path - North side of Princes Highway	\$275,268	Apportioned to Cell 2. The item is likely to be used by residents of Cell 2 only.	2013 - 2018	The project provides the new community with a safe and efficient trail network along the PPTN.
DI_TR_4	Shared Path - North side of Princes Highway	\$496,816	Apportioned to Cell 1. The item is likely to be used by residents of Cell 1 only.	2013 - 2018	The project provides the new community with a safe and efficient trail network along the PPTN.
DI_TR_5	Pedestrian Bridge over Toomuc Creek Network (north of Princes Highway)	\$136,864	This item is likely to be used by both the residents of Cell 2 and the community directly to the east of the cell 2 boundary (external to the MCA).	2018 - 2023	The project provides the new community with safe and efficient access along the Creek/Open Space corridor, including across Toomuc Creek.

TABLE 9 : INI	FRUSTRUCTURE PROJECT JUSTIFICATION	- DEVELOPMEN	NT INFRASTRUCTURE		
Project No	Project Description	Estimated Total Cost	Main Catchment Area (MCA) Determination	Provision Period	Strategic Justification
DI_TR_6	Shared Path - Along Toomuc Creek (south of Princes Highway)	\$280,434	Apportioned to Cell 6. The item is likely to be used by residents of Cell 6 only.	2008 - 2013	The project provides the new community with safe and efficient access along the Creek/Open Space corridor.
DI_TR_7	Shared Path - Along Toomuc Creek (north of Mulcahy Road)	\$145,350	Apportioned to Cell 2. The item is likely to be used by residents of Cell 2 only.	2018 - 2023	The project provides the new community with a safe and efficient network along the Creek/Open Space corridor.
DI_TR_8	Pedestrian Rail Underpass - Along Toomuc Creek	\$1,390,500	This item is likely to be used equally by both the residents of Cells 4 & 6.	2008 - 2013	The project provides the new community with safe and efficient access along the Creek/Open Space corridor, including access under the rail line.
DI_TR_9a	Shared Path - along Gum Scrub Creek (south of Princes Highway)	\$132,895	Apportioned to Cell 3. The item is likely to be used by residents of Cell 3 only.	2008 - 2013	The project provides the new community with safe and efficient access along the Creek/Open Space corridor.
DI_TR_9b	Shared Path - Along Gum Scrub Creek (south of Princes Highway)	\$289,673	Apportioned to Cell 5. The item is likely to be used by residents of Cell 5 only.	2013 - 2018	The project provides the new community with safe and efficient access along the Creek/Open Space corridor.
DI_TR_10	Shared Path - Along Gum Scrub & Quirks Creek (north of Princes Highway)	\$354,553	Apportioned to Cell 1. The item is likely to be used by residents of Cell 1 only.	2018 - 2023	The project provides the new community with safe and efficient access along the Creek/Open Space corridor.
DI_TR_11	Pedestrian Rail Underpass - east of Cardinia Road (connection between Delfin and community south of railway line)	\$1,390,500	This item is likely to be used equally by both the residents of Cells 4 & 6.	2008 - 2013	The project provides the new community with safe and efficient access along the Creek/Open Space corridor.
DI_TR_12	Pedestrian Rail Underpass - Along Gum Scrub Creek	\$1,390,500	This item is likely to be used equally by both the residents of Cells 3 & 5.	2013 - 2018	The project provides the new community with safe and efficient access along the Creek/Open Space corridor.
DI_TR_13	Pedestrian Bridge over Toomuc Creek (between railway line and Freeway)	\$253,500	This item is likely to be used equally by both the residents of Cell 6 and the community directly to the east of the cell 6 boundary	2013 - 2018	The project provides the new community with safe and efficient access along the Creek/Open Space corridor.
DI_TR_14	Shared Path - Along Pakenham Bypass, between Gum Scrub Creek & Toomuc Creek	\$1,513,663	Apportioned evenly to Cells 5&6 in accordance with the projected dwelling yield of each cell. The item is likely to be used equally by residents of both cells.	2013 - 2018	The project provides the new community with safe and efficient access along the Creek/Open Space corridor.
Roads and In	tersections - Land				
DI_LA_1	Land required for Cardinia Road Duplication (from Princes Highway to Shearwater Drive)	\$785,531	Cost apportionment based upon CRPDCP Future Traffic Estimates & Road Infrastructure Requirements (Rev 4) report, John Piper Traffic Pty Ltd / Ashton Traffic Pty Ltd, April 2008 (point 'N')	2008 - 2013	This project is required to provide for the orderly and proper development of the area and ensures traffic growth is directed to the arterial road network.

TABLE 9 : INF	ABLE 9: INFRUSTRUCTURE PROJECT JUSTIFICATION - DEVELOPMENT INFRASTRUCTURE							
Project No	Project Description	Estimated Total Cost	Main Catchment Area (MCA) Determination	Provision Period	Strategic Justification			
DI_LA_2	Land required for Cardinia Road Duplication & Grade Separated Crossing	\$2,476,094	Cost apportionment based upon CRPDCP Future Traffic Estimates & Road Infrastructure Requirements (Rev 4) report, John Piper Traffic Pty Ltd / Ashton Traffic Pty Ltd, April 2008 (point 'O')	2008 - 2013	This project is required to provide for the orderly and proper development of the area and ensures traffic growth is directed to the arterial road network.			
DI_LA_3	Land required for Cardinia Road Duplication (from Henry Road extension to Pakenham Bypass)	\$366,982	Cost apportionment based upon CRPDCP Future Traffic Estimates & Road Infrastructure Requirements (Rev 4) report, John Piper Traffic Pty Ltd / Ashton Traffic Pty Ltd, April 2008 (point 'P')	2008 - 2013	This project is required to provide for the orderly and proper development of the area and ensures traffic growth is directed to the arterial road network.			
DI_LA_4a	Land required for Henry Road extension (east of Cardinia Road) (Stage 1)	\$815,556	Apportioned to Cell 6. The item is likely to be used by residents of Cell 6 only and provides a landscaped boulevard that will enhance the amenity of Cell 6.	2008 - 2013	This project is required to provide for the orderly and proper development of the area and ensures traffic growth is directed to the local arterial road network.			
DI_LA_4b	Land required for Henry Road extension (east of Cardinia Road) (Stage 2)	\$1,036,371	Apportioned to Cell 6. The item is likely to be used by residents of Cell 6 only.	2008 - 2013	This project is required to provide for the orderly and proper development of the area and ensures traffic growth is directed to the local arterial road network.			
DI_LA_5a	Land required for Henry Road extension (west of Cardinia Road) (Stage 1)	\$872,666	Apportioned to Cell 5. The item is likely to be used by residents of Cell 5 only.	2008 - 2013	This project is required to provide for the orderly and proper development of the area and ensures traffic growth is directed to the local arterial road network.			
DI_LA_5b	Land required for Henry Road extension (west of Cardinia Road) (Stage 2)	\$269,209	Apportioned to Cell 5. The item is likely to be used by residents of Cell 5 only.	2008 - 2013	This project is required to provide for the orderly and proper development of the area and ensures traffic growth is directed to the local arterial road network.			
DI_LA_6	Land required for northern East West Road (west of Cardinia Road extension)	\$269,209	Apportioned to Cell 1. The item is likely to be used by residents of Cell 1 only.	2018 - 2023	This project is required to provide for the orderly and proper development of the area and ensures traffic growth is directed to the local arterial road network.			
DI_LA_7	Land required for northern East West Road (east of Cardinia Road extension)	\$392,174	Apportioned to Cell 1. The item is likely to be used by residents of Cell 1 only.	2008 - 2013	This project is required to provide for the orderly and proper development of the area and ensures traffic growth is directed to the local arterial road network.			
DI_LA_8	Land required for Cardinia Road extension (northern link)	\$91,125	Apportioned to Cell 1. The item is likely to be used by residents of Cell 1 only.	2008 - 2013	This project is required to provide for the orderly and proper development of the area and ensures traffic growth is directed to the local arterial road network.			
DI_LA_9	Land required for road widening of Thewlis Road (10 m)	\$780,200	Apportioned to the area north of the Princes Highway (Cells 1&2) in accordance with the projected dwelling yield of each cell. The item is likely to be used equally by residents of both cells.	2008 - 2013	This project is required to provide for the orderly and proper development of the area and ensures traffic growth is directed to the local arterial road network.			

Project No	Project Description	Estimated Total Cost	Main Catchment Area (MCA) Determination	Provision Period	Strategic Justification
DI_LA_10a	Land required for Lakeside Drive extension (northern link) (Stage 1)	\$229,501	Apportioned to Cell 2. The item is likely to be used by residents of Cell 2 only.	2008 - 2013	This project is required to provide for the orderly and proper development of the area and ensures traffic growth is directed to the local arterial road network.
DI_LA_10b	Land required for Lakeside Drive extension (northern link) (Stage 2)	\$439,194	Apportioned to Cell 2. The item is likely to be used by residents of Cell 2 only.	2008 - 2013	This project is required to provide for the orderly and proper development of the are and ensures traffic growth is directed to the local arterial road network.
Public Transp	ort - Land				
DI_LA_11	Land required for Railway Station & carparking	\$1,666,526	Apportioned evenly to Cells 1,2,3,5&6 in accordance with the projected dwelling yield of each cell. This item is likely to be used by residents of the entire DCP area. An equivalent item has already been provided in Cell 4.	2008 - 2013	This project seeks to achieve a reduced dependence on car use through the provision of a new station and suburban rai service along the Pakenham railway line.
District / Neigl	nbourhood Active Open Space - Land				
DI_LA_12	Land required for District Sports Reserve - Henry Road (east)	\$3,600,000	Apportioned evenly across DCP area in accordance with the projected dwelling yield of each cell. The item is likely to be used by residents of the entire DCP area.	2008 - 2013	This project is required to provide adequat active recreation facilities for the new community.
DI_LA_13	Land required for District Sports Reserve - Henry Road (west) / Gum Scrub Creek	\$3,589,448	Apportioned evenly across DCP area in accordance with the projected dwelling yield of each cell. The item is likely to be used by residents of the entire DCP area.	2008 - 2013	This project is required to provide adequate active recreation facilities for the new community.
District Passiv	re Open Space - Land				
DI_LA_14	Land required for District Parkland - north of Princes Highway	\$5,335,000	Apportioned evenly to Cells 1,2,3,5&6 in accordance with the projected dwelling yield of each cell. This item is likely to be used by residents of the entire DCP area. An equivalent item has already been provided in Cell 4.	2008 - 2013	The project incorporates the ridgeline and prominent hilltop to the east of Gum Scrut Creek north of the Princes Highway into district parkland along the Gum Scrub Cree
Community Fa	acilities - Land				
DI_LA_15	Land required for Community Centre (Children's Services) - Thewlis Road	\$178,667	Apportioned evenly to Cells 1,2,3,5&6 in accordance with the projected dwelling yield of each cell. The item forms part of a network of similar items within the DCP area. A similar item has already been provided in Cell 4.	2008 - 2013	The project is required to provide adequate community facilities to the new community
DI_LA_16	Land required for Community Centre (Children's Services) - Henry Road (east)	\$416,632	Apportioned evenly to Cells 1,2,3,5&6 in accordance with the projected dwelling yield of each cell. The item forms part of a network of similar items within the DCP area. A similar item has already been provided in Cell 4.	2008 - 2013	The project is required to provide adequate community facilities to the new community
DI_LA_17	Land required for Community Centre (Community Meeting Place) - Henry Road (east)	\$416,632	Apportioned evenly across DCP area in accordance with the projected dwelling yield of each cell. The item is likely to be used by residents of the entire DCP area.	2008 - 2013	The project is required to provide adequate community facilities to the new community

TABLE 9: INFRUSTRUCTURE PROJECT JUSTIFICATION - DEVELOPMENT INFRASTRUCTURE						
Project No	Project Description	Estimated Total Cost	Main Catchment Area (MCA) Determination	Provision Period	Strategic Justification	
DI_LA_18	Land required for Community Centre (Children's Services) - Henry Road (west)	\$179,472	Apportioned evenly to Cells 1,2,3,5&6 in accordance with the projected dwelling yield of each cell. The item forms part of a network of similar items within the DCP area. A similar item has already been provided in Cell 4.	2013 - 2018	The project is required to provide adequate community facilities to the new community.	
DI_LA_19	Land required for Library (Outside MCA)	\$540,000	Apportioned evenly across DCP area in accordance with the projected dwelling yield of each cell. The item is likely to be used by residents of the entire DCP area.	2018 - 2023	The project is required to provide adequate facilities to the new community.	
DI_LA_20	Land required for Community Centre (Children's Services) - Princes Highway / Cardinia Road NAC	\$150,000	Apportioned evenly to Cells 1,2,3,5&6 in accordance with the projected dwelling yield of each cell. The item forms part of a network of similar items within the DCP area. A similar item has already been provided in Cell 4.	2008 - 2013	The project is required to provide adequate facilities to the new community.	
Local Open S	pace - Construction					
DI_OS_1a	Local Park Improvements (Stage 1) - north of Princes Highway	\$264,332	Apportioned to Cell 1. The item is likely to be used by residents of Cell 1 only.	2008 - 2013	This project is required to provide adequate active recreation facilities for the new community.	
DI_OS_1b	Local Park Improvements (Stage 2) - north of Princes Highway	\$132,166	Apportioned to Cell 1. The item is likely to be used by residents of Cell 1 only.	2013 - 2018	This project is required to provide adequate active recreation facilities for the new community.	
DI_OS_1c	Local Park Improvements (Stage 3) - north of Princes Highway	\$264,332	Apportioned in accordance with the overall number of items to be located in each cell. Items are likely to be used by residents of the cell they are located within.	2018 - 2023	This project is required to provide adequate active recreation facilities for the new community.	
DI_OS_2a	Local Park Improvements (Stage 1) - South of Princes Highway	\$396,498	Apportioned in accordance with the overall number of items to be located in each cell. Items are likely to be used by residents of the cell they are located within.	2008 - 2013	This project is required to provide adequate active recreation facilities for the new community.	
DI_OS_2b	Local Park Improvements (Stage 2) - south of Princes Highway	\$528,664	Apportioned in accordance with the overall number of items to be located in each cell. Items are likely to be used by residents of the cell they are located within.	2008 - 2013	This project is required to provide adequate active recreation facilities for the new community.	
Open Space L	Landscaping & Rehabilitation - Construction					
DI_OS_3a	Quirks Creek Retarding Basin - Rehabilitation and Conservation (Stage 1)	\$4,901,710	Apportioned evenly across Cells 1, 3 and 5 (in accordance with projected dwelling yield). Although the retarding basin is in an encumbered area within Cell 1, the provision of the basin reduces the drainage constraints of Cell 3 and 5. This area is also likely to be used by the residents within Cell 1, 3 and 5 as it is linked via the trail network adjacent to gum scrub creek.	2008 - 2013	This project allows for the further enhancement of a Melbourne Water retarding basin.	

TABLE 9: INFRUSTRUCTURE PROJECT JUSTIFICATION - DEVELOPMENT INFRASTRUCTURE							
Project No	Project Description	Estimated Total Cost	Main Catchment Area (MCA) Determination	Provision Period	Strategic Justification		
DI_OS_3b	Quirks Creek Retarding Basin - Rehabilitation and Conservation (Stage 2)	\$987,058	Apportioned evenly across Cells 1, 3 and 5 (in accordance with projected dwelling yield). Although the retarding basin is in an encumbered area within Cell 1, the provision of the basin reduces the drainage constraints of Cell 3 and 5. This area is also likely to be used by the residents within Cell 1, 3 and 5 as it is linked via the trail network adjacent to gum scrub creek.	2013 - 2018	This project allows for the further enhancement of a Melbourne Water retarding basin.		
DI_OS_4a	Landscaping & Environmental Works along Gum Scrub Creek Corridor - Princes Highway to Railway Reserve	\$177,870	Apportioned to Cell 3. The item is likely to be used by residents of Cell 3 only.	2008 - 2013	This project allows for the protection and rehabilitation of the flora and fauna habitat along the existing creek/open space network.		
DI_OS_4b	Landscaping & Environmental Works along Gum Scrub Creek Corridor - Railway reserve to Bypass	\$409,101	Apportioned to Cell 5. The item is likely to be used by residents of Cell 5 only.	2013 - 2018	This project allows for the protection and rehabilitation of the flora and fauna habitat along the existing creek/open space network.		
DI_OS_5a	Landscaping & Environmental Works along Gum Scrub Creek Corridor - East-West Road to Peck Road	\$293,422	Apportioned to Cell 1. The item is likely to be used by residents of Cell 1 only.	2013 - 2018	This project allows for the protection and rehabilitation of the flora and fauna habitat along the existing creek/open space network.		
DI_OS_5b	Landscaping & Environmental Works along Quirks Creek Corridor - East-West Road to Peck Road	\$119,109	Apportioned to Cell 1. The item is likely to be used by residents of Cell 1 only.	2013 - 2018	This project allows for the protection and rehabilitation of the flora and fauna habitat along the existing creek/open space network.		
DI_OS_6	Landscaping & Environmental Works along Toomuc Creek - Railway Reserve to Bypass	\$902,509	Apportioned to Cell 6. The item is likely to be used by residents of Cell 6 only.	2008 - 2013	This project allows for the protection and rehabilitation of the flora and fauna habitat along the existing creek/open space network.		
DI_OS_7	Landscaping & Environmental Works along Toomuc Creek - Mulcahy Road to Brown Road	\$417,828	Apportioned to Cell 2. The item is likely to be used by residents of Cell 2 only.	2018 - 2023	This project allows for the protection and rehabilitation of the flora and fauna habitat along the existing creek/open space network.		
DI_OS_8a **	District Parkland - Rehabilitation and Conservation (Stage 1) - north of Princes Highway	\$1,444,135	Apportioned evenly to Cells 1,2,3,5&6 in accordance with the projected dwelling yield of each cell. This item is likely to be used by residents of the entire DCP area. An equivalent item has already been provided in Cell 4.	2008 - 2013	This project allows for passive recreation within a protected and rehabilitated flora and fauna habitat.		
DI_OS_8b **	District Parkland - Rehabilitation and Conservation (Stage 2) - north of Princes Highway	\$790,735	Apportioned evenly to Cells 1,2,3,5&6 in accordance with the projected dwelling yield of each cell. This item is likely to be used by residents of the entire DCP area. An equivalent item has already been provided in Cell 4.	2013 - 2018	This project allows for passive recreation within a protected and rehabilitated flora and fauna habitat.		
DI_OS_8c **	District Parkland - Rehabilitation & Conservation (Stage 3) - north of Princes Highway	\$1,339,773	Apportioned evenly to Cells 1,2,3,5&6 in accordance with the projected dwelling yield of each cell. This item is likely to be used by residents of the entire DCP area. An equivalent item has already been provided in Cell 4.	2018 - 2023	This project allows for passive recreation within a protected and rehabilitated flora and fauna habitat.		

Project No	Project Description	Estimated Total Cost	Main Catchment Area (MCA) Determination	Provision Period	Strategic Justification
DI_OS_9	Landscaping & Environmental Works along Gum Scrub and Quirks Creek Corridor - north of Princes Highway	\$3,016,833	Apportioned evenly across Cell 1, 3 and 5 (in accordance with projected dwelling yield). Although the area is within Cell 1, this area is likely to be used by the residents within Cell 1, 3 and 5 as it is linked via the trail network adjacent to Gum Scrub Creek.	2013 - 2018	This project allows for the protection and rehabilitation of the flora and fauna habitat along the existing creek / open space network
District / Neig	hbourhood Active Open Space - Constructio	n			
DI_OS_10	District Sports Reserve - Princes Highway / Gum Scrub Creek	\$1,760,526	Apportioned evenly across DCP area in accordance with the projected dwelling yield of each cell. The item is likely to be used by residents of the entire DCP area.	2008 - 2013	This project is required to provide adequate active recreation facilities for the new community.
DI_OS_11	District Sports Reserve - Henry Road (east)	\$1,505,748	Apportioned evenly across DCP area in accordance with the projected dwelling yield of each cell. The item is likely to be used by residents of the entire DCP area.	2013 - 2018	This project is required to provide adequate active recreation facilities for the new community.
DI_OS_12	District Sports Reserve - Henry Road (west) / Gum Scrub Creek	\$1,098,104	Apportioned evenly across DCP area in accordance with the projected dwelling yield of each cell. The item is likely to be used by residents of the entire DCP area.	2013 - 2018	This project is required to provide adequat active recreation facilities for the new community.
DI_OS_13	Neighbourhood Sports Reserve - Cardinia Road / Shearwater Drive	\$179,625	Apportioned evenly to Cells 3&4 in accordance with the projected dwelling yield of each cell. The item is likely to be used equally by residents of both cells.	2013 - 2018	This project is required to provide adequat active recreation facilities for the new community.
Public Trans	oort - Construction				
DI_PT_1a	Bus Stop Facilities - Princes Highway PPTN (north of Princes Highway)	\$133,990	Apportioned in accordance with the overall number of items to be located in each cell	2013 - 2018	This project provides public transport facilities at an early stage in the developme of the Cardinia Road precinct to provide greater opportunity for the use of public transport as an alternative to car use.
DI_PT_1b	Bus Stop Facilities - Princes Highway PPTN (south of Princes Highway)	\$133,990	Apportioned in accordance with the overall number of items to be located in each cell	2013 - 2018	This project provides public transport facilities at an early stage in the developme of the Cardinia Road precinct to provide greater opportunity for the use of public transport as an alternative to car use.
DI_PT_2a	Bus Stop Facilities - Local Network (north of Princes Highway) (Stage 1)	\$31,205	Apportioned to Cell 1. The item is likely to be used by residents of Cell 1 only.	2008 - 2013	This project provides public transport facilities at an early stage in the developme of the Cardinia Road precinct to provide greater opportunity for the use of public transport as an alternative to car use.

Project No	Project Description	Estimated Total Cost	Main Catchment Area (MCA) Determination	Provision Period	Strategic Justification
DI_PT_2b	Bus Stop Facilities - Local Network (north of Princes Highway) (Stage 3)	\$10,402	Apportioned to Cell 1. The item is likely to be used by residents of Cell 1 only.	2018 - 2023	This project provides public transport facilities at an early stage in the developmen of the Cardinia Road precinct to provide greater opportunity for the use of public transport as an alternative to car use.
DI_PT_3	Bus Stop Facilities - Local Network (north of Princes Highway) (Stage 3)	\$10,402	Apportioned to Cell 2. The item is likely to be used by residents of Cell 2 only.	2018 - 2023	This project provides public transport facilities at an early stage in the developmen of the Cardinia Road precinct to provide greater opportunity for the use of public transport as an alternative to car use.
DI_PT_4	Bus Stop Facilities - Local Network (south of Princes Highway) (Stage 1)	\$20,803	Apportioned to Cell 3. The item is likely to be used by residents of Cell 3 only.	2008 - 2013	This project provides public transport facilities at an early stage in the developmer of the Cardinia Road precinct to provide greater opportunity for the use of public transport as an alternative to car use.
DI_PT_5	Bus Stop Facilities - Local Network (south of Princes Highway) (Stage 2)	\$20,803	Apportioned to Cell 4. The item is likely to be used by residents of Cell 4 only.	2013 - 2018	This project provides public transport facilities at an early stage in the developmer of the Cardinia Road precinct to provide greater opportunity for the use of public transport as an alternative to car use.
DI_PT_6	Bus Stop Facilities - Local Network (south of railway line) (Stage 2)	\$31,205	Apportioned to Cell 5. The item is likely to be used by residents of Cell 5 only.	2013 - 2018	This project provides public transport facilities at an early stage in the developmer of the Cardinia Road precinct to provide greater opportunity for the use of public transport as an alternative to car use.
DI_PT_7	Bus Stop Facilities - Local Network (south of railway line) (Stage 1)	\$41,607	Apportioned to Cell 6. The item is likely to be used by residents of Cell 6 only and provides a landscaped boulevard that will enhance the amenity of Cell 6.	2008 - 2013	This project provides public transport facilities at an early stage in the developmer of the Cardinia Road precinct to provide greater opportunity for the use of public transport as an alternative to car use.
Roads and Int	ersections - Construction				
DI_RO_1	Road Construction - Cardinia Road Duplication (from Princes Highway to Shearwater Drive)	\$1,956,813	Cost apportionment based upon CRPDCP Future Traffic Estimates & Road Infrastructure Requirements (Rev 7) report, John Piper Traffic Pty Ltd / Ashton Traffic Pty Ltd, April 2008 (point 'N')	2008 - 2013	This project is required to provide for the orderly and proper development of the area and ensures traffic growth is directed to the arterial road network.
DI_RO_2a	Road Construction - Cardinia Road Duplication (from Shearwater Drive to Henry Road extension)	\$2,596,242	Cost apportionment based on CRPDCP Future Traffic Estimates & Road Infrastructure Requirements (Rev 7) report, John Piper Traffic Pty Ltd / Ashton Traffic Pty Ltd, April 2008. (point 'O')	2008 - 2013	This project is required to provide for the orderly and proper development of the area and ensures traffic growth is directed to the arterial road network.

TABLE 9: INF	RUSTRUCTURE PROJECT JUSTIFICATION	- DEVELOPMEN	IT INFRASTRUCTURE		
Project No	Project Description	Estimated Total Cost	Main Catchment Area (MCA) Determination	Provision Period	Strategic Justification
DI_RO_2b	Grade Separated Crossing (railway line)	\$7,306,221	Cost apportionment based on CRPDCP Future Traffic Estimates & Road Infrastructure Requirements (Rev 7) report, John Piper Traffic Pty Ltd / Ashton Traffic Pty Ltd, April 2008. (point 'O')	2013 - 2018	This project is required to provide for the orderly and proper development of the area and ensures traffic growth is directed to the arterial road network.
DI_RO_2c*	Pedestrian Bridge adjacent to rail bridge.	\$235,827	The requirement for this item is shared equally by the residents of Cells 3, 4 & 6.	2013 - 2018	The project provides the new community with a safe and efficient pedestrian network to and from the Neighbourhood Activity Centre and Train Station.
DI_RO_2d	Road Bridge adjacent to rail bridge.	\$3,684,800	The requirement for this item is shared equally by the residents of Cells 5 & 6.	2013 - 2018	This project is required to provide for the orderly and proper development of the area and ensures traffic growth is directed to the arterial road network.
DI_RO_3	Road Construction - Cardinia Road Duplication (6 lane divided carriageway) (from Henry Road extension to Pakenham Bypass)	\$736,363	Cost apportionment based on CRPDCP Future Traffic Estimates & Road Infrastructure Requirements (Rev 7) report, John Piper Traffic Pty Ltd / Ashton Traffic Pty Ltd, August 2007 (point 'P')	2013 - 2018	This project is required to provide for the orderly and proper development of the area and ensures traffic growth is directed to the arterial road network.
DI_RO_4	Street Lighting - south side Princes Highway from Lakeside Blvd to Gum Scrub Creek	\$574,860	Apportioned to the area between Lakeside Blvd to Gum Scrub Creek in accordance with the length of the street lighting in each cell. The item is likely to be used by the residents within Cells 3 and 4.	2008 - 2013	The project provides for a safe environment for the new community.
DI_RO_5	Street Lighting - north side Princes Highway from Lakeside Blvd extension to Gum Scrub Creek	\$574,829	Apportioned to the area between Lakeside Blvd extension to Gum Scrub Creek in accordance with the length of the street lighting in each cell. The item is likely to be used by the residents within Cells 1 and 2.	2008 - 2013	The project provides for a safe environment for the new community.
DI_RO_6a	Road Construction - Henry Road extension (east of Cardinia Road) (Stage 1)	\$1,088,370	Apportioned to Cell 6. The item is likely to be used by residents of Cell 6 only and provides a landscaped boulevard that will enhance the amenity of Cell 6.	2008 - 2013	This project is required to provide for the orderly and proper development of the area and ensures traffic growth is directed to the arterial road network.
DI_RO_6b	Road Construction - Henry Road extension (east of Cardinia Road) (Stage 2)	\$1,382,355	Apportioned to Cell 6. The item is likely to be used by residents of Cell 6 only.	2008 - 2013	This project is required to provide for the orderly and proper development of the area and ensures traffic growth is directed to the arterial road network.
DI_RO_7	Road Bridge Construction - Henry Road over Toomuc Creek	\$1,695,890	This item is likely to be used equally by both the residents of Cell 6 and the community directly to the east of the cell 6 boundary	2008 - 2013	This project is required to provide for the orderly and proper development of the area and ensures traffic growth is directed to the arterial road network.

Project No	Project Description	Estimated Total Cost	Main Catchment Area (MCA) Determination	Provision Period	Strategic Justification
DI_RO_8a	Road Construction - Henry Road extension (west of Cardinia Road) (Stage 1)	\$1,560,000	Apportioned to Cell 5. The item is likely to be used by residents of Cell 5 only.	2008 - 2013	This project is required to provide for the orderly and proper development of the area and ensures traffic growth is directed to the arterial road network.
DI_RO_8b	Road Construction - Henry Road extension (west of Cardinia Road) (Stage 2)	\$910,000	Apportioned to Cell 5. The item is likely to be used by residents of Cell 5 only.	2008 - 2013	This project is required to provide for the orderly and proper development of the are and ensures traffic growth is directed to the arterial road network.
DI_RO_9a	Road Bridge Construction - over Gum Scrub Creek (Officer Town Centre Link Road)	\$913,830	This item is likely to be used equally by both the residents of Cell 3 and the community directly to the west of the cell 3 boundary	2018 - 2023	This project is required to provide for the orderly and proper development of the area and ensures traffic growth is directed to the arterial road network.
DI_RO_9b	Road Bridge Construction - Henry Road over Gum Scrub Creek (Officer Town Centre Link Road)	\$1,245,462	This item is likely to be used equally by both the residents of Cell 5 and the community directly to the west of the cell 5 boundary	2013 - 2018	This project is required to provide for the orderly and proper development of the area and ensures traffic growth is directed to the arterial road network.
DI_RO_10	Road Construction - northern East West Road (west of Cardinia Road extension) includes culvert across Gum Scrub & Quirks Creek	\$2,433,592	Apportioned to Cell 1. The item is likely to be used by residents of Cell 1 only.	2008 - 2013	This project is required to provide for the orderly and proper development of the are and ensures traffic growth is directed to the arterial road network.
DI_RO_11	Road Construction - northern East West Road (east of Cardinia Road extension)	\$1,569,750	Apportioned to Cell 1. The item is likely to be used by residents of Cell 1 only.	2008 - 2013	This project is required to provide for the orderly and proper development of the are and ensures traffic growth is directed to the arterial road network.
DI_RO_12	Road Construction - Cardinia Road extension (northern link)	\$153,750	Apportioned to Cell 1. The item is likely to be used by residents of Cell 1 only.	2008 - 2013	This project is required to provide for the orderly and proper development of the area and ensures traffic growth is directed to the arterial road network.
DI_RO_13	Road Construction - Upgrade of Thewlis Road	\$306,028	Apportioned to the region north of the Princes Highway (Cells 1&2) in accordance with the projected dwelling yield of each cell. The item is likely to be used by the residents of this region.	2008 - 2013	This project is required to provide for the orderly and proper development of the are and ensures traffic growth is directed to the arterial road network.
DI_RO_14a	Road Construction - Lakeside Drive extension (northern link) (Stage 1)	\$512,796	Apportioned to Cell 2. The item is likely to be used by residents of Cell 2 only.	2008 - 2013	This project is required to provide for the orderly and proper development of the are and ensures traffic growth is directed to the arterial road network.
DI_RO_14b	Road Construction - Lakeside Drive extension (northern link) (Stage 2)	\$191,360	Apportioned to Cell 2. The item is likely to be used by residents of Cell 2 only.	2008 - 2013	This project is required to provide for the orderly and proper development of the are and ensures traffic growth is directed to the arterial road network.

TABLE 9: INF	RUSTRUCTURE PROJECT JUSTIFICATION	- DEVELOPMEN	IT INFRASTRUCTURE		
Project No	Project Description	Estimated Total Cost	Main Catchment Area (MCA) Determination	Provision Period	Strategic Justification
DI_RO_15	Signalised Intersection - Princes Highway and North South Collector Road	\$742,145	Apportioned evenly to Cells 1&3 in accordance with the projected dwelling yield of each cell. The item is likely to be used equally by residents of both cells.	2008 - 2013	This project is required to provide the necessary signalised intersections for the safe and efficient access to and within the structure plan area.
DI_RO_16	Signalised Intersection - Princes Highway and Cardinia Road	\$790,732	Cost apportionment based on CRPDCP Future Traffic Estimates & Road Infrastructure Requirements (Rev 7) report, John Piper Traffic Pty Ltd / Ashton Traffic Pty Ltd, August 2007 (point 'IW02')	2008 - 2013	This project is required to provide the necessary signalised intersections for the safe and efficient access to and within the structure plan area.
DI_RO_17	Signalised Intersection - Princes Highway and Thewlis Road	\$687,228	Apportioned evenly to Cells 1&2 in accordance with the projected dwelling yield of each cell. The item is likely to be used equally by residents of both cells.	2008 - 2013	This project is required to provide the necessary signalised intersections for the safe and efficient access to and within the structure plan area.
DI_RO_18	Signalised Intersection - Cardinia Road and Shearwater Drive	\$444,295	Apportioned to the region between the Princes Hwy and Railway Line (Cells 3&4) in accordance with the projected dwelling yield of each cell. The item is likely to be used by the residents of this region.	2008 - 2013	This project is required to provide the necessary signalised intersections for the safe and efficient access to and within the structure plan area.
DI_RO_19a	Signalised Intersection - Cardinia Road and Henry Road	\$561,998	Apportioned evenly to Cells 1&2 in accordance with the projected dwelling yield of each cell. The item is likely to be used equally by residents of both cells.	2008 - 2013	This project is required to provide the necessary signalised intersections for the safe and efficient access to and within the structure plan area.
DI_RO_19b	Signalised Intersection - Cardinia Road Activity Centre and Henry Road	\$246,355	Apportioned to Cell 6. The item is likely to be used by residents of Cell 6 only.	2008 - 2013	This project is required to provide the necessary signalised intersections for the safe and efficient access to and within the structure plan area.
DI_RO_20	Roundabouts - Henry Road (east of Cardinia Road)	\$1,123,962	Apportioned to Cell 6. The item is likely to be used by residents of Cell 6 only.	2008 - 2013	This project is required to provide the necessary roadworks for the safe and efficient access to and within the structure plan area.
DI_RO_21a	Roundabouts - Henry Road (west of Cardinia Road) (Stage 1)	\$387,941	Apportioned to Cell 5. The item is likely to be used by residents of Cell 5 only.	2008 - 2013	This project is required to provide the necessary roadworks for the safe and efficient access to the development area.
DI_RO_21b	Roundabouts - Henry Road (west of Cardinia Road) (Stage 2)	\$387,941	Apportioned to Cell 5. The item is likely to be used by residents of Cell 5 only.	2008 - 2013	This project is required to provide the necessary roadworks for the safe and efficient access to the development area.
DI_RO_22a	Roundabouts - northern East West Road (east of Cardinia Road extension) (Stage 1)	\$764,932	Apportioned to the region north of the Princes Highway (Cells 1&2) in accordance with the projected dwelling yield of each cell. The item is likely to be used by the residents of this region.	2008 - 2013	This project is required to provide the necessary roadworks for the safe and efficient access to the development area.

Project No	Project Description	Estimated Total Cost	Main Catchment Area (MCA) Determination	Provision Period	Strategic Justification
DI_RO_22b	Roundabouts - northern East West Road (east of Cardinia Road extension) (Stage 2)	\$382,466	Apportioned to Cell 1. The item is likely to be used by residents of Cell 1 only.	2013 - 2018	This project is required to provide the necessary roadworks for the safe and efficient access to the development area.
DI_RO_23	Roundabouts - northern East West Road (east of Cardinia Road extension) (Stage 2)	\$377,608	Apportioned to Cell 2. The item is likely to be used by residents of Cell 2 only.	2013 - 2018	This project is required to provide the necessary roadworks for the safe and efficient access to the development area.
DI_RO_24	Roundabout - northern East West Road (west of Cardinia Road extension)	\$382,466	Apportioned to Cell 1. The item is likely to be used by residents of Cell 1 only.	2018 - 2023	This project is required to provide the necessary signalised intersections for the safe and efficient access to and within the structure plan area.
DI_RO_25***	Acoustic Consulting Services and Landscape Architectural Consultancy Services for Freeway Noise Mitigation	\$22,312	Apportioned to Cells 5 & 6. These cells abut the Pakenham Bypass.	2008 - 2013	The work undertaken by the Consultants will ensure noise mitigation across the entire length of the Pakenham Bypass which is the southern boundary of the PSP.

^{*} The pedestrian bridge adjacent to the grade separated crossing has been classified as a "Roads and Intersections" item (DI_RO2c) and has not been included as an "Off Road Pedestrian & Cycle Network" item.

^{**} The rehabilitation and conservation works for the 'District Passive Open Space' have been included in the 'Open Space Landscaping & Rehabilitation - Construction' category.

^{***} DI_RO_25 Acoustic Consulting Services and Landscape Architectural Consultancy Services for Freeway Noise Mitigation has been inlcuded in the 'Road and Intersections - Construction' category.

5.6 Infrastructure Item Location Maps

Figure 3 Locations of Community Facilities & District / Neighbourhood Active Open Space Projects (Community Infrastructure Levy)

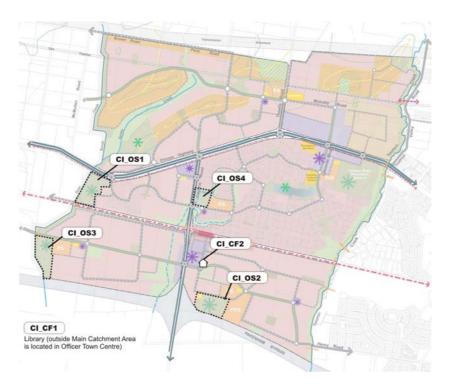


Figure 4 Locations of Community Facilities Projects (Development Infrastructure Levy)



Figure 5 Locations of Off Road Pedestrian & Cycle Network Projects (Development Infrastructure Levy)

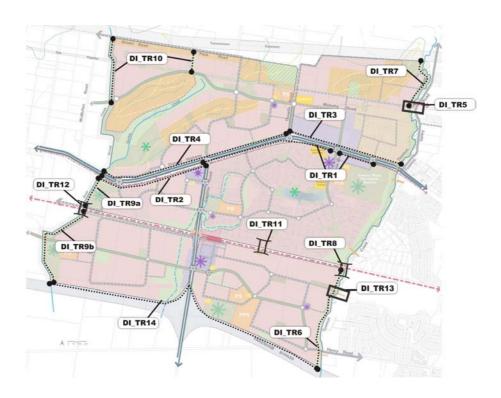


Figure 6 Locations of Land for Road Projects (Development Infrastructure Levy)

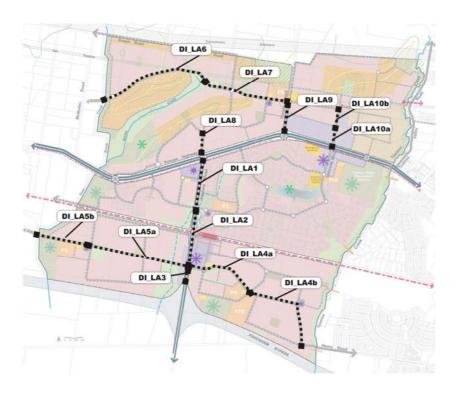


Figure 7 Locations of Land for Public Transport, Community Facilities, District Active Open Space and District Passive Open Space Projects (Development Infrastructure Levy)

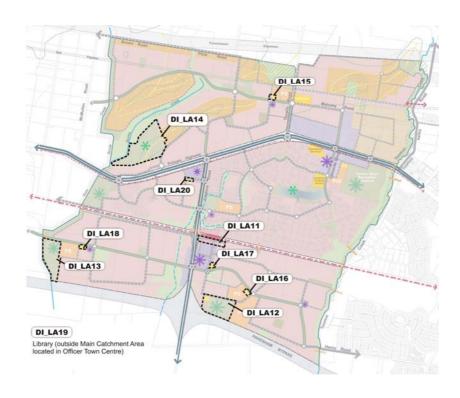


Figure 8 Locations of Local Open Space Projects (Development Infrastructure Levy)

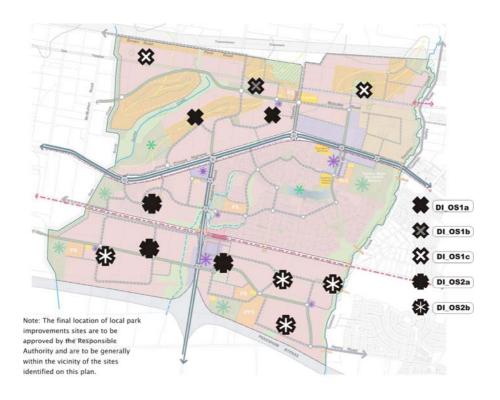


Figure 9 Locations of District Passive Open Space, District / Neighbourhood Active Open Space and Open Space Landscaping & Rehabilitation Projects (Development Infrastructure Levy)

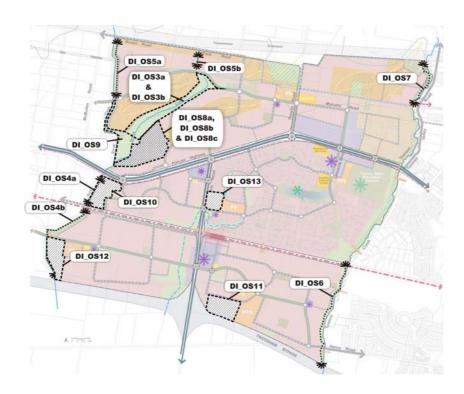
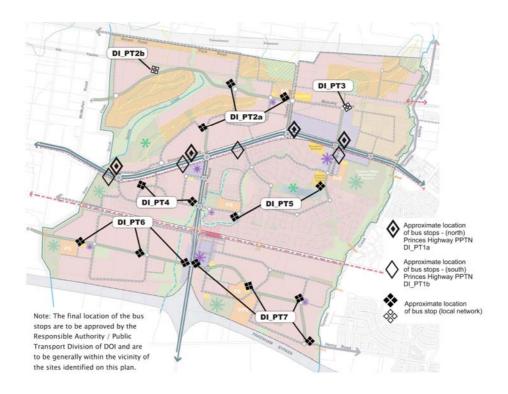


Figure 10 Locations of Public Transport Projects (Development Infrastructure Levy)



DI R012

DI R013

DI R014a

DI R014a

DI R02a

DI R02b

DI R02b

DI R02b

DI R02c

DI R02c

DI R02c

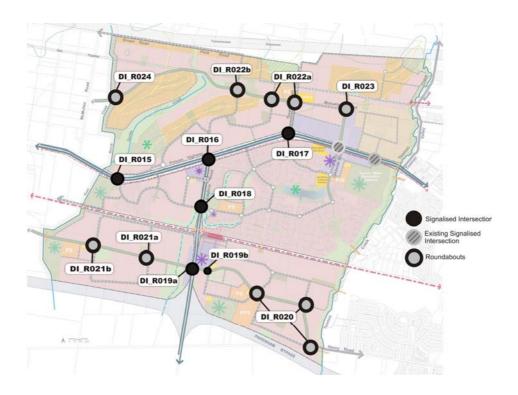
DI R02c

DI R02d

DI R02d

Figure 11 Locations of Road Projects (Development Infrastructure)

Figure 12 Locations of Intersections (Traffic Management) Projects (Development Infrastructure Levy)



5.7 VicRoads Items

The DCP will collect funds for the following Project Infrastructure Items which come under the control of VicRoads:

- DI_LA1 (Land required for Cardinia Road Duplication (from Princes Highway to Shearwater Drive))
- DI_LA2 (Land required for Cardinia Road Duplication & Grade Separated Crossing)
- DI_LA3 (Land required for Cardinia Road Duplication (from Henry Road extension to Pakenham Bypass))
- DI_RO1 (Road Construction Cardinia Road Duplication (from Princes Highway to Shearwater Drive))
- DI_RO2a (Road Construction Cardinia Road Duplication (from Shearwater Drive to Henry Road extension))
- DI_RO2b (Grade Separated Crossing (railway line))
- DI_RO3 (Road Construction Cardinia Road Duplication 6 lane divided carriageway (from Henry Road extension to Pakenham Bypass)).
- DI RO16 (Signalised Intersection Princes Highway (Cardinia Road))

VicRoads is the Development Agency in respect of each of the projects identified above. While Council as the Collecting Agency will collect the funds, those funds will be paid to VicRoads as the Development Agency. If the projects cost more than the amounts levied under this DCP, additional funding will need to be provided by VicRoads.

VicRoads will be responsible for meeting any external demand for these items beyond the Main Catchment Area, including demand created by Cell 4 and the Industrial Area adjacent to Cell 2.

If a State DCP is introduced then there will be reconciliation between this DCP and the State Levy to avoid double dipping.

6. Calculation of Levies

6.1 Method of Calculating Levies

The DCP Infrastructure Project Sheets in Appendix A identify the levies assigned to each infrastructure item. The method of calculation is described in this section.

6.1.1 Project Costs

Each item in the DCP has a cost specified for either capital works or land. These costs are listed in Table 10 and also in Appendix C of this document. The costs are expressed in December 2007 dollars and will be indexed annually in accordance with the indexation method specified in this DCP. A summary of the total costs for each Cell by infrastructure category are provided in Tables 11 and 12.

6.1.2 Project Timing

Each item in the DCP has an assumed timing of provision specified. Each project has been given a 6 year window for delivery in order to allow for variations in the rate of development.

In order to calculate the present value cost of each item, the latest date for the delivery of each infrastructure item has been assumed, except for the following items where the earliest date for provision of these items will be assumed:

- Land required for Cardinia Road widening and grade separation (DI_LA 01, DI_LA 02 and DI_LA 03);
- Land required for open space (DI_LA 12, DI_LA 13 and DI_LA 14), and
- Land (DI_LA 10a) and construction of Lakeside Drive Extension (DI_RO 14a), which is the subject of a section 173 agreement.

Appendix C provides details of the presumed timing of provision for each infrastructure item. The presumed timings are also summarised in Table 8 and Table 9.

6.1.3 External Usage

For some infrastructure projects there is a proportion of usage generated from areas external to the Main Catchment Area of the DCP. For each item in the DCP, the proportion of usage attributable to the external area has been specified in Table 10.

The proportion of costs attributable to external use is subtracted from the total project cost of an infrastructure item to give the cost attributable to the Main Catchment Area for each infrastructure item.

6.1.4 Charge Area (Cell) Apportionment

As previously outlined, the DCP Main Catchment Area has been divided into 6 Cells. These Cells form logical Charge Areas to which the usage of local infrastructure has been apportioned.

For each item in the DCP, the proportion of usage attributable to each Cell is specified in Table 10 and in the DCP Infrastructure Project Sheets. This proportion is taken from the total cost of an infrastructure item to obtain the cost attributable to the Cell for that infrastructure item.

6.1.5 Cost Apportionment Methods

The cost of each of the infrastructure items has been apportioned based upon the likelihood that an item will be used by residents within each Cell.

The method and justification for the cost apportionment that has been used for each infrastructure item is outlined in Table 8, Table 9, and the DCP Infrastructure Project Sheets (Appendix C). The cost apportionment percentages allocated to each cell are outlined in the DCP Infrastructure Project Sheets (Appendix C) and in Table 15.

Given that some infrastructure items will be used by all residents of the DCP area whilst some will only be used by local neighbourhoods, varying methods for determining apportionment have been used to fairly apportion costs across different item types, as detailed below.

'DCP Wide' Items

Where an infrastructure item has a 'DCP wide' catchment area, it is assumed that the infrastructure item is likely to be used equally by all residents of the DCP area and therefore has an equal benefit to each dwelling within the DCP area. In this case, the cost is apportioned between each Cell based upon the proportion of total projected dwellings that are to be contained within the Cell. The apportionment is based on the Cell's share of the population.

'Neighbourhood' Items

Where the likely use of an item is confined to one or two Cells, the cost of the item is apportioned between the relevant Cells based upon the proportion of total projected population within these Cells.

Where a road bridge, pedestrian bridge or pedestrian rail underpass serves as a link between two cells, that item will be apportioned evenly with a 50% apportionment given to each of the two Cells.

Apportionment based on Empirical Modelling

Where appropriate, costs have been apportioned to Cells based upon models of projected likely use developed by expert consultants. An example of this is the apportionment of cost for roads and traffic management devices.

6.1.6 Present Value Discounting

The present value discounting method has been used to allow for interest incurred or interest earned over time as outlined in the *Development Contributions Guidelines (2003)*. A discount rate of 6% p.a. has been applied.

For example, in the case of some infrastructure items, levies will be collected over time ahead of the provision of that infrastructure and hence interest will be earned on the funds invested. Similarly, certain infrastructure items will be provided before sufficient funds are collected. This will require funds to be 'borrowed' to provide the infrastructure and this will incur an interest cost. Interest earned and interest incurred needs to be taken into account in the calculation of the levy.

Additionally, the discount rate has also been applied to the stream of demand units over time which represents the income stream for the DCP over time.

The financing discount that has been applied to each infrastructure project is summarised in Table 10.

The calculation of the present value of the streams of demand units are based upon the projected timeframe for the development of each Cell, which is detailed in Appendix B.

6.1.7 Calculation of Levies

In order to calculate the levies for each Cell, the present value of the cost of each item is divided by the present value of the stream of developable lots, hectares or demand units for that Cell.

6.2 Development Contribution Rates Per Demand Unit

The levy amount generated by each item for each Cell is shown in Table 10 and in the DCP Infrastructure Project Sheets (Appendix C). The total levy amounts generated by each infrastructure category are summarised in Tables 13 and 14.

A summary of the development contributions that are required to be made for each Cell in the Cardinia Road Precinct are outlined in Table 13 and Table 14. These contributions are in December 2007 dollars. Table 14 will be indexed annually in accordance with the method specified in this DCP.

The required Community Infrastructure Levy (CIL) is outlined in Table 13. Council wil increase the CIL up to the amount identified in the DCP (plus any allowance for indexation of cost, as outlined in this DCP) to the maximum amount allowed under Section 46L.

The required Development Infrastructure Levy for each Cell is outlined in Table 14.

All residential land is subject to the Development Infrastructure Levy.

All commercial land is subject to the Development Infrastructure Levy.

Only residential dwellings are subject to the Community Infrastructure Levy.

Table 10 Calculation of Contributions

							Dema	nd Units	Applied	(Present V	alue of Str	eam) ¹	P	resent Valu	ie Levy Am	ount per C	Demand Un	it
Project No	Project Description	Total Cost of Project	Estimated External Usage	Total Cost Attributable to MCA	Total Present Value Cost Attributable to MCA	Types Making the Contri- bution ²	Cell 1	Cell 2	Cell 3	Cell 4	Cell 5	Cell 6	Cell 1	Cell 2	Cell 3	Cell 4	Cell 5	Cell 6
COMMUNITY	INFRASTRUCTUR	<u> </u>																
Community F	acilities - Constru	ction																
CI_CF_1	Library (Outside MCA)	\$7,270,769	60%	\$2,908,308	\$1,144,844	Res.	1,367.6	448.0	468.3	2,245.9	1,023.0	1,229.0	\$197	\$254	\$170	\$125	\$177	\$179
CI_CF_2	Community Centre (Community Meeting Place) - Henry Road (east)	\$3,956,625	0%	\$3,956,625	\$2,084,301	Res.	1,367.6	448.0	468.3	2,245.9	1,023.0	1,229.0	\$360	\$463	\$310	\$227	\$322	\$325
District / Neig	hbourhood Active	Open Space -	Construction	on														
CI_OS_1	District Sports Reserve - Princes Highway / Gum Scrub Creek	\$1,974,768	0%	\$1,974,768	\$1,392,134	Res.	1,367.6	448.0	468.3	2,245.9	1,023.0	1,229.0	\$240	\$309	\$207	\$152	\$215	\$217
CI_OS_2	District Sports Reserve - Henry Road (east)	\$2,191,329	0%	\$2,191,329	\$1,154,365	Res.	1,367.6	448.0	468.3	2,245.9	1,023.0	1,229.0	\$199	\$256	\$172	\$126	\$178	\$180
CI_OS_3	District Sports Reserve - Henry Road (west) / Gum Scrub Creek	\$2,853,703	0%	\$2,853,703	\$1,689,102	Res.	1,367.6	448.0	468.3	2,245.9	1,023.0	1,229.0	\$291	\$375	\$251	\$184	\$261	\$264
CI_OS_4	Neighbourhood Sports Reserve - Cardinia Road / Shearwater Drive	\$942,798	0%	\$942,798	\$664,635	Res.			468.3	2,245.9					\$314	\$230		

¹ For calculation of the Present Value of the Demand Stream see Appendix B – Cell Development Timeframe. See Table 11 and Table 12 for more information regarding infrastructure apportionment. ² 'Res' indicates that only Residential development are required to contribute for the item

							Dema	nd Units	Applied	(Present V	alue of Str	eam) ¹	P	resent Valu	ie Levy Am	ount per l	Demand Un	it
Project No	Project Description	Total Cost of Project	Estimated External Usage	Total Cost Attributable to MCA	Total Present Value Cost Attributable to MCA	Types Making the Contri- bution ²	Cell 1	Cell 2	Cell 3	Cell 4	Cell 5	Cell 6	Cell 1	Cell 2	Cell 3	Cell 4	Cell 5	Cell 6
DEVLOPMEN	T INFRASTRUCTU	JRE																
Community F	acilites - Construc	tion																
DI_CF_1	Community Centre (Children's Services) - Thewlis Road	\$2,665,860	0%	\$2,665,860	\$1,404,342	Res.	114.7	37.3	31.7		65.0	74.9	\$3,826	\$4,956	\$4,091		\$4,528	\$4,76
DI_CF_2	Community Centre (Children's Services) - Henry Road (east)	\$2,665,860	0%	\$2,665,860	\$1,404,342	Res.	114.7	37.3	31.7		65.0	74.9	\$3,826	\$4,956	\$4,091		\$4,528	\$4,763
DI_CF_3	Community Centre (Children's Services) - Henry Road (west)	\$2,665,860	0%	\$2,665,860	\$1,404,342	Res.	114.7	37.3	31.7		65.0	74.9	\$3,826	\$4,956	\$4,091		\$4,528	\$4,76
DI_CF_4	Community Centre (Youth Services) - District Sports Reserve (Henry Road (east))	\$2,145,838	0%	\$2,145,838	\$844,701	Res.	114.7	37.3	31.7	154.3	65.0	74.9	\$1,738	\$2,251	\$1,858	\$1,341	\$2,057	\$2,164
DI_CF_5	Community Centre (Children's Services) - Princes Highway / Cardinia Road NAC	\$2,128,003	0%	\$2,128,003	\$837,680	Res.	114.7	37.3	31.7		65.0	74.9	\$2,282	\$2,956	\$2,440		\$2,701	\$2,84

¹ For calculation of the Present Value of the Demand Stream see Appendix B – Cell Development Timeframe. See Table 11 and Table 12 for more information regarding infrastructure apportionment. ² 'Res' indicates that only Residential development are required to contribute for the item, 'Res & Comm' indicates that both Residential and Commercial development are required to contribute for the item

							Dema	nd Units	Applied	(Present V	alue of Str	eam) ¹	P	resent Valu	ie Levy Am	ount per [Demand Un	iit
Project No	Project Description	Total Cost of Project	Estimated External Usage	Total Cost Attributable to MCA	Total Present Value Cost Attributable to MCA	Types Making the Contri- bution ²	Cell 1	Cell 2	Cell 3	Cell 4	Cell 5	Cell 6	Cell 1	Cell 2	Cell 3	Cell 4	Cell 5	Cell 6
Off-Road Ped	lestrian & Cycle Ne	twork - Const	ruction															
DI_TR_1	Shared Path - South side of Princes Highway	\$413,877	0%	\$413,877	\$291,767	Res.				154.3						\$1,891		
DI_TR_2	Shared Path - South side of Princes Highway	\$290,152	0%	\$290,152	\$204,545	Res.			31.7						\$6,462			
DI_TR_3	Shared Path - North side of Princes Highway	\$275,268	0%	\$275,268	\$145,008	Res.		37.3						\$3,883				
DI_TR_4	Shared Path - North side of Princes Highway	\$496,816	0%	\$496,816	\$261,717	Res.	114.7						\$2,282					
DI_TR_5	Pedestrian Bridge over Toomuc Creek Network (north of Princes Highway)	\$136,864	50%	\$68,432	\$26,938	Res.		37.3						\$721				
DI_TR_6	Shared Path - Along Toomuc Creek (south of Princes Highway)	\$280,434	0%	\$280,434	\$197,695	Res.						74.9						\$2,63
DI_TR_7	Shared Path - Along Toomuc Creek (north of Mulcahy Road)	\$145,350	0%	\$145,350	\$57,216	Res.		37.3						\$1,532				

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							Dema	nd Units	Applied (Present V	alue of Str	eam) ¹	Р	resent Val	ue Levy Am	ount per [Demand Un	it
Project No	Project Description	Total Cost of Project	Estimated External Usage	Total Cost Attributable to MCA	Total Present Value Cost Attributable to MCA	Types Making the Contri- bution ²	Cell 1	Cell 2	Cell 3	Cell 4	Cell 5	Cell 6	Cell 1	Cell 2	Cell 3	Cell 4	Cell 5	Cell 6
DI_TR_8	Pedestrian Rail Underpass - Along Toomuc Creek	\$1,390,500	0%	\$1,390,500	\$980,248	Res.				154.3		74.9				\$3,177		\$6,541
DI_TR_9a	Shared Path - along Gum Scrub Creek (south of Princes Highway)	\$132,895	0%	\$132,895	\$93,686	Res.			31.7						\$2,960			
DI_TR_9b	Shared Path - Along Gum Scrub Creek (south of Princes Highway)	\$289,673	0%	\$289,673	\$152,596	Res.					65.0						\$2,349	
DI_TR_10	Shared Path - Along Gum Scrub & Quirks Creek (north of Princes Highway)	\$354,553	0%	\$354,553	\$139,568	Res.	114.7						\$1,217					
DI_TR_11	Pedestrian Rail Underpass - east of Cardinia Road (connection between Delfin and community south of railway line)	\$1,390,500	0%	\$1,390,500	\$980,248	Res.				154.3		74.9				\$3,177		\$6,541
DI_TR_12	Pedestrian Rail Underpass - Along Gum Scrub Creek	\$1,390,500	0%	\$1,390,500	\$732,498	Res.			31.7		65.0				\$11,571		\$5,638	

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							Dema	nd Units	Applied (Present V	alue of Str	eam) ¹	Р	resent Valu	ie Levy Am	ount per [Demand Un	it
Project No	Project Description	Total Cost of Project	Estimated External Usage	Total Cost Attributable to MCA	Total Present Value Cost Attributable to MCA	Types Making the Contri- bution ²	Cell 1	Cell 2	Cell 3	Cell 4	Cell 5	Cell 6	Cell 1	Cell 2	Cell 3	Cell 4	Cell 5	Cell 6
DI_TR_13	Pedestrian Bridge over Toomuc Creek (between railway line and Freeway)	\$253,500	50%	\$126,750	\$66,770	Res.						74.9						\$891
DI_TR_14	Shared Path - Along Pakenham Bypass, between Gum Scrub Creek & Toomuc Creek	\$1,513,663	0%	\$1,513,663	\$797,379	Res.					65.0	74.9					\$5,546	\$5,834
Roads and In	tersections - Land																	
DI_LA_1	Land required for Cardinia Road Duplication (from Princes Highway to Shearwater Drive)	\$785,531	38%	\$483,887	\$456,497	Res. & Comm.	115.5	69.4	41.2		65.9	93.2	\$2,169	\$1,131	\$557		\$236	\$954
DI_LA_2	Land required for Cardinia Road Duplication & Grade Separated Crossing	\$2,476,094	51%	\$1,223,190	\$1,153,953	Res. & Comm.	115.5	69.4	41.2		65.9	93.2	\$3,985	\$2,388	\$5,777		\$567	\$2,707
DI_LA_3	Land required for Cardinia Road Duplication (from Henry Road extension to Pakenham Bypass)	\$366,982	41%	\$216,153	\$203,918	Res. & Comm.	115.5	69.4	41.2		65.9	93.2	\$342	\$184	\$420		\$757	\$906

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							Dema	nd Units	Applied	Present V	alue of Str	eam) ¹	F	resent Val	ue Levy Am	ount per l	Demand Un	it
Project No	Project Description	Total Cost of Project	Estimated External Usage	Total Cost Attributable to MCA	Total Present Value Cost Attributable to MCA	Types Making the Contri- bution ²	Cell 1	Cell 2	Cell 3	Cell 4	Cell 5	Cell 6	Cell 1	Cell 2	Cell 3	Cell 4	Cell 5	Cell 6
DI_LA_4a	Land required for Henry Road extension (east of Cardinia Road) (Stage 1)	\$815,556	0%	\$815,556	\$574,935	Res. & Comm.						93.2						\$6,170
DI_LA_4b	Land required for Henry Road extension (east of Cardinia Road) (Stage 2)	\$1,036,371	0%	\$1,036,371	\$730,601	Res. & Comm.						93.2						\$7,840
DI_LA_5a	Land required for Henry Road extension (west of Cardinia Road) (Stage 1)	\$872,666	0%	\$872,666	\$615,195	Res. & Comm.					65.9						\$9,338	
DI_LA_5b	Land required for Henry Road extension (west of Cardinia Road) (Stage 2)	\$269,209	0%	\$269,209	\$189,781	Res. & Comm.					65.9						\$2,881	
DI_LA_6	Land required for northern East West Road (west of Cardinia Road extension)	\$269,209	0%	\$269,209	\$105,973	Res. & Comm.	115.5						\$918					
DI_LA_7	Land required for northern East West Road (east of Cardinia Road extension)	\$392,174	0%	\$392,174	\$276,467	Res. & Comm.	115.5						\$2,394					

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TABLE 10 : C	ALCULATION OF	CONTRIBUTIO	NS															
							Dema	nd Units	Applied (Present V	alue of Str	eam) ¹	Р	resent Valu	ıe Levy Am	ount per [Demand Un	it
Project No	Project Description	Total Cost of Project	Estimated External Usage	Total Cost Attributable to MCA	Total Present Value Cost Attributable to MCA	Types Making the Contri- bution ²	Cell 1	Cell 2	Cell 3	Cell 4	Cell 5	Cell 6	Cell 1	Cell 2	Cell 3	Cell 4	Cell 5	Cell 6
DI_LA_8	Land required for Cardinia Road extension (northern link)	\$91,125	0%	\$91,125	\$64,240	Res. & Comm.	115.5						\$556					
DI_LA_9	Land required for road widening of Thewlis Road (10 m)	\$780,200	0%	\$780,200	\$550,010	Res. & Comm.	115.5	69.4					\$3,350	\$2,350				
DI_LA_10a	Land required for Lakeside Drive extension (northern link) (Stage 1)	\$229,501	0%	\$229,501	\$216,510	Res. & Comm.		69.4						\$3,118				
DI_LA_10b	Land required for Lakeside Drive extension (northern link) (Stage 2)	\$439,194	0%	\$439,194	\$309,614	Res. & Comm.		69.4						\$4,459				
Public Transp	oort - Land																	
DI_LA_11	Land required for Railway Station & carparking	\$1,666,526	0%	\$1,666,526	\$1,174,835	Res.	114.7	37.3	31.7		65.0	74.9	\$3,201	\$4,146	\$3,422		\$3,788	\$3,985
District / Neig	hbourhood Active	Open Space -	Land															
DI_LA_12	Land required for District Sports Reserve - Henry Road (east)	\$3,600,000	0%	\$3,600,000	\$3,396,226	Res.	114.7	37.3	31.7	154.3	65.0	74.9	\$6,988	\$9,050	\$7,471	\$5,390	\$8,269	\$8,699

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											alue of Str					ount per	Demand Un	
Project No	Project Description	Total Cost of Project	Estimated External Usage	Total Cost Attributable to MCA	Total Present Value Cost Attributable to MCA	Types Making the Contri- bution ²	Cell 1	Cell 2	Cell 3	Cell 4	Cell 5	Cell 6	Cell 1	Cell 2	Cell 3	Cell 4	Cell 5	Cell 6
DI_LA_13	Land required for District Sports Reserve - Henry Road (west) / Gum Scrub Creek	\$3,589,448	0%	\$3,589,448	\$3,386,272	Res.	114.7	37.3	31.7	154.3	65.0	74.9	\$6,967	\$9,024	\$7,449	\$5,374	\$8,245	\$8,673
District Passi	ve Open Space - L	and														<u> </u>		
DI_LA_14	Land required for District Parkland - north of Princes Highway	\$5,335,000	0%	\$5,335,000	\$5,033,019	Res.	114.7	37.3	31.7		65.0	74.9	\$13,713	\$17,761	\$14,661		\$16,228	\$17,071
Community F	acilities - Land	·																
DI_LA_15	Land required for Community Centre (Children's Services) - Thewlis Road	\$178,667	0%	\$178,667	\$125,953	Res.	114.7	37.3	31.7		65.0	74.9	\$343	\$444	\$367		\$406	\$427
DI_LA_16	Land required for Community Centre (Children's Services) - Henry Road (east)	\$416,632	0%	\$416,632	\$293,709	Res.	114.7	37.3	31.7		65.0	74.9	\$800	\$1,036	\$856		\$947	\$996
DI_LA_17	Land required for Community Centre (Community Meeting Place) - Henry Road (east)	\$416,632	0%	\$416,632	\$293,709	Res.	114.7	37.3	31.7	154.3	65.0	74.9	\$604	\$783	\$646	\$466	\$715	\$752

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							Dema	nd Units	Applied (Present Va	alue of Str	eam) ¹	P	resent Valu	e Levy Am	ount per C	emand Un	it
Project No	Project Description	Total Cost of Project	Estimated External Usage	Total Cost Attributable to MCA	Total Present Value Cost Attributable to MCA	Types Making the Contri- bution ²	Cell 1	Cell 2	Cell 3	Cell 4	Cell 5	Cell 6	Cell 1	Cell 2	Cell 3	Cell 4	Cell 5	Cell 6
DI_LA_18	Land required for Community Centre (Children's Services) - Henry Road (west)	\$179,472	0%	\$179,472	\$94,544	Res.	114.7	37.3	31.7		65.0	74.9	\$258	\$334	\$275		\$305	\$32
DI_LA_19	Land required for Library (Outside MCA)	\$540,000	60%	\$216,000	\$85,028	Res.	114.7	37.3	31.7	154.3	65.0	74.9	\$175	\$227	\$187	\$135	\$207	\$218
DI_LA_20	Land required for Community Centre (Children's Services) - Princes Highway / Cardinia Road NAC	\$150,000	0%	\$150,000	\$105,744	Res.	114.7	37.3	31.7		65.0	74.9	\$288	\$373	\$308		\$341	\$359
Local Open S	pace - Constructio	n																
DI_OS_1a	Local Park Improvements (Stage 1) - north of Princes Highway	\$264,332	0%	\$264,332	\$186,343	Res.	114.7						\$1,625					
DI_OS_1b	Local Park Improvements (Stage 2) - north of Princes Highway	\$132,166	0%	\$132,166	\$69,623	Res.	114.7						\$607					
DI_OS_1c	Local Park Improvements (Stage 3) - north of Princes Highway	\$264,332	0%	\$264,332	\$104,053	Res.	114.7	37.3					\$454	\$1,393				

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Project No	Project Description	Total Cost of Project	Estimated External Usage	Total Cost Attributable to MCA	Total Present Value Cost Attributable to MCA	Types Making the Contri- bution ²	Cell 1	Cell 2	Cell 3	Cell 4	Cell 5	Cell 6	Cell 1	Cell 2	Cell 3	Cell 4	Cell 5	Cell 6
DI_OS_2a	Local Park Improvements (Stage 1) - South of Princes Highway	\$396,498	0%	\$396,498	\$279,515	Res.			31.7		65.0	74.9			\$2,943		\$1,434	\$1,244
DI_OS_2b	Local Park Improvements (Stage 2) - south of Princes Highway	\$528,664	0%	\$528,664	\$372,687	Res.					65.0	74.9					\$1,434	\$3,731
Open Space L	andscaping & Re	habilitation - C	onstruction															
DI_OS_3a	Quirks Creek Retarding Basin - Rehabilitation and Conservation (Stage 1)	\$4,901,710	0%	\$4,901,710	\$3,455,512	Res.	114.7		31.7		65.0		\$15,332		\$16,392		\$18,144	
DI_OS_3b	Quirks Creek Retarding Basin - Rehabilitation and Conservation (Stage 2)	\$987,058	0%	\$987,058	\$519,970	Res.	114.7		31.7		65.0		\$2,307		\$2,467		\$2,730	
DI_OS_4a	Landscaping & Environmental Works along Gum Scrub Creek Corridor - Princes Highway to Railway Reserve	\$177,870	0%	\$177,870	\$125,391	Res.			31.7						\$3,961			

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Project No	Project Description	Total Cost of Project	Estimated External Usage	Total Cost Attributable to MCA	Total Present Value Cost Attributable to MCA	Types Making the Contri- bution ²	Cell 1	Cell 2	Cell 3	Cell 4	Cell 5	Cell 6	Cell 1	Cell 2	Cell 3	Cell 4	Cell 5	Cell 6
DI_OS_4b	Landscaping & Environmental Works along Gum Scrub Creek Corridor - Railway reserve to Bypass	\$409,101	0%	\$409,101	\$215,509	Res.					65.0						\$3,318	
DI_OS_5a	Landscaping & Environmental Works along Gum Scrub Creek Corridor - East-West Road to Peck	\$293,422	0%	\$293,422	\$154,571	Res.	114.7						\$1,348					
DI_OS_5b	Landscaping & Environmental Works along Quirks Creek Corridor - East- West Road to Peck Road	\$119,109	0%	\$119,109	\$62,745	Res.	114.7						\$547					
DI_OS_6	Landscaping & Environmental Works along Toomuc Creek - Railway Reserve to Bypass	\$902,509	0%	\$902,509	\$636,233	Res.						74.9						\$8,491
DI_OS_7	Landscaping & Environmental Works along Toomuc Creek - Mulcahy Road to Brown Road	\$417,828	0%	\$417,828	\$164,476	Res.		37.3						\$4,404				

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Project No	Project Description	Total Cost of Project	Estimated External Usage	Total Cost Attributable to MCA	Total Present Value Cost Attributable to MCA	Types Making the Contri- bution ²	Cell 1	Cell 2	Cell 3	Cell 4	Cell 5	Cell 6	Cell 1	Cell 2	Cell 3	Cell 4	Cell 5	Cell 6
DI_OS_8a **	District Parkland - Rehabilitation and Conservation (Stage 1) - north of Princes Highway	\$1,444,135	0%	\$1,444,135	\$1,018,058	Res.	114.7	37.3	31.7		65.0	74.9	\$2,774	\$3,593	\$2,966		\$3,283	\$3,453
DI_OS_8b **	District Parkland - Rehabilitation and Conservation (Stage 2) - north of Princes Highway	\$790,735	0%	\$790,735	\$416,549	Res.	114.7	37.3	31.7		65.0	74.9	\$1,135	\$1,470	\$1,213		\$1,343	\$1,413
DI_OS_8c **	District Parkland - Rehabilitation & Conservation (Stage 3) - north of Princes Highway	\$1,339,773	0%	\$1,339,773	\$527,396	Res.	114.7	37.3	31.7		65.0	74.9	\$1,437	\$1,861	\$1,536		\$1,701	\$1,789
DI_OS_9	Landscaping & Environmental Works along Gum Scrub and Quirks Creek Corridor - north of Princes Highway	\$3,016,833	0%	\$3,016,833	\$1,589,230	Res.	114.7		31.7		65.0		\$7,051		\$7,539		\$8,345	

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Project No	Project Description	Total Cost of Project	Estimated External Usage	Total Cost Attributable to MCA	Total Present Value Cost Attributable to MCA	Types Making the Contri- bution ²	Cell 1	Cell 2	Cell 3	Cell 4	Cell 5	Cell 6	Cell 1	Cell 2	Cell 3	Cell 4	Cell 5	Cell 6
District / Neig	hbourhood Active	Open Space -	Construction	on														
DI_OS_10	District Sports Reserve - Princes Highway / Gum Scrub Creek	\$1,760,526	0%	\$1,760,526	\$1,241,101	Res.	114.7	37.3	31.7	154.3	65.0	74.9	\$2,554	\$3,307	\$2,730	\$1,970	\$3,022	\$3,179
DI_OS_11	District Sports Reserve - Henry Road (east)	\$1,505,748	0%	\$1,505,748	\$793,209	Res.	114.7	37.3	31.7	154.3	65.0	74.9	\$1,632	\$2,114	\$1,745	\$1,259	\$1,931	\$2,032
DI_OS_12	District Sports Reserve - Henry Road (west) / Gum Scrub Creek	\$1,098,104	0%	\$1,098,104	\$578,468	Res.	114.7	37.3	31.7	154.3	65.0	74.9	\$1,190	\$1,542	\$1,272	\$918	\$1,408	\$1,482
DI_OS_13	Neighbourhood Sports Reserve - Cardinia Road / Shearwater Drive	\$179,625	0%	\$179,625	\$94,624	Res.			31.7	154.3					\$662	\$477		
Public Transp	port - Construction																	
DI_PT_1a	Bus Stop Facilities - Princes Highway PPTN (north of Princes Highway)	\$133,990	0%	\$133,990	\$70,584	Res.	114.7	37.3					\$308	\$945				
DI_PT_1b	Bus Stop Facilities - Princes Highway PPTN (south of Princes Highway)	\$133,990	0%	\$133,990	\$70,584	Res.			31.7	154.3					\$1,115	\$229		

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Project No	Project Description	Total Cost of Project	Estimated External Usage	Total Cost Attributable to MCA	Total Present Value Cost Attributable to MCA	Types Making the Contri- bution ²	Cell 1	Cell 2	Cell 3	Cell 4	Cell 5	Cell 6	Cell 1	Cell 2	Cell 3	Cell 4	Cell 5	Cell 6
DI_PT_2a	Bus Stop Facilities - Local Network (north of Princes Highway) (Stage 1)	\$31,205	0%	\$31,205	\$21,998	Res.	114.7						\$192					
DI_PT_2b	Bus Stop Facilities - Local Network (north of Princes Highway) (Stage 3)	\$10,402	0%	\$10,402	\$4,095	Res.	114.7						\$36					
DI_PT_3	Bus Stop Facilities - Local Network (north of Princes Highway) (Stage 3)	\$10,402	0%	\$10,402	\$4,095	Res.		37.3						\$110				
DI_PT_4	Bus Stop Facilities - Local Network (south of Princes Highway) (Stage 1)	\$20,803	0%	\$20,803	\$14,666	Res.			31.7						\$463			
DI_PT_5	Bus Stop Facilities - Local Network (south of Princes Highway) (Stage 2)	\$20,803	0%	\$20,803	\$10,959	Res.				154.3						\$71		

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DI_PT_6	Bus Stop Facilities - Local Network (south of railway line) (Stage 2)	\$31,205	0%	\$31,205	\$16,438	Res.					65.0						\$253	
DI_PT_7	Bus Stop Facilities - Local Network (south of railway line) (Stage 1)	\$41,607	0%	\$41,607	\$29,331	Res.						74.9						\$391
Roads and In	tersections - Cons	truction		·														
DI_RO_1	Road Construction - Cardinia Road Duplication (from Princes Highway to Shearwater Drive)	\$1,956,813	39%	\$1,203,440	\$848,378	Res. & Comm.	115.5	69.4	41.2		65.9	93.2	\$4,013	\$2,106	\$1,037		\$440	\$1,791
DI_RO_2a	Road Construction - Cardinia Road Duplication (from Shearwater Drive to Henry Road extension)	\$2,596,242	51%	\$1,282,543	\$904,142	Res. & Comm.	115.5	69.4	41.2		65.9	93.2	\$3,122	\$1,871	\$4,526		\$445	\$2,121
DI_RO_2b	Grade Separated Crossing (railway line)	\$7,306,221	51%	\$3,609,273	\$1,901,320	Res. & Comm.	115.5	69.4	41.2		65.9	93.2	\$6,565	\$3,935	\$9,519		\$935	\$4,461
DI_RO_2c	Pedestrian Bridge adjacent to rail bridge.	\$235,827	0%	\$235,827	\$124,231	Res. & Comm.			41.2	180.4		93.2			\$1,004	\$230		\$444

¹ For calculation of the Present Value of the Demand Stream see Appendix B – Cell Development Timeframe. See Table 11 and Table 12 for more information regarding infrastructure apportionment. ² 'Res' indicates that only Residential development are required to contribute for the item

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							Dema	nd Units	Applied (Present V	alue of Str	eam) ¹	P	resent Valu	ie Levy Am	ount per	Demand Un	it
Project No	Project Description	Total Cost of Project	Estimated External Usage	Total Cost Attributable to MCA	Total Present Value Cost Attributable to MCA	Types Making the Contri- bution ²	Cell 1	Cell 2	Cell 3	Cell 4	Cell 5	Cell 6	Cell 1	Cell 2	Cell 3	Cell 4	Cell 5	Cell 6
DI_RO_2d	Road Bridge adjacent to rail bridge.	\$3,684,800	0%	\$3,684,800	\$1,941,107	Res. & Comm.					65.9	93.2					\$14,732	\$10,415
DI_RO_3	Road Construction - Cardinia Road Duplication (6 lane divided carriageway) (from Henry Road extension to Pakenham Bypass)	\$736,363	41%	\$433,718	\$228,477	Res. & Comm.	115.5	69.4	41.2		65.9	93.2	\$383	\$207	\$470		\$848	\$1,016
DI_RO_4	Street Lighting - south side Princes Highway from Lakeside Blvd to Gum Scrub Creek	\$574,860	0%	\$574,860	\$405,254	Res. & Comm.			41.2	180.4					\$4,913	\$1,123		
DI_RO_5	Street Lighting - north side Princes Highway from Lakeside Blvd extension to Gum Scrub Creek	\$574,829	0%	\$574,829	\$405,232	Res. & Comm.	115.5	69.4					\$2,807	\$1,167				
DI_RO_6a	Road Construction - Henry Road extension (east of Cardinia Road) (Stage 1)	\$1,088,370	0%	\$1,088,370	\$767,258	Res. & Comm.						93.2						\$8,233

¹ For calculation of the Present Value of the Demand Stream see Appendix B – Cell Development Timeframe. See Table 11 and Table 12 for more information regarding infrastructure apportionment. ² 'Res' indicates that only Residential development are required to contribute for the item, 'Res & Comm' indicates that both Residential and Commercial development are required to contribute for the item

							Dema	nd Units	Applied	(Present V	alue of Str	eam) ¹	P	resent Valu	ıe Levy Am	ount per l	Demand Un	it
Project No	Project Description	Total Cost of Project	Estimated External Usage	Total Cost Attributable to MCA	Total Present Value Cost Attributable to MCA	Types Making the Contri- bution ²	Cell 1	Cell 2	Cell 3	Cell 4	Cell 5	Cell 6	Cell 1	Cell 2	Cell 3	Cell 4	Cell 5	Cell 6
DI_RO_6b	Road Construction - Henry Road extension (east of Cardinia Road) (Stage 2)	\$1,382,355	0%	\$1,382,355	\$974,506	Res. & Comm.						93.2						\$10,457
DI_RO_7	Road Bridge Construction - Henry Road over Toomuc Creek	\$1,695,890	50%	\$847,945	\$597,768	Res. & Comm.						93.2						\$6,415
DI_RO_8a	Road Construction - Henry Road extension (west of Cardinia Road) (Stage 1)	\$1,560,000	0%	\$1,560,000	\$1,099,738	Res. & Comm.					65.9						\$16,693	
DI_RO_8b	Road Construction - Henry Road extension (west of Cardinia Road) (Stage 2)	\$910,000	0%	\$910,000	\$641,514	Res. & Comm.					65.9						\$9,738	
DI_RO_9a	Road Bridge Construction - over Gum Scrub Creek (Officer Town Centre Link Road)	\$913,830	50%	\$456,915	\$179,863	Res. & Comm.			41.2						\$4,361			

¹ For calculation of the Present Value of the Demand Stream see Appendix B – Cell Development Timeframe. See Table 11 and Table 12 for more information regarding infrastructure apportionment. ² 'Res' indicates that only Residential development are required to contribute for the item, 'Res & Comm' indicates that both Residential and Commercial development are required to contribute for the item

							Dema	nd Units	Applied	(Present V	alue of Str	eam) ¹	Р	resent Valu	ie Levy Am	ount per l	Demand Un	it
Project No	Project Description	Total Cost of Project	Estimated External Usage	Total Cost Attributable to MCA	Total Present Value Cost Attributable to MCA	Types Making the Contri- bution ²	Cell 1	Cell 2	Cell 3	Cell 4	Cell 5	Cell 6	Cell 1	Cell 2	Cell 3	Cell 4	Cell 5	Cell 6
DI_RO_9b	Road Bridge Construction - Henry Road over Gum Scrub Creek (Officer Town Centre Link Road)	\$1,245,462	50%	\$622,731	\$328,047	Res. & Comm.					65.9						\$4,979	
DI_RO_10	Road Construction - northern East West Road (west of Cardinia Road extension) includes culvert across Gum Scrub & Quirks Creek	\$2,433,592	0%	\$2,433,592	\$1,715,586	Res. & Comm.	115.5						\$14,855					
DI_RO_11	Road Construction - northern East West Road (east of Cardinia Road extension)	\$1,569,750	0%	\$1,569,750	\$1,106,612	Res. & Comm.	115.5						\$9,582					
DI_RO_12	Road Construction - Cardinia Road extension (northern link)	\$153,750	0%	\$153,750	\$108,388	Res. & Comm.	115.5						\$938					
DI_RO_13	Road Construction - Upgrade of Thewlis Road	\$306,028	0%	\$306,028	\$215,738	Res. & Comm.	115.5	69.4					\$1,314	\$922				

¹ For calculation of the Present Value of the Demand Stream see Appendix B – Cell Development Timeframe. See Table 11 and Table 12 for more information regarding infrastructure apportionment. ² 'Res' indicates that only Residential development are required to contribute for the item, 'Res & Comm' indicates that both Residential and Commercial development are required to contribute for the item

TABLE 10. CA	ALCULATION OF (JON INIDO IIC	, NO															
							Dema	nd Units	Applied	Present V	alue of Str	eam) 1	P	resent Valu	ie Levy Am	ount per E	Demand Un	it
Project No	Project Description	Total Cost of Project	Estimated External Usage	Total Cost Attributable to MCA	Total Present Value Cost Attributable to MCA	Types Making the Contri- bution ²	Cell 1	Cell 2	Cell 3	Cell 4	Cell 5	Cell 6	Cell 1	Cell 2	Cell 3	Cell 4	Cell 5	Cell 6
DI_RO_14a	Road Construction - Lakeside Drive extension (northern link) (Stage 1)	\$512,796	0%	\$512,796	\$483,770	Res. & Comm.		69.4						\$6,967				
DI_RO_14b	Road Construction - Lakeside Drive extension (northern link) (Stage 2)	\$191,360	0%	\$191,360	\$134,901	Res. & Comm.		69.4						\$1,943				
DI_RO_15	Signalised Intersection - Princes Highway and North South Collector Road	\$742,145	0%	\$742,145	\$523,183	Res. & Comm.	115.5		41.2				\$3,498		\$2,891			
DI_RO_16	Signalised Intersection - Princes Highway and Cardinia Road	\$790,732	66%	\$269,640	\$190,085	Res. & Comm.	115.5	69.4	41.2		65.9	93.2	\$811	\$811	\$487		\$59	\$173
DI_RO_17	Signalised Intersection - Princes Highway and Thewlis Road	\$687,228	0%	\$687,228	\$484,469	Res. & Comm.	115.5	69.4					\$2,950	\$2,070				
DI_RO_18	Signalised Intersection - Cardinia Road and Shearwater Drive	\$444,295	0%	\$444,295	\$313,210	Res. & Comm.			41.2	180.4					\$1,681	\$1,351		

¹ For calculation of the Present Value of the Demand Stream see Appendix B – Cell Development Timeframe. See Table 11 and Table 12 for more information regarding infrastructure apportionment. ² 'Res' indicates that only Residential development are required to contribute for the item, 'Res & Comm' indicates that both Residential and Commercial development are required to contribute for the item

							Dema	nd Units	Applied	(Present V	alue of Str	eam) ¹	Р	resent Valu	ue Levy Am	ount per l	Demand Un	it
Project No	Project Description	Total Cost of Project	Estimated External Usage	Total Cost Attributable to MCA	Total Present Value Cost Attributable to MCA	Types Making the Contri- bution ²	Cell 1	Cell 2	Cell 3	Cell 4	Cell 5	Cell 6	Cell 1	Cell 2	Cell 3	Cell 4	Cell 5	Cell 6
DI_RO_19a	Signalised Intersection - Cardinia Road and Henry Road	\$561,998	0%	\$561,998	\$396,186	Res. & Comm.					65.9	93.2					\$2,717	\$2,331
DI_RO_19b	Signalised Intersection - Cardinia Road Activity Centre and Henry Road	\$246,355	0%	\$246,355	\$173,671	Res. & Comm.						93.2						\$1,864
DI_RO_20	Roundabouts - Henry Road (east of Cardinia Road)	\$1,123,962	0%	\$1,123,962	\$792,349	Res. & Comm.						93.2						\$8,503
DI_RO_21a	Roundabouts - Henry Road (west of Cardinia Road) (Stage 1)	\$387,941	0%	\$387,941	\$273,483	Res. & Comm.					65.9						\$4,151	
DI_RO_21b	Roundabouts - Henry Road (west of Cardinia Road) (Stage 2)	\$387,941	0%	\$387,941	\$273,483	Res. & Comm.					65.9						\$4,151	
DI_RO_22a	Roundabouts - northern East West Road (east of Cardinia Road extension) (Stage 1)	\$764,932	0%	\$764,932	\$539,247	Res. & Comm.	115.5	69.4					\$3,284	\$2,304				

¹ For calculation of the Present Value of the Demand Stream see Appendix B – Cell Development Timeframe. See Table 11 and Table 12 for more information regarding infrastructure apportionment. ² 'Res' indicates that only Residential development are required to contribute for the item, 'Res & Comm' indicates that both Residential and Commercial development are required to contribute for the item

							Dema	nd Units	Applied	(Present V	alue of Str	eam) ¹	P	resent Valu	ie Levy Am	ount per I	Demand Un	it
Project No	Project Description	Total Cost of Project	Estimated External Usage	Total Cost Attributable to MCA	Total Present Value Cost Attributable to MCA	Types Making the Contri- bution ²	Cell 1	Cell 2	Cell 3	Cell 4	Cell 5	Cell 6	Cell 1	Cell 2	Cell 3	Cell 4	Cell 5	Cell 6
DI_RO_22b	Roundabouts - northern East West Road (east of Cardinia Road extension) (Stage 2)	\$382,466	0%	\$382,466	\$201,478	Res. & Comm.	115.5						\$1,745					
DI_RO_23	Roundabouts - northern East West Road (east of Cardinia Road extension) (Stage 2)	\$377,608	0%	\$377,608	\$198,919	Res. & Comm.		69.4						\$2,865				
DI_RO_24	Roundabout - northern East West Road (west of Cardinia Road extension)	\$382,466	0%	\$382,466	\$150,556	Res. & Comm.	115.5						\$1,304					
DI_RO_25***	Acoustic Consulting Services and Landscape Architectural Consultancy Services for Freeway Noise Mitigation	\$22,312	0%	\$22,312	\$15,729	Res. & Comm.					65.9	93.2					\$108	\$9

^{*} The pedestrian bridge adjacent to the grade separated crossing has been classified as a "Roads and Intersections" item (DI_RO2c) and has not been included as an "Off Road Pedestrian & Cycle Network" item.

^{**} The rehabilitation and conservation works for the 'District Passive Open Space' have been included in the 'Open Space Landscaping & Rehabilitation - Construction' category.

^{***} DI_RO_25 Acoustic Consulting Services and Landscape Architectural Consultancy Services for Freeway Noise Mitigation has been inlcuded in the 'Road and Intersections - Construction' category.

¹ For calculation of the Present Value of the Demand Stream see Appendix B – Cell Development Timeframe. See Table 11 and Table 12 for more information regarding infrastructure apportionment.

² 'Res' indicates that only Residential development is required to contribute for the item, 'Res & Comm' indicates that both Residential and Commercial development are required to contribute for the item

Table 11 Cost Contribution by Cell - Community Infrastructure Items

Community Infrastructure	Cell 1	Cell 2	Cell 3	Cell 4	Cell 5	Cell 6	Total
Community Facilities - Construction	\$1,619,588	\$683,144	\$477,991	\$1,680,994	\$1,085,773	\$1,317,442	\$6,864,933
District / Neighbourhood Active Open Space - Construction	\$1,656,125	\$698,555	\$697,506	\$2,452,983	\$1,110,267	\$1,347,162	\$7,962,599
Total	\$3,275,713	\$1,381,699	\$1,175,498	\$4,133,977	\$2,196,040	\$2,664,604	\$14,827,531

 Table 12
 Cost Contribution by Cell - Development Infrastructure Items

Development Infrastructure	Cell 1	Cell 2	Cell 3	Cell 4	Cell 5	Cell 6	Total
Community Facilites - Construction	\$3,669,728	\$1,547,895	\$1,083,052	\$525,445	\$2,460,188	\$2,985,113	\$12,271,421
Community Facilites - Land	\$438,173	\$184,822	\$129,318	\$154,911	\$293,751	\$356,428	\$1,557,402
Off-Road Pedestrian & Cycle Network - Construction	\$851,369	\$489,049	\$1,118,297	\$1,804,377	\$1,668,796	\$2,627,474	\$8,559,362
Local Open Space - Construction	\$528,664	\$132,166	\$132,166	\$0	\$264,332	\$528,664	\$1,585,991
Open Space Landscaping & Rehabilitation - Construction	\$6,060,222	\$888,898	\$1,844,681	\$0	\$4,195,316	\$1,810,965	\$14,800,082
District / Neighbourhood Open Space - Construction	\$1,029,653	\$434,308	\$343,651	\$1,208,548	\$690,280	\$837,563	\$4,544,003
District / Neighbourhood Open Space - Land	\$1,696,148	\$715,437	\$500,587	\$1,760,457	\$1,137,099	\$1,379,719	\$7,189,448
District Passive Open Space - Land	\$1,666,784	\$703,051	\$491,920	\$0	\$1,117,413	\$1,355,833	\$5,335,000
Public Transport - Construction	\$108,602	\$77,397	\$87,798	\$87,798	\$31,205	\$41,607	\$434,406
Public Transport - Land	\$520,663	\$219,616	\$153,664	\$0	\$349,053	\$423,530	\$1,666,526
Roads and Intersections - Land	\$2,096,384	\$1,172,801	\$295,262	\$0	\$1,250,834	\$2,303,153	\$7,118,434
Roads and Intersections - Construction	\$10,016,569	\$2,735,932	\$2,226,427	\$711,984	\$6,286,108	\$8,439,151	\$30,416,172
Total	\$28,682,957	\$9,301,372	\$8,406,823	\$6,253,520	\$19,744,376	\$23,089,200	\$95,478,247

Table 13 Summary of Charges - Community Infrastructure Levy

Community Infrastructure (Per Dwelling)	Cell 1	Cell 2	Cell 3	Cell 4	Cell 5	Cell 6
Community Facilities - Construction	\$557.1	\$717.2	\$480.1	\$352.1	\$499.2	\$504.2
District / Neighbourhood Active Open Space - Construction	\$730.7	\$940.8	\$944.0	\$692.2	\$654.8	\$661.4
Total Value (\$) of "Community Infrastructure" Contributions (per dwelling)	\$1,288	\$1,658	\$1,424	\$1,044	\$1,154	\$1,166

Table 14 Summary of Charges - Development Infrastructure Levy

Development Infrastructure (Per Ha)	Cell 1	Cell 2	Cell 3	Cell 4	Cell 5	Cell 6
Community Facilites - Construction	\$15,500	\$20,075	\$16,571	\$1,341	\$18,342	\$19,295
Community Facilites - Land	\$2,468	\$3,197	\$2,639	\$601	\$2,921	\$3,073
Off-Road Pedestrian & Cycle Network - Construction	\$3,500	\$6,137	\$20,992	\$8,244	\$13,533	\$22,447
Local Open Space - Construction	\$2,686	\$1,393	\$2,943	\$0	\$2,869	\$4,974
Open Space Landscaping & Rehabilitation - Construction	\$31,932	\$11,328	\$36,074	\$0	\$38,863	\$15,146
District / Neighbourhood Open Space - Construction	\$5,376	\$6,963	\$6,409	\$4,624	\$6,362	\$6,692
District / Neighbourhood Open Space - Land	\$13,955	\$18,074	\$14,919	\$10,764	\$16,514	\$17,372
District Passive Open Space - Land	\$13,713	\$17,761	\$14,661	\$0	\$16,228	\$17,071
Public Transport - Construction	\$535	\$1,055	\$1,578	\$300	\$253	\$391
Public Transport - Land	\$3,201	\$4,146	\$3,422	\$0	\$3,788	\$3,985
Roads and Intersections - Land	\$13,712	\$13,631	\$6,754	\$0	\$13,779	\$18,578
Roads and Intersections - Construction	\$57,170	\$27,167	\$30,889	\$2,704	\$59,996	\$58,316
Total Value (\$) of "Development Infrastructure" Contributions (per Ha of Net Developable Area) Payable by Developer on Residential Land	\$163,749	\$130,926	\$157,853	\$28,577	\$193,449	\$187,340
Total Value (\$) of "Development Infrastructure" Contributions (per Demand Unit) Payable by Developer on Retail/Commercial Land	\$70,883	\$40,797	\$37,643	\$2,704	\$73,775	\$76,894

¹ The Demand Unit for residential development is 1 hectare of Net Residential Developable Area. The demand unit for Core Retail development is 266.3 m² of gross retail floor space. The demand unit for Peripheral Commercial is 1,696.2 m² of gross floor space. For more detail on demand units refer to section 4.

7. DCP Administration

7.1 Indexation of Levies

Land values listed in this DCP are in December 2007 dollars. They will be indexed annually according to the following specified method:

The Development Contribution for each demand unit must be adjusted as follows:

- In relation to the costs associated with all infrastructure items other than land, the cost must be adjusted and the contribution amounts recalculated according to the following method:
 - The capital costs of each infrastructure item must be adjusted by reference to the Producer Price Indexes Australia, General construction (41) Victoria (Tables 15 & 16. Output of the general construction industry, Series 6427.0), published by the ABS.
 - The revised infrastructure costs and the adjustment of the contributions must be calculated as at 1 December in each year.
- In relation to the cost of land required under the Cardinia Road Precinct DCP, the land value must be adjusted by adopting a revised land value determined according to the following method:
 - The adoption of the market value of a hectare of land in the DCP area, to the satisfaction of the Responsible Authority, which is the mid point between a valuation conducted by the Victorian Valuer General and a registered valuer appointed by the President for the time being of the Victorian Division of the Australian Property Institute.
 - The revised land value and the adjustment of the contributions must be calculated as of 1 December in each year.
 - Within 14 days of the adjustments being made, the Responsible Authority must publish a notice of the amended contributions in a newspaper circulating in the municipality.

7.2 Valuation of Land

Initial valuation assessments for land required for development and community infrastructure within this DCP were carried out in accordance with the following principles:

1. Valuations were to be preliminary

Valuations provided were to be preliminary only, i.e.: they were to be prepared using:

- (a) the currently available information at the time in relation to the properties that were affected;
- (b) indicative information in relation to the land that was required; and
- (c) general guidance in relation to why the land was required.

The level of investigation was less than that associated with a full valuation report and it was acknowledged that valuations were likely to change if additional information came to hand in relation to the specific circumstances of each property. Likewise, it was acknowledged that if the size or the alignment of the land required changed or the nature of the required land changed, that future valuations were also likely to change.

2. Valuations were to take into account the specifics of the land required

Valuation of the land required took into account the specific circumstances of both the affected properties and the purpose of the land that was required. Valuations were not based on an indicative "rate per hectare" for the locality.

3. Normal valuation principles applied

Whilst the valuations were "preliminary", normal valuation practices were adopted. For example, where only part of the land was required, valuations were carried out on a "before and after" basis. Comparable sales were analysed and compared to the affected properties as part of the valuation process. Normal valuation considerations such as location, topography, shape, views and development constraints were taken into account to the extent that there was readily available information.

4. Zoning and development approvals were assumed

Valuations were carried out on the assumption that the subject lands were contained within an appropriate urban zoning and that development approval was in place.

5. Availability of services was assumed

It was assumed that all normal services were available for connection. The valuations took account of the actual circumstances in relation to services. For example, if services were remote from the property, the land value was likely to be lower than would be the case for properties which had services at the property boundary. It was acknowledged that future reviews of the valuations should take account of changes in the location and availability of services.

7.3 Collecting Agency

The Cardinia Shire Council is the Collecting Agency pursuant to section 46K of the *Planning and Environment Act 1987*.

7.4 Development Agency

The Cardinia Shire Council is the development agency for all infrastructure items pursuant to section 46K of the *Planning and Environment Act 1987* with the exception of those items outlined in section 5.7 of this DCP.

7.5 Collection of Levies

The Community Infrastructure Levy will be collected by Cardinia Shire Council at the Building Approval Stage in accordance with section 46(0) of the *Planning & Environment Act* 1987.

The Development Infrastructure Levy will be collected by Cardinia Shire Council as follows:

- For the subdivision of residential land, before the issue of a Statement of Compliance under the Subdivision Act 1988 in respect of the subdivision creating any new residential lot;
- In relation to the development of commercial land, a planning permit condition
 must require the payment of the development contribution prior to the
 commencement of works unless there is an agreement with the Responsible
 Authority to secure the payment of the development contribution by some
 other means or other timeframe.

The Development Infrastructure Levy will be collected by the Responsible Authority (Cardinia Shire Council) before the issue of a Statement of Compliance. A statement of compliance must not be issued until the development infrastructure levy is paid.

The Responsible Authority will impose conditions on a planning permit for subdivision or for the development of commercial land to collect the levies generally as follows:

For subdivisions of residential land

A development infrastructure levy must be paid to the Responsible Authority in accordance with the provisions of the approved Development Contributions Plan for the land within the following specified time, namely after Certification of the relevant plan of subdivision but not more than 21 days prior to the issue of a Statement of Compliance in respect of that plan.

Where the subdivision is to be developed in stages the development infrastructure levy for that stage only may be paid to the Responsible Authority within the time specified provided that a Schedule of Development Contributions is submitted with each stage plan of subdivision. The schedule must show the amount of development contributions payable for each stage and paid in respect of prior stages to the satisfaction of the Responsible Authority.

For a permit for the development of commercial land

Unless some other arrangement has been agreed to by Council in a section 173 agreement, prior to the commencement of any development, the Development Infrastructure Levy must be paid to the Responsible Authority in accordance with the provisions of the approved DCP for the land.

No permit required for the development of land

Where no planning permit is required for the development of land, unless some other arrangement has been agreed to by Council in a section 173 agreement, prior to the commencement of any development, the Development Infrastructure Levy must be paid to the Responsible Authority in accordance with the provisions of the approved DCP for the land.

7.6 State Infrastructure Levy

This DCP acknowledges that future legislation in regards to a Victorian State Infrastructure Levy may affect the requirement for, and cost of items within this DCP.

7.7 Administrative Procedures

The Strategic Development Unit of Council will undertake ongoing accounting and review of this DCP in terms of:

- The relevance of projects listed in the DCP;
- The level of contributions collected;
- The construction costs of infrastructure projects;
- The land costs of infrastructure projects;
- Updating the DCP to reflect any relevant amendments to the Planning and Environment Act, or any new Ministerial Directions relating to development contributions.

The Strategic Development Unit of Council will be required to undertake a formal review of this DCP every five years during the lifespan of the DCP.

Council must keep proper accounts for funds collected through a development contributions plan in accordance with the provisions of the *Planning & Environment Act* 1987 (Part 3b section 46Q(1)). Council intends to establish an interest bearing account to hold all funds collected from the DCP. All monies held in this account will be used solely for the provision of infrastructure as itemised in this DCP.

If Council resolves not to proceed with any of the infrastructure projects listed in this Development Contribution Plan, the Council will comply with section 46(Q) of the *Planning & Environment Act* 1987.

7.8 Method of Provision

Responsibility for the delivery of infrastructure works as described in this DCP resides with the Cardinia Shire Council with the exception of the items outlined in Section 5.7.

Infrastructure works may be provided by developers with a credit provided against their development contribution, subject to the agreement of the Council. The process by which developers may receive this credit is outlined in Section 8 - Implementation Strategy.

8. Implementation Strategy

8.1 Introduction

This section provides further details on how Council intends to implement the DCP. It provides further detailed information following on from Section 7 – DCP Administration. This section outlines:

- how land and works can be provided by developers to offset their development contributions;
- the specific items of infrastructure that Council considers could be provided inkind:
- a summary of the land budget and demand units under the DCP;
- a summary of the development contribution that is payable by each cell and the total funds to be collected;
- a summary of the apportionment of infrastructure costs.

8.2 Background and Rationale for the Implementation Strategy

This Implementation Strategy has been incorporated into the DCP to help minimise the risk to Council associated with administration the DCP.

The Implementation Strategy recognises that much of the land within the DCP area is held in large consolidated holdings by a small number of large residential land developers. Council seeks to provide these developers with opportunities to directly deliver DCP infrastructure projects.

The purpose of the Implementation Strategy is to provide certainty in terms of which infrastructure items can be provided by developers, the value of the credit that the developer will receive and the method by which the developer will be reimbursed for these credits. By allowing developers to provide infrastructure at set credits the funding risk to Council is reduced, while developers are given greater flexibility, certainty and control over the roll-out of infrastructure within their development area.

8.3 Provision of Land and Works In-Kind

As outlined in Section 7 – DCP Administration, payment of development contributions is to be made in cash.

Alternatively, infrastructure works and land may be provided by developers with a credit provided against their development contribution, subject to the agreement of the Council. In determining whether to agree to the provision of works in lieu of cash the Council will have regard to the following:

- Only works or land identified in the DCP can be provided in lieu of cash;
- Works must be provided to a standard that generally accords with the DCP unless agreed between Council and the developer;
- Detailed design must be approved by the Council and generally accord with the standards outlined in the DCP unless agreed by the Council and the developer;
- The construction of works must be completed to the satisfaction of the Council;
- The impact on the DCP is cost and revenue neutral.

Where Council agrees that works are to be provided by a developer in lieu of cash contributions:

- The credit for the works provided shall equal the value identified in the DCP taking into account the impact of indexation;
- The value of works provided in accordance with the principles outlined above, will be offset against the development contributions liable to be paid by the developer;
- The developer will not be required to make cash payments for contributions until the value of any credits for the provision of agreed works-in-kind are exhausted;
- Where credit for works-in-kind can't be offset against future levy payments the developer shall be reimbursed by the Council for any excess credit at the time of provision shown in the DCP;
- Where a developer chooses to bring forward works ahead of the scheduled time in the DCP this can be done provided the impact on the DCP is cost and revenue neutral.

8.4 Implementation

Where Council agrees that works in kind can be provided by a developer in lieu of cash contribution, this would be set out in an agreement pursuant to Section 173 of the *Planning and Environment Act 1987*.

It is Council's aim, where possible, to discuss and agree with large land developers, how they wish to develop their land holdings and to identify all of the items of infrastructure they wish to provide in lieu of development contributions. It is Council's aim to agree on these matters with developers prior to development commencing.

8.5 Land

Council wishes to obtain land required under the DCP, as an off-set against a developer's development contributions. As with works-in-kind, the provision of land would be set out in an agreement between the developer and Council pursuant to Section 173 of the *Planning and Environment Act 1987*. The value of the off-set for providing land will equal the value shown in the DCP, subject to indexation.

8.6 Infrastructure Cell Allocation and Suggested Land / Works to be Provided In-Kind

Table 15 below provides a summary of the infrastructure items allocated to each DCP Cell and the infrastructure items that could be provided as works in kind. The table indicates the cell in which each item would be provided and the developer credit that would be attributed for the provision of the item as works-in-kind (subject to annual indexation).

Council would encourage developers to discuss and agree with Council, the potential for provision of works and land to offset their development contribution. A major aim is to ensure that the timing of infrastructure delivery appropriately supports development.

Table 15 provides the starting point for Council and developers agreeing to a schedule of land and works that each developer can provide as an offset to their development contribution.

Council is proposing to construct the Community Centre items given the need to comply with statutory requirements relating to child care and kindergartens. However, Council could consider developers providing this infrastructure on a case by case basis.

In respect of the infrastructure items where VicRoads is the development agency, any proposal by developers to provide these works as an offset against their development contribution, must be agreed with VicRoads and the Council. These items will include DI_RO_1, DI_RO_2a, DI_RO_2b, DI_RO_3 and DI_RO_16.

Table 15 Infrastructure Cell Allocation and Land and Works-in-Kind

TABLE 15:	INFRASTRUCTURE CELL ALLOCATION AND LAND AND WORKS IN KIND										
Item	Description				ortioned to				Can be	Year	Credit at
		`	Bold indicat				11	,	Provided In-Kind		year of provision
		Cell 1	Cell 2	Cell 3	Cell 4	Cell 5	Cell 6	External Demand			(figure subject to indexation)
COMMUNIT	Y INFRASTRUCTURE				ı					I	,
Community	Facilities - Construction										
CI_CF_1	Library (Outside MCA)	9.4%	4.0%	2.8%	9.8%	6.3%	7.7%	60.0%	No	2018 - 2023	\$7,270,769
CI_CF_2	Community Centre (Community Meeting Place) - Henry Road (east)	23.6%	10.0%	7.0%	24.5%	15.8%	19.2%		No	2013 - 2018	\$3,956,625
District / Nei	ghbourhood Active Open Space – Construction										
CI_OS_1	District Sports Reserve - Princes Highway / Gum Scrub Creek	23.6%	10.0%	7.0%	24.5%	15.8%	19.2%		No	2008 - 2013	\$1,974,768
CI_OS_2	District Sports Reserve - Henry Road (east)	23.6%	10.0%	7.0%	24.5%	15.8%	19.2%		No	2013 - 2018	\$2,191,329
CI_OS_3	District Sports Reserve - Henry Road (west) / Gum Scrub Creek	23.6%	10.0%	7.0%	24.5%	15.8%	19.2%		No	2011 - 2016	\$2,853,703
CI_OS_4	Neighbourhood Sports Reserve - Cardinia Road / Shearwater Drive			22.1%	77.9%				No	2008 - 2013	\$942,798
DEVELOPM	ENT INFRASTRUCTURE										
Community	Facilites – Construction										
DI_CF_1	Community Centre (Children's Services) - Thewlis Road	31.2%	13.2%	9.2%		20.9%	25.4%		No	2013 - 2018	\$2,665,860
DI_CF_2	Community Centre (Children's Services) - Henry Road (east)	31.2%	13.2%	9.2%		20.9%	25.4%		No	2013 - 2018	\$2,665,860
DI_CF_3	Community Centre (Children's Services) - Henry Road (west)	31.2%	13.2%	9.2%		20.9%	25.4%		No	2013 - 2018	\$2,665,860
DI_CF_4	Community Centre (Youth Services) - District Sports Reserve (Henry Road (east))	23.6%	10.0%	7.0%	24.5%	15.8%	19.2%		No	2018 - 2023	\$2,145,838
DI_CF_5	Community Centre (Children's Services) - Princes Highway / Cardinia Road NAC	31.2%	13.2%	9.2%		20.9%	25.4%		No	2018 - 2023	\$2,128,003
Off-Road Pe	destrian & Cycle Network - Construction										
DI_TR_1	Shared Path - South side of Princes Highway				100.0%				No	2008 - 2013	\$413,877
DI_TR_2	Shared Path - South side of Princes Highway			100.0%					Yes	2008 - 2013	\$290,152
DI_TR_3	Shared Path - North side of Princes Highway		100.0%						Yes	2013 - 2018	\$275,268
DI_TR_4	Shared Path - North side of Princes Highway	100.0%							Yes	2013 - 2018	\$496,816
DI_TR_5	Pedestrian Bridge over Toomuc Creek Network (north of Princes Highway)		50.0%					50.0%	Yes	2018 - 2023	\$136,864

^{*}This item will be provided within Cell 4, but the apportionment of the cost to Cell 4 is included in external demand (i.e VicRoads is the provider).

TABLE 15 : I	NFRASTRUCTURE CELL ALLOCATION AND LAND AND WORKS IN KIND										
Item	Description	(E	Bold indicat			Each Cell item would	be provide	ed)	Can be Provided	Year	Credit at year of
		Cell 1	Cell 2	Cell 3	Cell 4	Cell 5	Cell 6	External Demand	In-Kind		provision (figure subject to indexation)
DI_TR_6	Shared Path - Along Toomuc Creek (south of Princes Highway)						100.0%		Yes	2008 - 2013	\$280,434
DI_TR_7	Shared Path - Along Toomuc Creek (north of Mulcahy Road)		100.0%						Yes	2018 - 2023	\$145,350
DI_TR_8	Pedestrian Rail Underpass - Along Toomuc Creek				50.0%		50.0%		Yes	2008 - 2013	\$1,390,500
DI_TR_9a	Shared Path - along Gum Scrub Creek (south of Princes Highway)			100.0%					Yes	2008 - 2013	\$132,895
DI_TR_9b	Shared Path - Along Gum Scrub Creek (south of Princes Highway)					100.0%			Yes	2013 - 2018	\$289,673
DI_TR_10	Shared Path - Along Gum Scrub & Quirks Creek (north of Princes Highway)	100.0%							Yes	2018 - 2023	\$354,553
DI_TR_11	Pedestrian Rail Underpass - east of Cardinia Road (connection between Delfin and community south of railway line)				50.0%		50.0%		Yes	2008 - 2013	\$1,390,500
DI_TR_12	Pedestrian Rail Underpass - Along Gum Scrub Creek			50.0%		50.0%			Yes	2013 - 2018	\$1,390,500
DI_TR_13	Pedestrian Bridge over Toomuc Creek (between railway line and Freeway)						50.0%	50.0%	Yes	2013 - 2018	\$253,500
DI_TR_14	Shared Path - Along Pakenham Bypass, between Gum Scrub Creek & Toomuc Creek					45.2%	54.8%		Yes	2013 - 2018	\$1,513,663
Roads and I	ntersections – Land										
DI_LA_1	Land required for Cardinia Road Duplication (from Princes Highway to Shearwater Drive)	33.8%	10.6%	3.1%		2.1%	12.0%	38.5%	Yes	2008 - 2013	\$785,531
DI_LA_2	Land required for Cardinia Road Duplication & Grade Separated Crossing	19.7%	7.1%	10.2%	0.0% *	1.6%	10.8%	50.6%	Yes	2008 - 2013	\$2,476,094
DI_LA_3	Land required for Cardinia Road Duplication (from Henry Road extension to Pakenham Bypass)	11.4%	3.7%	5.0%		14.4%	24.4%	41.1%	Yes	2008 - 2013	\$366,982
DI_LA_4a	Land required for Henry Road extension (east of Cardinia Road) (Stage 1)						100.0%		Yes	2008 - 2013	\$815,556
DI_LA_4b	Land required for Henry Road extension (east of Cardinia Road) (Stage 2)						100.0%		Yes	2008 - 2013	\$1,036,371
DI_LA_5a	Land required for Henry Road extension (west of Cardinia Road) (Stage 1)					100.0%			Yes	2008 - 2013	\$872,666
DI_LA_5b	Land required for Henry Road extension (west of Cardinia Road) (Stage 2)					100.0%			Yes	2008 - 2013	\$269,209
DI_LA_6	Land required for northern East West Road (west of Cardinia Road extension)	100.0%							Yes	2018 - 2023	\$269,209
DI_LA_7	Land required for northern East West Road (east of Cardinia Road extension)	100.0%							Yes	2008 - 2013	\$392,174
DI_LA_8	Land required for Cardinia Road extension (northern link)	100.0%							Yes	2008 - 2013	\$91,125
DI_LA_9	Land required for road widening of Thewlis Road (10 m)	70.3%	29.7%						Yes	2008 - 2013	\$780,200
DI_LA_10a	Land required for Lakeside Drive extension (northern link) (Stage 1)		100.0%						Yes	2008 - 2013	\$229,501

^{*}This item will be provided within Cell 4, but the apportionment of the cost to Cell 4 is included in external demand (i.e VicRoads is the provider).

TABLE 15:	INFRASTRUCTURE CELL ALLOCATION AND LAND AND WORKS IN KIND										
Item	Description	(I	Bold indicat		ortioned to which the		be provide	ed)	Can be Provided	Year	Credit at year of
		Cell 1	Cell 2	Cell 3	Cell 4	Cell 5	Cell 6	External Demand	In-Kind		provision (figure subject to indexation)
DI_LA_10b	Land required for Lakeside Drive extension (northern link) (Stage 2)		100.0%						Yes	2008 - 2013	\$439,194
Public Trans	sport - Land										
DI_LA_11	Land required for Railway Station & carparking	31.2%	13.2%	9.2%		20.9%	25.4%		Yes	2008 - 2013	\$1,666,526
District / Nei	ighbourhood Active Open Space - Land										
DI_LA_12	Land required for District Sports Reserve - Henry Road (east)	23.6%	10.0%	7.0%	24.5%	15.8%	19.2%		Yes	2008 - 2013	\$3,600,000
DI_LA_13	Land required for District Sports Reserve - Henry Road (west) / Gum Scrub Creek	23.6%	10.0%	7.0%	24.5%	15.8%	19.2%		Yes	2008 - 2013	\$3,589,448
District Pass	sive Open Space – Land										
DI_LA_14	Land required for District Parkland - north of Princes Highway	31.2%	13.2%	9.2%		20.9%	25.4%		Yes	2008 - 2013	\$5,335,000
Community	Facilites - Land										
DI_LA_15	Land required for Community Centre (Children's Services) - Thewlis Road	31.2%	13.2%	9.2%		20.9%	25.4%		Yes	2008 - 2013	\$178,667
DI_LA_16	Land required for Community Centre (Children's Services) - Henry Road (east)	31.2%	13.2%	9.2%		20.9%	25.4%		Yes	2008 - 2013	\$416,632
DI_LA_17	Land required for Community Centre (Community Meeting Place) - Henry Road (east)	23.6%	10.0%	7.0%	24.5%	15.8%	19.2%		Yes	2008 - 2013	\$416,632
DI_LA_18	Land required for Community Centre (Children's Services) - Henry Road (west)	31.2%	13.2%	9.2%		20.9%	25.4%		Yes	2013 - 2018	\$179,472
DI_LA_19	Land required for Library (Outside MCA)	9.4%	4.0%	2.8%	9.8%	6.3%	7.7%	60.0%	No	2018 - 2023	\$540,000
DI_LA_20	Land required for Community Centre (Children's Services) - Princes Highway / Cardinia Road NAC	31.2%	13.2%	9.2%		20.9%	25.4%		Yes	2008 - 2013	\$150,000
Local Open	Space – Construction										
DI_OS_1a	Local Park Improvements (Stage 1) - north of Princes Highway	100.0%							Yes	2008 - 2013	\$264,332
DI_OS_1b	Local Park Improvements (Stage 2) - north of Princes Highway	100.0%							Yes	2013 - 2018	\$132,166
DI_OS_1c	Local Park Improvements (Stage 3) - north of Princes Highway	50.0%	50.0%						Yes	2018 - 2023	\$264,332
DI_OS_2a	Local Park Improvements (Stage 1) - South of Princes Highway			33.3%		33.3%	33.3%		Yes	2008 - 2013	\$396,498
DI_OS_2b	Local Park Improvements (Stage 2) - south of Princes Highway					25.0%	75.0%		Yes	2008 - 2013	\$528,664
Open Space	Landscaping & Rehabilitation – Construction										
DI_OS_3a	Quirks Creek Retarding Basin - Rehabilitation and Conservation (Stage 1)	50.9%		15.0%		34.1%			Yes	2008 - 2013	\$4,901,710
DI_OS_3b	Quirks Creek Retarding Basin - Rehabilitation and Conservation (Stage 2)	50.9%		15.0%		34.1%			Yes	2013 - 2018	\$987,058

^{*}This item will be provided within Cell 4, but the apportionment of the cost to Cell 4 is included in external demand (i.e VicRoads is the provider).

TABLE 15 : I	NFRASTRUCTURE CELL ALLOCATION AND LAND AND WORKS IN KIND										
Item	Description	(I	Bold indica		ortioned to which the		be provide	ed)	Can be Provided	Year	Credit at year of
		Cell 1	Cell 2	Cell 3	Cell 4	Cell 5	Cell 6	External Demand	In-Kind		provision (figure subject to indexation)
DI_OS_4a	Landscaping & Environmental Works along Gum Scrub Creek Corridor - Princes Highway to Railway Reserve			100.0%					Yes	2008 - 2013	\$177,870
DI_OS_4b	Landscaping & Environmental Works along Gum Scrub Creek Corridor - Railway reserve to Bypass					100.0%			Yes	2013 - 2018	\$409,101
DI_OS_5a	Landscaping & Environmental Works along Gum Scrub Creek Corridor - East-West Road to Peck Road	100.0%							Yes	2013 - 2018	\$293,422
DI_OS_5b	Landscaping & Environmental Works along Quirks Creek Corridor - East-West Road to Peck Road	100.0%							Yes	2013 - 2018	\$119,109
DI_OS_6	Landscaping & Environmental Works along Toomuc Creek - Railway Reserve to Bypass						100.0%		Yes	2008 - 2013	\$902,509
DI_OS_7	Landscaping & Environmental Works along Toomuc Creek - Mulcahy Road to Brown Road		100.0%						Yes	2018 - 2023	\$417,828
DI_OS_8a	District Parkland - Rehabilitation and Conservation (Stage 1) - north of Princes Highway	31.2%	13.2%	9.2%		20.9%	25.4%		Yes	2008 - 2013	\$1,444,135
DI_OS_8b	District Parkland - Rehabilitation and Conservation (Stage 2) - north of Princes Highway	31.2%	13.2%	9.2%		20.9%	25.4%		Yes	2013 - 2018	\$790,735
DI_OS_8c	District Parkland - Rehabilitation & Conservation (Stage 3) - north of Princes Highway	31.2%	13.2%	9.2%		20.9%	25.4%		Yes	2018 - 2023	\$1,339,773
DI_OS_9	Landscaping & Environmental Works along Gum Scrub and Quirks Creek Corridor - north of Princes Highway	50.9%		15.0%		34.1%			Yes	2013 - 2018	\$3,016,833
District / Nei	ghbourhood Active Open Space – Construction										
DI_OS_10	District Sports Reserve - Princes Highway / Gum Scrub Creek	23.6%	10.0%	7.0%	24.5%	15.8%	19.2%		Yes	2008 - 2013	\$1,760,526
DI_OS_11	District Sports Reserve - Henry Road (east)	23.6%	10.0%	7.0%	24.5%	15.8%	19.2%		Yes	2013 - 2018	\$1,505,748
DI_OS_12	District Sports Reserve - Henry Road (west) / Gum Scrub Creek	23.6%	10.0%	7.0%	24.5%	15.8%	19.2%		Yes	2013 - 2018	\$1,098,104
DI_OS_13	Neighbourhood Sports Reserve - Cardinia Road / Shearwater Drive			22.1%	77.9%				No	2013 - 2018	\$179,625
Public Trans	sport – Construction										
DI_PT_1a	Bus Stop Facilities - Princes Highway PPTN (north of Princes Highway)	50.0%	50.0%						Yes	2013 - 2018	\$133,990
DI_PT_1b	Bus Stop Facilities - Princes Highway PPTN (south of Princes Highway)			50.0%	50.0%				Yes	2013 - 2018	\$133,990
DI_PT_2a	Bus Stop Facilities - Local Network (north of Princes Highway) (Stage 1)	100.0%							Yes	2008 - 2013	\$31,205
DI_PT_2b	Bus Stop Facilities - Local Network (north of Princes Highway) (Stage 3)	100.0%							Yes	2018 - 2023	\$10,402

^{*}This item will be provided within Cell 4, but the apportionment of the cost to Cell 4 is included in external demand (i.e VicRoads is the provider).

TABLE 15 :	NFRASTRUCTURE CELL ALLOCATION AND LAND AND WORKS IN KIND										
Item	Description	(I	Bold indica		ortioned to which the	Each Cell item would	be provide	ed)	Can be Provided	Year	Credit at year of
		Cell 1	Cell 2	Cell 3	Cell 4	Cell 5	Cell 6	External Demand	In-Kind		provision (figure subject to indexation)
DI_PT_3	Bus Stop Facilities - Local Network (north of Princes Highway) (Stage 3)		100.0%						Yes	2018 - 2023	\$10,402
DI_PT_4	Bus Stop Facilities - Local Network (south of Princes Highway) (Stage 1)			100.0%					Yes	2008 - 2013	\$20,803
DI_PT_5	Bus Stop Facilities - Local Network (south of Princes Highway) (Stage 2)				100.0%				No	2013 - 2018	\$20,803
DI_PT_6	Bus Stop Facilities - Local Network (south of railway line) (Stage 2)					100.0%			Yes	2013 - 2018	\$31,205
DI_PT_7	Bus Stop Facilities - Local Network (south of railway line) (Stage 1)						100.0%		Yes	2008 - 2013	\$41,607
Roads and I	ntersections – Construction										
DI_RO_1	Road Construction - Cardinia Road Duplication (from Princes Highway to Shearwater Drive)	33.6%	10.6%	3.1%		2.1%	12.1%	38.5%	Subject to Agreement with VicRoads	2008 - 2013	\$1,956,813
DI_RO_2a	Road Construction - Cardinia Road Duplication (from Shearwater Drive to Henry Road extension)	19.7%	7.1%	10.2%	0.0%*	1.6%	10.8%	50.6%	Subject to Agreement with VicRoads	2008 - 2013	\$2,596,242
DI_RO_2b	Grade Separated Crossing (railway line)	19.7%	7.1%	10.2%	0.0% *	1.6%	10.8%	50.6%	Subject to Agreement with VicRoads	2013 - 2018	\$7,306,221
DI_RO_2c	Pedestrian Bridge adjacent to rail bridge.			33.3%	33.3%		33.3%		Yes	2013 - 2018	\$235,827
DI_RO_2d	Road Bridge adjacent to rail bridge.					50.0%	50.0%		Yes	2013 - 2018	\$3,684,800
DI_RO_3	Road Construction - Cardinia Road Duplication (6 lane divided carriageway) (from Henry Road extension to Pakenham Bypass)	11.4%	3.7%	5.0%		14.4%	24.4%	41.1%	Subject to Agreement with VicRoads	2013 - 2018	\$736,363
DI_RO_4	Street Lighting - south side Princes Highway from Lakeside Blvd to Gum Scrub Creek			50.0%	50.0%				Yes	2008 - 2013	\$574,860
DI_RO_5	Street Lighting - north side Princes Highway from Lakeside Blvd extension to Gum Scrub Creek	80.0%	20.0%						Yes	2008 - 2013	\$574,829
DI_RO_6a	Road Construction - Henry Road extension (east of Cardinia Road) (Stage 1)						100.0%		Yes	2008 - 2013	\$1,088,370
DI_RO_6b	Road Construction - Henry Road extension (east of Cardinia Road) (Stage 2)						100.0%		Yes	2008 - 2013	\$1,382,355
DI_RO_7	Road Bridge Construction - Henry Road over Toomuc Creek						50.0%	50.0%	Yes	2008 - 2013	\$1,695,890
DI_RO_8a	Road Construction - Henry Road extension (west of Cardinia Road) (Stage 1)					100.0%			Yes	2008 - 2013	\$1,560,000

^{*}This item will be provided within Cell 4, but the apportionment of the cost to Cell 4 is included in external demand (i.e VicRoads is the provider).

TABLE 15:	NFRASTRUCTURE CELL ALLOCATION AND LAND AND WORKS IN KIND										
Item	Description	(1	Bold indica		ortioned to which the		be provide	ed)	Can be Provided	Year	Credit at year of
		Cell 1	Cell 2	Cell 3	Cell 4	Cell 5	Cell 6	External Demand	In-Kind		provision (figure subject to indexation)
DI_RO_8b	Road Construction - Henry Road extension (west of Cardinia Road) (Stage 2)					100.0%			Yes	2008 - 2013	\$910,000
DI_RO_9a	Road Bridge Construction - over Gum Scrub Creek (Officer Town Centre Link Road)			50.0%				50.0%	Yes	2018 - 2023	\$913,830
DI_RO_9b	Road Bridge Construction - Henry Road over Gum Scrub Creek (Officer Town Centre Link Road)					50.0%		50.0%	Yes	2013 - 2018	\$1,245,462
DI_RO_10	Road Construction - northern East West Road (west of Cardinia Road extension) includes culvert across Gum Scrub & Quirks Creek	100.0%							Yes	2008 - 2013	\$2,433,592
DI_RO_11	Road Construction - northern East West Road (east of Cardinia Road extension)	100.0%							Yes	2008 - 2013	\$1,569,750
DI_RO_12	Road Construction - Cardinia Road extension (northern link)	100.0%							Yes	2008 - 2013	\$153,750
DI_RO_13	Road Construction - Upgrade of Thewlis Road	70.3%	29.7%						Yes	2008 - 2013	\$306,028
DI_RO_14 a	Road Construction - Lakeside Drive extension (northern link) (Stage 1)		100.0%						Yes	2008 - 2013	\$512,796
DI_RO_14 b	Road Construction - Lakeside Drive extension (northern link) (Stage 2)		100.0%						Yes	2008 - 2013	\$191,360
DI_RO_15	Signalised Intersection - Princes Highway and North South Collector Road	77.2%		22.8%					Yes	2008 - 2013	\$742,145
DI_RO_16	Signalised Intersection - Princes Highway and Cardinia Road	16.8%	10.1%	3.6%	0.0% *	0.7%	2.9%	65.9%	Subject to Agreement with VicRoads	2008 - 2013	\$790,732
DI_RO_17	Signalised Intersection - Princes Highway and Thewlis Road	70.3%	29.7%						Yes	2008 - 2013	\$687,228
DI_RO_18	Signalised Intersection - Cardinia Road and Shearwater Drive			22.1%	77.9%				Yes	2008 - 2013	\$444,295
DI_RO_19 a	Signalised Intersection - Cardinia Road and Henry Road					45.2%	54.8%		Yes	2008 - 2013	\$561,998
DI_RO_19 b	Signalised Intersection - Cardinia Road Activity Centre and Henry Road						100.0%		Yes	2008 - 2013	\$246,355
DI_RO_20	Roundabouts - Henry Road (east of Cardinia Road)						100.0%		Yes	2008 - 2013	\$1,123,962
DI_RO_21 a	Roundabouts - Henry Road (west of Cardinia Road) (Stage 1)					100.0%			Yes	2008 - 2013	\$387,941
DI_RO_21 b	Roundabouts - Henry Road (west of Cardinia Road) (Stage 2)					100.0%			Yes	2008 - 2013	\$387,941

^{*}This item will be provided within Cell 4, but the apportionment of the cost to Cell 4 is included in external demand (i.e VicRoads is the provider).

TABLE 15 : II	NFRASTRUCTURE CELL ALLOCATION AND LAND AND WORKS IN KIND										
ltem	Description	Cost Apportioned to Each Cell (Bold indicates cell/s in which the item would be provided) Provided In-Kind								Year	Credit at year of
		Cell 1	Cell 2	Cell 3	Cell 4	Cell 5	Cell 6	External Demand	in-rang		provision (figure subject to indexation)
DI_RO_22 a	Roundabouts - northern East West Road (east of Cardinia Road extension) (Stage 1)	70.3%	29.7%						Yes	2008 - 2013	\$764,932
DI_RO_22 b	Roundabouts - northern East West Road (east of Cardinia Road extension) (Stage 2)	100.0%							Yes	2013 - 2018	\$382,466
DI_RO_23	Roundabouts - northern East West Road (east of Cardinia Road extension) (Stage 2)		100.0%						Yes	2013 - 2018	\$377,608
DI_RO_24	Roundabout - northern East West Road (west of Cardinia Road extension)	100.0%							Yes	2018 - 2023	\$382,466
DI_RO_25	Acoustic Consulting Services and Landscape Architectural Consultancy Services for Freeway Noise Mitigation					45.2%	54.8%		No	2008 - 2013	\$22,312

^{*}This item will be provided within Cell 4, but the apportionment of the cost to Cell 4 is included in external demand (i.e VicRoads is the provider).

8.7 DCP Summary Tables

The following tables summarise the key elements of the DCP.

Table 16 Summary of Land Use provides a summary of the land budget and demand units for each cell within the DCP area.

Table 17 Summary of Levies Payable provides a summary of the developer contribution that is payable and the total funds to be collected for each cell within the DCP area.

Table 18 Cost Apportionment and Delivery provides a summary of the apportionment of infrastructure costs to each cell within the DCP area.

All dollar values shown in Table 17 and Table 18 are current as of December 2007 and are subject to indexation and review in accordance with the methods outlined within Section 7 of this document.

Table 16 Summary of Land Use

	Cell 1	Cell 2	Cell 3	Cell 4	Cell 5	Cell 6	Total
Residential							
Net Developable Hectares of Land	194.6	81.6	46.3	165.5	98.8	115.1	701.9
Dwellings (Estimated)	2321	979	685	2409	1556	1888	9838
Commercial							
Core Retail Floorspace (1 Unit = 253.3 sqm)	350	17500	3500	7000	350	7000	35700
Peripheral Commercial Floorspace (1 Unit = 1613.3 sqm)	150	7500	1500	3000	150	3000	15300
Total Commercial Floorspace	500	25000	5000	10000	500	10000	51000
Total Equivalent Residential Units	1.4	70.1	14.0	28.1	1.4	28.1	143.1

Table 17 Summary of Levies Payable (December 2007 Values)

	Cell 1	Cell 2	Cell 3	Cell 4	Cell 5	Cell 6	External	Total
Residential								
Development Infrastructure Levy (per hectare)	\$163,749	\$130,926	\$157,853	\$28,577	\$193,449	\$187,340		
Community Infrastructure Levy (per dwelling)	\$1,288	\$1,658	\$1,424	\$1,044	\$1,154	\$1,166		
Commercial								
Core Retail Floorspace (per 266.3 sqm)	\$70,883	\$40,797	\$37,643	\$2,704	\$73,775	\$76,894		
Peripheral Commercial Floorspace (per 1696.2 sqm)	\$70,883	\$40,797	\$37,643	\$2,704	\$73,775	\$76,894		
Total DIL Funds to be Collected	\$18,834,768	\$6,198,607	\$5,357,569	\$4,479,977	\$12,634,049	\$15,440,909	\$6,867,263	\$69,813,141
Total CIL Funds to be Collected	\$1,230,845	\$403,222	\$421,475	\$2,021,296	\$920,717	\$1,106,120	\$1,717,267	\$7,820,942

Note: all figures are expressed in Present Value terms discounted @ 6% p.a. to December 2007 values. See appendix D for Present Value of Development Units.

Table 18 Cost Apportionment and Delivery

	Cell 1	Cell 2	Cell 3	Cell 4	Cell 5	Cell 6	External	Total
Cost of Works Apportioned								
Development Infrastructure	\$18,834,744	\$6,198,599	\$5,357,554	\$4,480,023	\$12,634,049	\$15,440,944	\$6,867,263	\$69,813,176
Community Infrastructure	\$1,761,097	\$742,833	\$666,903	\$2,345,357	\$1,180,641	\$1,432,551	\$1,717,267	\$9,846,648
Total Cost of Works Apportioned	\$20,595,841	\$6,941,431	\$6,024,457	\$6,825,379	\$13,814,690	\$16,873,496	\$8,584,530	\$79,659,824
Suggested Provision of Works in Kind								
Development Infrastructure								
Developer Provided	\$17,361,555	\$2,602,684	\$5,990,529	\$3,069,247	\$9,952,657	\$15,139,109		\$54,115,781
Council and/or VicRoads Provided	\$1,590,153	\$0	\$4,210,643	\$2,002,930	\$2,824,110	\$3,668,812	\$228,298	\$14,524,946
Total	\$18,951,708	\$2,602,684	\$10,201,172	\$5,072,177	\$12,776,768	\$18,807,920	\$228,298	\$68,640,727
Community Infrastructure								
Council Provided	\$0	\$0	\$1,392,134	\$664,635	\$1,689,102	\$3,238,666	\$2,862,111	\$9,846,648
Total Works Provided	\$18,951,708	\$2,602,684	\$11,593,306	\$5,736,812	\$14,465,870	\$22,046,586	\$3,090,410	\$78,487,376

Note: all figures are expressed in Present Value terms discounted @ 6% p.a. to December 2007 values.

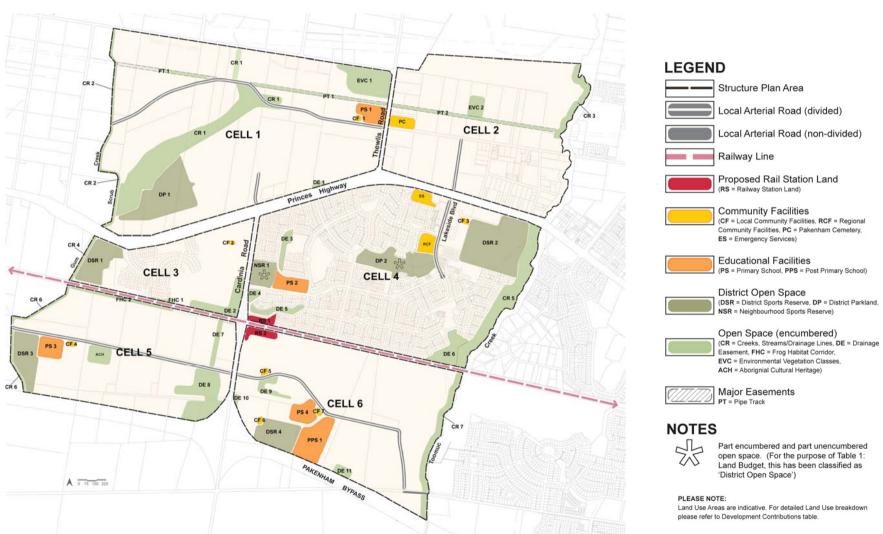
Appendices

Appendix A. **Detailed Land Budget**

	Cell 1	Cell 2	Cell 3	Cell 4	Cell 5	Cell 6	Total
Total Area	284.4	121.3	68.8	257.1	147.4	171.8	1,050.8
Encumbered Open Space (ha)	39.0	6.4	6.4	21.6	18.4	9.7	101.5
Toomuc, Gum Scrub & Quirks Creek	30.6	4.2	0.9	13.1	2.6	6.3	57.7
Drainage easements / stormwater management	0.4	0.0	5.0	8.5	11.5	3.4	28.8
EVCs	8.0	2.2	0.0	0.0	0.0	0.0	10.2
Aboriginal Cultural Heritage	0.0	0.0	0.0	0.0	2.6	0.0	2.6
Growling Grass Frog Habitat Corridor	0.0	0.0	0.5	0.0	1.7	0.0	2.2
District Open Space (ha)	16.2	0.0	8.0	34.4	8.0	8.0	74.6
District Sports Reserves	0.0	0.0	8.0	20.0	8.0	* 8.0	44.0
District Parkland	16.2	0.0	0.0	** 10.2	0.0	0.0	26.4
Neighbourhood Sports Reserve	0.0	0.0	0.0	4.2	0.0	0.0	4.2
Local Arterial Roads (ha)	8.8	1.5	0.0	2.1	6.0	7.0	25.4
Local Arterial Road - divided	8.8	1.5	0.0	2.1	6.0	6.5	24.9
Local Arterial Road - undivided	0.0	0.0	0.0	0.0	0.0	0.5	0.5
Community Facilities (ha)	3.9	2.2	0.3	9.4	3.9	13.9	33.6
Railway Station Land	0.0	0.0	0.0	1.4	0.0	1.6	3.0
State Primary School	3.5	0.0	0.0	3.5	3.5	3.5	14.0
State Post Primary School	0.0	0.0	0.0	0.0	0.0	8.0	8.0
Regional Community Facilities (Cardinia Cultural Centre)	0.0	0.0	0.0	2.1	0.0	0.0	2.1
Local Community Facilities	0.4	0.0	0.3	0.4	0.4	0.8	2.3
Pakenham Cemetary	0.0	2.2	0.0	0.0	0.0	0.0	2.2
Emergency Services	0.0	0.0	0.0	2.0	0.0	0.0	2.0
Major Easements (ha)	4.5	3.3	0.0	0.0	0.0	0.0	7.8
Gas Pipeline	4.5	3.3	0.0	0.0	0.0	0.0	7.8
Total Deductions	72.4	13.4	14.7	67.5	36.3	38.6	242.9
Net Developable Area	212.0	107.9	54.1	189.6	111.1	133.2	807.9

^{*} Includes site for Community Facility – Youth Centre ** Part encumbered and part unencumbered existing open space

Figure 13 Land Use Budget Breakdown Plan



Appendix B. Cell Development Timeframe

Table 19 Gross Developable Residential Land Projected Take-Up

	Cell 1	Cell 2	Cell 3	Cell 4	Cell 5	Cell 6	Total
Gross Area	284.4	121.3	68.8	257.1	147.4	171.8	1050.8
Gross Take up 1 to 2 years	0.0	0.0	0.0	31.5	0.0	0.0	31.5
Gross Take up 3 to 5 years	44.6	0.0	22.8	13.4	25.2	22.5	128.4
Gross Take up 6 to 10 years	130.8	0.0	46.0	0.0	122.2	149.3	448.3
Gross Take up 11+ years	109.1	121.3	0.0	0.0	0.0	0.0	230.4

Source: Urban Development Program, Annual Report 2006, DSE

Table 20 Net Developable Residential Land Projected Take Up

	Cell 1	Cell 2	Cell 3	Cell 4	Cell 5	Cell 6	Total
% Net Developable Area	68%	66%	67%	64%	67%	67%	-
Net Developable Area	194.6	81.6	46.3	165.4	98.8	115.1	701.8
Net Take up 1 to 2 years	0.0	0.0	0.0	20.2	0.0	0.0	20.2
Net Take up 3 to 5 years	30.5	0.0	15.3	8.6	16.9	15.1	86.4
Net Take up 6 to 10 years	89.5	0.0	31.0	0.0	81.9	100.0	302.4
Net Take up 11+ years	74.6	81.6	0.0	0.0	0.0	0.0	156.2

Source: Calculations by Urban Enterprise Pty Ltd based upon Cardinia Road Precinct Structure Plan and Urban Development Program, Annual Report 2006, DSE

Cell Development Projection Tables

Figure 14 Residential Dwellings per Year (Community Infrastructure Levy)

Timing	PV	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Total
Cell 1	1,368	0	0	121	121	121	213	213	213	213	213	148	148	148	148	148	148	2,321
Cell 2	448	0	0	0	0	0	0	0	0	0	0	163	163	163	163	163	163	979
Cell 3	468	0	0	76	76	76	92	92	92	92	92	0	0	0	0	0	0	685
Cell 4	2,246	2,136	147	42	42	42	0	0	0	0	0	0	0	0	0	0	0	2,409
Cell 5	1,023	0	0	89	89	89	258	258	258	258	258	0	0	0	0	0	0	1,556
Cell 6	1,229	0	0	82	82	82	328	328	328	328	328	0	0	0	0	0	0	1,888
Yearly Total		2,136	147	410	410	410	891	891	891	891	891	312	312	312	312	312	312	9,838

Figure 15 Total Demand Units per Year (Development Infrastructure Levy – Residential & Commercial)

Timing	PV	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Total
Cell 1	115.5	0.0	0.0	10.2	10.2	10.2	18.0	18.0	18.0	18.0	18.0	12.5	12.5	12.5	12.5	12.5	12.5	196.0
Cell 2	69.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.3	25.3	25.3	25.3	25.3	25.3	151.7
Cell 3	41.2	0.0	0.0	6.7	6.7	6.7	8.1	8.1	8.1	8.1	8.1	0.0	0.0	0.0	0.0	0.0	0.0	60.3
Cell 4	180.4	171.5	11.8	3.4	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	193.5
Cell 5	65.9	0.0	0.0	5.7	5.7	5.7	16.6	16.6	16.6	16.6	16.6	0.0	0.0	0.0	0.0	0.0	0.0	100.2
Cell 6	93.2	0.0	0.0	6.3	6.3	6.3	24.9	24.9	24.9	24.9	24.9	0.0	0.0	0.0	0.0	0.0	0.0	143.2
Yearly Total		171.5	11.8	32.2	32.2	32.2	67.6	67.6	67.6	67.6	67.6	37.8	37.8	37.8	37.8	37.8	37.8	844.9

Figure 16 Residential Hectares per Year (Development Infrastructure Levy – Residential)

Timing	PV	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Total
Cell 1	114.7	0.0	0.0	10.2	10.2	10.2	17.9	17.9	17.9	17.9	17.9	12.4	12.4	12.4	12.4	12.4	12.4	194.6
Cell 2	37.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.6	13.6	13.6	13.6	13.6	13.6	81.6
Cell 3	31.7	0.0	0.0	5.1	5.1	5.1	6.2	6.2	6.2	6.2	6.2	0.0	0.0	0.0	0.0	0.0	0.0	46.3
Cell 4	154.2	146.7	10.1	2.9	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	165.4
Cell 5	65.0	0.0	0.0	5.6	5.6	5.6	16.4	16.4	16.4	16.4	16.4	0.0	0.0	0.0	0.0	0.0	0.0	98.8
Cell 6	74.9	0.0	0.0	5.0	5.0	5.0	20.0	20.0	20.0	20.0	20.0	0.0	0.0	0.0	0.0	0.0	0.0	115.1
Yearly Total		146.7	10.1	28.8	28.8	28.8	60.5	60.5	60.5	60.5	60.5	26.0	26.0	26.0	26.0	26.0	26.0	701.8

Figure 17 Commercial Demand Units per Year * (Development Infrastructure Levy -Commercial)

Timing	PV	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Total
Cell 1	0.8	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1.4
Cell 2	32.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.7	11.7	11.7	11.7	11.7	11.7	70.1
Cell 3	9.6	0.0	0.0	1.5	1.5	1.5	1.9	1.9	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0	14.0
Cell 4	26.2	24.9	1.7	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.1
Cell 5	0.9	0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	1.4
Cell 6	18.3	0.0	0.0	1.2	1.2	1.2	4.9	4.9	4.9	4.9	4.9	0.0	0.0	0.0	0.0	0.0	0.0	28.1
Yearly Total	87.8	24.9	1.7	3.4	3.4	3.4	7.1	7.1	7.1	7.1	7.1	11.8	11.8	11.8	11.8	11.8	11.8	143.1

^{*} Assumption is made that allocated commercial development will occur at the same rate as projected residential development.

Appendix C. DCP Infrastructure Project Sheets

CI_CF_1	Library (Outside MCA)								
Description	Library within t	he Officer Struc	ture Plan Area	(outside MCA).					
	In	frastructure Typ	ре	Infra	astructure Cate	gory			
	Comi	munity Infrastru	cture	Co	mmunity Facilit	ies			
Project Cost	\$7,270,769								
Project Timing	2018 - 2023								
Strategic Justification	The project is r	equired to prov	ide adequate c	ommunity facili	ties to the new	community.			
External Usage Discount	60%								
Project Cost to MCA	\$2,908,308								
Apportionment of Costs		ordance with the Cardinia Rd & Off	ne Officer DCP are projected dwellin ficer SP areas.	g yield of each ce	ell. The item is like	ely to be used by			
MCA Cells	Cell 1	Cell 2	Cell 3	Cell 4	Cell 5	Cell 6			
Cost Apportioned to Cell	9.4%	4.0%	2.8%	9.8%	6.3%	7.7%			
Capital Cost	\$686,134	\$289,412	\$202,500	\$712,148	\$459,984	\$558,130			
Present Value Cost	\$270,094	\$113,926	\$79,713	\$280,334	\$181,071	\$219,706			
Present Value Demand Units	1,367.6	448.0	468.3	2,245.9	1,023.0	1,229.0			
Levy Amount	\$197.49	\$254.28	\$170.22	\$124.82	\$177.00	\$178.76			
List of Works Required	Library facility (1	,750 sq m @ 200	00 per sq m)			\$3,500,000			
	Equipment & an	cillary fit out cost	s (\$316 per sq m)		\$553,000			
	New Library mat	erials (\$948 per	sq m)			\$1,659,000			
	Car Park (100 sp	paces @ \$2969 p	er space)			\$296,900			
	Design & Project	Management (1	0% of construction	on cost)		\$600,890			
	Contingency (10	%)				\$660,979			
Costing Justification	Costings hase	l on information	n provided in Dr	aft Casev-Cardi	nia Libraries 20	030, 7 Sent			
Cooking Sactification	2005.	. on monnador	. provided in Di	a.r oacey oardi	a Elorando 20	.55, i Sopt			
Related Projects	DI_LA19								
	• — — —								

The Project Cost is expressed in December 2007 dollars.

Version



CI_CF_2 Community Centre (Community Meeting Place) - Henry Road (east) Community Centre (Community Meeting Place) - Cardinia Road/Henry Road area. Description Community Infrastructure Community Facilities Project Cost \$3,956,625 **Project Timing** 2013 - 2018 Strategic Justification The project is required to provide adequate community facilities to the new community. External Usage Discount 0% Project Cost to MCA \$3,956,625 Apportionment of Costs Apportioned evenly across DCP area in accordance with the projected dwelling yield of each cell. The item is likely to be used by residents of the entire DCP area. Cell 3 Cell 5 MCA Cells Cell 1 Cell 2 Cell 4 Cell 6 Cost Apportioned to Cell 23.6% 10.0% 7.0% 24.5% 15.8% 19.2% Capital Cost \$933,455 \$393,732 \$275,492 \$968,846 \$625,789 \$759,312 Present Value Cost \$491.732 \$207.413 \$145.126 \$510.376 \$329.658 \$399.996 Present Value Demand Units 1,367.6 448.0 468.3 2,245.9 1,023.0 1,229.0 \$309.89 \$359.56 \$462.95 \$227.25 \$322.24 \$325.46 Levy Amount List of Works Required Community Centre Building (903 m2 @ \$2948 per m2) \$2,662,044 Fit out \$136,864 Car Park (70 spaces @ \$2969 per space) \$207,830 Landscaping \$189,504 Allowance for ESD \$73,696 Design & Project Management (10% of construction cost) \$326,994 Contingency (10%) \$359,693 Costing Justification Based meeting place similar to Beaconsfield Community Complex - costings provided by Council. **Related Projects** DI LA17

The Project Cost is expressed in December 2007 dollars.

Version

SEPTEMBER 2008

Ref#



CI_0S_1 District Sports Reserve - Princes Highway / Gum Scrub Creek Description Gum Scrub Sports Reserve includes a double pavilion, floodlighting, fencing, netball courts with lighting, hitup wall / half court and ancillary items (Officer Farm Sports Reserve, Princes Highway, Officer). Community Infrastructure Open Space Project Cost \$1,974,768 **Project Timing** 2008 - 2013 Strategic Justification This project is required to provide adequate active recreation facilities for the new community. External Usage Discount 0% Project Cost to MCA \$1,974,768 Apportionment of Costs Apportioned evenly across DCP area in accordance with the projected dwelling yield of each cell. The item is likely to be used by residents of the entire DCP area. Cell 3 Cell 5 MCA Cells Cell 2 Cell 4 Cell 6 Cost Apportioned to Cell 23.6% 10.0% 7.0% 24.5% 15.8% 19.2% Capital Cost \$465,891 \$196,513 \$137,499 \$483,555 \$312,334 \$378,976 Present Value Cost \$328,435 \$138.534 \$96.931 \$340.887 \$220.183 \$267.163 Present Value Demand Units 1,367.6 448.0 468.3 2,245.9 1,023.0 1,229.0 \$206.98 \$240.15 \$309.21 \$151.78 \$215.23 \$217.38 Levy Amount List of Works Required Floodlighting (2 ovals) \$168,448 Fencing (all ovals) \$52,640 Netball Courts x 2 \$84,224 Lighting of netball courts \$21,056 \$1,053,000 Double Pavilion (500 m2 @ \$2106 per m2) Pavilion fitout allowance \$126,336 Scoreboards, goal posts/rings, shelters & seating \$84,224 Hit Up Wall & Half Court \$42,112 Design & Project Management (10% of construction cost) \$163,204 \$179,524 Contingency (10%)

Costing Justification

Based on Cardinia Growth Corridor Sport Facility Development Report, 21 March 2006. Updated with figures provided by Council.

Related Projects

DI_TR9a, DI_TR12, DI_OS4A, DI_OS10

The Project Cost is expressed in December 2007 dollars.

Version



CI_0S_2 District Sports Reserve - Henry Road (east) Description District Sports Reserve located on Henry Road extension (east of Cardinia Road) includes a double pavilion, floodlighting, fencing, netball courts with lighting, skate park and ancillary items (Cardinia Road Sports Reserve, Pakenham). Community Infrastructure Open Space Project Cost \$2,191,329 **Project Timing** 2013 - 2018 Strategic Justification This project is required to provide adequate active recreation facilities for the new community. External Usage Discount 0% Project Cost to MCA \$2,191,329 Apportionment of Costs Apportioned evenly across DCP area in accordance with the projected dwelling yield of each cell. The item is likely to be used by residents of the entire DCP area. Cell 3 Cell 5 MCA Cells Cell 1 Cell 2 Cell 4 Cell 6 Cost Apportioned to Cell 23.6% 10.0% 7.0% 24.5% 15.8% 19.2% Capital Cost \$516,983 \$218,064 \$152,578 \$536,584 \$346,586 \$420,536 Present Value Cost \$272.340 \$114.873 \$80.376 \$282,666 \$182.577 \$221.533 Present Value Demand Units 1,367.6 448.0 468.3 2,245.9 1,023.0 1,229.0 \$256.40 \$199.14 \$171.63 \$125.86 \$178.47 \$180.25 Levy Amount List of Works Required Floodlighting (2 ovals) \$168,448 Fencing (all ovals) \$52,640 Netball Courts x 2 \$84,224 Lighting of netball courts \$21,056 Double Pavilion (500 m2 @ \$2106 per m2) \$1,053,000 Pavilion fitout allowance \$126,336 Scoreboards, goal posts/rings, shelters & seating \$84,224 Shades, seating, drinking fountains \$21,056 Hit Up Wall & Half Court \$42,112 Skate Park \$157,920 Design & Project Management (10% of construction cost) \$181,102 \$199,212 Contingency (10%) Costing Justification Based on Cardinia Growth Corridor Sport Facility Development Report, 21 March 2006.

Related Projects

DI_CF4, DI_OS11, DI_LA12

The Project Cost is expressed in December 2007 dollars.

Updated with figures provided by Council.

Version



CI_0S_3 District Sports Reserve - Henry Road (west) / Gum Scrub Creek Description District Sports Reserve located on Henry Road extension (west of Cardinia Road, abutting Gum Scrub Creek) includes pavilion, floodlighting and lawn bowls facility (Gum Scrub Creek Sports Reserve, Rix Road, Officer). Community Infrastructure Open Space Project Cost \$2,853,703 **Project Timing** 2011 - 2016 Strategic Justification This project is required to provide adequate active recreation facilities for the new community. External Usage Discount 0% Project Cost to MCA \$2,853,703 Apportionment of Costs Apportioned evenly across DCP area in accordance with the projected dwelling yield of each cell. The item is likely to be used by residents of the entire DCP area. Cell 3 Cell 5 MCA Cells Cell 2 Cell 4 Cell 6 Cost Apportioned to Cell 23.6% 10.0% 7.0% 24.5% 15.8% 19.2% Capital Cost \$673,251 \$283,978 \$198,698 \$698,777 \$451,348 \$547,651 Present Value Cost \$398,496 \$168.086 \$117.609 \$413.605 \$267.152 \$324.154 Present Value Demand Units 1,367.6 448.0 468.3 2,245.9 1,023.0 1,229.0 \$291.38 \$375.17 \$251.14 \$184.16 \$261.14 \$263.75 Levy Amount List of Works Required Lawn Bowls Pavilion (400 m2 @ \$2106 per m2) \$842,400 Lawn Bowls Pavilion fitout allowance \$84,224 Lawn Bowls Facility Building (2 greens & sheds) \$736,960 Floodlighting \$84,224 Single pavilion for sports field (250 m2 @ \$2106 per m2) \$526,400 Pavilion fitout allowance \$84,224 Design & Project Management (10% of construction cost) \$235,843 Contingency (10%) \$259,428

Costing Justification

Based on Cardinia Growth Corridor Sport Facility Development Report, 21 March 2006. Updated with figures provided by Council.

Related Projects

DI_TR9b, DI_OS12, DI_LA13

The Project Cost is expressed in December 2007 dollars.

Version



CI_OS_4	Neighbour Drive										
Description	Neighbourhood single pavilion		rve located on Ca ing.	ardinia Road & S	Shearwater Dri	ve, includes a					
	Ir	frastructure T	ype	Infra	astructure Cate	egory					
		Community Infrastructure Open Space									
Project Cost	\$942,798										
Project Timing	2008 - 2013										
Strategic Justification	This project is community.	required to pro	ovide adequate a	active recreation	n facilities for t	he new					
External Usage Discount	0%										
Project Cost to MCA	\$942,798										
Apportionment of Costs			in accordance wit by residents of bot		welling yield of e	ach cell. The					
MCA Cells	Cell 1	Cell 2	Cell 3	Cell 4	Cell 5	Cell 6					
Cost Apportioned to Cell			22.1%	77.9%							
Capital Cost			\$208,732	\$734,066							
Present Value Cost			\$147,148	\$517,488							
Present Value Demand Units			468.3	2,245.9							
Levy Amount			\$314.21	\$230.42							
List of Works Required	Floodlighting (tra	aining level)				\$84,224					
	Single Pavilion (250m2 @ \$210	6 per m2)			\$526,500					
	Pavilion fitout al					\$84,224					
			shelters & seating 10% of construction	on cost)		\$84,224 \$77,917					
	Contingency (10		10% of construction	on cost)		\$85,709					
Costing Justification	Figures provide	igures provided by Council.									
Related Projects	DI_0S13										
		N_OS13 he Project Cost is expressed in December 2007 dollars.									

The Project Cost is expressed in December 2007 dollars. Version



DI_CF_1	Community Centre (Children's Services) - Thewlis Road								
Description	Community Ce	ntre (Children's	Services) - Thev	vlis Road area					
	In	frastructure Typ	ре	Infr	astructure Cate	gory			
		opment Infrastr			mmunity Facilit				
Project Cost	\$2,665,860								
Project Timing	2013 - 2018								
Strategic Justification	The project is r	required to prov	ide adequate co	mmunity facili	ities to the new	community.			
External Usage Discount	0%								
Project Cost to MCA	\$2,665,860								
Apportionment of Costs		part of a network	,5&6 in accordanc of similar items wi						
MCA Cells	Cell 1	Cell 2	Cell 3	Cell 4	Cell 5	Cell 6			
Cost Apportioned to Cell	31.2%	13.2%	9.2%		20.9%	25.4%			
Capital Cost	\$832,879	\$351,309	\$245,809		\$558,363	\$677,499			
Present Value Cost	\$438,750	\$185,065	\$129,489		\$294,139	\$356,898			
Present Value Demand Units	114.7	37.3	31.7		65.0	74.9			
Levy Amount	\$3,826.39	\$4,955.83	\$4,090.84		\$4,528.15	\$4,763.34			
List of Works Required	Double Kinderga	arten, MCH & mee	eting space (610 r	n2 @ \$2948 pe	r m2)	\$1,798,280			
	Fit Out					\$115,808			
	Car Park (30 spa	aces @ \$2969 pe	r space)			\$89,070			
	Landscaping					\$147,392			
	Allowance for ES	SD .				\$52,640			
	Design & Project	t Management (1	0% of construction	n cost)		\$220,319			
	Contingency (10	%)				\$242,351			
Costing Justification	Based on Lakeside model - costings provided by Council.								
Related Projects	DI_LA15								
		is expressed in [December 2007 de	ollare		<u> </u>			

 ${\it The \ Project \ Cost \ is \ expressed \ in \ December \ 2007 \ dollars.}$

Version

Ref#





DI_CF_2	Community Centre (Children's Services) - Henry Road (east)								
Description	Community Ce	ntre (Children's	Services) - Card	inia Road/Her	nry Road area				
	In	frastructure Ty	oe	Infr	astructure Cate	gorv			
		opment Infrastr			mmunity Facilit				
Project Cost	\$2,665,860		·						
Project Timing	2013 - 2018								
Strategic Justification	The project is r	equired to prov	ide adequate co	mmunity facili	ities to the new	community.			
External Usage Discount	0%								
Project Cost to MCA	\$2,665,860								
Apportionment of Costs	The item forms p	Apportioned evenly to Cells 1,2,3,5&6 in accordance with the projected dwelling yield of each cell. The item forms part of a network of similar items within the DCP area. A similar item has already been provided in Cell 4.							
MCA Cells	Cell 1	Cell 2	Cell 3	Cell 4	Cell 5	Cell 6			
Cost Apportioned to Cell	31.2%	13.2%	9.2%		20.9%	25.4%			
Capital Cost	\$832,879	\$351,309	\$245,809		\$558,363	\$677,499			
Present Value Cost	\$438,750	\$185,065	\$129,489		\$294,139	\$356,898			
Present Value Demand Units	114.7	37.3	31.7		65.0	74.9			
Levy Amount	\$3,826.39	\$4,955.83	\$4,090.84		\$4,528.15	\$4,763.34			
List of Works Required	Double Kinderga	rten, MCH & med	eting space (610 r	n2 @ \$2948 pe	r m2)	\$1,798,280			
	Fit Out					\$115,808			
	Car Park (30 spa	ices @ \$2969 pe	r space)			\$89,070			
	Landscaping					\$147,392			
	Allowance for ES	D				\$52,640			
	Design & Project	Management (1	0% of construction	n cost)		\$220,319			
	Contingency (10	%)				\$242,351			
Costing Justification	Based on Lakeside model - costings provided by Council.								
Related Projects	DI_LA16								
	The Project Cost	is expressed in L	December 2007 de	ollars.					

Version





DI_CF_3	Community Centre (Children's Services) - Henry Road (west)								
Description	Community Ce	ntre (Children's	Services) - Henry	y Road, west o	of Cardinia Road	İ			
	In	frastructure Typ	ре	Infr	astructure Cate	gory			
	Develo	opment Infrastr	ucture		mmunity Facilit	T T			
Project Cost	\$2,665,860		•						
Project Timing	2013 - 2018								
Strategic Justification	The project is r	equired to prov	ide adequate co	mmunity facili	ities to the new	community.			
External Usage Discount	0%								
Project Cost to MCA	\$2,665,860								
Apportionment of Costs		part of a network	,5&6 in accordance of similar items wit						
MCA Cells	Cell 1	Cell 2	Cell 3	Cell 4	Cell 5	Cell 6			
Cost Apportioned to Cell	31.2%	13.2%	9.2%		20.9%	25.4%			
Capital Cost	\$832,879	\$351,309	\$245,809		\$558,363	\$677,499			
Present Value Cost	\$438,750	\$185,065	\$129,489		\$294,139	\$356,898			
Present Value Demand Units	114.7	37.3	31.7		65.0	74.9			
Levy Amount	\$3,826.39	\$4,955.83	\$4,090.84		\$4,528.15	\$4,763.34			
List of Works Required	Double Kinderga	ırten, MCH & mee	eting space (610 m	n2 @ \$2948 pe	r m2)	\$1,798,280			
	Fit Out					\$115,808			
	Car Park (30 spa	aces @ \$2969 pe	r space)			\$89,070			
	Landscaping					\$147,392			
	Allowance for ES		0% of construction	cost)		\$52,640 \$220,319			
			O70 OF CONSTRUCTION			·			
	Contingency (10%) \$242,351								
Costing Justification	Based on Lakeside model - costings provided by Council.								
Related Projects	DI_LA18	DI LA18							
		The Project Cost is expressed in December 2007 dollars.							



DI_CF_4 Community Centre (Youth Services) - District Sports Reserve (Henry Road (east)) Community Centre (Youth Services) - Adjacent to Secondary School/District Sports Description Reserve **Development Infrastructure** Community Facilities \$2,145,838 Project Cost **Project Timing** 2018 - 2023 Strategic Justification The project is required to provide adequate community facilities to the new community. External Usage Discount 0% Project Cost to MCA \$2,145,838 Apportionment of Costs Apportioned evenly across DCP area in accordance with the projected dwelling yield of each cell. The item is likely to be used by residents of the entire DCP area. Cell 3 Cell 5 MCA Cells Cell 1 Cell 2 Cell 4 Cell 6 Cost Apportioned to Cell 23.6% 10.0% 7.0% 24.5% 15.8% 19.2% Capital Cost \$506,250 \$213,537 \$149,410 \$525,445 \$339,391 \$411,806 Present Value Cost \$199.284 \$84.058 \$58.815 \$206.839 \$133.600 \$162.106 Present Value Demand Units 114.7 37.3 31.7 154.3 65.0 74.9 Levy Amount \$1,737.97 \$2,250.97 \$1,858.09 \$1,340.55 \$2,056.72 \$2,163.54 List of Works Required Youth space (510 m2 @ \$2948 per m2) \$1,503,480 Fit Out \$73,696 Car Park (20 spaces @ \$2969 per space) \$59,380 Landscaping \$84,224 Allowance for ESD \$52,640 Design & Project Management (10% of construction cost) \$177,342 Contingency (10%) \$195,076 Costing Justification Based on Lakeside model - costings provided by Council. Related Projects DI LA12



DI_CF_5 Community Centre (Children's Services) - Princes Highway / Cardinia Road NAC Community Centre (Children's Services) - Princes Highway adjacent to the Princes Description Hwy/Cardinia Road Neighbourhood Activity Centre **Development Infrastructure** Community Facilities Project Cost \$2,128,003 **Project Timing** 2018 - 2023 Strategic Justification The project is required to provide adequate community facilities to the new community. External Usage Discount 0% Project Cost to MCA \$2,128,003 Apportionment of Costs Apportioned evenly to Cells 1,2,3,5&6 in accordance with the projected dwelling yield of each cell. The item forms part of a network of similar items within the DCP area. A similar item has already been provided in Cell 4. Cell 3 MCA Cells Cell 1 Cell 2 Cell 5 Cost Apportioned to Cell 31.2% 13.2% 9.2% 20.9% 25.4% Capital Cost \$664,840 \$280,430 \$196,215 \$445,709 \$540,809 Present Value Cost \$261.712 \$110.390 \$77.239 \$175.452 \$212.887 Present Value Demand Units 114.7 37.3 31.7 65.0 74.9 \$2,440.16 Levy Amount \$2,282.41 \$2,956.12 \$2,701.01 \$2,841.30 List of Works Required Single Kindergarten, MCH & meeting space (505 m2 @ \$2948 per m2) \$1,488,740 Fit Out \$73,696 Car Park (20 spaces @ \$2969 per space) \$59,380 Landscaping \$84,224 Allowance for ESD \$52,640 Design & Project Management (10% of construction cost) \$175,868 Contingency (10%) \$193,455 Costing Justification Costings provided by Council. Related Projects DI_LA20 The Project Cost is expressed in December 2007 dollars.

NIU



Version SEPTEMBER 2008



DI_TR_1 Shared Path - South side of Princes Highway Trail network from Lakeside Blvd to Cardinia Road and Lakeside Blvd to Toomuc Reserve. Description The trail is 2.5 m wide reinforced concrete with a length of 2000 m, with 10 signs erected (at each end of the trail and cross streets). **Development Infrastructure** Off-Road Pedestrian & Cycle Trails \$413,877 Project Cost **Project Timing** 2008 - 2013 Strategic Justification The project provides the new community with a safe and efficient trail network along the PPTN. External Usage Discount 0% Project Cost to MCA \$413,877 Apportionment of Costs Apportioned to Cell 4. The item is likely to be used by residents of Cell 4 only. Cell 4 MCA Cells Cost Apportioned to Cell 100.0% Capital Cost \$413,877 Present Value Cost \$291,767 Present Value Demand Units 154.3 \$1,890.98 Levy Amount List of Works Required Construction (excavation/reinstatement of trail edges) \$52,640 Concrete paving (2.5 m wide reinforced concrete) \$263,200 Installation of signs (qty 12) \$2,527 Design & Project Management (10% of construction cost) \$31,837 \$63,673 Contingency Allocation (20%) Costing Justification Based on CRPDCP Future Traffic Estimates & Road Infrastructure Requirements (Rev 7) report, John Piper Traffic Pty Ltd / Ashton Traffic Pty Ltd, August 2007. Item PC01 Appendix 5 xxxv **Related Projects** DI_RO4

The Project Cost is expressed in December 2007 dollars.

Version



DI_TR_2	Shared Pa	th - South	side of Princ	es Highwa	ау	
Description			Road to Gum Scru 00 m, with 10 sig			
	Ir	frastructure T	vne	Infr	astructure Cate	gorv
		opment Infras			Pedestrian & C	
Project Cost	\$290,152	оритоне интао	i dotaro	On Road	T Cucculair a C	yolo mano
Project Timing	2008 - 2013					
Strategic Justification		ovides the new	community with	a safe and eff	icient trail netw	ork along the
External Usage Discount	0%					
Project Cost to MCA	\$290,152					
Apportionment of Costs	Apportioned to 0	Cell 3. The item	s likely to be used b	oy residents of (Cell 3 only.	
MCA Cells	Cell 1	Cell 2	Cell 3	Cell 4	Cell 5	Cell 6
Cost Apportioned to Cell			100.0%			
Capital Cost			\$290,152			
Present Value Cost			\$204,545			
Present Value Demand Units			31.7			
Levy Amount			\$6,462.04			
List of Works Required	Construction (ex	cavation/reinst	atement of trail edg	es)		\$36,848
	Concrete paving	(2.5 m wide rei	nforced concrete)			\$184,240
	Installation of si	gns (qty 10)				\$2,106
	Design & Project	Management (10% of construction	n cost)		\$22,319
	Contingency (20	%)				\$44,639
Costing Justification	Based on CRP	DCP Future Tr	affic Estimates &	Road Infrastru	ıcture Requirem	nents (Rev 7)
		per Traffic Pty	Ltd / Ashton Traf		•	` ,
Related Projects	DI_RO4					

The Project Cost is expressed in December 2007 dollars.

Version



DI_TR_3	Shared Path - North side of	of Princes Highway
Description		Toomuc Creek. The trail is 2.5 m wide reinforced with 10 signs erected (at each end of the trail and
	Infrastructure Type	Infrastructure Category
	Development Infrastructure	re Off-Road Pedestrian & Cycle Trails
Project Cost	\$275,268	
Project Timing	2013 - 2018	
Strategic Justification	The project provides the new commit	nunity with a safe and efficient trail network along the
External Usage Discount	0%	
Project Cost to MCA	\$275,268	
Apportionment of Costs	Apportioned to Cell 2. The item is likely t	to be used by residents of Cell 2 only.
MCA Cells	Cell 1 Cell 2 C	Cell 3 Cell 4 Cell 5 Cell 6
Cost Apportioned to Cell	100.0%	
Capital Cost	\$275,268	
Present Value Cost	\$145,008	
Present Value Demand Units	37.3	
Levy Amount	\$3,883.13	
List of Works Required	Construction (excavation/reinstatement	at of trail edges) \$34,874
	Concrete paving (2.5 m wide reinforced	d concrete) \$174,765
	Installation of signs (qty 10)	\$2,106
	Design & Project Management (10% of c	construction cost) \$21,174
	Contingency (20%)	\$42,349
Costing Justification		stimates & Road Infrastructure Requirements (Rev 7) Ashton Traffic Pty Ltd, August 2007. Item PC08
Related Projects	DI_R05	
	-	

The Project Cost is expressed in December 2007 dollars.

Version



DI_TR_4 Shared Path - North side of Princes Highway Trail network from Thewlis Road to Gum Scrub Creek. The trail is 2.5 m wide reinforced Description concrete with a length of 2400 m, with signs erected at each end of the trail and cross streets. **Development Infrastructure** Off-Road Pedestrian & Cycle Trails Project Cost \$496,816 **Project Timing** 2013 - 2018 Strategic Justification The project provides the new community with a safe and efficient trail network along the External Usage Discount 0% Project Cost to MCA \$496,816 Apportionment of Costs Apportioned to Cell 1. The item is likely to be used by residents of Cell 1 only. Cell 1 MCA Cells Cell 4 Cost Apportioned to Cell 100.0% Capital Cost \$496,816 Present Value Cost \$261.717 Present Value Demand Units 114.7 \$2,282.46 Levy Amount List of Works Required Construction (excavation/reinstatement of trail edges) \$63,168 Concrete paving (2.5 m wide reinforced concrete) \$315,840 Installation of signs (qty 15) \$3,158 Design & Project Management (10% of construction cost) \$38,217 \$76,433 Contingency (20%) Costing Justification Based on CRPDCP Future Traffic Estimates & Road Infrastructure Requirements (Rev 7) report, John Piper Traffic Pty Ltd / Ashton Traffic Pty Ltd, August 2007. Item PC09 Appendix 5 xliii. Related Projects DI_R05

The Project Cost is expressed in December 2007 dollars.

Version

Ref#

16



DI_TR_5		Pedestrian Bridge over Toomuc Creek Network (north of Princes Highway)					
Description	Pedestrian Bridge constructed over Toomuc Creek (north of Princes Hwy)						
		nfrastructure Typ	e	Infr	Infrastructure Category		
	Development Infrastructure			Off-Road Pedestrian & Cycle Trails			
Project Cost	\$136,864						
Project Timing	2018 - 2023						
Strategic Justification	The project provides the new community with safe and efficient access along the Creek/Open Space corridor, including across Toomuc Creek.						
External Usage Discount	50%						
Project Cost to MCA	\$68,432						
Apportionment of Costs		ely to be used by bo dary (external to the		s of Cell 2 and the	e community direc	tly to the east of	
MCA Cells	Cell 1	Cell 2	Cell 3	Cell 4	Cell 5	Cell 6	
Cost Apportioned to Cell		50.0%					
Capital Cost		\$68,432					
Present Value Cost		\$26,938					
Present Value Demand Units		37.3					
Levy Amount		\$721.37					
List of Works Required	Construction of a timber and steel bridge \$105,280						
	Design & Project Management (10% of construction cost) \$10,528						
	Contingency (20%)					\$21,056	
Costing Justification	report, John F	Based on CRPDCP Future Traffic Estimates & Road Infrastructure Requirements (Rev 7) report, John Piper Traffic Pty Ltd / Ashton Traffic Pty Ltd, August 2007. Item PC03C Appendix 5 xxxvii					
Related Projects	DI_OS7	VAVII					
Related Projects	טו_טאַן						

The Project Cost is expressed in December 2007 dollars.

Version



DI_TR_6 Shared Path - Along Toomuc Creek (south of Princes Highway) Trail network along Toomuc Creek, from Railway line to the Pakenham Bypass. The trail is Description 2.5 m wide reinforced concrete with a length of 1340 m, with signs erected at each end of the trail and along network. **Development Infrastructure** Off-Road Pedestrian & Cycle Trails Project Cost \$280,434 **Project Timing** 2008 - 2013 Strategic Justification The project provides the new community with safe and efficient access along the Creek/Open Space corridor. External Usage Discount 0% Project Cost to MCA \$280,434 Apportionment of Costs Apportioned to Cell 6. The item is likely to be used by residents of Cell 6 only. Cell 6 MCA Cells Cell 4 Cost Apportioned to Cell 100.0% Capital Cost \$280,434 Present Value Cost \$197.695 Present Value Demand Units 74.9 Levy Amount \$2,638.54 List of Works Required Construction (excavation/reinstatement of trail edges) \$35,532 Concrete paving (2.5 m wide reinforced concrete) \$177,660 Installation of signs (qty 12) \$2,527 Design & Project Management (10% of construction cost) \$21,572 \$43,144 Contingency (20%) Costing Justification Based on CRPDCP Future Traffic Estimates & Road Infrastructure Requirements (Rev 7) report, John Piper Traffic Pty Ltd / Ashton Traffic Pty Ltd, August 2007. Item PC03B Appendix 5 xxxvi. Related Projects DI_0S6

The Project Cost is expressed in December 2007 dollars.

Version

SEPTEMBER 2008

Ref#

18



DI_TR_7 Shared Path - Along Toomuc Creek (north of Mulcahy Road) Trail network along Toomuc Creek, from within vicinity of Mulcahy Road to transmission Description line. The trail is 2.5 m wide reinforced concrete with a length of 700 m, with signs erected at each end and along network. **Development Infrastructure** Off-Road Pedestrian & Cycle Trails Project Cost \$145,350 **Project Timing** 2018 - 2023 Strategic Justification The project provides the new community with a safe and efficient network along the Creek/Open Space corridor. External Usage Discount 0% Project Cost to MCA \$145,350 Apportionment of Costs Apportioned to Cell 2. The item is likely to be used by residents of Cell 2 only. Cell 2 MCA Cells Cell 4 Cost Apportioned to Cell 100.0% Capital Cost \$145,350 Present Value Cost \$57,216 Present Value Demand Units 37.3 Levy Amount \$1,532.18 List of Works Required Construction (excavation/reinstatement of trail edges) \$18,424 Concrete paving (2.5 m wide reinforced concrete) \$92,120 Installation of signs (qty 6) \$1,263 Design & Project Management (10% of construction cost) \$11,181 \$22,361 Contingency (20%) Costing Justification Based on CRPDCP Future Traffic Estimates & Road Infrastructure Requirements (Rev 7) report, John Piper Traffic Pty Ltd / Ashton Traffic Pty Ltd, August 2007. Item PC03A Appendix 5 xxxvi. Related Projects DI_0S6

The Project Cost is expressed in December 2007 dollars.

Ref# Version SEPTEMBER 2008

19



DI_TR_8 Pedestrian Rail Underpass - Along Toomuc Creek Continuation of (Toomuc Creek) trail network via rail underpass. Description **Development Infrastructure** Off-Road Pedestrian & Cycle Trails \$1,390,500 Project Cost **Project Timing** 2008 - 2013 Strategic Justification The project provides the new community with safe and efficient access along the Creek/Open Space corridor, including access under the rail line. External Usage Discount 0% Project Cost to MCA \$1,390,500 Apportionment of Costs This item is likely to be used equally by both the residents of Cells 4 & 6. MCA Cells Cell 4 Cell 6 Cost Apportioned to Cell 50.0% 50.0% Capital Cost \$695,250 \$695,250 Present Value Cost \$490.124 \$490.124 Present Value Demand Units 154.3 74.9 Levy Amount \$3,176.56 \$6,541.43 List of Works Required Supply of Culverts \$90,000 Construction incl excavation for approaches, installation of culverts, backfill and 2.5 m wide path under the rail reserve \$600,000 Construction of end walls \$40,000 Allowance for: \$100,000 drainage and pumping works service alterations \$100,000 traffic management \$100,000 Design & Project Management (10% of construction cost) \$103,000 Contingency (25%) \$257,500 Costing Justification Based on CRPDCP Future Traffic Estimates & Road Infrastructure Requirements (Rev 8) report, John Piper Traffic Pty Ltd / Ashton Traffic Pty Ltd, April 2008. Item PC03E Appendix 5 xxxviii **Related Projects** DI_0S7, DI_TR13

The Project Cost is expressed in December 2007 dollars.

Version



DI_TR_9a Shared Path - along Gum Scrub Creek (south of Princes Highway) Trail network along Gum Scrub Creek from Princes Highway to the Railway line. The trail Description is 2.5 m wide reinforced concrete with a length of 500 m, with signs erected at each end and along the trail network. **Development Infrastructure** Off-Road Pedestrian & Cycle Trails Project Cost \$132,895 **Project Timing** 2008 - 2013 Strategic Justification The project provides the new community with safe and efficient access along the Creek/Open Space corridor. External Usage Discount 0% Project Cost to MCA \$132,895 Apportionment of Costs Apportioned to Cell 3. The item is likely to be used by residents of Cell 3 only. Cell 3 MCA Cells Cost Apportioned to Cell 100.0% Capital Cost \$132,895 Present Value Cost \$93.686 Present Value Demand Units 31.7 \$2,959.74 Levy Amount List of Works Required Construction (excavation/reinstatement of trail edges) \$21,582 Concrete paving (2.5 m wide reinforced concrete) \$78,960 Installation of signs (qty 8) \$1,684 Design & Project Management (10% of construction cost) \$10,223 \$20,445 Contingency (20%) Costing Justification Based on CRPDCP Future Traffic Estimates & Road Infrastructure Requirements (Rev 7) report, John Piper Traffic Pty Ltd / Ashton Traffic Pty Ltd, August 2007. Item PC04A Appendix 5 xxxix. **Related Projects** DI_OS4a, DI_TR12

The Project Cost is expressed in December 2007 dollars.

Version



DI_TR_9b Shared Path - Along Gum Scrub Creek (south of Princes Highway) Trail network along Gum Scrub Creek from the Railway line to the Pakenham Bypass. The Description trail is 2.5 m wide reinforced concrete with a length of 1150 m, with signs erected at each end and along the trail network. **Development Infrastructure** Off-Road Pedestrian & Cycle Trails \$289,673 Project Cost **Project Timing** 2013 - 2018 Strategic Justification The project provides the new community with safe and efficient access along the Creek/Open Space corridor. External Usage Discount 0% Project Cost to MCA \$289,673 Apportionment of Costs Apportioned to Cell 5. The item is likely to be used by residents of Cell 5 only. Cell 5 MCA Cells Cell 4 Cost Apportioned to Cell 100.0% Capital Cost \$289,673 Present Value Cost \$152,596 Present Value Demand Units 65.0 Levy Amount \$2,349.16 List of Works Required Construction (excavation/reinstatement of trail edges) \$38,690 Concrete paving (2.5 m wide reinforced concrete) \$181,608 Installation of signs (qty 12) \$2,527 Design & Project Management (10% of construction cost) \$22,283 \$44,565 Contingency (20%) Costing Justification Based on CRPDCP Future Traffic Estimates & Road Infrastructure Requirements (Rev 7) report, John Piper Traffic Pty Ltd / Ashton Traffic Pty Ltd, August 2007. Item PC04B Appendix 5 xxxix **Related Projects** DI_OS_4b, DI_TR12

The Project Cost is expressed in December 2007 dollars.

Version



DI_TR_10	Shared Path - Along Gum Scrub & Quirks Creek (north of								
	Princes Highway)								
Description		Trail network in beyond the trail network proposed as part of the rehabilitation and conservation of the Gum Scrub Creek District Parkland. North of the Gum Scrub Creek							
		,			ork). The trail is				
			gtn of 800 m a	long Gum Scru	b Creek and 37	5 m along the			
	eastern branch	frastructure Ty	ne	Inf	rastructure Cate	agory			
		opment Infrastr			Pedestrian & C				
Project Cost	\$354,553	prinerit illitasti	ucture	On-Road	redestrian & C	ycie Italis			
·									
Project Timing	2018 - 2023	Advantage of		((*				
Strategic Justification	Creek/Open Sp		community witr	i sate and ettic	ient access alor	ng tne			
External Usage Discount	0%								
Project Cost to MCA	\$354,553								
Apportionment of Costs	Apportioned to C	ell 1. The item is	likely to be used	by residents of	Cell 1 only.				
	_								
MCA Cells	Cell 1	Cell 2	Cell 3	Cell 4	Cell 5	Cell 6			
Cost Apportioned to Cell	100.0%								
Capital Cost	\$354,553								
Present Value Cost	\$139,568								
Present Value Demand Units	114.7								
Levy Amount	\$1,217.19								
List of Works Required					<u> </u>	1			
	Construction (excavation/reinstatement of trail edges and culvert in the creek) \$83,566								
	Concrete paving	rete paving (2.5 m wide reinforced concrete) \$188,114							
	Installation of sig	gns (qty 5)				\$1,053			
	Design & Project	Management (1	0% of construction	on cost)		\$27,273			
	Contingency (20	%)				\$54,547			
Costing Justification	Based on CRPI	OCP Future Tra	ffic Estimates &	Road Infrastru	ucture Requiren	nents (Rev 7)			
	report, John Pij Appendix 5 xl.	oer Traffic Pty L	.td / Ashton Tra	ffic Pty Ltd, Au	gust 2007. Item	n PC05			
Related Projects	DI_0S5a, DI_0	S5b							

Version



DI_TR_11 Pedestrian Rail Underpass - east of Cardinia Road (connection between Delfin and community south of railway line) Continuation of pedestrian network via rail underpass. Description Off-Road Pedestrian & Cycle Trails **Development Infrastructure** Project Cost \$1,390,500 **Project Timing** 2008 - 2013 Strategic Justification The project provides the new community with safe and efficient access along the Creek/Open Space corridor. External Usage Discount 0% Project Cost to MCA \$1,390,500 Apportionment of Costs This item is likely to be used equally by both the residents of Cells 4 & 6. MCA Cells Cell 4 Cell 6 Cost Apportioned to Cell 50.0% 50.0% Capital Cost \$695,250 \$695,250 Present Value Cost \$490.124 \$490.124 Present Value Demand Units 154.3 74.9 Levy Amount \$3,176.56 \$6,541.43 List of Works Required Supply of Culverts \$90,000 Construction incl excavation for approaches, installation of culverts, backfill and 2.5m wide path under the rail reserve \$600,000 Construction of end walls \$40,000 Allowance for: \$100,000 drainage and pumping works service alterations \$100,000 traffic management \$100,000 Design & Project Management (10% of construction cost) \$103,000 Contingency (25%) \$257,500 Costing Justification Based on CRPDCP Future Traffic Estimates & Road Infrastructure Requirements (Rev 8) report, John Piper Traffic Pty Ltd / Ashton Traffic Pty Ltd, April 2008. Item PC06 Appendix Related Projects n/a

The Project Cost is expressed in December 2007 dollars.

Version

 Ref#
 Version

 24
 SEPTEMBER 2008



DI_TR_12	Pedestrian Rail Underpass - Along Gum Scrub Creek							
Description	Continuation of (Gum Scrub Creek) trail network via rail underpass.							
	In	frastructure T	V/DQ	Inf	rastructure Categ	iory		
		opment Infras			d Pedestrian & Cy			
Project Cost	\$1,390,500	phileiit iiiiias	tructure	OII-Noac	redestrian & Cy	cie italis		
Project Timing	2013 - 2018							
Strategic Justification			community with s	safe and effic	cient access along	gthe		
External Usage Discount	0%							
Project Cost to MCA	\$1,390,500							
Apportionment of Costs	This item is likely	to be used equ	ually by both the resi	idents of Cells	3 & 5.			
MCA Cells	Cell 1	Cell 2	Cell 3	Cell 4	Cell 5	Cell 6		
Cost Apportioned to Cell			50.0%		50.0%			
Capital Cost			\$695,250		\$695,250			
Present Value Cost			\$366,249		\$366,249			
Present Value Demand Units			31.7		65.0			
Levy Amount			\$11,570.61		\$5,638.27			
List of Works Required		excavation for	approaches, installa	ation of culvert	ts, backfill and 2.5	\$90,000		
	m wide path und		ve			\$600,000 \$40,000		
	Allowance for:							
	- drainage and p	umping works				\$100,000		
	- service alteration	ons				\$100,000		
	- traffic manager	ment				\$100,000		
	Design & Project	Management (10% of construction	cost)		\$103,000		
	Contingency (25	%)				\$257,500		
Costing Justification			affic Estimates & F Ltd / Ashton Traff		•	, ,		
Related Projects	DI_0S4a, DI_0	S 4h						
Holatea Frojecto	51_007a, DI_0	<u>_</u> v						

Version



DI_TR_13 Pedestrian Bridge over Toomuc Creek (between railway line and Freeway) Pedestrian Bridge constructed over Toomuc Creek (south of railway line to connect the Description community east and west of the Toomuc Creek) **Development Infrastructure** Off-Road Pedestrian & Cycle Trails Project Cost \$253,500 **Project Timing** 2013 - 2018 Strategic Justification The project provides the new community with safe and efficient access along the Creek/Open Space corridor. External Usage Discount 50% Project Cost to MCA \$126,750 Apportionment of Costs This item is likely to be used equally by both the residents of Cell 6 and the community directly to the east of the cell 6 boundary Cell 6 MCA Cells Cell 4 Cost Apportioned to Cell 50.0% Capital Cost \$126,750 Present Value Cost \$66,770 Present Value Demand Units 74.9 Levy Amount \$891.15 List of Works Required Construction of a timber and steel bridge \$195,000 Design & Project Management (10% of construction cost) \$19,500 Contingency (20%) \$39,000 Costing Justification Based on CRPDCP Future Traffic Estimates & Road Infrastructure Requirements (Rev 7) report, John Piper Traffic Pty Ltd / Ashton Traffic Pty Ltd, August 2007. Item PC03D Appendix 5 xxxvii. Related Projects DI_0S6

The Project Cost is expressed in December 2007 dollars.

Version

SEPTEMBER 2008

Ref#

26



DI_TR_14 Shared Path - Along Pakenham Bypass, between Gum Scrub **Creek & Toomuc Creek** Shared path trail network alongside the Pakenham Bypass, 3 m wide reinforced concrete Description for a length of 4 km. **Development Infrastructure** Off-Road Pedestrian & Cycle Trails Project Cost \$1,513,663 **Project Timing** 2013 - 2018 Strategic Justification The project provides the new community with safe and efficient access along the Creek/Open Space corridor. External Usage Discount 0% Project Cost to MCA \$1,513,663 Apportionment of Costs Apportioned evenly to Cells 5&6 in accordance with the projected dwelling yield of each cell. The item is likely to be used equally by residents of both cells. Cell 5 Cell 6 MCA Cells Cost Apportioned to Cell 45.2% 54.8% Capital Cost \$683,873 \$829,790 Present Value Cost \$360.256 \$437.123 Present Value Demand Units 65.0 74.9 \$5,834.06 Levy Amount \$5,546.00 List of Works Required Concrete path construction \$755,384 Bridges (3 over creeks 20 m span @ \$84224) \$252,672 \$94,752 Culverts over small waterways Signs & linemarking \$18,424 \$168,185 Design & Project Management (15% of construction cost) Contingency (20%) \$224,246 Costing Justification Based on CRPDCP Future Traffic Estimates & Road Infrastructure Requirements (Rev 7) report, John Piper Traffic Pty Ltd / Ashton Traffic Pty Ltd, August 2007. Item PC03 Appendix 5 xlii. Related Projects N/A

The Project Cost is expressed in December 2007 dollars.

Version



DI LA 1 Land required for Cardinia Road Duplication (from Princes **Highway to Shearwater Drive)** Land required for road widening to allow for a 40 m reservation of Cardinia Road (1.05 Description ha) (20 m road widening @ 525 m in length). **Development Infrastructure** Roads Project Cost \$785,531 **Project Timing** 2008 - 2013 Strategic Justification This project is required to provide for the orderly and proper development of the area and ensures traffic growth is directed to the arterial road network. External Usage Discount 38% Project Cost to MCA \$483,887 Apportionment of Costs Cost apportionment based upon CRPDCP Future Traffic Estimates & Road Infrastructure Requirements (Rev 4) report, John Piper Traffic Pty Ltd / Ashton Traffic Pty Ltd, April 2008 (point 'N') Cell 3 MCA Cells Cell 2 Cell 5 Cost Apportioned to Cell 33.8% 10.6% 3.1% 2.1% 12.0% Capital Cost \$265,510 \$83,266 \$24,351 \$16,496 \$94,264 Present Value Cost \$250.481 \$78.553 \$22.973 \$15.562 \$88.928 Present Value Demand Units 115.5 69.4 41.2 65.9 93.2 \$1,131.25 \$557.02 Levy Amount \$2,168.83 \$236.22 \$954.28 List of Works Required Land only. 20 m reservation along Cardinia Road from Princes Highway to Shearwater Drive (525 m in length). 1.05 ha 1.05ha x \$748125 per ha \$785,531 Costing Justification Estimated land value for the parcel/s as per Valuation Reports, Westlink Consulting, December 2007. (Ref 1701153800) **Related Projects** DI_R01, DI_R016, DI_R018

The Project Cost is expressed in December 2007 dollars.

Version



DI LA 2 Land required for Cardinia Road Duplication & Grade Separated Crossing Land required for road Grade Separated Crossing and road widening for Cardinia Road Description from Shearwater Drive to Henry Road extension (3.25 ha). **Development Infrastructure** Roads \$2,476,094 Project Cost **Project Timing** 2008 - 2013 Strategic Justification This project is required to provide for the orderly and proper development of the area and ensures traffic growth is directed to the arterial road network. External Usage Discount 51% Project Cost to MCA \$1,223,190 Apportionment of Costs Cost apportionment based upon CRPDCP Future Traffic Estimates & Road Infrastructure Requirements (Rev 4) report, John Piper Traffic Pty Ltd / Ashton Traffic Pty Ltd, April 2008 (point 'O') Cell 2 Cell 3 MCA Cells Cell 5 Cost Apportioned to Cell 19.7% 7.1% 10.2% 1.6% 10.8% Capital Cost \$487,790 \$175,803 \$252,562 \$39,618 \$267,418 Present Value Cost \$460.180 \$165.852 \$238,266 \$37.375 \$252.281 Present Value Demand Units 115.5 69.4 41.2 65.9 93.2 \$5,777.10 \$2,707.22 Levy Amount \$3,984.55 \$2,388.43 \$567.32 List of Works Required and only. For Grade Separated Crossing and road widening from Shearwater Drive to Henry Road extension. 3.25 ha 3.25ha x \$761875 per ha \$2,476,094 Costing Justification Estimated land value for the parcel/s as per Valuation Reports, Westlink Consulting, December 2007. (Ref 1701153800 & 4160250100) **Related Projects** DI_RO2a, DI_RO2b, DI_RO2c, DI_RO2d, DI_RO18, DI_RO19a

The Project Cost is expressed in December 2007 dollars.

Version

Ref# 29 SEPTEMBER 2008



DI LA 3 Land required for Cardinia Road Duplication (from Henry Road extension to Pakenham Bypass) Land required for road widening to allow for a 40 m reservation of Cardinia Road (0.4 ha) Description (20 m road widening @ 200 m in length). **Development Infrastructure** Roads Project Cost \$366,982 **Project Timing** 2008 - 2013 Strategic Justification This project is required to provide for the orderly and proper development of the area and ensures traffic growth is directed to the arterial road network. External Usage Discount 41% Project Cost to MCA \$216,153 Apportionment of Costs Cost apportionment based upon CRPDCP Future Traffic Estimates & Road Infrastructure Requirements (Rev 4) report, John Piper Traffic Pty Ltd / Ashton Traffic Pty Ltd, April 2008 (point 'P') Cell 2 Cell 3 MCA Cells Cell 5 Cost Apportioned to Cell 11.4% 3.7% 5.0% 14.4% 24.4% Capital Cost \$41,836 \$13,578 \$18,349 \$52,845 \$89,544 Present Value Cost \$39,468 \$12.810 \$17,310 \$49.854 \$84.475 Present Value Demand Units 115.5 69.4 41.2 65.9 93.2 \$184.47 \$419.72 \$906.50 Levy Amount \$341.74 \$756.74 List of Works Required and only. 20 m reservation along Cardinia Road from Henry Road extension to Pakenham Bypass (200 m in length). 0.4 ha 0.4ha x \$917456 per ha \$366,982 Costing Justification Estimated land value for the parcel/s as per Valuation Reports, Westlink Consulting, December 2007. (Ref 4160200100 & 4160250300) **Related Projects** DI_R03, DI_R019a The Project Cost is expressed in December 2007 dollars.

Nurba

DI_LA_4a Land required for Henry Road extension (east of Cardinia Road) (Stage 1) A 33 m reservation is required for Henry Road (Local Arterial Road (Divided)). The DCP is Description to only fund the difference between the amount of land required to upgrade the road from a Local Arterial Road (Undivided) standard to a Local Arterial Road (Divided) standard. **Development Infrastructure** Roads Project Cost \$815,556 **Project Timing** 2008 - 2013 Strategic Justification This project is required to provide for the orderly and proper development of the area and ensures traffic growth is directed to the local arterial road network. External Usage Discount 0% Project Cost to MCA \$815,556 Apportionment of Costs Apportioned to Cell 6. The item is likely to be used by residents of Cell 6 only and provides a landscaped boulevard that will enhance the amenity of Cell 6. Cell 6 MCA Cells Cell 4 Cost Apportioned to Cell 100.0% Capital Cost \$815,556 Present Value Cost \$574.935 Present Value Demand Units 93.2 Levy Amount \$6,169.60 List of Works Required Land only. 33 m reservation - 24 m reservation = 9 m reservation to be funded by the DCP for a total of 870 m in length. 0.783 ha 0.783ha x \$1041579 per ha Costing Justification Estimated land value for the parcel/s as per Valuation Reports, Westlink Consulting, December 2007. (Ref 4160200100) **Related Projects** DI_R06a, DI_R019a, DI_R019b, DI_R020

The Project Cost is expressed in December 2007 dollars.

Version Ref# SEPTEMBER 2008



DI_LA_4b Land required for Henry Road extension (east of Cardinia Road) (Stage 2) A 33 m reservation is required for Henry Road (Local Arterial Road (Divided)). The DCP is Description to only fund the difference between the amount of land required to upgrade the road from a Local Arterial Road (Undivided) standard to a Local Arterial Road (Divided) standard. **Development Infrastructure** Roads Project Cost \$1,036,371 **Project Timing** 2008 - 2013 Strategic Justification This project is required to provide for the orderly and proper development of the area and ensures traffic growth is directed to the local arterial road network. External Usage Discount 0% Project Cost to MCA \$1,036,371 Apportionment of Costs Apportioned to Cell 6. The item is likely to be used by residents of Cell 6 only. MCA Cells Cell 4 Cost Apportioned to Cell 100.0% Capital Cost \$1,036,371 Present Value Cost \$730.601 Present Value Demand Units 93.2 \$7,840.04 Levy Amount List of Works Required Land only. 33 m reservation - 24 m reservation = 9 m reservation to be funded by the DCP for a total of 1105 m in length. 0.995 ha 0.995ha x \$1041579 per ha \$1,036,371 Costing Justification Estimated land value for the parcel/s as per Valuation Reports, Westlink Consulting, December 2007. Related Projects DI_R06b, DI_R020, DI_R07

The Project Cost is expressed in December 2007 dollars.

Version





DI_LA_5a Land required for Henry Road extension (west of Cardinia Road) (Stage 1) A 33 m reservation is required for Henry Road (Local Arterial Road (Divided)). The DCP is Description to only fund the difference between the amount of land required to upgrade the road from a Local Arterial Road (Undivided) standard to a Local Arterial Road (Divided) standard. From Cardinia Road to the second roundabout the length is 1200 m. **Development Infrastructure** Roads Project Cost \$872,666 **Project Timing** 2008 - 2013 Strategic Justification This project is required to provide for the orderly and proper development of the area and ensures traffic growth is directed to the local arterial road network. External Usage Discount 0% Project Cost to MCA \$872,666 Apportionment of Costs Apportioned to Cell 5. The item is likely to be used by residents of Cell 5 only. Cell 5 MCA Cells Cell 4 Cost Apportioned to Cell 100.0% Capital Cost \$872,666 Present Value Cost \$615.195 Present Value Demand Units 65.9 Levy Amount \$9,338.12 List of Works Required Land only. 33 m reservation - 24 m reservation = 9 m reservation to be funded by the DCP for a total of 1200 m in length. 1.1 ha 1.1 ha x \$793333 per ha \$872,666 Costing Justification Estimated land value for the parcel/s as per Valuation Reports, Westlink Consulting, December 2007. (Ref 4160250300) **Related Projects** DI_R08a, DI_R019a, DI_R021a, DI_R021b

The Project Cost is expressed in December 2007 dollars.

Version

Ref# 33 SEPTEMBER 2008



DI_LA_5b Land required for Henry Road extension (west of Cardinia Road) (Stage 2) A 33 m reservation is required for Henry Road (Local Arterial Road (Divided)). The DCP is Description to only fund the difference between the amount of land required to upgrade the road from a Local Arterial Road (Undivided) standard to a Local Arterial Road (Divided) standard. From Stage 1 to the DCP boundary the length is 700 m. **Development Infrastructure** Roads Project Cost \$269,209 **Project Timing** 2008 - 2013 Strategic Justification This project is required to provide for the orderly and proper development of the area and ensures traffic growth is directed to the local arterial road network. External Usage Discount 0% Project Cost to MCA \$269,209 Apportionment of Costs Apportioned to Cell 5. The item is likely to be used by residents of Cell 5 only. Cell 5 MCA Cells Cell 4 Cost Apportioned to Cell 100.0% Capital Cost \$269,209 Present Value Cost \$189.781 Present Value Demand Units 65.9 Levy Amount \$2,880.71 List of Works Required Land only. 33 m reservation - 24 m reservation = 9 m reservation to be funded by the DCP for a total of 700 m in length. 0.6 ha 0.6ha x \$448681 per ha \$269,209 Costing Justification Estimated land value for the parcel/s as per Valuation Reports, Westlink Consulting, December 2007. (Ref 1643550500) **Related Projects** DI_R08b, DI_R09b, DI_R021b

The Project Cost is expressed in December 2007 dollars.

Version

SEPTEMBER 2008

Ref#



DI_LA_6 Land required for northern East West Road (west of Cardinia Road extension) A 33 m reservation is required for the northern East West Road extension (Local Arterial Description Road (Divided)). The DCP is to only fund the difference between the amount of land required to upgrade the road from a Local Arterial Road (Undivided) standard to a Local Arterial Road (Divided) standard for a length of 1420m. **Development Infrastructure** Roads Project Cost \$269,209 **Project Timing** 2018 - 2023 Strategic Justification This project is required to provide for the orderly and proper development of the area and ensures traffic growth is directed to the local arterial road network. External Usage Discount 0% Project Cost to MCA \$269,209 Apportionment of Costs Apportioned to Cell 1. The item is likely to be used by residents of Cell 1 only. Cell 1 MCA Cells Cost Apportioned to Cell 100.0% Capital Cost \$269,209 Present Value Cost \$105.973 Present Value Demand Units 115.5 Levy Amount \$917.59 List of Works Required Land only. 33 m reservation - 24 m reservation = 9 m reservation to be funded by the DCP for a total of 1420 m in length. 1.278 ha 1.278ha x \$320000 per ha \$269,209 **Costing Justification** Estimated land value for the parcel/s as per Valuation Reports, Westlink Consulting, December 2007. (Ref 1678650400,1678650300, 1678650200, 1678650100, 1135950800, 1567950200, 1567950200) **Related Projects** DI_R010, DI_R022b, DI_R024

The Project Cost is expressed in December 2007 dollars.

Version

Ref#



DI_LA_/	Land required for northern East West Road (east of Cardinia								
	Road extension)								
Description	A 33 m reservation is required for the northern East West Road (Local Arterial Ro (Divided)). The DCP is to only fund the difference between the amount of land rec upgrade the road from a Local Arterial Road (Undivided) standard to a Local Arte (Divided) standard. From the western boundary of Lot 6, LP213299 (Peck Road) Thewlis Road the length is 975 m.								
		frastructure Typ		Infi	rastructure Cate	gory			
		pment Infrastr	ucture		Roads				
Project Cost	\$392,174								
Project Timing	2008 - 2013								
Strategic Justification	This project is reensures traffic				development o etwork.	f the area and			
External Usage Discount	0%								
Project Cost to MCA	\$392,174								
Apportionment of Costs	Apportioned to C	ell 1. The item is	likely to be used	by residents of (Cell 1 only.				
MCA Cells	Cell 1	Cell 2	Cell 3	Cell 4	Cell 5	Cell 6			
Cost Apportioned to Cell	100.0%								
Capital Cost	\$392,174								
Present Value Cost	\$276,467								
Present Value Demand Units	115.5								
Levy Amount	\$2,393.84								
List of Works Required	Land only. 33 m reservation - 24 m reservation = 9 m reservation to be funded by the DCP for a total of 975 m in length. 0.878 ha								
	0.878ha x \$446	667 per ha				\$392,174			
				(1 vi B					
Costing Justification	December 200				orts, Westlink Co	onsulting,			
Related Projects	DI_R011, DI_R	022a, DI_R022	2b						

Version

36

Ref# SEPTEMBER 2008



DI_LA_8	Land required for Cardinia Road extension (northern link)									
Description	The DCP is to o	A 33 m reservation is required for Cardinia Road extension (Local Arterial Road (Divided)). The DCP is to only fund the difference between the amount of land required to upgrade the road from a Local Arterial Road (Undivided) standard to a Local Arterial Road (Divided) standard. From Princes Highway the length is 250 m.								
	In	frastructure Typ	е	Inf	rastructure Cate	gorv				
		opment Infrastru			Roads					
Project Cost	\$91,125			•						
Project Timing	2008 - 2013									
Strategic Justification	-	required to prov growth is direct			r development o etwork.	f the area and				
External Usage Discount	0%									
Project Cost to MCA	\$91,125									
Apportionment of Costs	Apportioned to C	ell 1. The item is	likely to be used	by residents of	Cell 1 only.					
MCA Cells	Cell 1	Cell 2	Cell 3	Cell 4	Cell 5	Cell 6				
Cost Apportioned to Cell	100.0%									
Capital Cost	\$91,125									
Present Value Cost	\$64,240									
Present Value Demand Units	115.5									
Levy Amount	\$556.23									
List of Works Required	Land only. 33 m reservation - 24 m reservation = 9 m reservation to be funded by the DCP for a total of 250 m in length. 0.2 ha									
	Lot 8, LP213300) Princes Highway	(0.2 ha)			\$91,125				
Costing Justification		value for the particle of the		Valuation Repo	orts, Westlink Co	onsulting,				
Related Projects	DI_R012, DI_R	016								

Version

Ref# SEPTEMBER 2008



DI_LA_9 Land required for road widening of Thewlis Road (10 m) Land required for road widening to allow for a 33 m reservation for Thewlis Road from Description Princes Highway to the northern East West Road (13 m road widening reservation) (for a length of 400 m). **Development Infrastructure** Roads Project Cost \$780,200 **Project Timing** 2008 - 2013 Strategic Justification This project is required to provide for the orderly and proper development of the area and ensures traffic growth is directed to the local arterial road network. External Usage Discount 0% Project Cost to MCA \$780,200 Apportionment of Costs Apportioned to the area north of the Princes Highway (Cells 1&2) in accordance with the projected dwelling yield of each cell. The item is likely to be used equally by residents of both cells. Cell 2 MCA Cells Cell 4 Cell 6 Cost Apportioned to Cell 70.3% 29.7% Capital Cost \$548,741 \$231,459 Present Value Cost \$386.841 \$163.170 Present Value Demand Units 115.5 69.4 \$2,349.81 Levy Amount \$3,349.53 List of Works Required Land only. 13 m reservation required for road widening, total of 400 m in length. 0.5 ha 795 Princes Hwy (0.1 ha) \$314,000 Lot 1-2, PS439933x Princes Hwy (0.42 ha) \$466,200 **Costing Justification** Estimated land value for the parcel/s as per Valuation Reports, Westlink Consulting, December 2007. (Ref 1701104500 & 1701104600) **Related Projects** DI_R013, DI_R022a, DI_R017

The Project Cost is expressed in December 2007 dollars.

Version



DI_LA_10a Land required for Lakeside Drive extension (northern link) (Stage 1) A 33 m reservation is required for Lakeside Drive (Local Arterial Road (Divided)). The DCP Description is to only fund the difference between the amount of land required to upgrade the road from a Local Arterial Road (Undivided) standard to a Local Arterial Road (Divided) standard for a length of 151 m from Princes Highway. **Development Infrastructure** Roads Project Cost \$229,501 **Project Timing** 2008 - 2013 Strategic Justification This project is required to provide for the orderly and proper development of the area and ensures traffic growth is directed to the local arterial road network. External Usage Discount 0% Project Cost to MCA \$229,501 Apportionment of Costs Apportioned to Cell 2. The item is likely to be used by residents of Cell 2 only. Cell 2 MCA Cells Cell 4 Cost Apportioned to Cell 100.0% Capital Cost \$229,501 Present Value Cost \$216.510 Present Value Demand Units 69.4 Levy Amount \$3,117.98 List of Works Required Land only. 33 m reservation - 24 m reservation = 9 m reservation to be funded by the DCP for a total of 151 m in length. 0.1359 ha 0.1359ha x \$1688750 per ha \$229,501 **Costing Justification** Estimated land value for the parcel/s as per Valuation Reports, Westlink Consulting, December 2007. (Ref 1701104710 & 5000000892) Related Projects DI_RO14a

The Project Cost is expressed in December 2007 dollars.

Version

Ref# SEPTEMBER 2008

39



DI_LA_10b Land required for Lakeside Drive extension (northern link) (Stage 2) A 33 m reservation is required for Lakeside Drive extension (Local Arterial Road (Divided)). Description The DCP is to only fund the difference between the amount of land required to upgrade the road from a Local Arterial Road (Undivided) standard to a Local Arterial Road (Divided) standard for a length of 299 m from Stage 1 to the northern East West Road. **Development Infrastructure** Roads Project Cost \$439,194 **Project Timing** 2008 - 2013 Strategic Justification This project is required to provide for the orderly and proper development of the area and ensures traffic growth is directed to the local arterial road network. External Usage Discount 0% Project Cost to MCA \$439,194 Apportionment of Costs Apportioned to Cell 2. The item is likely to be used by residents of Cell 2 only. Cell 2 MCA Cells Cost Apportioned to Cell 100.0% Capital Cost \$439,194 Present Value Cost \$309.614 Present Value Demand Units 69.4 \$4,458.77 Levy Amount List of Works Required Land only. 33 m reservation - 24 m reservation = 9 m reservation to be funded by the DCP for a total of 299 m in length. 0.2691 ha 0.2691ha x \$1632083 per ha \$439,194 **Costing Justification** Estimated land value for the parcel/s as per Valuation Reports, Westlink Consulting, December 2007. (Ref 1701104710, 5000000892 & 5000000893) **Related Projects** DI_R014b, DI_R023

The Project Cost is expressed in December 2007 dollars.

Version

Ref# 40 SEPTEMBER 2008



DI_LA_11 Land required for Railway Station & carparking Land required for railway station 1.6 ha on the south side of the railway line reservation. Description **Public Transport Development Infrastructure** Project Cost \$1,666,526 **Project Timing** 2008 - 2013 Strategic Justification This project seeks to achieve a reduced dependence on car use through the provision of a new station and suburban rail service along the Pakenham railway line. External Usage Discount 0% Project Cost to MCA \$1,666,526 Apportionment of Costs Apportioned evenly to Cells 1,2,3,5&6 in accordance with the projected dwelling yield of each cell. This item is likely to be used by residents of the entire DCP area. An equivalent item has already been provided in Cell 4. Cell 3 MCA Cells Cell 1 Cell 2 Cell 5 Cost Apportioned to Cell 31.2% 13.2% 9.2% 20.9% 25.4% Capital Cost \$520,663 \$219,616 \$153,664 \$349,053 \$423,530 Present Value Cost \$367.047 \$154.821 \$108.327 \$246.069 \$298.572 Present Value Demand Units 114.7 37.3 31.7 65.0 74.9 \$3,422.29 \$3,984.88 Levy Amount \$3,201.06 \$4,145.91 \$3,788.13 List of Works Required Land only. 1.6 ha 1.6ha x \$1041579 per ha \$1,666,526 **Costing Justification** Estimated land value for the parcel/s as per Valuation Reports, Westlink Consulting, December 2007. (Ref 4160200100) Related Projects N/A

The Project Cost is expressed in December 2007 dollars.

Version

Ref# SEPTEMBER 2008



DI_LA_12	Land required for District Sports Reserve - Henry Road (east)							
Description		Land required for District Sports Reserve located on Henry Road extension (east of Cardinia Road) (8 ha)						
	In	frastructure Typ	ne	Infrastructure Category				
		opment Infrastr			Open Space	80.7		
Project Cost	\$3,600,000	opmone mindou	dotaro		орон орасо			
Project Timing	2008 - 2013							
Strategic Justification		required to prov	vide adequate a	active recreation	n facilities for th	ne new		
External Usage Discount	0%							
Project Cost to MCA	\$3,600,000							
Apportionment of Costs		•	rea in accordance nts of the entire I		ed dwelling yield	of each cell. The		
MCA Cells	Cell 1	Cell 2	Cell 3	Cell 4	Cell 5	Cell 6		
Cost Apportioned to Cell	23.6%	10.0%	7.0%	24.5%	15.8%	19.2%		
Capital Cost	\$849,319	\$358,244	\$250,661	\$881,521	\$569,384	\$690,872		
Present Value Cost	\$801,244	\$337,966	\$236,472	\$831,623	\$537,155	\$651,766		
Present Value Demand Units	114.7	37.3	31.7	154.3	65.0	74.9		
Levy Amount	\$6,987.73	\$9,050.31	\$7,470.68	\$5,389.87	\$8,269.29	\$8,698.79		
List of Works Required	Land only. 8 ha							
	8ha x \$450000	per ha				\$3,600,000		
Costing Justification Related Projects	_	07. (Ref 438250	, ,	Valuation Repo	rts, Westlink Co	insulting,		
Melateu Projects	DI_0311, U_0	JZ, DI_UF4						

Version



DI LA 13 Land required for District Sports Reserve - Henry Road (west) / **Gum Scrub Creek** Land required for District Sports Reserve located on Henry Road extension (west of Description Cardinia Road, abutting Gum Scrub Creek) (8 ha) **Development Infrastructure** Open Space Project Cost \$3,589,448 **Project Timing** 2008 - 2013 Strategic Justification This project is required to provide adequate active recreation facilities for the new community. External Usage Discount 0% Project Cost to MCA \$3,589,448 Apportionment of Costs Apportioned evenly across DCP area in accordance with the projected dwelling yield of each cell. The item is likely to be used by residents of the entire DCP area. Cell 2 Cell 3 Cell 5 MCA Cells Cell 1 Cell 4 Cell 6 Cost Apportioned to Cell 23.6% 10.0% 7.0% 24.5% 15.8% 19.2% Capital Cost \$846,830 \$357,193 \$249,926 \$878,937 \$567,715 \$688,847 Present Value Cost \$798.896 \$336.975 \$235,779 \$829.186 \$535.580 \$649.856 Present Value Demand Units 114.7 37.3 31.7 154.3 65.0 74.9 \$5,374.07 \$9,023.78 \$7,448.78 \$8,245.06 \$8,673.29 Levy Amount \$6,967.25 List of Works Required Land only. 8 ha 8ha x \$448681 per ha \$3,589,448 **Costing Justification** Estimated land value for the parcel/s as per Valuation Reports, Westlink Consulting, December 2007. (Ref 1643550500) **Related Projects** CI_OS_3, DI_OS12

The Project Cost is expressed in December 2007 dollars.

Version

SEPTEMBER 2008

Ref#

43



DI LA 14 Land required for District Parkland - north of Princes Highway Land required for Gum Scrub and Hill District Parkland, located north of Princes Highway Description (16.2 ha) **Development Infrastructure** Open Space Project Cost \$5,335,000 **Project Timing** 2008 - 2013 Strategic Justification The project incorporates the ridgeline and prominent hilltop to the east of Gum Scrub Creek north of the Princes Highway into district parkland along the Gum Scrub Creek. External Usage Discount 0% Project Cost to MCA \$5,335,000 Apportionment of Costs Apportioned evenly to Cells 1,2,3,5&6 in accordance with the projected dwelling yield of each cell. This item is likely to be used by residents of the entire DCP area. An equivalent item has already been provided in Cell 4. Cell 3 MCA Cells Cell 1 Cell 2 Cell 5 Cost Apportioned to Cell 31.2% 13.2% 9.2% 20.9% 25.4% Capital Cost \$1,666,784 \$703,051 \$491,920 \$1,117,413 \$1,355,833 Present Value Cost \$1.572.437 \$663.256 \$464.076 \$1.054.163 \$1.279.087 Present Value Demand Units 114.7 37.3 31.7 74.9 65.0 \$13,713.39 \$17,761.18 Levy Amount \$14,661.17 \$16,228.44 \$17,071.33 List of Works Required Land only. 16.2 ha Lot 1, LP143603 Princes Hwy (11.9 ha) \$3,540,000 \$225,000 565 Princes Hwy (0.5 ha) 585 Princes Hwy (1.3 ha) \$645,000 \$925,000 625 Princes Hwy (2.3 ha) **Costing Justification** Estimated land value for the parcel/s as per Valuation Reports, Westlink Consulting, December 2007. (Ref 1701103550, 1701103525, 1701103502, 1701103800) Related Projects DI_OS8a, DI_OS8b

The Project Cost is expressed in December 2007 dollars.

Version





DI_LA_15 Land required for Community Centre (Children's Services) -**Thewlis Road** Community Centre (Children's Services) - Thewlis Road area (0.4 ha) Description Community Facilities **Development Infrastructure** Project Cost \$178,667 **Project Timing** 2008 - 2013 Strategic Justification The project is required to provide adequate community facilities to the new community. External Usage Discount 0% Project Cost to MCA \$178,667 Apportionment of Costs Apportioned evenly to Cells 1,2,3,5&6 in accordance with the projected dwelling yield of each cell. The item forms part of a network of similar items within the DCP area. A similar item has already been provided in Cell 4. Cell 3 Cell 6 MCA Cells Cell 1 Cell 2 Cell 5 Cost Apportioned to Cell 31.2% 13.2% 9.2% 20.9% 25.4% Capital Cost \$55,820 \$23,545 \$16,474 \$37,422 \$45,406 Present Value Cost \$39.351 \$16.598 \$11.614 \$26.381 \$32.010 Present Value Demand Units 114.7 37.3 31.7 65.0 74.9 \$444.48 \$366.90 \$427.22 Levy Amount \$343.18 \$406.12 List of Works Required Land only. 0.4 ha 0.4ha x \$446667 per ha \$178,667 **Costing Justification** Estimated land value for the parcel/s as per Valuation Reports, Westlink Consulting, December 2007.(Ref 1701104400). Related Projects DI CF1

The Project Cost is expressed in December 2007 dollars.

Version



45



DI_LA_16 Land required for Community Centre (Children's Services) -Henry Road (east) Community Centre (Children's Services) - Cardinia Road/Henry Road area (0.4 ha) Description **Development Infrastructure** Community Facilities Project Cost \$416,632 **Project Timing** 2008 - 2013 Strategic Justification The project is required to provide adequate community facilities to the new community. External Usage Discount 0% Project Cost to MCA \$416,632 Apportionment of Costs Apportioned evenly to Cells 1,2,3,5&6 in accordance with the projected dwelling yield of each cell. The item forms part of a network of similar items within the DCP area. A similar item has already been provided in Cell 4. Cell 3 MCA Cells Cell 1 Cell 2 Cell 5 Cost Apportioned to Cell 31.2% 13.2% 9.2% 20.9% 25.4% Capital Cost \$130,166 \$54,904 \$38,416 \$87,263 \$105,882 Present Value Cost \$91.762 \$38,705 \$27,082 \$61.517 \$74.643 Present Value Demand Units 114.7 37.3 31.7 65.0 74.9 \$1,036.48 \$996.22 Levy Amount \$800.26 \$855.57 \$947.03 List of Works Required Land only. 0.4 ha 0.4ha x \$1041579 per ha \$416,632 **Costing Justification** Estimated land value for the parcel/s as per Valuation Reports, Westlink Consulting, December 2007. (Ref 4160200100) Related Projects DI CF2

The Project Cost is expressed in December 2007 dollars.

Version

SEPTEMBER 2008

Ref# 46



DI LA 17 Land required for Community Centre (Community Meeting Place) - Henry Road (east) Community Centre (Community Meeting Place) - Cardinia Road/Henry Road area (0.4 ha) Description **Development Infrastructure** Community Facilities Project Cost \$416,632 **Project Timing** 2008 - 2013 Strategic Justification The project is required to provide adequate community facilities to the new community. External Usage Discount 0% Project Cost to MCA \$416,632 Apportionment of Costs Apportioned evenly across DCP area in accordance with the projected dwelling yield of each cell. The item is likely to be used by residents of the entire DCP area. Cell 3 Cell 5 MCA Cells Cell 1 Cell 2 Cell 4 Cell 6 Cost Apportioned to Cell 23.6% 10.0% 7.0% 24.5% 15.8% 19.2% Capital Cost \$98,293 \$41,460 \$29,009 \$102,019 \$65,895 \$79,955 Present Value Cost \$69,292 \$29,228 \$20,450 \$71,920 \$46,454 \$56.365 Present Value Demand Units 114.7 37.3 31.7 154.3 65.0 74.9 \$782.68 \$752.28 Levy Amount \$604.31 \$646.07 \$466.12 \$715.14 List of Works Required Land only. 0.4 ha 0.4ha x \$1041579 per ha \$416,632 **Costing Justification** Estimated land value for the parcel/s as per Valuation Reports, Westlink Consulting, December 2007. (Ref 4160200100) Related Projects CI CF2

The Project Cost is expressed in December 2007 dollars.

Version



DI_LA_18 Land required for Community Centre (Children's Services) -Henry Road (west) Community Centre (Children's Services) - Henry Road, west of Cardinia Road (0.4 ha) Description **Development Infrastructure** Community Facilities Project Cost \$179,472 **Project Timing** 2013 - 2018 Strategic Justification The project is required to provide adequate community facilities to the new community. External Usage Discount 0% Project Cost to MCA \$179,472 Apportionment of Costs Apportioned evenly to Cells 1,2,3,5&6 in accordance with the projected dwelling yield of each cell. The item forms part of a network of similar items within the DCP area. A similar item has already been provided in Cell 4. Cell 3 Cell 6 MCA Cells Cell 1 Cell 2 Cell 5 Cost Apportioned to Cell 31.2% 13.2% 9.2% 20.9% 25.4% Capital Cost \$56,072 \$23,651 \$16,548 \$37,590 \$45,611 Present Value Cost \$29.538 \$12,459 \$8.718 \$19.802 \$24.027 Present Value Demand Units 114.7 37.3 31.7 65.0 74.9 \$320.68 Levy Amount \$257.60 \$333.64 \$275.41 \$304.85 List of Works Required Land only. 0.4 ha 0.4ha x \$448681 per ha \$179,472 Costing Justification Estimated land value for the parcel/s as per Valuation Reports, Westlink Consulting, December 2007. (Ref 1643550500) Related Projects DI CF3

The Project Cost is expressed in December 2007 dollars.

Version

SEPTEMBER 2008

Ref#

48



DI_LA_19	Land required for Library (Outside MCA)								
Description	Land outside MCA within Officer Precinct Structure Plan								
	In	frastructure Typ	oe	Infra	astructure Cate	gorv			
		opment Infrastr		I	mmunity Facilit				
Project Cost	\$540,000								
Project Timing	2018 - 2023								
Strategic Justification	The project is r	equired to prov	ide adequate fa	acilities to the n	ew community.				
External Usage Discount	60%								
Project Cost to MCA	\$216,000								
Apportionment of Costs			rea in accordance nts of the entire I		ed dwelling yield	of each cell. The			
MCA Cells	Cell 1	Cell 2	Cell 3	Cell 4	Cell 5	Cell 6			
Cost Apportioned to Cell	9.4%	4.0%	2.8%	9.8%	6.3%	7.7%			
Capital Cost	\$50,959	\$21,495	\$15,040	\$52,891	\$34,163	\$41,452			
Present Value Cost	\$20,060	\$8,461	\$5,920	\$20,820	\$13,448	\$16,318			
Present Value Demand Units	114.7	37.3	31.7	154.3	65.0	74.9			
Levy Amount	\$174.94	\$226.58	\$187.04	\$134.94	\$207.03	\$217.78			
List of Works Required	Land only 0.6 ha								
	0.6ha x \$90000	0 per ha				\$540,000			
Costing Justification Related Projects	Estimated land December 200 CI_CF1		arcel/s as per \	Valuation Repo	rts, Westlink Co	nsulting,			

Version

Ref# SEPTEMBER 2008



DI LA 20 Land required for Community Centre (Children's Services) -Princes Highway / Cardinia Road NAC Community Centre (Children's Services) - Princes Highway/Cardinia Road (0.3 ha) Description **Development Infrastructure** Community Facilities Project Cost \$150,000 **Project Timing** 2008 - 2013 Strategic Justification The project is required to provide adequate facilities to the new community. External Usage Discount 0% Project Cost to MCA \$150,000 Apportionment of Costs Apportioned evenly to Cells 1,2,3,5&6 in accordance with the projected dwelling yield of each cell. The item forms part of a network of similar items within the DCP area. A similar item has already been provided in Cell 4. Cell 3 MCA Cells Cell 1 Cell 2 Cell 5 Cost Apportioned to Cell 31.2% 13.2% 9.2% 20.9% 25.4% Capital Cost \$46,864 \$19,767 \$13,831 \$31,417 \$38,121 Present Value Cost \$33.037 \$13.935 \$9.750 \$22,148 \$26.874 Present Value Demand Units 114.7 37.3 31.7 65.0 74.9 \$308.03 \$358.67 Levy Amount \$288.12 \$373.16 \$340.96 List of Works Required Land only 0.3 ha 0.3ha x \$500000 per ha \$150,000 Costing Justification Estimated land value for the parcel/s as per Valuation Reports, Westlink Consulting, December 2007. Related Projects DI_CF_5

The Project Cost is expressed in December 2007 dollars.

Version

Ref#



Description Local						Highway		
	Local Park improvements (north of Princes Highway) (2 in total)							
_	Infrastructure Type Infrastructure (
	Development II		е		Open Space	<i>y</i>		
Project Cost \$264	,332		•					
Project Timing 2008	3 - 2013							
	This project is required to provide adequate active recreation facilities for the new community.							
External Usage Discount 0%								
Project Cost to MCA \$264	,332							
Apportionment of Costs Apport	tioned to Cell 1. The	item is likely	to be used	by residents of Co	ell 1 only.			
MCA Cells	Cell 1 Cell	2	Cell 3	Cell 4	Cell 5	Cell 6		
Cost Apportioned to Cell 10	00.0%							
	64,332							
Present Value Cost \$1	36,343							
	14.7							
	625.12							
List of Works Required Play/s	Play/sport/fitness equipment \$78,960							
Softba	all					\$2,632		
Edgin	g					\$5,264		
Fenci	ng (\$147 per lin m)					\$6,317		
Child	Child proof gate							
Shade	Shade structure \$15							
Desig	n & Project Manager	nent (10% of	constructio	n cost)		\$10,923		
Conti	ngency (10%)					\$12,015		
						(2 in total)		
						(,		
Costing Justification Costi	ng provided by Cou	ıncil.						
Related Projects N/A	roject Cost is express							

Version



DI_OS_1b	Local Park Improvements (Stage 2) - north of Princes Highway								
Description	Local Park imp	Local Park improvements (north of Princes Highway) (1 in total)							
	In	frastructure Ty	ре	Infr	astructure Cate	gory			
		pment Infrasti			Open Space				
Project Cost	\$132,166								
Project Timing	2013 - 2018								
Strategic Justification	This project is recommunity.	required to pro	vide adequate	active recreatio	n facilities for tl	ne new			
External Usage Discount	0%								
Project Cost to MCA	\$132,166								
Apportionment of Costs	Apportioned to C	ell 1. The item is	likely to be used	d by residents of C	Cell 1 only.				
MCA Cells	Cell 1	Cell 2	Cell 3	Cell 4	Cell 5	Cell 6			
Cost Apportioned to Cell	100.0%								
Capital Cost	\$132,166								
Present Value Cost	\$69,623								
Present Value Demand Units	114.7								
Levy Amount	\$607.19								
List of Works Required	Play/sport/fitness equipment \$78,96								
	Softball \$2,63								
	Edging \$5								
	Fencing (\$147 per lin m)								
	Child proof gate								
	Shade structure	Shade structure							
	Design & Project	Management (1	.0% of constructi	on cost)		\$10,923			
	Contingency (10	%)				\$12,015			
Costing Justification	Costing provide	ed by Council.							
Related Projects	N/A								
	The Project Cost	is expressed in	December 2007	dollars.					

Version



DI_0S_1c	Local Park Improvements (Stage 3) - north of Princes Highway								
Description	Local Park improvements (north of Princes Highway) (2 in total)								
	Ir	ıfrastructure Type	9	Infr	astructure Cate	gory			
		opment Infrastru			Open Space				
Project Cost	\$264,332								
Project Timing	2018 - 2023								
Strategic Justification	This project is community.	required to provi	de adequate	active recreatio	n facilities for tl	ne new			
External Usage Discount	0%								
Project Cost to MCA	\$264,332								
Apportionment of Costs		ccordance with the by residents of the			ocated in each ce	ell. Items are			
MCA Cells	Cell 1	Cell 2	Cell 3	Cell 4	Cell 5	Cell 6			
Cost Apportioned to Cell	50.0%	50.0%							
Capital Cost	\$132,166	\$132,166							
Present Value Cost	\$52,027	\$52,027							
Present Value Demand Units	114.7	37.3							
Levy Amount	\$453.73	\$1,393.21							
List of Works Required	Play/sport/fitness equipment \$78,960								
	Softball \$2,632								
	Edging					\$5,264			
	Fencing (\$147 p	Fencing (\$147 per lin m) \$6,31							
	Child proof gate	Child proof gate \$263							
	Shade structure	Shade structure \$15,79							
	Design & Project	t Management (10	% of constructi	on cost)		\$10,923			
	Contingency (10	%)				\$12,015			
						(2 in total)			
Costing Justification	Costing provide	ed by Council.							
Related Projects	N/A								
		is expressed in De	2007	-1-11					

Version



DI_OS_2a	Local Park Improvements (Stage 1) - South of Princes Highway							
Description	Local Park impro	Local Park improvements (south of Princes Highway) (3 in total)						
	Infra	astructure Ty	/ne	Inf	rastructure Cate	gorv		
		ment Infrast			Open Space	8)		
Project Cost	\$396,498				орон ороно			
Project Timing	2008 - 2013							
Strategic Justification	This project is recommunity.	quired to pro	ovide adequate a	ctive recreatio	on facilities for th	ne new		
External Usage Discount	0%							
Project Cost to MCA	\$396,498							
Apportionment of Costs			the overall number the cell they are loo		located in each ce	ell. Items are		
MCA Cells	Cell 1	Cell 2	Cell 3	Cell 4	Cell 5	Cell 6		
Cost Apportioned to Cell			33.3%		33.3%	33.3%		
Capital Cost			\$132,166		\$132,166	\$132,166		
Present Value Cost			\$93,172		\$93,172	\$93,172		
Present Value Demand Units			31.7		65.0	74.9		
Levy Amount			\$2,943.50		\$1,434.34	\$1,243.52		
List of Works Required	Play/sport/fitness equipment \$78,960							
	Softball	pall						
	Edging					\$5,264		
	Fencing (\$147 per	lin m)				\$6,317		
	Child proof gate					\$263		
	Shade structure					\$15,792		
	0 ,		10% of construction	n cost)		\$10,923		
	Contingency (10%)					\$12,015 (3 in total)		
						(0.000)		
Costing Justification	Costing provided	by Council.						
Related Projects	N/A							

Version

Ref#





DI_OS_2b	Local Park	Improvem	ents (Stage	e 2) - south	of Princes	Highway		
Description	Local Park improvements (south of Princes Highway) (4 in total)							
	Ir	nfrastructure Ty	rastructure Cate	astructure Category				
	Devel	opment Infrast	ructure		Open Space			
Project Cost	\$528,664							
Project Timing	2008 - 2013							
Strategic Justification	This project is community.	required to pro	vide adequate a	active recreation	on facilities for th	ne new		
External Usage Discount	0%							
Project Cost to MCA	\$528,664							
Apportionment of Costs	Apportioned in accordance with the overall number of items to be located in each cell. Items are likely to be used by residents of the cell they are located within.							
MCA Cells	Cell 1	Cell 2	Cell 3	Cell 4	Cell 5	Cell 6		
Cost Apportioned to Cell					25.0%	75.0%		
Capital Cost					\$132,166	\$396,498		
Present Value Cost					\$93,172	\$279,515		
Present Value Demand Units					65.0	74.9		
Levy Amount					\$1,434.34	\$3,730.55		
List of Works Required	Play/sport/fitne	ss equipment				\$78,960		
	Softball					\$2,632		
	Edging					\$5,264		
	Fencing (\$147 p	per lin m)				\$6,317		
	Child proof gate					\$263		
	Shade structure					\$15,792		
	Design & Projec	t Management (2	LO% of construction	on cost)		\$10,923		
	Contingency (10	9%)				\$12,015		
						(4 in total)		
Costing Justification	Costing provid	ed by Council.						
Related Projects	N/A							

Version





DI_OS_3a

Quirks Creek Retarding Basin - Rehabilitation and Conservation (Stage 1)

Description

The Quirks Creek Corridor is to be developed primarily as a Retarding Basin, however there will be opportunities for rehabilitation and revegetation, with scattered tree groupings, outside any flow/retarding areas, with a grassed understorey.

Infrastructure Type	Infrastructure Category			
Development Infrastructure	Open Space			
\$4,901,710				

Project Cost

Project Timing 2008 - 2013

Strategic Justification

This project allows for the further enhancement of a Melbourne Water retarding basin.

External Usage Discount

Project Cost to MCA

Apportionment of Costs

\$4,901,710

0%

Apportioned evenly across Cells 1, 3 and 5 (in accordance with projected dwelling yield). Although the retarding basin is in an encumbered area within Cell 1, the provision of the basin reduces the drainage constraints of Cell 3 and 5. This area is also likely to be used by the residents within Cell 1, 3 and 5 as it is linked via the trail network adjacent to gum scrub creek.

MCA Cells	Cell 1	Cell 2	Cell 3	Cell 4	Cell 5	Cell 6
Cost Apportioned to Cell	50.9%		15.0%		34.1%	
Capital Cost	\$2,493,834		\$736,009		\$1,671,868	
Present Value Cost	\$1,758,054		\$518,857		\$1,178,601	
Present Value Demand Units	114.7		31.7		65.0	
Levy Amount	\$15,332.17		\$16,391.83		\$18,144.12	

List of Works Required

Broad weed / pest plant and grass removal to creek zone (150000 m2 @ \$5)	\$750,000
Broad Weed / pest and plant removal to open space (70000 m2 @ \$1)	\$70,000
Minor regrading/excavation works to open space retarding basin zone (70000 m2	
@ \$5)	\$350,000
Erosion control to creek bank rehabilitation zones, Assumed 1/3 total area (50000	
m2 @ \$6)	\$500,000
Immediate creek bank zone revegetation native shrubs / tufts (tubestock) at 4 no.	
per m2 (260000 @ \$6)	\$1,560,000
Upper creek bank zone revegetation (1/3 of zone) native shrubs (tubestock) at 4	
no. per m2 (100000 @ \$6)	\$600,000
Upper creek bank zone revegetation (1/3 of zone) native trees (tubestock) at 1 per	
8 m2 with mulch bowl tree guard and weed control mat (7000 @ \$11)	\$77,000
Retarding basin zone - scattered tree groupings, tubestock with mulch bowl, tree	
guard and weed control mat. Native trees at 1 per 20 m2 (4000 @ \$11)	\$44,000
Hydroseed grassing to retarding basin, creek bank (part) (assume re-use of existing	
topsoil) (100000 m2 @ \$1)	\$100,000
Design & Project Management (10% of construction cost)	\$405,100
Contingency (10%)	\$445,610

Costing Justification

Based on Revised Indicative Opinion of Probable Cost, Land Design Partnership, 3 June 2008 (excludes GST and yearly maintenance works). Melbourne Water development works of any earthworks, drainage infrastructure, head wall etc required to establish the retarding basin are also excluded.

Related Projects

DI_OS3b

The Project Cost is expressed in December 2007 dollars.

Version



DI_OS_3b

Quirks Creek Retarding Basin - Rehabilitation and Conservation (Stage 2)

Description

The Quirks Creek Corridor is to be developed primarily as a Retarding Basin, however there will be opportunities for rehabilitation and revegetation, with scattered tree groupings, outside any flow/retarding areas, with a grassed understorey.

Infrastructure Type	Infrastructure Category
Development Infrastructure	Open Space
\$987,058	

Project Cost

Project Timing 2013 - 2018

Strategic Justification

This project allows for the further enhancement of a Melbourne Water retarding basin.

External Usage Discount

Project Cost to MCA

Apportionment of Costs

\$987,058

0%

Apportioned evenly across Cells 1, 3 and 5 (in accordance with projected dwelling yield). Although the retarding basin is in an encumbered area within Cell 1, the provision of the basin reduces the drainage constraints of Cell 3 and 5. This area is also likely to be used by the residents within Cell 1, 3 and 5 as it is linked via the trail network adjacent to gum scrub creek.

MCA Cells	Cell 1	Cell 2	Cell 3	Cell 4	Cell 5	Cell 6
Cost Apportioned to Cell	50.9%		15.0%		34.1%	
Capital Cost	\$502,183		\$148,210		\$336,664	
Present Value Cost	\$264,544		\$78,075		\$177,350	
Present Value Demand Units	114.7		31.7		65.0	
Levy Amount	\$2,307.11	<u> </u>	\$2,466.57	<u> </u>	\$2,730.24	

List of Works Required

- Seating (4 @ \$2500)	\$10,000
ουατίης (4 e ψ2300)	Ψ10,000
- Directional Signage (4 @ \$2000)	\$8,000
- Rubbish Bins (2 @ \$1000)	\$2,000
- Main Pathway System - concrete, 2.5 m width x 2.5 km length (6250 m2 @ \$75)	\$468,750
- Creek cross over footbridge - allowance	\$30,000
- Asphalt access road, 6 m nom. Width; no kerb and channel, drainage swale along	
one side of the road. (1800 m2 @ \$90)	\$162,000
- Asphalt Car Park, no kerb and channel, drainage swale along one side of the car	
park	\$120,000
- 20 timber bollards per car park for traffic control (20 @ \$750)	\$15,000
Design & Project Management (10% of construction cost)	\$81,575
Contingency (10%)	\$89,733

Costing Justification

Based on Revised Indicative Opinion of Probable Cost, Land Design Partnership, 3 June 2008 (excludes GST and yearly maintenance works). Melbourne Water development works of any earthworks, drainage infrastructure, head wall etc required to establish the retarding basin are also excluded.

Related Projects

DI_OS3a

The Project Cost is expressed in December 2007 dollars.

Version



DI_OS_4a Landscaping & Environmental Works along Gum Scrub Creek Corridor - Princes Highway to Railway Reserve Gum Scrub Creek Corridor - Princes Highway to Railway reservation (500 m x 28 m wide). Description Landscaping & environmental works are adjacent to land that forms part of Melbourne Water Gum Scrub Creek Drainage Scheme. **Development Infrastructure** Open Space Project Cost \$177,870 **Project Timing** 2008 - 2013 Strategic Justification This project allows for the protection and rehabilitation of the flora and fauna habitat along the existing creek/open space network. External Usage Discount 0% Project Cost to MCA \$177,870 Apportionment of Costs Apportioned to Cell 3. The item is likely to be used by residents of Cell 3 only. Cell 3 MCA Cells Cell 4 Cost Apportioned to Cell 100.0% Capital Cost \$177,870 Present Value Cost \$125,391 Present Value Demand Units 31.7 Levy Amount \$3,961.39 List of Works Required \$147,000 Based on \$10.5 per sq m Design & Project Management (10% of construction cost) \$14,700 Contingency (10%) \$16,170 Costing Justification Based on Indicative Opinion of Probable Costs, LandDesign Partnership, 6 March 2007 Related Projects DI_TR9, DI_OS10

The Project Cost is expressed in December 2007 dollars.

Version

58

Ref# SEPTEMBER 2008



DI_OS_4b Landscaping & Environmental Works along Gum Scrub Creek Corridor - Railway reserve to Bypass Gum Scrub Creek Corridor - Railway reservation to Pakenham Bypass (1150 m x 28 m Description wide). Landscaping & environmental works are adjacent to land that forms part of Melbourne Water Gum Scrub Creek Drainage Scheme. **Development Infrastructure** Open Space Project Cost \$409,101 **Project Timing** 2013 - 2018 Strategic Justification This project allows for the protection and rehabilitation of the flora and fauna habitat along the existing creek/open space network. External Usage Discount 0% Project Cost to MCA \$409,101 Apportionment of Costs Apportioned to Cell 5. The item is likely to be used by residents of Cell 5 only. Cell 5 MCA Cells Cell 4 Cost Apportioned to Cell 100.0% Capital Cost \$409,101 Present Value Cost \$215.509 Present Value Demand Units 65.0 Levy Amount \$3,317.68 List of Works Required Based on \$10.5 per sq m \$338,100 Design & Project Management (10% of construction cost) \$33,810 Contingency (10%) \$37,191 Costing Justification Based on Indicative Opinion of Probable Costs, LandDesign Partnership, 6 March 2007 Related Projects DI_TR9, DI_OS12

The Project Cost is expressed in December 2007 dollars.

Version

SEPTEMBER 2008

Ref#



DI_OS_5a Landscaping & Environmental Works along Gum Scrub Creek Corridor - East-West Road to Peck Road Gum Scrub Creek Corridor - northern east-west road to Peck Road (825 m x 28 m wide). Description Landscaping & environmental works are adjacent to land that forms part of Melbourne Water Gum Scrub Creek Drainage Scheme. **Development Infrastructure** Open Space Project Cost \$293,422 **Project Timing** 2013 - 2018 Strategic Justification This project allows for the protection and rehabilitation of the flora and fauna habitat along the existing creek/open space network. External Usage Discount 0% Project Cost to MCA \$293,422 Apportionment of Costs Apportioned to Cell 1. The item is likely to be used by residents of Cell 1 only. Cell 1 MCA Cells Cell 4 Cost Apportioned to Cell 100.0% Capital Cost \$293,422 Present Value Cost \$154.571 Present Value Demand Units 114.7 Levy Amount \$1,348.03 List of Works Required Based on \$10.5 per sq m \$242,498 Design & Project Management (10% of construction cost) \$24,250 Contingency (10%) \$26,675 **Costing Justification** Based on Indicative Opinion of Probable Costs, LandDesign Partnership, 6 March 2007 Related Projects DI_TR10

The Project Cost is expressed in December 2007 dollars.

Version

Ref# SEPTEMBER 2008



DI_OS_5b	Corridor - East-West Road to Peck Road							
Description	Quirks Creek Corridor - north of northern east-west road to Peck Road (375 m x 25m wide).							
	Int	Infrastructure Type			Infrastructure Category			
		pment Infrastru			Open Space	,2 ₀₁ ,		
Project Cost	\$119,109				- - - -			
Project Timing	2013 - 2018							
Strategic Justification	This project allo				ne flora and faur	na habitat		
External Usage Discount	0%							
Project Cost to MCA	\$119,109							
Apportionment of Costs	Apportioned to Co	ell 1. The item is	likely to be used	by residents of (Cell 1 only.			
MCA Cells	Cell 1	Cell 2	Cell 3	Cell 4	Cell 5	Cell 6		
Cost Apportioned to Cell	100.0%							
Capital Cost	\$119,109							
Present Value Cost	\$62,745							
Present Value Demand Units	114.7							
Levy Amount	\$547.21							
List of Works Required	Based on \$10.5 per sq m \$98,438							
	Design & Project Management (10% of construction cost) \$9,844							
	Contingency (109	%)				\$10,828		
Costing Justification	Based on Indica	ative Opinion of	Probable Cost	s, LandDesign	Partnership, 6	March 2007		
Related Projects	DI_TR10							

Version

SEPTEMBER 2008

Ref#



DI_OS_6	Landscaping & Environmental Works along Toomuc Creek - Railway Reserve to Bypass Toomuc Creek Corridor - Railway line to Pakenham Bypass (1350 m x 50 m wide)								
Description									
	In	Infrastructure Type			astructure Cat	egory			
		opment Infrastr			Open Space				
Project Cost	\$902,509	·			<u> </u>				
Project Timing	2008 - 2013								
Strategic Justification	This project all along the exist				e flora and fau	na habitat			
External Usage Discount	0%								
Project Cost to MCA	\$902,509								
Apportionment of Costs	Apportioned to C	Apportioned to Cell 6. The item is likely to be used by residents of Cell 6 only.							
MCA Cells	Cell 1	Cell 2	Cell 3	Cell 4	Cell 5	Cell 6			
Cost Apportioned to Cell						100.0%			
Capital Cost						\$902,509			
Present Value Cost						\$636,233			
Present Value Demand Units						74.9			
Levy Amount						\$8,491.48			
List of Works Required	Based on \$11.0	5 per sq m				\$745,875			
	Design & Project	: Management (1	.0% of construction	on cost)		\$74,588			
	Contingency (10	%)				\$82,046			
Costing Justification	Based on Indic	ative Opinion o	f Probable Cos	ts, LandDesign	Partnership, 6	March 2007			
Related Projects	DI_TR6, DI_TR	7, DI_TR8 & DI	_TR13						

Version

Ref#





DI_OS_7	Landscaping & Environmental Works along Toomuc Creek - Mulcahy Road to Brown Road								
Description	Toomuc Creek Corridor - Mulcahy Road to Brown Road (700 m x 50 m wide)								
	Infrastructure Typ	е	Infi	Infrastructure Category					
	Development Infrastru	ıcture		Open Space					
Project Cost	\$417,828								
Project Timing	2018 - 2023								
Strategic Justification	This project allows for the prote along the existing creek/open s			e flora and faui	na habitat				
External Usage Discount	0%								
Project Cost to MCA	\$417,828								
Apportionment of Costs	Apportioned to Cell 2. The item is likely to be used by residents of Cell 2 only.								
MCA Cells	Cell 1 Cell 2	Cell 3	Cell 4	Cell 5	Cell 6				
Cost Apportioned to Cell	100.0%								
Capital Cost	\$417,828								
Present Value Cost	\$164,476								
Present Value Demand Units	37.3								
Levy Amount	\$4,404.48								
List of Works Required	Based on \$11.05 per sq m \$345,313								
	Design & Project Management (10	% of construction	of construction cost) \$34,531						
	Contingency (10%)				\$37,984				
Costing Justification	Based on Indicative Opinion of	Probable Cost	s, LandDesign	Partnership, 6	March 2007				
Related Projects	DI_TR7, DI_TR5								
,	= - / '- '''								

Version

SEPTEMBER 2008

Ref#



DI_OS_8a

District Parkland - Rehabilitation and Conservation (Stage 1) - north of Princes Highway

Description

The District Park will provide opportunities for passive open space activities and will be developed and managed in two Stages. In Stage 1 the upper area of the ridge and mid slope are to be revegetated. Limited public access is to be provided to the upper slopes. A gravel pedestrian path will define an access way, to manage access through the rehabilitation and revegetation areas. The path will follow the contours to the top of the ridge, culminating in a lookout area with a timber viewing platform.

Infrastructure Type	Infrastructure Category
Development Infrastructure	Open Space
h4 444 405	

Project Cost

\$1,444,135

Project Timing

2008 - 2013

Strategic Justification

This project allows for passive recreation within a protected and rehabilitated flora and fauna habitat.

External Usage Discount

0%

Project Cost to MCA

\$1,444,135

Apportionment of Costs

Apportioned evenly to Cells 1,2,3,5&6 in accordance with the projected dwelling yield of each cell. This item is likely to be used by residents of the entire DCP area. An equivalent item has already been provided in Cell 4.

MCA Cells	Cell 1	Cell 2	Cell 3	Cell 4	Cell 5	Cell 6
Cost Apportioned to Cell	31.2%	13.2%	9.2%		20.9%	25.4%
Capital Cost	\$451,183	\$190,309	\$133,158		\$302,473	\$367,011
Present Value Cost	\$318,066	\$134,161	\$93,871		\$213,232	\$258,728
Present Value Demand Units	114.7	37.3	31.7		65.0	74.9
Levy Amount	\$2,773.89	\$3,592.66	\$2,965.60		\$3,282.62	\$3,453.12

List of Works Required

Broad Scale weed / pest plant removal - general spraying (47000 @ \$1) \$47,000 All plants to be tubestock with mulch bowl, tree guard and weed control mat. Upper slope planting works - (approx 20000 m2) Native shrubs (tubestock) at 4 no. per m2 (80000 @ \$11) \$880,000 Upper slope planting works - (approx 20000 m2) Native trees (tubestock) at 1 no. per 4 m2 (5000 @ \$11) \$55,000 Mid slope planting works - (approx 27000 m2) native trees (tubestock) at 1 no. per 4 m2 (7000 @ \$11) \$77,000 Gravel pathway (1.8 m width x 800 lin m) with drainage swale formed along one side and erosion control matting (1500 m2 @ \$65) \$97,500 Seating (4 @ \$2500) \$10,000 Timber viewing platform \$15,000 Directional signage (4 @ \$2000) \$8,000 Rubbish bins (4 @ \$1000) \$4,000 Design & Project Management (10% of construction cost) \$119,350 \$131,285 Contingency (10%)

Costing Justification

Based on Revised Indicative Opinion of Probable Cost, Land Design Partnership, 3 June 2008 (excludes yearly maintenance works).

Related Projects

DI OS8b, DI OS8c

The Project Cost is expressed in December 2007 dollars.

Version

SEPTEMBER 2008



Ref#

DI_OS_8b

District Parkland - Rehabilitation and Conservation (Stage 2) - north of Princes Highway

Description

The District Park will provide opportunities for passive open space activities and will be developed and managed in two Stages. In Stage 2 the lower slope (below the 60m contour line) is to be revegetated to provide a scattered open tree canopy with a grassed understorey. An asphalt road & carpark is also to be provided.

Infrastructure Type	Infrastructure Category
Development Infrastructure	Open Space
4700 705	

Project Cost

\$790,735

Project Timing

2013 - 2018

Strategic Justification

This project allows for passive recreation within a protected and rehabilitated flora and fauna habitat.

External Usage Discount

0%

Project Cost to MCA

\$790,735

Apportionment of Costs

Apportioned evenly to Cells 1,2,3,5&6 in accordance with the projected dwelling yield of each cell. This item is likely to be used by residents of the entire DCP area. An equivalent item has already been provided in Cell 4.

MCA Cells	Cell 1	Cell 2	Cell 3	Cell 4	Cell 5	Cell 6
Cost Apportioned to Cell	31.2%	13.2%	9.2%		20.9%	25.4%
Capital Cost	\$247,045	\$104,204	\$72,911		\$165,619	\$200,957
Present Value Cost	\$130,140	\$54,893	\$38,408		\$87,246	\$105,862
Present Value Demand Units	114.7	37.3	31.7		65.0	74.9
Levy Amount	\$1.134.97	\$1.469.97	\$1.213.41		\$1.343.12	\$1.412.88

List of Works Required

Weed Control Allowance Broad scale weed / pest plant removal - spraying and vegetation removal (115000 m2 @ \$1) \$115,000 Revegetation works. Tubestock with mulch bowl, tree guard and weed control mat. Lower slope planting works (approx 102,500m2) Native trees at 1 per 8m2 (13000 @ \$11) \$143,000 Hydroseeding to open space areas (assume re-use of existing topsoil) (11000m2 \$11,000 Asphalt access road, 6 metre nom. width; no kerb and channel, drainage swale along one side of the road. (1800m2 @ \$90) \$162,000 Asphalt car park, no kerb and channel, drainage swale along one side of the car \$200,000 park. 30 timber bollards per car park for traffic control (30 @ \$750) \$22,500 Design & Project Management (10% of construction cost) \$65,350 Contingency (10%) \$71,885

Costing Justification

Based on Revised Indicative Opinion of Probable Cost, Land Design Partnership, 3 June 2008 (excludes GST and yearly maintenance works).

Related Projects

DI_OS8a, DI_OS8c

The Project Cost is expressed in December 2007 dollars.

Version



DI_OS_8c District Parkland - Rehabilitation & Conservation (Stage 3) north of Princes Highway The District Park will provide opportunities for passive open space activities. Stage 3 will Description provide embellishment works. **Development Infrastructure** Open Space Project Cost \$1,339,773 **Project Timing** 2018 - 2023 Strategic Justification This project allows for passive recreation within a protected and rehabilitated flora and fauna habitat. External Usage Discount 0% Project Cost to MCA \$1,339,773 Apportionment of Costs Apportioned evenly to Cells 1,2,3,5&6 in accordance with the projected dwelling yield of each cell. This item is likely to be used by residents of the entire DCP area. An equivalent item has already been provided in Cell 4. Cell 1 Cell 2 Cell 3 Cell 5 MCA Cells Cost Apportioned to Cell 31.2% 13.2% 9.2% 20.9% 25.4% Capital Cost \$418,577 \$176,556 \$123,535 \$280,615 \$340,489 **Present Value Cost** \$164.771 \$69.501 \$48.629 \$110.463 \$134.032 Present Value Demand Units 114.7 37.3 31.7 65.0 74.9 \$1,436.99 \$1,861.15 \$1,536.30 \$1,700.53 \$1,788.86 Levy Amount Picnic Area - BBQ's (3 @ \$4000), Shelter - allowance (2 @ \$15,000), Table Settings List of Works Required (6 @ \$6500), Rubbish Bins (4 @ \$1000) \$85,000 Play Area - Play Equipment (\$150000), Seating (4 @ \$2500), Shelter / Shade allowance (2 @ \$15000), Rubblish Bins (4 @ \$1000) \$194,000 Seating (8 @ \$2500), Directional Signage (18 @ \$2000), Drink Fountains (3 @ \$2000), Bike Racks (10 @ \$2500), Toilet (2 @ \$200000) \$487,000 Main Pathway System - Concrete, 2.5m width x 1500 lin m (3750m2 @ \$75) \$281,250 Creek crossover footbridge - allowance (2 @ \$30000) \$60,000 Design & Project Management (10% of construction cost) \$110,725 Contingency (10%) \$121,798 Costing Justification Based on Revised Indicative Opinion of Probable Cost, Land Design Partnership, 3 June 2008 (excludes GST and yearly maintenance works).

Related Projects

DI OS8a, DI OS8b

The Project Cost is expressed in December 2007 dollars.

Version





DI_0S_9

Landscaping & Environmental Works along Gum Scrub and Quirks Creek Corridor - north of Princes Highway

Description

Gum Scrub and Quirks Creek corridor rehabilitation which includes scattered tree groupings, with a grassed understorey, picnic facilities and a pedestrian bridge creek crossing. Landscaping & environmental works are adjacent to land that forms part of Melbourne Water Gum Scrub Creek Drainage Scheme.

Infrastructure Type	Infrastructure Category				
Development Infrastructure	Open Space				
\$2.04¢.022					

Project Cost

\$3,016,833

Project Timing

2013 - 2018

Strategic Justification

This project allows for the protection and rehabilitation of the flora and fauna habitat along the existing creek / open space network

External Usage Discount

0%

Project Cost to MCA

to MCA \$3,016,833

Apportionment of Costs

Apportioned evenly across Cell 1, 3 and 5 (in accordance with projected dwelling yield). Although the area is within Cell 1, this area is likely to be used by the residents within Cell 1, 3 and 5 as it is linked via the trail network adjacent to Gum Scrub Creek.

MCA Cells	Cell 1	Cell 2	Cell 3	Cell 4	Cell 5	Cell 6
Cost Apportioned to Cell	50.9%		15.0%		34.1%	
Capital Cost	\$1,534,868		\$452,988		\$1,028,977	
Present Value Cost	\$808,549		\$238,628		\$542,052	
Present Value Demand Units	114.7		31.7		65.0	
Levy Amount	\$7,051.44		\$7,538.79		\$8,344.69	

List of Works Required

Broad weed / pest plant and grass removal to creek zones (78000m2 @ \$5)	\$390,000
Broad weed / pest plant removal to open space/picnic- general spraying	
(48000m2 @ \$1)	\$48,000
Minor regrading / excavation works to open space zone (48000m2 @ \$5)	\$240,000
Erosion Control to creek bank rehabilitation zones , Assume to 1/3 of area	
(26000m2 @ \$10)	\$260,000
Immediate creek bank zone revegetation Native shrubs / tufts (tubestock) at 4 no.	
per m2 (88000 @ \$6)	\$528,000
Upper Creek bank zone revegetation (1/3 of zone) Native shrubs (tubestock) at 4	
no. per m2 (72000 @ \$6)	\$432,000
Upper Creek bank zone revegetation (1/3 of zone) Native trees (tubestock) at 1	
per 8 m2 with mulch bowl, tree guard and weed control mat (7000 @ \$11)	\$77,000
Hydroseed Grassing to Open Space, Picnic Area, Upper creek bank (assume re-use	
of existing topsoil) (58000m2 @ \$1)	\$58,000
Picnic Areas (2 no.) - BBQ's (4 @ \$4000), Shelter - allowance (\$15,000), Table	
Settings (12 @ \$6500), Rubbish Bins (8 @ \$1000)	\$117,000
Open Space - Seating (8 @ \$2500), Directional signage (4 @ 2000), Rubbish bins	
(4 @ \$1000)	\$32,000
Main Pathway system – concrete, 2.5m width x 1.5 km length (3750m2 @ \$75),	
Creek crossover footbridge - allowance (\$30000)	\$341,250
Design & Project Management (10% of construction cost)	\$249,325
Contingency (10%)	\$274,258

Costing Justification

Based on Indicative Opinion of Probable Costs, LandDesign Partnership, 3 March 2008 (excludes yearly maintenance works).

Related Projects

DI_OS3a, DI_OS3b, DI_OS5, DI_OS8, DI_OS14a, DI_OS14b, DI_TR10, DI_LA14

The Project Cost is expressed in December 2007 dollars.

Version



DI_0S_10 District Sports Reserve - Princes Highway / Gum Scrub Creek Gum Scrub and Hill District Parkland playing fields, clubrooms and carparking (Officer Description Farm Sports Reserve, Princes Highway, Officer). **Development Infrastructure** Open Space Project Cost \$1,760,526 **Project Timing** 2008 - 2013 Strategic Justification This project is required to provide adequate active recreation facilities for the new community. External Usage Discount 0% Project Cost to MCA \$1,760,526 Apportionment of Costs Apportioned evenly across DCP area in accordance with the projected dwelling yield of each cell. The item is likely to be used by residents of the entire DCP area. Cell 3 Cell 5 MCA Cells Cell 2 Cell 4 Cell 6 Cost Apportioned to Cell 23.6% 10.0% 7.0% 24.5% 15.8% 19.2% Capital Cost \$415,347 \$175,194 \$122,582 \$431,094 \$278,449 \$337,861 Present Value Cost \$292.803 \$123.505 \$86,415 \$303.905 \$196.295 \$238.178 Present Value Demand Units 114.7 37.3 31.7 154.3 65.0 74.9 \$2,553.56 \$3,307.30 \$2,730.05 \$1,969.65 \$3,021.89 \$3,178.85 Levy Amount List of Works Required 1 senior oval (175 m x 135 m) \$421,120 1 junior oval (135 m x 115 m) \$263,200 Carparks 100 x \$2969 per space \$296,900 Regional Playground \$210,560 Services \$52,640 Road works and paths \$105,280 \$52,640 Pitches x 2 & practice cricket nets x 2 \$52,640 Design & Project Management (10% of construction cost) \$145,498 \$160,048 Contingency (10%) **Costing Justification** Based on Cardinia Growth Corridor Sport Facility Development Report, 21 March 2006. Updated with figures provided by Council 28/03/07.

Related Projects

CI_OS1, land provided as part of S173 Am C59

The Project Cost is expressed in December 2007 dollars.

Version



DI_0S_11 District Sports Reserve - Henry Road (east) Description District Sports Reserve located on Henry Road extension (east of Cardinia Road) playing fields, clubrooms and carparking (Cardinia Road Sports Reserve, Pakenham) **Development Infrastructure** Open Space Project Cost \$1,505,748 **Project Timing** 2013 - 2018 Strategic Justification This project is required to provide adequate active recreation facilities for the new community. External Usage Discount 0% Project Cost to MCA \$1,505,748 Apportionment of Costs Apportioned evenly across DCP area in accordance with the projected dwelling yield of each cell. The item is likely to be used by residents of the entire DCP area. Cell 3 Cell 5 MCA Cells Cell 1 Cell 2 Cell 4 Cell 6 Cost Apportioned to Cell 23.6% 10.0% 7.0% 24.5% 15.8% 19.2% Capital Cost \$355,239 \$149,840 \$104,842 \$368,708 \$238,152 \$288,967 Present Value Cost \$187.135 \$78.934 \$55,230 \$194.231 \$125.456 \$152.224 Present Value Demand Units 114.7 37.3 31.7 154.3 65.0 74.9 \$1,258.84 \$1,632.03 \$2,113.75 \$1,744.82 \$1,931.34 \$2,031.66 Levy Amount List of Works Required 1 senior oval (175 m x 135 m) \$421,120 1 junior oval (135 m x 115 m) \$263,200 Carparks 100 x \$2969 per space \$296,900 Services \$52,640 Road works and paths \$105,280 \$52,640 Landscaping Pitches x 2 & practice cricket nets x 2 \$52,640 Design & Project Management (10% of construction cost) \$124,442 Contingency (10%) \$136,886 **Costing Justification** Based on Cardinia Growth Corridor Sport Facility Development Report, 21 March 2006. Updated with figures provided by Council 28/03/07.

Related Projects

CI_OS2, DI_LA12

The Project Cost is expressed in December 2007 dollars.

Version



DI_0S_12 District Sports Reserve - Henry Road (west) / Gum Scrub Creek Description District Sports Reserve located on Henry Road extension (west of Cardinia Road, abutting Gum Scrub Creek) sport and recreation facilities including lawn bowls (Gum Scrub Creek Sports Reserve, Rix Road, Officer). **Development Infrastructure** Open Space \$1,098,104 Project Cost **Project Timing** 2013 - 2018 Strategic Justification This project is required to provide adequate active recreation facilities for the new community. External Usage Discount 0% Project Cost to MCA \$1,098,104 Apportionment of Costs Apportioned evenly across DCP area in accordance with the projected dwelling yield of each cell. The item is likely to be used by residents of the entire DCP area. Cell 3 Cell 5 MCA Cells Cell 2 Cell 4 Cell 6 Cost Apportioned to Cell 23.6% 10.0% 7.0% 24.5% 15.8% 19.2% Capital Cost \$259,067 \$109,275 \$76,459 \$268,889 \$173,679 \$210,736 Present Value Cost \$136.473 \$57.565 \$40.278 \$141.648 \$91.492 \$111.013 Present Value Demand Units 114.7 37.3 31.7 154.3 65.0 74.9 \$1,190.20 \$1,541.51 \$1,272.46 \$918.04 \$1,408.48 \$1,481.64 Levy Amount List of Works Required Full construction of playing field (rugby & other sports) \$315,840 Carparks 100 x \$2969 per space \$296,900 \$52,640 Services \$105,280 Road works and paths Landscaping \$52,640 Ancillary facilities \$84,224 Design & Project Management (10% of construction cost) \$90,752 Contingency (10%) \$99,828

Costing Justification

Based on Cardinia Growth Corridor Sport Facility Development Report, 21 March 2006. Updated with figures provided by Council 28/03/07.

Related Projects

CI_OS3, DI_LA13

The Project Cost is expressed in December 2007 dollars.

Version



DI_0S_13	Neighbour Drive	rhood Spor	ts Reserve	- Cardinia F	Road / Shea	arwater	
Description	Neighbourhood Sports Reserve located on Cardinia Road and Shearwater Drive carpark.						
	lt	nfrastructure Ty	pe	Infra	astructure Cate	egory	
	Devel	opment Infrast	ructure		Open Space		
Project Cost	\$179,625			•			
Project Timing	2013 - 2018						
Strategic Justification	This project is community.	This project is required to provide adequate active recreation facilities for the new community.					
External Usage Discount	0%						
Project Cost to MCA	\$179,625						
Apportionment of Costs	1	•	in accordance wit	th the projected d th cells.	welling yield of e	ach cell. The	
MCA Cells	Cell 1	Cell 2	Cell 3	Cell 4	Cell 5	Cell 6	
Cost Apportioned to Cell			22.1%	77.9%			
Capital Cost			\$39,768	\$139,856			
Present Value Cost			\$20,949	\$73,675			
Present Value Demand Units			31.7	154.3			
Levy Amount			\$661.84	\$477.50			
List of Works Required	Carparks 50 x \$2969 per space \$148,450						
	Design & Projec	t Management (1	LO% of construction	on cost)	\$14,845		
	Contingency (10	0%)				\$16,330	
			=			- /	
Costing Justification	Construction of	of ovals provide	d by Delfin. Fig	ures provided b	y Council 28/0	3/07.	
Related Projects	CI_OS4						
		t is expressed in	December 2007	dollars.			

Version

SEPTEMBER 2008

Ver

Ref#



Bus Stop Facilities - Princes Highway PPTN (north of Princes DI_PT_1a Highway) Bus bay, shelter, access paths & lighting (4 in total) Description **Development Infrastructure Public Transport** Project Cost \$133,990 **Project Timing** 2013 - 2018 Strategic Justification This project provides public transport facilities at an early stage in the development of the Cardinia Road precinct to provide greater opportunity for the use of public transport as an alternative to car use. External Usage Discount 0% Project Cost to MCA \$133,990 Apportionment of Costs Apportioned in accordance with the overall number of items to be located in each cell Cell 1 Cell 2 MCA Cells Cell 4 Cost Apportioned to Cell 50.0% 50.0% Capital Cost \$66,995 \$66,995 Present Value Cost \$35,292 \$35,292 Present Value Demand Units 114.7 37.3 \$307.79 \$945.08 Levy Amount List of Works Required Construction (excavation/road pavement, kerbing, hard stand of 2.5 m wide x 10 m long, path extension to stop, supply & install shelter, street light & DDA tactile \$25,767 Design & Project Management (10% of construction cost) \$2,577 Contingency (20%) \$5,153 Total Cost per Bus Stop (PPTN) \$33,497 \$133,990 Quantity 4 **Costing Justification** Based on CRPDCP Future Traffic Estimates & Road Infrastructure Requirements (Rev 7) report, John Piper Traffic Pty Ltd / Ashton Traffic Pty Ltd, August 2007. Item PT01 Appendix 5 xxxiv. **Related Projects**

The Project Cost is expressed in December 2007 dollars.

Version



Bus Stop Facilities - Princes Highway PPTN (south of Princes DI_PT_1b Highway) Bus bay, shelter, access paths & lighting (4 in total) Description **Development Infrastructure Public Transport** Project Cost \$133,990 **Project Timing** 2013 - 2018 Strategic Justification This project provides public transport facilities at an early stage in the development of the Cardinia Road precinct to provide greater opportunity for the use of public transport as an alternative to car use. External Usage Discount 0% Project Cost to MCA \$133,990 Apportionment of Costs Apportioned in accordance with the overall number of items to be located in each cell Cell 3 Cell 4 MCA Cells Cost Apportioned to Cell 50.0% 50.0% Capital Cost \$66,995 \$66,995 Present Value Cost \$35,292 \$35.292 Present Value Demand Units 31.7 154.3 \$228.73 Levy Amount \$1,114.95 List of Works Required Construction (excavation/road pavement, kerbing, hard stand of 2.5 m wide x 10 m long, path extension to stop, supply & install shelter, street light & DDA tactile \$25,767 Design & Project Management (10% of construction cost) \$2,577 Contingency (20%) \$5,153 Total Cost per Bus Stop (PPTN) \$33,497 \$133,990 Quantity 4 **Costing Justification** Based on CRPDCP Future Traffic Estimates & Road Infrastructure Requirements (Rev 7) report, John Piper Traffic Pty Ltd / Ashton Traffic Pty Ltd, August 2007. Item PT01 Appendix 5 xxxiv. **Related Projects**

The Project Cost is expressed in December 2007 dollars.

Version



DI_PT_2a Bus Stop Facilities - Local Network (north of Princes Highway) (Stage 1) Bus shelter & access paths (3 in total) Description **Development Infrastructure Public Transport** Project Cost \$31,205 **Project Timing** 2008 - 2013 Strategic Justification This project provides public transport facilities at an early stage in the development of the Cardinia Road precinct to provide greater opportunity for the use of public transport as an alternative to car use. External Usage Discount 0% Project Cost to MCA \$31,205 Apportionment of Costs Apportioned to Cell 1. The item is likely to be used by residents of Cell 1 only. Cell 1 MCA Cells Cell 4 Cost Apportioned to Cell 100.0% Capital Cost \$31,205 Present Value Cost \$21.998 Present Value Demand Units 114.7 Levy Amount \$191.85 List of Works Required Construction (hard stand of 2.5 m wide x 10 m long, path extension to stop, supply & install shelter& DDA tactile paves) \$8,001 Design & Project Management (10% of construction cost) \$800 Contingency (20%) \$1,600 \$10,402 Total Cost per Bus Stop \$31,205 Quantity 3 **Costing Justification** Based on CRPDCP Future Traffic Estimates & Road Infrastructure Requirements (Rev 7) report, John Piper Traffic Pty Ltd / Ashton Traffic Pty Ltd, August 2007. Item PT02 Appendix 5 xxxiv. Related Projects

The Project Cost is expressed in December 2007 dollars.

Version

SEPTEMBER 2008

Ref#



DI_PI_2b	(Stage 3)							
Description	Bus shelter & a	access paths (1	L in total)					
	In	frastructure Typ	ре	Inf	rastructure Cate	egory		
		opment Infrastr			Public Transpor			
Project Cost	\$10,402							
Project Timing	2018 - 2023							
Strategic Justification	Cardinia Road	This project provides public transport facilities at an early stage in the development of the Cardinia Road precinct to provide greater opportunity for the use of public transport as an alternative to car use.						
External Usage Discount	0%							
Project Cost to MCA	\$10,402							
Apportionment of Costs	Apportioned to C	Cell 1. The item is	likely to be used	l by residents of	Cell 1 only.			
MCA Cells	Cell 1	Cell 2	Cell 3	Cell 4	Cell 5	Cell 6		
Cost Apportioned to Cell	100.0%							
Capital Cost	\$10,402							
Present Value Cost	\$4,095							
Present Value Demand Units	114.7							
Levy Amount	\$35.71							
List of Works Required	Construction (hard stand of 2.5 m wide x 10 m long, path extension to stop, supply & install shelter DDA tactile paves) \$8,001							
	Design & Project Management (10% of construction cost) \$800							
	Contingency (20%) \$1,6							
	Total Cost per Bus Stop \$					\$10,402		
	Quantity 1					\$10,402		
Coating Luctification	Boood ODD	DOD Future To 1	fio Fotirests 0	Dood Information	unatura Describer	aento (D-:: 7)		
Costing Justification	_	per Traffic Pty L			ucture Requiren Igust 2007. Item			
Related Projects	N/A							

Version

SEPTEMBER 2008

Ref#



DI_PT_3	Bus Stop Facilities - Local Network (north of Princes Highway) (Stage 3)								
Description	Bus shelter &	Bus shelter & access paths (1 in total)							
		nfrastructure Type	e	Inf	rastructure Cate	egory			
		lopment Infrastru			Public Transpo				
Project Cost	\$10,402			•					
Project Timing	2018 - 2023								
Strategic Justification	Cardinia Road	This project provides public transport facilities at an early stage in the development of the Cardinia Road precinct to provide greater opportunity for the use of public transport as an alternative to car use.							
External Usage Discount	0%								
Project Cost to MCA	\$10,402								
Apportionment of Costs	Apportioned to	Cell 2. The item is I	ikely to be used	by residents of	Cell 2 only.				
MCA Cells	Cell 1	Cell 2	Cell 3	Cell 4	Cell 5	Cell 6			
Cost Apportioned to Cell		100.0%							
Capital Cost		\$10,402							
Present Value Cost		\$4,095							
Present Value Demand Units		37.3							
Levy Amount		\$109.65							
List of Works Required	Construction (hard stand of 2.5 m wide x 10 m long, path extension to stop, supply & install shelter& DDA tactile paves) \$8,001								
	Design & Project Management (10% of construction cost) \$800								
	Contingency (20%) \$1,60								
	Total Cost per Bus Stop \$1								
	Quantity 1								
Costing Justification	Based on CRF	PDCP Future Traff	ic Estimates &	Road Infrastr	ucture Requiren	nents (Rev 7)			
	_	Piper Traffic Pty Ltd							
Related Projects	N/A								

Version

Ref#





DI_PT_4 Bus Stop Facilities - Local Network (south of Princes Highway) (Stage 1) Bus shelter & access paths (2 in total) Description **Development Infrastructure Public Transport** Project Cost \$20,803 **Project Timing** 2008 - 2013 Strategic Justification This project provides public transport facilities at an early stage in the development of the Cardinia Road precinct to provide greater opportunity for the use of public transport as an alternative to car use. External Usage Discount 0% Project Cost to MCA \$20,803 Apportionment of Costs Apportioned to Cell 3. The item is likely to be used by residents of Cell 3 only. Cell 3 MCA Cells Cell 4 Cost Apportioned to Cell 100.0% Capital Cost \$20,803 Present Value Cost \$14.666 Present Value Demand Units 31.7 Levy Amount \$463.32 List of Works Required Construction (hard stand of 2.5 m wide x 10 m long, path extension to stop, supply & install shelter& DDA tactile paves) \$8,001 Design & Project Management (10% of construction cost) \$800 Contingency (20%) \$1,600 \$10,402 Total Cost per Bus Stop \$20,803 Quantity 2 **Costing Justification** Based on CRPDCP Future Traffic Estimates & Road Infrastructure Requirements (Rev 7) report, John Piper Traffic Pty Ltd / Ashton Traffic Pty Ltd, August 2007. Item PT02, Appendix 5 xxxiv. Related Projects

The Project Cost is expressed in December 2007 dollars.

Version



DI_PT_5 Bus Stop Facilities - Local Network (south of Princes Highway) (Stage 2) Bus shelter & access paths (2 in total) Description **Development Infrastructure Public Transport** Project Cost \$20,803 **Project Timing** 2013 - 2018 Strategic Justification This project provides public transport facilities at an early stage in the development of the Cardinia Road precinct to provide greater opportunity for the use of public transport as an alternative to car use. External Usage Discount 0% Project Cost to MCA \$20,803 Apportionment of Costs Apportioned to Cell 4. The item is likely to be used by residents of Cell 4 only. Cell 4 MCA Cells Cost Apportioned to Cell 100.0% Capital Cost \$20,803 Present Value Cost \$10,959 Present Value Demand Units 154.3 \$71.03 Levy Amount List of Works Required Construction (hard stand of 2.5 m wide x 10 m long, path extension to stop, supply & install shelter& DDA tactile paves) \$8,001 Design & Project Management (10% of construction cost) \$800 Contingency (20%) \$1,600 \$10,402 Total Cost per Bus Stop \$20,803 Quantity 2 Costing Justification Based on CRPDCP Future Traffic Estimates & Road Infrastructure Requirements (Rev 7) report, John Piper Traffic Pty Ltd / Ashton Traffic Pty Ltd, August 2007. Item PT02 Appendix 5xxxiv. Related Projects

The Project Cost is expressed in December 2007 dollars.

Version

SEPTEMBER 2008

Ref#



DI_PI_6	Bus Stop Facilities - Local Network (south of railway line) (Stage 2)							
Description	Bus shelter & a	access paths (3	in total)					
	In	frastructure Ty	pe	Inf	rastructure Cate;	gorv		
		pment Infrastr			Public Transport			
Project Cost	\$31,205							
Project Timing	2013 - 2018							
Strategic Justification	Cardinia Road	This project provides public transport facilities at an early stage in the development of the Cardinia Road precinct to provide greater opportunity for the use of public transport as an alternative to car use.						
External Usage Discount	0%							
Project Cost to MCA	\$31,205							
Apportionment of Costs	Apportioned to C	ell 5. The item is	likely to be used	d by residents of	Cell 5 only.			
MCA Cells	Cell 1	Cell 2	Cell 3	Cell 4	Cell 5	Cell 6		
Cost Apportioned to Cell					100.0%			
Capital Cost					\$31,205			
Present Value Cost					\$16,438			
Present Value Demand Units					65.0			
Levy Amount					\$253.06			
List of Works Required	Construction (hard stand of 2.5 m wide x 10 m long, path extension to stop, supply & install shelter& DDA tactile paves) \$8,001							
	Design & Project Management (10% of construction cost) \$800							
	Contingency (20	Contingency (20%)						
	Total Cost per Bus Stop					\$10,402		
	Quantity 3					\$31,205		
Costing Justification	Rased on CPDI	CP Future Tret	ffic Estimates A	Road Infractr	ucture Requirem	ents (Rev 7)		
oosang susancation		oer Traffic Pty L			gust 2007. Item			
Related Projects	N/A					<u> </u>		

Version



DI_PT_7	Bus Stop Facilities - Local Network (south of railway line) (Stage 1)						
Description	Bus shelter & access paths (4 in total)						
	In	frastructure Typ	oe	Infi	rastructure Cate	egory	
		pment Infrastru			Public Transpo		
Project Cost	\$41,607			<u> </u>	<u> </u>		
Project Timing	2008 - 2013						
Strategic Justification		precinct to prov	-	=	_	elopment of the transport as an	
External Usage Discount	0%						
Project Cost to MCA	\$41,607						
Apportionment of Costs	Apportioned to C landscaped bould	ell 6. The item is evard that will en	•	•	Cell 6 only and pr	rovides a	
MCA Cells	Cell 1	Cell 2	Cell 3	Cell 4	Cell 5	Cell 6	
Cost Apportioned to Cell						100.0%	
Capital Cost						\$41,607	
Present Value Cost						\$29,331	
Present Value Demand Units						74.9	
Levy Amount						\$391.47	
List of Works Required	Construction (hard stand of 2.5 m wide x 10 m long, path extension to stop, supply & install shelter& DDA tactile paves) \$8,001						
	Design & Project Management (10% of construction cost) \$800						
	Contingency (20%) \$1,6						
	Total Cost per Bus Stop						
	Quantity 4					\$41,607	
Costing Justification	Based on CRPI report, John Pip Appendix 5xxxiv	oer Traffic Pty Lt		& Road Infrastru affic Pty Ltd, Au			
Related Projects	N/A						

Version

Ref# 80 SEPTEMBER 2008



DI_RO_1 Road Construction - Cardinia Road Duplication (from Princes **Highway to Shearwater Drive)** Description Primary Arterial Road with no direct property access. From Shearwater Drive to Henry Road extension.

Infrastructure Type	Infrastructure Category					
Development Infrastructure	Roads					
h4 050 040						

Project Cost

\$1,956,813 **Project Timing** 2008 - 2013

Strategic Justification

This project is required to provide for the orderly and proper development of the area and ensures traffic growth is directed to the arterial road network.

External Usage Discount

39% Project Cost to MCA \$1,203,440

Apportionment of Costs

Cost apportionment based upon CRPDCP Future Traffic Estimates & Road Infrastructure Requirements (Rev 7) report, John Piper Traffic Pty Ltd / Ashton Traffic Pty Ltd, April 2008 (point 'N')

MCA Cells	Cell 1	Cell 2	Cell 3	Cell 4	Cell 5	Cell 6
Cost Apportioned to Cell	33.6%	10.6%	3.1%		2.1%	12.1%
Capital Cost	\$657,489	\$207,422	\$60,661		\$41,093	\$236,774
Present Value Cost	\$463,504	\$146,224	\$42,764		\$28,969	\$166,917
Present Value Demand Units	115.5	69.4	41.2		65.9	93.2
Levy Amount	\$4,013.34	\$2,105.78	\$1,036.87		\$439.72	\$1,791.17

List of Works Required

Design & Project Management (10% of construction cost)	\$150,524
Demolition & Earthworks	\$178,976
Drainage	\$144,234
Kerb & channel	\$105,280
Asphalt Road Pavement	\$649,051
Footpath construction	\$131,600
Landscaping	\$169,764
Linemarking & signage	\$10,528
Service alterations	\$52,640
Street lighting	\$63,168
Contingency (20%)	\$301,048

Costing Justification

Based on CRPDCP Future Traffic Estimates & Road Infrastructure Requirements (Rev 7) report, John Piper Traffic Pty Ltd / Ashton Traffic Pty Ltd, August 2007. Item PAR01, Appendix 5i.

Related Projects

Ref#

DI_LA1, DI_RO16, DI_RO18

The Project Cost is expressed in December 2007 dollars.

Version



DI_RO_2a

Road Construction - Cardinia Road Duplication (from Shearwater Drive to Henry Road extension)

Description

Primary Arterial Road (Divided) 33 m reservation, 7.5 m road pavement, 6.0 m centre median and 2.5 m shared path on both sides of the road with no direct property access. From Shearwater Drive to Henry Road extension.

Infrastructure Type	Infrastructure Category		
Development Infrastructure	Roads		
T			

Project Cost

\$2,596,242

Project Timing

2008 - 2013

Strategic Justification

This project is required to provide for the orderly and proper development of the area and ensures traffic growth is directed to the arterial road network.

External Usage Discount

51%

Project Cost to MCA

\$1,282,543

Apportionment of Costs

Cost apportionment based on CRPDCP Future Traffic Estimates & Road Infrastructure Requirements (Rev 7) report, John Piper Traffic Pty Ltd / Ashton Traffic Pty Ltd, April 2008. (point 'O')

MCA Cells	Cell 1	Cell 2	Cell 3	Cell 4	Cell 5	Cell 6
Cost Apportioned to Cell	19.7%	7.1%	10.2%		1.6%	10.8%
Capital Cost	\$511,460	\$184,333	\$264,817		\$41,540	\$280,394
Present Value Cost	\$360,559	\$129,948	\$186,685		\$29,284	\$197,667
Present Value Demand Units	115.5	69.4	41.2		65.9	93.2
Levy Amount	\$3.121.97	\$1.871.38	\$4.526.46		\$444.50	\$2.121.15

List of Works Required

Design & Project Management (10% of construction cost)	\$199,711
Demolition & Earthworks	\$58,957
Drainage	\$199,611
Kerb & channel	\$147,392
Asphalt Road Pavement	\$971,313
Footpath construction	\$184,240
Landscaping	\$241,881
Linemarking & signage	\$14,739
Service alterations	\$105,280
Street lighting	\$73,696
Contingency (20%)	\$399,422

Costing Justification

Based on CRPDCP Future Traffic Estimates & Road Infrastructure Requirements (Rev 7) report, John Piper Traffic Pty Ltd / Ashton Traffic Pty Ltd, August 2007. Item PARO2, Appendix 5ii.

Related Projects

DI_LA2, DI_RO18, DI_RO19, DI_RO2a

The Project Cost is expressed in December 2007 dollars.

Version

SEPTEMBER 2008





Ref#

DI_RO_2b Grade Separated Crossing (railway line) Description A bridge for 3 railway tracks and includes the total excavation to allow the road to be constructed under the rail bridge and the adjacent pedestrian bridge (DI_RO2c) and road bridge (DI_RO2d). **Development Infrastructure** Roads Project Cost \$7,306,221 **Project Timing** 2013 - 2018 Strategic Justification This project is required to provide for the orderly and proper development of the area and ensures traffic growth is directed to the arterial road network. External Usage Discount 51% Project Cost to MCA \$3,609,273 Apportionment of Costs Cost apportionment based on CRPDCP Future Traffic Estimates & Road Infrastructure Requirements (Rev 7) report, John Piper Traffic Pty Ltd / Ashton Traffic Pty Ltd, April 2008. (point '0') Cell 2 Cell 3 Cell 6 MCA Cells Cost Apportioned to Cell 19.7% 7.1% 10.2% 1.6% 10.8% Capital Cost \$1,439,326 \$518,742 \$745,235 \$116,900 \$789,072 Present Value Cost \$758.219 \$273,267 \$392,580 \$61.581 \$415.673 Present Value Demand Units 115.5 69.4 41.2 65.9 93.2 \$9,518.68 Levy Amount \$6,565.18 \$3,935.32 \$934.75 \$4,460.57 List of Works Required Design & Project Management (15% of construction cost) \$782,809 Rail bridge for the 3 tracks \$4,211,200 Excavation based on 3:1 batters \$744,330 Drainage (allowance for pump system) \$263,200 \$1,304,682 Contingency (25%) Costing Justification Based on CRPDCP Future Traffic Estimates & Road Infrastructure Requirements (Rev 7) report, John Piper Traffic Pty Ltd / Ashton Traffic Pty Ltd, August 2007. Item PARO2, Appendix 5iii. DI_LA2, DI_R018, DI_R019 Related Projects

The Project Cost is expressed in December 2007 dollars.

Version

83

Ref# SEPTEMBER 2008



DI_RO_2c	Pedestrian Bridge adjacent to rail bridge.						
Description	A pedestrian bridges that is adjacent to the bridge for the 3 railway tracks.						
	Ir	nfrastructure Ty	vne	Infrastructure Category			
		opment Infrast			Roads	- So. J	
Project Cost	\$235,827	ороне пао.		<u>I</u>	110000		
Project Timing	2013 - 2018						
Strategic Justification	The project provides the new community with a safe and efficient pedestrian network to and from the Neighbourhood Activity Centre and Train Station.						
External Usage Discount	0%						
Project Cost to MCA	\$235,827						
Apportionment of Costs	The requiremen	t for this item is	shared equally by	the residents of (Cells 3, 4 & 6.		
MCA Cells	Cell 1	Cell 2	Cell 3	Cell 4	Cell 5	Cell 6	
Cost Apportioned to Cell			33.3%	33.3%		33.3%	
Capital Cost			\$78,601	\$78,625		\$78,601	
Present Value Cost			\$41,406	\$41,419		\$41,406	
Present Value Demand Units			41.2	180.4		93.2	
Levy Amount			\$1,003.95	\$229.53		\$444.33	
List of Works Required	Design & Project Management (15% of construction cost) \$25,267						
	Pedestrian bridge \$168,448						
	Contingency (25	5%)				\$42,112	
Costing Justification	Based on CRPDCP Future Traffic Estimates & Road Infrastructure Requirements (Rev 7)						
oosting sustineation	- 1		Ltd / Ashton Tra				
Related Projects	DI_LA2, DI_RC)18, DI_R019					

Version

Ref# 84 SEPTEMBER 2008



DI_RO_2d	Road Bridge adjacent to rail bridge.						
Description	A road bridge runs parallel to the railway bridge (Harold Street).						
		nfrastructure Ty	ne	Int	frastructure Cate	of Orv	
		lopment Infrastr		Infrastructure Category Roads			
Project Cost	\$3,684,800						
Project Timing	2013 - 2018						
Strategic Justification		This project is required to provide for the orderly and proper development of the area and ensures traffic growth is directed to the arterial road network.					
External Usage Discount	0%						
Project Cost to MCA	\$3,684,800						
Apportionment of Costs	The requiremen	nt for this item is s	hared equally by	the residents of	f Cells 5 & 6.		
MCA Cells	Cell 1	Cell 2	Cell 3	Cell 4	Cell 5	Cell 6	
Cost Apportioned to Cell					50.0%	50.0%	
Capital Cost					\$1,842,400	\$1,842,400	
Present Value Cost					\$970,553	\$970,553	
Present Value Demand Units					65.9	93.2	
Levy Amount					\$14,732.14	\$10,414.96	
List of Works Required	Design & Project Management (15% of construction cost) \$394,800						
	Bridge for road connection \$2,632,000						
	Contingency (25%)					\$658,000	
Costing Justification	Based on CRF	DCP Future Tra	ffic Estimates &	Road Infrastr	ructure Requirem	nents (Rev 7)	
	report, John Piper Traffic Pty Ltd / Ashton Traffic Pty Ltd, August 2007. Item PAR02						
Polotod Projects	Appendix 5iv. DI_LA2, DI_R018, DI_R019						
Related Projects	DI_LAZ, DI_R	7TO, DI_KOTA					

Version

Ref# 85 SEPTEMBER 2008



Road Construction - Cardinia Road Duplication (6 lane divided DI_RO_3 carriageway) (from Henry Road extension to Pakenham Bypass) Description Primary Arterial Road with no direct property access. From Henry Road extension to Pakenham Bypass. **Development Infrastructure** Roads Project Cost \$736,363 **Project Timing** 2013 - 2018 Strategic Justification This project is required to provide for the orderly and proper development of the area and ensures traffic growth is directed to the arterial road network. External Usage Discount 41% Project Cost to MCA \$433,718 Apportionment of Costs Cost apportionment based on CRPDCP Future Traffic Estimates & Road Infrastructure Requirements (Rev 7) report, John Piper Traffic Pty Ltd / Ashton Traffic Pty Ltd, August 2007 (point 'P') Cell 3 MCA Cells Cell 2 Cell 5 Cell 6 Cost Apportioned to Cell 11.4% 3.7% 5.0% 14.4% 24.4% Capital Cost \$83,945 \$27,245 \$36,818 \$106,036 \$179,672 Present Value Cost \$44.221 \$14.353 \$19.395 \$55.859 \$94.649 Present Value Demand Units 115.5 69.4 41.2 65.9 93.2 \$470.27 Levy Amount \$382.90 \$206.69 \$847.88 \$1,015.68 List of Works Required Design & Project Management (10% of construction cost) \$56,643 Demolition & Earthworks \$75,907 \$49,692 Drainage \$31,584 Kerb & channel Asphalt Road Pavement \$308,576 \$39,480 Footpath construction Landscaping \$43,033 Linemarking & signage \$2,369

Costing Justification

Based on CRPDCP Future Traffic Estimates & Road Infrastructure Requirements (Rev 7) report, John Piper Traffic Pty Ltd / Ashton Traffic Pty Ltd, August 2007. Item PARO3, Appendix 5v.

Related Projects

DI_LA3, DI_RO17, DI_RO19a

The Project Cost is expressed in December 2007 dollars.

Version

SEPTEMBER 2008

Street lighting

Contingency (20%)



\$15,792

\$113,287

DI_RO_4 Street Lighting - south side Princes Highway from Lakeside **Blvd to Gum Scrub Creek** Street Lighting along Princes Highway as per Vic Roads Standards. Description **Development Infrastructure** Roads \$574,860 Project Cost **Project Timing** 2008 - 2013 Strategic Justification The project provides for a safe environment for the new community. External Usage Discount 0% Project Cost to MCA \$574,860 Apportionment of Costs Apportioned to the area between Lakeside Blvd to Gum Scrub Creek in accordance with the length of the street lighting in each cell. The item is likely to be used by the residents within Cells 3 and 4. Cell 3 Cell 4 MCA Cells Cost Apportioned to Cell 50.0% 50.0% Capital Cost \$287,430 \$287,430 Present Value Cost \$202,627 \$202,627 Present Value Demand Units 41.2 180.4 \$4,912.98 Levy Amount \$1,122.91 List of Works Required Supply & install street lights (poles, brackets, conduits & wiring) \$7370 per unit @ 70m intervals + additional poles (6 in total) at each intersection \$442,200 Design & Project Management (10% of construction cost) \$44,220 Contingency (20%) \$88,440 Costing Justification Based on CRPDCP Future Traffic Estimates & Road Infrastructure Requirements (Rev 7) report, John Piper Traffic Pty Ltd / Ashton Traffic Pty Ltd, August 2007. PARO4, Appendix **Related Projects** DI_TR1, DI_TR2

The Project Cost is expressed in December 2007 dollars.

Version

SEPTEMBER 2008

Ref#



DI_R0_5	Street Lighting - north side Princes Highway from Lakeside Blvd extension to Gum Scrub Creek						
Description	Street Lighting along Princes Highway as per Vic Roads Standards.						
	In	frastructure Type	9	Int	frastructure Cat	egory	
		opment Infrastru			Roads		
Project Cost	\$574,829			•			
Project Timing	2008 - 2013						
Strategic Justification	The project pro	The project provides for a safe environment for the new community.					
External Usage Discount	0%						
Project Cost to MCA	\$574,829						
Apportionment of Costs		Apportioned to the area between Lakeside Blvd extension to Gum Scrub Creek in accordance with the length of the street lighting in each cell. The item is likely to be used by the residents within Cells					
MCA Cells	Cell 1	Cell 2	Cell 3	Cell 4	Cell 5	Cell 6	
Cost Apportioned to Cell	80.0%	20.0%					
Capital Cost	\$459,863	\$114,966					
Present Value Cost	\$324,185	\$81,046					
Present Value Demand Units	115.5	69.4					
Levy Amount	\$2,807.02	\$1,167.15					
List of Works Required	Supply & install street lights (poles, brackets, conduits & wiring) \$7000 per unit @ 70m intervals + additional poles (6 in total) at each intersection \$442,176						
	Design & Project Management (10% of construction cost) \$44,218						
	Contingency (20	Contingency (20%) \$88,4					
Costing Justification		DCP Future Traffi per Traffic Pty Ltd			-		
Related Projects	DI_TR3, DI_TR	4					

Version

Ref# 88 SEPTEMBER 2008



DI_RO_6a Road Construction - Henry Road extension (east of Cardinia Road) (Stage 1) Henry Road constructed as a Local Arterial Road (Divided) 33 m reservation, 7.5 m road pavement, Description 6.0 m centre median and 2.5 m shared path on both sides of the road. From Cardinia Road to the roundabout between the State Primary and Post Primary School the length is 870 m. The DCP is to only fund the difference of the cost of construction between a Local Arterial Road (Undivided) standard to a Local Arterial Road (Divided) standard. **Development Infrastructure** Roads Project Cost \$1,088,370 **Project Timing** 2008 - 2013 Strategic Justification This project is required to provide for the orderly and proper development of the area and ensures traffic growth is directed to the arterial road network. External Usage Discount 0% Project Cost to MCA \$1,088,370 Apportionment of Costs Apportioned to Cell 6. The item is likely to be used by residents of Cell 6 only and provides a landscaped boulevard that will enhance the amenity of Cell 6. MCA Cells Cell 6 Cell 4 Cost Apportioned to Cell 100.0% Capital Cost \$1,088,370 **Present Value Cost** \$767.258 Present Value Demand Units 93.2 Levy Amount \$8,233.41 List of Works Required Cost of Henry Road from Cardinia Road to Toomuc Creek as a Divided Local Arterial Road @ \$3480 per m \$3,027,600 Cost of Henry Road from Cardinia Road to Toomuc Creek as an Undivided Local Arterial Road @ \$2229 per m \$1,939,230 Costs Include (10% of Construction Cost for Design & Project Management & 20% contingency) Total Cost to be funded by DCP (difference between a Divided and Undivided LAR) \$1,088,370 Costing Justification Based on CRPDCP Future Traffic Estimates & Road Infrastructure Requirements (Rev 7) report, John Piper Traffic Pty Ltd / Ashton Traffic Pty Ltd, August 2007. Item LAR01, Appendix 5vii & 5viii. DI_LA4a, DI_RO20, DI_RO19a, DI_RO19b Related Projects

The Project Cost is expressed in December 2007 dollars.

Version

Ref# SEPTEMBER 2008



DI_RO_6b Road Construction - Henry Road extension (east of Cardinia Road) (Stage 2) Henry Road constructed as a Local Arterial Road (Divided) 33 m reservation, 7.5 m road pavement, 6.0 m centre Description median and 2.5 m shared path on both sides of the road. From the roundabout between the State Primary and Post Primary School to the roundabout where the road changes to a LAR Undivided the length is $1105\ \mathrm{m}$ in length. The DCP is to only fund the difference of the cost of construction between a Local Arterial Road (Undivided) standard to a Local Arterial Road (Divided) standard. **Development Infrastructure** Roads Project Cost \$1,382,355 **Project Timing** 2008 - 2013 Strategic Justification This project is required to provide for the orderly and proper development of the area and ensures traffic growth is directed to the arterial road network. External Usage Discount 0% Project Cost to MCA \$1,382,355 Apportionment of Costs Apportioned to Cell 6. The item is likely to be used by residents of Cell 6 only. MCA Cells Cell 4 Cost Apportioned to Cell 100.0% Capital Cost \$1,382,355 **Present Value Cost** \$974.506 Present Value Demand Units 93.2 Levy Amount \$10,457.38 List of Works Required Cost of Henry Road from Cardinia Road to Toomuc Creek as a Divided Local Arterial Road @ \$3480 per m \$3,845,400 Cost of Henry Road from Cardinia Road to Toomuc Creek as an Undivided Local Arterial Road @ \$2229 per m \$2,463,045 Costs Include (10% of Construction Cost for Design & Project Management & 20% contingency) Total Cost to be funded by DCP (difference between a Divided and Undivided LAR) \$1,382,355 Costing Justification Based on CRPDCP Future Traffic Estimates & Road Infrastructure Requirements (Rev 7) report, John Piper Traffic Pty Ltd / Ashton Traffic Pty Ltd, August 2007. Item LAR01, Appendix 5vii & 5viii. Related Projects DI_LA4b, DI_R020, DI_R07

The Project Cost is expressed in December 2007 dollars.

Version

Ref#

90



DI_RO_7	Road Bridge Construction - Henry Road over Toomuc Creek									
Description	Road Bridge co	Road Bridge constructed over the Toomuc Creek on Henry Road.								
	Int	frastructure Ty	ne	Inf	rastructure Cat	egory				
		pment Infrasti		1111	Roads	cgory				
Project Cost	\$1,695,890	pinone minada	actaro		Hoddo					
Project Timing	2008 - 2013									
Strategic Justification	This project is r			derly and proper		of the area and				
External Usage Discount	50%									
Project Cost to MCA	\$847,945									
Apportionment of Costs	_	This item is likely to be used equally by both the residents of Cell 6 and the community directly to the east of the cell 6 boundary								
MCA Cells	Cell 1	Cell 2	Cell 3	Cell 4	Cell 5	Cell 6				
Cost Apportioned to Cell						50.0%				
Capital Cost						\$847,945				
Present Value Cost						\$597,768				
Present Value Demand Units						93.2				
Levy Amount						\$6,414.62				
List of Works Required	Design & Project Management (15% of construction cost) \$173,238									
	Bridge construction (1 x span of 10m, a width of 17m and height of 3m) \$1,116,000									
	Pedestrian underpass \$33,69									
	Creek & landscap	\$68,432								
	Contingency (25%	\$304,530								
Costing Justification				& Road Infrastru						
	Appendix 5viii.	or namerty t	.ca / Adiituii II	anio i ty Ltu, Au	543t 2001. ILEI	II LANOZ,				
Related Projects	DI_R06b									

Version

SEPTEMBER 2008

Ref#

91



DI_RO_8a Road Construction - Henry Road extension (west of Cardinia Road) (Stage 1) Henry Road constructed as a Local Arterial Road (Divided) 33 m reservation, 7.5 m road Description pavement, 6.0 m centre median and 2.5 m shared path on both sides of the road. From Gum Scrub Creek to Cardinia Road. The road length is 1200 m. The DCP is to only fund the difference of the cost of construction between a Local Arterial Road (Undivided) standard to a Local Arterial Road (Divided) standard. **Development Infrastructure** Roads Project Cost \$1,560,000 **Project Timing** 2008 - 2013 Strategic Justification This project is required to provide for the orderly and proper development of the area and ensures traffic growth is directed to the arterial road network. External Usage Discount 0% \$1,560,000 Project Cost to MCA Apportionment of Costs Apportioned to Cell 5. The item is likely to be used by residents of Cell 5 only. MCA Cells Cell 5 Cost Apportioned to Cell 100.0% Capital Cost \$1,560,000 Present Value Cost \$1.099.738 Present Value Demand Units 65.9 Levy Amount \$16,693.06 List of Works Required Cost of Henry Road from Cardinia Road to Gum Scrub Creek as a Divided Local Arterial Road @ \$3553 per m \$4,263,600 Cost of Henry Road from Cardinia Road to Gum Scrub Creek as an Undivided Local Arterial Road @ \$2253 per m \$2,703,600 Costs Include (10% of Construction Cost for Design & Project Management & 20% contingency) \$1,560,000 Total Cost to be funded by DCP (difference between a Divided and Undivided LAR) Costing Justification Based on CRPDCP Future Traffic Estimates & Road Infrastructure Requirements (Rev 7) report, John Piper Traffic Pty Ltd / Ashton Traffic Pty Ltd, August 2007. Item LAR03 Appendix 5x & 5xi. Related Projects DI_LA5a, DI_RO21a, DI_RO19a

The Project Cost is expressed in December 2007 dollars.

Version

SEPTEMBER 2008



DI_RO_8b Road Construction - Henry Road extension (west of Cardinia Road) (Stage 2) Henry Road constructed as a Local Arterial Road (Divided) 33 m reservation, 7.5 m road Description pavement, 6.0 m centre median and 2.5 m shared path on both sides of the road. From Gum Scrub Creek to Cardinia Road. The road length is 700 m. The DCP is to only fund the difference of the cost of construction between a Local Arterial Road (Undivided) standard to a Local Arterial Road (Divided) standard. **Development Infrastructure** Roads Project Cost \$910,000 2008 - 2013 **Project Timing** Strategic Justification This project is required to provide for the orderly and proper development of the area and ensures traffic growth is directed to the arterial road network. External Usage Discount 0% \$910,000 Project Cost to MCA Apportionment of Costs Apportioned to Cell 5. The item is likely to be used by residents of Cell 5 only. MCA Cells Cell 5 Cost Apportioned to Cell 100.0% Capital Cost \$910,000 Present Value Cost \$641.514 Present Value Demand Units 65.9 Levy Amount \$9,737.62 List of Works Required Cost of Henry Road from Cardinia Road to Gum Scrub Creek as a Divided Local Arterial Road @ \$3553 per m \$2,487,100 Cost of Henry Road from Cardinia Road to Gum Scrub Creek as an Undivided Local Arterial Road @ \$2253 per m \$1,577,100 Costs Include (10% of Construction Cost for Design & Project Management & 20% contingency) \$910,000 Total Cost to be funded by DCP (difference between a Divided and Undivided LAR) Costing Justification Based on CRPDCP Future Traffic Estimates & Road Infrastructure Requirements (Rev 7) report, John Piper Traffic Pty Ltd / Ashton Traffic Pty Ltd, August 2007. Item LAR03, Appendix 5x & 5xi. Related Projects DI_LA5b, DI_RO9b, DI_RO21b

The Project Cost is expressed in December 2007 dollars.

Version

Ref# SEPTEMBER 2008



DI_RO_9a Road Bridge Construction - over Gum Scrub Creek (Officer **Town Centre Link Road)** Road Bridge constructed over the Gum Scrub Creek to a Local Arterial Road (Undivided) Description standard, north of railway line. **Development Infrastructure** Roads Project Cost \$913,830 **Project Timing** 2018 - 2023 Strategic Justification This project is required to provide for the orderly and proper development of the area and ensures traffic growth is directed to the arterial road network. External Usage Discount 50% Project Cost to MCA \$456,915 Apportionment of Costs This item is likely to be used equally by both the residents of Cell 3 and the community directly to the west of the cell 3 boundary Cell 3 MCA Cells Cell 6 Cost Apportioned to Cell 50.0% Capital Cost \$456,915 Present Value Cost \$179.863 Present Value Demand Units 41.2 \$4,361.04 Levy Amount List of Works Required Design & Project Management (15% of construction cost) \$97,910 Bridge construction (1 x span of 10m, a width of 15m and height of 3m) \$631,680 Creek & landscaping works \$21,056 Contingency (25%) \$163,184 Costing Justification Based on CRPDCP Future Traffic Estimates & Road Infrastructure Requirements (Rev 7) report, John Piper Traffic Pty Ltd / Ashton Traffic Pty Ltd, August 2007. Item CR1, Appendix 5xxiii. Related Projects N/A

The Project Cost is expressed in December 2007 dollars.

Version

SEPTEMBER 2008



DI_RO_9b Road Bridge Construction - Henry Road over Gum Scrub Creek (Officer Town Centre Link Road) Road Bridge constructed over the Gum Scrub Creek on Henry Road to a Local Arterial Description Road (Undivided) standard. **Development Infrastructure** Roads \$1,245,462 Project Cost **Project Timing** 2013 - 2018 Strategic Justification This project is required to provide for the orderly and proper development of the area and ensures traffic growth is directed to the arterial road network. External Usage Discount 50% Project Cost to MCA \$622,731 Apportionment of Costs This item is likely to be used equally by both the residents of Cell 5 and the community directly to the west of the cell 5 boundary Cell 5 MCA Cells Cell 4 Cost Apportioned to Cell 50.0% Capital Cost \$622,731 Present Value Cost \$328.047 Present Value Demand Units 65.9 Levy Amount \$4,979.46 List of Works Required Design & Project Management (15% of construction cost) \$133,442 Bridge construction (2 x span of 10m, a width of 10.5m and height of 3m) \$863,296 Creek & landscaping works \$26,320 \$222,404 Contingency (25%) Costing Justification Based on CRPDCP Future Traffic Estimates & Road Infrastructure Requirements (Rev 7) report, John Piper Traffic Pty Ltd / Ashton Traffic Pty Ltd, August 2007. Item LAR04, Appendix 5xii. **Related Projects** DI_R08b, DI_LA5b

The Project Cost is expressed in December 2007 dollars.

Version

SEPTEMBER 2008



DI_RO_10 Road Construction - northern East West Road (west of Cardinia Road extension) includes culvert across Gum Scrub & Quirks Northern East West Road constructed as a Local Arterial Road (Divided) 33 m reservation, 7.5 m McMullen Road to Cardinia Road extension, includes bridge across Gum Scrub & Quirks Creek. From Gum Scrub Creek to the western boundary of Lot 6, LP213299 (Peck Road) the length is 1420 m. The DCP is to only fund the difference of the cost of construction between a Local Arterial Road (Undivided) standard to a Local Arterial Road (Divided) standard.

Infrastructure Type	Infrastructure Category			
Development Infrastructure	Roads			
\$2,433,592				

Project Cost

Project Timing 2008 - 2013

Strategic Justification

This project is required to provide for the orderly and proper development of the area and ensures traffic growth is directed to the arterial road network.

External Usage Discount

Project Cost to MCA \$2,433,592

0%

Apportionment of Costs

Apportioned to Cell 1. The item is likely to be used by residents of Cell 1 only.

MCA Cells	Cell 1	Cell 2	Cell 3	Cell 4	Cell 5	Cell 6
Cost Apportioned to Cell	100.0%					
Capital Cost	\$2,433,592					
Present Value Cost	\$1,715,586					
Present Value Demand Units	115.5					
Levy Amount	\$14,854.73					

List of Works Required

Cost of northern East West Road as a Divided Local Arterial Road @ \$3693 per m (incl 10% construction cost for Design & Project Management & 20% contingency) \$5,244,060 Culverts across creeks as a Divided Local Arterial Road (Gum Scrub Creek x 2) (incl 15% construction cost for Design & Project Management & 25% contingency) \$1,473,920 Cost of northern East West Road as an Undivided Local Arterial Road @ \$2083 per m (incl 10% construction cost for Design & Project Management & 20% \$2,957,860 Culverts across creeks as an Undivided Local Arterial Road (Gum Scrub Creek x 2) (incl 15% construction cost for Design & Project Management & 25% contingency) \$1,326,528 Total Cost to be funded by DCP (difference between a Divided and Undivided LAR)

Costing Justification

Based on CRPDCP Future Traffic Estimates & Road Infrastructure Requirements (Rev 7) report, John Piper Traffic Pty Ltd / Ashton Traffic Pty Ltd, August 2007. Item LAR05, Appendix 5xiii, 5xiv & 5xv.

Related Projects

DI_LA6, DI_RO22b, DI_RO24

The Project Cost is expressed in December 2007 dollars.

Version

SEPTEMBER 2008



DI_RO_11 Road Construction - northern East West Road (east of Cardinia Road extension) Northern East West Road constructed as a Local Arterial Road (Divided) 33 m reservation, 7.5 m Description road pavement, 6.0 m centre median and 2.5 m shared path on both sides of the road. From the western boundary of Lot 6, LP213299 (Peck Road) to Thewlis Road the length is 975 m. The DCP is to only fund the difference of the cost of construction between a Local Arterial Road (Undivided) standard to a Local Arterial Road (Divided) standard. **Development Infrastructure** Roads Project Cost \$1,569,750 **Project Timing** 2008 - 2013 Strategic Justification This project is required to provide for the orderly and proper development of the area and ensures traffic growth is directed to the arterial road network. External Usage Discount 0% Project Cost to MCA \$1,569,750 Apportionment of Costs Apportioned to Cell 1. The item is likely to be used by residents of Cell 1 only. Cell 1 MCA Cells Cell 4 Cost Apportioned to Cell 100.0% Capital Cost \$1,569,750 **Present Value Cost** \$1.106.612 Present Value Demand Units 115.5 Levy Amount \$9,581.81 List of Works Required Cost of northern East West Road as a Divided Local Arterial Road @ \$3693 per m \$3,600,675 Cost of northern East West Road as an Undivided Local Arterial Road @ \$2083 per \$2,030,925 - Costs Include (10% of Construction Cost for Design & Project Management & 20% contingency) Total Cost to be funded by DCP (difference between a Divided and Undivided LAR) \$1,569,750 Costing Justification Based on CRPDCP Future Traffic Estimates & Road Infrastructure Requirements (Rev 7) report, John Piper Traffic Pty Ltd / Ashton Traffic Pty Ltd, August 2007. Item LAR05, Appendix 5xiii & 5xiv. Related Projects DI_LA7, DI_RO22a, DI_RO22b

The Project Cost is expressed in December 2007 dollars.

Version

Ref# SEPTEMBER 2008



DI_R0_12 Road Construction - Cardinia Road extension (northern link) Cardinia Road extension constructed as a Local Arterial Road (Divided) 33 m reservation, 7.5 m road Description pavement, 6.0 m centre median and 2.5 m shared path on both sides of the road, includes pavement for roundabout. From Princes Highway to the northern East West Road the length is 250 m. The DCP is to only fund the difference of the cost of construction between a Local Arterial Road (Undivided) standard to a Local Arterial Road (Divided) standard. **Development Infrastructure** Roads \$153,750 Project Cost **Project Timing** 2008 - 2013 Strategic Justification This project is required to provide for the orderly and proper development of the area and ensures traffic growth is directed to the arterial road network. External Usage Discount 0% Project Cost to MCA \$153,750 Apportionment of Costs Apportioned to Cell 1. The item is likely to be used by residents of Cell 1 only. MCA Cells Cell 1 Cost Apportioned to Cell 100.0% Capital Cost \$153,750 **Present Value Cost** \$108.388 Present Value Demand Units 115.5 Levy Amount \$938.50 List of Works Required Cost of Cardinia Road extension as a Divided Local Arterial Road (including paving \$975,250 for roundabout island) @ \$3901 per m Cost of Cardinia Road extension as an Undivided Local Arterial Road (including paving for roundabout island) @ \$3286 per m \$821,500 Costs Include (10% of Construction Cost for Design & Project Management & 20% contingency) \$153,750 Total Cost to be funded by DCP (difference between a Divided and Undivided LAR) Costing Justification Based on CRPDCP Future Traffic Estimates & Road Infrastructure Requirements (Rev 7) report, John Piper Traffic Pty Ltd / Ashton Traffic Pty Ltd, August 2007. Item LAR07, Appendix 5xvi & 5xvii. Related Projects DI_LA8, DI_RO16

The Project Cost is expressed in December 2007 dollars.

Version

Ref#



DI_R0_13 Road Construction - Upgrade of Thewlis Road Upgrade of Thewlis Road constructed as a Local Arterial Road (Divided) 33 m reservation, 7.5 m Description road pavement, 6.0 m centre median and 2.5 m shared path on both sides of the road. From Princes Highway to the Northern East West Road. The road length is 400 m. The DCP is to only fund the difference of the cost of construction between a Local Arterial Road (Undivided) standard to a Local Arterial Road (Divided) standard. **Development Infrastructure** Roads Project Cost \$306,028 **Project Timing** 2008 - 2013 Strategic Justification This project is required to provide for the orderly and proper development of the area and ensures traffic growth is directed to the arterial road network. External Usage Discount 0% Project Cost to MCA \$306,028 Apportionment of Costs Apportioned to the region north of the Princes Highway (Cells 1&2) in accordance with the projected dwelling yield of each cell. The item is likely to be used by the residents of this region. MCA Cells Cell 2 Cell 4 Cost Apportioned to Cell 70.3% 29.7% Capital Cost \$215,240 \$90,788 **Present Value Cost** \$151.735 \$64.002 Present Value Demand Units 115.5 69.4 Levy Amount \$1,313.83 \$921.70 List of Works Required Cost of Thewlis Road as a Divided Local Arterial Road \$1,462,255 Cost of Thewlis Road as an Undivided Local Arterial Road \$1,156,227 Costs Include (10% of Construction Cost for Design & Project Management & 20% contingency) Total Cost to be funded by DCP (difference between a Divided and Undivided LAR) \$306,028 Costing Justification Based on CRPDCP Future Traffic Estimates & Road Infrastructure Requirements (Rev 7) report, John Piper Traffic Pty Ltd / Ashton Traffic Pty Ltd, August 2007. Item LAR08, Appendix 5xvi & 5xvii. Related Projects DI_LA9, DI_RO22a, DI_RO17

The Project Cost is expressed in December 2007 dollars.

Version

Ref#



DI_RO_14a Road Construction - Lakeside Drive extension (northern link) (Stage 1) Lakeside Drive extension constructed as a Local Arterial Road (Divided) 33 m reservation, Description 7.5 m road pavement, 6.0 m centre median and 2.5 m shared path on both sides of the road. Based on requirements outlined in a S173 Agreement (2005), the DCP will fund the full construction cost for the length of road from Princes Highway for a length of 151m. **Development Infrastructure** Roads Project Cost \$512,796 2008 - 2013 **Project Timing** Strategic Justification This project is required to provide for the orderly and proper development of the area and ensures traffic growth is directed to the arterial road network. External Usage Discount 0% Project Cost to MCA \$512,796 Apportionment of Costs Apportioned to Cell 2. The item is likely to be used by residents of Cell 2 only. Cell 2 MCA Cells Cost Apportioned to Cell 100.0% Capital Cost \$512,796 Present Value Cost \$483.770 Present Value Demand Units 69.4 \$6,966.79 Levy Amount List of Works Required Cost of Lakeside Drive extension as a Divided Local Arterial Road @ \$3396 per m \$512,796 Costs Include (10% of Construction Cost for Design & Project Management & 20% contingency) Total Cost to be funded by DCP \$512,796 Costing Justification Based on CRPDCP Future Traffic Estimates & Road Infrastructure Requirements (Rev 7) report, John Piper Traffic Pty Ltd / Ashton Traffic Pty Ltd, August 2007. Item LAR09, Appendix 5xx & 5xxi. **Related Projects** DI_LA10a

The Project Cost is expressed in December 2007 dollars.

Ref# Version



DI_RO_14b Road Construction - Lakeside Drive extension (northern link) (Stage 2) Lakeside Drive extension constructed as a Local Arterial Road (Divided) 33 m reservation, Description 7.5 m road pavement, 6.0 m centre median and 2.5 m shared path on both sides of the road. From Stage 1 to the northern East West Road the road length is 299 m. The DCP is to only fund the difference of the cost of construction between a Local Arterial Road (Undivided) standard to a Local Arterial Road (Divided) standard. **Development Infrastructure** Roads Project Cost \$191,360 2008 - 2013 **Project Timing** Strategic Justification This project is required to provide for the orderly and proper development of the area and ensures traffic growth is directed to the arterial road network. External Usage Discount 0% Project Cost to MCA \$191,360 Apportionment of Costs Apportioned to Cell 2. The item is likely to be used by residents of Cell 2 only. Cell 2 MCA Cells Cost Apportioned to Cell 100.0% Capital Cost \$191,360 Present Value Cost \$134.901 Present Value Demand Units 69.4 \$1,942.72 Levy Amount List of Works Required Cost of Lakeside Drive extension as a Divided Local Arterial Road @ \$3396 per m \$1,015,404 Cost of Lakeside Drive extension as an Undivided Local Arterial Road @ \$2756 per \$824,044 - Costs Include (10% of Construction Cost for Design & Project Management & 20% contingency) Total Cost to be funded by DCP (difference between a Divided and Undivided LAR) \$191,360 Costing Justification Based on CRPDCP Future Traffic Estimates & Road Infrastructure Requirements (Rev 7) report, John Piper Traffic Pty Ltd / Ashton Traffic Pty Ltd, August 2007. Item LAR09, Appendix 5xx & 5xxi. Related Projects DI_LA10b, DI_R023

The Project Cost is expressed in December 2007 dollars.

Version

Ref#



DI_RO_15 Signalised Intersection - Princes Highway and North South **Collector Road** Princes Highway and North South Collector Road intersection located east of Gum Scrub Description Creek. Upgrade of Collector Road not funded by DCP. **Development Infrastructure** Roads Project Cost \$742,145 **Project Timing** 2008 - 2013 Strategic Justification This project is required to provide the necessary signalised intersections for the safe and efficient access to and within the structure plan area. External Usage Discount 0% Project Cost to MCA \$742,145 Apportionment of Costs Apportioned evenly to Cells 1&3 in accordance with the projected dwelling yield of each cell. The item is likely to be used equally by residents of both cells. Cell 3 MCA Cells Cell 1 Cell 6 Cost Apportioned to Cell 77.2% 22.8% Capital Cost \$573,027 \$169,118 Present Value Cost \$403.961 \$119.222 Present Value Demand Units 115.5 41.2 Levy Amount \$3,497.78 \$2,890.70 List of Works Required Design & Project Management (10% of construction works) \$57,088 Traffic signal installation \$263,200 \$297,153 Roadworks Signs & linemarking \$10,528 Contingency (20%) \$114,176 Costing Justification Based on CRPDCP Future Traffic Estimates & Road Infrastructure Requirements (Rev 7) report, John Piper Traffic Pty Ltd / Ashton Traffic Pty Ltd, August 2007. Item IW01, Appendix 5 xxiv. **Related Projects**

The Project Cost is expressed in December 2007 dollars.

Version

102 SEPTEMBER 2008



DI_R0_16 Signalised Intersection - Princes Highway and Cardinia Road Description Princes Highway and Cardinia Road intersection. **Development Infrastructure** Roads Project Cost \$790,732 **Project Timing** 2008 - 2013 Strategic Justification This project is required to provide the necessary signalised intersections for the safe and efficient access to and within the structure plan area. External Usage Discount 66% Project Cost to MCA \$269,640 Apportionment of Costs Cost apportionment based on CRPDCP Future Traffic Estimates & Road Infrastructure Requirements (Rev 7) report, John Piper Traffic Pty Ltd / Ashton Traffic Pty Ltd, August 2007 (point 'IW02') Cell 3 Cell 5 Cell 6 MCA Cells Cell 2 Cost Apportioned to Cell 16.8% 10.1% 3.6% 0.7% 2.9% Capital Cost \$132,843 \$79,864 \$28,466 \$5,535 \$22,931 Present Value Cost \$93,649 \$56.301 \$20.068 \$3,902 \$16.166 Present Value Demand Units 115.5 69.4 41.2 65.9 93.2 \$810.79 Levy Amount \$810.88 \$486.57 \$59.23 \$173.47 List of Works Required Design & Project Management (10% of construction works) \$60,826 Traffic signal installation \$263,200 \$334,527 Roadworks Signs & linemarking \$10,528 \$121,651 Contingency (20%) Costing Justification Based on CRPDCP Future Traffic Estimates & Road Infrastructure Requirements (Rev 7) report, John Piper Traffic Pty Ltd / Ashton Traffic Pty Ltd, August 2007. Item IW02, Appendix 5xxv. **Related Projects** DO_RO1, DI_RO12, DI_LA1, DI_LA8

The Project Cost is expressed in December 2007 dollars.

Version

Ref# 103 SEPTEMBER 2008



DI_RO_17 Signalised Intersection - Princes Highway and Thewlis Road Princes Highway and Thewlis Road intersection. Description **Development Infrastructure** Roads Project Cost \$687,228 **Project Timing** 2008 - 2013 Strategic Justification This project is required to provide the necessary signalised intersections for the safe and efficient access to and within the structure plan area. External Usage Discount 0% Project Cost to MCA \$687,228 Apportionment of Costs Apportioned evenly to Cells 1&2 in accordance with the projected dwelling yield of each cell. The item is likely to be used equally by residents of both cells. Cell 2 MCA Cells Cell 6 Cost Apportioned to Cell 70.3% 29.7% Capital Cost \$483,351 \$203,878 Present Value Cost \$340.743 \$143.726 Present Value Demand Units 115.5 69.4 \$2,069.80 Levy Amount \$2,950.39 List of Works Required Design & Project Management (10% of construction works) \$52,864 Traffic signal installation \$263,200 \$257,015 Roadworks Signs & linemarking \$8,422 \$105,727 Contingency (20%) Costing Justification Based on CRPDCP Future Traffic Estimates & Road Infrastructure Requirements (Rev 7) report, John Piper Traffic Pty Ltd / Ashton Traffic Pty Ltd, August 2007. Item IW03, Appendix 5 xxvi. **Related Projects** DI_R013, DI_LA9

The Project Cost is expressed in December 2007 dollars.

Version

Ref#



DI_R0_18 Signalised Intersection - Cardinia Road and Shearwater Drive Cardinia Road and Shearwater Drive intersection. Upgrade of Collector Roads not funded Description by DCP. **Development Infrastructure** Roads Project Cost \$444,295 **Project Timing** 2008 - 2013 Strategic Justification This project is required to provide the necessary signalised intersections for the safe and efficient access to and within the structure plan area. External Usage Discount 0% Project Cost to MCA \$444,295 Apportionment of Costs Apportioned to the region between the Princes Hwy and Railway Line (Cells 3&4) in accordance with the projected dwelling yield of each cell. The item is likely to be used by the residents of this region. Cell 3 MCA Cells Cell 4 Cost Apportioned to Cell 22.1% 77.9% Capital Cost \$98,365 \$345,930 Present Value Cost \$69.344 \$243.867 Present Value Demand Units 41.2 180.4 \$1,351.45 Levy Amount \$1,681.34 List of Works Required Design & Project Management (10% of construction works) \$34,177 Traffic signal installation \$210,560 \$122,783 Roadworks Signs & linemarking \$8,422 \$68,353 Contingency (20%) Costing Justification Based on CRPDCP Future Traffic Estimates & Road Infrastructure Requirements (Rev 7) report, John Piper Traffic Pty Ltd / Ashton Traffic Pty Ltd, August 2007. Item IW04, Appendix 5 xxvii. **Related Projects** DI_RO1, DO_RO2, DI_LA1, DI_LA2

The Project Cost is expressed in December 2007 dollars.

Version

Ref# 105 SEPTEMBER 2008



DI_R0_19a	Signalised Intersection - Cardinia Road and Henry Road								
Description	Cardinia Road	Cardinia Road and Henry Road intersection.							
	In	frastructure T	ype	Inf	frastructure Cate	gory			
		opment Infrast			Roads				
Project Cost	\$561,998			•					
Project Timing	2008 - 2013								
Strategic Justification			ovide the neces		intersections for	r the safe and			
External Usage Discount	0%								
Project Cost to MCA	\$561,998								
Apportionment of Costs		-	in accordance w by residents of b		dwelling yield of e	ach cell. The			
MCA Cells	Cell 1	Cell 2	Cell 3	Cell 4	Cell 5	Cell 6			
Cost Apportioned to Cell					45.2%	54.8%			
Capital Cost					\$253,911	\$308,087			
Present Value Cost					\$178,997	\$217,189			
Present Value Demand Units					65.9	93.2			
Levy Amount					\$2,717.02	\$2,330.65			
List of Works Required	Design & Project Management (10% of construction works) \$43,231								
	Traffic signal installation \$263,200								
	Roadworks	Roadworks \$163,842							
	Signs & linemark	Signs & linemarking \$5,264							
	Contingency (20%) \$86,4								
Costing Justification		per Traffic Pty			ructure Requirem ugust 2007. Item				
Related Projects			DI RO6a DI L	A2, DI_LA3, DI_	IA4a, DI IA5a				
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Ref# 106 SEPTEMBER 2008



DI_RO_19b Signalised Intersection - Cardinia Road Activity Centre and **Henry Road** Cardinia Road Activity Centre and Henry Road intersection. Description **Development Infrastructure** Roads Project Cost \$246,355 **Project Timing** 2008 - 2013 Strategic Justification This project is required to provide the necessary signalised intersections for the safe and efficient access to and within the structure plan area. External Usage Discount 0% Project Cost to MCA \$246,355 Apportionment of Costs Apportioned to Cell 6. The item is likely to be used by residents of Cell 6 only. Cell 6 MCA Cells Cell 4 Cost Apportioned to Cell 100.0% Capital Cost \$246,355 Present Value Cost \$173,671 Present Value Demand Units 93.2 Levy Amount \$1,863.65 List of Works Required Design & Project Management (10% of construction cost) \$18,950 Traffic Signal Installation (T intersection) \$157,920 Road allowance \$10,528 Street lighting \$15,792 \$5,264 Signs & linemarking Contingency (nominal 20%) \$37,901 Costing Justification Based on CRPDCP Future Traffic Estimates & Road Infrastructure Requirements (Rev 7) report, John Piper Traffic Pty Ltd / Ashton Traffic Pty Ltd, August 2007. Item IW06a, Appendix 5 xxx. Related Projects DI_RO6a, DI_LA4a

The Project Cost is expressed in December 2007 dollars.

Version

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DI_RO_20	Roundabe	uts - nemy	Roau (ea	st of Cardin	ia Roau)				
Description	Henry Road (east of Cardinia Road) and collector/local streets (3 in total).								
	lr.	nfrastructure Ty	ре	Inf	rastructure Cat	egory			
		opment Infrasti			Roads	3 ,			
Project Cost	\$1,123,962			•					
Project Timing	2008 - 2013								
Strategic Justification	This project is required to provide the necessary roadworks for the safe and efficient access to and within the structure plan area.								
External Usage Discount	0%								
Project Cost to MCA	\$1,123,962								
Apportionment of Costs	Apportioned to	Cell 6. The item is	likely to be use	ed by residents of	Cell 6 only.				
MCA Cells	Cell 1	Cell 2	Cell 3	Cell 4	Cell 5	Cell 6			
Cost Apportioned to Cell						100.0%			
Capital Cost						\$1,123,962			
Present Value Cost						\$792,349			
Present Value Demand Units						93.2			
Levy Amount						\$8,502.66			
List of Works Required	Cost of roundabout along Henry Road extension (LAR divided/undivided) @ \$348,080 Cost of roundabout along Henry Road extension (LAR divided) @ \$387941 x 2 \$775,882								
	- Costs Include (contingency)	(10% of Construct	cion Cost for Des	sign & Project Ma	nagement & 20%				
Costing Justification	report, John P	iper Traffic Pty L ix & IW06b&c A	td / Ashton Tr	& Road Infrastr raffic Pty Ltd, Au	•	, ,			

Ref# Version



DI_RO_21a	Roundab	outs - Henry	Road (wes	st of Cardir	nia Road) (St	age 1)				
Description	Henry Road (west of Cardinia Road) and collector/local streets (1 in total).									
		Infrastructure Ty	ne	Inf	frastructure Cate	orv.				
	Dev	elopment Infrastr			Roads	501 9				
Project Cost	\$387,941									
Project Timing	2008 - 2013	}								
Strategic Justification		This project is required to provide the necessary roadworks for the safe and efficient access to the development area.								
External Usage Discount	0%									
Project Cost to MCA	\$387,941									
Apportionment of Costs	Apportioned to	Cell 5. The item is	s likely to be used	d by residents of	Cell 5 only.					
MCA Cells	Cell 1	Cell 2	Cell 3	Cell 4	Cell 5	Cell 6				
Cost Apportioned to Cell					100.0%					
Capital Cost					\$387,941					
Present Value Cost					\$273,483					
Present Value Demand Units					65.9					
Levy Amount					\$4,151.23					
List of Works Required		about along Henry Fe				\$387,941				
Costing Justification		Piper Traffic Pty L			ructure Requirements					
Related Projects	DI_R08a, DI	_LA5a								

Ref# Version



DI_RO_21b	Roundab	outs - Henry	Road (wes	st of Cardir	nia Road) (St	age 2)		
Description	Henry Road (west of Cardinia Road) and collector/local streets (1 in total).							
		Infrastructure Ty	ne	Int	frastructure Cate	ชกrv		
	Dev	elopment Infrastr			Roads	501 9		
Project Cost	\$387,941	оторитоне ини с ен.		<u> </u>	7.0000			
Project Timing	2008 - 2013	}						
Strategic Justification			vide the necess	sarv roadworks	for the safe and	efficient		
		e development ar						
External Usage Discount	0%							
Project Cost to MCA	\$387,941							
Apportionment of Costs	Apportioned to	Cell 5. The item is	s likely to be used	by residents of	Cell 5 only.			
MCA Cells	Cell 1	Cell 2	Cell 3	Cell 4	Cell 5	Cell 6		
Cost Apportioned to Cell					100.0%			
Capital Cost					\$387,941			
Present Value Cost					\$273,483			
Present Value Demand Units					65.9			
Levy Amount					\$4,151.23			
List of Works Required		about along Henry F				\$387,941		
Costing Justification		Piper Traffic Pty L			ructure Requirem ugust 2007. Item			
Related Projects	DI_R08b, DI	_LA5b						

Ref# Version



DI_RO_22a Roundabouts - northern East West Road (east of Cardinia Road extension) (Stage 1) Northern East West Road (at Thewlis Road and west of Thewlis Road) and collector/local Description streets (2 in total). **Development Infrastructure** Roads Project Cost \$764,932 2008 - 2013 **Project Timing** Strategic Justification This project is required to provide the necessary roadworks for the safe and efficient access to the development area. External Usage Discount 0% Project Cost to MCA \$764,932 Apportionment of Costs Apportioned to the region north of the Princes Highway (Cells 1&2) in accordance with the projected dwelling yield of each cell. The item is likely to be used by the residents of this region. Cell 2 MCA Cells Cell 4 Cost Apportioned to Cell 70.3% 29.7% Capital Cost \$538,002 \$226,930 Present Value Cost \$379.270 \$159.977 Present Value Demand Units 115.5 69.4 \$3,283.98 \$2,303.83 Levy Amount List of Works Required Cost of roundabout along East West Road (LAR divided) @ \$382466 x 2 \$764,932 Costs Include (10% of Construction Cost for Design & Project Management & 20% contingency) Costing Justification Based on CRPDCP Future Traffic Estimates & Road Infrastructure Requirements (Rev 7) report, John Piper Traffic Pty Ltd / Ashton Traffic Pty Ltd, August 2007. Item IW07b & c, Appendix 5 xxxiii. **Related Projects** DI_R011, DI_R013, DI_LA7, DI_LA9

The Project Cost is expressed in December 2007 dollars.

Version

Ref# 111 SEPTEMBER 2008



DI_R0_22b	Roundabouts - northern East West Road (east of Cardinia Road extension) (Stage 2)							
Description	Northern East West Road (at Cardinia Road extension) and collector/local streets (1 in total).							
	In	frastructure Typ	oe	Inf	rastructure Cate	gorv		
		pment Infrastr			Roads	<u> </u>		
Project Cost	\$382,466			•				
Project Timing	2013 - 2018							
Strategic Justification	This project is required to provide the necessary roadworks for the safe and efficient access to the development area.							
External Usage Discount	0%							
Project Cost to MCA	\$382,466							
Apportionment of Costs	Apportioned to Co	ell 1. The item is	likely to be used	l by residents of	Cell 1 only.			
MCA Cells	Cell 1	Cell 2	Cell 3	Cell 4	Cell 5	Cell 6		
Cost Apportioned to Cell	100.0%							
Capital Cost	\$382,466							
Present Value Cost	\$201,478							
Present Value Demand Units	115.5							
Levy Amount	\$1,744.54							
List of Works Required	Cost of roundabo				66 x 1 nagement & 20%	\$382,466		
Costing Justification		er Traffic Pty L			ucture Requirem gust 2007. Item			
Related Projects	DI_R011, DI_L							

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Ref# 112 SEPTEMBER 2008



DI_RO_23	Roundabouts - northern East West Road (east of Cardinia Road extension) (Stage 2)									
Description	Northern East West Road (at Lakeside Drive extension) and collector/local streets (1 in total).									
	Ir	ıfrastructure Type	2	In	frastructure Cate	egorv				
		opment Infrastru			Roads	.8,				
Project Cost	\$377,608			-						
Project Timing	2013 - 2018									
Strategic Justification	This project is required to provide the necessary roadworks for the safe and efficient access to the development area.									
External Usage Discount	0%									
Project Cost to MCA	\$377,608									
Apportionment of Costs	Apportioned to C	Apportioned to Cell 2. The item is likely to be used by residents of Cell 2 only.								
MCA Cells	Cell 1	Cell 2	Cell 3	Cell 4	Cell 5	Cell 6				
Cost Apportioned to Cell		100.0%								
Capital Cost		\$377,608								
Present Value Cost		\$198,919								
Present Value Demand Units		69.4								
Levy Amount		\$2,864.64								
List of Works Required	- Costs Include (contingency)	out (LAR divided wi	n Cost for Desi	gn & Project Ma	nagement & 20%	\$377,608				
Costing Justification		DCP Future Traffi per Traffic Pty Lto iiii.			-					
Related Projects	DI_R014b, DI_	LA10b								

Ref# Version



DI_RO_24	Roundabout - northern East West Road (west of Cardinia Road extension)							
Description	Northern East West Road (west of Cardinia Road extension) and local streets (1 in total).							
	Int	rastructure Typ	е	Inf	rastructure Cate	gory		
	Develo	pment Infrastr	ucture		Roads			
Project Cost	\$382,466							
Project Timing	2018 - 2023							
Strategic Justification	This project is r efficient access				intersections for	r the safe and		
External Usage Discount	0%							
Project Cost to MCA	\$382,466							
Apportionment of Costs	Apportioned to Co	ell 1. The item is	likely to be used	by residents of	Cell 1 only.			
MCA Cells	Cell 1	Cell 2	Cell 3	Cell 4	Cell 5	Cell 6		
Cost Apportioned to Cell	100.0%							
Capital Cost	\$382,466							
Present Value Cost	\$150,556							
Present Value Demand Units	115.5							
Levy Amount	\$1,303.62							
List of Works Required	Cost of roundabo - Costs Include (1 contingency)				66 x 1 nagement & 20%	\$382,466		
Costing Justification		er Traffic Pty L			ucture Requirem gust 2007. Item			
Related Projects	DI_R010, DI_L/	46						

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DI_RO_25 **Acoustic Consulting Services and Landscape Architectural** Consultancy Services for Freeway Noise Mitigation Engage Marshall Day Acoustics to undertake acoustic consulting work in relation to consistent freeway noise Description mitigation, in particular noise barrier heights and other noise options in accordance with the draft scope dated 16 May 2008. Engage Land Design Partnership to establish a consistent design treatment for the Pakenham Bypass in accordance with the draft scope dated 9 May 2008. Marshall Day Acoustics and Land Design Partnership are to liaise with each other, Council and Vic Roads. **Development Infrastructure** Roads Project Cost \$22,312 **Project Timing** 2008 - 2013 Strategic Justification The work undertaken by the Consultants will ensure noise mitigation across the entire length of the Pakenham Bypass which is the southern boundary of the PSP. External Usage Discount 0% Project Cost to MCA \$22,312 Apportionment of Costs Apportioned to Cells 5 & 6. These cells abut the Pakenham Bypass. MCA Cells Cost Apportioned to Cell 45.2% 54.8% Capital Cost \$10,081 \$12,232 Present Value Cost \$7,107 \$8.623 Present Value Demand Units 65.9 93.2 Levy Amount \$107.87 \$92.53 List of Works Required Marshall Day Acoustics \$7,000 Land Design Partnership \$11,440 Project Management (10%) \$1,844 \$2,028 Contingency (10%) Costing Justification Based uponquotes provided by Marshall Day Acoustics & Land Design Partnership. Related Projects N/A

The Project Cost is expressed in December 2007 dollars.

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