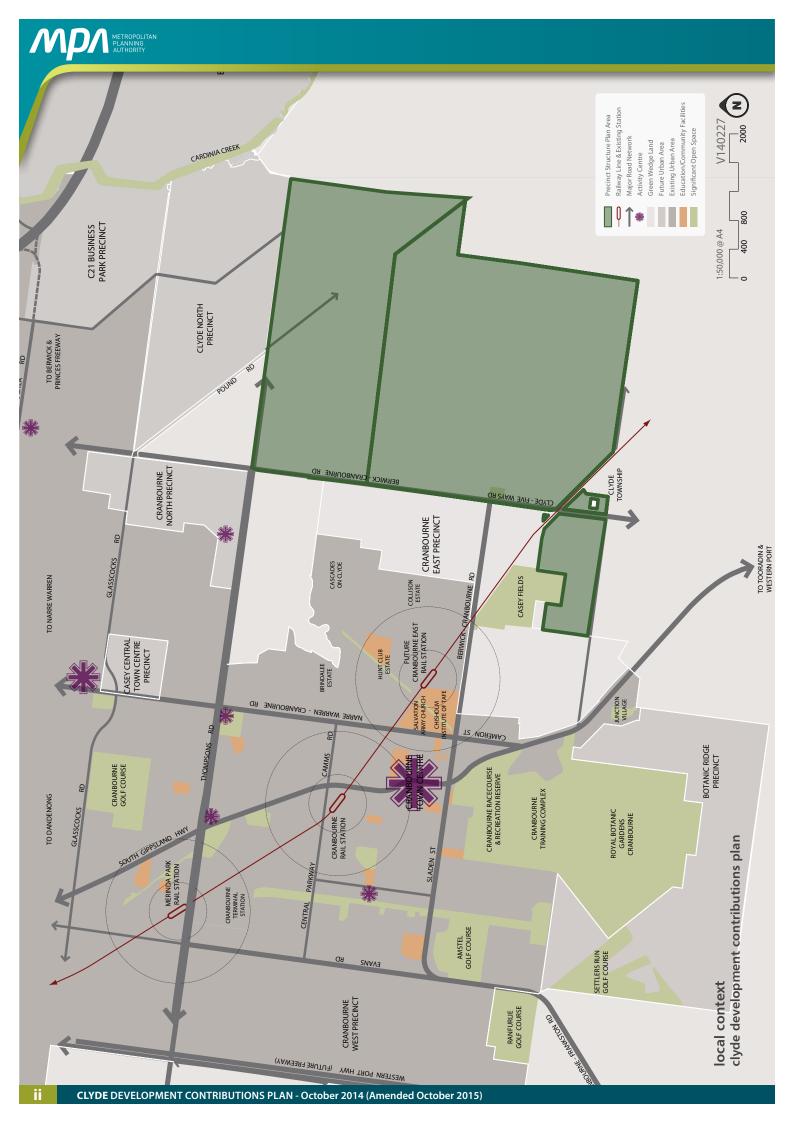
Clyde Development Contributions Plan



October 2014 (Amended October 2015)







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Version	Date	Incorporated into the planning scheme by amendment	Description of changes
1	October 2014	Casey C187	N/A
2	October 2015	Casey C208	Update to land budget tables, costing sheets, land valuations and associated tables.



The following table provides an overview of the project categories and charges included within this DCP. A more detailed explanation of apportionment, methods of calculation and the description and costs of individual projects is included within the document.

C208

Amended by **Table 1** Summary of Charges

SUMMARY - NET DEVELOPABLE AREA (NDA) BY CHARGE AREA					
CHARGE AREA HECTARES PROPORTION OF TOTAL					
Residential (RNDA)	1,345	93%			
Employment (ENDA)	96	7%			
Total	1,440	100%			

SUMMARY - DEVELOPMENT INFRASTRUCTURE LEVY					
PROJECTS	TOTAL COST OF PROJECTS	CHARGE AREAS CONTRIBUTING			
Transport	\$213,256,245	Residential & Employment			
Recreation	\$99,484,158	Residential			
Community	\$36,317,757	Residential			
Total	\$349,058,161				

SUMMARY - DEVELOPMENT INFRASTRUCTURE LEVY BY CHARGE AREA					
CHARGE AREA	TOTAL COST OF CONTRIBUTION	CONTRIBUTION PER NET DEVELOPABLE HECTARE (NDHA)			
Residential	\$334,904,085	\$249,051			
Employment	\$14,154,076	\$148,062			

SUMMARY - COMMUNITY INFRASTRUCTURE LEVY					
ESTIMATED DWELLINGS ESTIMATED TOTAL CONTRIBUTION					
Capped at \$900 per dwelling	21,516	\$19,363,953			



1.0 INTRODUCTION

The Clyde Development Contributions Plan (the 'DCP') has been prepared by the Metropolitan Planning Authority with the assistance of City of Casey, service authorities and other major stakeholders.

The DCP:

- Outlines projects required to ensure that future residents, visitors and workers in the area can be provided with timely access to infrastructure and services necessary to support a quality and affordable lifestyle.
- Establishes a framework for development proponents to make a financial contribution towards the cost of the identified infrastructure projects. It ensures that the cost of providing new infrastructure and services is shared equitably between various development proponents and the wider community.
- Provides the details of the calculation of financial contributions that must be made by future developments towards the nominated projects. In this way, it provides developers, investors and local communities with certainty about development contributions requirements and how these will be administered.

1.1 Report structure

PART 1

Part 1 describes the strategic basis for the Development Contributions Plan.



PART 2

Part 2 sets out the justification for the various infrastructure projects included in the Development Contributions Plan.



PART 3

Part 3 sets out how the development contributions are calculated and costs apportioned.



PART 4

Part 4 focuses on administration and implementation of the Development Contributions Plan.



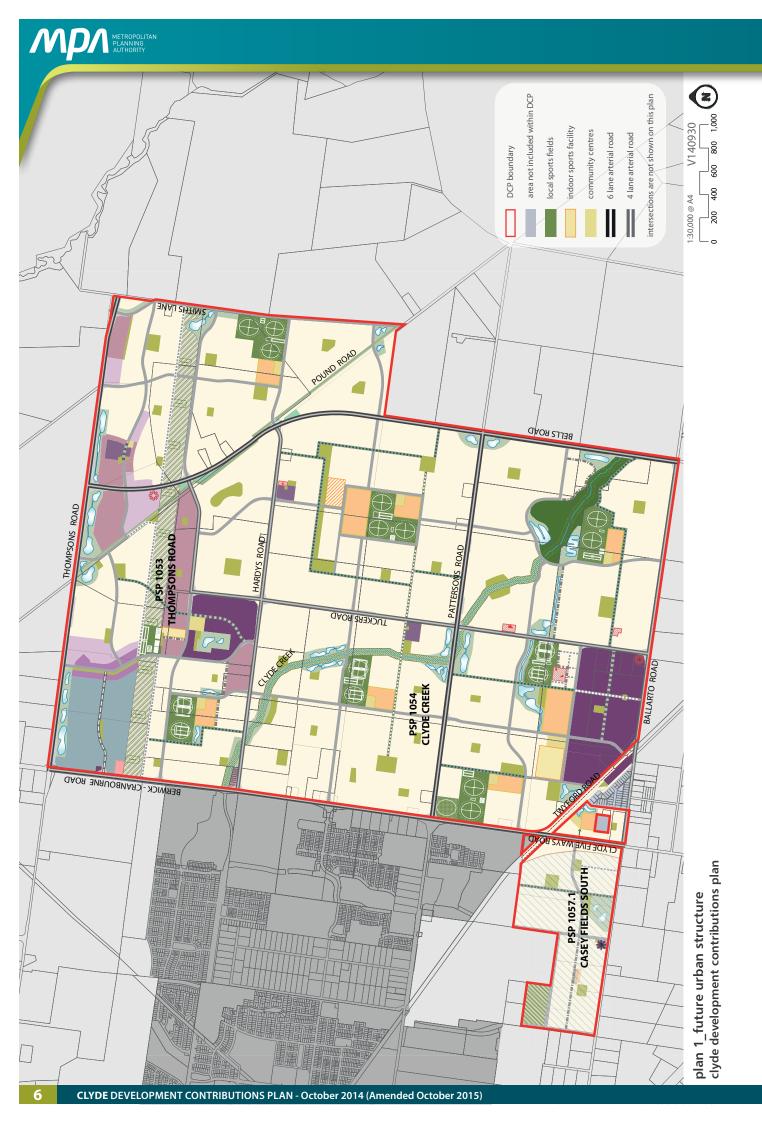
PART 5

Part 5 focuses on implementation of the Development Contributions Plan and identifies infrastructure delivery priorities.



PART 6 and 7

Parts 6 and 7 provide further information on projects, including cost estimate breakdowns, and appendices.





1.2 Strategic basis

The strategic basis for the DCP is established by the State and Local Planning Policy Framework of the Casey Planning Scheme. The key documents are the:

- Growth Corridor Plans.
- Municipal Strategic Statement.
- Thompsons Creek Precinct Structure Plan.
- Clyde Creek Precinct Structure Plan.
- Casey Fields South Precinct Structure Plan.

These documents set out a broad, long term vision for the sustainable development of the DCP area and its surrounds.

The Growth Corridor Plans illustrate the planned extent of residential, employment and other development as well as the location of larger activity centres for each growth area. They also include key elements of infrastructure and services such as the regional open space network, metropolitan public transport networks, freeways and arterial roads.

The DCP is implemented in the Casey Planning Scheme through Schedule 15 to the Development Contributions Plan Overlay.

1.3 Planning & Environment Act 1987

The DCP has been prepared in accordance with Part 3B of the *Planning and Environment Act 1987* (the Act) as well as other relevant legislation and has been developed in line with the State and Local Planning Policy Framework of the Casey Planning Scheme. It is consistent with the Minister for Planning's Directions on Development Contributions made under section 46M(1) of the Act and has regard to the Victorian Government's Development Contributions Guidelines (the 'DCP Guidelines').

The DCP provides for the charging of a Development Infrastructure Levy pursuant to section 46J(a) of the Act towards works, services and facilities. It also provides for the charging of a Community Infrastructure Levy pursuant to section 46J(b) of the Act as some items are classified as community infrastructure by reference to the Act, the Minister's Direction on Development Contributions and the DCP guidelines.

The DCP forms part of the Casey Planning Scheme pursuant to section 46I of the Act and is an incorporated document under Clause 81 of the Casey Planning Scheme.

Development Contributions Plan Overlay applies to the area shown in Plan 1.

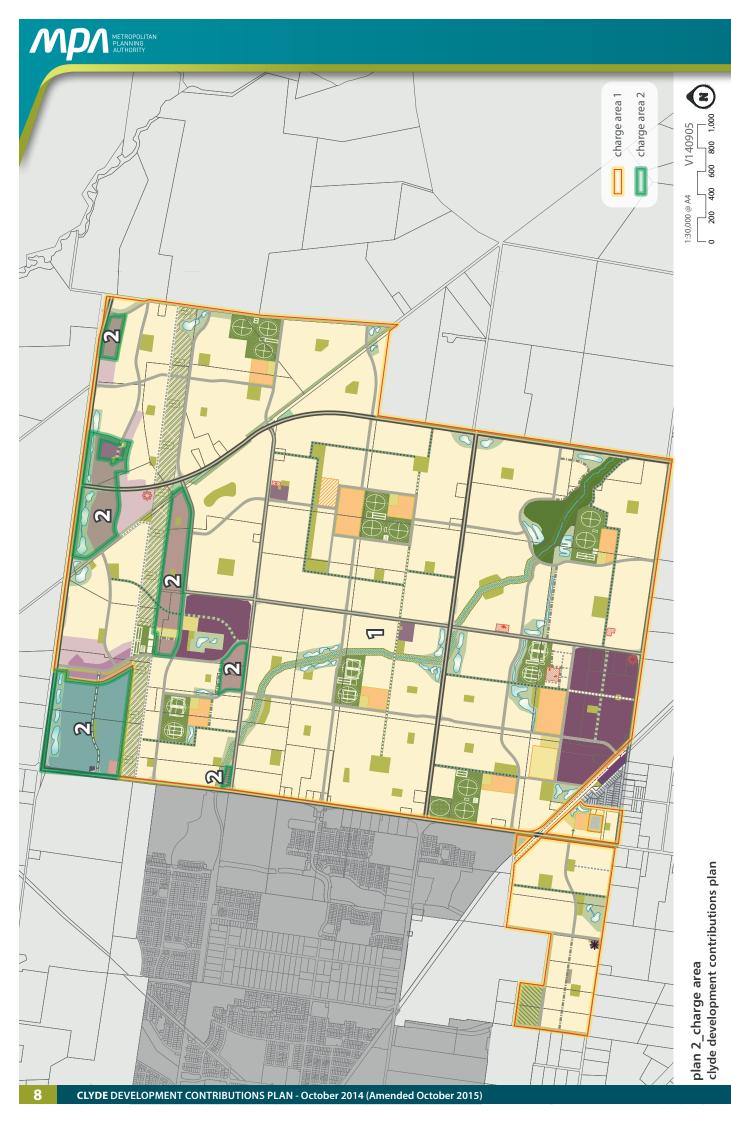
1.4 Strategic planning for Clyde

The area of Clyde covered by the DCP consists of 1,440 hectares of land in the Urban Growth Zone, which was rezoned as part of the 2010 Urban Growth Boundary change.

The proximity of the three Clyde precincts to each other and their location adjacent to existing development has allowed the strategic planning of this part of the sub-corridor to proceed on an integrated basis, with each PSP considering not only its individual needs, but also how it will integrate with and relate to adjoining areas. The transport, community and recreation needs of the future community have all been considered in terms of the whole sub-corridor.

The need for the infrastructure included within the DCP has been determined according to the anticipated development of the Clyde area. The DCP has been prepared in conjunction with the three Precinct Structure Plans which provide the rationale and justification for infrastructure items that have been included. Accordingly, the DCP is an implementation based planning tool which identifies the infrastructure items required by the new community and apportions the cost of this infrastructure in an equitable manner across the plan area.

The Background Reports for the three precincts provide an overview of the planning process for the Clyde area (see relevant PSP).





1.5 Clyde Precinct Structure Plans

The three Clyde PSPs (the PSPs) set out the vision for how land should be developed, illustrate the future urban structure and describe the outcomes to be achieved by the future development. They also list projects required to ensure that future residents, visitors and workers within the area are provided with timely access to services and transport infrastructure necessary to support a quality affordable lifestyle.

The PSPs enable urban development and the future urban structure of the new communities are depicted through a number of networks including transport, open space and local sports fields, social infrastructure, town centres, housing and places for local employment.

Amended by C208 The Thompsons Road PSP will ultimately accommodate approximately 18,035 people and 6,441 dwellings. It is also proposed to deliver 95.60 net developable hectares for employment purposes (in addition to a major town centre), with the potential to deliver 8,900 jobs in the precinct.

Amended by C208

The Clyde Creek PSP will ultimately accommodate approximately 38,109 people and 13,610 dwellings.

Amended by C208

The Casey Fields South PSP will ultimately accommodate approximately 4,100 people and 1,464 dwellings.

The wider Clyde area planning process confirmed:

- A detailed NDA for each PSP based on a survey of encumbrances and a broad allocation of community facilities.
- All road, intersection, and bridge projects required to service the new community.
- The required number of sporting reserves, schools, and community centres.

The PSPs may refine the location and layout of some items included in this DCP but do not amend the project list nor the overall levies rates.



The area to which the Development Contributions Plan applies

In accordance with section 46K(1)(a) of the Planning and Environment Act 1987 the DCP applies to land shown in Plan 1. The area is also shown on Development Contributions Plan Overlay Schedule 15 in the Casey Planning Scheme.

by C208

Amended The DCP applies to approximately 1,440.31 Net Developable Hectares of land including two charge areas as shown in Plan 2.

by C208

Amended Table 2 Charge Areas

	AREA	LABEL
Area 1	1,344.72	Residential
Area 2	95.60	Employment

The DCP clearly demonstrates the infrastructure required to service urban development in PSPs 1053, 1054 and 1057.1. Together, the two charge areas form the Main Catchment Area ('MCA') for the various infrastructure projects. The MCA is the geographic area from which a given item of infrastructure will draw most of its use.

In selecting items, consideration has been given to ensure they are not already wholly funded through another contribution mechanism, such as a mandatory infrastructure construction requirement of the Clyde PSPs, an existing local development contributions plan, an agreement under Section 173 of the Act or as a condition on an existing planning permit. Identified overlap in funding has been addressed, for example by adjusting other relevant development contributions plans or other suitable means provided for in the Planning and Environment Act.

Related infrastructure agreements

A number of projects are apportioned across the adjoining DCP area of Clyde North and to the Melbourne Water Development Services Scheme, and will in the future be apportioned across the DCP areas for Casey Central, Clyde East, Clyde South, and Casey Fields South Employment.

The apportionments listed in Table 12 have taken this into consideration. Refer to Appendix 2 for details of external apportionment.

Project & property identification 1.8

1.8.1 Project identification

The project identification system used in the DCP has been designed to assist in understanding of and navigation through the document. Road, bridge, intersection, and community facility projects have used the identification system of project category, PSP number, and a sequential project number. As an example, a road project in Thompsons Road (PSP 1053) will have the project identifier similar to RD-53-01. The text below provides a summary of the project categories:

- LS = local sports fields
- P = pavilion
- IR = indoor recreation
- RD = road projects
- IN = intersection projects
- CO = community facilities
- BR = bridges and culverts

1.8.2 Property identification

Property identifiers are similar to project identifiers. Each of the properties across the sub-corridor is given a unique identifier that reflects both the PSP and geographic area within that PSP. A property in the Thompsons Road (PSP 1053) may have a property identifier similar to 53-01.



2.0 INFRASTRUCTURE PROJECT JUSTIFICATION

The need for infrastructure included in the DCP has been determined according to the anticipated development of the Clyde area.

Items can be included in a development contributions plan if they will be used by the future community of an area. New development does not have to trigger the need for new items in its own right. The development is charged in line with its projected share of use. An item can be included in a development contributions plan regardless of whether it is within or outside the DCP area.

Before inclusion in the DCP, all items have been assessed to ensure they have a relationship or nexus to proposed development in the DCP area. The cost apportionment methodology adopted in the DCP relies on the nexus principle. A new development is deemed to have a nexus with an item if its future residents or employees are expected to make use of that item.

A summary of how each item is related to proposed development within the DCP area is set out below and individual item apportionments are identified in Table 8.

The items that have been included in the DCP all have the following characteristics:

- They are essential to the health, safety and well being of the community.
- They will be used by a broad cross-section of the community.
- They reflect the vision and objectives expressed in the Clyde PSPs.
- They are not recurrent items.

2.1 Items not included in the Development Contributions Plan

The following items are not included in the DCP, as they are considered to be normal to the construction of a development and are not considered to warrant cost sharing arrangements beyond those set out in this DCP and must be provided by developers as a matter of course and in implementing the PSPs:

- Internal streets and connector streets, creek, drainage line and utility easement crossings and associated traffic management measures (except where nominated in this DCP).
- Waterway management works and drainage systems.
- Intersections connecting the development to the existing road network, except where specified as development contributions plan projects.
- Water, sewerage, underground power, gas and telecommunications services.
- Local pathways and connections to the regional and / or district pathway network.
- Shared path networks, including required crossings of waterways.
- Basic levelling, provision of biodiversity offsets, water tapping and landscaping of local active and passive open space.
- Passive public open space reserve master plans and any agreed associated works required by the PSPs.
- Council's plan checking and supervision.
- Bus stops.

These items may be further addressed and defined by an agreement under s173 of the Act and / or conditions in planning permits.



Construction of the following items has not been included within the DCP as they are determined to be State Infrastructure items:

- Subsequent carriageways of:
 - Thompsons Road;
 - · Bells Road;
 - · Pattersons Road;
 - · Berwick-Cranbourne Road and Clyde-Five Ways Road;
 - Hardys Road;
 - · Tuckers Road.
- Any grade-separated intersections.
- Clyde train station.
- Government primary or secondary schools.

The delivery of the State Infrastructure items will be provided as warranted and as funds become available, which may potentially include Growth Area Infrastructure Charge (GAIC) Work in Kind projects.

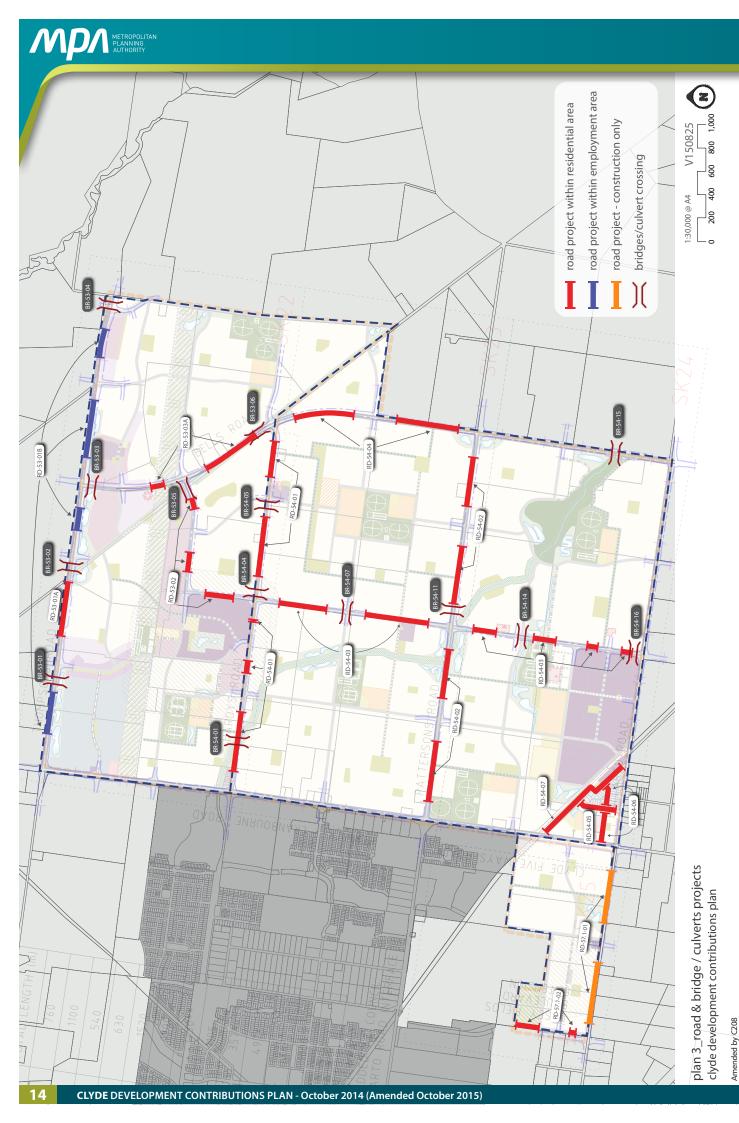
Land for the following items has not been included within the DCP:

- Existing areas affected by the Public Acquisition Overlay in the Casey Planning Scheme for Thompsons Road, Berwick-Cranbourne Road and Clyde-Five Ways Road.
- Land required for any grade-separated intersections (will be acquired through a VicRoads PAO).
- Clyde train station.

If any roads not considered a State responsibility require duplication beyond that allowed for in this DCP, this would be undertaken by Council.



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2.2 Infrastructure projects

The following three types of projects are included in the DCP (refer to Plans 3-6):

- Transport;
- · Recreation;
- Community.

2.2.1 Transport projects

The transport related projects in the DCP are based on the transport network depicted in Plan 3 which is supported by the South East Growth Area Corridor Plan and the Clyde PSPs. The transport projects include a combination of:

- Road construction (including land and waterway crossing requirements); and
- · Construction of major controlled intersections and associated works.

The following road and bridge projects shown in Plan 3 are funded by the DCP:

Amended by C208

Table 3 Road and Bridge Projects

DCP PROJECT ID	PROJECT TITLE PROJECT DESCRIPTION	CHARGE AREAS CONTRIBUTING	PROJECT LENGTH	HECTARES CONTRIBUTING	INDICATIVE PROVISION TRIGGER
RD- 53 -01A	Thompsons Road (Berwick-Cranbourne Road to Smiths Lane) Purchase of land to widen road reserve from 20m wide to 41m wide (ultimate treatment) and upgrade of existing carriageway for 760m, excluding intersections (interim treatment). Purchase of 0.369ha land from Clyde North \$480,000 for the interim road alignment.	Residential & Employment	760	1,440.31	At time of subdivision
RD- 53 -01B	Thompsons Road (Berwick-Cranbourne Road to Smiths Lane) - Employment Purchase of land to widen road reserve from 20m wide to 41m wide (ultimate treatment) and upgrade of existing carriageway for 1100m, excluding intersections (interim treatment). The total cost includes \$2,576,700 apportioned from the Clyde North DCP	Residential & Employment	1100	1,440.31	At time of subdivision
RD- 53 -02	Tuckers Road (Hardys Road to Bells Road) Purchase of land to widen road reserve from 20m wide to 34m wide (ultimate treatment) and upgrade of existing carriageway for 540m, excluding intersections (interim treatment)	Residential & Employment	540	1,440.31	At time of subdivision
RD- 53 -03A	Bells Road (Hardys Road to Thompsons Road) Purchase of land to widen road reserve from 20m wide to 41m wide (ultimate treatment) and upgrade of existing carriageway for 630m, excluding intersections (interim treatment)	Residential & Employment	630	1,440.31	At time of subdivision
RD-54-01	Hardys Road (Berwick-Cranbourne Road Road to Bells Road) Purchase of land to widen road reserve from 20m wide to 34m wide (ultimate treatment) and upgrade of existing carriageway for 1520m, excluding intersections (interim treatment)	Residential & Employment	1520	1,440.31	At time of subdivision



DCP PROJECT ID	PROJECT TITLE PROJECT DESCRIPTION	CHARGE AREAS CONTRIBUTING	PROJECT LENGTH	HECTARES CONTRIBUTING	INDICATIVE PROVISION TRIGGER
RD-54-02	Pattersons Road (Berwick-Cranbourne Road to Bells Road/eastern boundary of PSP 1054) Purchase of land to widen road reserve from 20m wide to 41m wide (ultimate treatment) and upgrade of existing carriageway for 1900m, excluding intersections (interim treatment)	Residential & Employment	1900	1,440.31	At time of subdivision
RD-54-03	Tuckers Road (Ballarto Road to Hardys Road) Purchase of land to widen road reserve from 20m wide to 34m wide (ultimate treatment) and upgrade of existing carriageway for 1730m, excluding intersections (interim treatment)	Residential & Employment	1730	1,440.31	At time of subdivision
RD-54-04	"Bells Road (Pattersons Road to Hardys Road) Purchase of land to widen road reserve from 20m wide to 41m wide (ultimate treatment) from Hardys Road to Heather Grove. Upgrade of existing carriageway for 555m, excluding intersections (interim treatment). Purchase of land to create road reserve from 0m to 20m wide (interim treatment) to join the exisiting road reserve from Heather Grove to Pattersons Road within the Clyde DCP area. Upgrade of existing carriageway for 550m, excluding intersections (interim treatment).	Residential & Employment	1105	1,440.31	At time of subdivision
RD-54-05	Valetta Road (Clyde township) Upgrade of existing carriageway for 357m and ultimate treatment	Residential & Employment	357	1,440.31	At time of subdivision
RD-54-06	Oroya Road (Clyde township) Upgrade of existing carriageway for 497m and ultimate treatment	Residential & Employment	497	1,440.31	At time of subdivision
RD-54-07	Railway Road (Clyde township) Upgrade of existing carriageway for 975m and ultimate treatment	Residential & Employment	975	1,440.31	At time of subdivision
RD-57.1-01	Ballarto Road (Clyde-Five Ways Road to Casey Fields Boulevarde) Purchase of land to widen road reserve from 20m wide to 34m wide (ultimate treatment) and upgrade of existing carriageway for 1000m, excluding intersections (interim treatment)	Residential & Employment	1000	1,440.31	At time of subdivision
RD-57.1-02	Casey Fields Boulevard Purchase of land to widen road reserve from 0m wide to 32m wide (ultimate treatment) and upgrade of existing carriageway for 300m, excluding intersections (interim treatment)	Residential & Employment	300	1,440.31	At time of subdivision
BR-53-01	Thompson Road culvert over Ti Tree Creek Construction of the culvert from the current road reserve to the interim road alignment waterway crossings of Ti Tree Creek	Residential & Employment	0	1,440.31	At time of subdivision
BR-53-02	Thompson Road culvert over Ti Tree Creek Construction of the culvert from the current road reserve to the interim road alignment of Ti Tree Creek	Residential & Employment	0	1,440.31	At time of subdivision
BR-53-03	Bells Road culvert over Ti Tree Creek Construction of interim road alignment waterway of Ti Tree Creek	Residential & Employment	0	1,440.31	At time of subdivision



DCP PROJECT ID	PROJECT TITLE PROJECT DESCRIPTION	CHARGE AREAS CONTRIBUTING	HECTARES CONTRIBUTING	INDICATIVE PROVISION TRIGGER
BR-53-04	Thompson Road culvert over Ti Tree Creek Construction of the culvert from the current road reserve to the interim road alignment waterway crossings of Ti Tree Creek	Residential & Employment	1,440.31	At time of subdivision
BR-53-05	Tuckers Road over desalination easement Construction of interim road alignment bridge crossing of desalination easement	Residential & Employment	1,440.31	At time of subdivision
BR-53-06	Bells Road over desalination easement Construction of interim road alignment bridge crossing of desalination easement	Residential & Employment	1,440.31	At time of subdivision
BR-54-01	Hardys Road crossing of drainage area Construction of the culvert from the current road reserve to the interim road alignment waterway crossings	Residential & Employment	1,440.31	At time of subdivision
BR-54-04	Hardys Road crossing of drainage area Construction of the culvert from the current road reserve to the interim road alignment alignment waterway crossings	Residential & Employment	1,440.31	At time of subdivision
BR-54-05	Hardy Road crossing of drainage area Construction of the culvert from the current road reserve to the interim road alignment waterway crossings	Residential & Employment	1,440.31	At time of subdivision
BR-54-07	Tuckers Road crossing of drainage area Construction of the culvert from the current road reserve to the interim road alignment waterway crossings	Residential & Employment	1,440.31	At time of subdivision
BR-54-11	Pattersons Road culvert of drainage area Construction of the ultimate road alignment culvert crossings	Residential & Employment	1,440.31	At time of subdivision
BR-54-14	Tuckers Road crossing of drainage area Construction of the culvert from the current road reserve to the interim road alignment waterway crossings	Residential & Employment	1,440.31	At time of subdivision
BR-54-15	Bells Road crossing of drainage area over Clyde Creek Construction of the culvert from the current road reserve to the interim road alignment waterway crossings of Clyde Creek	Residential & Employment	1,440.31	At time of subdivision
BR-54-16	Tuckers Road crossing of drainage area Construction of the culvert from the current road reserve to the interim road alignment waterway crossings	Residential & Employment	1,440.31	At time of subdivision

Please note: Gaps in numbering are deliberate.



clyde development contributions plan plan 4_intersection projects

Amended by C208



The following intersections projects shown in Plan 4 are funded by the DCP:

Amended by C208

 Table 4
 Intersection Projects

DCP PROJECT ID	PROJECT TITLE PROJECT DESCRIPTION	CHARGE AREAS CONTRIBUTING	HECTARES CONTRIBUTING	INDICATIVE PROVISION TRIGGER
IN-53-01	Thompsons Road / Berwick-Cranbourne Road Purchase of land for intersection (ultimate treatment) and construction of arterial to arterial signalised 4-way intersection (interim treatment)	Residential & Employment	1,440.31	At time of subdivision
IN-53-02	Thompsons Road / north-south connector (West of Bells Road-West to Pound Road) Purchase of land for intersection(ultimate treatment) and construction of arterial to connector signalised 4-way intersection (interim treatment)	Residential & Employment	1,440.31	At time of subdivision
IN-53-03	Thompsons Road / north-south connector (West of Bells Road-East to old Pound road) Purchase of land for intersection (ultimate treatment) and construction of arterial to connector signalised 4-way intersection (interim treatment)	Residential & Employment	1,440.31	At time of subdivision
IN-53-04	Bells Road / Thompson Road Purchase of land for intersection (ultimate treatment) and construction of arterial to arterial signalised 4-way intersection (interim treatment)	Residential & Employment	1,440.31	At time of subdivision
IN-53-05	Thompsons Road / north-south connector (West of Bells Road-west) Purchase of land for intersection (ultimate treatment) and construction of arterial to connector signalised 4-way intersection (interim treatment)	Residential & Employment	1,440.31	At time of subdivision
IN-53-06	Thompsons Road / north-south connector (East of Bells Road-east) Purchase of land for intersection (ultimate treatment) and construction of arterial to connector signalised 4-way intersection (interim treatment)	Residential & Employment	1,440.31	At time of subdivision
IN-53-07	Berwick-Cranbourne Road / east-west industrial connector Purchase of land for intersection (ultimate treatment) and construction of arterial to connector signalised 4-way intersection (interim treatment)	Residential & Employment	1,440.31	At time of subdivision
IN-53-08	Bells Road / East-west connector Purchase of land for intersection (ultimate treatment) and construction of arterial to connector signalised 4-way intersection (interim treatment)	Residential & Employment	1,440.31	At time of subdivision
IN-53-09	Berwick-Cranbourne Road / East-west connector (North of Hardys Road) Purchase of land for intersection (ultimate treatment) and construction of arterial to connector signalised 4-way intersection (interim treatment)	Residential & Employment	1,440.31	At time of subdivision



DCP PROJECT ID	PROJECT TITLE PROJECT DESCRIPTION	CHARGE AREAS CONTRIBUTING	HECTARES CONTRIBUTING	INDICATIVE PROVISION TRIGGER
IN-53-10	Tuckers Road / east-west connector (east of Bells) Purchase of land for intersection (ultimate treatment) and construction of arterial to connector signalised 4-way intersection (interim treatment)	Residential & Employment	1,440.31	At time of subdivision
IN-53-11	Bells Road / Tuckers Road Purchase of land for intersection (ultimate treatment) and construction of arterial to arterial signalised 4-way intersection (interim treatment)	Residential & Employment	1,440.31	At time of subdivision
IN-53-12	Berwick-Cranbourne Road / Hardys Road Purchase of land for intersection (ultimate treatment) and construction of arterial to arterial signalised 4-way intersection (interim treatment)	Residential & Employment	1,440.31	At time of subdivision
IN-53-13	Hardys Road / North South connector (east of Berwick-Cranbourne Road) Purchase of land for intersection (ultimate treatment) and construction of arterial to connector signalised 4-way intersection (interim treatment)	Residential & Employment	1,440.31	At time of subdivision
IN-53-14	Hardys Road / Connector MTC Purchase of land for intersection (ultimate treatment) and construction of arterial to connector signalised 4-way intersection (interim treatment)	Residential & Employment	1,440.31	At time of subdivision
IN-53-15	Tuckers Road / Hardys Road Purchase of land for intersection (ultimate treatment) and construction of arterial to arterial signalised 4-way intersection (interim treatment)	Residential & Employment	1,440.31	At time of subdivision
IN-53-16	Hardys Road / north-south connector (West of Bells road-West) Purchase of land for intersection (ultimate treatment) and construction of arterial to connector signalised 4-way intersection (interim treatment)	Residential & Employment	1,440.31	At time of subdivision
IN-53-17	Bells Road / Hardys Road Purchase of land for intersection (ultimate treatment) and construction of arterial to arterial signalised 4-way intersection (interim treatment)	Residential & Employment	1,440.31	At time of subdivision
IN-53-18	Tuckers Road / North-South connector Purchase of land for intersection (ultimate treatment) and construction of arterial to connector signalised T intersection (interim treatment)	Residential & Employment	1,440.31	At time of subdivision
IN-54-01	Berwick-Cranbourne Road/ Heather Grove Purchase of land for intersection (ultimate treatment) and construction of arterial to connector signalised 4-way intersection (interim treatment)	Residential & Employment	1,440.31	At time of subdivision
IN-54-02	Tuckers Road / Heather Grove Purchase of land for intersection (ultimate treatment) and construction of arterial to connector signalised 4-way intersection (interim treatment)	Residential & Employment	1,440.31	At time of subdivision



DCP PROJECT ID	PROJECT TITLE PROJECT DESCRIPTION	CHARGE AREAS CONTRIBUTING	HECTARES CONTRIBUTING	INDICATIVE PROVISION TRIGGER
IN-54-03	Bells Road / Heather Grove Purchase of land for intersection (ultimate treatment) and construction of arterial to connector signalised 4-way intersection (interim treatment)	Residential & Employment	1,440.31	At time of subdivision
IN-54-04	Berwick-Cranbourne Road / Pattersons Road Purchase of land for intersection (ultimate treatment) and construction of arterial to arterial signalised 4-way intersection (interim treatment)	Residential & Employment	1,440.31	At time of subdivision
IN-54-05	Pattersons Road / North-south connector Purchase of land for intersection (ultimate treatment) and construction of arterial to arterial signalised 4-way intersection (interim treatment)	Residential & Employment	1,440.31	At time of subdivision
IN-54-06	Tuckers Road / Patterson Road Purchase of land for intersection (ultimate treatment) and construction of arterial to arterial signalised 4-way intersection (interim treatment)	Residential & Employment	1,440.31	At time of subdivision
IN-54-07	Patterson Road / North-south (East of Tuckers Road) Purchase of land for intersection (ultimate treatment) and construction of arterial to arterial signalised 4-way intersection (interim treatment)	Residential & Employment	1,440.31	At time of subdivision
IN-54-08	Patterson Road / Bells Road Purchase of land for half of the intersection (ultimate treatment)	Residential & Employment	1,440.31	At time of subdivision
IN-54-09	Berwick-Cranbourne Road / East-west (south of Pattersons Road) Purchase of land for intersection (ultimate treatment) and construction of arterial to connector signalised 4-way intersection (interim treatment)	Residential & Employment	1,440.31	At time of subdivision
IN-54-11	Tuckers Road / South connector (active open space AR-54-04) Purchase of land for intersection (ultimate treatment) and construction of arterial to connector signalised 4-way intersection (interim treatment)	Residential & Employment	1,440.31	At time of subdivision
IN-54-12	Bells Road / South connector Purchase of land for half of the intersection (ultimate treatment) and construction of arterial to connector signalised 4-way intersection (interim treatment)	Residential & Employment	1,440.31	At time of subdivision
IN-54-13	Tuckers Road / South connector (MTC) Purchase of land for intersection (ultimate treatment) and construction of arterial to connector signalised 4-way intersection (interim treatment)	Residential & Employment	1,440.31	At time of subdivision



DCP PROJECT ID	PROJECT TITLE PROJECT DESCRIPTION	CHARGE AREAS CONTRIBUTING	HECTARES CONTRIBUTING	INDICATIVE PROVISION TRIGGER
IN-54-14	Tuckers Road / South connector (Ballarto road MTC main street) Purchase of land for intersection (ultimate treatment) and construction of arterial to connector signalised 4-way intersection (interim treatment)	Residential & Employment	1,440.31	At time of subdivision
IN-54-15	Berwick-Cranbourne Road / Ballarto Road Purchase of land for intersection (ultimate treatment) and construction of arterial to arterial signalised 4-way intersection (interim treatment)	Residential & Employment	1,440.31	At time of subdivision
IN-54-17	Ballarto Road / MTC connector Purchase of land for half of the intersection (ultimate treatment)	Residential & Employment	1,440.31	At time of subdivision
IN-54-18	Tuckers Road / Ballarto Road Purchase of land for half of the intersection (ultimate treatment)	Residential & Employment	1,440.31	At time of subdivision
IN-54-19	Ballarto Road / Connector East Purchase of land for half of the intersection (ultimate treatment)	Residential & Employment	1,440.31	At time of subdivision
IN-54-20	Bells Road / Ballarto Road Purchase of land for quarter of the intersection (ultimate treatment) and construction of arterial to arterial signalised 4-way intersection (interim treatment)	Residential & Employment	1,440.31	At time of subdivision
IN-57.1-1	Berwick-Cranbourne Road / East-west connector Purchase of land for intersection (ultimate treatment) and construction of arterial to connector signalised T-intersection (interim treatment)	Residential & Employment	1,440.31	At time of subdivision
IN-57.1-2	Ballarto Road / North-south connector Purchase of land for half of the intersection (ultimate treatment)) and construction of arterial to connector signalised 4-way intersection (interim treatment)	Residential & Employment	1,440.31	At time of subdivision
IN-57.1-3	Casey fields / East-south connector Purchase of land for roundabout (ultimate treatment) and construction of arterial to connector roundabout (ultimate treatment)	Residential & Employment	1,440.31	At time of subdivision
IN-57.1-4	Casey fields BLVD / Ballarto Road Purchase of land for half of the intersection (ultimate treatment) and construction of arterial to connector signalised 4-way intersection (interim treatment)	Residential & Employment	1,440.31	At time of subdivision

Please note: Gaps in numbering are deliberate.



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2.2.2 Recreation facility projects

The recreation contributions include:

- Provision of land for local sports reserves and indoor recreation.
- Contribution towards construction of sports facilities and landscaping in open space reserves.
- Contribution towards construction of pavilions for future sports fields.

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The DCP provides a contribution for the purchase of land equivalent to 5.77% of Residential Net Developable Area (NDAR) which equates to approximately 77.53 hectares across the three precincts.

The total land contribution compromises eight (8) individual reserves (three in PSP 1053, four in PSP 1054, and one in PSP 1057.1).

The DCP provides for the basic construction, surfacing, and landscaping of facilities for local sports reserves.

The detailed design and scope (as defined in Table 6) of each of the following community projects will be reviewed by the Development Agency closer to the time that they are constructed.

In reviewing the scope of the facility, the Development Agency will have regard to matters such as changing provision standards and models, the immediate needs of the community, current regulations and best practice and may adjust and refine the scope of the facility to respond to these matters.

The Development Agency may also adjust and refine the scope of the facility to reflect the capacity of any non-DCP funds that can be made available (for example from a grant or some other funding stream).

In adjusting and refining any final project scope the Development Agency will ensure that at least the same total cost of the project item (as indexed from time to time) is invested into the community facilities proposed.

The following recreation projects shown in Plan 5 are funded by the DCP:

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Amended Table 5 Local Sports Field Projects

DCP PROJECT ID	PROJECT TITLE PROJECT DESCRIPTION	CHARGE AREAS CONTRIBUTING	HECTARES CONTRIBUTING	INDICATIVE PROVISION TRIGGER
LS-53-01	Local sports reserve Purchase of land equivalent to 5.77% of total RNDA and 2 x cricket ovals (3 soccer fields overlaid) and basic landscaping.	Residential	1,344.72	At time of subdivision
LS-53-02	Local sports reserve Purchase of land equivalent to 5.77% of total RNDA and 4 netball, 6 tennis courts, lawn bowls and basic landscaping.	Residential	1,344.72	At time of subdivision
LS-53-03	Local sports reserve Purchase of land equivalent to 5.77% of total RNDA and 3 football ovals / cricket, 2 netball courts lawn bowls and basic landscaping.	Residential	1,344.72	At time of subdivision
LS-54-01	Local sports reserve Purchase of land equivalent to 5.77% of total RNDA and standard per-hectare rate for construction of 2 cricket ovals (3 soccer fields overlaid) and basic landscaping.	Residential	1,344.72	At time of subdivision
LS-54-02	Local sports reserve Purchase of land equivalent to 5.77% of total RNDA and standard per-hectare rate for construction of 3 football ovals / cricket, 2 netball courts and basic landscaping.	Residential	1,344.72	At time of subdivision
LS-54-03	Local sports reserve Purchase of land equivalent to 5.77% of total RNDA and 2 new + football ovals/cricket + netball. To create 3 football/cricket + 2 netball and basic landscaping.	Residential	1,344.72	At time of subdivision



	DCP PROJECT ID	PROJECT TITLE PROJECT DESCRIPTION	CHARGE AREAS CONTRIBUTING	HECTARES CONTRIBUTING	INDICATIVE PROVISION TRIGGER
	LS-54-04	Local sports reserve Purchase of land equivalent to 5.77% of total RNDA and 2 x cricket ovals (3 soccer fields overlaid) and basic landscaping.	Residential	1,344.72	At time of subdivision
	LS-54-05	Local sports reserve Purchase of land equivalent to 5.77% of total RNDA and 2 x football / cricket 2 netball and basic landscaping.	Residential	1,344.72	At time of subdivision
	P-53-01	Pavilions within active reserves Construction of sporting cricket / soccer pavilion	Residential	1,344.72	At time of subdivision
	P-53-02	Pavilions within active reserves Construction of sporting tennis pavilion	Residential	1,344.72	At time of subdivision
	P-53-03	Pavilions within active reserves Construction of sporting football /cricket / netball pavilion	Residential	1,344.72	At time of subdivision
	P-54-01	Pavilions within active reserves Construction of sporting cricket / soccer pavilion	Residential	1,344.72	At time of subdivision
	P-54-02	Pavilions within active reserves Construction of sporting football /cricket / netball pavilion	Residential	1,344.72	At time of subdivision
	P-54-03	Pavilions within active reserves Construction of sporting football /cricket / netball pavilion	Residential	1,344.72	At time of subdivision
	P-54-04	Pavilions within active reserves Construction of sporting cricket / soccer pavilion	Residential	1,344.72	At time of subdivision
	P-54-05	Pavilions within active reserves Construction of sporting cricket / football pavilion	Residential	1,344.72	At time of subdivision
d by C208	IR - 53	Indoor sports contribution Purchase of land for one indoor sports facilities.	Residential	1,344.72	At time of subdivision
d by C208	IR - 54	Indoor sports contribution Purchase of land for one indoor sports facilities.	Residential	1,344.72	At time of subdivision

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2.2.3 Community facility projects

The community projects include:

- Land and construction of Level 1 community centres incorporating a triple kindergarten throughout the PSPs.
- Land for Level 3 community centres

The community projects are based on the projections determined through the sub-corridor planning process, consistent with the range of facilities and provision ratio set out in research undertaken by the Metropolitan Planning Authority and City of Casey. The community facilities defined in these projects are the best estimates of the future requirements and specifications of the future Clyde community.

The detailed design and scope (as defined in Table 6) of each of the following community projects will be reviewed by the Development Agency closer to the time that they are constructed.

In reviewing the scope of the facility, the Development Agency will have regard to matters such as changing provision standards and models, the immediate needs of the community, current regulations and best practice and may adjust and refine the scope of the facility to respond to these matters.

The Development Agency may also adjust and refine the scope of the facility to reflect the capacity of any non-DCP funds that can be made available (for example from a grant or some other funding stream).

In adjusting and refining any final project scope the Development Agency will ensure that at least the same total cost of the project item (as indexed from time to time) is invested into the community facilities proposed.

The following community projects shown in Plan 6 are funded by the DCP:

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Table 6 Community Facilities Projects

DCP PROJECT ID	PROJECT TITLE PROJECT DESCRIPTION	CHARGE AREAS CONTRIBUTING	HECTARES CONTRIBUTING	INDICATIVE PROVISION TRIGGER
CO-53-01	Family and Children's Centre (Level 1) Purchase of 0.7ha land for community centre and construction of two kindergarten rooms and maternal child health care rooms attached to a government primary school	Residential	1,344.72	At time of subdivision
CO-53-02	Level 3 Community Facilities - Branch Library & Community Centre Purchase of 1.51ha land for community centre	Residential	1,344.72	At time of subdivision
CO-53-03	Community Care Hub / Host Home Purchase of 0.2ha land for community centre	Residential	1,344.72	At time of subdivision
CO-53-04	Family and Children's Centre (Level 1) Purchase of 0.7ha land for community centre and construction of two kindergarten rooms and maternal child health care rooms attached to a government primary school	Residential	1,344.72	At time of subdivision
CO-53-05	Level 3 Community Facilities - Branch Library & Community Centre Construction of community centre with branch library	Residential	1,344.72	At time of subdivision
CO-54-01	Family and Children's Centre (Level 1) Purchase of 0.7ha land for community centre and construction of two kindergarten rooms and maternal child health care rooms attached to a government primary school	Residential	1,344.72	At time of subdivision
CO-54-02	Family and Children's Centre (Level 1) Purchase of 0.7ha land for community centre and construction of two kindergarten rooms and maternal child health care rooms attached to a government primary school	Residential	1,344.72	At time of subdivision



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DCP PROJECT ID	PROJECT TITLE PROJECT DESCRIPTION	CHARGE AREAS CONTRIBUTING	HECTARES CONTRIBUTING	INDICATIVE PROVISION TRIGGER
CO-54-03	Family and Children's Centre (Level 1) Purchase of 0.7ha land for community centre and construction of two kindergarten rooms and maternal child health care rooms attached to a government primary school	Residential	1,344.72	At time of subdivision
CO-54-04	Family and Children's Centre (Level 1) Purchase of 0.7ha land for community centre and construction of two kindergarten rooms and maternal child health care rooms attached to a government primary school	Residential	1,344.72	At time of subdivision
CO-54-05	Level 3 Community Facilities - Specialist Community Centre Purchase of 1.5a land for community centre	Residential	1,344.72	At time of subdivision
CO-54-06	Family and Children's Centre (Level 1) Purchase of 0.7ha land for community centre and construction of two kindergarten rooms and maternal child health care rooms attached to a government primary school	Residential	1,344.72	At time of subdivision
CO-54-07	Level 3 Community Facilities - Branch Library & Community Centre Construction of community centre with branch library	Residential	1,344.72	At time of subdivision



2.3 Project Timing

Each item in the DCP has an assumed indicative provision trigger specified in tables 3 to 6. The timing of the provision of the items is consistent with information available at the time that the DCP was prepared. The Council, as Development Agency, will monitor and assess the required timing for individual items and have regard to its capital works program, the staging of the PSPs and areas external to the DCP Area.

The Collecting Agency may consider alternatives to the priority delivery of works or land where:

- Infrastructure is to be constructed / provided by development proponents as works or land in kind, as agreed
 by the Collecting Agency.
- Network priorities require the delivery of works or land to facilitate broader road network connections.
- · Community needs determine the delivery of works or land for community facilities or active open space.

All items in this DCP will be provided as soon as is practicable and as soon as sufficient contributions are available, consistent with Section 4.1 and acknowledging the Development Agency's capacities to provide the balance of funds not recovered by this DCP.

All items included in the DCP will be provided within 30 years from the date upon which this DCP was first incorporated in to the Casey Planning Scheme.



2.4 Distinction between Development and Community Infrastructure

In accordance with the *Planning and Environment Act 1987* and the Ministerial Direction on Development Contributions, the DCP makes a distinction between 'development' and 'community' infrastructure.

The timing of payment of contributions is linked to the type of infrastructure in question.

The community infrastructure levy contributions are made by the home builder at the time of building approval (unless an alternative time is agreed between the collecting agency and a development proponent). Community infrastructure levy contributions will be paid for at a 'per-dwelling' rate. The *Planning and Environment Act 1987* currently stipulates that the amount that may be contributed under a community infrastructure levy is no more than \$900 per dwelling. The Governor in Council may from time to time by Order published in the Government Gazette vary the maximum amount that may be collected by the Community Infrastructure Levy. If in the future the Community Infrastructure Levy is amended, then the levy applicable to the release of the remaining dwellings may be adjusted in accordance with the revised legislative and regulatory approach as directed by the Minister for Planning.

The projects listed in Table 7 are deemed to be community infrastructure levy projects.

All other infrastructure projects are considered to be development infrastructure projects.

Contributions relating to development infrastructure are to be made by developers at the time of subdivision. If subdivision is not applicable payments must be made prior to construction works.

 Table 7
 Community Infrastructure

DCP PROJECT ID	PROJECT TITLE PROJECT DESCRIPTION
P-53-01	Pavilions within active reserves Construction of sporting cricket / soccer pavilion
P-53-02	Pavilions within active reserves Construction of sporting tennis pavilion
P-53-03	Pavilions within active reserves Construction of sporting football /cricket / netball pavilion
P-54-01	Pavilions within active reserves Construction of sporting cricket / soccer pavilion
P-54-02	Pavilions within active reserves Construction of sporting football /cricket / netball pavilion
P-54-03	Pavilions within active reserves Construction of sporting football /cricket / netball pavilion
P-54-04	Pavilions within active reserves Construction of sporting cricket / soccer pavilion
P-54-05	Pavilions within active reserves Construction of sporting cricket / football pavilion
CO-53-05	Construction of community centre with branch library.
CO-54-07	Construction of community centre with branch library.



3.0 CALCULATION OF CONTRIBUTIONS

The general cost apportionment method includes the following steps:

- Calculation of the Net Developable Area ('NDA') and demand units (refer Table 8).
- Calculation of project costs (refer Tables 10 and 11).
- Identification and allowance for external apportionment (refer Table 12).
- Cost apportionment and catchments (refer Table 1).
- Identification of development types required to pay the levy (refer Table 2).
- Calculation of costs payable for each infrastructure project (refer Tables 10 and 11).
- The development infrastructure charge per hectare for each development type and the community infrastructure levy per dwelling (refer Table 14).

3.1 Calculation of Net Developable Area and Demand Units

The following section sets out how NDA is calculated and outlines the development projections anticipated for the area. Calculations of NDA for each individual property is outlined in the property-specific land budget included within the relevant PSP.

3.1.1 Net Developable Area

In this DCP, all development infrastructure contributions are payable on the net developable area of land on any given development site.

For the purposes of this DCP the NDA is defined as the total amount of land within the precinct that is made available for development of housing and employment buildings, including lots, all connector and local streets. It is the total precinct area minus community facilities, educational facilities, open space, encumbered land and arterial roads. Any additional small local parks defined at the subdivision stage are included in the NDA.

The NDA for the DCP has been calculated in Table 8 to ensure the levies are properly apportioned.

Further to assist with the property project apportionment, NDA levies being further broken down as Net Developable Area Employment (NDA-E) and Net Developable Area Residential (NDA-R). NDA-E and NDA-R added together equal the total NDA.



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 Table 8
 Summary Land Use Budget

DESCRIPTION	PSP 105	53 THOMSPONS	ROAD	PSP	1054 CLYDE CRI	EEK	PSP 1057	'.1 CASEY FIELD: RESIDENTIAL	S SOUTH -	TOTALS 1053, 1054, 1057.1		
DESCRIPTION	HECTARES	% OF TOTAL PRECINCT	% OF NDA	HECTARES	% OF TOTAL PRECINCT	% OF NDA	HECTARES	% OF TOTAL PRECINCT	% OF NDA	HECTARES	% OF TOTAL PRECINCT	% OF NDA
TOTAL PRECINCT AREA (ha)	695.33			1,153.90			110.06			1,959.29		
TRANSPORT												
PAO	3.59	0.52%	0.72%	6.39	0.55%	0.75%	0.00	0.00%	0.00%	9.98	0.51%	0.69%
DCP Arterial Roads / Widening	19.38	2.79%	3.89%	22.03	1.91%	2.59%	1.96	1.78%	2.14%	43.38	2.21%	3.01%
DCP Flaring for intersections	4.66	0.67%	0.93%	3.86	0.33%	0.45%	0.39	0.35%	0.43%	8.91	0.45%	0.62%
Existing Road Reserves	12.16	1.75%	2.44%	32.81	2.84%	3.86%	0.00	0.00%	0.00%	44.97	2.30%	3.12%
Tree Reserve	1.76	0.25%	0.35%	0.66	0.06%	0.08%	0.00	0.00%	0.00%	2.42	0.12%	0.17%
Railway Corridor / Easement	0.00	0.00%	0.00%	5.76	0.50%	0.68%	0.89	0.81%	0.97%	6.65	0.34%	0.46%
Sub-total Transport	41.55	5.98%	8.34%	71.51	6.2%	8.41%	3.24	2.9%	3.54%	116.30	5.94%	8.07%
COMMUNITY & EDUCATION												
DCP Community facilities	3.14	0.45%	0.63%	4.99	0.43%	0.59%	0.00	0.00%	0.00%	8.13	0.42%	0.56%
DCP Indoor Recreation facilities	1.60	0.23%	0.32%	6.06	0.53%	0.71%	0.00	0.00%	0.00%	7.66	0.39%	0.53%
Potential Government Education	7.02	1.01%	1.41%	30.76	2.67%	3.62%	0.00	0.00%	0.00%	37.78	1.93%	2.62%
Existing Government Education	0.00	0.00%	0.00%	1.80	0.16%	0.21%	0.00	0.00%	0.00%	1.80	0.09%	0.12%
Non-Government Education	0.00	0.00%	0.00%	3.50	0.30%	0.41%	0.00	0.00%	0.00%	3.50	0.18%	0.24%
Sub-total Education	11.76	1.69%	2.36%	47.12	4.08%	5.54%	0.00	0.00%	0.00%	58.87	3.00%	4.09%
OPEN SPACE												
SERVICE OPEN SPACE												
Power / Gas Easement	55.85	8.03%	11.21%	0.00	0.00%	0.00%	0.00	0.00%	0.00%	55.85	2.85%	3.88%
Waterway Corridor/Wetland / Retarding	35.25	5.07%	7.08%	62.45	5.41%	7.34%	4.60	4.18%	5.02%	102.30	5.22%	7.10%
Desalination Pipe Easement (+ gap between easement and road)	7.02	1.01%	1.41%	0.00	0.00%	0.00%	0.00	0.00%	0.00%	7.02	0.36%	0.49%
Heritage (Post Contract)	0.00	0.00%	0.00%	4.89	0.42%	0.57%	0.00	0.00%	0.00%	4.89	0.25%	0.34%
Heritage (Aboriginal)	0.00	0.00%	0.00%	0.00	0.00%	0.00%	0.00	0.00%	0.00%	0.00	0.00%	0.00%
Conservation (EPBC Category 1)	0.00	0.00%	0.00%	22.16	1.92%	2.60%	0.00	0.00%	0.00%	22.16	1.13%	1.54%
Sub-total Service Open Space	98.13	14.11%	19.70%	89.49	7.76%	10.52%	4.60	4.18%	5.02%	192.21	9.81%	13.35%
CREDITED OPEN SPACE												
Local Sportsfields	25.93	3.73%	5.21%	51.60	4.47%	6.07%	0.00	0.00%	0.00%	77.53	3.96%	5.38%
Local parks -Residental	17.10	2.46%	3.43%	33.91	2.94%	3.99%	3.67	0.32%	4.01%	54.67	2.79%	3.80%
Local parks - Employment	1.77	0.25%	0.36%	0.00	0.00%	0.00%	0.00	0.00%	0.00%	1.77	0.09%	0.12%
Sub-total Credited Open Space	44.80	6.44%	8.99%	85.50	7.41%	10.05%	3.67	3.33%	4.01%	133.97	6.84%	9.30%
OTHER OPEN SPACE												
Existing Local Sportfields	0.00	0.00%	0.00%	3.26	0.28%	0.38%	0.00	0.00%	0.00%	3.26	0.20%	0.23%
Regional Sportsfields	0.00	0.00%	0.00%	0.00	0.00%	0.00%	7.04	6.40%	7.69%	7.04	0.40%	0.49%
Sub-total Other Open Space	0.00	0.00%	0.00%	3.26	0.28%	0.38%	7.04	6.40%	7.69%	10.30	0.53%	0.72%
Total All Open Space	142.92	20.6%	28.69%	178.25	15.45%	20.96%	15.30	13.90%	16.72%	336.48	17.2%	23.36%



DECEDITION	PSP 1053 THOMSPONS ROAD			PSP 1054 CLYDE CREEK			PSP 1057.1 CASEY FIELDS SOUTH - RESIDENTIAL			TOTALS 1053, 1054, 1057.1		
DESCRIPTION	HECTARES	% OF TOTAL PRECINCT	% OF NDA	HECTARES	% OF TOTAL PRECINCT	% OF NDA	HECTARES	% OF TOTAL PRECINCT	% OF NDA	HECTARES	% OF TOTAL PRECINCT	% OF NDA
OTHER												
Existing Clyde Township RZ1 Area	0.00	0.00%	0.00%	6.38	0.55%	0.75%	0.00	0.00%	0.00%	6.38	0.33%	0.44%
Substation	0.95	0.14%	0.19%	0.00	0.00%	0.00%	0.00	0.00%	0.00%	0.95	0.05%	0.07%
Sub-total Sub-total	0.95	0.14%	0.19%	6.38	0.55%	0.75%	0.00	0.00%	0.00%	7.32	0.00	0.01
NET DEVELOPABLE AREA (NDA) Ha	498.15	71.64%		850.65	73.72%		91.52	83.15%		1,440.31	73.51%	
NET DEVELOPABLE AREA - RESIDENTIAL (NDA-R) Ha	402.56	57.89%		850.65	73.72%		91.52	83.15%		1,344.72	68.63%	
NET DEVELOPABLE AREA - EMPLOYMENT (NDA-E) Ha	95.60	13.75%		0.00	0.00%		0.00	0.00%		95.60	4.88%	

DESCRIPTION	PSP 1053 THOMSPONS ROAD		PSP 1054 C	LYDE CREEK	PSP 1057.1 CASE RESIDI		TOTALS 1053, 1054, 1057.1		
RESIDENTIAL LOCAL OPEN SPACE (EXPRESSED AS % OF NDAR)	HECTARES	% OF NDAR	HECTARES	% OF NDAR	HECTARES	% OF NDAR	HECTARES	% OF NDAR	
DCP Sportfields *	25.93	6.44%	51.60	6.07%	0.00	0.00%	77.53	5.77%	
Local parks - Residental	17.10	4.25%	33.91	3.99%	3.67	4.01%	54.67	4.07%	
Sub-total	43.03	10.69%	85.50	10.05%	3.67	4.01%	132.20	9.83%	
EMPLOYMENT LOCAL OPEN SPACE (EXPRESSED AS % OF NDAE)	HECTARES	% OF NDAE	HECTARES	% OF NDAE	HECTARES	% OF NDAE	HECTARES	% OF NDAE	
Sub-Total Sub-Total	1.77	1.85%	0.00	0.00%	0.00	0.00%	1.77	1.85%	
TOTAL OPEN SPACE	44.80	12.54%	85.50	10.05%	3.67	4.01%	133.97		

DESCRIPTION	PSP 1053 THOMSPONS ROAD PSI			1054 CLYDE CF	REEK	PSP 1057.1 CASEY FIELDS SOUTH - RESIDENTIAL			TOTALS 1053, 1054, 1057.1			
RESIDENTIAL	NDA (Ha)	DWELL / NDHa	DWELLINGS	NDA (Ha)	DWELL / NDHa	DWELLINGS	NDA (Ha)	DWELL / NDHa	DWELLINGS	NDA (Ha)	DWELL / NDHa	DWELLINGS
TOTALS RESIDENTIAL YIELD AGAINST NDA	402.56	16	6,441	850.65	16	13,610	91.52	16	1,464	1,344.72	16	21,516
ANTICIPATED POPULATION @ 2.8 PERSONS PER DWELLING			18,035			38,109			4,100			60,243

^{*} Note: When the area of the existing local sports field (3.26Ha) in the PSP1045 is added to the 77.53Ha for sports fields delivered by the DCP, the total amount of local sports field provision equals 6% of NDA-R.



3.1.2 Land Budget and Demand Units

Net developable hectare is the demand unit for this DCP.

Based on the Clyde PSPs, there is one development type included in this DCP: Urban Development. Urban Development is defined broadly to include all forms of development, including residential subdivision, development within the local town centres, convenience centres and employment areas. Urban Development also includes any non-residential uses within the residential area such as a place of worship, education centre, retirement village, nursing home, child care centre, medical centre or convenience store or any other approved use. There is a total of 1440.31 Net Developable Hectares in the DCP area.

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> It is important to note that the number of Net Developable Hectares (that is the demand units) in each charge area is based on the land budgets in Table 8.

> The 'per Net Developable Hectare' contributions will not and must not be amended to respond to minor changes to land budgets that may result from the subdivision process. In other words, the DCP is permanently linked to the calculation of Net Developable Area set out in the detailed land budget in Table 8.

> For the purposes of the DCP, the number of developable hectares will only change if the Collecting Agency agrees to a variation to the Precinct and detailed land budget and associated tables.

3.1.3 Property Specific Calculations

The NDA in the summary land use budget (Table 8) used to calculate the contributions within the DCP has been based on an assessment of land use within individual properties. The property specific land budget included within each PSP should be used to determine the number of developable hectares (for DCP purposes) on individual parcels.

The property specific NDA and rates listed in this DCP determine the total contribution for each property.

3.1.4 Public Open Space Contributions

Amended Overall public open space for residential areas NDA-R is 9.83%, comprised of 5.77% as sporting fields and 4.07% NDA-R. Employment areas comprise 1.85% for local parks.

This DCP funds the acquisition of land for local sports fields of NDA-E and contributes towards the construction of sporting surfaces. Local parks are provided through Clause 52.01 of the Scheme and no contribution for local parks is included in this DCP.

Works that a landowner must undertake prior to the handover of land to Council (as specified in the relevant PSP) can be considered to be eligible for a partial works in kind credit as per Section 5.3.3 where these works are not considered to be temporary works.

Calculations of Contributions Charges

3.2.1 Calculation of Costs

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Each project has been assigned a land and / or construction cost. These costs are listed in Table 10. The costs are expressed in September 2015 dollars and will be indexed in accordance with the indexation method specified in Section 4.3.

3.2.2 Road Construction and Intersection Works

Cardno Victoria have prepared the estimated costs for the transport projects within the DCP. The scope for intersection projects was established collaboratively with Vic Roads and the City of Casey in consideration of traffic advice provided by Aecom and Cardno Victoria.

Road construction and intersection costs were derived from concept functional designs which were overlaid onto topographical data and existing conditions in an AutoCAD system. This enables the provision of accurate and detailed component costing as shown on the data sheets in Section 7.0. A number of standardised intersections were developed in collaboration with the GAA, VicRoads and Council to be used in this DCP.

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Rates for the works have been established by using current road construction estimation rates as of April and August 2015.



The intersection layout was agreed with the relevant road authority as were the scope of works. The general assumptions used were:

- No land acquisition costs have been allowed for unless stated (these are separately identified in each DCP project costing in Table 10).
- No trunk services have been allowed for.
- Drainage allowance is for 'road reserve or project land' areas i.e. no external catchments. However, major drainage such as culverts or bridges consistent with the Clyde PSPs have been included as separate projects.
- A standard excavation depth has been allowed for. Final pavement requirements will be determined at construction stage responding to actual ground conditions.
- Where required an allowance has been made for existing services adjustment or relocation (e.g. electricity poles, water fittings, manholes etc)

Additional percentage based costs tailored to each individual project have been included for:

- Traffic management.
- · Field survey and detail design fees.
- Construction overheads and supervision.
- Contingency.

The level of contingency for each project reflects the level of design resolution achieved at the time the DCP was prepared. The costs are fully detailed including, for example, street trees, road line marking, footpaths and street lighting.

With respect to road / intersection construction along existing road alignments:

- Most difficulties along the alignment will have been dealt with or built around due to the existing road, therefore upgrading of the pavement will have no effect or only a minor effect on in-ground or underground assets.
- Higher levels of traffic management and service relocation have been allowed for.

With respect to road / intersection construction for green field alignments:

- Design generally follows natural terrain.
- Existing service alterations have been included and would be minimal.
- Major cost items such as Melbourne Water drainage culverts have been allowed for as separate items.

With respect to road / intersection construction along the existing alignment of Thompsons Road:

• The DCP will provide for the first carriageway to be delivered; the Clyde North DCP will contribute funding equivalent to a rural seal of Thompsons Road from Berwick-Cranbourne Road to Pound Road.

Where possible, arterial road works as funded by this DCP have been designed to minimise any redundant works that are required in the ultimate delivery of future arterial roads.

3.2.3 Culvert works

Where there is a road crossing of a natural waterway the cost estimated for the culverts required has been prepared on a site by site basis.

3.2.4 Recreation works

Recreation cost estimates have been prepared on a per reserve basis. The per hectare rate has been derived from an analysis of previous recreation project cost estimates. The use of a per hectare rate allows Council a greater degree of flexibility to meet the needs of the future community.

3.2.5 Community Centre Projects

The concept and costing for level 1 facilities is based on cost estimates previously prepared by PQS for the DCP's in the Casey sub-corridor and applied to the Clyde DCP. Costing allowance for level 3 facilities is based on a level 1 cost and additional library cost from Wyndham West DCP.



3.2.6 Interim and Temporary works

Interim works are not (except in the case of interim and temporary community facility projects as identified in Table 9) allowed as costs against this DCP unless expressly listed in the DCP, and nor will temporary works unless to the satisfaction of the responsible authority.

3.2.7 Interim and temporary community facility projects

This DCP allows the Development Agency to meet the immediate needs of the community in advance of the delivery of the permanent community facility projects identified in this DCP by allowing the provision of listed interim and temporary works as costs against the DCP.

No additional allowance for the cost of these interim and temporary works has been made in the DCP.

Where possible, any required/planned interim and temporary works should constitute part of the design of a permanent community facility project funded by the DCP and reduce the cost to complete that design, or be reimbursable when the interim and temporary works are no longer required.

Where the provision of interim and temporary works does not reduce the cost of delivering a permanent community facility project funded by the DCP, non DCP funds (for example from the sale of a temporary asset, augmented from Council funds, a grant or some other funding stream) will be invested into the permanent project to ensure that at least the same total cost of the project item (as indexed from time to time) is invested into the project.

The Development Agency must ensure that the provision of interim and temporary works as costs against the DCP does not undermine the Development Agency's ability to provide the permanent community facility projects identified in this DCP as soon as is practicable.

The following interim and temporary works may be allowed with approval of the development agency as costs against this DCP:

Table 9 Interim and temporary community facility projects

PROJECT TITLE – INTERIM FACILITIES	PROJECT DESCRIPTION — INTERIM FACILITIES	INDICATIVE LIFESPAN FROM CONSTRUCTION
Community meeting space	Relocatable building or convertible building on Council or private land	5 years
Early childhood facility	Mobile maternal and child health service	5 years
Playgroup space	Fit out of future school classroom to enable use as a playgroup space	5 years
Community support facility	Building fit out to provide office space and consulting rooms for community support services	5 years

3.2.8 Valuation of Land

Land required for projects identified in this DCP has had an estimate of value prepared by Charter Keck Cramer using the 'Public Land Equalisation Method' or PLEM.

Under this methodology the average land obligation for DCP land projects in each PSP has been calculated as a percentage of Net Developable Area. For the Clyde DCP, this results in an obligation as follows:

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- PSP 53 11.38% / NDA-R (residential)
- PSP 53 9.32% / NDA-E (employment)
- PSP 54 10.41% / NDA
- PSP 57.1 2.6% / NDA



The land obligation for each property has been calculated against the PSP average as identified above. Obligations up to and including the average have an estimate of value on a per property broad hectare basis. Obligations above the average have an estimate of value on a site specific basis.

For the land obligation by each property that is 'under' and / or 'over' the average, refer to Table 13.

3.2.9 Concept designs and cost sheets

Concept designs and cost sheets have been prepared for each project. This information is included in the Appendices.



3.3 Cost Apportionment

The DCP apportions a charge to new development according to its expected use of identified infrastructure items. Since development contribution charges are levied 'up-front', a measure of actual use by individual development sites is not possible. Therefore costs must be shared in accordance with the estimated share of use.

This DCP calculates what each development type (residential, industrial or commercial) should pay towards provision of the identified infrastructure items. This is the total cost of the item (after deducting other funding sources and making allowance for any external demand) divided by total demand units of the development type.

To support this approach, a charge area has been determined for each item.

The balance of the cost of the items not recovered under this DCP will be funded from alternative sources.

3.3.1 Charge Areas

The DCP contains two charge areas. Charge Area 1 applies to land where residential development is to be located under the future urban structure (refer Plan 2). This includes the Local Town Centres, Convenience Centres, Major Town Centres, Mixed Use and Active Mixed Use.

Charge Area 2 applies to land designated for dedicated employment land - commercial use (outside town centres) and industrial use.

The variation between the residential and employment (industrial and commercial) charge area rates reflects the fact that employment land does not contribute towards community and local sports field items.

For each infrastructure project, the charge area that is to make the contribution is specified (refer Table 9).

3.3.2 Potential Non-Government Schools

The development of land for a potential non government school is exempt from the requirement to pay a development infrastructure levy and a community infrastructure levy under this Development Contribution Plan.

3.3.3 Schedule of Costs

Table 10 calculates the amount of contributions payable by each charge area for each infrastructure category.

3.3.4 Summary of Charges per Hectare

Table 10 shows the quantum of funds to be contributed by each charge area towards each infrastructure project. This adds up to the total amount of funds recoverable under the DCP.

Table 10 sets out a summary of costs for each charge area.

Table 1 provides a snapshot of the key costs and charges.



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 Table 10
 Infrastructure Project Timing and Calculation of Costs - Development Infrastructure Levy

DCP PROJECT NO.	PROJECT	INFRASTRUCTURE CATEGORY	PROJECT LENGTH (M)	LAND AREA HA	ESTIMATED PROJECT COST: LAND	ESTIMATED PROJECT COST: CONSTRUCTION	TOTAL ESTIMATED PROJECT COST: LAND & CONSTRUCTION	% APPORTIONED TO DCP (INTERNAL USE)	TOTAL COST RECOVERED BY DCP	RESIDENTIAL - CONTRIBUTION PER NDHA	EMPLOYMENT- CONTRIBUTION PER NDHA
Road Projec	ets										
RD- 53 -01A	Thompsons Road (Berwick-Cranbourne Road to Smiths Lane)	Development	760	2.90	\$2,261,237	\$3,118,090	\$5,379,327	100%	\$5,379,327	\$3,735	\$3,735
RD- 53 -01B	Thompsons Road (Berwick-Cranbourne Road to Smiths Lane) - Employment	Development	1100	7.26	\$2,581,956	\$4,513,025	\$7,094,981	64%	\$4,540,788	\$3,153	\$3,153
RD- 53 -02	Tuckers Road (Hardys Road to Bells Road)	Development	540	4.53	\$2,399,840	\$2,219,992	\$4,623,906	100%	\$4,623,906	\$3,210	\$3,210
RD- 53 -03A	Bells Road (Hardys Road to Thompsons Road)	Development	630	4.70	\$2,730,899	\$2,604,733	\$5,339,734	100%	\$5,339,734	\$3,707	\$3,707
RD-54-01	Hardys Road (Berwick-Cranbourne Road Road to Bells Road)	Development	1520	4.27	\$2,797,669	\$6,212,571	\$9,014,314	100%	\$9,014,314	\$6,259	\$6,259
RD-54-02	Pattersons Road (Berwick-Cranbourne Road to Bells Road/eastern boundary of PSP 1054)	Development	1900	8.11	\$4,724,567	\$7,815,225	\$12,543,895	100%	\$12,543,895	\$8,709	\$8,709
RD-54-03	Tuckers Road (Ballarto Road to Hardys Road)	Development	1730	4.15	\$2,092,250	\$7,048,124	\$9,140,374	100%	\$9,140,374	\$6,346	\$6,346
RD-54-04	Bells Road (Pattersons Road to Hardys Road)	Development	1105	5.51	\$2,374,483	\$4,533,539	\$6,908,022	100%	\$6,908,022	\$4,796	\$4,796
RD-54-05	Valetta Road (Clyde township)	Development	357	0.00	\$-	\$1,943,108	\$1,943,108	100%	\$1,943,108	\$1,349	\$1,349
RD-54-06	Oroya Road (Clyde township)	Development	497	0.00	\$-	\$2,705,111	\$2,705,111	100%	\$2,705,111	\$1,878	\$1,878
RD-54-07	Railway Road (Clyde township)	Development	975	0.00	\$-	\$5,306,808	\$5,306,808	100%	\$5,306,808	\$3,684	\$3,684
RD-57.1-01	Ballarto Road (Clyde-Five Ways Road to Casey Fields Boulevarde)	Development	1000	0.00	\$-	\$4,074,060	\$4,074,060	100%	\$4,074,060	\$2,829	\$2,829
RD-57.1-02	Casey Fields Boulevard	Development	300	1.96	\$1,620,646	\$1,632,864	\$3,253,510	100%	\$3,253,510	\$2,259	\$2,259
	pad projects		12414	43.38	\$23,583,547	\$53,727,250	\$77,327,151		\$74,772,958	\$51,914	\$51,914
Intersection	Projects										
IN-53-01	Thompsons Road / Berwick-Cranbourne Road	Development		0.18	\$45,750	\$8,227,299	\$8,273,049	50%	\$4,159,399	\$2,888	\$2,888
IN-53-02	Thompsons Road / North-south connector (West of Bells Road-West to Pound Road)	Development		0.32	\$147,837	\$4,603,976	\$4,751,813	100%	\$4,751,813	\$3,299	\$3,299
IN-53-03	Thompsons Road / North-south connector (West of Bells Road-East to old Pound road)	Development		0.28	\$111,552	\$4,270,344	\$4,381,897	100%	\$4,381,897	\$3,042	\$3,042
IN-53-04	Bells Road / Thompson Road	Development		0.28	\$106,646	\$6,129,078	\$6,235,725	100%	\$6,235,725	\$4,329	\$4,329
IN-53-05	Thompsons Road / north-south connector (West of Bells Road-west)	Development		0.35	\$192,895	\$3,698,176	\$3,891,071	100%	\$3,891,071	\$2,702	\$2,702
IN-53-06	Thompsons Road / north-south connector (East of Bells Road-east)	Development		0.36	\$175,590	\$3,938,444	\$4,114,034	100%	\$4,114,034	\$2,856	\$2,856
IN-53-07	Berwick-Cranbourne Road / East-west industrial connector	Development		0.30	\$217,836	\$4,437,766	\$4,655,602	100%	\$4,655,602	\$3,232	\$3,232
IN-53-08	Bells Road / East-west connector	Development		0.29	\$125,697	\$4,146,897	\$4,272,594	100%	\$4,272,594	\$2,966	\$2,966
IN-53-09	Berwick-Cranbourne Road / East-west connector (North of Hardys Road)	Development		0.27	\$180,225	\$3,363,945	\$3,544,170	100%	\$3,544,170	\$2,461	\$2,461
IN-53-10	Tuckers Road / East-west connector (east of Bells)	Development		0.38	\$233,803	\$3,022,305	\$3,256,108	100%	\$3,256,108	\$2,261	\$2,261
IN-53-11	Bells Road / Tuckers Road	Development		0.35	\$200,820	\$4,499,707	\$4,700,527	100%	\$4,700,527	\$3,264	\$3,264
IN-53-12	Berwick-Cranbourne Road / Hardys Road	Development		0.30	\$356,560	\$5,381,691	\$5,738,251	100%	\$5,738,251	\$3,984	\$3,984
IN-53-13	Hardys Road / North South connector (east of Berwick-Cranbourne Road)	Development		0.24	\$166,734	\$3,343,848	\$3,510,582	100%	\$3,510,582	\$2,437	\$2,437
IN-53-14	Hardys Road / Connector MTC	Development		0.16	\$19,934	\$3,008,176	\$3,028,111	100%	\$3,028,111	\$2,102	\$2,102
IN-53-15	Tuckers Road / Hardys Road	Development		0.88	\$549,123	\$5,068,839	\$5,617,962	100%	\$5,617,962	\$3,901	\$3,901
IN-53-16	Hardys Road / North-south connector (West of Bells road-West)	Development		0.24	\$106,100	\$3,765,275	\$3,871,375	100%	\$3,871,375	\$2,688	\$2,688
IN-53-17	Bells Road / Hardys Road	Development		0.15	\$74,890	\$4,152,494	\$4,227,384	100%	\$4,227,384	\$2,935	\$2,935
IN-53-18	Tuckers Road / North-South connector	Development		0.07	\$37,100	\$2,904,970	\$2,942,070	100%	\$2,942,070	\$2,043	\$2,043
IN-54-01	Berwick-Cranbourne Road/ Heather Grove	Development		0.21	\$242,002	\$1,213,569	\$1,455,571	100%	\$1,455,571	\$1,011	\$1,011
IN-54-02	Tuckers Road / Heather Grove	Development		0.15	\$84,371	\$3,250,780	\$3,335,150	100%	\$3,335,150	\$2,316	\$2,316
IN-54-03	Bells Road / Heather Grove	Development		0.16	\$60,061	\$3,327,073	\$3,387,133	100%	\$3,387,133	\$2,352	\$2,352
IN-54-04	Berwick-Cranbourne Road / Pattersons Road	Development		0.43	\$402,419	\$2,432,254	\$2,834,673	100%	\$2,834,673	\$1,968	\$1,968
IN-54-05	Pattersons Road / North-south connector	Development		0.18	\$179,247	\$3,464,748	\$3,643,994	100%	\$3,643,994	\$2,530	\$2,530
IN-54-06	Tuckers Road / Patterson Road	Development		0.39	\$225,901	\$4,890,591	\$5,116,492	100%	\$5,116,492	\$3,552	\$3,552



DCP PROJECT NO.	PROJECT	INFRASTRUCTURE CATEGORY	PROJECT LENGTH (M)	LAND AREA HA	ESTIMATED PROJECT COST: LAND	ESTIMATED PROJECT COST: CONSTRUCTION	TOTAL ESTIMATED PROJECT COST: LAND & CONSTRUCTION	% APPORTIONED TO DCP (INTERNAL USE)	TOTAL COST RECOVERED BY DCP	RESIDENTIAL - CONTRIBUTION PER NDHA	EMPLOYMENT- CONTRIBUTION PER NDHA
Intersection	Projects										
IN-54-07	Patterson Road / North-south (East of Tuckers Road)	Development		0.12	\$78,338	\$3,276,775	\$3,355,112	100%	\$3,355,112	\$2,329	\$2,329
IN-54-08	Patterson Road / Bells Road	Development		0.22	\$121,813	\$-	\$121,813	100%	\$121,813	\$85	\$85
IN-54-09	Berwick-Cranbourne Road / East-west (south of Pattersons Road)	Development		0.15	\$131,148	\$3,026,352	\$3,157,500	100%	\$3,157,500	\$2,192	\$2,192
IN-54-11	Tuckers Road / South connector (active open space AR-54-04)	Development		0.09	\$51,640	\$3,171,846	\$3,223,486	100%	\$3,223,486	\$2,238	\$2,238
IN-54-12	Bells Road / South connector	Development		0.05	\$31,338	\$3,314,736	\$3,346,073	100%	\$3,346,073	\$2,323	\$2,323
IN-54-13	Tuckers Road / South connector (MTC)	Development		0.10	\$82,899	\$2,514,085	\$2,596,984	100%	\$2,596,984	\$1,803	\$1,803
IN-54-14	Tuckers Road / South connector (Ballarto road MTC main street)	Development		0.17	\$109,500	\$2,649,759	\$2,759,259	100%	\$2,759,259	\$1,916	\$1,916
IN-54-15	Berwick-Cranbourne Road / Ballarto Road	Development		0.29	\$208,521	\$6,595,201	\$6,803,723	50%	\$3,506,122	\$2,434	\$2,434
IN-54-17	Ballarto Road / MTC connector	Development		0.06	\$38,400	\$-	\$38,400	100%	\$38,400	\$27	\$27
IN-54-18	Tuckers Road / Ballarto Road	Development		0.26	\$205,148	\$-	\$205,148	100%	\$205,148	\$142	\$142
IN-54-19	Ballarto Road / Connector East	Development		0.06	\$30,748	\$-	\$30,748	100%	\$30,748	\$21	\$21
IN-54-20	Bells Road / Ballarto Road	Development		0.10	\$73,346	\$4,861,316	\$4,934,662	100%	\$4,934,662	\$3,426	\$3,426
IN-57.1-1	Berwick-Cranbourne Road / East-west connector	Development		0.10	\$62,100	\$3,270,840	\$3,332,940	100%	\$3,332,940	\$2,314	\$2,314
IN-57.1-2	Ballarto Road / North-south connector	Development		0.07	\$48,700	\$3,469,023	\$3,517,723	50%	\$1,783,212	\$1,238	\$1,238
IN-57.1-3	Casey fields / East-south connector	Development		0.07	\$61,188	\$2,631,917	\$2,693,104	100%	\$2,693,104	\$1,870	\$1,870
IN-57.1-4	Casey fields BLVD / Ballarto Road	Development		0.06	\$45,477	\$4,469,812	\$4,515,289	50%	\$2,280,383	\$1,583	\$1,583
Sub-total in	tersection projects			8.91	\$5,623,396	\$139,793,906	\$145,417,302		\$134,036,634	\$93,061	\$93,061
Bridge Proje	ects										
BR-53-01	Thompson Road culvert over Ti Tree Creek	Development				\$160,983	\$160,983	100%	\$160,983	\$112	\$112
BR-53-02	Thompson Road culvert over Ti Tree Creek	Development				\$175,608	\$175,608	100%	\$175,608	\$122	\$122
BR-53-03	Bells Road culvert over Ti Tree Creek	Development				\$489,766	\$489,766	100%	\$489,766	\$340	\$340
BR-53-04	Thompson Road culvert over Ti Tree Creek	Development				\$492,626	\$492,626	100%	\$492,626	\$342	\$342
BR-53-05	Tuckers Road over desalination easement	Development				\$144,315	\$144,315	100%	\$144,315	\$100	\$100
BR-53-06	Bells Road over desalination easement	Development				\$144,315	\$144,315	100%	\$144,315	\$100	\$100
BR-54-01	Hardys Road crossing of drainage area	Development				\$525,109	\$525,109	100%	\$525,109	\$365	\$365
BR-54-04	Hardys Road crossing of drainage area	Development				\$286,925	\$286,925	100%	\$286,925	\$199	\$199
BR-54-05	Hardy Road crossing of drainage area	Development				\$352,722	\$352,722	100%	\$352,722	\$245	\$245
BR-54-07	Tuckers Road crossing of drainage area	Development				\$341,765	\$341,765	100%	\$341,765	\$237	\$237
BR-54-11	Pattersons Road culvert of drainage area	Development				\$446,250	\$446,250	100%	\$446,250	\$310	\$310
BR-54-14	Tuckers Road crossing of drainage area	Development				\$274,083	\$274,083	100%	\$274,083	\$190	\$190
BR-54-15	Bells Road crossing of drainage area over Clyde Creek	Development				\$167,185	\$167,185	100%	\$167,185	\$116	\$116
BR-54-16	Tuckers Road crossing of drainage area	Development				\$445,001	\$445,001	100%	\$445,001	\$309	\$309
Sub-total B	ridge projects					\$4,446,653	\$4,446,653		\$4,446,653	\$3,087	\$3,087
Community	facilities										
CO-53-01	Family and Children's Centre (Level 1)	Development		0.70	\$663,786	\$4,324,182	\$4,987,968	100%	\$4,987,968	\$3,709	
CO-53-02	Level 3 Community Facilities - Branch Library & Community Centre	Development		1.51	\$984,490	\$-	\$984,490	100%	\$984,490	\$732	
CO-53-03	Community Care Hub / Host Home	Development		0.23	\$128,755	\$-	\$128,755	100%	\$128,755	\$96	
CO-53-04	Family and Children's Centre (Level 1)	Development		0.70	\$557,258	\$4,324,182	\$4,881,440	100%	\$4,881,440	\$3,630	
CO-54-01	Family and Children's Centre (Level 1)	Development		0.70	\$461,425	\$4,324,182	\$4,785,607	100%	\$4,785,607	\$3,559	
CO-54-02	Family and Children's Centre (Level 1)	Development		0.70	\$388,152	\$4,324,182	\$4,712,334	100%	\$4,712,334	\$3,504	
CO-54-03	Family and Children's Centre (Level 1)	Development		0.70	\$591,072	\$4,324,182	\$4,915,254	100%	\$4,915,254	\$3,655	



DCP PROJECT NO.	PROJECT	INFRASTRUCTURE CATEGORY	PROJECT LENGTH (M)	LAND AREA HA	ESTIMATED PROJECT COST: LAND	ESTIMATED PROJECT COST: CONSTRUCTION	TOTAL ESTIMATED PROJECT COST: LAND & CONSTRUCTION	% APPORTIONED TO DCP (INTERNAL USE)	TOTAL COST RECOVERED BY DCP	RESIDENTIAL - CONTRIBUTION PER NDHA	EMPLOYMENT- CONTRIBUTION PER NDHA
Communit	y facilities										
CO-54-04	Family and Children's Centre (Level 1)	Development		0.70	\$809,741	\$4,324,182	\$5,133,923	100%	\$5,133,923	\$3,818	
CO-54-05	Level 3 Community Facilities - Specialist Community Centre	Development		1.49	\$1,148,804	\$-	\$1,148,804	100%	\$1,148,804	\$854	
CO-54-06	Family and Children's Centre (Level 1)	Development		0.70	\$315,000	\$4,324,182	\$4,639,182	100%	\$4,639,182	\$3,450	
Sub-total co	ommunity facilities			8.13	\$6,048,483	\$30,269,274	\$36,317,757		\$36,317,757	\$27,008	
Local spor	ts reserves										
LS-53-01	Local sports reserve	Development		8.91	\$7,145,744	\$4,230,904	\$11,376,648	100%	\$11,376,648	\$8,460	
LS-53-02	Local sports reserve	Development		4.02	\$1,105,821	\$3,322,104	\$4,427,925	100%	\$4,427,925	\$3,293	
LS-53-03	Local sports reserve	Development		13.00	\$9,570,134	\$6,479,827	\$16,049,961	100%	\$16,049,961	\$11,936	
LS-54-01	Local sports reserve	Development		9.08	\$5,821,197	\$4,252,802	\$10,073,999	100%	\$10,073,999	\$7,492	
LS-54-02	Local sports reserve	Development		13.02	\$8,850,141	\$6,462,530	\$15,312,671	100%	\$15,312,671	\$11,387	
LS-54-03	Local sports reserve	Development		10.32	\$8,716,620	\$5,479,052	\$14,195,672	100%	\$14,195,672	\$10,557	
LS-54-04	Local sports reserve	Development		8.36	\$5,668,316	\$4,071,846	\$9,740,162	100%	\$9,740,162	\$7,243	
LS-54-05	Local sports reserve	Development		10.81	\$6,988,843	\$7,290,832	\$14,279,675	100%	\$14,279,675	\$10,619	
IR - 53	Indoor sports contribution	Development		1.60	\$1,575,734	\$-	\$1,575,734	66%	\$1,032,261	\$768	
IR - 54	Indoor sports contribution	Development		6.06	\$4,572,109	\$-	\$4,572,109	66%	\$2,995,183	\$2,227	
Sub-total a	active recreation development infrastructure projects)			85.19	\$60,014,660	\$41,589,897	\$101,604,557		\$99,484,158	\$73,981	
Summary											
Total cost	development infrastructure projects								\$349,058,161		
Total Deve	opment Infrastructure Levy per NDA									\$249,051	\$148,062



 Table 11
 Infrastructure Project Timing and Calculation of Costs - Community Infrastructure Levy

DCP PROJECT NO.	PROJECT	INFRASTRUCTURE CATEGORY	LAND AREA HA	ESTIMATED PROJECT COST: LAND	ESTIMATED PROJECT COST: CONSTRUCTION	TOTAL ESTIMATED PROJECT COST: LAND & CONSTRUCTION	% APPORTIONED TO DCP (INTERNAL USE)	TOTAL COST RECOVERED BY DCP	RESIDENTIAL - CONTRIBUTION PER NDHA
CO-53-05	Level 3 Community Facilities - Branch Library & Community Centre	Community	0.00		\$8,538,857	\$8,538,857	100%	\$8,538,857	\$6,350
CO-54-07	Level 3 Community Facilities - Branch Library & Community Centre	Community	0.00		\$8,538,857	\$8,538,857	100%	\$8,538,857	\$6,350
P-53-01	Pavilions within active reserves	Community	0.00		\$1,435,896	\$1,435,896	100%	\$1,435,896	\$1,068
P-53-02	Pavilions within active reserves	Community	0.00		\$1,435,896	\$1,435,896	100%	\$1,435,896	\$1,068
P-53-03	Pavilions within active reserves	Community	0.00		\$2,122,313	\$2,122,313	100%	\$2,122,313	\$1,578
P-54-01	Pavilions within active reserves	Community	0.00		\$1,435,896	\$1,435,896	100%	\$1,435,896	\$1,068
P-54-02	Pavilions within active reserves	Community	0.00		\$3,520,440	\$3,520,440	100%	\$3,520,440	\$2,618
P-54-03	Pavilions within active reserves	Community	0.00		\$2,122,313	\$2,122,313	100%	\$2,122,313	\$1,578
P-54-04	Pavilions within active reserves	Community	0.00		\$1,435,896	\$1,435,896	100%	\$1,435,896	\$1,068
P-54-05	Pavilions within active reserves	Community	0.00		\$1,435,896	\$1,435,896	100%	\$1,435,896	\$1,068
Sub-total act	tive recreation (community infrastructure levy)				\$32,022,260	\$32,022,260		\$32,022,260	\$23,813
Summary									
Total Commi	unity Infrastructure Levy per Dwelling							\$900	
Total Commi	unity Infrastructure Levy Estimated Raised Via Clyde DCP						\$19,363,953		

Summary		
Total Community Infrastructure Levy per Dwelling	\$900	
Total Community Infrastructure Levy Estimated Raised Via Clyde DCP	\$19,363,953	



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4.0 DEVELOPMENT CONTRIBUTIONS PLAN ADMINISTRATION

This section sets out how this DCP will be administered and covers the timing of payment, provision of works and land in kind and how funds generated by this DCP will be managed in terms of reporting, indexation and review periods.

The DCP Development Infrastructure Levy applies to subdivision and / or development of land.

The DCP Community Infrastructure Levy applies to the construction of dwellings and must be paid prior to the issue of a Building Permit.

Council will be both the Collecting Agency and the Development Agency for the purposes of this DCP.

4.1 Payment of Contribution Levies and Payment Timing

4.1.1 Development Infrastructure

For subdivision of Land

- A development infrastructure levy must be paid to the Collecting Agency 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 with respect to that plan.
- Where the subdivision is to be developed in stages, the infrastructure levy for the stage to be developed may
 only be paid to the Collecting Agency within 21 days prior to the issue of a Statement of Compliance for
 that stage provided that a Schedule of Development Contributions is submitted with each stage of plan of
 subdivision. This Schedule must show the amount of the development contributions payable for each stage
 and the value of the contributions for prior stages to the satisfaction of the Collecting Agency.

If the Collecting Agency agrees to works or provision of land in lieu of the payment of the infrastructure levy, the land owner must enter into an agreement under Section 173 of the *Planning and Environment Act 1987* in respect of the proposed works or provision of land in lieu to specific requirements.

For development of land where no subdivision is proposed

Provided a development infrastructure levy has not already been paid on subject land, an infrastructure levy
must be paid to the Collecting Agency in accordance with the provisions of the approved DCP for each demand
unit (Net Developable Hectare) proposed to be developed prior to the commencement of any development
(i.e. development includes buildings, car park, access ways landscaping and ancillary components). The
Collecting Agency may require that contributions be made at either the planning or building permit stage for
Development Infrastructure.

If the Collecting Agency agrees to works or provision of land in lieu of the payment of the infrastructure levy, the land owner must enter into an agreement or other suitable arrangement under Section 173 of the *Planning and Environment Act 1987* in relation to the proposed works or land in lieu.

Where no planning permit is required

The following requirements apply where no planning permit is required. The land may only be used and developed subject to the following requirements being met:

 Unless otherwise agreed to by the Collecting Agency in a Section 173 agreement, a development infrastructure levy must be paid to the Collecting Agency prior to the commencement of any development in accordance with the provision of this approved Development Contributions Plan for the land.

If the Collecting Agency agrees to works or provision of land in lieu of the payment of the infrastructure levy, the land owner must enter into an agreement under Section 173 of the *Planning and Environment Act 1987* in respect of the proposed works or provision of land in lieu.



4.1.2 Community Infrastructure Levy

Contributions relating to community infrastructure are to be made by the home builder prior to the issue of a building permit. However, development proponents are encouraged to pay the levy prior to the issue of a statement of compliance to reduce the administrative burden of collection from individual home builders.

Levies for 'residential buildings' will be calculated at the rate for a single dwelling. In all other forms of accommodation, the dwelling is the individual unit (such as each dwelling in a residential village, retirement village, serviced apartment complexes and so on). Corrective institutions are exempt.

A community infrastructure levy is not payable for a dwelling on a lot which was created prior to the date that this DCP was first incorporated into the Casey Planning Scheme.

4.1.3 Works in Kind

The Collecting Agency may permit development proponents to undertake works in lieu of cash payments, providing that:

- The works constitute project(s) funded by this DCP.
- The Collecting Agency agrees that the timing of the works would be consistent with priorities in this DCP.
- The works are defined and agreed in a Section 173 agreement.
- Works must be provided to a standard that accords with this DCP to the satisfaction of the Development Agency, unless an alternative is agreed by both the Development Agency and the Collecting Agency.
- Detailed design must be approved by the Development Agency and the Collecting Agency and must generally accord with the expectations outlined in this DCP unless an alternative is agreed by both the Development Agency and the Collecting Agency.
- The construction of works must be completed to the satisfaction of the Development Agency and the Collecting Agency.
- There should be no negative financial impact on this DCP to the satisfaction of the Collecting Agency.
- In particular, the works will only be accepted in lieu of a financial contribution required by this DCP to the
 extent that they constitute part or all of the design of the infrastructure item and reduce the cost to complete
 that design, to the Collecting Agency's satisfaction. Temporary works will not be accepted as works in kind.

4.1.4 Credit for Over Provision

Where the Collection Agency agrees that a development proponent can physically provide an infrastructure item (either works and/or land) the situation may arise where the developer makes a contribution with a value that exceeds that required by the DCP for the individual project.

In such a case the developer may be entitled to credits against other projects in the DCP to the extent of the excess contribution. Alternatively, the developer may seek an agreement with the Collecting Agency to provide for a cash reimbursement where a significant over contribution has been made on a particular project.

The details of credits and reimbursements will need to be negotiated with, and agreed to by the Collecting Agency.

4.1.5 Land uses exempt from contributions

Where land is subdivided or developed for the purpose of a government school, non government school or any other use that is partly or wholly exempt from development contributions and the land is subsequently used for a purpose other than as one of those exempt uses, the owner of that land must pay to the Collecting Agency development contributions in accordance with the provisions of the DCP. The development infrastructure levy and where applicable, the community infrastructure levy must be paid within 28 days of the date of the commencement of the construction of any buildings or works for that alternative use.



4.2 Funds Administration

The administration of the contributions made under this DCP will be transparent and the levy contribution mode under this Development contributions plan will be held by collecting agency until required for provision of the item. Details of funds received and expenditures will be held by the Collecting Agency in accordance with the provisions of the *Local Government Act 1993* and the *Planning and Environment Act 1987*.

The administration of contributions made under this DCP will be transparent and demonstrate:

- The amount and timing of funds collected.
- The sources of the funds collected.
- The amount and timing of expenditure on specific projects.
- The project on which the expenditure was made.
- The account classes or individual project classes.
- Details of any works-in-kind arrangements for project provision.
- Any pooling or quarantining of funds to deliver specific projects where applicable.

The Collecting Agency will provide for regular monitoring, reporting and review of the monies received and expended in accordance with this DCP.

The Collecting Agency will establish interest bearing accounts and all monies held in these accounts will be used solely for the provision of infrastructure as specified in this DCP, as required under Section 46QB(2) of the *Planning and Environment Act 1987*.

Should the Collecting Agency achieve savings on any project, or resolve not to proceed with any of the infrastructure projects listed in this DCP, the funds collected for these items will be used for alternative works in the same infrastructure class as specified by this DCP. Such funds may also be used for the provision of additional works, services or facilities where approved by the Minister responsible for the *Planning and Environment Act*, or will be refunded to developers and / or owners of land subject to these infrastructure charges.

4.3 Construction and Land Value Costs Indexation

Capital costs of all infrastructure items (with the exception of land) are in 2014 dollars and will be indexed by the Collecting Agency quarterly to take account of inflation.

In relation to the costs of infrastructure items other than land, the cost must be adjusted according to the following methods:

- Roads, intersections and bridges in line with the Australian Bureau of Statistics Producer Price Indexes, Road
 and Bridge Construction Index, Victoria.
- All other infrastructure items in line with the Australian Bureau of Statistics Producer Price Indexes, Non-Residential Building Construction Index, Victoria.

Amended by C208

Land values will be adjusted on 1 July every year following a revaluation by a registered valuer of properties with land required by the DCP. Within 14 days of the revaluation, the Collecting Agency will publish the amended contributions on the Collecting Agency's website.

Community Infrastructure Levy projects are not indexed as the value of the contribution is set by the *Planning and Environment Act 1987*.

If in the future the Community Infrastructure Levy is amended, then the levy applicable to the release of any remaining dwellings may be adjusted in accordance with the revised legislative and regulatory approach as directed by the Minister for Planning.

4.4 Development Contributions Plan Review Period

This DCP adopts a long-term outlook for development. It takes into account planned future development in the Clyde area. A 'full development' horizon of land within the current Urban Growth Boundary within 30 years of gazettal of this DCP has been adopted.

This DCP commences on the date of incorporation into the Casey Planning Scheme. This DCP will end when development within the DCP area is complete, which is projected to be 30 years after gazettal, or when the DCP is removed from the Planning Scheme.



The DCP is expected to be revised and updated every 5 years (or more frequently if required). This will require an amendment to the Casey Planning Scheme to replace this document with an alternative, revised document. Any review will need to have regard to any arrangements (for example an agreement under s173 of the Act) for the implementation of this DCP.

4.5 Collecting Agency (Agency Responsible for Collecting Infrastructure Levy)

Casey City Council is the Collecting Agency pursuant to section 46K(1)(fa) of the *Planning and Environment Act* 1987 which means that it is the public authority to whom all levies are payable. As the Collecting Agency, Casey City Council is also responsible for the administration of this DCP and also its enforcement pursuant to Section 46QC of the Act.

4.6 Development Agency (Agency Responsible for Works)

Casey City Council is the Development Agency and is responsible for the provision of all of the DCP projects identified in this DCP.



5.0 IMPLEMENTATION STRATEGY

This section provides further details regarding how the Collecting Agency intends to implement this DCP. In particular, this section clearly identifies the rationale for the implementation strategy and the details the various measures that have been adopted to reduce the risk posed by this DCP to all parties.

5.1 Rationale for the Implementation Strategy

This implementation strategy has been incorporated into this DCP to provide certainty to the Collecting Agency and development proponents. The implementation strategy recognises the complexities associated with infrastructure provision and funding and seeks to minimise risk to the Collection Agency, Development Agency, development proponent and future community.

The implementation strategy has been formulated by:

- Precinct Structure Plans.
- Having regard to the development context.
- Assessing the need for finance requirements up front financing and pooling of funds.
- Agreeing the land value .
- Seeking direct delivery of infrastructure and land be development proponents where appropriate.
- Identifying preferred implementation mechanisms to achieve the above outcomes and reducing the risk associated with the DCP to ensure that it will be delivered as intended.
- Provision of adequate resources to administer this DCP.

5.2 Implementation Mechanism

Under Section 46P of the Act, the Collecting Agency may accept (with the consent of the Development Agency where the Collecting Agency is not also the Development Agency), the provision of land, works, services or facilities by the applicant in part of full satisfaction of the amount of levy payable. This can be agreed with the Collecting Agency before or after the application for the permit is made or before the development is carried out.

To coordinate the provision of infrastructure, it is proposed that the owner of all properties enter into an agreement under s173 of the Act to provide for provision of works in kind.

Through the approval of these agreements Casey City Council (acting as the Collecting Agency) will consider if and what infrastructure should be provided as in-kind works under this DCP in accordance with Section 46P of the Act. The agreement must include a list of the DCP infrastructure which the Collecting Agency has agreed in writing to allow to be provided as works in kind.



Amended by C208

 Table 12
 External Apportionment

(Detailed information on infrastructure delivery priorities will be included in the Clyde DCP following agency review, for public exhibition.)

DCP PROJECT NO.	PROJECT	% APPORTIONED TO DCP (INTERNAL USE)	CLYDE NORTH DCP PSP (13)	FUTURE CLYDE EAST DCP PSP (1055) / FUTURE CASEY FIELDS SOUTH EMPLOYMENT DCP PSP (1057.2) / FUTURE CLYDE SOUTH DCP PSP (1056)	CRANBOURNE NORTH DCP
RD- 53 -01B	Thompsons Road (Berwick-Cranbourne Road to Smiths Lane) - Employment	64%	36%		
IN-53-01	Thompsons Road / Berwick-Cranbourne Road	50%		50%	
IN-54-08	Patterson Road / Bells Road			100%	
IN-54-15	Berwick-Cranbourne Road / Ballarto Road	50%		50%	
IN-54-17	Ballarto Road / MTC connector			100%	
IN-54-18	Tuckers Road / Ballarto Road			100%	
IN-54-19	Ballarto Road / Connector East			100%	
IN-57.1-2	Ballarto Road / North- south connector	50%		50%	
IN-57.1-4	Casey fields BLVD / Ballarto Road	50%		50%	
IR - 53	Indoor sports contribution	66%		34%	
IR - 54	Indoor sports contribution	66%		34%	

 $^{^{*}}$ 100% of land cost for intersection flarings has been provided within the Clyde DCP area.



Amended by C208 Table 13 Land valuation

PSP 53-THOMP	SONS RO	AD			LAND VALUTIONS							
PSP	JONS RO		щ	Ω	EMPLOYMENT	EMPLOYMENT	RESIDENTIAL	RESIDENTIAL				
PROPERTY ID	TOTAL AREA (Ha)	TOTAL NET DEVELOPABLE AREA (HECTARES)	TOTAL NET DEVELOPABLE AREA RESIDENTIAL (HECTARES)	TOTAL NET DEVELOPABLE AREA EMPLOYMENT(HECTARES)	'UNDER' PROVISION	'OVER' PROVISION	'UNDER' PROVISION	'OVER' PROVISION				
Property												
53-01 Residential	0.55	0.43	0.43				0.05	0.07				
53-01 Industrial	37.36	23.73		23.73	1.38	0.00						
53-02 Residential	23.13	13.12	13.12				0.45	0.00				
53-02 Industrial	20.73	17.78		17.78	0.88	0.00						
53-03 Residential	39.53	29.76	29.76				3.39	2.07				
53-03 Commercial	0.15	0.05		0.05	0.00	0.00						
53-04 Residential	41.26	24.37	24.37				0.05	0.00				
53-04 Commercial	0.92	0.92		0.92	0.00	0.00						
53-05 Residential	17.98	13.43	13.43				1.35	0.00				
53-05 Commercial	22.04	11.38		11.38	1.06	1.32						
53-06 Residential	28.75	26.36	26.36				0.50	0.00				
53-06 Commercial	11.27	6.35		6.352	0.59	2.00						
53-07 Residential	41.65	29.34	29.34				1.34	0.00				
53-07 Commercial	7.06	4.99		4.99	0.46	1.01						
53-08	0.63	0.63	0.63				0.00	0.00				
53-09	42.67	23.47	23.47				2.16	0.00				
53-10	1.00	0.88	0.88				0.10	0.01				
53-11	0.96	0.85	0.85				0.10	0.01				
53-12	48.32	42.30	42.30				0.73	0.00				
53-13	30.25	16.79	16.79				1.91	6.31				
53-14	39.74	29.87	29.87				3.40	2.08				
53-15 Residential	38.73	31.64	31.64				2.79	0.00				
53-15 Commercial	4.64	4.34	22.1	4.34	0.00	0.00						
53-16 Residential	38.05	33.14	33.14				2.96	0.00				
53-16 Commercial	9.64	9.34		9.34	0.00	0.00						
53-17	0.40	0.40	0.40				0.00	0.00				



Section Sect								
	53-18 Residential	32.13	24.15	24.153				2.75
19	3-18 ommercial	8.40	8.27		8.27	0.13	0.00	
Marticial 20	3-19 esidential	0.78	0.01	0.01				0.00
Second 1.65 1.65 1.65 1.65 1.65 0.00	-19 ommercial	3.36	3.36		3.36	0.00	0.00	
mmercial	3-20 esidential	15.72	14.86	14.86				0.00
Section Sect	-20 ommercial	1.65	1.65		1.65	0.00	0.00	
mmercial mmercial	-21 esidential	1.42	1.39	1.39				0.03
23	-21 mmercial	2.64	2.59		2.59	0.05	0.00	
11.82 11.82 11.82 12.8	-22	14.57	7.79	7.79				0.89
25	23	32.58	22.02	22.02				2.51
idential 25	24	15.27	11.82	11.82				0.31
mmercial 26	25 sidential	0.22	0.00	0.00				0.00
mmercial	-25 mmercial	0.12	0.12		0.12	0.00	0.00	
Section Sect	-26 mmercial	0.13	0.12		0.12	0.01	0.00	
Commercial Com		0.10	0.09		0.09	0.01	0.00	
mmercial 30		0.08	0.08		0.08	0.01	0.00	
mmercial 31	29 mmercial	0.08	0.08		0.08	0.00	0.00	
mmercial 32	mmercial							
mmercial 33	mmercial							
mmercial 33a	mmercial							
mmercial B-TOTAL 677.03 494.43 398.83 95.60 4.57 4.33 27.74 ad reserve 34 (pound 6.88 2.56 2.56 d) 35(tuckers 1.69 0.68 0.68 d reserve) 36 7.79 0.48 0.48 ompsons rd) s triangle 37(berwick 1.93 0.00 0.00 nbourne rd) B-TOTAL 18.30 3.72 3.72 0.00	mmercial							
34 (pound 6.88 2.56 2.56 d) 35(tuckers 1.69 0.68 0.68 d reserve) 36 7.79 0.48 0.48 ompsons rd) striangle 37(berwick 1.93 0.00 0.00 nbourne rd) B-TOTAL 18.30 3.72 3.72 0.00	mmercial			200.02				27.7
34 (pound d) 6.88 2.56 2.56 d) 35(tuckers d) 0.68 0.68 d reserve) 36 7.79 0.48 0.48 pmpsons rd) s triangle 37(berwick d) 0.00 0.00 nbourne rd) 8-TOTAL 18.30 3.72 3.72 0.00		0/7.03	494.43	290.83	93.00	4.57	4.53	27.74
d) 35(tuckers 1.69 0.68 0.68 d reserve) 36 7.79 0.48 0.48 ompsons rd) s triangle 37(berwick 1.93 0.00 0.00 ombourne rd) 3-TOTAL 18.30 3.72 3.72 0.00								
d reserve) 36 7.79 0.48 0.48 Impsons rd) 37 (berwick 1.93 0.00 0.00 38-TOTAL 18.30 3.72 3.72 0.00	d) .							
ompsons rd) s triangle 37(berwick 1.93 0.00 0.00 nbourne rd) B-TOTAL 18.30 3.72 3.72 0.00	d reserve)							
nbourne rd) B-TOTAL 18.30 3.72 0.00	·36 ompsons rd) Is triangle	7.79	0.48	0.48				
	-37(berwick anbourne rd)	1.93	0.00	0.00				
TAL 695.33 498.15 402.56 95.60	UB-TOTAL	18.30	3.72	3.72	0.00			
77.10	ΤΔΙ	695 33	498 15	402 56	95 60			
	IAL	099.33	770.13	702.50	25.00			



Property Property	PSP 54 - CLYDE C	REEK				LAND VALUT	IONS		
Property Property		MLLK		111	~			RESIDENTIAL	RESIDENTIAL
54-1 8.39 7.11 7.11 0.01 0.00 0.30 0.00 0.30 0.00 0.30 0.00 0.30 0.00 0.30 0.00 0.30 0.00 0.30 0.00 0.30 0.00 0.00 54-4 7.64 4.22 4.22 0.21 0.00 0.00 0.07 0.09 54-5 0.86 0.70 0.70 0.00 0.00 54-6 18.26 13.57 15.72 0.70 0.00 54-6 18.26 13.57 15.72 0.70 0.00 0.00 54-7 16.13 15.42 171 0.00 54-8 0.40 0.32 0.32 0.00 0.00 0.00 54-19 0.62 0.50 0.50 0.00 0.00 0.00 54-19 0.62 0.50 55 0.00 0.00 0.00 54-12 0.61 0.46 0.46 0.02 0.00 54-12 0.61 0.46 0.46 0.02 0.00 54-13 0.01 0.43		TOTAL AREA (Ha)	TOTAL NET DEVELOPABLE AREA (HECTARES)	TOTAL NET DEVELOPABLI AREA RESIDENTIAL (HECTARES)	TOTAL NET DEVELOPABLE AREA IPLOYMENT(HECTAR	'UNDER'	'OVER'	'UNDER'	'OVER'
54-2 8.49 7.00 7.00 0.30 0.00 54-3 8.51 6.55 6.55 0.39 0.00 54-4 7.64 4.22 4.22 0.21 0.00 54-5 0.86 0.70 0.07 0.07 0.09 54-6 18.26 13.57 13.57 0.70 0.00 54-7 16.13 15.42 0.01 0.00 54-8 4-8 0.40 0.32 0.50 0.00 0.00 54-9 0.62 0.50 0.50 0.00 0.00 54-10 8.81 8.72 8.72 0.00 0.00 54-11 7.43 7.25 7.25 0.06 0.00 54-12 0.61 0.46 0.46 0.02 0.00 54-13 0.61 0.43 0.43 0.04 0.01 54-14 0.60 0.43 0.43 0.04 0.01 54-15 14.55 14.04	Property								
54-3 8.51 6.55 6.55 0.39 0.00 54-4 7.64 4.22 4.22 0.21 0.00 54-5 0.86 0.70 0.70 0.07 0.07 0.00 54-6 18.26 13.57 13.57 0.70 0.00 54-8 0.40 0.32 0.32 0.00 0.00 54-9 0.62 0.50 0.50 0.00 0.00 54-10 8.81 8.72 8.72 0.00 0.00 54-11 7.43 7.25 7.25 0.06 0.00 54-12 0.61 0.46 0.46 0.02 0.00 54-13 0.61 0.43 0.43 0.43 0.04 0.01 54-14 0.60 0.43 0.43 0.43 0.04 0.01 54-15 14.55 14.04 14.04 0.00 0.00 5.00 54-16 34.60 26.59 2.02 0.00 <t< td=""><td>54-1</td><td>8.39</td><td>7.11</td><td>7.11</td><td></td><td></td><td></td><td>0.41</td><td>0.00</td></t<>	54-1	8.39	7.11	7.11				0.41	0.00
54-4 7.64 4.22 4.22 0.21 0.00 54-5 0.86 0.70 0.70 0.07 0.09 54-6 18.26 13.57 13.57 0.70 0.00 54-7 16.13 15.42 0.71 0.00 54-8 0.40 0.32 0.32 0.00 0.00 54-9 0.62 0.50 0.50 0.00 0.00 54-10 8.81 8.72 8.72 0.00 0.00 54-11 7.43 7.25 7.25 0.06 0.00 54-13 0.61 0.46 0.46 0.02 0.00 54-13 0.61 0.43 0.43 0.04 0.01 54-14 0.60 0.43 0.43 0.04 0.01 54-15 14.55 14.04 0.00 0.00 54-16 34.60 26.59 26.59 2.02 0.00 54-17 33.56 30.00 30.00	54-2	8.49	7.00	7.00				0.30	0.00
54-5 0.86 0.70 0.70 0.09 0.07 0.09 54-6 18.26 13.57 13.57 0.70 0.00 0.00 54-7 16.13 15.42 15.42 0.71 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 54-19 0.62 0.50 0.50 0.01 1.12 0.00 0.00 0.01 0.01 0.01 0.01 0.01 0.00 0.00 0.00 0.00 0.00 <t< td=""><td>54-3</td><td>8.51</td><td>6.55</td><td>6.55</td><td></td><td></td><td></td><td>0.39</td><td>0.00</td></t<>	54-3	8.51	6.55	6.55				0.39	0.00
54-6 18.26 13.57 13.57 0.70 0.00 54-7 16.13 15.42 15.42 0.71 0.00 54-8 0.40 0.32 0.32 0.00 0.00 54-9 0.62 0.50 0.00 0.00 54-10 8.81 8.72 8.72 0.00 0.00 54-11 7.43 7.25 7.25 0.06 0.00 54-12 0.61 0.46 0.46 0.02 0.00 54-13 0.61 0.43 0.43 0.04 0.01 54-14 0.60 0.43 0.43 0.04 0.01 54-15 14.55 14.04 14.04 0.00 0.00 54-16 34.60 26.59 26.59 2.02 0.00 54-17 33.56 30.00 30.00 1.72 0.00 54-19 1.00 0.87 0.87 0.09 0.04 54-21 0.20 0.14	54-4	7.64	4.22	4.22				0.21	0.00
54-7 16.13 15.42 15.42 0.71 0.00 54-8 0.40 0.32 0.32 0.00 0.00 54-9 0.62 0.50 0.50 0.00 0.00 54-10 8.81 8.72 0.00 0.00 54-11 7.43 7.25 7.25 0.06 0.00 54-12 0.61 0.46 0.46 0.02 0.00 54-13 0.61 0.43 0.43 0.04 0.01 54-14 0.60 0.43 0.43 0.04 0.01 54-15 14.55 14.04 40.04 0.00 0.00 54-16 34.60 26.59 26.59 2.02 0.00 54-18 34.07 28.06 28.06 0.78 0.00 54-19 1.00 0.87 0.87 0.00 0.4 54-20 97.65 78.60 78.60 4.83 0.00 54-21 0.20 0.14	54-5	0.86	0.70	0.70				0.07	0.09
54-8 0.40 0.32 0.32 0.00 0.00 54-9 0.62 0.50 0.50 0.00 0.00 54-10 8.81 8.72 8.72 0.00 0.00 54-11 7.43 7.25 7.25 0.06 0.00 54-12 0.61 0.46 0.46 0.02 0.00 54-13 0.61 0.43 0.43 0.04 0.01 54-14 0.60 0.43 0.43 0.04 0.01 54-15 14.55 14.04 14.04 0.00 0.00 54-16 34.60 26.59 2.02 0.00 54-17 33.56 30.00 30.00 1.72 0.00 54-19 1.00 0.87 0.87 0.00 1.72 0.00 54-20 97.65 78.60 78.60 4.83 0.00 54-21 0.20 0.14 0.14 0.01 0.00 54-22 65.86	54-6	18.26	13.57	13.57				0.70	0.00
54-9 0.62 0.50 0.50 0.00 0.00 54-10 8.81 8.72 8.72 0.00 0.00 54-11 7.43 7.25 7.25 0.06 0.00 54-12 0.61 0.46 0.46 0.02 0.00 54-13 0.61 0.43 0.43 0.04 0.01 54-14 0.60 0.43 0.43 0.04 0.01 54-15 14.55 14.04 14.04 0.00 0.00 54-16 34.60 26.59 2.62 2.02 0.00 54-17 33.56 30.00 30.00 1.72 0.00 54-18 34.07 28.06 28.06 0.78 0.00 54-19 1.00 0.87 0.87 0.09 0.04 54-21 0.20 97.65 78.60 78.60 4.83 0.00 54-21 0.20 0.14 0.14 0.01 0.00 0.00	54-7	16.13	15.42	15.42				0.71	0.00
54-10 8.81 8.72 8.72 0.00 0.00 54-11 7.43 7.25 7.25 0.06 0.00 54-12 0.61 0.46 0.46 0.02 0.00 54-13 0.61 0.43 0.43 0.04 0.01 54-14 0.60 0.43 0.43 0.00 0.00 54-15 14.55 14.04 14.04 0.00 0.00 54-16 34.60 26.59 26.59 2.02 0.00 54-17 33.56 30.00 30.00 1.72 0.00 54-18 34.07 28.06 28.06 0.78 0.00 54-19 1.00 0.87 0.87 0.09 0.04 54-20 97.65 78.60 78.60 4.83 0.00 54-21 0.20 0.14 0.14 0.01 0.00 54-22 65.88 60.15 60.15 0.19 0.00 54-23 0.68 </td <td>54-8</td> <td>0.40</td> <td>0.32</td> <td>0.32</td> <td></td> <td></td> <td></td> <td>0.00</td> <td>0.00</td>	54-8	0.40	0.32	0.32				0.00	0.00
54-11 7.43 7.25 7.25 0.06 0.00 54-12 0.61 0.46 0.46 0.02 0.00 54-13 0.61 0.43 0.43 0.04 0.01 54-14 0.60 0.43 0.43 0.00 0.00 54-15 14.55 14.04 14.04 0.00 0.00 54-16 34.60 26.59 26.59 2.02 0.00 54-17 33.56 30.00 30.00 1.72 0.00 54-18 34.07 28.06 28.06 0.78 0.00 54-19 1.00 0.87 0.87 0.09 0.04 54-20 97.65 78.60 78.60 4.83 0.00 54-21 0.20 0.14 0.14 0.01 0.00 54-22 65.88 60.15 60.15 0.19 0.00 54-23 0.68 0.44 0.44 0.04 0.00 54-24 1.00 0.98 0.98 0.02 0.00 54-25 69.29	54-9	0.62	0.50	0.50				0.00	0.00
54-12 0.61 0.46 0.46 0.002 0.00 54-13 0.61 0.43 0.43 0.04 0.01 54-14 0.60 0.43 0.43 0.04 0.01 54-15 14.55 14.04 14.04 0.00 0.00 54-16 34.60 26.59 26.59 2.02 0.00 54-17 33.56 30.00 30.00 1.72 0.00 54-18 34.07 28.06 28.06 0.78 0.00 54-19 1.00 0.87 0.87 0.09 0.04 54-20 97.65 78.60 78.60 4.83 0.00 54-21 0.20 0.14 0.14 0.01 0.00 54-22 65.88 60.15 60.15 0.19 0.00 54-23 0.68 0.44 0.44 0.04 0.00 54-24 1.00 0.98 0.98 0.02 0.0 54-25 69.29<	54-10	8.81	8.72	8.72				0.00	0.00
54-13 0.61 0.43 0.43 0.04 0.01 54-14 0.60 0.43 0.43 0.04 0.01 54-15 14.55 14.04 14.04 0.00 0.00 54-16 34.60 26.59 2.02 0.00 54-17 33.56 30.00 30.00 1.72 0.00 54-18 34.07 28.06 28.06 0.78 0.00 54-19 1.00 0.87 0.87 0.09 0.04 54-20 97.65 78.60 78.60 4.83 0.00 54-21 0.20 0.14 0.14 0.01 0.00 54-21 0.20 0.14 0.14 0.01 0.00 54-22 65.88 60.15 60.15 0.19 0.00 54-23 0.68 0.44 0.44 0.04 0.00 54-24 1.00 0.98 0.02 0.00 54-25 69.29 47.07 4.90<	54-11	7.43	7.25	7.25				0.06	0.00
54-14 0.60 0.43 0.43 0.04 0.01 54-15 14.55 14.04 14.04 0.00 0.00 54-16 34.60 26.59 26.59 2.02 0.00 54-17 33.56 30.00 30.00 1.72 0.00 54-18 34.07 28.06 28.06 0.78 0.00 54-19 1.00 0.87 0.09 0.04 54-20 97.65 78.60 78.60 4.83 0.00 54-21 0.20 0.14 0.14 0.01 0.00 54-22 65.88 60.15 60.15 0.19 0.00 54-23 0.68 0.44 0.44 0.04 0.00 54-24 1.00 0.98 0.98 0.02 0.00 54-25 69.29 47.07 47.07 4.90 3.25 54-26 51.34 48.50 48.50 5.73 2.23 54-29 1.00	54-12	0.61	0.46	0.46				0.02	0.00
54-15 14.55 14.04 14.04 0.00 0.00 54-16 34.60 26.59 26.59 2.02 0.00 54-17 33.56 30.00 30.00 1.72 0.00 54-18 34.07 28.06 28.06 0.78 0.09 54-19 1.00 0.87 0.87 0.09 0.04 54-20 97.65 78.60 78.60 4.83 0.00 54-21 0.20 0.14 0.14 0.01 0.00 54-22 65.88 60.15 60.15 0.19 0.00 54-23 0.68 0.44 0.44 0.04 0.00 54-24 1.00 0.98 0.98 0.02 0.00 54-25 69.29 47.07 47.07 4.90 3.25 54-26 51.34 48.50 48.50 1.24 0.00 54-28 69.89 55.06 55.06 5.73 2.23 54-29 1.00 0.96 0.04 0.00 54-31 4.05 0.01 <td>54-13</td> <td>0.61</td> <td>0.43</td> <td>0.43</td> <td></td> <td></td> <td></td> <td>0.04</td> <td>0.01</td>	54-13	0.61	0.43	0.43				0.04	0.01
54-16 34,60 26,59 26,59 2,00 0,00 54-17 33,56 30,00 30,00 1,72 0,00 54-18 34,07 28,06 28,06 0,78 0,00 54-19 1,00 0,87 0,87 0,09 0,04 54-20 97,65 78,60 78,60 4,83 0,00 54-21 0,20 0,14 0,14 0,01 0,00 54-22 65,88 60,15 60,15 0,19 0,00 54-23 0,68 0,44 0,04 0,00 54-24 1,00 0,98 0,98 0,02 0,00 54-25 69,29 47,07 47,07 4,90 3,25 54-26 51,34 48,50 48,50 1,10 5,80 54-28 69,89 55,06 55,06 5,73 2,23 54-29 1,00 0,96 0,04 0,00 54-30 1,00 1,00 0,00 0,00 54-31 4,05 0,01 0,01 0,00	54-14	0.60	0.43	0.43				0.04	0.01
54-17 33.56 30.00 30.00 1.72 0.00 54-18 34.07 28.06 28.06 0.78 0.00 54-19 1.00 0.87 0.87 0.09 0.04 54-20 97.65 78.60 78.60 4.83 0.00 54-21 0.20 0.14 0.14 0.01 0.00 54-22 65.88 60.15 60.15 0.19 0.00 54-23 0.68 0.44 0.44 0.04 0.00 54-24 1.00 0.98 0.98 0.02 0.00 54-25 69.29 47.07 47.07 4.90 3.25 54-26 51.34 48.50 48.50 1.24 0.00 54-27 17.43 10.53 10.53 1.10 5.80 54-28 69.89 55.06 5.73 2.23 54-29 1.00 0.96 0.96 0.04 0.00 54-30 1.00 1.00 0.00 0.51 54-32 31.93 15.63 15.63 <td>54-15</td> <td>14.55</td> <td>14.04</td> <td>14.04</td> <td></td> <td></td> <td></td> <td>0.00</td> <td>0.00</td>	54-15	14.55	14.04	14.04				0.00	0.00
54-18 34.07 28.06 28.06 0.78 0.00 54-19 1.00 0.87 0.87 0.09 0.04 54-20 97.65 78.60 78.60 4.83 0.00 54-21 0.20 0.14 0.14 0.01 0.00 54-22 65.88 60.15 60.15 0.19 0.00 54-23 0.68 0.44 0.44 0.04 0.00 54-24 1.00 0.98 0.98 0.02 0.00 54-25 69.29 47.07 47.07 4.90 3.25 54-26 51.34 48.50 48.50 1.24 0.00 54-27 17.43 10.53 10.53 1.10 5.80 54-28 69.89 55.06 55.73 2.23 54-29 1.00 0.96 0.04 0.00 54-31 4.05 0.01 0.0 0.00 54-32 31.93 15.63 15.63 1.63 10.05 54-33 1.00 0.74 0.74 0.02	54-16	34.60	26.59	26.59				2.02	0.00
54-19 1.00 0.87 0.87 0.09 0.04 54-20 97.65 78.60 78.60 4.83 0.00 54-21 0.20 0.14 0.14 0.01 0.00 54-22 65.88 60.15 60.15 0.19 0.00 54-23 0.68 0.44 0.44 0.04 0.00 54-24 1.00 0.98 0.98 0.02 0.00 54-25 69.29 47.07 47.07 4.90 3.25 54-26 51.34 48.50 48.50 1.24 0.00 54-27 17.43 10.53 1.10 5.80 54-28 69.89 55.06 57.73 2.23 54-29 1.00 0.96 0.04 0.00 54-30 1.00 1.00 0.00 0.00 54-31 4.05 0.01 0.01 - 0.00 0.51 54-32 31.93 15.63 15.63 1.63 10.05 54-33 1.00 0.74 0.74 0.02	54-17	33.56	30.00	30.00				1.72	0.00
54-20 97.65 78.60 78.60 4.83 0.00 54-21 0.20 0.14 0.14 0.01 0.00 54-22 65.88 60.15 60.15 0.19 0.00 54-23 0.68 0.44 0.44 0.04 0.02 54-24 1.00 0.98 0.98 0.02 0.00 54-25 69.29 47.07 47.07 4.90 3.25 54-26 51.34 48.50 48.50 1.24 0.00 54-27 17.43 10.53 10.53 1.10 5.80 54-28 69.89 55.06 55.06 5.73 2.23 54-29 1.00 0.96 0.04 0.00 54-30 1.00 1.00 0.00 0.00 54-31 4.05 0.01 0.01 - 0.00 0.51 54-32 31.93 15.63 15.63 1.63 10.05 54-33 1.00 0.74 0.74 0.02 0.00 54-34 28.43 25.41	54-18	34.07	28.06	28.06				0.78	0.00
54-21 0.20 0.14 0.14 0.01 0.00 54-22 65.88 60.15 60.15 0.19 0.00 54-23 0.68 0.44 0.44 0.04 0.00 54-24 1.00 0.98 0.98 0.02 0.00 54-25 69.29 47.07 47.07 4.90 3.25 54-26 51.34 48.50 48.50 1.24 0.00 54-27 17.43 10.53 10.53 1.10 5.80 54-28 69.89 55.06 55.06 5.73 2.23 54-29 1.00 0.96 0.96 0.04 0.00 54-30 1.00 1.00 1.00 0.00 0.00 54-31 4.05 0.01 0.01 - 0.00 0.51 54-32 31.93 15.63 15.63 1.63 10.05 54-33 1.00 0.74 0.74 0.02 0.00 54-34 28.43 25.41 25.41 0.75 0.00 54-35	54-19	1.00	0.87	0.87				0.09	0.04
54-22 65.88 60.15 60.15 0.19 0.00 54-23 0.68 0.44 0.04 0.00 0.00 54-24 1.00 0.98 0.98 0.02 0.00 54-25 69.29 47.07 47.07 4.90 3.25 54-26 51.34 48.50 48.50 1.24 0.00 54-27 17.43 10.53 10.53 1.10 5.80 54-28 69.89 55.06 55.06 5.73 2.23 54-29 1.00 0.96 0.04 0.00 54-30 1.00 1.00 1.00 0.00 0.00 54-31 4.05 0.01 0.01 - 0.00 0.51 54-32 31.93 15.63 15.63 1.63 10.05 54-33 1.00 0.74 0.74 0.02 0.00 54-34 28.43 25.41 25.41 0.75 0.00 54-35 66.49 47.53 47.53 4.95 3.10 54-36 64.74	54-20	97.65	78.60	78.60				4.83	0.00
54-23 0.68 0.44 0.44 0.04 0.00 54-24 1.00 0.98 0.98 0.02 0.00 54-25 69.29 47.07 47.07 4.90 3.25 54-26 51.34 48.50 48.50 1.24 0.00 54-27 17.43 10.53 10.53 1.10 5.80 54-28 69.89 55.06 55.73 2.23 54-29 1.00 0.96 0.04 0.00 54-30 1.00 1.00 1.00 0.00 0.00 54-31 4.05 0.01 0.01 - 0.00 0.51 54-32 31.93 15.63 15.63 1.63 10.05 54-33 1.00 0.74 0.74 0.02 0.00 54-34 28.43 25.41 25.41 0.75 0.00 54-35 66.49 47.53 47.53 4.95 3.10 54-36 64.74 46.92 46.92 3.21 0.00 54-37 36.21 23.28	54-21	0.20	0.14	0.14				0.01	0.00
54-24 1.00 0.98 0.98 0.02 0.00 54-25 69.29 47.07 47.07 4.90 3.25 54-26 51.34 48.50 48.50 1.24 0.00 54-27 17.43 10.53 1.10 5.80 54-28 69.89 55.06 57.3 2.23 54-29 1.00 0.96 0.96 0.04 0.00 54-30 1.00 1.00 0.00 0.00 0.00 54-31 4.05 0.01 0.01 - 0.00 0.51 54-32 31.93 15.63 15.63 1.63 10.05 54-33 1.00 0.74 0.74 0.02 0.00 54-34 28.43 25.41 25.41 0.75 0.00 54-35 66.49 47.53 47.53 4.95 3.10 54-36 64.74 46.92 46.92 3.21 0.00 54-37 36.21 23.28 23.28 0.96 0.00 54-38 33.90 30.08	54-22	65.88	60.15	60.15				0.19	0.00
54-25 69.29 47.07 47.07 4.90 3.25 54-26 51.34 48.50 48.50 1.24 0.00 54-27 17.43 10.53 1.10 5.80 54-28 69.89 55.06 55.06 5.73 2.23 54-29 1.00 0.96 0.04 0.00 54-30 1.00 1.00 0.00 0.00 54-31 4.05 0.01 0.01 - 0.00 0.51 54-32 31.93 15.63 15.63 1.63 10.05 54-33 1.00 0.74 0.74 0.02 0.00 54-34 28.43 25.41 25.41 0.75 0.00 54-35 66.49 47.53 47.53 4.95 3.10 54-36 64.74 46.92 46.92 3.21 0.00 54-37 36.21 23.28 23.28 0.96 0.00 54-39 35.07 23.37 23.37 2.43 4.58 54-40 0.65 0.65 0.65 <td>54-23</td> <td>0.68</td> <td>0.44</td> <td>0.44</td> <td></td> <td></td> <td></td> <td>0.04</td> <td>0.00</td>	54-23	0.68	0.44	0.44				0.04	0.00
54-26 51.34 48.50 48.50 1.24 0.00 54-27 17.43 10.53 10.53 1.10 5.80 54-28 69.89 55.06 55.06 5.73 2.23 54-29 1.00 0.96 0.04 0.00 54-30 1.00 1.00 0.00 0.00 54-31 4.05 0.01 0.01 - 0.00 0.51 54-32 31.93 15.63 15.63 1.63 10.05 54-33 1.00 0.74 0.74 0.02 0.00 54-34 28.43 25.41 25.41 0.75 0.00 54-35 66.49 47.53 47.53 4.95 3.10 54-36 64.74 46.92 46.92 3.21 0.00 54-37 36.21 23.28 23.28 0.96 0.00 54-39 35.07 23.37 23.37 2.43 4.58 54-40 0.65 0.65 0.65 0.00 0.00	54-24	1.00	0.98	0.98				0.02	0.00
54-27 17.43 10.53 10.53 1.10 5.80 54-28 69.89 55.06 55.06 5.73 2.23 54-29 1.00 0.96 0.96 0.04 0.00 54-30 1.00 1.00 1.00 0.00 0.00 54-31 4.05 0.01 0.01 - 0.00 0.51 54-32 31.93 15.63 15.63 1.63 10.05 54-33 1.00 0.74 0.74 0.02 0.00 54-34 28.43 25.41 25.41 0.75 0.00 54-35 66.49 47.53 47.53 4.95 3.10 54-36 64.74 46.92 46.92 3.21 0.00 54-37 36.21 23.28 23.28 0.96 0.00 54-38 33.90 30.08 30.08 0.97 0.00 54-39 35.07 23.37 23.37 2.43 4.58 54-40 0.65 0.65 0.65 0.00 0.00	54-25	69.29	47.07	47.07				4.90	3.25
54-28 69.89 55.06 55.06 5.73 2.23 54-29 1.00 0.96 0.04 0.00 54-30 1.00 1.00 0.00 0.00 54-31 4.05 0.01 0.01 - 0.00 0.51 54-32 31.93 15.63 15.63 1.63 10.05 54-33 1.00 0.74 0.74 0.02 0.00 54-34 28.43 25.41 25.41 0.75 0.00 54-35 66.49 47.53 47.53 4.95 3.10 54-36 64.74 46.92 46.92 3.21 0.00 54-37 36.21 23.28 23.28 0.96 0.00 54-38 33.90 30.08 0.97 0.00 54-39 35.07 23.37 23.37 2.43 4.58 54-40 0.65 0.65 0.65 0.00 0.00	54-26	51.34	48.50	48.50				1.24	0.00
54-29 1.00 0.96 0.96 0.04 0.00 54-30 1.00 1.00 1.00 0.00 0.00 54-31 4.05 0.01 0.01 - 0.00 0.51 54-32 31.93 15.63 15.63 1.63 10.05 54-33 1.00 0.74 0.74 0.02 0.00 54-34 28.43 25.41 25.41 0.75 0.00 54-35 66.49 47.53 47.53 4.95 3.10 54-36 64.74 46.92 46.92 3.21 0.00 54-37 36.21 23.28 23.28 0.96 0.00 54-38 33.90 30.08 30.08 0.97 0.00 54-39 35.07 23.37 23.37 2.43 4.58 54-40 0.65 0.65 0.65 0.00 0.00	54-27	17.43	10.53	10.53				1.10	5.80
54-30 1.00 1.00 1.00 0.00 0.00 54-31 4.05 0.01 0.01 - 0.00 0.51 54-32 31.93 15.63 15.63 1.63 10.05 54-33 1.00 0.74 0.74 0.02 0.00 54-34 28.43 25.41 25.41 0.75 0.00 54-35 66.49 47.53 47.53 4.95 3.10 54-36 64.74 46.92 46.92 3.21 0.00 54-37 36.21 23.28 23.28 0.96 0.00 54-38 33.90 30.08 30.08 0.97 0.00 54-39 35.07 23.37 23.37 2.43 4.58 54-40 0.65 0.65 0.65 0.00 0.00	54-28	69.89	55.06	55.06				5.73	2.23
54-30 1.00 1.00 1.00 0.00 0.00 54-31 4.05 0.01 0.01 - 0.00 0.51 54-32 31.93 15.63 15.63 1.63 10.05 54-33 1.00 0.74 0.74 0.02 0.00 54-34 28.43 25.41 25.41 0.75 0.00 54-35 66.49 47.53 47.53 4.95 3.10 54-36 64.74 46.92 46.92 3.21 0.00 54-37 36.21 23.28 23.28 0.96 0.00 54-38 33.90 30.08 30.08 0.97 0.00 54-39 35.07 23.37 23.37 2.43 4.58 54-40 0.65 0.65 0.65 0.00 0.00		1.00						0.04	
54-31 4.05 0.01 0.01 - 0.00 0.51 54-32 31.93 15.63 15.63 10.05 54-33 1.00 0.74 0.74 0.02 0.00 54-34 28.43 25.41 25.41 0.75 0.00 54-35 66.49 47.53 47.53 4.95 3.10 54-36 64.74 46.92 46.92 3.21 0.00 54-37 36.21 23.28 23.28 0.96 0.00 54-38 33.90 30.08 30.08 0.97 0.00 54-39 35.07 23.37 23.37 2.43 4.58 54-40 0.65 0.65 0.65 0.00 0.00									
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54-34 28.43 25.41 25.41 0.75 0.00 54-35 66.49 47.53 47.53 4.95 3.10 54-36 64.74 46.92 46.92 3.21 0.00 54-37 36.21 23.28 23.28 0.96 0.00 54-38 33.90 30.08 0.97 0.00 54-39 35.07 23.37 23.37 2.43 4.58 54-40 0.65 0.65 0.65 0.00 0.00	54-32	31.93	15.63	15.63				1.63	10.05
54-34 28.43 25.41 25.41 0.75 0.00 54-35 66.49 47.53 47.53 4.95 3.10 54-36 64.74 46.92 46.92 3.21 0.00 54-37 36.21 23.28 23.28 0.96 0.00 54-38 33.90 30.08 0.97 0.00 54-39 35.07 23.37 23.37 2.43 4.58 54-40 0.65 0.65 0.65 0.00 0.00		1.00							0.00
54-35 66.49 47.53 47.53 4.95 3.10 54-36 64.74 46.92 46.92 3.21 0.00 54-37 36.21 23.28 23.28 0.96 0.00 54-38 33.90 30.08 0.97 0.00 54-39 35.07 23.37 23.37 2.43 4.58 54-40 0.65 0.65 0.65 0.00 0.00									
54-36 64.74 46.92 46.92 3.21 0.00 54-37 36.21 23.28 23.28 0.96 0.00 54-38 33.90 30.08 30.08 0.97 0.00 54-39 35.07 23.37 23.37 2.43 4.58 54-40 0.65 0.65 0.65 0.00 0.00									
54-37 36.21 23.28 23.28 0.96 0.00 54-38 33.90 30.08 30.08 0.97 0.00 54-39 35.07 23.37 23.37 2.43 4.58 54-40 0.65 0.65 0.65 0.00 0.00									
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54-39 35.07 23.37 23.37 2.43 4.58 54-40 0.65 0.65 0.65 0.00 0.00									
54-40 0.65 0.65 0.65 0.00 0.00									



54-42	35.24	18.01	18.01		1.87	1.96
54-43	26.12	25.36	25.36		0.06	0.00
54-44	0.12	0.12	0.12		0.00	0.00
54-45	0.08	0.08	0.08		0.00	0.00
54-46	2.03	2.03	2.03		0.00	0.00
54-47	2.00	1.90	1.90		0.09	0.00
54-48	2.01	2.00	2.00		0.01	0.00
54-49	1.00	0.99	0.99		0.01	0.00
54-50	0.96	0.84	0.84		0.09	0.04
54-51	69.19	57.33	57.33		4.47	0.00
54-52	5.42	0.43	0.43		0.00	0.00
54-53	15.48	7.78	7.78		0.34	0.00
54-54	46.76	32.61	32.61		3.39	5.07
54-55	8.34	3.63	3.63		0.38	0.35
54-56	1.64	0.00	0.00			
54-57	0.22	0.22	0.22		0.00	0.00
54-58	0.33	0.33	0.33		0.00	0.00
54-59	2.93	2.24	2.24		0.16	0.00
54-60	0.04	0.04	0.04		0.00	0.00
54-61	6.38	0.00	0.00		0.00	
SUB-TOTAL	1110.36	846.37	846.37		51.46	37.07

Road reserve			
HARDYS ROAD	6.48	0.00	0.00
CLYDE FIVE WAYS ROAD	6.58	0.00	0.00
TUCKERS ROAD	7.11	0.00	0.00
PATTERSONS ROAD	6.55	0.00	0.00
BELLS ROAD	3.63	1.22	1.22
RAILWAY ROAD	2.15	0.00	0.00
VALETTA ROAD	0.79	0.00	0.00
OROYA GROVE	0.63	0.00	0.00
POUND ROAD	1.52	1.23	1.23
RAIL CORRIDOR	5.76	0.00	0.00
TWYFORD ROAD	2.35	1.83	1.83
SUB-TOTAL	43.54	4.28	4.28
TOTAL	1153.90	850.65	850.65



PSP 57.1- CASE	Y FIELDS S	SOUTH			LAND VALUT	IONS		
PSP PROPERTY ID	TOTAL AREA (Ha	TOTAL NET DEVELOPABLE AREA (HECTARES)	TOTAL NET DEVELOPABLE AREA RESIDENTIAL (HECTARES)	TOTAL NET DEVELOPABLE AREA EMPLOYMENT(HECTARES)	EMPLOYMENT 'UNDER' PROVISION	EMPLOYMENT 'OVER' PROVISION	RESIDENTIAL 'UNDER' PROVISION	RESIDENTIAL 'OVER' PROVISION
57-1	11.96	6.70	6.70				0.17	1.92
57-2	11.94	7.67	7.67				0.00	0.00
57-3	9.71	9.37	9.37				0.00	0.00
57-4	9.61	9.53	9.53				0.04	0.00
57-5	24.39	20.55	20.55				0.03	0.00
57-6	40.47	36.60	36.60				0.19	0.00
57-7	1.09	1.09	1.09				0.00	0.00
rail corridor	0.89	0.00	0.00				0.00	0.00
TOTALS	110.06	91.52	91.52				0.43	1.92

Amended by C208

*Note - totals for these columns will not necessarily match those in Table 8 (Summary Land Use Budget) as this table does not include certain items as relevant such as existing road and rail reserves.



6.0 OTHER INFORMATION

6.1 Acronyms

'the Act' Planning and Environment Act 1987

AHD Australian Height Datum

AFL Australian Football League ovals

CAD Central Activities District

CIL Community Infrastructure Levy

DCP Development Contributions Plan

DEECD Department of Education & Early Childhood Development

DIL Development Infrastructure Levy

DPCD Department of Planning & Community Development

DoT Department of Transport

DSE Department of Sustainability & Environment

ENDA Employment Net Developable Area

GAA Growth Areas Authority
GDA Gross Developable Area

Ha Hectare

NDA

LTC Local Town Centre

MCA Main Catchment Area

MCH Maternal & Child Health

MSS Municipal Strategic Statement

MTC Major Town Centre

NDHa Net Developable Hectare

PPTN Principle Public Transport Network

Net Developable Area

PSP Precinct Structure Plan

PTC Principle Town Centre

P-6 School Prep to Year 6

P-12 State School Prep to Year 12

RNDA Residential Net Developable Area

Sqm Square Metres

UGB Urban Growth Boundary

UGZ Urban Growth Zone



6.2 Glossary

Active Open Space

Land set aside for the specific purpose of formal/organised club based sports.

Activity Centre

See 'Town Centre'.

Arterial Road

A higher order road providing for moderate to high volumes at relatively high speeds typically used for intersuburban journeys and linking to freeways, and identified under the Road Management Act 2004. All declared arterials are managed by the State Government.

Co-Location

Adjoining land uses to enable complementary programs, activities and services and shared use of resources and facilities. For example, the co-location of schools and active open space.

Community Facilities

Infrastructure provided by government or non-government organisations for accommodating a range of community support services, programs and activities. This includes facilities for education and learning (e.g. government and non-government schools, universities, adult learning centres); early years (e.g. preschool, maternal and child health, childcare); health and community services (eg. hospitals, aged care, doctors, dentists, family and youth services, specialist health services); community (e.g. civic centres, libraries, neighbourhood houses); arts and culture (e.g. galleries, museums, performance space); sport, recreation and leisure (e.g. swimming pools); justice (e.g. law courts); voluntary and faith (e.g. places of worship) and emergency services (e.g. police, fire and ambulance stations).

Connector Street

A lower order street providing for low to moderate volumes and moderate speeds linking local streets to the arterial network Managed by the relevant local council. (See Table C1 in clause 56)

Development Contributions Plan

Document that sets out the contributions expected from each individual landowner to fund infrastructure and services. Refer to Part 3B of the Planning and Environment Act 1987.

Encumbered Land / Service Open Space

Land that is constrained for development purposes. Includes easements for power/transmission lines, sewers, gas, waterways, drainage, retarding basins/wetlands, landfill, conservation and heritage areas. This land may be used for a range of activities (e.g. walking trails).

Freeway

A high speed and high volume road with the highest level of access control and typically used for longer distance journeys across the metropolitan area and country Victoria. All freeways are managed by VicRoads.

Growth Area

Areas on the fringe of metropolitan Melbourne around major regional transport corridors that are designated for large-scale change, over many years from rural to urban use. Melbourne has six growth areas called Casey-Cardinia; Hume; Melton-Caroline Springs; Whittlesea, Wyndham and Mitchell.

Growth Corridor Plan

Government document that sets long-term strategic planning direction to guide the creation of a more sustainable community in the growth areas.

High Density Housing

Housing with an average density of more than 30 dwellings per net developable hectare.

Housing Density (Net)

The number of houses divided by net developable area



Linear Open Space Network

Corridors of open space, mainly along waterways that link together, forming a network.

Land Budget Table

A table setting out the total precinct area, net developable area and constituent land uses proposed within the precinct.

Lot

A part (consisting of one or more pieces) of any land (except a road, a reserve, or common property) shown on a plan, which can be disposed of separately and includes a unit or accessory unit on a registered plan of strata subdivision and a lot or accessory lot on a registered cluster plan.

Lower Density Housing

Housing with an average density of less than 10 dwellings per hectare.

Major Employment Area

Areas identified on the Growth Corridor Plan for economic and employment growth.

Major Town Centre

Town centres that have similar characteristics to Principal Town Centres, but serve smaller catchment areas.

Medium Density Housing

Housing with an average density of 16 to 30 dwellings per net developable hectare.

Native Vegetation

Plants that are indigenous to Victoria, including trees, shrubs, herbs, and grasses.

Net Developable Area

Total amount of land within the precinct that is made available for development of housing and employment buildings, including lots, local and connector streets. Total precinct area minus community facilities, schools and educational facilities and open space, arterial roads and encumbered land. Small local parks defined at subdivision stage are included in net developable area.

Net Developable Area - Residential (NDA-R)

As per net developable area but excluding dedicated employment land.

Net Developable Area - Employment (NDA-E)

The net developable area of dedicated employment land but excluding dedicated residential land.

Passive Open Space

Open space that is set aside for parks, gardens, linear corridors, conservation bushlands, nature reserves, public squares and community gardens that are made available for passive recreation, play and unstructured physical activity including walking, cycling, hiking, revitalisation, contemplation and enjoying nature.

Precinct Structure Plan

A statutory document that describes how a precinct or series of sites within a growth area will be developed over time. A precinct structure plan sets out the broad environmental, social and economic parameters for the use and development of land within the precinct.

Principal Public Transport Network

A high-quality public transport network that connects Principal and Major Activity Centres, and comprises the existing radial fixed-rail network, extensions to this radial network and new cross-town bus routes.

Public Open Space

Land that is set aside in the precinct structure plan for public recreation or public resort, or as parklands, or for similar purposes. Incorporates active and passive open space.



Town Centre

Provide the focus for services, commercial and retail based employment and social interaction. They are where people shop, work, meet, relax and live. They are well-served by public transport, they range in size and intensity of use. In the growth areas, these are referred to as principal activity centres, major activity centres, neighbourhood activity centres and local centres.

Urban Growth Boundary

A statutory planning management tool used to set clear limits to metropolitan Melbourne's urban development.

Urban Growth Zone

Statutory zone that applies to land that has been identified for future urban development. The UGZ has four purposes: (1) to manage transition of non-urban land into urban land; (2) to encourage development of well-planned and well-serviced new urban communities in accordance with an overall plan; (3) to reduce the number of development approvals needed in areas where an agreed plan is in place; and (4) to safeguard non-urban land from use and development that could prejudice its future urban development.

7.0 APPENDICES



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7.1 deleted by C208 7.1 ...

Table 14 ...



7.2 Property Specific Land Budget

Amended by C208

PSP 53- Thompsons Road **CREDITED OPEN SPACE** OTHER OPEN **TRANSPORT COMMUNITY FACILITIES SERVICE OPEN SPACE OTHER** FOTAL NET DEVELOPABLE AREA (HECTARES) TOTAL NET DEVELOPABLE AREA RESIDENTIAL (HECTARES) SPACE NET DEVELOPABLE AREA % OF PROPERTY **LOCAL PARKS** TOTAL AREA (HECTARES) **EXISTING ROAD RESERVES** ARTERIAL ROADS PAO TOTALS 53-01 Residential 0.55 0.00 0.00 0.12 0.00 0.00 0.00 0.00 0.43 0.43 78.50% 53-01 Industrial 37.36 0.58 1.01 0.36 0.00 0.00 0.00 7.16 3.17 0.00 0.40 0.95 23.73 23.73 63.51% 53-02 Residential 0.00 0.28 0.00 0.00 0.00 8.24 0.37 0.00 0.95 13.12 13.12 56.72% 53-02 Industrial 0.00 0.00 0.00 0.00 2.07 0.00 17.78 17.78 20.73 0.76 0.12 85.77% 53-03 Residential 39.53 0.06 1.51 0.02 0.00 0.00 0.05 3.41 0.23 3.87 0.61 29.76 29.76 75.29% 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.10 0.05 0.05 34.90% 53-03 Commercial 0.15 53-04 Residential 0.02 0.05 0.00 0.00 0.00 0.00 13.23 2.07 0.00 1.53 24.37 24.37 59.06% 41.26 53-04 Commercial 0.92 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.92 0.92 100.00% 1.91 0.23 1.01 0.05 13.43 13.43 74.71% 53-05 Residential 17 98 0.00 1 29 0.00 0.00 0.00 0.00 0.06 53-05 Commercial 0.00 6.85 0.74 0.00 11.38 51.62% 22.04 0.69 1.79 0.59 0.00 0.00 11.38 1.72 26.36 26.36 91.68% 53-06 Residential 28 75 0.00 0.23 0.00 0.00 0.18 0.00 0.04 0.23 1.72 0.00 0.09 6.35 53-06 Commercial 11 27 0.51 2.39 0.21 0.00 0.00 0.00 6.35 56.37% 3.04 29.34 53-07 Residential 41.65 0.00 1.03 0.32 0.00 0.21 0.00 0.00 6.21 0.00 1.50 29.34 70.45% 0.00 0.58 4.99 53-07 Commercial 7.06 0.00 1.31 0.17 0.00 0.02 0.00 0.00 4.99 70.57% 0.63 53-08 0.63 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.63 100.00% 53-09 42.67 0.00 1.81 0.34 0.00 0.35 0.00 0.00 15.17 0.06 0.29 0.00 1.16 23.47 23.47 55.01% 53-10 1.00 0.00 0.12 0.00 0.00 0.00 0.00 0.00 0.88 0.88 88.50% 53-11 0.96 0.00 0.11 0.00 0.00 0.00 0.00 0.00 0.85 0.85 88.59% 53-12 0.00 0.66 0.00 0.31 0.00 0.00 1.81 1.35 0.00 1.81 42.30 42.30 87.55% 30.25 0.00 0.00 0.00 0.00 2.54 7.52 1.00 16.79 55.50% 53-13 0.00 16.79 0.00 0.00 1.23 2.16 5.48 1.00 29.87 29.87 75.17% 53-14 0.00 0.00 0.00 0.00 53-15 Residential 2.58 0.00 0.16 0.00 0.00 0.08 1.35 0.00 2.72 31.64 38.73 0.00 0.20 31.64 81.70% 0.30 53-15 Commercial 4.64 0.00 0.00 0.00 0.00 0.00 0.00 0.00 4.34 4.34 93.54% 53-16 Residential 38.05 0.00 2.65 0.31 0.00 0.00 0.00 0.00 1.95 33.14 33.14 87.10% 0.00 0.00 0.00 0.00 0.30 9.34 96.89% 53-16 Commercial 9 64 0.00 0.00 0.00 9 34 53-17 0.00 0.00 0.40 100.00% 0.40 0.00 0.00 0.00 0.00 0.00 0.40 4.03 0.00 0.61 24.15 24.15 53-18 Residential 32.13 0.00 0.00 0.70 0.00 1.51 1.13 75.16% 0.00 8.27 53-18 Commercial 0.00 0.00 0.00 0.00 0.00 8.27 98.49% 8.40 0.13 53-19 Residential 0.00 0.41 0.15 0.21 0.01 0.01 1.37% 0.78 0.00 0.00 0.00 0.00

0.00

3.36

3.36

100.00%

53-19 Commercial

0.00

0.00

0.00

0.00

0.00

3.36



				TRAN	SPORT				сомми	NITY FA	ACILITIES			9	SERVICE OPE	n spaci	E		CREDIT	TED OPEI	N SPACE PARKS	OTHER SPA		ОТ	HER	4	٨	⋖	ш
PSP PROPERTY ID	TOTAL AREA (HECTARES)	PAO TOTALS	ARTERIAL ROADS / WIDENINGS TOTALS	DCP FLARING FOR INTERSECTIONS TOTALS	EXISTING ROAD RESERVES	TREE RESERVE	RAILWAY CORRIDOR / EASEMENT	DCP COMMUNITY FACILITIES	DCP INDOOR RECREATION FACILITIES	POTENTIAL GOVERNMENT EDUCATION	EXISTING GOVERNMENT EDUCATION	NON-GOVERNMENT EDUCATION	POWER / GAS EASEMENT	WATERWAY CORRIDOR/ WETLAND / RETARDING	DESALINATION PIPE EASEMENT (+ GAP BETWEEN EASEMENT AND ROAD)	HERITAGE (POST CONTRACT)	HERITAGE (ABORIGINAL)	CONSERVATION (EPBC CATEGORY 1)	LOCAL SPORTSFIELDS	LOCAL PARKS -RESIDENTAL	LOCAL PARKS -EMPLOYMENT	EXISTING LOCAL SPORTFIELDS	REGIONAL SPORTSFIELDS	EXISTING CLYDE TOWNSHIP RZ1 AREA	SUBSTATION	TOTAL NET DEVELOPABLE AREA (HECTARES)	TOTAL NET DEVELOPABLE AREA RESIDENTIAL (HECTARES)	TOTAL NET DEVELOPABLE AREA EMPLOYMENT(HECTARES)	NET DEVELOPABLE AREA % OF PROPERTY
53-20 Residential	15.72	0.00	0.00	0.00	0.00			0.00	0.00					0.56					0.00	0.30						14.86	14.86		94.53%
53-20 Commercial	1.65	0.00	0.00	0.00	0.00			0.00	0.00										0.00							1.65		1.65	100.00%
53-21 Residential	1.42	0.00	0.00	0.03	0.00			0.00	0.00										0.00							1.39	1.39		97.82%
53-21 Commercial	2.64	0.00	0.00	0.05	0.00			0.00	0.00										0.00							2.59		2.59	98.22%
53-22	14.57	0.00	0.00	0.04	0.00			0.70	0.00	2.00				0.52					3.52							7.79	7.79		53.44%
53-23	32.58	0.00	0.00	0.00	0.00			0.00	0.00	1.50				3.16					5.39	0.51						22.02	22.02		67.59%
53-24	15.27	1.57	0.00	0.31	0.00			0.00	0.00					1.08					0.00	0.50						11.82	11.82		77.37%
53-25 Residential	0.22	0.14	0.00	0.08	0.00			0.00	0.00										0.00							0.00	0.00		0.00%
53-25 Commercial	0.12	0.00	0.00	0.00	0.00			0.00	0.00										0.00							0.12		0.12	100.00%
53-26 Commercial	0.13	0.00	0.00	0.01	0.00			0.00	0.00										0.00							0.12		0.12	92.89%
53-27 Commercial	0.10	0.00	0.00	0.01	0.00			0.00	0.00										0.00							0.09		0.09	91.48%
53-28 Commercial	0.08	0.00	0.00	0.01	0.00			0.00	0.00										0.00							0.08		0.08	93.99%
53-29 Commercial	0.08	0.00	0.00	0.00	0.00			0.00	0.00										0.00							0.08		0.08	95.63%
53-30 Commercial	0.07	0.00	0.00	0.00	0.00			0.00	0.00										0.00							0.07		0.07	99.86%
53-31 Commercial	0.07	0.00	0.00	0.00	0.00			0.00	0.00										0.00							0.07		0.07	100.00%
53-32 Commercial	0.07	0.00	0.00	0.00	0.00			0.00	0.00										0.00							0.07		0.07	100.00%
53-33 Commercial	0.07	0.00	0.00	0.00	0.00			0.00	0.00										0.00							0.07		0.07	100.00%
53-33a Commercial	0.07	0.00	0.00	0.00	0.00			0.00	0.00										0.00							0.07		0.07	97.99%
SUB-TOTAL	677.03	3.57	19.38	4.66	0.00	1.06	0.00	3.14	1.60	7.02	0.00	0.00	55.32	34.73	6.90	0.00	0.00	0.00	25.93	16.57	1.77	0.00	0.00	0.00	0.95	494.43	398.83	95.60	73.03%
Road Reserve																													
53-34 (Pound Road)	6.88	0.02	0.00	0.00	1.91	0.70		0.00	0.00				0.53	0.53	0.12				0.00	0.53						2.56	2.56		37.20%
53-35 (Tuckers Road reserve)	1.69	0.00	0.00	0.00	1.01			0.00	0.00										0.00							0.68	0.68		40.29%
53-36 (Thompsons Rd) plus triangle	7.79	0.00	0.00	0.00	7.31			0.00	0.00										0.00							0.48	0.48		6.19%
53-37 (Berwick Cranbourne Rd)	1.93	0.00	0.00		1.93			0.00											0.00							0.00	0.00		0.00%
SUB-TOTAL	18.30	0.02	0.00	0.00	12.16	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.53	0.12	0.00	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00	0.00	3.72	3.72	0.00	20.36%
TOTALS PSP 1053	695.33	3.59	19.38	4.66	12.16	1.76	0.00	3.14	1.60	7.02	0.00	0.00	55.85	35.25	7.02	0.00	0.00	0.00	25.93	17.10	1.77	0.00	0.00	0.00	0.95	498.15	402.56	95.60	71.64%



PSP 54 - Clyde Creek																													
				TRANS	SPORT				COMMI	JNITY FA	ACILITIES			2	SERVICE OP	en spac	E			DITED O SPACE LOCAL		OTHER SPA		ОТН	HER	CTARES)	DENTIAL	Y	OF PROPERTY
PSP PROPERTY ID	TOTAL AREA (HECTARES)	PAO TOTALS	ARTERIAL ROADS / WIDENINGS TOTALS	DCP FLARING FOR INTERSECTIONS TOTALS	EXISTING ROAD RESERVES	TREE RESERVE	RAILWAY CORRIDOR / EASEMENT	DCP COMMUNITY FACILITIES	DCP INDOOR RECREATION FACILITIES	POTENTIAL GOVERNMENT EDUCATION	EXISTING GOVERNMENT EDUCATION	NON-GOVERNIMENT EDUCATION	POWER / GAS EASEMENT	WATERWAY CORRIDOR/ WETLAND / RETARDING	DESALINATION PIPE EASEMENT (+ GAP BETWEEN EASEMENT AND ROAD)	HERITAGE (POST CONTRACT)	HERITAGE (ABORIGINAL)	CONSERVATION (EPBC CATEGORY 1)	LOCAL SPORTSFIELDS	LOCAL PARKS -RESIDENTAL	LOCAL PARKS -EMPLOYMENT	EXISTING LOCAL SPORTFIELDS	REGIONAL SPORTSFIELDS	EXISTING CLYDE TOWNSHIP RZ1 AREA	SUBSTATION	TOTAL NET DEVELOPABLE AREA (HECTARES)	TOTAL NET DEVELOPABLE AREA RESIDENTIAL (HECTARES)	TOTAL NET DEVELOPABLE AREA EMPLOYMENT(HECTARES)	NET DEVELOPABLE AREA % OF PRC
54-1	8.39	0.87	0.26	0.15	0.00			0.00	0.00										0.00							7.11	7.11		84.76%
54-2	8.49	0.00	0.30	0.00	0.00			0.00	0.00										0.00	1.20						7.00	7.00		82.40%
54-3	8.51	0.00	0.39	0.00	0.00			0.00	0.00					1.57					0.00							6.55	6.55		77.01%
54-4	7.64	0.00	0.21	0.00	0.00			0.00	0.00					2.03					0.00	1.17						4.22	4.22		55.34%
54-5	0.86	0.00	0.15	0.01	0.00			0.00	0.00										0.00							0.70	0.70		81.47%
54-6	18.26	0.00	0.60	0.11	0.00			0.00	0.00					2.99					0.00	0.99						13.57	13.57		74.32%
54-7	16.13	0.00	0.54	0.17	0.00			0.00	0.00										0.00							15.42	15.42		95.58%
54-8 54-9	0.40	0.08	0.00	0.00	0.00			0.00	0.00										0.00							0.32	0.32		79.76% 80.09%
54-10	8.81	0.12	0.00	0.00	0.00			0.00	0.00										0.00							8.72	8.72		99.00%
54-10	7.43	0.09	0.00	0.00	0.00			0.00	0.00										0.00							7.25	7.25		97.53%
54-12	0.61	0.13	0.00	0.02	0.00			0.00	0.00										0.00							0.46	0.46		76.44%
54-13	0.61	0.12	0.00	0.06	0.00			0.00	0.00										0.00							0.43	0.43		70.12%
54-14	0.60	0.12	0.00	0.05	0.00			0.00	0.00										0.00							0.43	0.43		70.78%
54-15	14.55	0.01	0.00	0.00	0.00			0.00	0.00										0.00	0.50						14.04	14.04		96.46%
54-16	34.60	0.00	0.00	0.07	0.00			0.00	0.00					5.48					1.95	0.50						26.59	26.59		76.86%
54-17	33.56	0.00	1.48	0.24	0.00			0.00	0.00										0.00	1.84						30.00	30.00		89.42%
54-18	34.07	0.00	0.53	0.01	0.00			0.00	0.00	3.45									0.23	1.79						28.06	28.06		82.36%
54-19	1.00	0.00	0.13	0.00	0.00			0.00	0.00										0.00							0.87	0.87		87.20%
54-20	97.65	0.00	4.19	0.26	0.00	0.47		0.00	0.00	4.91		3.50		0.67		0.32			0.38	4.35						78.60	78.60		80.49%
54-21	0.20	0.05	0.00	0.01	0.00			0.00	0.00										0.00							0.14	0.14		69.99%
54-22	65.88	1.47	0.00	0.19	0.00			0.00	0.00										0.00	4.07						60.15	60.15		91.30%
54-23	0.68	0.20	0.00	0.04	0.00			0.00	0.00										0.00							0.44	0.44		64.95%
54-24	1.00	0.00	0.00	0.02	0.00			0.00	0.00										0.00							0.98	0.98		98.00%
54-25	69.29	0.00	0.16	0.16	0.00			0.70	0.00	3.50				9.31					7.13	1.27						47.07	47.07		67.93%
54-26	51.34	0.00			0.00			0.00	0.00										0.00	1.60						48.50	48.50		94.46%
54-27	17.43	0.00	0.00	0.00	0.00			0.00	0.00										6.90							10.53	10.53		60.43%
54-28	69.89	0.00	1.60		0.00			0.70		3.50				1.65					5.52	1.72						55.06	55.06		78.78%
54-29	1.00	0.00			0.00				0.00										0.00							0.96	0.96		95.71%
54-30	1.00	0.00	0.00	0.00	0.00			0.00	0.00										0.00							1.00	1.00		100.00%
54-31	4.05	0.40	0.32		0.00			0.00	0.00										0.00			3.13				0.01	0.01		0.36%
54-32	31.93	0.99	0.50		0.00				0.00	3.50									10.32			0.13				15.63	15.63		48.96%
54-33	1.00	0.24	0.00		0.00			0.00	0.00										0.00	2.5-						0.74	0.74		73.65%
54-34	28.43	0.00	0.75		0.00			0.00	0.00					0.00					0.00							25.41	25.41		89.39%
54-35	66.49	0.00			0.00			0.00	0.00					9.98		0.00		2.52	5.19							47.53	47.53		71.48%
54-36	64.74	0.00	3.06		0.00			0.00	0.00					9.02		0.90		2.53	0.00	2.15						46.92	46.92		72.48%
54-37	36.21	0.00	0.90		0.00			0.00	0.00					2.12				9.86		1.00						23.28	23.28		64.28%
54-38	33.90	0.00	0.83	0.14	0.00			0.00	0.00					1.85					0.00	1.00						30.08	30.08		88.73%



				TRAN	SPORT			,	сомми	NITY FA	CILITIES			SI	ERVICE OP	en spac	Œ			DITED O SPACE LOCAL		OTHER SPA		ОТН	IER	:TARES)	RESIDENTIAL	٨	PERTY
PSP PROPERTY ID	TOTAL AREA (HECTARES)	PAO TOTALS	ARTERIAL ROADS / WIDENINGS TOTALS	DCP FLARING FOR INTERSECTIONS TOTALS	EXISTING ROAD RESERVES	TREE RESERVE	RAILWAY CORRIDOR / EASEMENT	DCP COMMUNITY FACILITIES	DCP INDOOR RECREATION FACILITIES	POTENTIAL GOVERNMENT EDUCATION	EXISTING GOVERNMENT EDUCATION	NON-GOVERNMENT EDUCATION	POWER / GAS EASEMENT	WATERWAY CORRIDOR/WETLAND / RETARDING	DESALINATION PIPE EASEMENT (+ GAP BETWEEN EASEMENT AND ROAD)	HERITAGE (POST CONTRACT)	HERITAGE (ABORIGINAL)	CONSERVATION (EPBC CATEGORY 1)	LOCAL SPORTSHELDS	LOCAL PARKS -RESIDENTAL	LOCAL PARKS -EMPLOYMENT	EXISTING LOCAL SPORTFIELDS	REGIONAL SPORTSFIELDS	EXISTING CLYDE TOWNSHIP RZ1 AREA	SUBSTATION	TOTAL NET DEVELOPABLE AREA (HECTARES)	TOTAL NET DEVELOPABLE AREA RESIC (HECTARES)	TOTAL NET DEVELOPABLE AREA EMPLOYMENT(HECTARES)	NET DEVELOPABLE AREA % OF PROPERTY
54-39	35.07	0.16	0.00	0.00	0.00			0.94	6.06					2.78					0.00	1.75						23.37	23.37		66.64%
54-40	0.65	0.00	0.00	0.00	0.00			0.00	0.00										0.00							0.65	0.65		100.00%
54-41	1.11	0.00	0.00	0.00	0.00			0.00	0.00										0.00							1.11	1.11		100.00%
54-42	35.24	0.00	0.00	0.10	0.00			0.55	0.00	8.40				2.72		1.65			3.18	0.63						18.01	18.01		51.11%
54-43	26.12	0.00	0.00	0.06	0.00			0.00	0.00										0.00	0.69						25.36	25.36		97.10%
54-44	0.12	0.00	0.00	0.00	0.00			0.00	0.00										0.00							0.12	0.12		100.00%
54-45	0.08	0.00	0.00	0.00	0.00			0.00	0.00										0.00							0.08	0.08		100.00%
54-46	2.03	0.00	0.00	0.00	0.00			0.00	0.00										0.00							2.03	2.03		100.00%
54-47	2.00	0.00	0.00	0.09	0.00			0.00	0.00										0.00							1.90	1.90		95.37%
54-48	2.01	0.00	0.00	0.01	0.00			0.00	0.00										0.00							2.00	2.00		99.35%
54-49	1.00	0.00	0.00	0.01	0.00			0.00	0.00										0.00							0.99	0.99		99.30%
54-50 54-51	0.96 69.19	0.00	0.00 1.06	0.12	0.00			0.00	0.00	0.58				4.23		0.38		0.01	2.47	2.19						0.84 57.33	0.84 57.33		87.06% 82.87%
54-52	5.42	0.00	0.00	0.23	0.00			0.00	0.00	0.56				1.40		0.36		3.59	0.00	2.13						0.43	0.43		7.89%
54-53	15.48	0.00	0.00	0.00	0.00			0.00	0.00					2.96				4.39	0.00							7.78	7.78		50.30%
54-54	46.76	0.00	0.00	0.00	0.00			0.00	0.00	2.92				2.30				1.77	8.33	1.00						32.61	32.61		69.73%
54-55	8.34	0.99	0.00	0.03	0.00			0.70	0.00	2.32	1.80			1.19				1.77	0.00	1.00						3.63	3.63		43.48%
54-56	1.64	0.00	0.00	0.00	0.00			0.00	0.00		1.00			1.13		1.64			0.00							0.00	0.00		0.00%
54-57	0.22	0.00	0.00	0.00	0.00			0.00	0.00							1.04			0.00							0.22	0.22		100.00%
54-58	0.33	0.00	0.00	0.00	0.00			0.00	0.00										0.00							0.33	0.33		100.00%
54-59	2.93	0.22	0.00	0.16	0.00			0.00	0.00										0.00	0.30						2.24	2.24		76.50%
54-60	0.04	0.00	0.00	0.00	0.00			0.00	0.00										0.00							0.04	0.04		100.00%
54-61	6.38	0.00	0.00	0.00	0.00			0.00	0.00										0.00					6.38		0.00	0.00		0.00%
SUB-TOTAL	1110.36	6.39	22.03	3.85	0.00	0.47	0.00	4.99	6.06	30.76	1.80	3.50	0.00	61.95	0.00	4.89	0.00	22.16	51.60	33.91	0.00	3.26	0.00	6.38	0.00	846.37	846.37	0.00	76.22%
Road Reserve																													
Hardys Road	6.48	0.00	0.00	0.00	6.48			0.00	0.00										0.00							0.00	0.00		0.00%
Clyde Five Ways Road	6.58	0.00	0.00	0.00	6.58			0.00	0.00										0.00							0.00	0.00		0.00%
Tuckers Road	7.11	0.00	0.00	0.00	7.11			0.00	0.00										0.00							0.00	0.00		0.00%
Pattersons Road	6.55	0.00	0.00	0.00	6.55			0.00	0.00										0.00							0.00	0.00		0.00%
BELLS Road	3.63	0.00	0.00	0.00	2.41			0.00	0.00										0.00							1.22	1.22		33.71%
Railway Road	2.15	0.00	0.00	0.00	2.15			0.00	0.00										0.00							0.00	0.00		0.00%
Valetta Road	0.79	0.00	0.00	0.00	0.79			0.00	0.00										0.00							0.00	0.00		0.00%
Oroya Grove	0.63	0.00	0.00	0.01	0.61			0.00	0.00										0.00							0.00	0.00		0.00%
Pound Road	1.52	0.00	0.00	0.00	0.00	0.18		0.00						0.11					0.00							1.23	1.23		80.56%
Rail Corridor	5.76	0.00	0.00	0.00	0.00		5.76		0.00										0.00							0.00	0.00		0.00%
Twyford Road	2.35	0.00	0.00	0.00	0.13			0.00	0.00					0.39					0.00							1.83	1.83		77.85%
SUB-TOTAL	43.54	0.00				0.18	5.76		0.00	0.00	0.00	0.00		0.50	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.28	4.28	0.00	9.82%
TOTALS PSP 1054	1153.90	6.39	22.03	3.86	32.81	0.66	5.76	4.99	6.06	30.76	1.80	3.50	0.00	62.45	0.00	4.89	0.00	22.16	51.60	33.91	0.00	3.26	0.00	6.38	0.00	850.65	850.65	0.00	73.72%

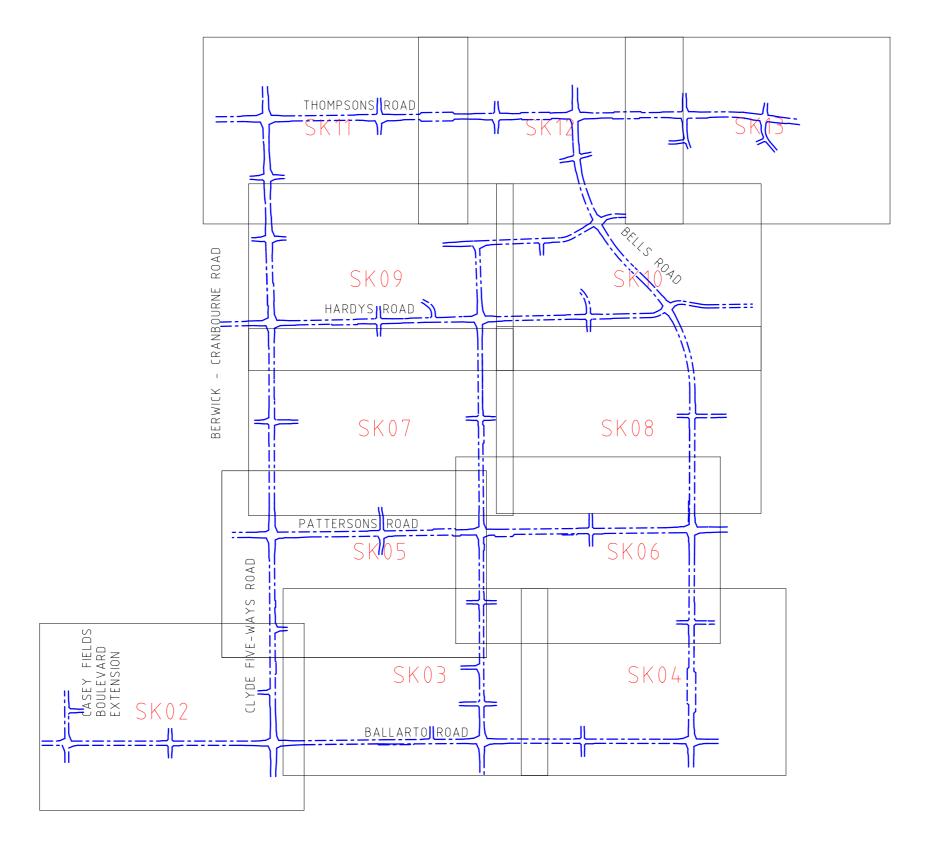


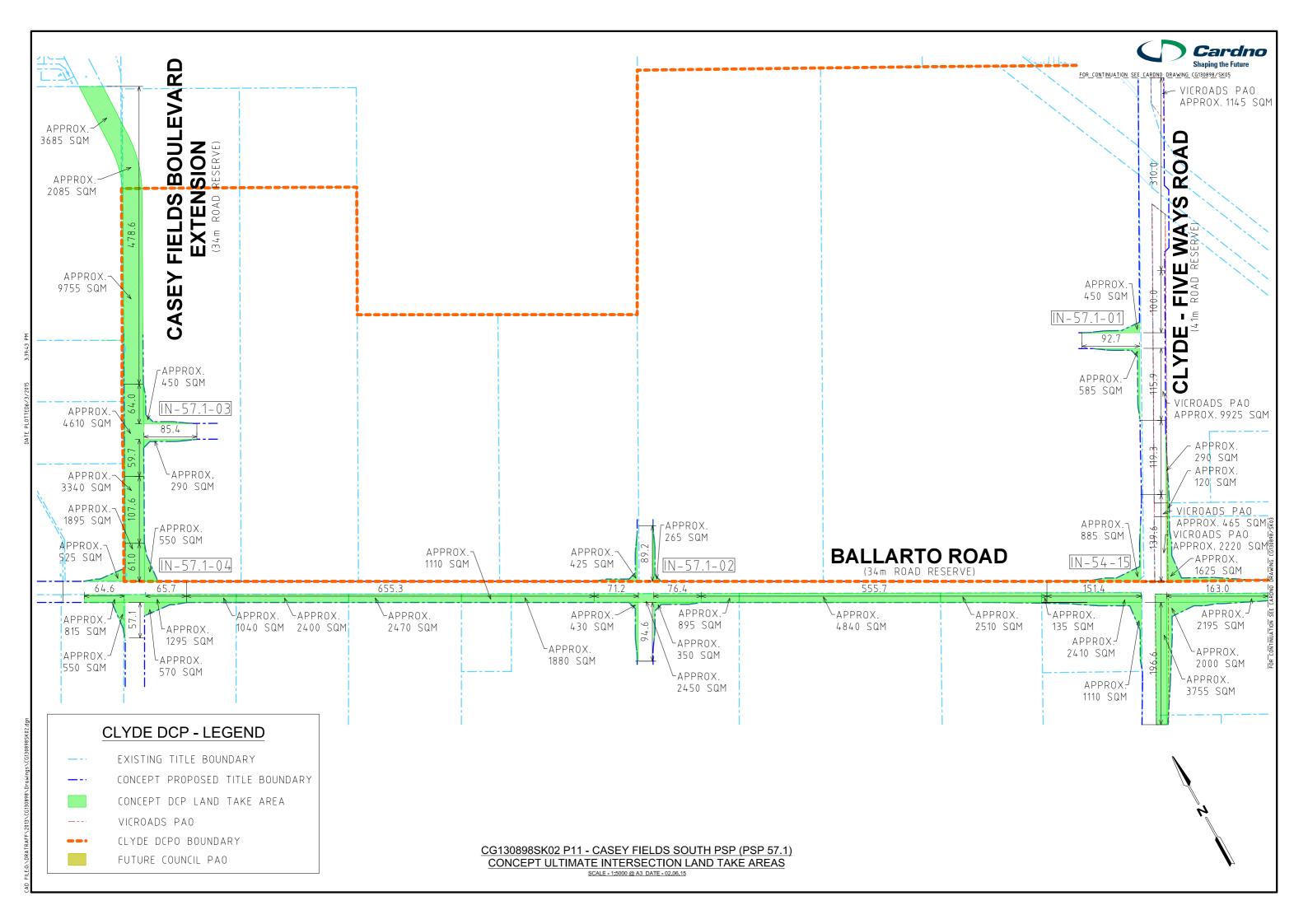
PSP 57.1- Casey Fields	South																												
				TRANSP	ORT				COMML	JNITY FA	CILITIES			SEF	RVICE OP	en spac	E			Dited of Space Local		OTHER SPA		ОТН	HER	RES)	TIAL		Ł:
PSP PROPERTY ID	TOTAL AREA (HECTARES)	PAO TOTALS	ARTERIAL ROADS / WIDENINGS TOTALS	DCP FLARING FOR INTERSECTIONS TOTALS	EXISTING ROAD RESERVES	TREE RESERVE	RAILWAY CORRIDOR / EASEMENT	DCP COMMUNITY FACILITIES	DCP INDOOR RECREATION FACILITIES	POTENTIAL GOVERNMENT EDUCATION	EXISTING GOVERNMENT EDUCATION	NON-GOVERNMENT EDUCATION	POWER / GAS EASEMENT	WATERWAY CORRIDOR/WETLAND / RETARDING	DESALINATION PIPE EASEMENT (+ GAP BETWEEN EASEMENT AND ROAD)	HERITAGE (POST CONTRACT)	HERITAGE (ABORIGINAL)	CONSERVATION (EPBC CATEGORY 1)	LOCAL SPORTSFIELDS	LOCAL PARKS -RESIDENTAL	LOCAL PARKS -EMPLOYMENT	EXISTING LOCAL SPORTFIELDS	REGIONAL SPORTSFIELDS	EXISTING CLYDE TOWNSHIP RZ1 AREA	SUBSTATION	TOTAL NET DEVELOPABLE AREA (HECTARES)	TOTAL NET DEVELOPABLE AREA RESIDENTIAL (HECTARES)	TOTAL NET DEVELOPABLE AREA EMPLOYMENT(HECTARES)	NET DEVELOPABLE AREA % OF PROPERTY
57-1	11.96	0.00	1.96	0.13	0.00			0.00	0.00										0.00				3.17			6.70	6.70		84.76%
57-2	11.94	0.00	0.00	0.00	0.00			0.00	0.00										0.00	0.40			3.87			7.67	7.67		82.40%
57-3	9.71	0.00	0.00	0.00	0.00			0.00	0.00										0.00	0.34						9.37	9.37		77.01%
57-4	9.61	0.00	0.00	0.04	0.00			0.00	0.00										0.00	0.04						9.53	9.53		55.34%
57-5	24.39	0.00	0.00	0.03	0.00			0.00	0.00					3.28					0.00	0.53						20.55	20.55		81.47%
57-6	40.47	0.00	0.00	0.19	0.00			0.00	0.00		0.00			1.32					0.00	2.36						36.60	36.60		74.32%
57-7	1.09	0.00	0.00	0.00	0.00			0.00	0.00										0.00							1.09	1.09		95.58%
rail corridor	0.89	0.00	0.00	0.00	0.00		0.89	0.00	0.00										0.00							0.00	0.00		79.76%
TOTALS PSP 1057.1	110.06	0.00	1.96	0.39	0.00	0.00	0.89	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.00	0.00	0.00	0.00	3.67	0.00	0.00	7.04	0.00	0.00	91.52	91.52	0.00	83.15%
TOTALS ALL PRECINCTS	1959.29	9.98	43.38	8.91	44.97	2.42	6.65	8.13	7.66	37.78	1.80	3.50	55.85	102.30	7.02	4.89	0.00	22.16	77.53	54.67	1.77	3.26	7.04	6.38	0.95	1440.31	1344.72	95.60	73.51%



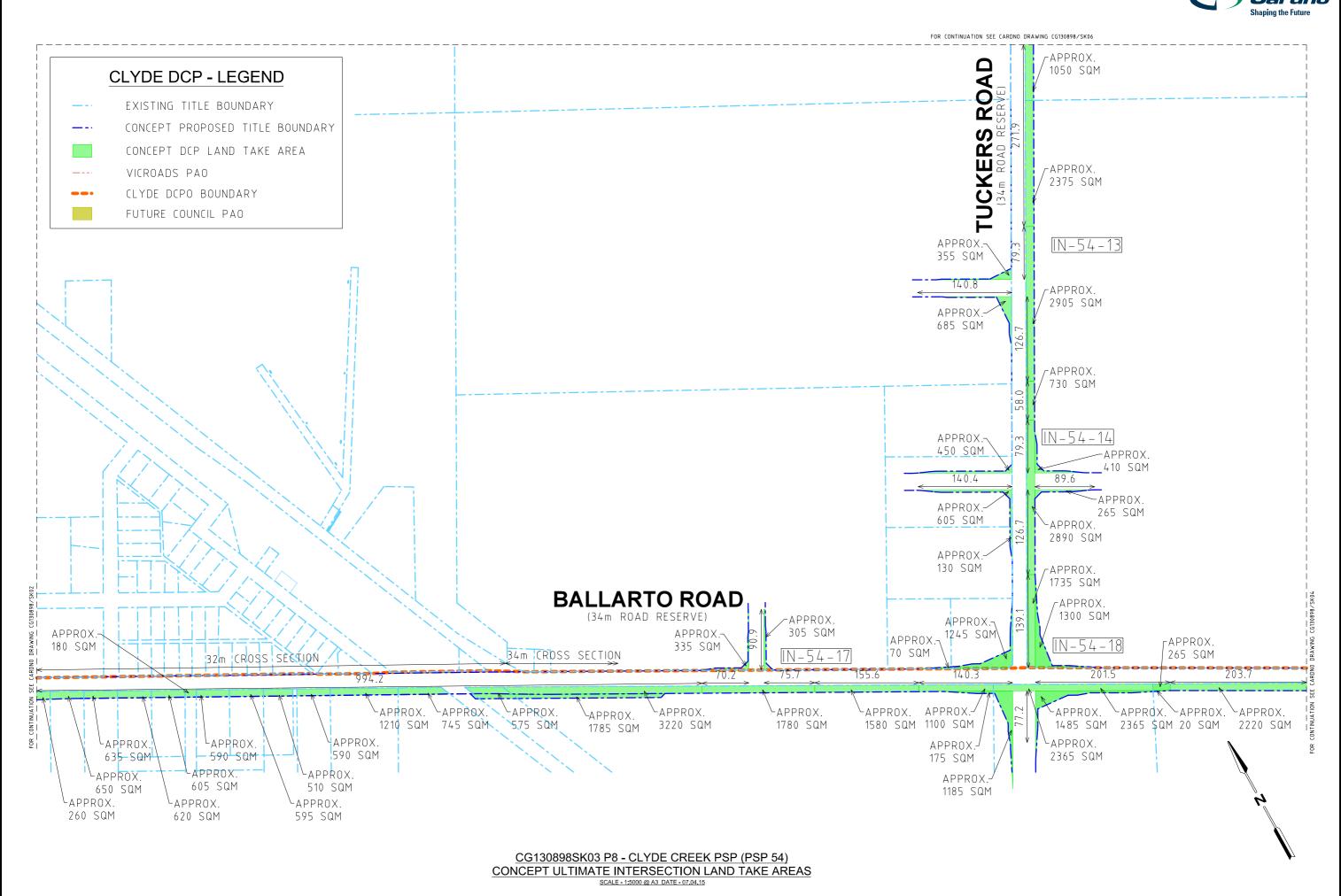
7.3 Ultimate land takes for road and intersections

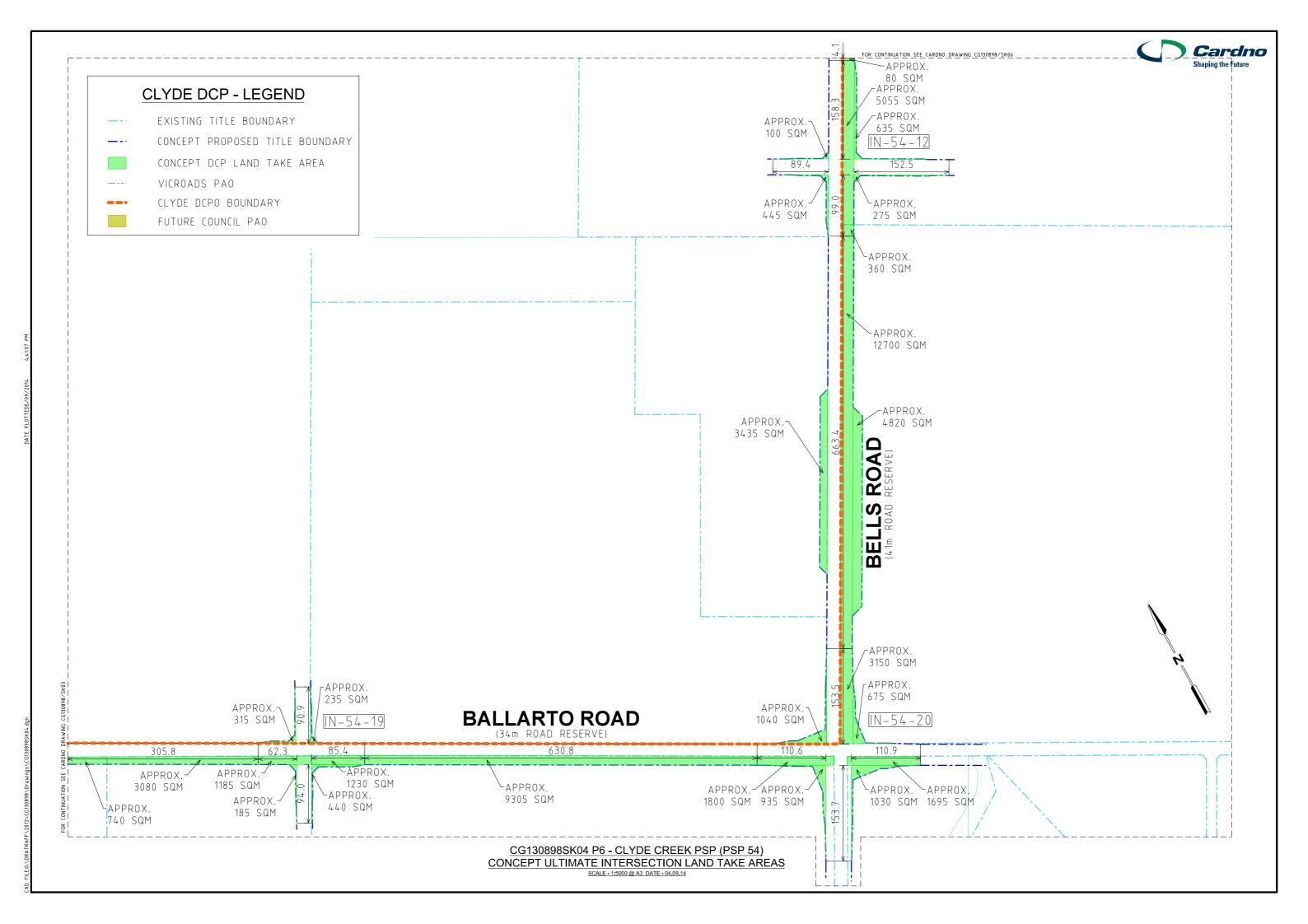


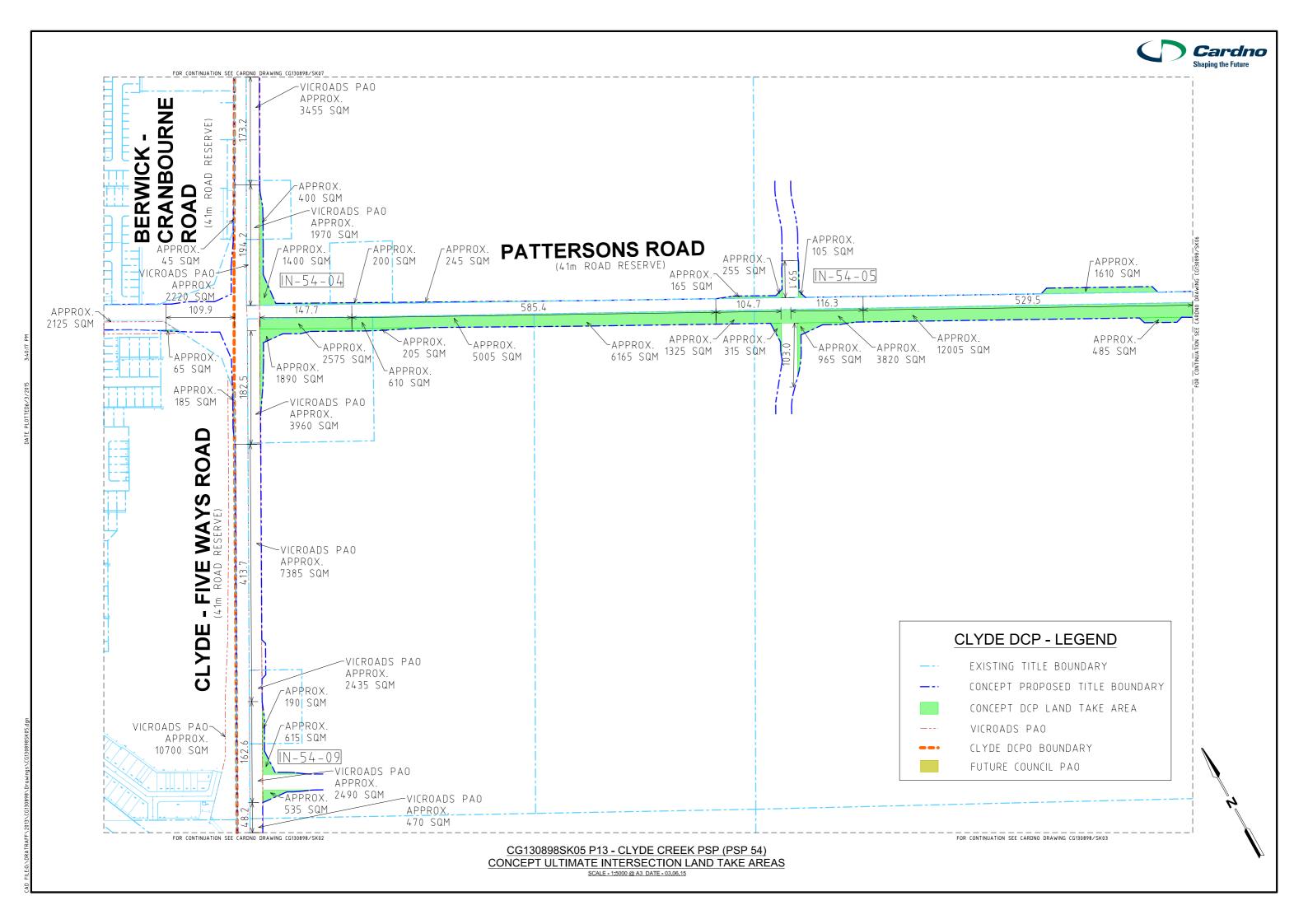




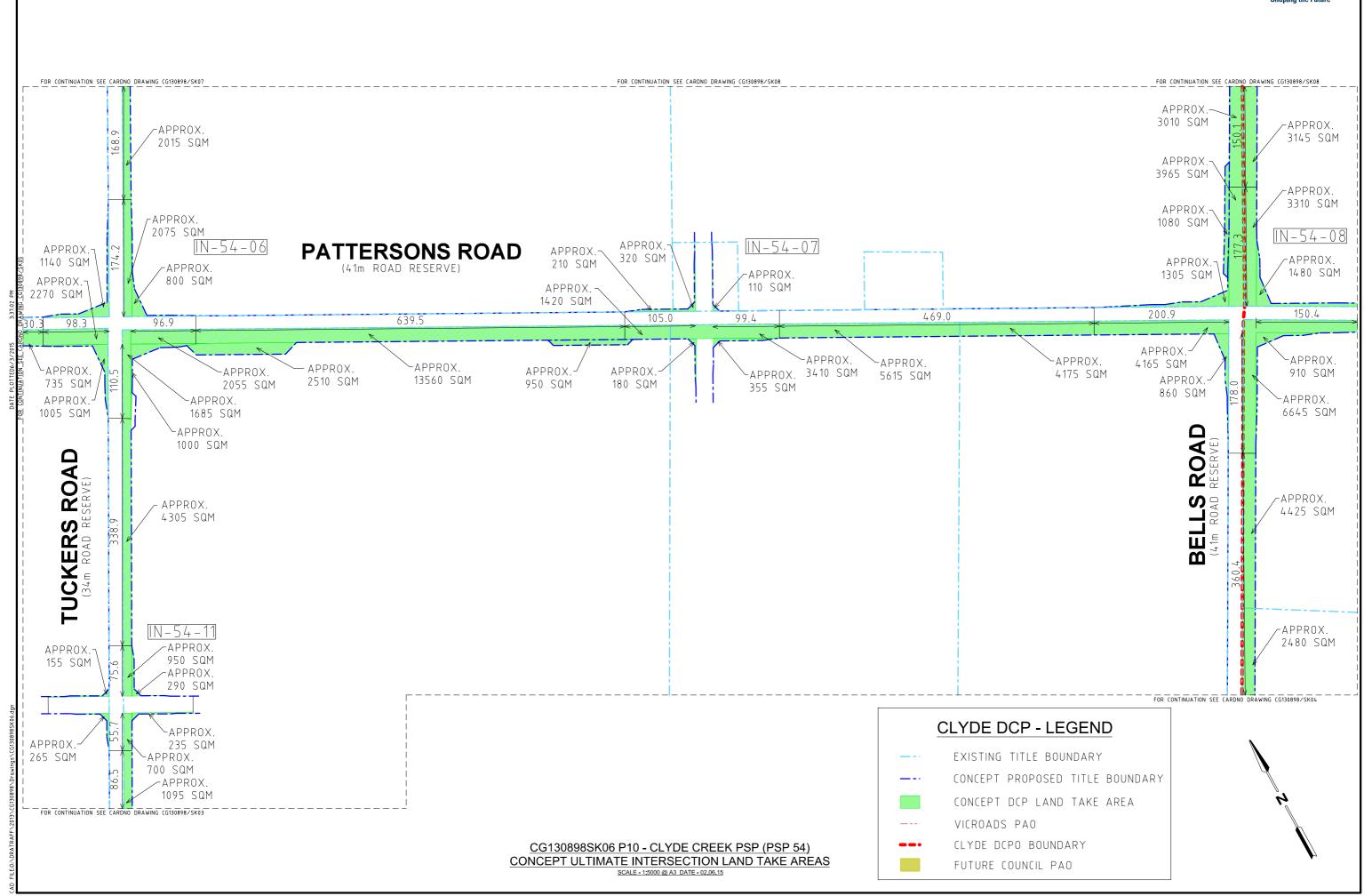




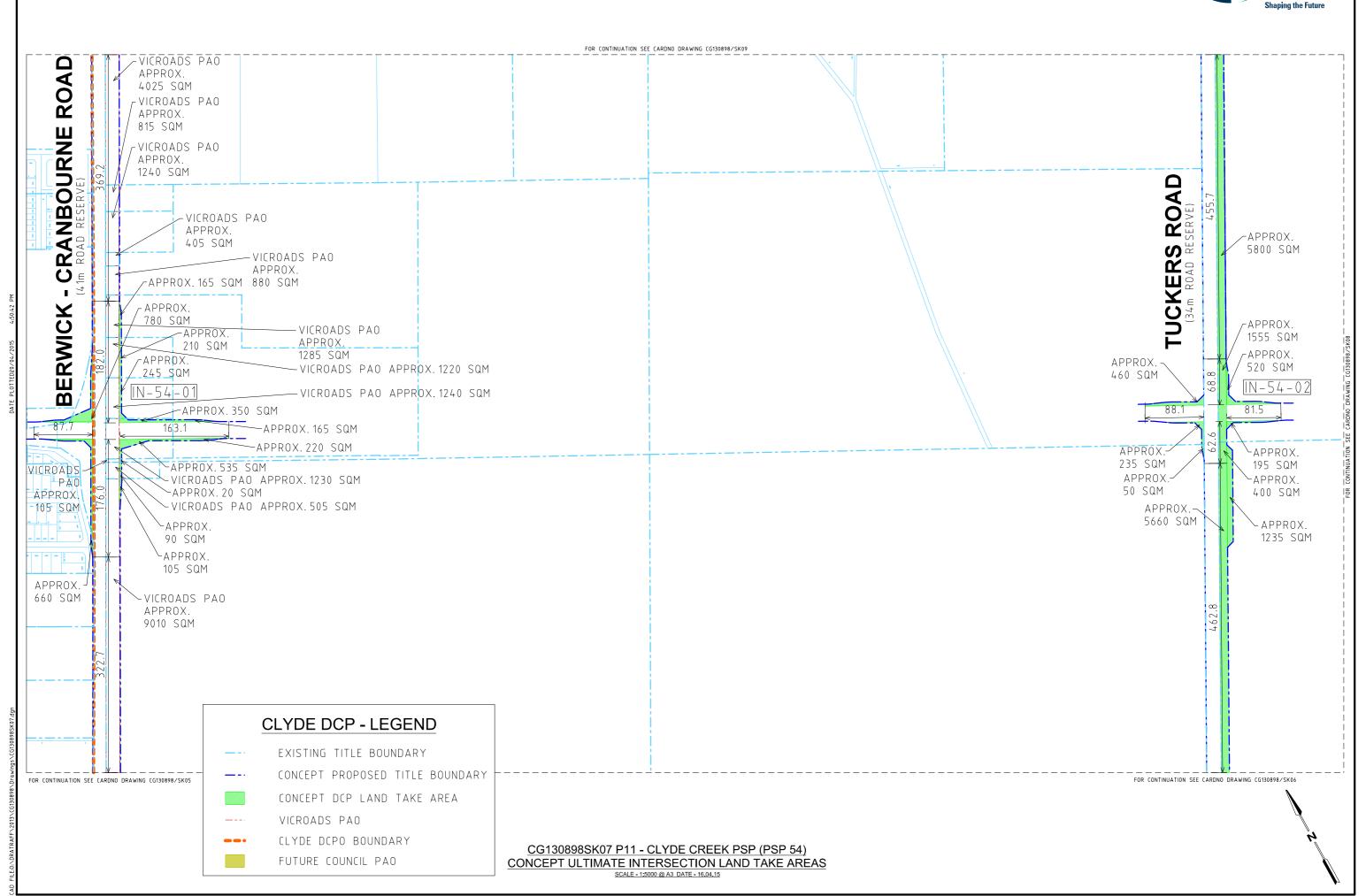




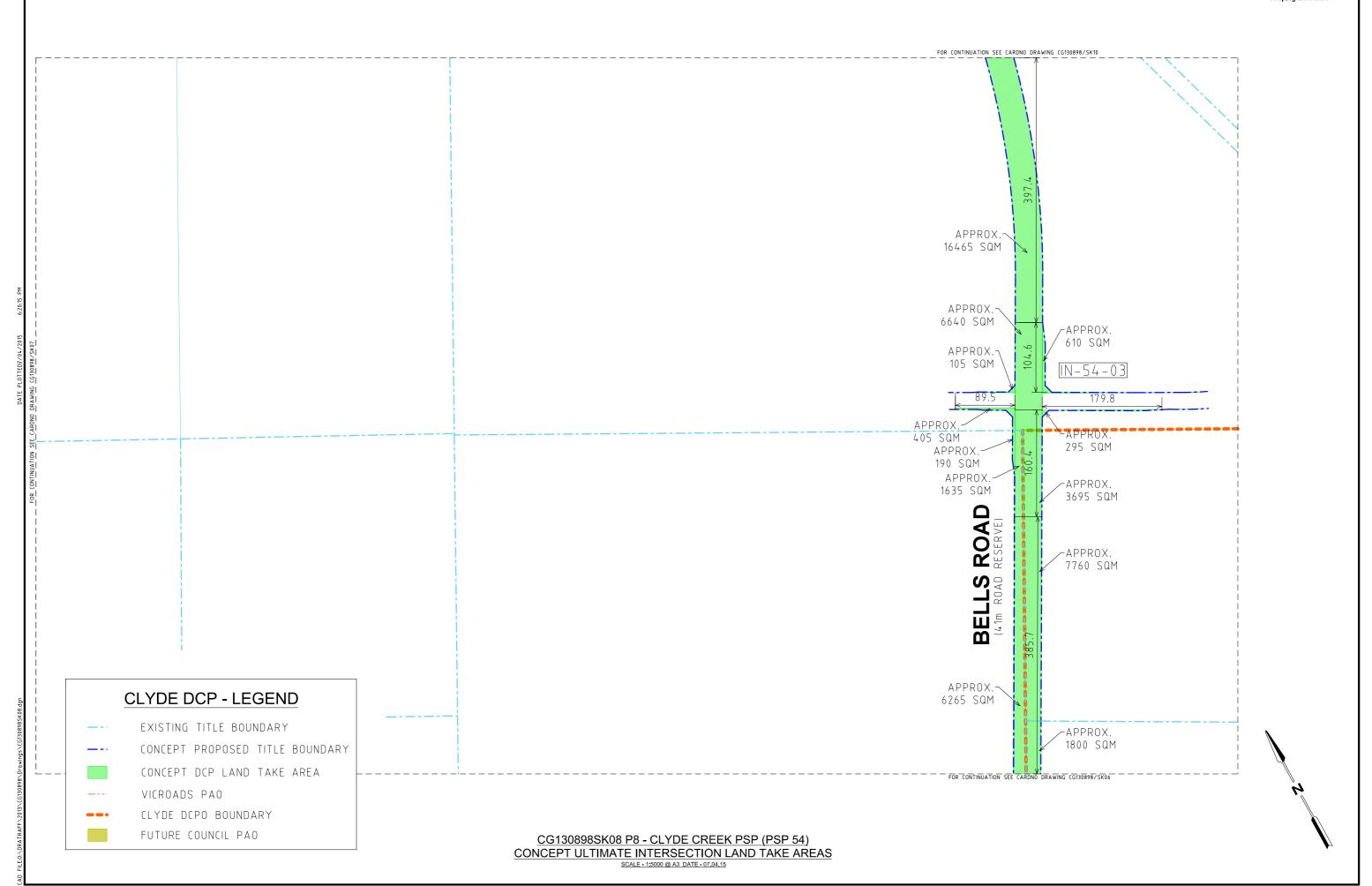


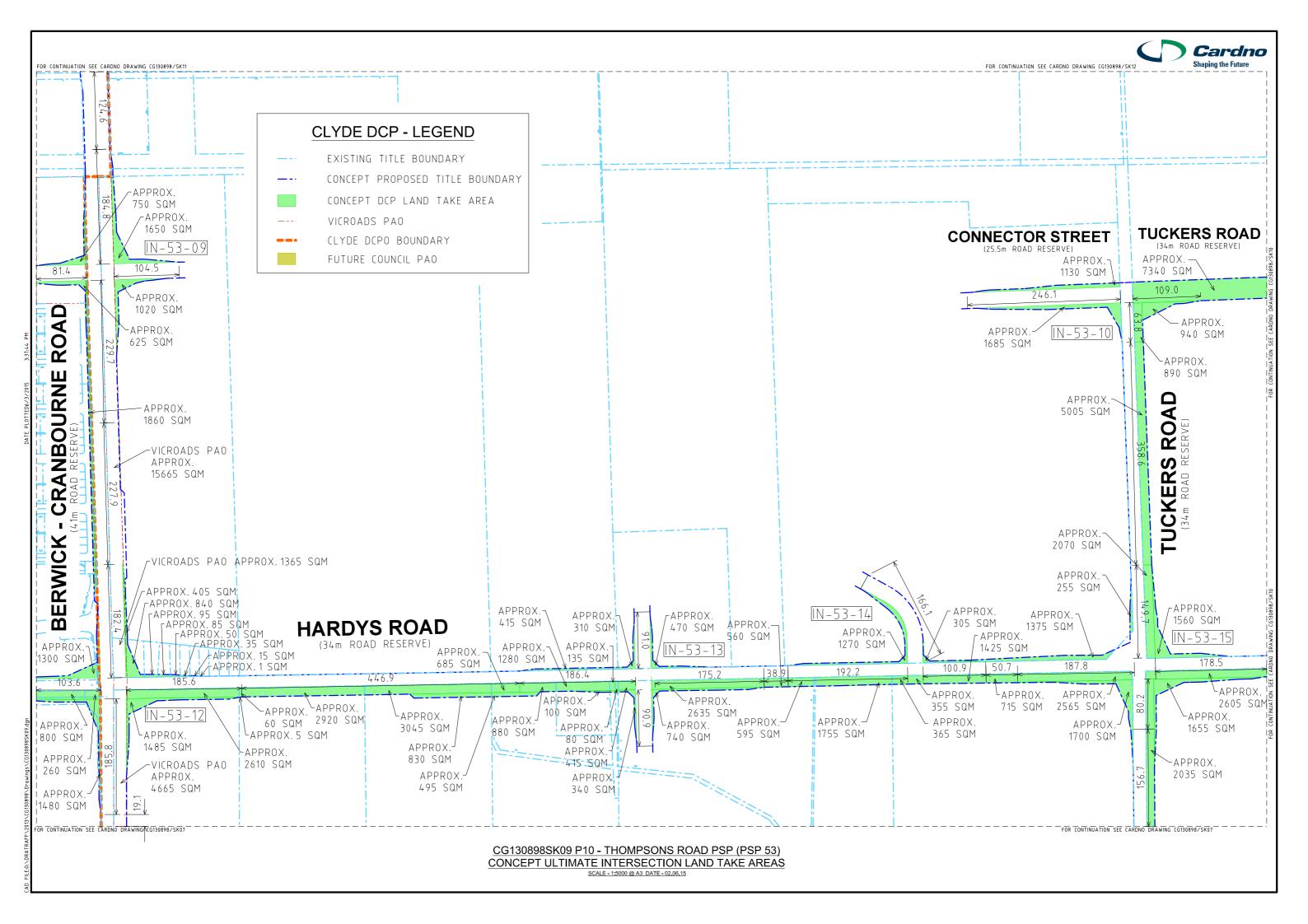


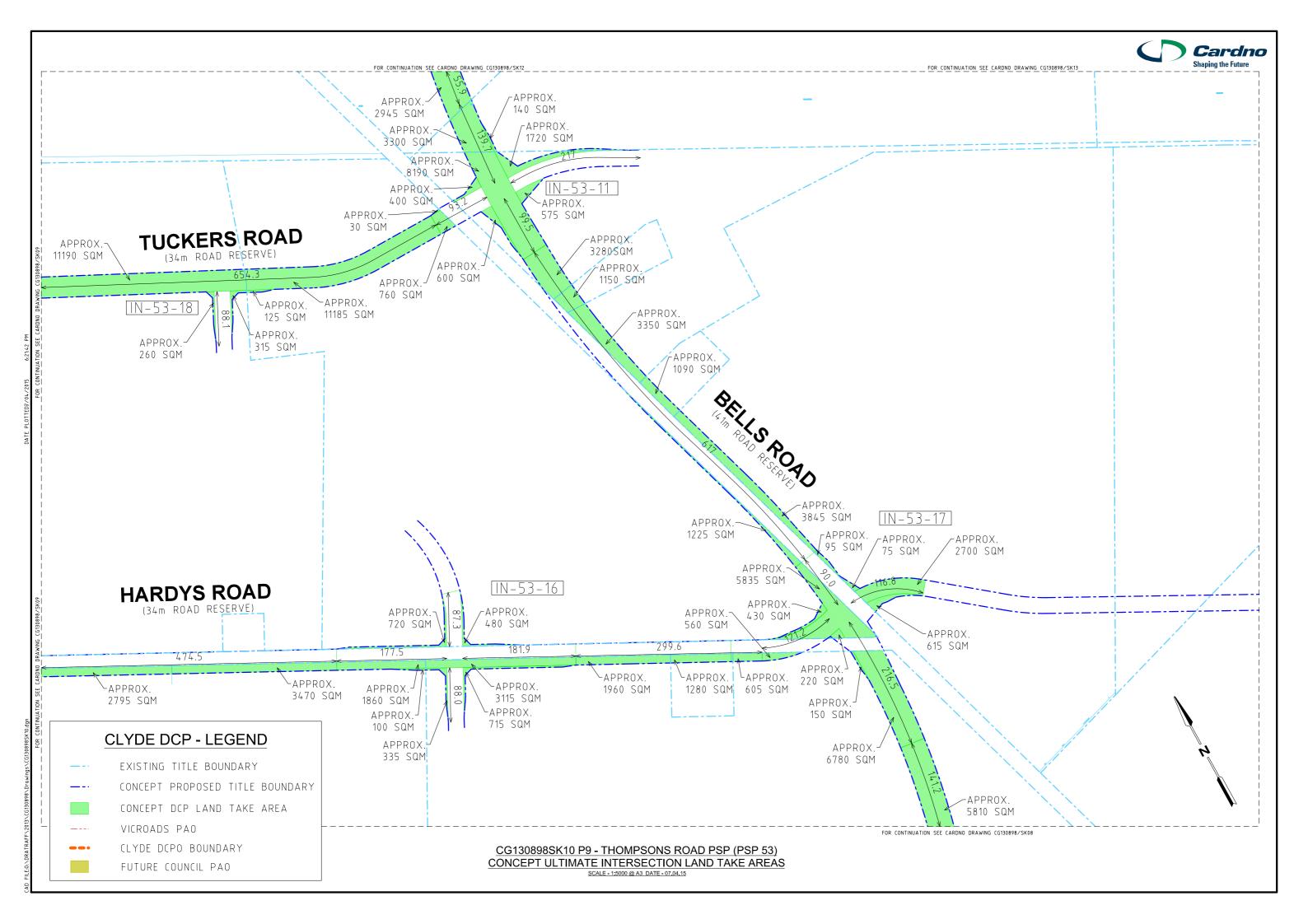


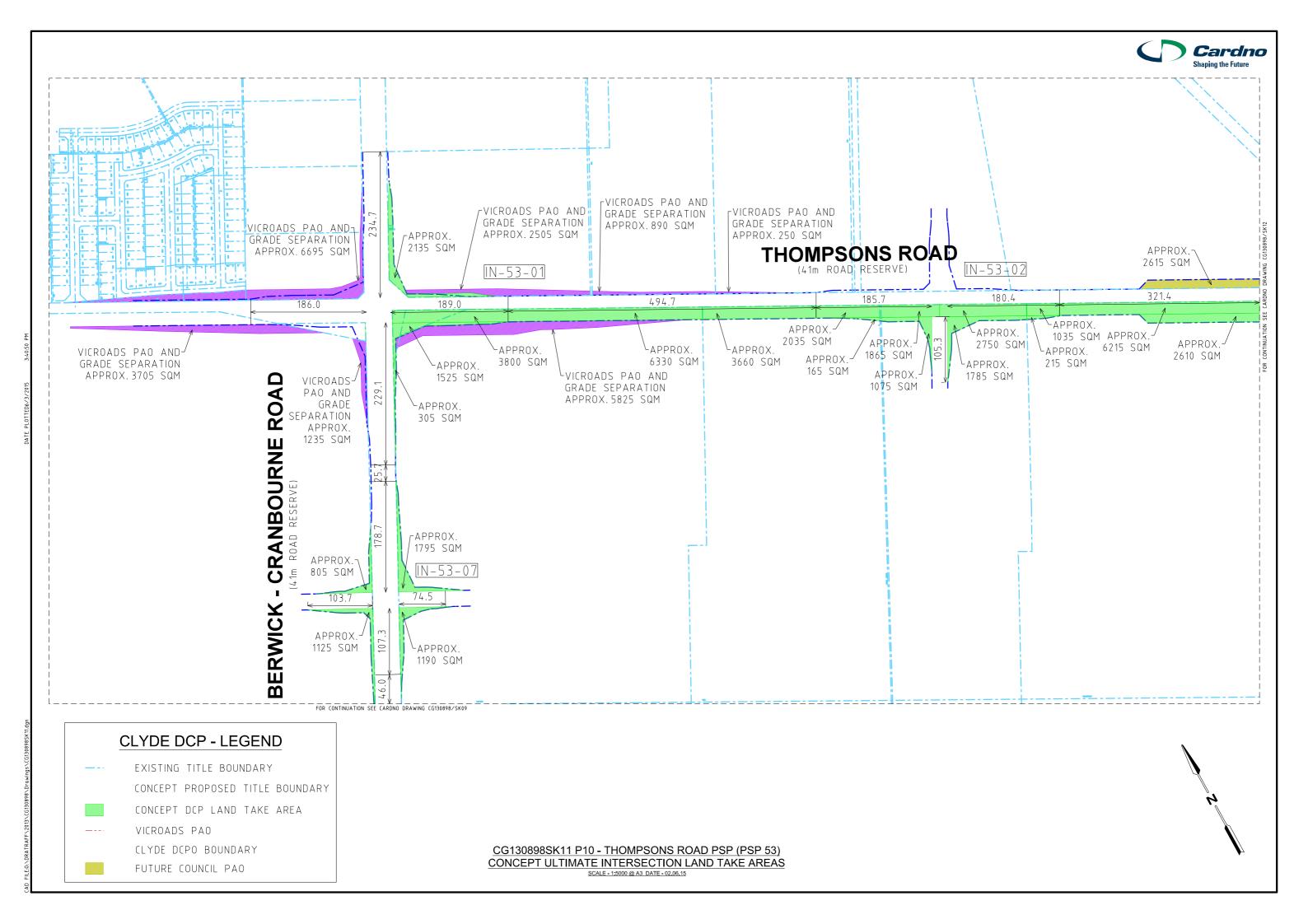




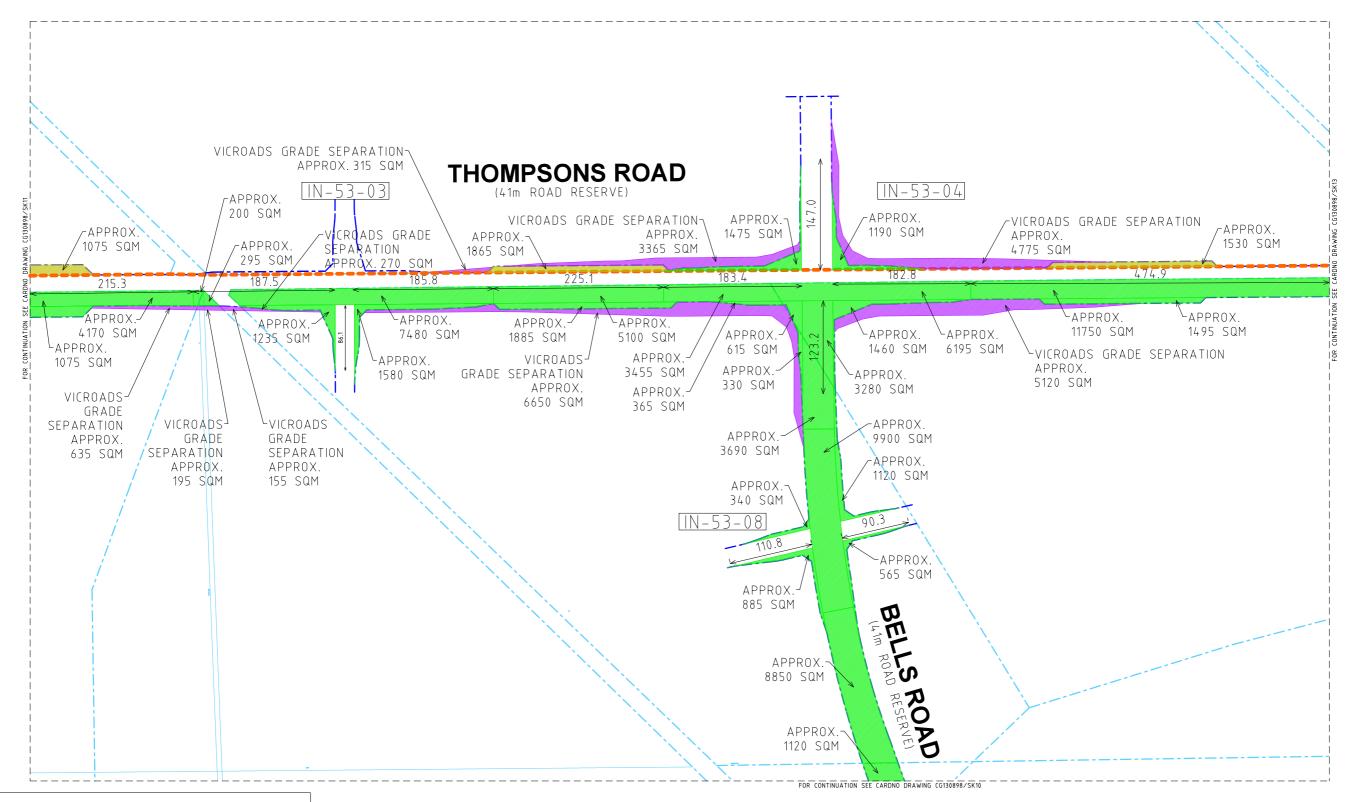












CLYDE DCP - LEGEND

EXISTING TITLE BOUNDARY

CONCEPT PROPOSED TITLE BOUNDARY

CONCEPT DCP LAND TAKE AREA

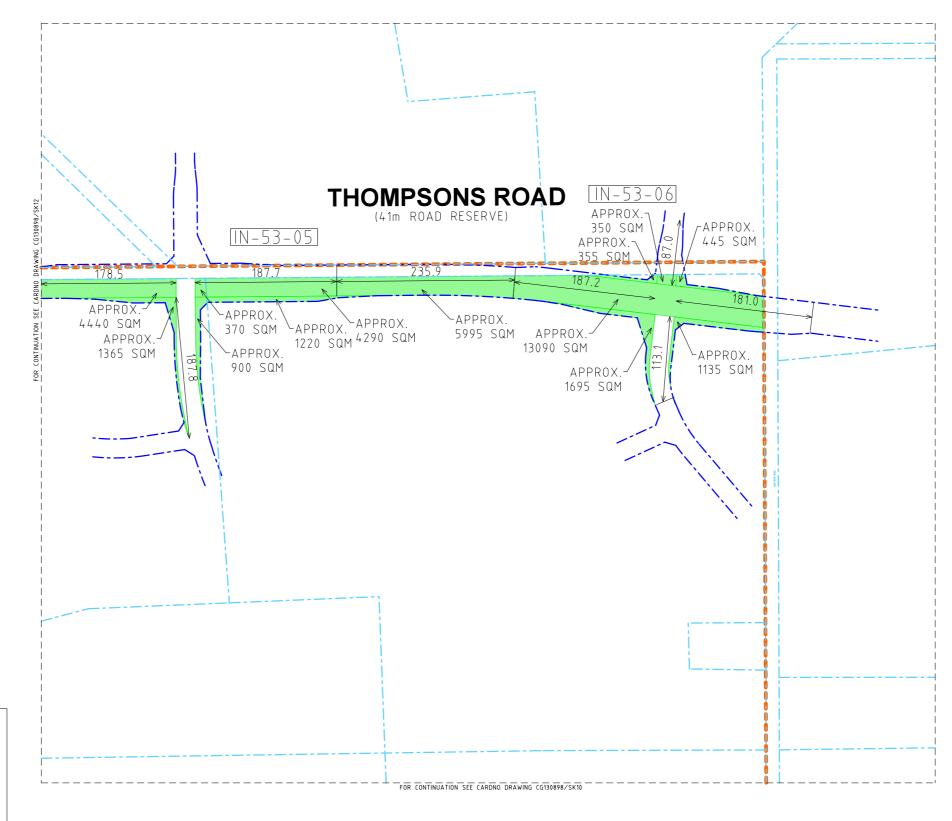
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CLYDE DCPO BOUNDARY

FUTURE COUNCIL PAO

CG130898SK12 P10 - THOMPSONS ROAD PSP (PSP 53)
CONCEPT ULTIMATE INTERSECTION LAND TAKE AREAS

SCALE - 1:5000 @ A3 DATE - 03:06:15



CLYDE DCP - LEGEND

EXISTING TITLE BOUNDARY

CONCEPT PROPOSED TITLE BOUNDARY

CONCEPT DCP LAND TAKE AREA

VICROADS PAO

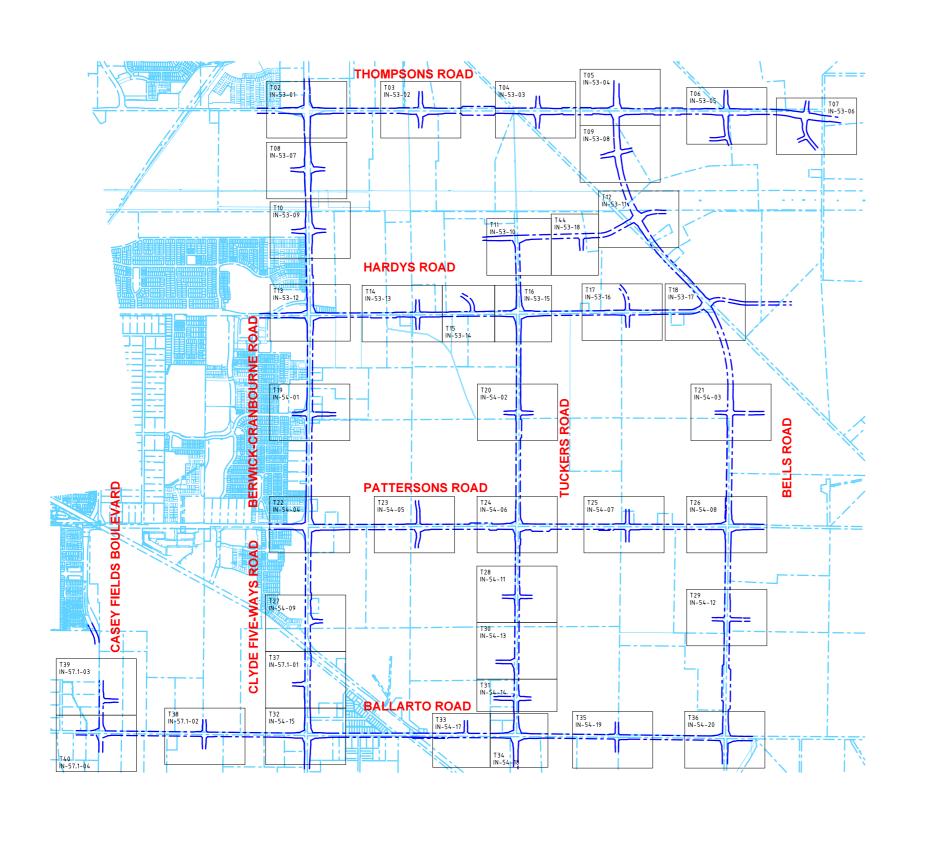
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FUTURE COUNCIL PAO

CG130898SK13 P8 - THOMPSONS ROAD PSP (PSP 53) CONCEPT ULTIMATE INTERSECTION LAND TAKE AREAS SCALE - 1:5000 @ A3 DATE - 29:09:14



7.4 Interim intersection designs



GENERAL NOTES

1. CROSS SECTIONS BASED ON AMENDED MPA CROSS SECTIONS AS SUPPLIED BY MPA 2. PROPOSED THE BOUNDARIES ARE INDICATIVE BASED ON CONCEPTUAL DESIGN 3. EXISTING OR FUTURE SERVICES HAVE NOT DEFEN CONSIDERED 4. LINEMARKING IS DIAGRAMMATICAL TO REPRESENT FUNCTIONAL ITY 5. CADASTRAL TITLE BOUNDARY INFORMATION SUPPLIED BY VICMAP

SPEED ZONES ROAD CLASSIFICATION

PRIMARY ARTERIAL
- THOMPSONS ROAD
- PATTERSONS ROAD
- BERWICK-CRANBOURNE ROAD
- CLYDE FIVE-WAYS ROAD
- BELLS ROAD ULTIMATE PRIMARY ARTERIAL: 80km/h SECONDARY ARTERIAL: 60km/h CONNECTOR STREET: 50km/h

INTERIM
PRIMARY ARTERIAL: 60km/h
SECONDARY ARTERIAL: 60km/h
CONNECTOR STREET: 50km/h SECONDARY ARTERIAL
- HARDYS ROAD
- BALLARTO ROAD
- TUCKERS ROAD

LEGEND

- -- PROPOSED CONCEPT TITLE BOUNDARY

- - CADASTRAL TITLE BOUNDARY ----- ULTIMATE LAYOUT

- INTERIM LAYOUT

 P3
 17.10.14
 MPA/VICROADS COMMENTS

 P2
 18.08.14
 GENERAL AMENDMENTS
 COB CB
COB CB
COB RBH P1 04.06.14 ISSUED FOR INFORMATION

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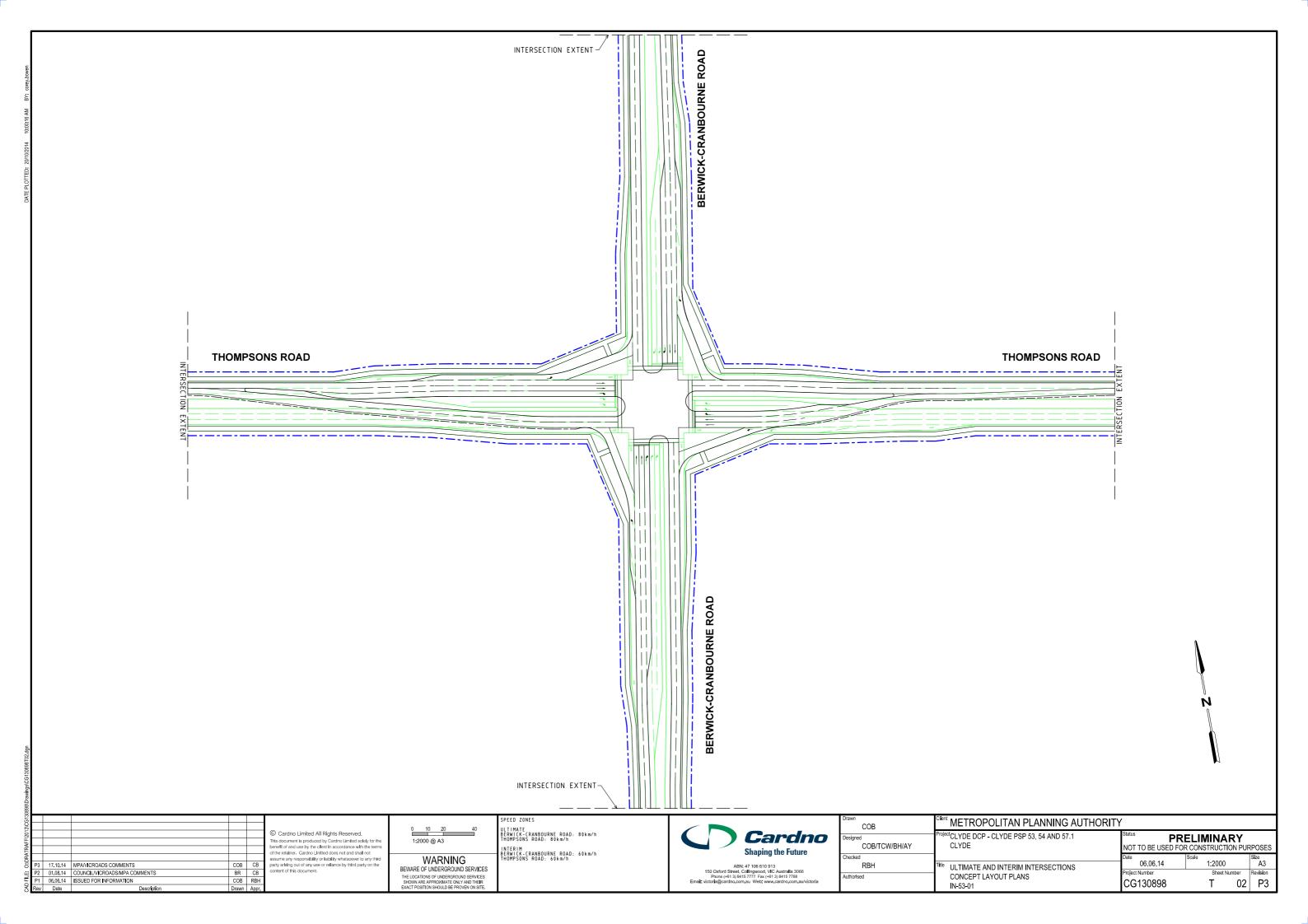
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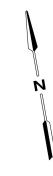
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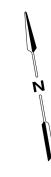
SPEED ZONES

ULTIMATE
THOMESONS ROAD: 80km/h
CONNECTOR STREET: 50km/h
INTERIM
THOMPSONS ROAD: 60km/h
CONNECTOR STREET: 50km/h

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Checked RBH	Title ULTIMATE AND INTERIM INTERSECTIONS	Date 06.06.14	Scale 1:2000		Size A3		
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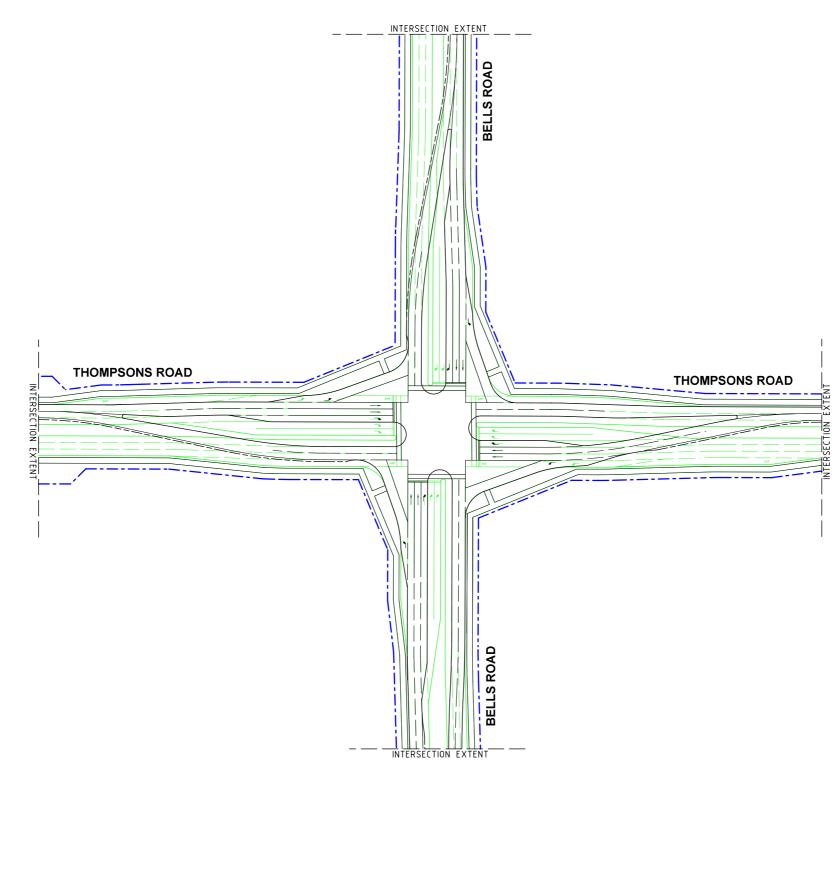
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SPEED ZONES
ULTIMATE
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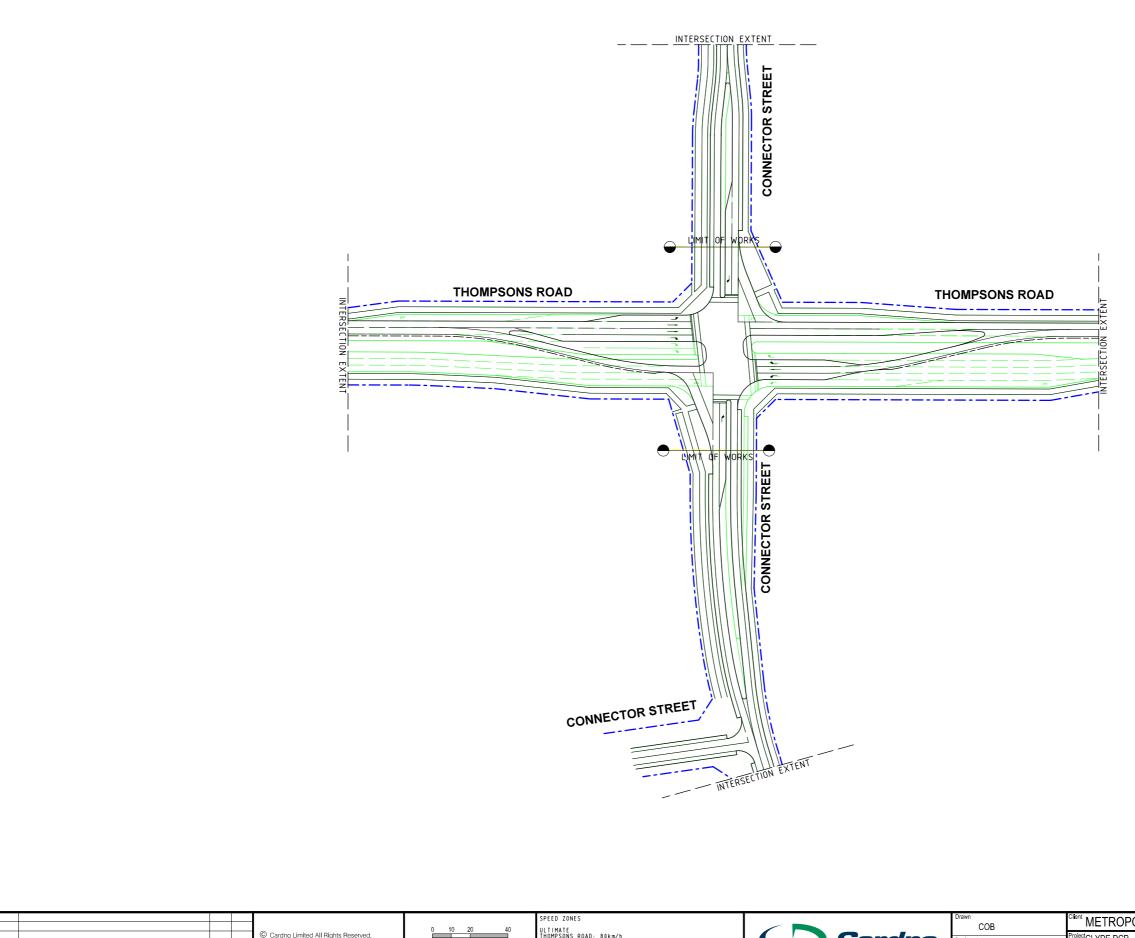
SPEED ZONES

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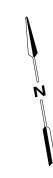
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ULTIMATE THOMPSONS ROAD: 80km/h CONNECTOR STREET: 60km/h INTERIM THOMPSONS ROAD: 60km/h CONNECTOR STREET: 60km/h

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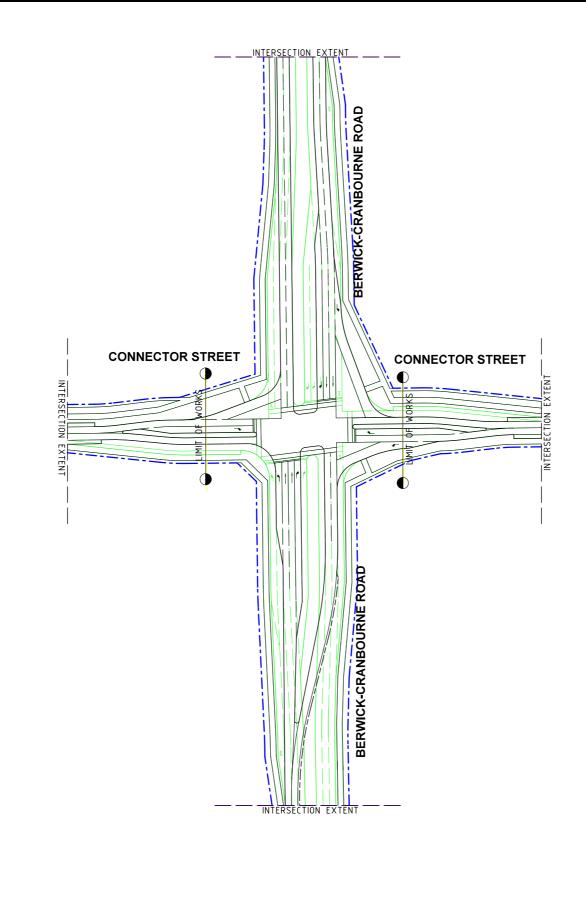
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SPEED ZONES
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CONNECTOR STREET: 60km/h

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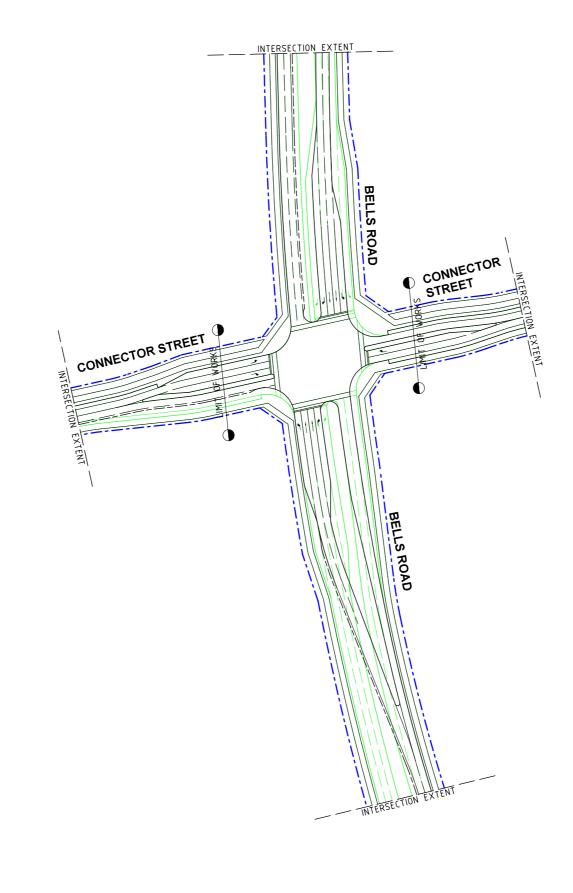
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CONNECTOR STREET: 50km/h
INTERIM
BERWICK-CRANBOURNE ROAD: 60km/h
CONNECTOR STREET: 50km/h

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P4	17.10.14	MPA/VICROADS COMMENTS	COB	CB
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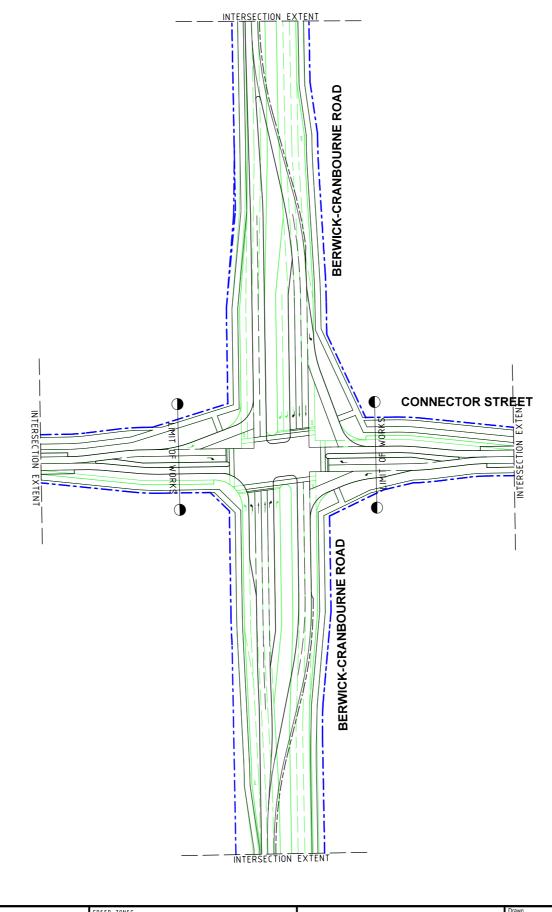
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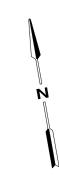
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ULTIMATE BERWICK-CRANBOURNE ROAD: 80km/h CONNECTOR STREET: 50km/h INTERIM BERWICK-CRANBOURNE ROAD: 60km/h CONNECTOR STREET: 50km/h

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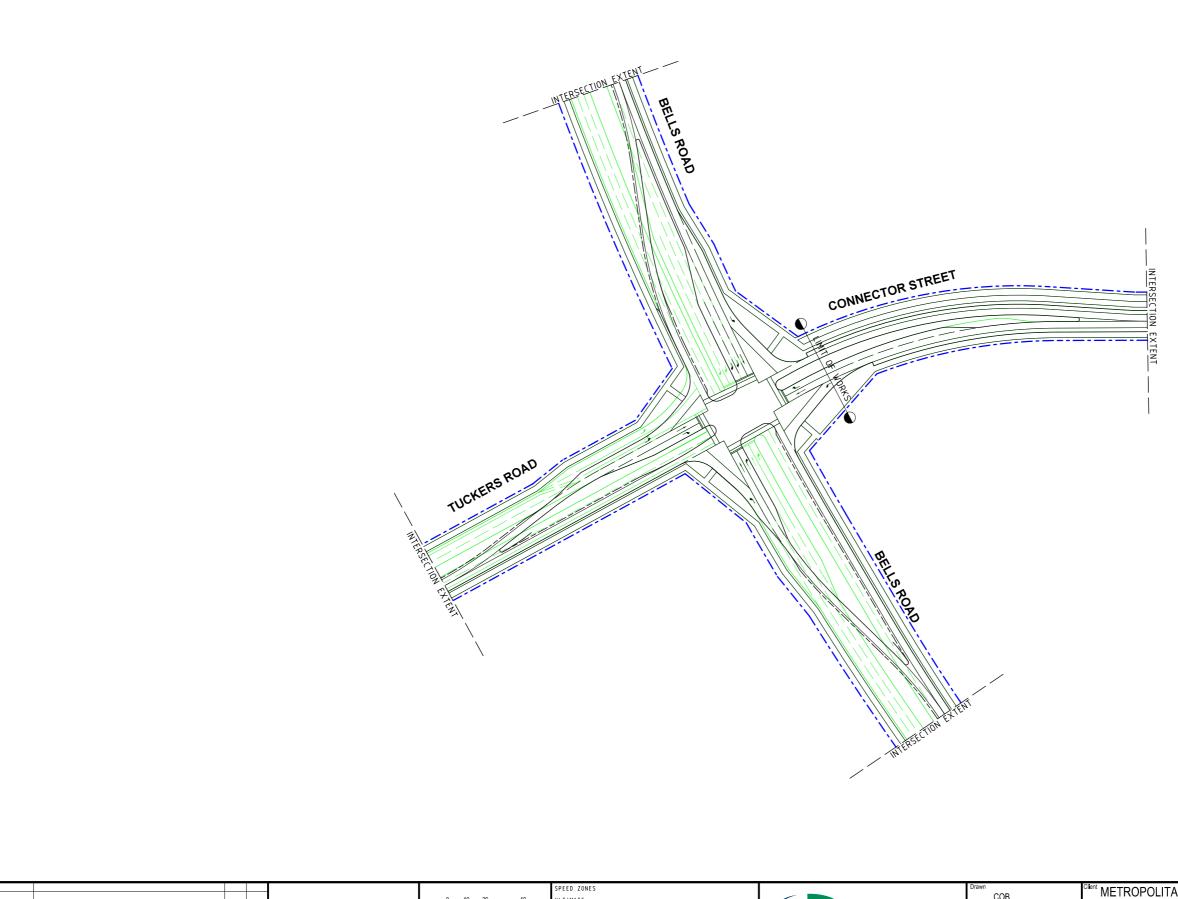
SPEED ZONES

ULTIMATE
TUCKERS ROAD: 60km/h
CONNECTOR STREET: 50km/h
INTERIM
TUCKERS ROAD: 60km/h
CONNECTOR STREET: 50km/h

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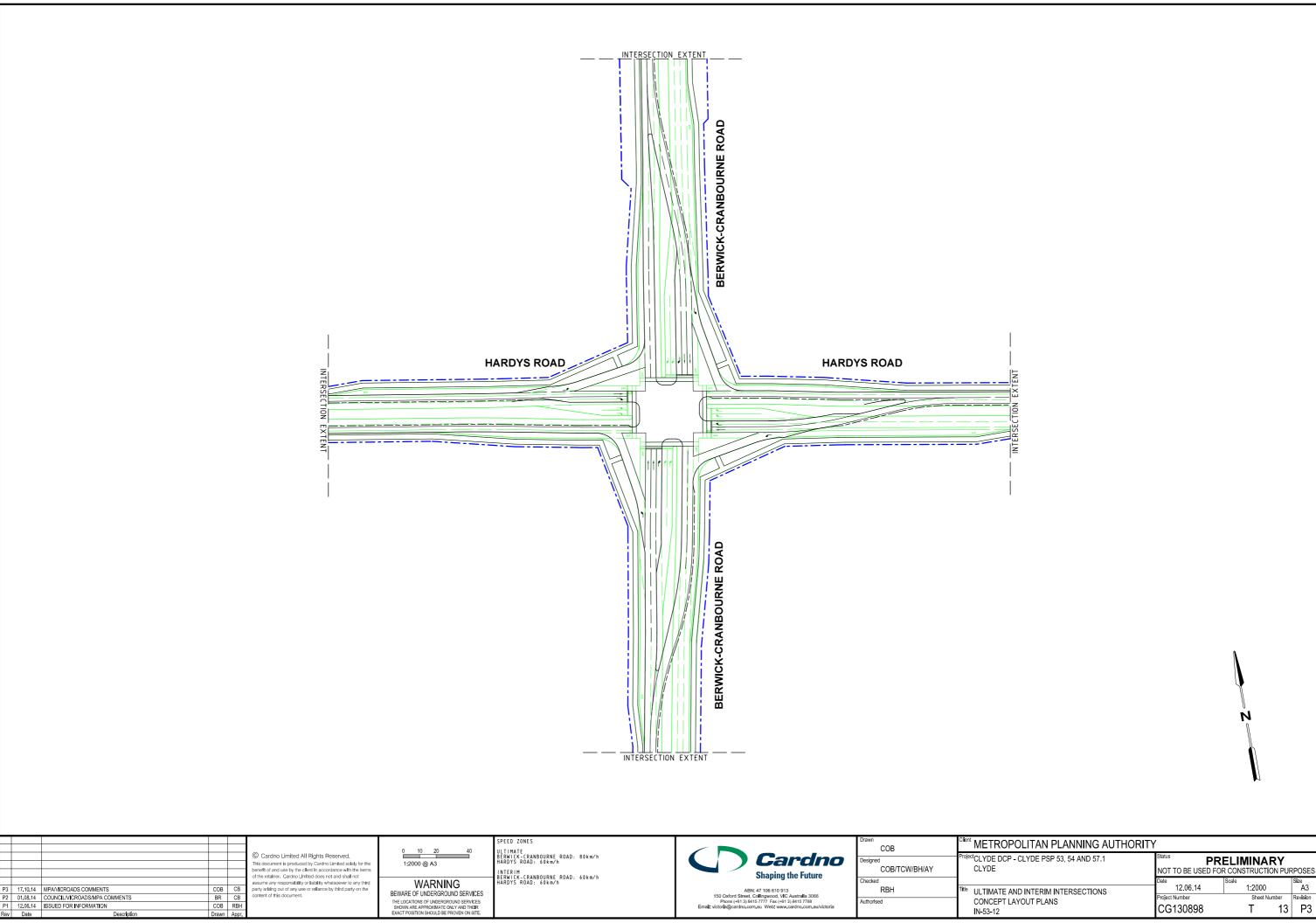
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ULTIMATE
BELLS ROAD: 80km/h
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CONNECTOR STREET: 50km/h INTERIM BELLS ROAD: 60km/h TUCKERS ROAD: 60km/h CONNECTOR STREET: 50km/h WARNING
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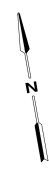


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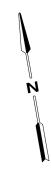
WARNING
BEWARE OF UNDERGROUND SERVICES
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SPEED ZONES
ULTIMATE
HARDYS ROAD: 60km/h
CONNECTOR STREET: 50km/h
INTERIM
HARDYS ROAD: 60km/h
CONNECTOR STREET: 50km/h

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Designed COB/TCW/BH/AY	Project CLYDE DCP - CLYDE PSP 53, 54 AND 57.1 CLYDE	PRINOT TO BE USED FOR	ELIMINARY R CONSTRUCTION PU	RPOSES
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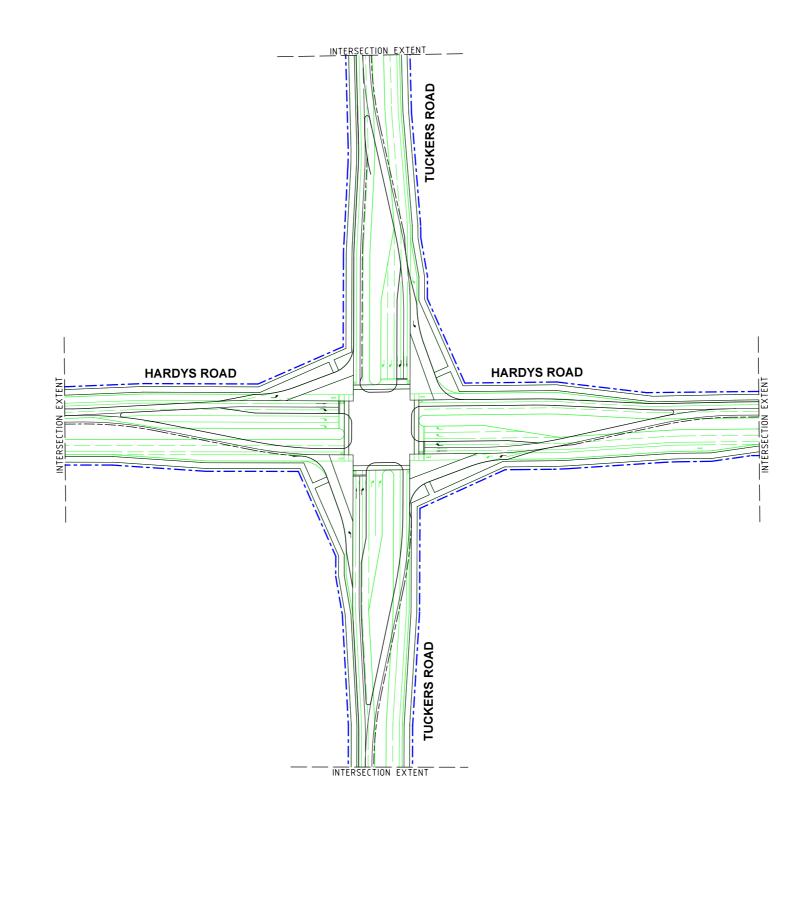
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PEED ZONES ULTIMATE HARDYS ROAD: 60km/h CONNECTOR STREET: 50km/h INTERIM HARDYS ROAD: 60km/h CONNECTOR STREET: 50km/h

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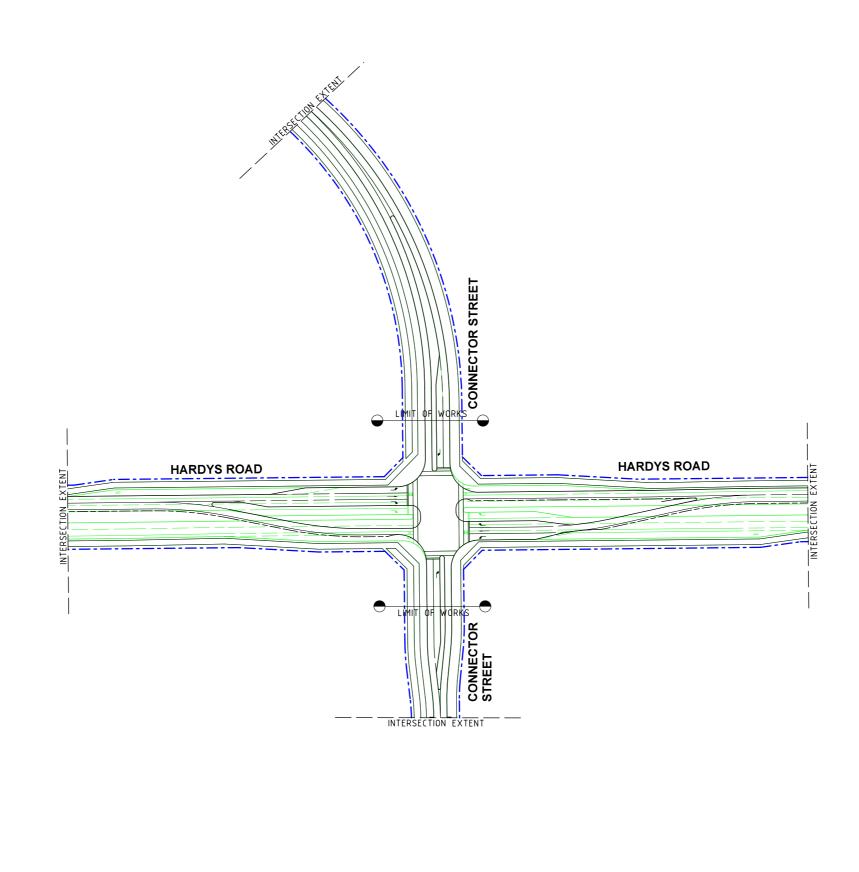
SPEED ZONES

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TUCKERS ROAD: 60km/h
CONNECTOR STREET: 50km/h

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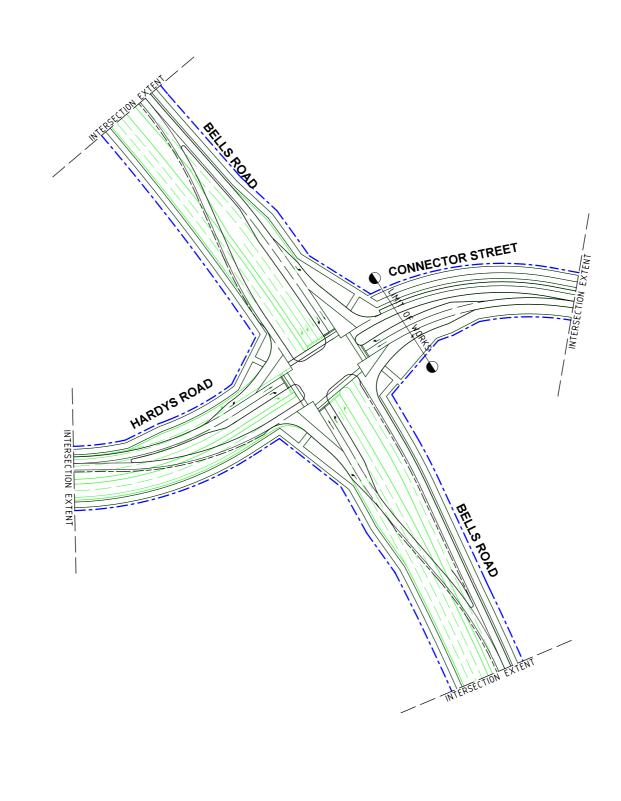
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SPEED ZONES
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HARDYS ROAD: 60km/h
CONNECTOR STREET: 50km/h

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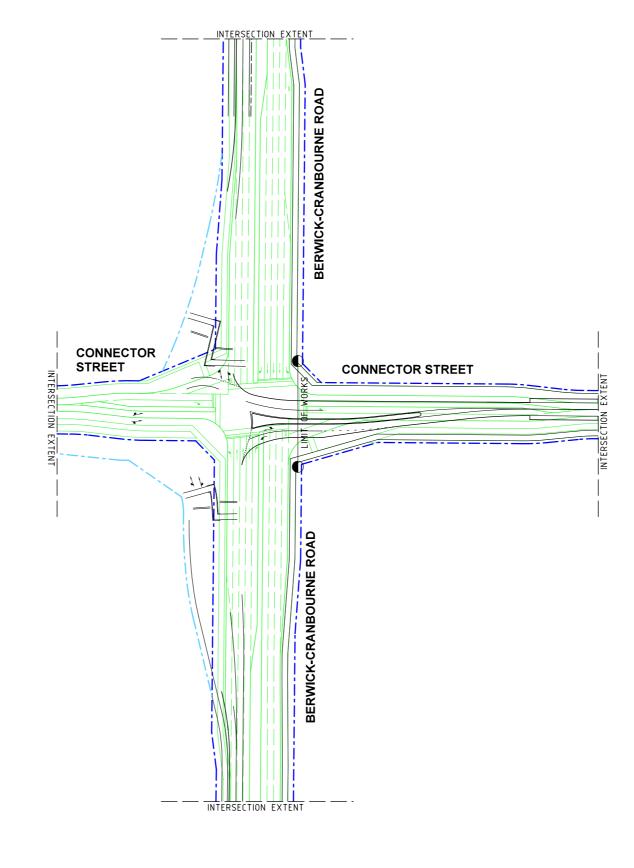
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ULTIMATE BELLS ROAD: 80km/h HARDYS ROAD: 60km/h CONNECTOR STREET: 50km/h INTERIM BELLS ROAD: 60km/h HARDYS ROAD: 60km/h CONNECTOR STREET: 50km/h WARNING
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SHOWN ARE APPORTUNITATE ON THEIR
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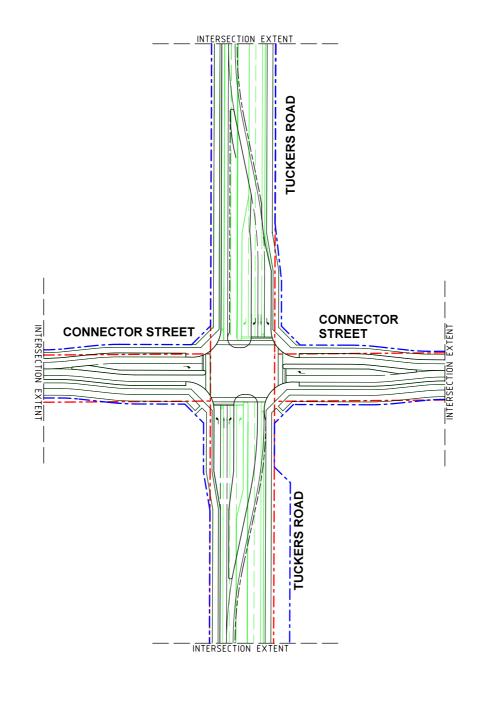
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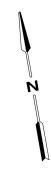
ULTIMATE BERWICK-CRANBOURNE ROAD: 80km/h CONNECTOR STREET: 50km/h INTERIM BERWICK-CRANBOURNE ROAD: 60km/h CONNECTOR STREET: 50km/h

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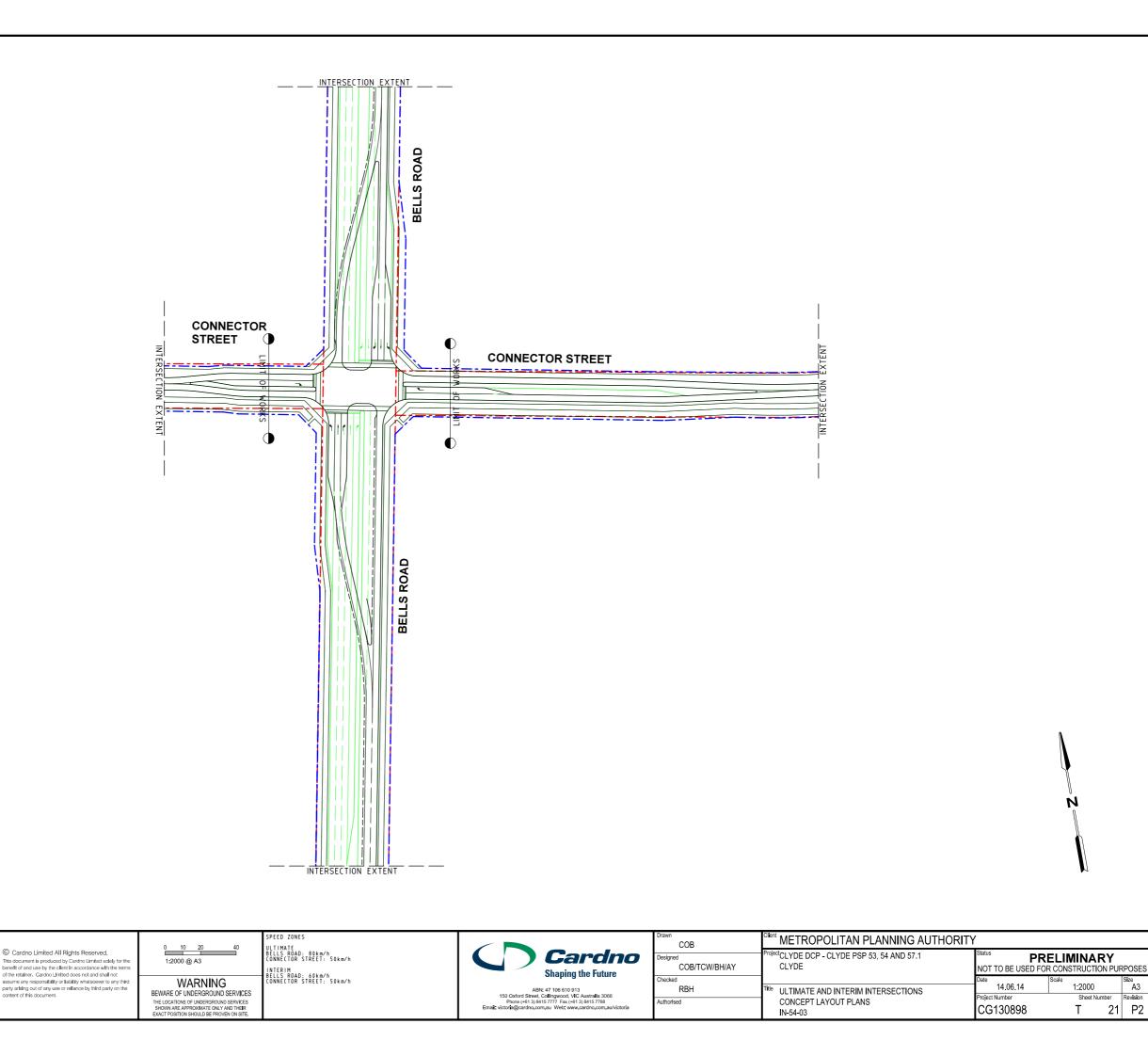
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PEED ZONES ULTIMATE TUCKERS ROAD: 60km/h CONNECTOR STREET: 50km/h INTERIM TUCKERS ROAD: 60km/h CONNECTOR STREET: 50km/h

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Checked RBH	Title ULTIMATE AND INTERIM INTERSECTIONS	Date 14.06.14	Scale 1:2000		Size A3
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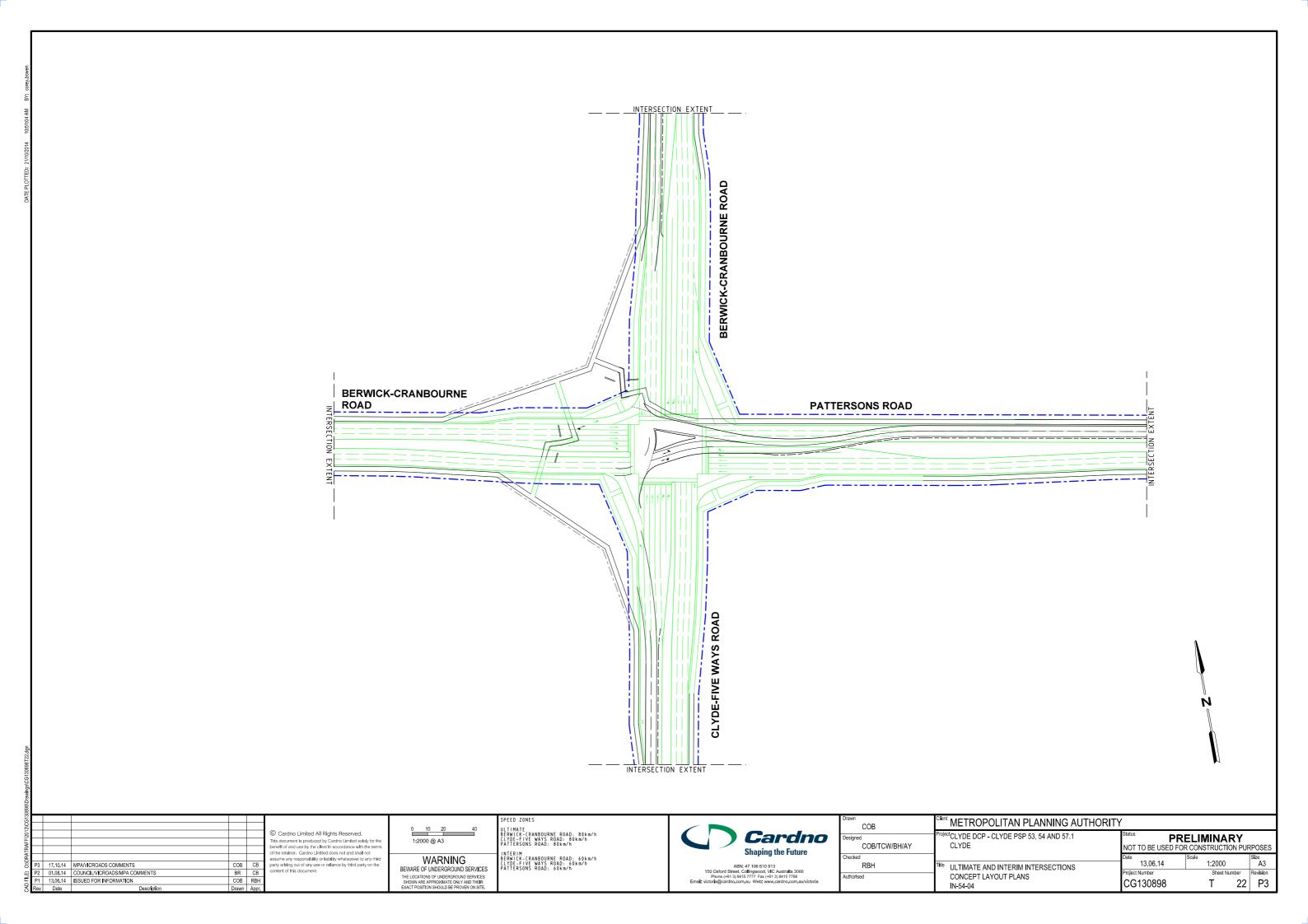
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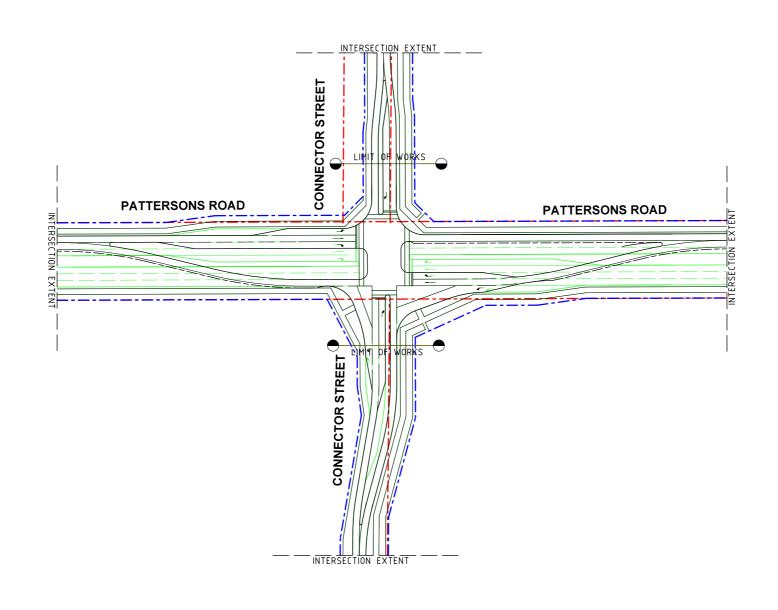
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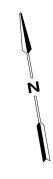
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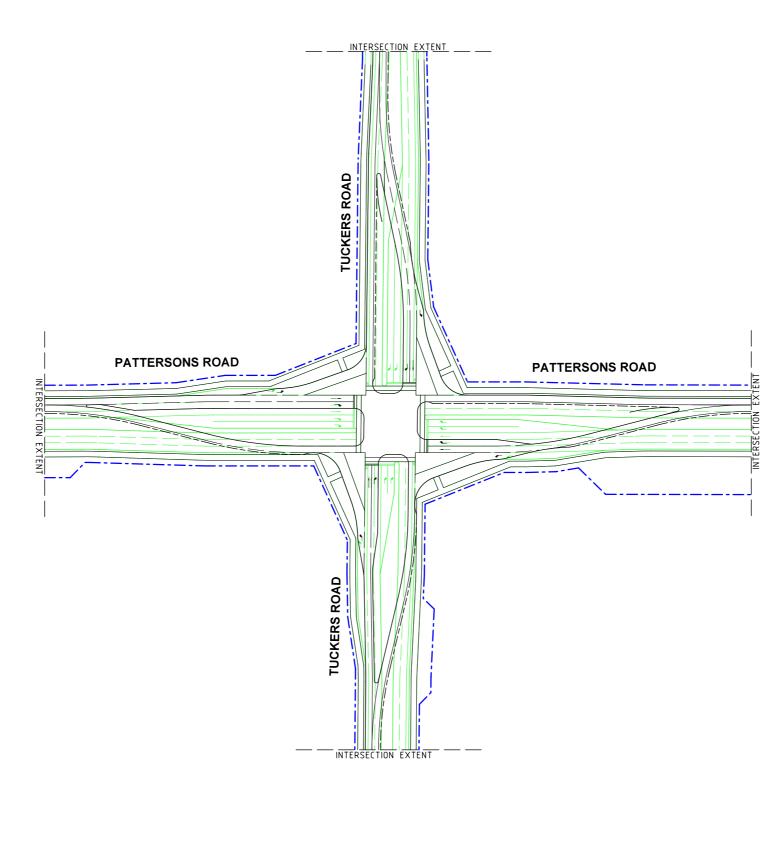
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VILTIMATE
PATTERSONS ROAD: 80km/h
CONNECTOR STREET: 50km/h
INTERIM
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CONNECTOR STREET: 50km/h

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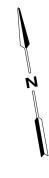
WARNING
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ULTIMATE
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TUCKERS ROAD: 60km/h
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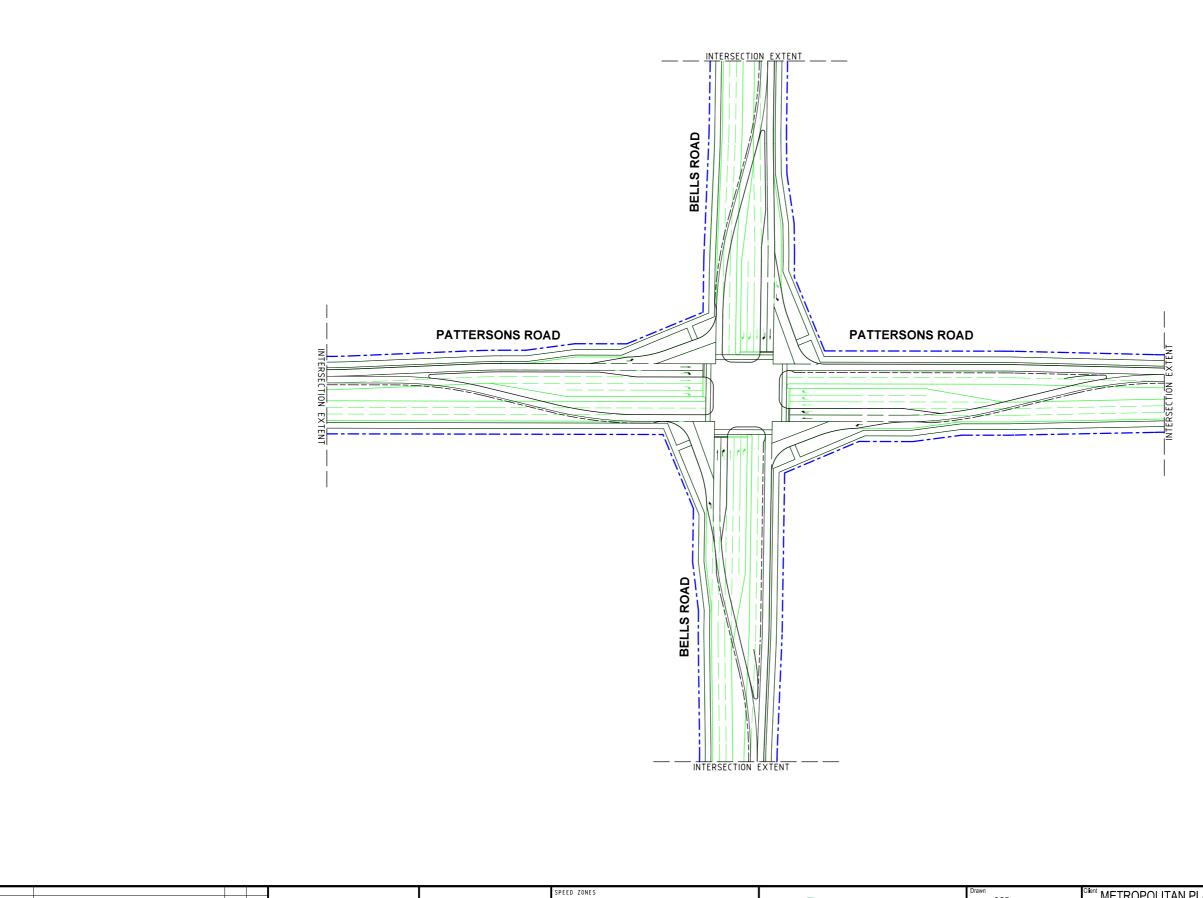
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ULTIMATE
PATTERSONS ROAD: 80km/h
CONNECTOR STREET: 50km/h
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PATTERSONS ROAD: 60km/h
CONNECTOR STREET: 50km/h

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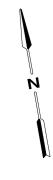
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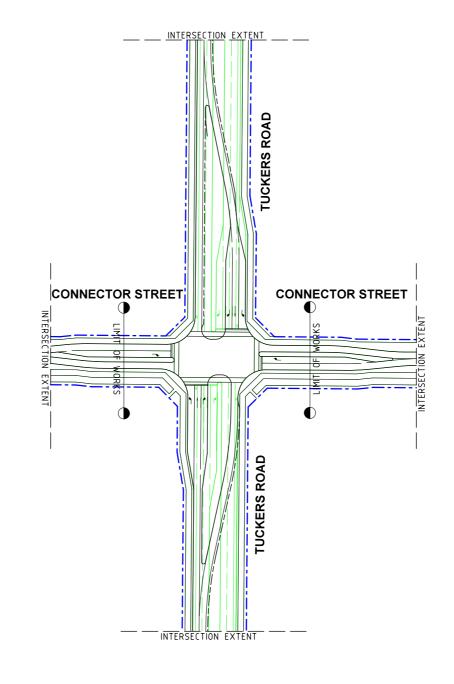
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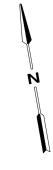
ULTIMATE
CLYDE-FIVE WAYS ROAD: 80km/h
CONNECTOR STREET: 50km/h
INTERIM
CLYDE-FIVE WAYS ROAD: 60km/h
CONNECTOR STREET: 50km/h



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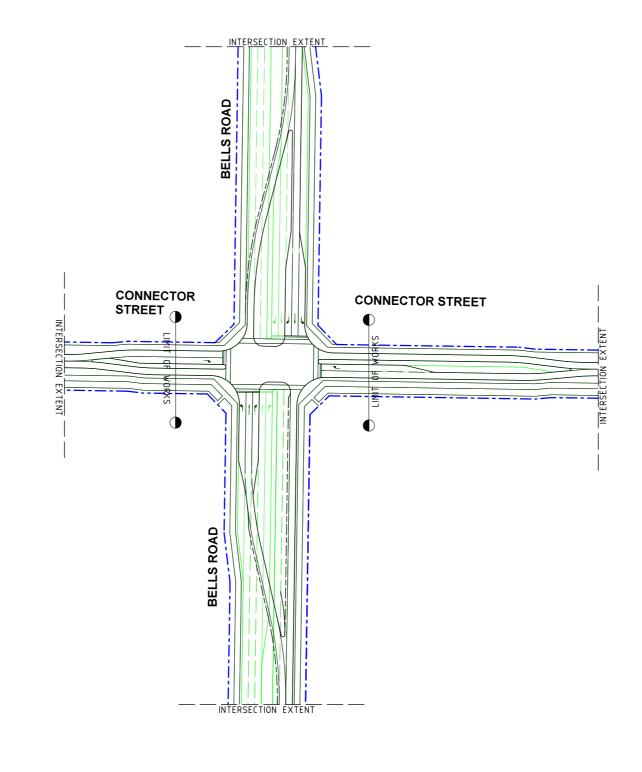
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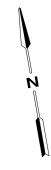
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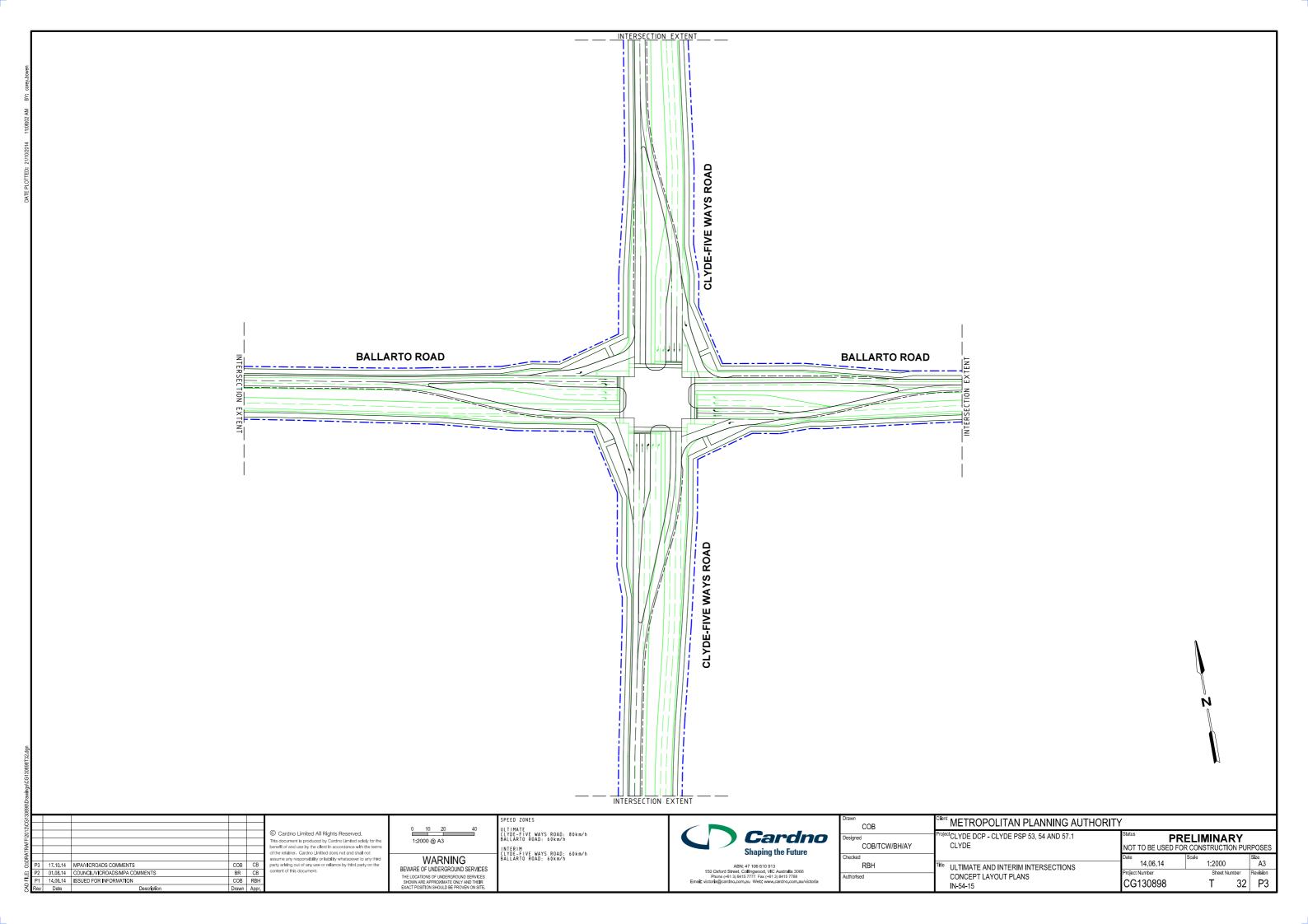
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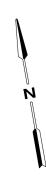
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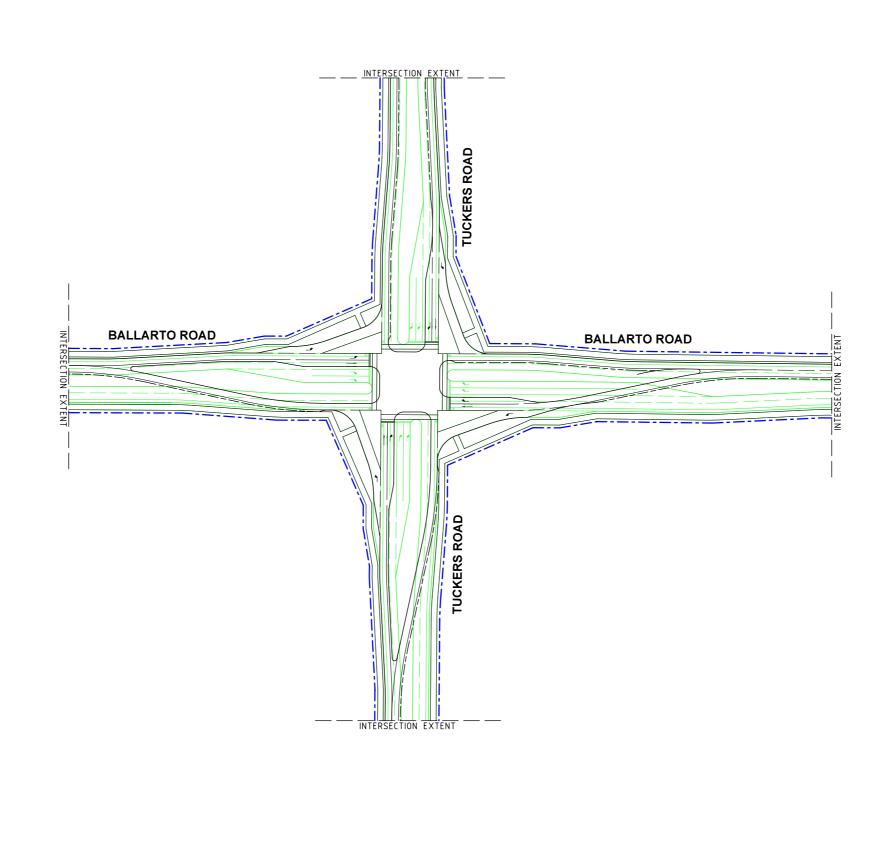
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ULTIMATE
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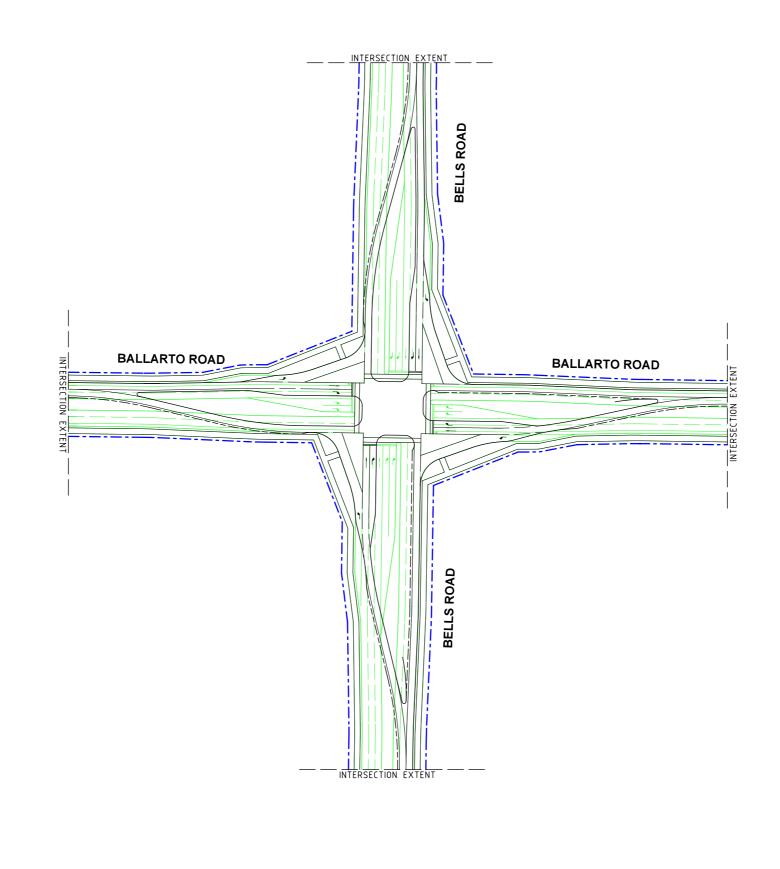
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ULTIMATE
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SPEED ZONES

ULTIMATE
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CONNECTOR STREET: 50km/h
INTERIM
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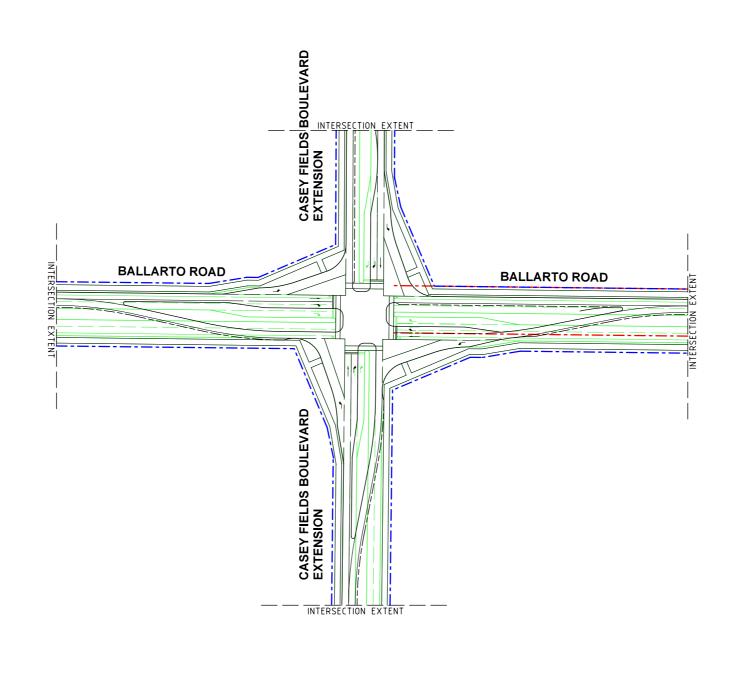
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CASEY FIELDS BOULEVARD EXTENSION: 60km/h
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BALLARTO ROAD: 60km/h
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INTERIM
BALLARTO ROAD: 60km/h
CASEY FIELDS BOULEVARD EXTENSION: 60km/h

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7.5 Interim intersection costing sheets



PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS SUMMARY SHEET CG130898 Clyde PSP - Intersection Cost Estimate 20 August 2015

ITEM	DESCRIPTION	\Box	IN-53-01		IN-53-02	IN-	-53-03		IN-53-04	IN-53-05		IN-53-06	IN-53-07	IN-53-08	ı	N-53-09	- II	N-53-10
	DRAWING SHEET REFERENCE	\top	T02	Π	T03	•	T04		T05	T06		T07	T08	T09		T10		T111
A	Project and Program Management (5%)	\$	316,435	\$	177,076	\$	164,244	\$	235,734	\$ 142,238	\$	151,479	\$ 170,683	\$ 159,496	\$	129,382	\$	116,242
В	Design and Investigation (10%)	\$	632,869	\$	354,152	\$	328,488	\$	471,468	\$ 284,475	\$	302,957	\$ 341,367	\$ 318,992	\$	258,765	\$	232,485
С	Construction including Final Design	\$	6,328,692	\$	3,541,520	\$ 3	3,284,880	\$	4,714,676	\$ 2,844,751	\$	3,029,572	\$ 3,413,667	\$ 3,189,921	\$	2,587,650	\$	2,324,850
	TOTAL A - C	\$	7,277,995	\$	4,072,748	\$ 3	3,777,612	\$	5,421,877	\$ 3,271,463	\$	3,484,008	\$ 3,925,716	\$ 3,668,409	\$	2,975,797	\$	2,673,577
D	CONTINGENCY																	
	Contingency (15% of C)	\$	949,304	\$	531,228	\$	492,732	\$	707,201	\$ 426,713	\$	454,436	\$ 512,050	\$ 478,488	\$	388,147	\$	348,727
E	PROJECT BUDGET																	
	Total Estimate	\$	8,227,299	\$	4,603,976	\$ 4	4,270,344	\$	6,129,078	\$ 3,698,176	\$	3,938,444	\$ 4,437,766	\$ 4,146,897	\$	3,363,945	\$	3,022,305
Notes:		·																
Shown thus	Intersection affected by Aboriginal Cultural heritage sensitivity model																	
	Intersection with associated culverts				BR-53-01	BR	2-53-02	BR	-53-03		BR	-53-04						

Due to flat topography of the area, no major cut/fill works have been included for road

Substations

Version 8.1

1 No allowance for substations

Preliminaries

2 Based on nominal rates

Subsoil Drain

3 Assume same as kerb and channel

Side Entry Pits

4 Based on 50 m intervals

Tactile Pavers

5 Assume hazard TGSI's (no directional)

Signing

.

Pavement

6 Nominal rate

_ _

7 Assume deep lift ashpalt pavement

Tree Removal

8 Based on preliminary information

Roads

9 Where applicable, existing road conditions based on limited crushed rock roads

assumed to be of no consequence to works

10 Where applicable, existing asphalt roads to be demolished as part of

intersection works

AUTHOR: Harrendran Mohan

Date: 14/10/2014

REVIEWER: Rob Henry



PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS SUMMARY SHEET CG130898 Clyde PSP - Intersection Cost Estimate 20 August 2015

ITEM	DESCRIPTION		IN-53-11		IN-53-12	IN-53-13	IN-53-14		IN-53-15		IN-53-16		IN-53-17	IN-53-18	I	N-54-01	I	N-54-02
	DRAWING SHEET REFERENCE	Т	T12	П	T13	T14	T15		T16		T17		T18	T41		T19		T20
Α	Project and Program Management (5%)	\$	173,066	\$	206,988	\$ 128,610	\$ 115,699	\$	194,955	\$	129,837	\$	159,711	\$ 111,730	\$	46,676	\$	125,030
В	Design and Investigation (10%)	\$	346,131	\$	413,976	\$ 257,219	\$ 231,398	\$	389,911	\$	259,674	\$	319,423	\$ 223,459	\$	93,351	\$	250,060
С	Construction including Final Design	\$	3,461,313	\$	4,139,762	\$ 2,572,191	\$ 2,313,982	\$	3,899,107	\$	2,596,741	\$	3,194,226	\$ 2,234,592	\$	933,515	\$	2,500,600
	TOTAL A - C	\$	3,980,510	\$	4,760,726	\$ 2,958,020	\$ 2,661,079	\$	4,483,973	\$	389,511	\$	3,673,360	\$ 2,569,781	\$	1,073,542	\$	2,875,690
D	CONTINGENCY																	
	Contingency (15% of C)	\$	519,197	\$	620,964	\$ 385,829	\$ 347,097	\$	584,866	\$	3,375,764	\$	479,134	\$ 335,189	\$	140,027	\$	375,090
E	PROJECT BUDGET																	
	Total Estimate	\$	4,499,707	\$	5,381,691	\$ 3,343,848	\$ 3,008,176	\$	5,068,839	\$	3,765,275	\$	4,152,494	\$ 2,904,970	\$	1,213,569	\$	3,250,780
Notes:																		
Shown thus	Intersection affected by Aboriginal Cultural heritage sensitivity model																	
	Intersection with associated culverts	BF	R-53-05					BF	R-54-04	BR	-54-05	BR	-53-06				BR-	54-07

Due to flat topography of the area, no major cut/fill works have been included for

Substations

Version 8.1

1 No allowance for substations

Preliminaries

2 Based on nominal rates

Subsoil Drain

3 Assume same as kerb and channel

Side Entry Pits

4 Based on 50 m intervals

Tactile Pavers

5 Assume hazard TGSI's (no directional)

Assume mazaru 10013 (no directione

Signing

6 Nominal rate

Pavement

7 Assume deep lift ashpalt pavement

Tree Removal

8 Based on preliminary information

Roads

9 Where applicable, existing road conditions based on limited crushed rock roads

assumed to be of no consequence to works

10 Where applicable, existing asphalt roads to be demolished as part of

intersection works

AUTHOR: Harrendran Mohan

Date: 14/10/2014

REVIEWER: Rob Henry



PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS SUMMARY SHEET CG130898 Clyde PSP - Intersection Cost Estimate 20 August 2015

ITEM	DESCRIPTION		IN-54-03		IN-54-04	IN-54-05	IN-54-06		IN-54-07	IN-54-09		IN-54-11	IN-54-12	N-54-13	IN	N-54-14
	DRAWING SHEET REFERENCE	\top	T21	П	T22	T23	T24	Г	T25	T27		T28	T29	T30		T31
A	Project and Program Management (5%)	\$	127,964	\$	93,548	\$ 133,260	\$ 188,100	\$	126,030	\$ 116,398	\$	121,994	\$ 127,490	\$ 96,696	\$	101,914
В	Design and Investigation (10%)	\$	255,929	\$	187,096	\$ 266,519	\$ 376,199	\$	252,060	\$ 232,796	\$	243,988	\$ 254,980	\$ 193,391	ò	203,828
С	Construction including Final Design	\$	2,559,287	\$	1,870,964	\$ 2,665,190	\$ 3,761,993	\$	2,520,596	\$ 2,327,963	\$	2,439,882	\$ 2,549,797	\$ 1,933,911	5	2,038,276
	TOTAL A - C	\$	2,943,180	\$	2,151,609	\$ 3,064,969	\$ 4,326,292	\$	2,898,685	\$ 2,677,158	\$	2,805,864	\$ 2,932,266	\$ 2,223,998	5	2,344,018
D	CONTINGENCY															
	Contingency (15% of C)	\$	383,893	\$	280,645	\$ 399,779	\$ 564,299	\$	378,089	\$ 349,194	\$	365,982	\$ 382,470	\$ 290,087	ŝ	305,741
E	PROJECT BUDGET															
	Total Estimate	\$	3,327,073	\$	2,432,254	\$ 3,464,748	\$ 4,890,591	\$	3,276,775	\$ 3,026,352	\$	3,171,846	\$ 3,314,736	\$ 2,514,085	\$	2,649,759
Notes:																
Shown thus	Intersection affected by Aboriginal Cultural heritage sensitivity model															
	Intersection with associated culverts										BR	-54-14				

Due to flat topography of the area, no major cut/fill works have been included for

Substations

Version 8.1

1 No allowance for substations

Preliminaries

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Subsoil Drain

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Side Entry Pits

4 Based on 50 m intervals

Tactile Pavers

5 Assume hazard TGSI's (no directional)

Signing

Assume mazara 10013 (no directions

Pavement

6 Nominal rate

_ _

7 Assume deep lift ashpalt pavement

Tree Removal

8 Based on preliminary information

Roads

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intersection works

AUTHOR: Harrendran Mohan

Date: 14/10/2014

REVIEWER: Rob Henry



PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS

SUMMARY SHEET CG130898 Clyde PSP - Intersection Cost Estimate 20 August 2015 Version 8.1

ITEM	DESCRIPTION	Т	IN-54-15	IN-54-20	Π	IN-57.1-01	IN-57.1-02	IN-57.1-03	IN-57.1-04	Total Precinct
	DRAWING SHEET REFERENCE	Т	T32	T36	П	T37	T38	T39	T40	Cost
Α	Project and Program Management (5%)	\$	253,662	\$ 186,974	\$	125,802	\$ 133,424	\$ 101,228	\$ 171,916	\$ 5,361,707
В	Design and Investigation (10%)	\$	507,323	\$ 373,947	\$	251,603	\$ 266,848	\$ 202,455	\$ 343,832	\$ 10,723,415
С	Construction including Final Design	\$	5,073,232	\$ 3,739,474	\$	2,516,031	\$ 2,668,479	\$ 2,024,551	\$ 3,438,317	\$ 107,234,150
	TOTAL A - C	\$	5,834,216	\$ 4,300,395	\$	2,893,435	\$ 3,068,751	\$ 2,328,234	\$ 3,954,065	\$ 120,722,531
D	CONTINGENCY									
	Contingency (15% of C)	\$	760,985	\$ 560,921	\$	377,405	\$ 400,272	\$ 303,683	\$ 515,748	\$ 19,071,375
E	PROJECT BUDGET									
	Total Estimate	\$	6,595,201	\$ 4,861,316	\$	3,270,840	\$ 3,469,023	\$ 2,631,917	\$ 4,469,812	\$ 139,793,906
Notes:	•									-
Shown thus	Intersection affected by Aboriginal Cultural heritage sensitivity model									
	Intersection with associated culverts									

Due to flat topography of the area, no major cut/fill works have been included for

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- Daood on oo m morvaio

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_ _

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Tree Removal

8 Based on preliminary information

Roads

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10 Where applicable, existing asphalt roads to be demolished as part of

intersection works

AUTHOR: Harrendran Mohan

Date: 14/10/2014

REVIEWER: Rob Henry



Version 8.1

PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS

CG130898

Intersection Ref:	ection Cost Estimate IN-53-01 Amended design as per VicRoads and MPA comment T02	s SEP 2014							
ITEM	DESCRIPTION	QUANTITY	UNIT		RATE		AMOUNT] :	SUBTOTAL
A	Project and Program Management (5%)	Q.7	<u> </u>					\$	316,435
	Project Management		3.00%		0.00%	\$	189,861	1	
	Project scoping, planning, scheduling, monitoring,						,		
	reporting and commissioning								
	Management of preconstruction activities, development of								
	tender documents and management of contracts Managing external interfaces, including community								
	liaison, environmental issues, traffic issues etc								
	Records management								
	Program Administration		2.00%		0.00%	\$	126,574		
В	Design and Investigation (10%)							\$	632,869
	Traffic Investigations		0.85%		0.00%	\$	53,794		
	Cadastral and Engineering Survey		1.20%		0.00%	\$	75,944		
	Geotechnical investigations Pavement Investigations and		1 200/		0.00%	•	75.044		
	Design Environmental Investigations		1.20%		0.00%	\$	75,944		
	Landscape Design				0.00%	\$			
	Preliminary and Final Design		4.25%		0.00%	\$	268,969		
	Construction Management		2.50%		0.00%	\$	158,217		
						. +	0%		
С	Construction					\$	6,328,692	\$	6,328,692
1	PRELIMINARIES							\$	325,000
1.1	Site establishment (2.5% of total construction cost)	1	Item	\$	160,000	\$	160,000		
1.2	Site management & supervision including QA	26	wks	\$	2,500	\$	65,000		
1.3	Provision for traffic	1	Item	\$	100,000	\$	100,000		
1.4	Cultural Heritage contigency	1	Item	_		\$	-		
2	DEMOLITION			_				\$	156,078
2.1	Trees	150	No No	\$	500	\$	75,000		
2.2	Plane existing ashpalt EARTHWORKS	13,513	m²	\$	6	\$	81,078	•	477.740
3	Stripping topsoil (100mm)	10,527	m²	\$	6	\$	63,162	\$	477,746
3.2	Excavation and removal	11,793	m³	\$	30	\$	353,775		
3.3	Stockpile reclaimed FCR	4,054	m³	\$	15	\$	60,809		
4	PAVEMENT	1,001	***	+		T T	00,000	\$	2,978,800
4.1	Deep lift asphalt 195 mm	19,900	m²	\$	85	\$	1,691,500	Ť	,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
4.2	Subbase course - 250 mm 3% CTCR	23,585	m²	\$	45	\$	1,061,325		
4.3	Shoulder - full depth pavement	455	m²	\$	145	\$	65,975		
4.4	Subgrade Improvement (2.5% of total construction cost)	1	Item	\$	160,000	\$	160,000		
5	DRAINAGE							\$	527,025
5.1	Subsoil drains 100mm dia - screenings	3,685	Lm	\$	30	\$	110,550		
5.2	Subsoil drains 100mm dia - no fines conc	455	Lm	\$	45	\$	20,475		
5.3	375 RCP (class 2)	1,800	Lm	\$	170	\$	306,000		
5.4	Side entry pits	36	No	\$	2,500	\$	90,000	•	000 575
6	CONCRETE WORKS	2 605	l m	0	F0	0	194 250	\$	629,575
6.1	Kerb &channel	3,685	Lm	\$	50	\$	184,250		
J. <u>L</u>	Footpath/Shared Path (125 mm, residential, as per MPA)	2,010	Lm	\$	130	\$	261,300		
6.3	Laybacks and tactile pavers	22	No	\$	850	-	18,700		
6.4	Concrete island infill	1,345	m²	\$	85	\$	114,325		
6.5	10m concrete maintenace area	600	m²	\$	85	\$	51,000		
7	TRAFFIC SIGNAL WORKS							\$	300,000
7.1	General items	1	Item	\$	30,000	\$	30,000		
7.2	Conduits	1	Item	\$	24,000	\$	24,000		
7.3	Pedestals	1	Item	\$	60,000	\$	60,000		
7.4	Lanterns	1	Item	\$	24,000	\$	24,000		
7.5	Controller Detectors	1	Item	\$	90,000	\$	90,000		
7.6	Cabling & connections	1	Item Item	\$	12,000 48,000	\$	12,000 48.000		
7.8	Clean-up	1	Item	\$	12,000	\$	12,000		
8	SIGNAL MAINTENANCE (10 YEARS) by Road Authority	1	item	\$	100,000	\$	100,000	\$	100,000
9	POWER & LIGHTING	,		1	,	Ė	,,,,,,,,,	\$	405,000
9.1	Light pole (1-way) and luminous lights	30	No	\$	8,000	\$	240,000		
9.2	Light pole (2-way) and luminous lights	6	No	\$	9,000	\$	54,000		
9.3	JUP lighting single	12	No	\$	4,000		48,000		
9.4	JUP lighting dual	-	No	\$	5,000	_	-		
9.5	Cabling, conduits and pits	1	Item	\$	50,000		50,000		
9.6	Electrical connection	1	Item	\$	13,000	\$	13,000		



Version 8.1

PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS

CG130898

Clyde PSP - Intersection Cost Estimate

Intersection Ref: IN-53-01

Amended design as per VicRoads and MPA comments SEP 2014

Sheet Ref: T02

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	AMOUNT	SUBTOTAL
10	LANDSCAPING WORKS	QO/UTTT	J.III	10112	7.III.O O I I I	\$ 96,968
10.1	Topsoiling seeding	11,408	m²	\$ 8.50	\$ 96,968	
11	SIGNING	1	item	\$ 7,500	\$ 7,500	\$ 7,500
12	LINEMARKING (Thermoplastic)	1	item	\$ 25,000	\$ 25,000	\$ 25,000
13	SERVICE RELOCATION					\$ 300,000
13.1	Water, gas, telstra (adopted allowance)	1	Item	\$ 150,000	\$ 150,000	
13.2	Overhead electrical (adopted allowance)	1	Item	\$ 150,000	\$ 150,000	
14	MISCELLANEOUS					\$ -
15	PROVISIONAL SUM - DAYWORK		item		\$ -	\$ -

	TOTAL A - C			\$ 7,277,995	\$ 7,277,995
D	Contingency				
	Contingency (15% of C)			15%	\$ 949,303.73
Е	PROJECT BUDGET				
	Total Estimate				\$ 8,227,299

Notes:

- Due to flat topography of the area, no major cut/fill works have been included for road

Substations

1 No allowance for substations

Preliminaries

2 Based on nominal rates

Subsoil Drain

3 Assume same as kerb and channel

Side Entry Pits

4 Based on 50 m intervals

Tactile Pavers

5 Assume hazard TGSI's (no directional)

Signing

6 Nominal rate

Pavement

7 Assume deep lift ashpalt pavement

9 Crushed rock reclaimed from existing pavements to be reused

8

10 Based on preliminary information

9

10 Assume all existing asphalt roads to be demolished and FCR stockpiled

Option of the 28,550 m² pavement, there is 7,140 m² of the existing pavement that may be able to be retained; this is not priced

13 Assume crushed rock pavement will be removed as part of general earthworks

AUTHOR: Harrendran Mohan Date: 14/10/2014

REVIEWER: Rob Henry Date: 14/10/2014



PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS

CG130898

Clyde PSP - Intersection Co

Intersection Ref: IN-53-

Sheet Ref: T03

	Version 8.1
ection Cost Estimate	
IN-53-02	
Amended design as per VicRoads and MPA comments Sep 2014	

Sheet Ref:	T03	OHANTITY	LINUT	DATE	1	AMOUNT		UDTOTAL
ITEM	DESCRIPTION Project and Program Management (5%)	QUANTITY	UNIT	RATE		AMOUNT	\$	UBTOTAL 477.076
Α	Project Management		3.00%	0.00%	\$	106,246	Þ	177,076
	Project Management Project scoping, planning, scheduling, monitoring,		3.00 /6	0.00%	Ψ	100,240		
	reporting and commissioning							
	roporting and commissioning							
	Management of preconstruction activities, development							
	of tender documents and management of contracts							
	Managing external interfaces, including community							
	liaison, environmental issues, traffic issues etc							
	Records management Program Administration		2.00%	0.00%	\$	70,830		
	Frogram Administration		2.00%	0.00%	φ	70,030		
В	Design and Investigation (10%)						\$	354,152
	Traffic Investigations		0.85%	0.00%	\$	30,103	_	00 1,102
	Cadastral and Engineering Survey		1.20%	0.00%	\$	42,498		
	Geotechnical investigations Pavement Investigations					,		
	and Design		1.20%	0.00%	\$	42,498		
	Environmental Investigations			0.00%	\$	-		
	Landscape Design			0.00%	\$			
	Preliminary and Final Design		4.25%	0.00%	\$	150,515		
	Construction Management		2.50%	0.00%	\$	88,538		
С	Construction				\$	3,541,520	\$	3,541,520
1	PRELIMINARIES				φ	0,041,020	\$	196,000
1.1	Site establishment (2.5% of total construction cost)	1	Item	\$ 90,000	\$	90,000	Ψ	190,000
1.2	Site management & supervision including QA	20	wks	\$ 2,500	_	50,000		
1.3	Provision for traffic	1	Item	\$ 56,000	_	56,000		
1.4	Cultural Heritage contigency	1	Item	V 55,555	\$	-		
2	DEMOLITION				Ť		\$	30,000
2.1	Trees	60	No	\$ 500	\$	30,000		
3	EARTHWORKS						\$	193,110
3.1	Stripping topsoil (100mm)	7,010	m²	\$ 6	\$	42,060		
3.2	Excavation and removal	5,035	m³	\$ 30	\$	151,050		
4	PAVEMENT				1		\$	1,573,050
4.1	Deep lift asphalt 195 mm	8,380	m²	\$ 105	+ -	879,900		
4.2	Subbase course - 250 mm 3% CTCR	10,070	m²	\$ 55	-	553,850		
4.3	Shoulder - full depth pavement	340	m ²	\$ 145 \$ 90,000	-	49,300		
5	Subgrade Improvement (2.5% of total construction cost) DRAINAGE	1	Item	\$ 90,000	\$	90,000	\$	308,000
5.1	Subsoil drains 100mm dia - screenings	1,690	Lm	\$ 30	\$	50,700	Ψ	300,000
5.2	Subsoil drains 100mm dia - no fines conc	340	Lm	\$ 45	-	15,300		
5.3	375 RCP (class 2)	1,100	Lm	\$ 170	_	187,000		
5.4	Side entry pits	22	No	\$ 2,500	+ -	55,000		
6	CONCRETE WORKS			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Ť	,	\$	300,250
6.1	Kerb &channel	1,690	Lm	\$ 50	\$	84,500		
6.2	Footpath/Shared Path (125 mm, residential, as per							
	MPA)	960	Lm	\$ 130		124,800		
6.4	Laybacks and tactile pavers	18	No	\$ 850	-	15,300		
6.5	Concrete island infill	570	m²	\$ 85	_	48,450		
6.5	10m concrete maintenace area TRAFFIC SIGNAL WORKS	320	m²	\$ 85	\$	27,200	•	275.000
7	General items	4	Itom	¢ 27.500	0	27 500	\$	275,000
7.1 7.2	Conduits	1	Item Item	\$ 27,500 \$ 22,000	_	27,500 22,000		
7.3	Pedestals	1	Item	\$ 22,000	-	55,000		
7.4	Lanterns	1	Item	\$ 22,000		22,000		
7.5	Controller	1	Item	\$ 82,500	_	82,500		
7.6	Detectors	1	Item	\$ 11,000	-	11,000		
7.7	Cabling & connections	1	Item	\$ 44,000	-	44,000		
7.8	Clean-up	1	Item	\$ 11,000	-	11,000		
8	SIGNAL MAINTENANCE (10 YEARS) by Road							
	Authority	1	item	\$ 100,000	\$	100,000	\$	100,000
9	POWER & LIGHTING						\$	195,500
9.1	Light pole (1-way) and luminous lights	4	No	\$ 8,000	-	32,000		
9.2	Light pole (2-way) and luminous lights	8	No	\$ 9,000	_	72,000		
9.3	JUP lighting single	6	No	\$ 4,000	-	24,000		
9.4	JUP lighting dual	2	No	\$ 5,000	-	10,000		
9.5	Cabling, conduits and pits	1	Item Item	\$ 40,000 \$ 17,500	-	40,000 17,500		
9.6	Electrical connection							



Version 8.1

PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS

CG130898

Clyde PSP - Intersection Cost Estimate

Intersection Ref: IN-53-02

Amended design as per VicRoads and MPA comments Sep 2014

Sheet Ref: T03

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	П	AMOUNT	SUBTOTAL
10	LANDSCAPING WORKS						\$ 38,110
10.1	Topsoiling seeding	4,484	m²	\$ 8.50	\$	38,110	
11	SIGNING	1	item	\$ 7,500	\$	7,500	\$ 7,500
12	LINEMARKING (Thermoplastic)	1	item	\$ 25,000	\$	25,000	\$ 25,000
13	SERVICE RELOCATION						\$ 300,000
13.1	Water, gas, telstra (adopted allowance)	1	Item	\$ 150,000	\$	150,000	
13.2	Overhead electrical (adopted allowance)	1	Item	\$ 150,000	\$	150,000	
14	MISCELLANEOUS						\$ -
15	PROVISIONAL SUM - DAYWORK		item		\$	-	\$ -

	TOTAL A - C		\$	4,072,748	\$ 4,072,748
D	Contingency				
	Contingency (15% of C)			15%	\$ 531,227.96
	·				

E	PROJECT BUDGET			
	Total Estimate			\$ 4,603,976

Notes:

- Due to flat topography of the area, no major cut/fill works have been included for road

Substations

1 No allowance for substations

Preliminaries

2 Based on nominal rates

Subsoil Drain

3 Assume same as kerb and channel

Side Entry Pits

4 Based on 50 m intervals

Tactile Pavers

5 Assume hazard TGSI's (no directional)

Signing

6 Nominal rate

Pavement

7 Assume deep lift ashpalt pavement

Tree Removal

8 Based on preliminary information

Roads

9 Existing road conditions based on limited crushed rock roads running E-W assumed to be of no consequence to works

AUTHOR: Harrendran Mohan

Date: 14/10/2014

REVIEWER: Rob Henry Date: 14/10/2014



Version 8.1

PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS

CG130898

Clyde PSP - Intersection Cost Estimate

Intersection Ref: IN-53-03

Intersection Ref:	IN-53-03 Amended design as per VicRoads and MPA commo	ents Sep 2014							
Sheet Ref:	T04 DESCRIPTION	QUANTITY	UNIT	l RA	ATE		AMOUNT	S	SUBTOTAL
Α	Project and Program Management (5%)		<u> </u>					\$	164,244
	Project Management		3.00%	0.0	00%	\$	98,546		
	Project scoping, planning, scheduling, monitoring,								
	reporting and commissioning								
	Management of preconstruction activities, development								
	of tender documents and management of contracts Managing external interfaces, including community								
	liaison, environmental issues, traffic issues etc								
	Records management								
	Program Administration		2.00%	0.0	00%	\$	65,698		
В	Design and Investigation (10%)							\$	328,488
В	Traffic Investigations		0.85%	0.1	00%	\$	27,921	Φ	320,460
	Cadastral and Engineering Survey		1.20%		00%	\$	39,419		
	Geotechnical investigations Pavement Investigations								
	and Design		1.20%		00%	\$	39,419		
	Environmental Investigations				00% 00%	\$	-		
	Landscape Design Preliminary and Final Design		4.25%		00%	\$	139,607		
	Construction Management		2.50%		00%	\$	82,122		

С	Construction					\$	3,284,880	\$	3,284,880
1	PRELIMINARIES							\$	189,000
1.1	Site establishment (2.5% of total construction cost)	1	Item	\$	83,000	\$	83,000		
1.2	Site management & supervision including QA Provision for traffic	20	wks Item	\$ \$	2,500 56.000	\$ \$	50,000 56,000		
1.4	Cultural Heritage contigency	1	Item	Ψ	30,000	\$	- 30,000		
2	DEMOLITION	-				Ť		\$	10,000
2.1	Trees	20	No	\$	500	\$	10,000		
3	EARTHWORKS							\$	177,525
3.1	Stripping topsoil (100mm)	6,400	m²	\$	6	\$	38,400		
3.2	Excavation and removal PAVEMENT	4,638	m³	\$	30	\$	139,125	\$	1,456,475
4.1	Deep lift asphalt 195 mm	7,815	m²	\$	105	\$	820,575	Ψ	1,430,473
4.2	Subbase course - 250 mm 3% CTCR	9,275	m²	\$	55	\$	510,125		
4.3	Shoulder - full depth pavement	295	m²	\$	145	\$	42,775		
4.4	Subgrade Improvement (2.5% of total construction cost)	1	Item	\$	83,000	\$	83,000		
5	DRAINAGE							\$	266,075
5.1 5.2	Subsoil drains 100mm dia - screenings Subsoil drains 100mm dia - no fines conc	1,460 295	Lm Lm	\$ \$	30 45	\$	43,800 13,275		
5.3	375 RCP (class 2)	950	Lm	\$	170	\$	161,500		
5.4	Side entry pits	19	No	\$	2,500	\$	47,500		
6	CONCRÉTE WORKS				,		,	\$	256,500
6.1	Kerb &channel	1,460	Lm	\$	50	\$	73,000		
6.2	Footpath/Shared Path (125 mm, residential, as per	005	1	_	400	•	440.050		
6.4	MPA) Laybacks and tactile pavers	895 16	Lm No	\$ \$	130 850	_	116,350 13,600		
6.5	Concrete island infill	375	m ²	\$	85	\$	31,875		
6.5	10m concrete maintenace area	255	m²	\$	85	_	21,675		
7	TRAFFIC SIGNAL WORKS							\$	275,000
7.1	General items	1	Item	\$	27,500	_	27,500		
7.2	Conduits	1	Item	\$	22,000	_	22,000		
7.3	Pedestals Lanterns	1 1	Item Item	\$ \$	55,000 22,000		55,000 22,000		
7.5	Controller	1	Item	\$	82,500	<u> </u>	82,500		
7.6	Detectors	1	Item	\$	11,000		11,000		
7.7	Cabling & connections	1	Item	\$	44,000	\$	44,000		
7.8	Clean-up	1	Item	\$	11,000	\$	11,000		
8	SIGNAL MAINTENANCE (10 YEARS) by Road		٠,				400.000	_	100.000
9	Authority POWER & LIGHTING	1	item	\$	100,000	\$	100,000	\$	100,000 195,500
9.1	Light pole (1-way) and luminous lights	4	No	\$	8,000	2	32,000	Ψ	190,000
9.2	Light pole (1-way) and luminous lights Light pole (2-way) and luminous lights	8	No	\$	9,000	_	72,000		
9.3	JUP lighting single	6	No	\$	4,000	_	24,000		
9.4	JUP lighting dual	2	No	\$	5,000	\$	10,000		
9.5	Cabling, conduits and pits	1	Item	\$	40,000	\$	40,000		
9.6	Electrical connection	1	Item	\$	17,500	\$	17,500	· C	00.00=
10	LANDSCAPING WORKS	0.05-	_		0.50		00.005	\$	26,305

3,095

m²

item

item

\$

\$

Topsoiling seeding SIGNING

LINEMARKING (Thermoplastic)

10.1

11

12

7,500

25,000

8.50 \$ 7,500 \$

25,000 \$

26,305

7,500 \$

25,000 \$



20 August 2015

Version 8.1

492,732.06

PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS

CG130898

Clyde PSP - Intersection Cost Estimate

Intersection Ref: IN-53-03

Amended design as per VicRoads and MPA comments Sep 2014

Sheet Ref:

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	AMOUNT	S	UBTOTAL
13	SERVICE RELOCATION					\$	300,000
13.1	Water, gas, telstra (adopted allowance)	1	Item	\$ 150,000	\$ 150,000		
13.2	Overhead electrical (adopted allowance)	1	Item	\$ 150,000	\$ 150,000		
14	MISCELLANEOUS					\$	-
15	PROVISIONAL SUM - DAYWORK		item		\$ -	\$	-
	·						
	TOTAL A - C				\$ 3,777,612	\$	3,777,612
D	Contingency						

	Contingency (15% of C)		15%	\$ 492,732.06
E	PROJECT BUDGET			
	Total Estimate			\$ 4,270,344

Notes:

- Due to flat topography of the area, no major cut/fill works have been included for road

Substations

1 No allowance for substations

Preliminaries

2 Based on nominal rates

Subsoil Drain

3 Assume same as kerb and channel

Side Entry Pits Tactile Pavers

4 Based on 50 m intervals

5 Assume hazard TGSI's (no directional)

Signing

6 Nominal rate

Pavement

7 Assume deep lift ashpalt pavement

Tree Removal

8 Based on preliminary information

Roads

9 Existing road conditions based on limited crushed rock roads running E-W assumed to be of no consequence to works

AUTHOR: Harrendran Mohan Date: 14/10/2014

REVIEWER: Rob Henry Date: 14/10/2014



Version 8.1

PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS

CG130898

Clyde PSP - Intersection Cost Estimate

Intersection Ref: IN-53-04

Amended design as per VicRoads and MPA comments Sep 2014

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	AMOUNT	SUE	BTOTAL
A	Project and Program Management (5%)					\$	235,734
	Project Management		3.00%	0.00%	\$ 141,440		
	Project scoping, planning, scheduling, monitoring, reporting and commissioning						
	Management of preconstruction activities, development of tender documents and management of contracts						
	Managing external interfaces, including community liaison, environmental issues, traffic issues etc						
	Records management						
	Program Administration		2.00%	0.00%	\$ 94,294		

В	Design and Investigation (10%)				\$ 471,468
	Traffic Investigations	0.85%	0.00%	\$ 40,075	
	Cadastral and Engineering Survey	1.20%	0.00%	\$ 56,576	
	Geotechnical investigations Pavement Investigations				
	and Design	1.20%	0.00%	\$ 56,576	
	Environmental Investigations		0.00%	\$ -	
	Landscape Design		0.00%	\$ -	
	Preliminary and Final Design	4.25%	0.00%	\$ 200,374	
	Construction Management	2.50%	0.00%	\$ 117,867	

С	Construction				\$	4,714,676	\$ 4,714,676
1	PRELIMINARIES						\$ 236,000
1.1	Site establishment (2.5% of total construction cost)	1	Item	\$ 120,000	\$	120,000	
1.2	Site management & supervision including QA	24	wks	\$ 2,500	\$	60,000	
1.3	Provision for traffic	1	Item	\$ 56,000	\$	56,000	
1.4	Cultural Heritage contigency	1	Item		\$	-	
2	DEMOLITION						\$ 75,000
2.1	Trees	150	No	\$ 500	\$	75,000	
3	EARTHWORKS						\$ 301,590
3.1	Stripping topsoil (100mm)	12,625	m²	\$ 6	\$	75,750	
3.2	Excavation and removal	7,528	m³	\$ 30	\$	225,840	
4	PAVEMENT						\$ 2,221,525
4.1	Deep lift asphalt 195 mm	12,906	m²	\$ 105	\$	1,355,130	
4.2	Subbase course - 250 mm 3% CTCR	15,056	m²	\$ 45	\$	677,520	
4.3	Shoulder - full depth pavement	475	m²	\$ 145	\$	68,875	
4.4	Subgrade Improvement (2.5% of total construction cost)	1	Item	\$ 120,000	\$	120,000	
5	DRAINAGE						\$ 354,415
5.1	Subsoil drains 100mm dia - screenings	2,150	Lm	\$ 30	\$	64,500	
5.2	Subsoil drains 100mm dia - no fines conc	475	Lm	\$ 45	\$	21,375	
5.3	375 RCP (class 2)	1,212	Lm	\$ 170	\$	206,040	
5.4	Side entry pits	25	No	\$ 2,500	\$	62,500	
6	CONCRETE WORKS						\$ 476,600
6.1	Kerb &channel	2,150	Lm	\$ 50	\$	107,500	
6.2	Footpath/Shared Path (125 mm, residential, as per						
	MPA)	1,355	Lm	\$ 130	\$	176,150	
6.4	Laybacks and tactile pavers	24	No	\$ 850	\$	20,400	
6.5	Concrete island infill	1,500	m²	\$ 85	\$	127,500	
6.5	10m concrete maintenace area	530	m²	\$ 85	\$	45,050	
7	TRAFFIC SIGNAL WORKS						\$ 275,000
7.1	General items	1	Item	\$ 27,500	\$	27,500	
7.2	Conduits	1	Item	\$ 22,000	\$	22,000	
7.3	Pedestals	1	Item	\$ 55,000	\$	55,000	
7.4	Lanterns	1	Item	\$ 22,000	\$	22,000	
7.5	Controller	1	Item	\$ 82,500	\$	82,500	
7.6	Detectors	1	Item	\$ 	\$	11,000	
7.7	Cabling & connections	1	Item	\$ 44,000	\$	44,000	
7.8	Clean-up	1	Item	\$ 11,000	\$	11,000	
8	SIGNAL MAINTENANCE (10 YEARS) by Road						
	Authority	1	item	\$ 100,000	\$	100,000	\$ 100,000
9	POWER & LIGHTING						\$ 276,500
9.1	Light pole (1-way) and luminous lights	10	No	\$ 8,000	\$	80,000	
9.2	Light pole (2-way) and luminous lights	11	No	\$ 9,000	_	99,000	
9.3	JUP lighting single	4	No	\$ 4,000	_	16,000	
9.4	JUP lighting dual	4	No	\$ 5,000	\$	20,000	
9.5	Cabling, conduits and pits	1	Item	\$ 44,000	\$	44,000	
9.6	Electrical connection	1	Item	\$ 17,500	\$	17,500	



\$ 5,421,877 \$

20 August 2015

Version 8.1

PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS

TOTAL A - C

CG130898

Clyde PSP - Intersection Cost Estimate

Intersection Ref: IN-53-04

Amended design as per VicRoads and MPA comments Sep 2014

Sheet Ref: T05

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE		TNUOMA	SUBTOTAL
10	LANDSCAPING WORKS						\$ 65,546
10.1	Topsoiling seeding	7,711	m²	\$ 8.50	\$	65,546	
11	SIGNING	1	item	\$ 7,500	\$	7,500	\$ 7,500
12	LINEMARKING (Thermoplastic)	1	item	\$ 25,000	\$	25,000	\$ 25,000
13	SERVICE RELOCATION						\$ 300,000
13.1	Water, gas, telstra (adopted allowance)	1	Item	\$ 150,000	\$	150,000	
13.2	Overhead electrical (adopted allowance)	1	Item	\$ 150,000	\$	150,000	
14	MISCELLANEOUS						\$ -
15	PROVISIONAL SUM - DAYWORK		item		\$	-	\$ -

D	Contingency			
	Contingency (15% of C)		15%	\$ 707,201.34

E	PROJECT BUDGET			
	Total Estimate			\$ 6,129,078

Notes:

- Due to flat topography of the area, no major cut/fill works have been included for road

Substations

1 No allowance for substations

Preliminaries

2 Based on nominal rates

Subsoil Drain

3 Assume same as kerb and channel

Side Entry Pits

4 Based on 50 m intervals

Tactile Pavers

5 Assume hazard TGSI's (no directional)

Signing

6 Nominal rate

Pavement

7 Assume deep lift ashpalt pavement

Tree Removal

8 Based on preliminary information

9

11 Existing road conditions based on limited crushed rock roads running E-W assumed to be of no consequence to works

AUTHOR: Harrendran Mohan Date: 14/10/2014

REVIEWER: Rob Henry Date: 14/10/2014



PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS

CG130898

Clyde PSP - Intersection Cost Estimate

Intersection Ref: IN-53-05

Amended design as per VicRoads and MPA comments Sep 2014

DESCRIPTION

Sheet Ref: T06

	Version 8.1
Estimate	

ITEM	DESCRIPTION	QUANTITY	UNIT		RATE	/	AMOUNT	S	UBTOTAL
Α	Project and Program Management (5%)							\$	142,238
	Project Management		3.00%		0.00%	\$	85,343		
	Project scoping, planning, scheduling, monitoring,								
	reporting and commissioning								
	Management of preconstruction activities, development								
	of tender documents and management of contracts								
	Managing external interfaces, including community								
	liaison, environmental issues, traffic issues etc								
	Records management Program Administration		2.00%		0.00%	\$	56,895		
	Frogram Administration		2.00%		0.00%	Φ	30,093		
В	Design and Investigation (10%)							\$	284,475
В			0.85%		0.00%	\$	24,180	Ф	204,475
	Traffic Investigations Cadastral and Engineering Survey		1.20%		0.00%	\$	34,137		
	Geotechnical investigations Pavement Investigations		1.2076		0.00 /6	Ψ	34,137		
	and Design		1.20%		0.00%	\$	34,137		
	Environmental Investigations				0.00%	\$	-		
	Landscape Design				0.00%	\$	_		
	Preliminary and Final Design		4.25%		0.00%	\$	120,902		
	Construction Management		2.50%		0.00%	\$	71,119		
	o on our double management	Vallatilatilatilatilatilatilatilatilatila	<u> </u>	<u> </u>		Ψ	,		
С	Construction					\$	2,844,751	\$	2,844,751
1	PRELIMINARIES						, ,	\$	170.500
1.1	Site establishment (2.5% of total construction cost)	1	Item	\$	72,000	\$	72,000	_	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
1.2	Site management & supervision including QA	17	wks	\$	2,500	\$	42,500		
1.3	Provision for traffic	1	Item	\$	56,000	\$	56,000		
1.4	Cultural Heritage contigency	1	Item	Ψ_	00,000	\$	-		
2	DEMOLITION	1	Itom			Ψ		\$	10,000
2.1	Trees	20	No	\$	500	\$	10,000	_	10,000
3	EARTHWORKS	20	140	Ψ	300	Ψ	10,000	\$	137,589
3.1	Stripping topsoil (100mm)	4,794	m²	\$	6	\$	28,764	Ψ	107,000
3.2	Excavation and removal	3,628	m ³	\$	30	\$	108,825		
4	PAVEMENT	3,020		Ψ	30	Ψ	100,023	\$	1,130,100
4.1	Deep lift asphalt 195 mm	5,980	m²	\$	105	\$	627,900	Ψ	1,100,100
4.2	Subbase course - 250 mm 3% CTCR	7,255	m²	\$	55	\$	399,025		
4.3	Shoulder - full depth pavement	215	m²	\$	145	\$	31,175		
4.4	Subgrade Improvement (2.5% of total construction cost)	1	Item	\$	72,000	\$	72,000		
5	DRAINAGE	1	Itom	Ψ	72,000	Ψ	72,000	\$	245,925
5.1	Subsoil drains 100mm dia - screenings	1,275	Lm	\$	30	\$	38,250	Ψ	2.0,020
5.2	Subsoil drains 100mm dia - no fines conc	215	Lm	\$	45	\$	9,675		
5.3	375 RCP (class 2)	900	Lm	\$	170	\$	153,000		
5.4	Side entry pits	18	No	\$	2,500	\$	45,000		
6	CONCRETE WORKS	10	140	Ψ	2,000	Ψ	10,000	\$	222,175
6.1	Kerb &channel	1,275	Lm	\$	50	\$	63,750	_	,
6.2	Footpath/Shared Path (125 mm, residential, as per	1,270		Ψ_		Ψ_	00,700		
0.2	MPA)	725	Lm	\$	130	\$	94,250		
6.4	Laybacks and tactile pavers	16	No	\$	850	\$	13,600		
6.5	Concrete island infill	275	m²	\$	85	\$	23,375		
6.5	10m concrete maintenace area	320	m²	\$	85		27,200		
7	TRAFFIC SIGNAL WORKS			1			,	\$	275,000
7.1	General items	1	Item	\$	27,500	\$	27,500		
7.2	Conduits	1	Item	\$	22,000	_	22,000		
7.3	Pedestals	1	Item	\$	55,000		55,000		
7.4	Lanterns	1	Item	\$	22,000	_	22,000		
7.5	Controller	1	Item	\$	82,500	_	82,500		
7.6	Detectors	1	Item	\$	11,000	_	11,000		
7.7	Cabling & connections	1	Item	\$	44,000		44,000		
7.8	Clean-up	1	Item	\$	11,000		11,000		
8	SIGNAL MAINTENANCE (10 YEARS) by Road			Ť	,,,,,		,		
	Authority	1	item	\$	100,000	\$	100,000	\$	100,000
9	POWER & LIGHTING							\$	195,500
9.1	Light pole (1-way) and luminous lights	4	No	\$	8,000	\$	32,000		
9.2	Light pole (2-way) and luminous lights	8	No	\$	9,000	_	72,000		
9.3	JUP lighting single	6	No	\$	4,000	_	24,000		
9.4	JUP lighting dual	2	No	\$	5,000	_	10,000		
9.5	Cabling, conduits and pits	1	Item	\$	40,000	_	40,000		
9.6	Electrical connection	1	Item	\$	17,500	_	17,500		
	Electrical conficcation		11.0111	ıΨ	17,000	Ψ	17,000		



\$ 3,271,463 \$

20 August 2015

Version 8.1

PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS

TOTAL A - C

CG130898

Clyde PSP - Intersection Cost Estimate

Intersection Ref: IN-53-05

Amended design as per VicRoads and MPA comments Sep 2014

Sheet Ref: T06

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	AMOUNT		SUBTOTAL	
10	LANDSCAPING WORKS						\$	25,462
10.1	Topsoiling seeding	2,996	m²	\$ 8.50	\$	25,462		
11	SIGNING	1	item	\$ 7,500	\$	7,500	\$	7,500
12	LINEMARKING (Thermoplastic)	1	item	\$ 25,000	\$	25,000	\$	25,000
13	SERVICE RELOCATION						\$	300,000
13.1	Water, gas, telstra (adopted allowance)	1	Item	\$ 150,000	\$	150,000		
13.2	Overhead electrical (adopted allowance)	1	Item	\$ 150,000	\$	150,000		
14	MISCELLANEOUS						\$	-
15	PROVISIONAL SUM - DAYWORK		item		\$	-	\$	-

D	Contingency			
	Contingency (15% of C)		15%	\$ 426,712.61

E	PROJECT BUDGET			
	Total Estimate			\$ 3,698,176

Notes:

- Due to flat topography of the area, no major cut/fill works have been included for road

Substations

1 No allowance for substations

Preliminaries

2 Based on nominal rates

Subsoil Drain

3 Assume same as kerb and channel

Side Entry Pits

4 Based on 50 m intervals

Tactile Pavers

5 Assume hazard TGSI's (no directional)

Signing

6 Nominal rate

Pavement

7 Assume deep lift ashpalt pavement

Tree Removal

8 Based on preliminary information

Roads

9 Existing road conditions based on limited crushed rock roads running E-W assumed to be of no consequence to works

AUTHOR: Harrendran Mohan

Date: 14/10/2014

REVIEWER: Rob Henry Date: 14/10/2014



20 August 2015 Version 8.1

PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS

CG130898

Clyde PSP - Intersection Cost Estimate

Intersection Ref: IN-53-06

Amended design as per VicRoads and MPA comments Sep 2014

Sheet Ref:	T07								
ITEM	DESCRIPTION Project and Program Management (5%)	QUANTITY	UNIT	RATE	A	MOUNT	SUBTOTAL		
Α							\$	151,479	
	Project Management		3.00%	0.00%	\$	90,887			
	Project scoping, planning, scheduling, monitoring,								
	reporting and commissioning								
	Management of preconstruction activities, development of tender documents and management of contracts								
	Managing external interfaces, including community liaison, environmental issues, traffic issues etc								
	Records management								
	Program Administration		2.00%	0.00%	\$	60,591			

В	Design and Investigation (10%)				\$ 302,957
	Traffic Investigations	0.85%	0.00%	\$ 25,751	
	Cadastral and Engineering Survey	1.20%	0.00%	\$ 36,355	
	Geotechnical investigations Pavement Investigations				
	and Design	1.20%	0.00%	\$ 36,355	
	Environmental Investigations		0.00%	\$ -	
	Landscape Design		0.00%	\$ -	
	Preliminary and Final Design	4.25%	0.00%	\$ 128,757	
	Construction Management	2.50%	0.00%	\$ 75,739	

	Construction Management		2.50%		0.00%	\$	75,739		
С	Construction					\$	3,029,572		3,029,572
1	PRELIMINARIES							\$	178,000
1.1	Site establishment (2.5% of total construction cost)	1	Item	\$	77,000	\$	77,000		
1.2	Site management & supervision including QA	18	wks	\$	2,500	\$	45,000		
1.3	Provision for traffic	1	Item	\$	56,000	\$	56,000		
1.4	Cultural Heritage contigency	1	Item			\$	-		
2	DEMOLITION							\$	15,000
2.1	Trees	30	No	\$	500	\$	15,000		
3	EARTHWORKS						·	\$	157,242
3.1	Stripping topsoil (100mm)	5,957	m²	\$	6	\$	35,742		
3.2	Excavation and removal	4,050	m³	\$	30	\$	121,500		
4	PAVEMENT	,					,	\$	1,265,000
4.1	Deep lift asphalt 195 mm	6,740	m²	\$	105	\$	707,700	<u> </u>	,,
4.2	Subbase course - 250 mm 3% CTCR	8,100	m²	\$	55	\$	445,500		
4.3	Shoulder - full depth pavement	240	m²	\$	145	\$	34.800		
4.4	Subgrade Improvement (2.5% of total construction cost)	1	Item	\$	77,000	_	77,000		
5	DRAINAGE	·	ROITI	Ψ	77,000	Ψ	77,000	\$	249,600
5.1	Subsoil drains 100mm dia - screenings	1,360	Lm	\$	30	\$	40,800	<u> </u>	2.0,000
5.2	Subsoil drains 100mm dia - no fines conc	240	Lm	\$	45	\$	10,800		
5.3	375 RCP (class 2)	900	Lm	\$	170	\$	153,000		
5.4	Side entry pits	18	No	\$	2,500	\$	45,000		
6	CONCRETE WORKS	10	INU	Ψ	2,300	Ψ	43,000	\$	236,230
6.1	Kerb &channel	4.200	l m	\$		\$	60,000	Ψ	230,230
6.2	Footpath/Shared Path (125 mm, residential, as per	1,360	Lm	1	50	Ф	68,000		
0.2	MPA)	771	Lm	\$	130	\$	100,230		
6.4	Laybacks and tactile pavers	16	No	\$	850	\$	13,600		
6.5	Concrete island infill	390	m²	\$	85	\$	33,150		
6.5	10m concrete maintenace area	250	m²	\$	85	\$	21,250		
7	TRAFFIC SIGNAL WORKS			1		Ť		\$	275,000
7.1	General items	1	Item	\$	27,500	\$	27,500	<u> </u>	-,
7.2	Conduits	1	Item	\$	22.000		22.000		
7.3	Pedestals	1	Item	\$	55,000	_	55,000		
7.4	Lanterns	1	Item	\$	22,000	_	22,000		
7.5	Controller	1	Item	\$	82,500	_	82,500		
7.6	Detectors	1	Item	\$	11,000	_	11,000		
7.7	Cabling & connections	1	Item	\$	44,000		44,000		
7.8	Clean-up	1	Item	\$	11,000		11,000		
8	SIGNAL MAINTENANCE (10 YEARS) by Road	'	Item	Ψ	11,000	Ψ	11,000		
	Authority	1	item	\$	100,000	\$	100,000	\$	100,000
9	POWER & LIGHTING						,	\$	195,500
9.1	Light pole (1-way) and luminous lights	4	No	\$	8,000	\$	32,000		,
9.2	Light pole (2-way) and luminous lights	8	No	\$	9,000	_	72,000		
9.3	JUP lighting single	6	No	\$	4,000		24,000		
9.4	JUP lighting dual	2	No	\$	5,000		10,000		
9.5	Cabling, conduits and pits	1	Item	\$	40,000		40,000		
9.6	Electrical connection	1	Item	\$	17,500	_	17,500		
5.0	LIEUTION CONTECTION	1	ILCIII	ΙΨ	17,500	Ψ	17,500		



Version 8.1

PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS

CG130898

Clyde PSP - Intersection Cost Estimate

Intersection Ref: IN-53-06

Amended design as per VicRoads and MPA comments Sep 2014

Sheet Ref: T07

	Sheet Ref. 107					
ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	AMOUNT	SUBTOTAL
10	LANDSCAPING WORKS					\$ 25,500
10.1	Topsoiling seeding	3,000	m²	\$ 8.50	\$ 25,500	
11	SIGNING	1	item	\$ 7,500	\$ 7,500	\$ 7,500
12	LINEMARKING (Thermoplastic)	1	item	\$ 25,000	\$ 25,000	\$ 25,000
13	SERVICE RELOCATION					\$ 300,000
13.1	Water, gas, telstra (adopted allowance)	1	Item	\$ 150,000	\$ 150,000	
13.2	Overhead electrical (adopted allowance)	1	Item	\$ 150,000	\$ 150,000	
14	MISCELLANEOUS					\$ -
15	PROVISIONAL SUM - DAYWORK		item		\$ -	\$ -

	TOTAL A - C		\$	3,484,008	\$ 3,484,008
D	Contingency				
	Contingency (15% of C)			15%	\$ 454,435.80

E	PROJECT BUDGET			
	Total Estimate			\$ 3,938,444

Notes:

- Due to flat topography of the area, no major cut/fill works have been included for road

Substations

1 No allowance for substations

Preliminaries

2 Based on nominal rates

Subsoil Drain

3 Assume same as kerb and channel

Side Entry Pits

4 Based on 50 m intervals

Tactile Pavers

5 Assume hazard TGSI's (no directional)

Signing

6 Nominal rate

Pavement

7 Assume deep lift ashpalt pavement

Tree Removal

8 Based on preliminary information

Roads

9 Existing road conditions based on limited crushed rock roads running E-W and N-S assumed to be of no consequence to works

AUTHOR: Harrendran Mohan Date: 14/10/2014



20 August 2015 Version 8.1

PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS

CG130898

Clyde PSP - Intersection Cost Estimate

Intersection Ref: IN-53-07

Amended design as per VicRoads and MPA comments SEP 2014

Sheet Ref: T08

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	А	MOUNT	SU	JBTOTAL
Α	Project and Program Management (5%)						\$	170,683
	Project Management		3.00%	0.00%	\$	102,410		
	Project scoping, planning, scheduling, monitoring,							
	reporting and commissioning							
	Management of preconstruction activities, development of tender documents and management of contracts							
	Managing external interfaces, including community							
	liaison, environmental issues, traffic issues etc							
	Records management							
	Program Administration		2.00%	0.00%	\$	68,273		

В	Design and Investigation (10%)				\$ 341,367
	Traffic Investigations	0.85%	0.00%	\$ 29,016	
	Cadastral and Engineering Survey	1.20%	0.00%	\$ 40,964	
	Geotechnical investigations Pavement Investigations and				
	Design	1.20%	0.00%	\$ 40,964	
	Environmental Investigations		0.00%	\$ -	
	Landscape Design		0.00%	\$ -	
	Preliminary and Final Design	4.25%	0.00%	\$ 145,081	
	Construction Management	2.50%	0.00%	\$ 85,342	

С	Construction				\$	3,413,667	\$ 3,413,667
1	PRELIMINARIES						\$ 211,000
1.1	Site establishment (2.5% of total construction cost)	1	Item	\$ 86,000	\$	86,000	
1.2	Site management & supervision including QA	20	wks	\$ 2,500	\$	50,000	
1.3	Provision for traffic	1	Item	\$ 75,000	\$	75,000	
1.4	Cultural Heritage contigency	1	Item		\$	-	
2	DEMOLITION						\$ 51,420
2.1	Trees	15	No	\$ 500	\$	7,500	
2.2	Plane existing ashpalt	2,745	m²	\$ 16	\$	43,920	
3	EARTHWORKS						\$ 222,960
3.1	Stripping topsoil (100mm)	6,785	m²	\$ 6	\$	40,710	
3.2	Excavation and removal	4,703	m³	\$ 30	\$	141,075	
3.3	Stockpile reclaimed FCR	2,745	m³	\$ 15	\$	41,175	
4	PAVEMENT						\$ 1,430,950
4.1	Deep lift asphalt 195 mm	7,710	m²	\$ 105	\$	809,550	
4.2	Subbase course - 250 mm 3% CTCR	9,405	m²	\$ 55	\$	517,275	
4.3	Shoulder - full depth pavement	125	m²	\$ 145	\$	18,125	
4.4	Subgrade Improvement (2.5% of total construction cost)	1	Item	\$ 86,000	\$	86,000	
5	DRAINAGE			<u> </u>		,	\$ 254,475
5.1	Subsoil drains 100mm dia - screenings	1,695	Lm	\$ 30	\$	50,850	
5.2	Subsoil drains 100mm dia - no fines conc	125	Lm	\$ 45	\$	5,625	
5.3	375 RCP (class 2)	900	Lm	\$ 170	\$	153,000	
5.4	Side entry pits	18	No	\$ 2,500	\$	45,000	
6	CONCRÉTE WORKS						\$ 291,850
6.1	Kerb &channel	1,695	Lm	\$ 50	\$	84,750	
6.2	Footpath/Shared Path (125 mm, residential, as per MPA)	815	Lm	\$ 130	\$	105,950	
6.3	Laybacks and tactile pavers	18	No	\$ 850	\$	15,300	
6.4	Concrete island infill	730	m²	\$ 85	\$	62,050	
6.5	10m concrete maintenance area end of all islands	280	m²	\$ 85	\$	23,800	
7	TRAFFIC SIGNAL WORKS						\$ 275,000
7.1	General items	1	Item	\$ 27,500	\$	27,500	
7.2	Conduits	1	Item	\$ 22,000		22,000	
7.3	Pedestals	1	Item	\$ 55,000	\$	55,000	
7.4	Lanterns	1	Item	\$ 22,000		22,000	
7.5	Controller	1	Item	\$ 82,500	\$	82,500	
7.6	Detectors	1	Item	\$ 11,000	\$	11,000	
7.7	Cabling & connections	1	Item	\$ 44,000	\$	44,000	
7.8	Clean-up	1	Item	\$ 11,000	\$	11,000	
8	SIGNAL MAINTENANCE (10 YEARS) by Road Authority	1	item	\$ 100,000	\$	100,000	\$ 100,000
9	POWER & LIGHTING						\$ 200,000
9.1	Light pole (1-way) and luminous lights	-	No	\$ 8,000	\$	-	
9.2	Light pole (2-way) and luminous lights	12	No	\$ 9,000	\$	108,000	
9.3	JUP lighting single	3	No	\$ 4,000	\$	12,000	
9.4	JUP lighting dual	5	No	\$ 5,000	\$	25,000	
9.5	Cabling, conduits and pits	1	Item	\$ 44,000	_	44,000	
9.6	Electrical connection	1	Item	\$ 11,000		11,000	



Version 8.1

PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS

CG130898

Clyde PSP - Intersection Cost Estimate

Intersection Ref: IN-53-07

Amended design as per VicRoads and MPA comments SEP 2014

Sheet Ref: T08

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	,	AMOUNT	SUBTOTAL
10	LANDSCAPING WORKS						\$ 43,512
10.1	Topsoiling seeding	5,119	m²	\$ 8.50	\$	43,512	
11	SIGNING	1	item	\$ 7,500	\$	7,500	\$ 7,500
12	LINEMARKING (Thermoplastic)	1	item	\$ 25,000	\$	25,000	\$ 25,000
13	SERVICE RELOCATION						\$ 300,000
13.1	Water, gas, telstra (adopted allowance)	1	Item	\$ 150,000	\$	150,000	
13.2	Overhead electrical (adopted allowance)	1	Item	\$ 150,000	\$	150,000	
14	MISCELLANEOUS						\$ -
15	PROVISIONAL SUM - DAYWORK		item		\$	-	\$ -

	IOTAL A - C		φ 3,925,716	1 D	3,923,710
D	Contingency				
	Contingency (15% of C)		15%	\$	512,049.98

E	PROJECT BUDGET			
	Total Estimate			\$ 4,437,766

Notes:

- Due to flat topography of the area, no major cut/fill works have been included for road

Substations

1 No allowance for substations

Preliminaries

2 Based on nominal rates

Subsoil Drain

3 Assume same as kerb and channel

Side Entry Pits

4 Based on 50 m intervals

Tactile Pavers

5 Assume hazard TGSI's (no directional)

Signing

6 Nominal rate

Pavement

7 Assume deep lift ashpalt pavement

9

8 Based on preliminary information

10

- 9 Assume all existing asphalt roads to be demolished and FCR stockpiled
- 10 Assume crushed rock pavement will be removed as part of general earthworks

13

AUTHOR: Harrendran Mohan Date: 14/10/2014



20 August 2015 Version 8.1

PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS

CG130898

Clyde PSP - Intersection Cost Estimate

Intersection Ref: IN-53-08

Amended design as per VicRoads and MPA comments Sep 2014

Sheet Ref:	T09	·						
ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	Al	MOUNT	SU	BTOTAL
Α	Project and Program Management (5%)						\$	159,496
	Project Management		3.00%	0.00%	\$	95,698		
	Project scoping, planning, scheduling, monitoring, reporting and commissioning							
	Management of preconstruction activities, development of tender documents and management of contracts							
	Managing external interfaces, including community liaison, environmental issues, traffic issues etc							
	Records management							
	Program Administration		2.00%	0.00%	\$	63,798		

В	Design and Investigation (10%)				\$ 318,992
	Traffic Investigations	0.85%	0.00%	\$ 27,114	
	Cadastral and Engineering Survey	1.20%	0.00%	\$ 38,279	
	Geotechnical investigations Pavement Investigations				
	and Design	1.20%	0.00%	\$ 38,279	
	Environmental Investigations		0.00%	\$ -	
	Landscape Design		0.00%	\$ -	
	Preliminary and Final Design	4.25%	0.00%	\$ 135,572	
	Construction Management	2.50%	0.00%	\$ 79,748	

С	Construction					\$	3,189,921	\$	3,189,921
1	PRELIMINARIES							\$	184,500
1.1	Site establishment (2.5% of total construction cost)	1	Item	\$	81,000	\$	81,000		
1.2	Site management & supervision including QA	19	wks	\$	2,500	\$	47,500		
1.3	Provision for traffic	1	Item	\$	56,000	\$	56,000		
1.4	Cultural Heritage contigency	1	Item			\$	-		
2	DEMOLITION							\$	4,000
2.1	Trees	8	No	\$	500	\$	4,000		
3	EARTHWORKS							\$	195,510
3.1	Stripping topsoil (100mm)	9,510	m²	\$	6	\$	57,060		
3.2	Excavation and removal	4,615	m³	\$	30	\$	138,450		
4	PAVEMENT							\$	1,455,600
4.1	Deep lift asphalt 195 mm	7,870	m²	\$	105	\$	826,350		
4.2	Subbase course - 250 mm 3% CTCR	9,230	m²	\$	55	\$	507,650		
4.3	Shoulder - full depth pavement	280	m²	\$	145	\$	40.600		
4.4	Subgrade Improvement (2.5% of total construction cost)	1	Item	\$	81.000	\$	81,000		
5	DRAINAGE				,,,,,,	Ť	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	\$	273,400
5.1	Subsoil drains 100mm dia - screenings	1,360	Lm	\$	30	\$	40,800		<u> </u>
5.2	Subsoil drains 100mm dia - no fines conc	280	Lm	\$	45	\$	12,600		
5.3	375 RCP (class 2)	1,000	Lm	\$	170	\$	170,000		
5.4	Side entry pits	20	No	\$	2,500	\$	50,000		
6	CONCRETE WORKS			Ť	_,-,	Ť		\$	211,200
6.1	Kerb &channel	1,360	Lm	\$	50	\$	68,000	<u> </u>	,
6.2	Footpath/Shared Path (125 mm, residential, as per	1,000		Ť		Ť			
	MPA)	840	Lm	\$	130	\$	109,200		
6.4	Laybacks and tactile pavers	8	No	\$	850	\$	6,800		
6.5	Concrete island infill	135	m²	\$	85	\$	11,475		
6.5	10m concrete maintenace area	185	m²	\$	85	\$	15,725		
7	TRAFFIC SIGNAL WORKS						·	\$	237,500
7.1	General items	1	Item	\$	23,000	\$	23,000		
7.2	Conduits	1	Item	\$	18,000	\$	18,000		
7.3	Pedestals	1	Item	\$	45.000	\$	45,000		
7.4	Lanterns	1	Item	\$	18,000	\$	18,000		
7.5	Controller	1	Item	\$	75,000	\$	75,000		
7.6	Detectors	1	Item	\$	9,500	\$	9,500		
7.7	Cabling & connections	1	Item	\$	40,000	\$	40,000		
7.8	Clean-up	1	Item	\$	9.000	\$	9.000		
8	SIGNAL MAINTENANCE (10 YEARS) by Road								
	Authority	1	item	\$	100,000	\$	100,000	\$	100,000
9	POWER & LIGHTING				<u> </u>	Ė	· · ·	\$	165,000
9.1	Light pole (1-way) and luminous lights	2	No	\$	8,000	\$	16,000		,,,,,,
9.2	Light pole (2-way) and luminous lights	7	No	\$	9.000	\$	63,000		
9.3	JUP lighting single	8	No	\$	4,000	-	32,000		
9.4	JUP lighting dual	2	No	\$	5,000	\$	10,000		
9.5	Cabling, conduits and pits	1	Item	\$	30,000	\$	30,000		
9.6	Electrical connection	1	Item	\$	14,000	\$	14,000		



Version 8.1

PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS

CG130898

Clyde PSP - Intersection Cost Estimate

Intersection Ref: IN-53-08

Amended design as per VicRoads and MPA comments Sep 2014

Sheet Ref: T09

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	1	AMOUNT	:	SUBTOTAL
10	LANDSCAPING WORKS						\$	30,711
10.1	Topsoiling seeding	3,613	m²	\$ 8.50	\$	30,711		
11	SIGNING	1	item	\$ 7,500	\$	7,500	\$	7,500
12	LINEMARKING (Thermoplastic)	1	item	\$ 25,000	\$	25,000	\$	25,000
13	SERVICE RELOCATION						\$	300,000
13.1	Water, gas, telstra (adopted allowance)	1	Item	\$ 150,000	\$	150,000		
13.2	Overhead electrical (adopted allowance)	1	Item	\$ 150,000	\$	150,000		
14	MISCELLANEOUS						\$	-
15	PROVISIONAL SUM - DAYWORK		item		\$	-	\$	-

	TOTAL A - C		\$ 3,668,409	\$ 3,668,409
D	Contingency			
	Contingency (15% of C)		15%	\$ 478,488.08

E	PROJECT BUDGET			
	Total Estimate			\$ 4,146,897

Notes:

- Due to flat topography of the area, no major cut/fill works have been included for road

Substations

1 No allowance for substations

Preliminaries

2 Based on nominal rates

Subsoil Drain

3 Assume same as kerb and channel

Side Entry Pits

4 Based on 50 m intervals

Tactile Pavers

5 Assume hazard TGSI's (no directional)

Signing

6 Nominal rate

Pavement

7 Assume deep lift ashpalt pavement

Tree Removal

8 Based on preliminary information

9

AUTHOR: Harrendran Mohan Date: 14/10/2014



Version 8.1

PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS

CG130898

Clyde PSP - Intersection Cost Estimate

Intersection Ref: IN-53-09

Amended design as per VicRoads and MPA comments SEP 2014

Sheet Ref: T10

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	A	MOUNT	SU	BTOTAL
Α	Project and Program Management (5%)						\$	129,382
	Project Management		3.00%	0.00%	\$	77,629		
	Project scoping, planning, scheduling, monitoring,							
	reporting and commissioning							
	Management of preconstruction activities, development of tender documents and management of contracts							
	Managing external interfaces, including community liaison, environmental issues, traffic issues etc							
	Records management							
	Program Administration		2.00%	0.00%	\$	51,753		

В	Design and Investigation (10%)				\$ 258,765
	Traffic Investigations	0.85%	0.00%	\$ 21,995	
	Cadastral and Engineering Survey	1.20%	0.00%	\$ 31,052	
	Geotechnical investigations Pavement Investigations and				
	Design	1.20%	0.00%	\$ 31,052	
	Environmental Investigations		0.00%	\$ -	
	Landscape Design		0.00%	\$ -	
	Preliminary and Final Design	4.25%	0.00%	\$ 109,975	
	Construction Management	2.50%	0.00%	\$ 64,691	

С	Construction				\$	2,587,650	\$ 2,587,650
1	PRELIMINARIES						\$ 185,000
1.1	Site establishment (2.5% of total construction cost)	1	Item	\$ 66,000	\$	66,000	
1.2	Site management & supervision including QA	18	wks	\$ 2,500	\$	45,000	
1.3	Provision for traffic	1	Item	\$ 74,000	\$	74,000	
1.4	Cultural Heritage contigency	1	Item		\$	-	
2	DEMOLITION						\$ 43,400
2.1	Trees	10	No	\$ 500	\$	5,000	
2.2	Plane existing ashpalt	2,400	m²	\$ 16	\$	38,400	
3	EARTHWORKS						\$ 146,439
3.1	Stripping topsoil (100mm)	3,689	m²	\$ 6	\$	22,134	
3.2	Excavation and removal	2,944	m³	\$ 30	\$	88,305	
3.3	Stockpile reclaimed FCR	2,400	m³	\$ 15	\$	36,000	
4	PAVEMENT						\$ 929,060
4.1	Deep lift asphalt 195 mm	4,857	m²	\$ 105	\$	509,985	
4.2	Subbase course - 250 mm 3% CTCR	5,887	m²	\$ 55	\$	323,785	
4.3	Shoulder - full depth pavement	202	m²	\$ 145	\$	29,290	
4.4	Subgrade Improvement (2.5% of total construction cost)	1	Item	\$ 66,000	\$	66,000	
5	DRAINAGE			, , , , , , , , , , , , , , , , , , ,		<u> </u>	\$ 182,990
5.1	Subsoil drains 100mm dia - screenings	1,030	Lm	\$ 30	\$	30,900	
5.2	Subsoil drains 100mm dia - no fines conc	202	Lm	\$ 45	\$	9,090	
5.3	375 RCP (class 2)	650	Lm	\$ 170	\$	110,500	
5.4	Side entry pits	13	No	\$ 2,500	\$	32,500	
6	CONCRÉTE WORKS					,	\$ 207,935
6.1	Kerb &channel	1,030	Lm	\$ 50	\$	51,500	
6.2	Footpath/Shared Path (125 mm, residential, as per MPA)	660	Lm	\$ 130	\$	85,800	
6.4	Laybacks and tactile pavers	18	No	\$ 850	\$	15,300	
6.5	Concrete island infill	381	m²	\$ 85	\$	32,385	
6.5	10m concrete maintenance area end of all islands	270	m²	\$ 85	\$	22,950	
7	TRAFFIC SIGNAL WORKS					,	\$ 237,500
7.1	General items	1	Item	\$ 23,000	\$	23,000	
7.2	Conduits	1	Item	\$ 18,000		18,000	
7.3	Pedestals	1	Item	\$ 45,000	\$	45,000	
7.4	Lanterns	1	Item	\$ 18,000		18,000	
7.5	Controller	1	Item	\$ 75,000	\$	75,000	
7.6	Detectors	1	Item	\$ 9,500	\$	9,500	
7.7	Cabling & connections	1	Item	\$ 40,000	\$	40,000	
7.8	Clean-up	1	Item	\$ 9,000	\$	9,000	
8	SIGNAL MAINTENANCE (10 YEARS) by Road Authority	1	item	\$ 100,000	\$	100,000	\$ 100,000
9	POWER & LIGHTING						\$ 200,000
9.1	Light pole (1-way) and luminous lights	-	No	\$ 8,000	\$	-	
9.2	Light pole (2-way) and luminous lights	12	No	\$ 9,000	\$	108,000	
9.3	JUP lighting single	3	No	\$ 4,000	\$	12,000	
9.4	JUP lighting dual	5	No	\$ 5,000	\$	25,000	
9.5	Cabling, conduits and pits	1	Item	\$ 44,000	_	44,000	
9.6	Electrical connection	1	Item	\$ 11,000		11,000	



Version 8.1

PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS

CG130898

Clyde PSP - Intersection Cost Estimate

Intersection Ref: IN-53-09

Amended design as per VicRoads and MPA comments SEP 2014

Sheet Ref: T10

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	1	AMOUNT	SUBTOTAL
10	LANDSCAPING WORKS						\$ 22,826
10.1	Topsoiling seeding	2,685	m²	\$ 8.50	\$	22,826	
11	SIGNING	1	item	\$ 7,500	\$	7,500	\$ 7,500
12	LINEMARKING (Thermoplastic)	1	item	\$ 25,000	\$	25,000	\$ 25,000
13	SERVICE RELOCATION						\$ 300,000
13.1	Water, gas, telstra (adopted allowance)	1	Item	\$ 150,000	\$	150,000	
13.2	Overhead electrical (adopted allowance)	1	Item	\$ 150,000	\$	150,000	
14	MISCELLANEOUS						\$ -
15	PROVISIONAL SUM - DAYWORK		item		\$	-	\$ -

	TOTAL A - C			\$ 2,975,797	\$ 2,975,797
D	Contingency				
	Contingency (15% of C)			15%	\$ 388,147.49
	·				
Е	PROJECT BUDGET				
	Total Estimate				\$ 3,363,945

Notes:

- Due to flat topography of the area, no major cut/fill works have been included for road

Substations

1 No allowance for substations

Preliminaries

2 Based on nominal rates

Subsoil Drain

3 Assume same as kerb and channel

Side Entry Pits

4 Based on 50 m intervals

Tactile Pavers

5 Assume hazard TGSI's (no directional)

Signing Pavement

6 Nominal rate

7 Assume deep lift ashpalt pavement

9

8 Based on preliminary information

10

- 9 Assume all existing asphalt roads to be demolished and FCR stockpiled
- 10 Assume crushed rock pavement will be removed as part of general earthworks

13

AUTHOR: Harrendran Mohan Date: 14/10/2014



20 August 2015 Version 8.1

PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS

ITEM

Clyde PSP - Intersection Cost Estimate

Intersection Ref: IN-53-10

Management of preconstruction activities, development of tender documents and management of contracts

Managing external interfaces, including community lianson, environmental issues, traffic issues etc

Sheet Ref:

Amended design as per VicRoads and MPA comme	ents Sep 2014				
DESCRIPTION	QUANTITY	UNIT	RATE	AMOUNT	SUBTOTAL
Project and Program Management (5%)					\$ 116,242
Project Management		3.00%	0.00%	\$ 69,745	
Project scoping, planning, scheduling, monitoring,					
reporting and commissioning					

				/////		
	Records management					
	Program Administration	2.00%	0.00%	\$	46,497	
В	Design and Investigation (10%)					\$ 232,485
	Traffic Investigations	0.85%	0.00%	\$	19,761	
	Cadastral and Engineering Survey	1.20%	0.00%	\$	27,898	
	Geotechnical investigations Pavement Investigations					
	and Design	1.20%	0.00%	\$	27,898	
	Environmental Investigations		0.00%	\$	-	
	Landscape Design		0.00%	\$	-	
	Preliminary and Final Design	4.25%	0.00%	\$	98,806	

	Preliminary and Final Design		4.25%	0.00%	Þ	90,000	
	Construction Management		2.50%	0.00%	\$	58,121	
С	Construction				\$	2,324,850	\$ 2,324,850
1	PRELIMINARIES						\$ 155,000
1.1	Site establishment (2.5% of total construction cost)	1	Item	\$ 59,000	\$	59,000	
1.2	Site management & supervision including QA	16	wks	\$ 2,500	\$	40,000	
1.3	Provision for traffic	1	Item	\$ 56,000	\$	56,000	
1.4	Cultural Heritage contigency	1	Item		\$	-	
2	DEMOLITION						\$ 2,500
2.1	Trees	5	No	\$ 500	\$	2,500	
3	EARTHWORKS						\$ 110,070
3.1	Stripping topsoil (100mm)	5,350	m²	\$ 6	\$	32,100	
3.2	Excavation and removal	2,599	m³	\$ 30	\$	77,970	
4	PAVEMENT						\$ 767,820
4.1	Deep lift asphalt 195 mm	3,818	m²	\$ 105	\$	400,890	
4.2	Subbase course - 250 mm 3% CTCR	5,198	m²	\$ 55	\$	285,890	
4.3	Shoulder - full depth pavement	152	m²	\$ 145	\$	22,040	
4.4	Subgrade Improvement (2.5% of total construction cost)	1	Item	\$ 59,000	\$	59,000	
5	DRAINAGE						\$ 213,240
5.1	Subsoil drains 100mm dia - screenings	1,380	Lm	\$ 30	\$	41,400	
5.2	Subsoil drains 100mm dia - no fines conc	152	Lm	\$ 45	\$	6,840	
5.3	375 RCP (class 2)	750	Lm	\$ 170	\$	127,500	
5.4	Side entry pits	15	No	\$ 2,500	\$	37,500	
6	CONCRÉTE WORKS						\$ 236,725
6.1	Kerb &channel	1,380	Lm	\$ 50	\$	69,000	
6.2	Footpath/Shared Path (125 mm, residential, as per						
	MPA)	620	Lm	\$ 130	\$	80,600	
6.4	Laybacks and tactile pavers	12	No	\$ 850	\$	10,200	
6.5	Concrete island infill	545	m²	\$ 85	\$	46,325	
6.5	10m concrete maintenace area	360	m²	\$ 85	\$	30,600	
7	TRAFFIC SIGNAL WORKS						\$ 237,500
7.1	General items	1	Item	\$ 23,000	\$	23,000	
7.2	Conduits	1	Item	\$ 18,000	\$	18,000	
7.3	Pedestals	1	Item	\$ 45,000	\$	45,000	
7.4	Lanterns	1	Item	\$ 18,000	\$	18,000	
7.5	Controller	1	Item	\$ 75,000	\$	75,000	
7.6	Detectors	1	Item	\$ 9,500	\$	9,500	
7.7	Cabling & connections	1	Item	\$ 40,000	\$	40,000	
7.8	Clean-up	1	Item	\$ 9,000	\$	9,000	
8	SIGNAL MAINTENANCE (10 YEARS) by Road						
	Authority	1	item	\$ 100,000	\$	100,000	\$ 100,000
9	POWER & LIGHTING						\$ 144,000
9.1	Light pole (1-way) and luminous lights	-	No	\$ 8,000		-	
9.2	Light pole (2-way) and luminous lights	7	No	\$ 9,000	\$	63,000	
9.3	JUP lighting single	8	No	\$ 4,000		32,000	
9.4	JUP lighting dual	1	No	\$ 5,000	\$	5,000	
9.5	Cabling, conduits and pits	1	Item	\$ 30,000	\$	30,000	
9.6	Electrical connection	1	Item	\$ 14,000	\$	14,000	



Version 8.1

PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS

CG130898

Clyde PSP - Intersection Cost Estimate

Intersection Ref: IN-53-10

Amended design as per VicRoads and MPA comments Sep 2014

Sheet Ref: T11

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	AMOUNT	SUBTOTAL
		QUANTITY	UNIT	KAIL	 AMOUNT	<u> </u>
10	LANDSCAPING WORKS					\$ 25,495
10.1	Topsoiling seeding	2,999	m²	\$ 8.50	\$ 25,495	
11	SIGNING	1	item	\$ 7,500	\$ 7,500	\$ 7,500
12	LINEMARKING (Thermoplastic)	1	item	\$ 25,000	\$ 25,000	\$ 25,000
13	SERVICE RELOCATION					\$ 300,000
13.1	Water, gas, telstra (adopted allowance)	1	Item	\$ 150,000	\$ 150,000	
13.2	Overhead electrical (adopted allowance)	1	Item	\$ 150,000	\$ 150,000	
14	MISCELLANEOUS					\$ -
15	PROVISIONAL SUM - DAYWORK		item		\$ -	\$ -

	IOTAL A - C		Φ .	2,073,577	Þ	2,013,311
D	Contingency					
	Contingency (15% of C)			15%	\$	348,727.49

E	PROJECT BUDGET			
	Total Estimate			\$ 3,022,305

Notes:

- Due to flat topography of the area, no major cut/fill works have been included for road

Substations

1 No allowance for substations

Preliminaries

2 Based on nominal rates

Subsoil Drain

3 Assume same as kerb and channel

Side Entry Pits

4 Based on 50 m intervals

Tactile Pavers

5 Assume hazard TGSI's (no directional)

Signing

6 Nominal rate

Pavement

7 Assume deep lift ashpalt pavement

Tree Removal

8 Based on preliminary information

9

AUTHOR: Harrendran Mohan Date: 14/10/2014



Version 8.1

PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS

CG130898

Clyde PSP - Intersection Cost Estimate

Intersection Ref: IN-53-11

Amended design as per VicRoads and MPA comments Sep 2014

Sheet Ref: T12

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	A	MOUNT	SU	BTOTAL
Α	Project and Program Management (5%)						\$	173,066
	Project Management		3.00%	0.00%	\$	103,839		
	Project scoping, planning, scheduling, monitoring, reporting and commissioning							
	Management of preconstruction activities, development of tender documents and management of contracts							
	Managing external interfaces, including community liaison, environmental issues, traffic issues etc							
	Records management							
	Program Administration		2.00%	0.00%	\$	69,226		

В	Design and Investigation (10%)				\$ 346,131
	Traffic Investigations	0.85%	0.00%	\$ 29,421	
	Cadastral and Engineering Survey	1.20%	0.00%	\$ 41,536	
	Geotechnical investigations Pavement Investigations				
	and Design	1.20%	0.00%	\$ 41,536	
	Environmental Investigations		0.00%	\$ -	
	Landscape Design		0.00%	\$ -	
	Preliminary and Final Design	4.25%	0.00%	\$ 147,106	
	Construction Management	2.50%	0.00%	\$ 86,533	

С	Construction				\$	3,461,313	\$ 3,461,313
1	PRELIMINARIES						\$ 199,000
1.1	Site establishment (2.5% of total construction cost)	1	Item	\$ 88,000	\$	88,000	
1.2	Site management & supervision including QA	20	wks	\$ 2,500	\$	50,000	
1.3	Provision for traffic	1	Item	\$ 56,000	\$	56,000	
1.4	Cultural Heritage contigency	1	Item	\$ 5,000	\$	5,000	
2	DEMOLITION						\$ 2,500
2.1	Trees	5	No	\$ 500	\$	2,500	
3	EARTHWORKS						\$ 184,215
3.1	Stripping topsoil (100mm)	8,940	m²	\$ 6	\$	53,640	
3.2	Excavation and removal	4,353	m³	\$ 30	\$	130,575	
4	PAVEMENT						\$ 1,372,275
4.1	Deep lift asphalt 195 mm	6,905	m²	\$ 105	\$	725,025	
4.2	Subbase course - 250 mm 3% CTCR	8,705	m²	\$ 55	\$	478,775	
4.3	Shoulder - full depth pavement	555	m²	\$ 145	\$	80,475	
4.4	Subgrade Improvement (2.5% of total construction cost)	1	Item	\$ 88,000	\$	88,000	
5	DRAINAGE						\$ 342,975
5.1	Subsoil drains 100mm dia - screenings	1,800	Lm	\$ 30	\$	54,000	
5.2	Subsoil drains 100mm dia - no fines conc	555	Lm	\$ 45	\$	24,975	
5.3	375 RCP (class 2)	1,200	Lm	\$ 170	\$	204,000	
5.4	Side entry pits	24	No	\$ 2,500	\$	60,000	
6	CONCRETE WORKS						\$ 341,900
6.1	Kerb &channel	1,800	Lm	\$ 50	\$	90,000	
6.2	Footpath/Shared Path (125 mm, residential, as per						
	MPA)	1,055	Lm	\$ 130	\$	137,150	
6.4	Laybacks and tactile pavers	22	No	\$ 850		18,700	
6.5	Concrete island infill	630	m²	\$ 85	\$	53,550	
6.5	10m concrete maintenace area	500	m²	\$ 85	\$	42,500	
7	TRAFFIC SIGNAL WORKS						\$ 237,500
7.1	General items	1	Item	\$ 23,000	_	23,000	
7.2	Conduits	1	Item	\$ 18,000	_	18,000	
7.3	Pedestals	1	Item	\$ 45,000	\$	45,000	
7.4	Lanterns	1	Item	\$ 18,000	_	18,000	
7.5	Controller	1	Item	\$ 75,000		75,000	
7.6	Detectors	1	Item	\$ 9,500	_	9,500	
7.7	Cabling & connections	1	Item	\$ 40,000	_	40,000	
7.8	Clean-up	1	Item	\$ 9,000	\$	9,000	
8	SIGNAL MAINTENANCE (10 YEARS) by Road						
	Authority	1	item	\$ 100,000	\$	100,000	\$ 100,000
9	POWER & LIGHTING						\$ 291,500
9.1	Light pole (1-way) and luminous lights	12	No	\$ 8,000	_	96,000	
9.2	Light pole (2-way) and luminous lights	9	No	\$ 9,000	-	81,000	
9.3	JUP lighting single	8	No	\$ 4,000		32,000	
9.4	JUP lighting dual	5	No	\$ 5,000	_	25,000	
9.5	Cabling, conduits and pits	1	Item	\$ 40,000	_	40,000	
9.6	Electrical connection	1	Item	\$ 17,500	\$	17,500	



Version 8.1

PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS

CG130898

Clyde PSP - Intersection Cost Estimate

Intersection Ref: IN-53-11

Amended design as per VicRoads and MPA comments Sep 2014

Sheet Ref: T12

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	1	AMOUNT	SUBTOTAL
10	LANDSCAPING WORKS						\$ 56,948
10.1	Topsoiling seeding	6,700	m²	\$ 8.50	\$	56,948	
11	SIGNING	1	item	\$ 7,500	\$	7,500	\$ 7,500
12	LINEMARKING (Thermoplastic)	1	item	\$ 25,000	\$	25,000	\$ 25,000
13	SERVICE RELOCATION						\$ 300,000
13.1	Water, gas, telstra (adopted allowance)	1	Item	\$ 150,000	\$	150,000	
13.2	Overhead electrical (adopted allowance)	1	Item	\$ 150,000	\$	150,000	
14	MISCELLANEOUS						\$ -
15	PROVISIONAL SUM - DAYWORK		item		\$	-	\$ -

	TOTAL A - C		\$	3,980,510	\$ 3,980,510
D	Contingency				
	Contingency (15% of C)			15%	\$ 519,196.93

E	PROJECT BUDGET			
	Total Estimate			\$ 4,499,707

Notes:

- Due to flat topography of the area, no major cut/fill works have been included for road

Substations

1 No allowance for substations

Preliminaries

2 Based on nominal rates

Subsoil Drain

3 Assume same as kerb and channel

Side Entry Pits

4 Based on 50 m intervals

Tactile Pavers

5 Assume hazard TGSI's (no directional)

Signing

6 Nominal rate

Pavement

7 Assume deep lift ashpalt pavement

Tree Removal

8 Based on preliminary information

9

AUTHOR: Harrendran Mohan Date: 14/10/2014



Version 8.1

PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS

CG130898

9.6

Intersection Ref:	ection Cost Estimate IN-53-12								
	Amended design as per VicRoads and MPA comment	s SEP 2014							
Sheet Ref:	T13								
ITEM	DESCRIPTION	QUANTITY	UNIT		RATE		AMOUNT		UBTOTAL
Α	Project and Program Management (5%)							\$	206,988
	Project Management		3.00%		0.00%	\$	124,193		
	Project scoping, planning, scheduling, monitoring,								
	reporting and commissioning					_			
	Management of preconstruction activities, development of								
	tender documents and management of contracts								
	Managing external interfaces, including community					-			
	liaison, environmental issues, traffic issues etc								
	Records management					-			
	Program Administration		2.00%		0.00%	\$	82,795		
		Y		(18) ((11) (11) (11)	anarahan kan kan kan kan kan kan kan kan kan k	1 -	,		
В	Design and Investigation (10%)							\$	413,976
	Traffic Investigations		0.85%		0.00%	\$	35,188		
	Cadastral and Engineering Survey		1.20%		0.00%	\$	49,677		
	Geotechnical investigations Pavement Investigations and								
	Design		1.20%		0.00%	\$	49,677		
	Environmental Investigations				0.00%	\$	-		
	Landscape Design				0.00%	\$	-		
	Preliminary and Final Design		4.25%		0.00%	\$	175,940		
	Construction Management		2.50%		0.00%	\$	103,494		
С	Construction					<u>ф</u>	4 420 702	•	4 420 700
1	PRELIMINARIES					\$	4,139,762	\$	4,139,762 235,000
1.1	Site establishment (2.5% of total construction cost)	1	Item	\$	105,000	\$	105,000	Ψ	233,000
1.2	Site management & supervision including QA	20	wks	\$	2,500		50,000		
1.3	Provision for traffic	1	Item	\$	75,000	_	75,000		
1.4	Cultural Heritage contigency	1	Item	\$	5,000		5,000		
2	DEMOLITION	ı	Item	Ψ	3,000	Ψ	3,000	\$	53,800
2.1	Trees	10	No	\$	500	\$	5,000	Ψ	33,000
2.2	Plane existing ashpalt	3,050	m ²	\$	16	-	48,800		
3	EARTHWORKS	5,030		Ψ	10	Ψ	+0,000	\$	262,530
3.1	Stripping topsoil (100mm)	8,530	m²	\$	6	\$	51,180		202,000
3.2	Excavation and removal	5,520	m³	\$	30	\$	165,600		
3.3	Stockpile reclaimed FCR	3,050	m³	\$	15	_	45,750		
4	PAVEMENT	3,550		1	10	Ť	.5,. 66	\$	1,770,675
4.1	Deep lift asphalt 195 mm	9,335	m²	\$	105	\$	980,175		.,,
4.2	Subbase course - 250 mm 3% CTCR	11,040	m²	\$	55		607,200		
4.3	Shoulder - full depth pavement	540	m²	\$	145	_	78,300		
	ccc doptii pavoinont	540		Ψ.	1 10	Ψ.	, 0,000		

1

Item

11,000 \$

11,000

Electrical connection



Version 8.1

5,381,691

PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS

CG130898

Clyde PSP - Intersection Cost Estimate

Intersection Ref: IN-53-12

Amended design as per VicRoads and MPA comments SEP 2014

Sheet Ref: T13

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	,	AMOUNT	SUBTOTAL
10	LANDSCAPING WORKS						\$ 64,007
10.1	Topsoiling seeding	7,530	m²	\$ 8.50	\$	64,007	
11	SIGNING	1	item	\$ 7,500	\$	7,500	\$ 7,500
12	LINEMARKING (Thermoplastic)	1	item	\$ 25,000	\$	25,000	\$ 25,000
13	SERVICE RELOCATION						\$ 300,000
13.1	Water, gas, telstra (adopted allowance)	1	Item	\$ 150,000	\$	150,000	
13.2	Overhead electrical (adopted allowance)	1	Item	\$ 150,000	\$	150,000	
14	MISCELLANEOUS						\$ -
15	PROVISIONAL SUM - DAYWORK		item		\$	-	\$ -

	TOTAL A - C			\$ 4,760,726	\$ 4,760,726
D	Contingency				
	Contingency (15% of C)			15%	\$ 620,964.32
	·				
E	PROJECT BUDGET				

Notes:

- Due to flat topography of the area, no major cut/fill works have been included for road

Substations

1 No allowance for substations

Preliminaries

2 Based on nominal rates

4 Based on 50 m intervals

Total Estimate

Subsoil Drain

3 Assume same as kerb and channel

Side Entry Pits

Tactile Pavers

5 Assume hazard TGSI's (no directional)

Signing

6 Nominal rate

Pavement

7 Assume deep lift ashpalt pavement

9

8 Based on preliminary information

10

- **9** Assume all existing asphalt roads to be demolished and FCR stockpiled
- 10 Assume crushed rock pavement will be removed as part of general earthworks

13

AUTHOR: Harrendran Mohan Date: 14/10/2014



PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS

CG130898

9.6

Clyde PSP - Intersection Cost Estimate Intersection Ref: IN-53-13

Amended design

r VicRoads and MPA comments Sep 2014

20 August 2015 Version 8.1

ITEM	Ref: T14 DESCRIPTION	QUANTITY	UNIT		RATE		AMOUNT	S	UBTOTAL
Α	Project and Program Management (5%)							\$	128,610
	Project Management		3.00%		0.00%	\$	77,166		
	Project scoping, planning, scheduling, monitoring,								
	reporting and commissioning								
	Management of presenting tion activities, development								
	Management of preconstruction activities, development of tender documents and management of contracts								
	Managing external interfaces, including community								
	liaison, environmental issues, traffic issues etc								
	Records management								
	Program Administration		2.00%		0.00%	\$	51,444		
_									057.040
В	Design and Investigation (10%)		0.050/		0.000/	•	04.064	\$	257,219
	Traffic Investigations Cadastral and Engineering Survey		0.85% 1.20%		0.00%	\$	21,864 30,866		
	Geotechnical investigations Pavement Investigations		1.2076		0.00%	Φ	30,000		
	and Design		1.20%		0.00%	\$	30,866		
	Environmental Investigations				0.00%	\$	-		
	Landscape Design				0.00%	\$	-		
	Preliminary and Final Design		4.25%		0.00%	\$	109,318		
	Construction Management		2.50%		0.00%	\$	64,305		
						1 4			
C	Construction PRELIMINARIES					\$	2,572,191	\$	2,572,191
1	-	4		_	05.000	•	05.000	\$	166,000
1.1	Site establishment (2.5% of total construction cost)	1	Item	\$	65,000	_	65,000 40.000		
1.3	Site management & supervision including QA Provision for traffic	16	wks Item	\$	2,500 56,000	-	56,000		
1.4	Cultural Heritage contigency	1	Item	\$	5,000	_	5,000		
2	DEMOLITION	1	пеш	Ψ	3,000	Ψ	3,000	\$	2,500
2.1	Trees	5	No	\$	500	\$	2,500	Ψ	2,000
3	EARTHWORKS	J	140	Ψ	- 500	Ψ	2,500	\$	112,575
3.1	Stripping topsoil (100mm)	5,125	m²	\$	6	\$	30,750	_	1.2,0.0
3.2	Excavation and removal	2,728	m³	\$	30	-	81,825		
4	PAVEMENT	,				Ť		\$	875,075
4.1	Deep lift asphalt 195 mm	4,395	m²	\$	105	\$	461,475		
4.2	Subbase course - 250 mm 3% CTCR	5,455	m²	\$	55	\$	300,025		
4.3	Shoulder - full depth pavement	335	m²	\$	145	\$	48,575		
4.4	Subgrade Improvement (2.5% of total construction cost)	1	Item	\$	65,000	\$	65,000		
5	DRAINAGE							\$	318,475
5.1	Subsoil drains 100mm dia - screenings	1,060	Lm	\$	30	\$	31,800		
5.2	Subsoil drains 100mm dia - no fines conc	335	Lm	\$	45	_	15,075		
5.3	375 RCP (class 2)	1,230	Lm	\$	170	\$	209,100		
5.4	Side entry pits CONCRETE WORKS	25	No	\$	2,500	\$	62,500	\$	194,200
6.1		1.060	l m	•	F0	0	E2 000	Ф	194,200
6.2	Kerb &channel Footpath/Shared Path (125 mm, residential, as per	1,060	Lm	\$	50	\$	53,000		
0.2	MPA)	635	Lm	\$	130	\$	82,550		
6.4	Laybacks and tactile pavers	12	No	\$	850		10,200		
6.5	Concrete island infill	320	m²	\$	85	_	27,200		
6.5	10m concrete maintenace area	250	m²	\$	85	-	21,250		
7	TRAFFIC SIGNAL WORKS							\$	275,000
7.1	General items	1	Item	\$	27,500	\$	27,500		
7.2	Conduits	1	Item	\$	22,000	\$	22,000		
7.3	Pedestals	1	Item	\$	55,000	\$	55,000		
7.4	Lanterns	1	Item	\$	22,000	-	22,000		
7.5	Controller	1	Item	\$	82,500		82,500		
7.6	Detectors	1	Item	\$	11,000		11,000		
7.7	Cabling & connections	1	Item	\$	44,000		44,000		
7.8	Clean-up SIGNAL MAINTENANCE (10 YEARS) by Road	1	Item	\$	11,000	\$	11,000		
8	Authority	1	itom	•	100.000	0	100.000	•	100,000
9	POWER & LIGHTING	ı	item	\$	100,000	\$	100,000	\$	172,000
9.1	Light pole (1-way) and luminous lights	4	No	•	8,000	Φ	32,000	Ψ	172,000
9.1	Light pole (1-way) and luminous lights Light pole (2-way) and luminous lights	6	No	\$	9,000	_	54,000		
9.3	JUP lighting single	8	No	\$	4,000	-	32,000		
9.4	JUP lighting dual	2	No	\$	5,000	_	10,000		
9.5	Cabling, conduits and pits	1	Item	\$	30,000		30,000		
9.6	Electrical connection	1	Item	\$	14 000		14 000		

Item

\$

1

14,000 \$

14,000

Electrical connection



Version 8.1

PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS

CG130898

Clyde PSP - Intersection Cost Estimate

Intersection Ref: IN-53-13

Amended design as per VicRoads and MPA comments Sep 2014

Sheet Ref: T14

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	1	AMOUNT	SUBTOTAL
10	LANDSCAPING WORKS						\$ 23,866
10.1	Topsoiling seeding	2,808	m²	\$ 8.50	\$	23,866	
11	SIGNING	1	item	\$ 7,500	\$	7,500	\$ 7,500
12	LINEMARKING (Thermoplastic)	1	item	\$ 25,000	\$	25,000	\$ 25,000
13	SERVICE RELOCATION						\$ 300,000
13.1	Water, gas, telstra (adopted allowance)	1	Item	\$ 150,000	\$	150,000	
13.2	Overhead electrical (adopted allowance)	1	Item	\$ 150,000	\$	150,000	
14	MISCELLANEOUS						\$ -
15	PROVISIONAL SUM - DAYWORK		item		\$	-	\$ -

	IOTAL A - C		Ψ	2,956,020	Þ	2,950,020
D	Contingency					
	Contingency (15% of C)			15%	\$	385,828.63
	·					

E	PROJECT BUDGET			
	Total Estimate			\$ 3,343,848

Notes:

- Due to flat topography of the area, no major cut/fill works have been included for road

Substations

1 No allowance for substations

Preliminaries

2 Based on nominal rates

Subsoil Drain

3 Assume same as kerb and channel

Side Entry Pits

4 Based on 50 m intervals

Tactile Pavers

5 Assume hazard TGSI's (no directional)

Signing

6 Nominal rate

Pavement

7 Assume deep lift ashpalt pavement

Tree Removal

8 Based on preliminary information

Roads

9 Existing road conditions based on limited crushed rock roads running E-W assumed to be of no consequence to works

AUTHOR: Harrendran Mohan

Date: 14/10/2014



Version 8.1

PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS

CG130898

Clyde PSP - Intersection Cost Estimate

Intersection Ref: IN-53-14

Amended design as per VicRoads and MPA comments Sep 2014

Sheet Ref: T15

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	AMOUNT		SU	BTOTAL
Α	Project and Program Management (5%)						\$	115,699
	Project Management		3.00%	0.00%	\$	69,419		
	Project scoping, planning, scheduling, monitoring, reporting and commissioning							
	Management of preconstruction activities, development of tender documents and management of contracts							
	Managing external interfaces, including community liaison, environmental issues, traffic issues etc							
	Records management							
	Program Administration		2.00%	0.00%	\$	46,280		

В	Design and Investigation (10%)				\$ 231,398
	Traffic Investigations	0.85%	0.00%	\$ 19,669	
	Cadastral and Engineering Survey	1.20%	0.00%	\$ 27,768	
	Geotechnical investigations Pavement Investigations				
	and Design	1.20%	0.00%	\$ 27,768	
	Environmental Investigations		0.00%	\$ -	
	Landscape Design		0.00%	\$ -	
	Preliminary and Final Design	4.25%	0.00%	\$ 98,344	
	Construction Management	2.50%	0.00%	\$ 57,850	

	Construction Management	//////////////////////////////////////	2.30 /6	<u> </u>	0.0076	Ψ	7,000		
С	Construction					\$ 2,313	3,982	\$	2,313,982
1	PRELIMINARIES							\$	154,000
1.1	Site establishment (2.5% of total construction cost)	1	Item	\$	58,000	\$ 58	3,000		
1.2	Site management & supervision including QA	16	wks	\$	2,500	\$ 40	0,000		
1.3	Provision for traffic	1	Item	\$	56,000	\$ 50	6,000		
1.4	Cultural Heritage contigency	1	Item			\$	-		
2	DEMOLITION							\$	12,500
2.1	Trees	25	No	\$	500	\$ 12	2,500		
3	EARTHWORKS							\$	82,992
3.1	Stripping topsoil (100mm)	2,427	m²	\$	6	\$ 14	4,562		
3.2	Excavation and removal	2,281	m³	\$	30		3,430		
4	PAVEMENT	2,20.		+		-	3, .00	\$	750,735
4.1	Deep lift asphalt 195 mm	3.690	m²	\$	105	\$ 38	7,450		700,700
4.2	Subbase course - 250 mm 3% CTCR	4,562	m²	\$	55	•	0,910		
4.3	Shoulder - full depth pavement	375	m²	\$	145		4,375		
4.4	Subgrade Improvement (2.5% of total construction cost)	1	Item	\$	58,000		3,000		
5	DRAINAGE	' '	item	Ψ	30,000	ψ 50	3,000	\$	263,035
5.1	Subsoil drains 100mm dia - screenings	872	Lm	\$	30	\$ 20	6,160	Ψ	200,000
5.2	Subsoil drains 100mm dia - screenings Subsoil drains 100mm dia - no fines conc	375	Lm	\$	45				
				\rightarrow			5,875		
5.3	375 RCP (class 2)	1,000	Lm	\$	170		0,000		
5.4	Side entry pits	20	No	\$	2,500	\$ 50	0,000	Φ.	004.400
6	CONCRETE WORKS							\$	201,100
6.1	Kerb &channel	872	Lm	\$	50	\$ 43	3,600		
6.2	Footpath/Shared Path (125 mm, residential, as per MPA)	695	Lm	\$	130	\$ 90	0,350		
6.4	Laybacks and tactile pavers	10	No	\$	850	\$ 8	3,500		
6.5	Concrete island infill	370	m²	\$	85	\$ 3	1,450		
6.5	10m concrete maintenace area	320	m²	\$	85	\$ 2	7,200		
7	TRAFFIC SIGNAL WORKS							\$	237,500
7.1	General items	1	Item	\$	23,000	\$ 23	3,000		
7.2	Conduits	1	Item	\$	18,000	\$ 18	3,000		
7.3	Pedestals	1	Item	\$	45,000		5,000		
7.4	Lanterns	1	Item	\$			3,000		
7.5	Controller	1	Item	\$	75.000		5,000		
7.6	Detectors	1	Item	\$	9,500		9,500		
7.7	Cabling & connections	1	Item	\$	40,000		0,000		
7.8	Clean-up	1	Item	\$	9,000		9,000		
8	SIGNAL MAINTENANCE (10 YEARS) by Road	1	пеш	Ψ	3,000	Ψ ,	3,000		
Ü	Authority	1	item	\$	100,000	\$ 100	0.000	\$	100,000
9	POWER & LIGHTING	-		+	100,000	Ψ .σ.	3,000	\$	157,000
9.1	Light pole (1-way) and luminous lights	5	No	\$	8,000	\$ 40	0,000		21,500
9.2	Light pole (1-way) and luminous lights	4	No	\$	9,000		6,000		
9.3	JUP lighting single	8	No	\$	4,000		2,000		
9.4	JUP lighting dual	1	No	\$	5,000		5,000		
9.5	Cabling, conduits and pits	1	Item	\$	30,000		0,000		
				\rightarrow					
9.6	Electrical connection	1	Item	\$	14,000	\$ 14	4,000		



10	LANDSCAPING WORKS					\$ 22,620
10.1	Topsoiling seeding	2,661	m²	\$ 8.50	\$ 22,620	
11	SIGNING	1	item	\$ 7,500	\$ 7,500	\$ 7,500
12	LINEMARKING (Thermoplastic)	1	item	\$ 25,000	\$ 25,000	\$ 25,000
13	SERVICE RELOCATION					\$ 300,000
13.1	Water, gas, telstra (adopted allowance)	1	Item	\$ 150,000	\$ 150,000	
13.2	Overhead electrical (adopted allowance)	1	Item	\$ 150,000	\$ 150,000	
14	MISCELLANEOUS					\$ -
15	PROVISIONAL SUM - DAYWORK		item		\$ -	\$ -
	TOTAL A - C				\$ 2,661,079	\$ 2,661,079
D	Contingency					
	Contingency (15% of C)				15%	\$ 347,097.27

	Contingency (15% of C)		15%	\$ 347,097.27
E	PROJECT BUDGET			
	Total Estimate			\$ 3,008,176

Notes:

- Due to flat topography of the area, no major cut/fill works have been included for road

Substations

1 No allowance for substations

Preliminaries

2 Based on nominal rates

Subsoil Drain

3 Assume same as kerb and channel

Side Entry Pits

4 Based on 50 m intervals

Tactile Pavers

5 Assume hazard TGSI's (no directional)

Signing

6 Nominal rate

Pavement

7 Assume deep lift ashpalt pavement

Tree Removal

 ${\bf 8} \,\, {\rm Based} \,\, {\rm on} \,\, {\rm preliminary} \, {\rm information}$

Roads

9 Existing road conditions based on limited crushed rock roads running E-W assumed to be of no consequence to works

AUTHOR: Harrendran Mohan Date: 14/10/2014



77,982

20 August 2015

Version 8.1

PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS

Records management Program Administration

CG130898

ITEM

Clyde PSP - Intersection Cost Estimate

Intersection Ref: IN-53-15

design as per VicRoads and MPA comments Sep 2014

Managing external interfaces, including community liaison, environmental issues, traffic issues etc

Sheet

	Amended design as per vickoads and MPA comme	ents Sep 2014					
t Ref:	T16						
	DESCRIPTION	QUANTITY	UNIT	RATE	AMOUNT	S	UBTOTAL
	Project and Program Management (5%)					\$	194,955
	Project Management		3.00%	0.00%	\$ 116,973		
	Project scoping, planning, scheduling, monitoring, reporting and commissioning						
	Teporting and commissioning						
	Management of preconstruction activities, development						
	of tender documents and management of contracts						

2.00%

0.00%

\$

В	Design and Investigation (10%)				\$ 389,911
	Traffic Investigations	0.85%	0.00%	\$ 33,142	
	Cadastral and Engineering Survey	1.20%	0.00%	\$ 46,789	
	Geotechnical investigations Pavement Investigations				
	and Design	1.20%	0.00%	\$ 46,789	
	Environmental Investigations		0.00%	\$ -	
	Landscape Design		0.00%	\$ -	
	Preliminary and Final Design	4.25%	0.00%	\$ 165,712	
	Construction Management	2.50%	0.00%	\$ 97,478	

С	Construction					\$	3,899,107	\$	3,899,107
1	PRELIMINARIES					Ť	-,,	\$	229,000
1.1	Site establishment (2.5% of total construction cost)	1	Item	\$	99,000	\$	99,000	_	
1.2	Site management & supervision including QA	20	wks	\$	2,500	\$	50,000		
1.3	Provision for traffic	1	Item	\$	80,000	\$	80,000		
1.4	Cultural Heritage contigency	1	Item	†	,	\$	-		
2	DEMOLITION					Ť		\$	60,000
2.1	Trees	120	No	\$	500	\$	60,000		
3	EARTHWORKS					Ť	,	\$	181,110
3.1	Stripping topsoil (100mm)	5,135	m²	\$	6	\$	30,810		
3.2	Excavation and removal	5,010	m³	\$	30	\$	150,300		
4	PAVEMENT	-,-				İ	,	\$	1,578,575
4.1	Deep lift asphalt 195 mm	8,090	m²	\$	105	\$	849,450		, ,
4.2	Subbase course - 250 mm 3% CTCR	10,020	m²	\$	55	\$	551,100		
4.3	Shoulder - full depth pavement	545	m²	\$	145	\$	79.025		
4.4	Subgrade Improvement (2.5% of total construction cost)	1	Item	\$	99,000	\$	99,000		
5	DRAINAGE				,	İ	,	\$	405,625
5.1	Subsoil drains 100mm dia - screenings	1.930	Lm	\$	30	\$	57,900		<u> </u>
5.2	Subsoil drains 100mm dia - no fines conc	545	Lm	\$	45	\$	24,525		
5.3	375 RCP (class 2)	1,460	Lm	\$	170	\$	248.200		
5.4	Side entry pits	30	No	\$	2,500	\$	75,000		
6	CONCRETE WORKS			1	_,,,,,,	Ť		\$	437,550
6.1	Kerb &channel	1,930	Lm	\$	50	\$	96,500		
6.2	Footpath/Shared Path (125 mm, residential, as per MPA)	1,270	Lm	\$	130	\$	165,100		
6.4	Laybacks and tactile pavers	24	No	\$	850	\$	20,400		
6.5	Concrete island infill	930	m²	\$	85	\$	79,050		
6.5	10m concrete maintenace area	900	m²	\$	85	\$	76,500		
7	TRAFFIC SIGNAL WORKS	300		Ψ		Ψ	70,000	\$	275,000
7.1	General items	1	Item	\$	27,500	\$	27,500	_	2.0,000
7.2	Conduits	1	Item	\$		\$	22,000		
7.3	Pedestals	1	Item	\$	55,000	_	55,000		
7.4	Lanterns	1	Item	\$	22,000	\$	22,000		
7.5	Controller	1	Item	\$	82,500	\$	82,500		
7.6	Detectors	1	Item	\$	11,000	\$	11,000		
7.7	Cabling & connections	1	Item	\$	44.000	\$	44,000		
7.8	Clean-up	1	Item	\$	11,000	\$	11,000		
8	SIGNAL MAINTENANCE (10 YEARS) by Road	•	10111	+	11,000	T.	11,000		
	Authority	1	item	\$	100,000	\$	100,000	\$	100,000
9	POWER & LIGHTING	-		+	,	Ť	,	\$	225,000
9.1	Light pole (1-way) and luminous lights	-	No	\$	8,000	\$	-		-,,,,,,,,
9.2	Light pole (2-way) and luminous lights	16	No	\$	9,000	\$	144,000		
9.3	JUP lighting single	4	No	\$	4,000	\$	16,000		
9.4	JUP lighting dual	4	No	\$		\$	20,000		
9.5	Cabling, conduits and pits	1	Item	\$	30,000	\$	30,000		
9.6	Electrical connection	1	Item	\$	15,000	\$	15,000		
U.U	Electrical confliction		поп	ĮΨ	10,000	ΙΨ	10,000		



\$ 4,483,973 | \$

20 August 2015

Version 8.1

PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS

TOTAL A - C

CG130898

Clyde PSP - Intersection Cost Estimate

Intersection Ref: IN-53-15

Amended design as per VicRoads and MPA comments Sep 2014

Sheet Ref: T16

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	<i> 1</i>	TNUOMA	SUBTOTAL
10	LANDSCAPING WORKS						\$ 74,747
10.1	Topsoiling seeding	8,794	m²	\$ 8.50	\$	74,747	
11	SIGNING	1	item	\$ 7,500	\$	7,500	\$ 7,500
12	LINEMARKING (Thermoplastic)	1	item	\$ 25,000	\$	25,000	\$ 25,000
13	SERVICE RELOCATION						\$ 300,000
13.1	Water, gas, telstra (adopted allowance)	1	Item	\$ 150,000	\$	150,000	
13.2	Overhead electrical (adopted allowance)	1	Item	\$ 150,000	\$	150,000	
14	MISCELLANEOUS						\$ -
15	PROVISIONAL SUM - DAYWORK		item		\$	-	\$ -

D	Contingency			
	Contingency (15% of C)		15%	\$ 584,866.03

Е	PROJECT BUDGET			
	Total Estimate			\$ 5,068,839

Notes:

- Due to flat topography of the area, no major cut/fill works have been included for road

Substations

1 No allowance for substations

Preliminaries

2 Based on nominal rates

Subsoil Drain

3 Assume same as kerb and channel

Side Entry Pits

4 Based on 50 m intervals

Tactile Pavers

5 Assume hazard TGSI's (no directional)

Signing

6 Nominal rate

Pavement

7 Assume deep lift ashpalt pavement

Tree Removal

8 Based on preliminary information

Roads

9 Existing road conditions based on limited crushed rock roads running N-S and E-W assumed to be of no consequence to works

AUTHOR: Harrendran Mohan

Date: 14/10/2014



PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS

CG130898

9.2

Clyde PSP - Intersection Cost

Intersection Ref: IN-53-16

Amended design as per VicRoads and MPA comments Sep 2014

	Version 8.1
t Estimate	

ITEM	Ref: T17 DESCRIPTION	QUANTITY	UNIT		RATE		AMOUNT	S	JBTOTAL
A	Design and Investigation (10%)	QUANTITI	ONIT		IXAIL		AWOUNT	\$	129,837
Α			2.000/		0.000/	Φ.	77.000	Ф	129,037
	Project Management		3.00%		0.00%	\$	77,902		
	Project scoping, planning, scheduling, monitoring,								
	reporting and commissioning								
	Management of preconstruction activities, development								
	of tender documents and management of contracts								
	Managing external interfaces, including community								
	liaison, environmental issues, traffic issues etc								
	Records management								
	Program Administration		2.00%		0.00%	\$	51,935		
	i rogram Administration		2.0076		0.0076	Ψ	31,933		
_	O								
В	Construction including Final Design							\$	259,674
	Traffic Investigations		0.85%		0.00%	\$	22,072		
	Cadastral and Engineering Survey		1.20%		0.00%	\$	31,161		
	Geotechnical investigations Pavement Investigations								
	and Design		1.20%		0.00%	\$	31,161		
	Environmental Investigations				0.00%	\$			
	Landscape Design				0.00%	\$			
			4.050/				440.000		
	Preliminary and Final Design		4.25%		0.00%	\$	110,362		
	Construction Management		2.50%		0.00%	\$	64,919		
С	Construction					\$	2,746,741	\$	2,596,741
1	PRELIMINARIES							\$	171,000
1.1	Site establishment (2.5% of total construction cost)	1	Item	\$	65,000	\$	65,000		,
1.2	Site management & supervision including QA	18	wks	\$	2,500	_	45,000		
						-			
1.3	Provision for traffic	1	Item	\$	56,000	_	56,000		
1.4	Cultural Heritage contigency	1	Item	\$	5,000	\$	5,000		
2	DEMOLITION							\$	70,300
2.1	Trees	60	No	\$	500	\$	30,000		
2.2	base.	1	Item	\$	25,000	\$	25,000		
2.3	buoc.	'	попп	$+^{\psi}$	20,000	Ψ	20,000		
2.0	Excavation of dam sludge and stockpiling on site to dry	510	m³	\$	30	\$	15,300		
^	EARTHWORKS	310	111-	Ψ	30	Ψ	13,300	Φ.	105 506
3								\$	125,526
3.1	Stripping topsoil (100mm)	3,620	m²	\$	6	\$	16,671		
3.2	Excavation and removal	2,779	m³	\$	30	\$	83,355		
3.4	Filling (type A) and level 1 compaction of existing dams	2,550	m³	\$	10	\$	25,500		
4	PAVEMENT	/					- ,	\$	893,730
4.1	Deep lift asphalt 195 mm	4,522	m²	\$	105	\$	474,810	Ψ	000,700
				\rightarrow		-			
4.2	Subbase course - 250 mm 3% CTCR	5,557	m²	\$	55	\$	305,635		
4.3	Shoulder - full depth pavement	333	m²	\$	145	\$	48,285		
4.4	Subgrade Improvement (2.5% of total construction cost)	1	Item	\$	65,000	\$	65,000		
5	DRAINAGE							\$	275,335
5.1	Subsoil drains 100mm dia - screenings	1,035	Lm	\$	30	\$	31,050		
5.2	Subsoil drains 100mm dia - no fines conc	333	Lm	\$	45	\$	14,985		
						_			
5.3	375 RCP (class 2)	1,040	Lm	\$	170	\$	176,800		
5.4	Side entry pits	21	No	\$	2,500	\$	52,500		
6	CONCRETE WORKS							\$	218,025
6.1	Kerb &channel	1,035	Lm	\$	50	\$	51,750		
6.2	MPA)	720	Lm	\$	130	\$	93,600		
6.4	Laybacks and tactile pavers	24	No	\$	850		20,400		
6.5	Concrete island infill	350	m ²	\$	85	_	29,750		
						-			
6.5	10m concrete maintenance area	265	m²	\$	85	\$	22,525		
7	TRAFFIC SIGNAL WORKS							\$	275,000
7.1	General items	1	Item	\$	27,500	\$	27,500		
7.2	Conduits	1	Item	\$	22,000	\$	22,000		
7.3	Pedestals	1	Item	\$	55,000	_	55,000		
7.4	Lanterns	1	Item	\$	22,000		22,000		
				\rightarrow					
7.5	Controller	1	Item	\$	82,500		82,500		
7.6	Detectors	1	Item	\$	11,000	_	11,000		
7.7	Cabling & connections	1	Item	\$	44,000	\$	44,000		
7.8	Clean-up	1	Item	\$	11,000	-	11,000		
8	Authority	1	item	\$	100,000		100,000	\$	100,000
9	POWER & LIGHTING	<u> </u>	Kom	Ψ	100,000	Ψ	100,000	\$	272,500
						_		Ф	272,500
9.1	Light pole (1-way) and luminous lights	10	No	\$	8,000		80,000		
9.2	Light pole (2-way) and luminous lights	11	No	\$	9,000	l c	99,000		

11

No

Light pole (2-way) and luminous lights

8,000 \$ 9,000 \$

99,000



Version 8.1

PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS

CG130898

Clyde PSP - Intersection Cost Estimate

Intersection Ref: IN-53-16

Amended design as per VicRoads and MPA comments Sep 2014

Sheet Ref: T17

Sneet Re	er: 117					
ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	AMOUNT	SUBTOTAL
9.3	JUP lighting single	4	No	\$ 4,000	\$ 16,000	
9.4	JUP lighting dual	4	No	\$ 5,000	\$ 20,000	
9.5	Cabling, conduits and pits	1	Item	\$ 40,000	\$ 40,000	
9.6	Electrical connection	1	Item	\$ 17,500	\$ 17,500	
10	LANDSCAPING WORKS					\$ 12,825
10.1	Topsoiling seeding	1,509	m²	\$ 8.50	\$ 12,825	
11	SIGNING	1	item	\$ 7,500	\$ 7,500	\$ 7,500
12	LINEMARKING (Thermoplastic)	1	item	\$ 25,000	\$ 25,000	\$ 25,000
13	SERVICE RELOCATION					\$ 150,000
13.1	Water, gas, telstra (adopted allowance)	1	Item	\$ 150,000	\$ 150,000	
13.2	Overhead electrical (adopted allowance)	1	Item	\$ 150,000	\$ 150,000	
14	MISCELLANEOUS					\$ -
15	PROVISIONAL SUM - DAYWORK		item		\$ -	\$ -
	TOTAL A - C				\$ 3,136,252	\$ 2,986,252
D	Contingency					
		0			15%	\$ 389,511.18
E	PROJECT BUDGET					
	Total Estimate					\$ 3,375,764
Е	PROJECT BUDGET					
	Total Estimate					\$ 3,765,275

2	
	3 No allowance for substations
3	4 Based on nominal rates
4	5.
5	5 Assume same as kerb and channel
	6 Based on 50 m intervals
6	7 Assume hazard TGSI's (no directional)
7	The traction of the traction o
8	8 Nominal rate
J	9 Assume deep lift ashpalt pavement
9	10 Based on preliminary information
Roads	Dased on preliminary information

11 Harrendran Mohan

Earthworks 7/10/2014

12 Works on existing dams based on preliminary assessment only

13 Excavated earth derived from existing dams assumed to be non-contaminated

AUTHOR: Harrendran Mohan Date: 14/10/2014



20 August 2015 Version 8.1

PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS

CG130898

action Cost Estimate

•	ection Cost Estimate						
Intersection Ref:	IN-53-17						
Chast Date	Amended design as per VicRoads and MPA comme T18	ents Sep 2014					
Sheet Ref:	DESCRIPTION	QUANTITY	UNIT	RATE	AMOUNT		SUBTOTAL
A	Project and Program Management (5%)	QUARTITI	91111	INATE	AMOUNT	\$	159,711
	Project Management		3.00%	0.00%	\$ 95,827	Ť	,.
	Project scoping, planning, scheduling, monitoring, reporting and commissioning				,		
	Management of preconstruction activities, development of tender documents and management of contracts						
	Managing external interfaces, including community liaison, environmental issues, traffic issues etc						
	Records management						
	Program Administration		2.00%	0.00%	\$ 63,885		
_	Design and Investigation (400/)						040.40
В	Design and Investigation (10%)					\$	319,423
	Traffic Investigations		0.85%	0.00%	\$ 27,151		
	Cadastral and Engineering Survey Geotechnical investigations Pavement Investigations		1.20%	0.00%	\$ 38,331		
	and Design		1.20%	0.00%	\$ 38,331		
	Environmental Investigations		1.2070	0.00%	\$ 		
	Landscape Design			0.00%	\$ 		
	Preliminary and Final Design		4.25%	0.00%	\$ 135,755		
	Construction Management		2.50%	0.00%	\$ 79,856		
		<u> </u>	<u> </u>		 <u> </u>		
С	Construction				\$ 3,194,226	\$	3,194,226
1	PRELIMINARIES					\$	208,500
1.1	Site establishment (2.5% of total construction cost)	1	Item	\$ 81,000	\$ 81,000		
1.2	Site management & supervision including QA	19	wks	\$ 2,500	\$ 47,500		
1.3	Provision for traffic	1	Item	\$ 80,000	\$ 80,000		
1.4	Cultural Heritage contigency	1	Item		\$ -		
2	DEMOLITION					\$	22,500
2.1	Trees	45	No	\$ 500	\$ 22,500		
3	EARTHWORKS					\$	151,785

С	Construction					\$	3,194,226	\$ 3,194,226
1	PRELIMINARIES							\$ 208,500
1.1	Site establishment (2.5% of total construction cost)	1	Item	\$	81,000	\$	81,000	
1.2	Site management & supervision including QA	19	wks	\$	2,500	\$	47,500	
1.3	Provision for traffic	1	Item	\$	80,000	\$	80,000	
1.4	Cultural Heritage contigency	1	Item		,	\$	-	
2	DEMOLITION							\$ 22,500
2.1	Trees	45	No	\$	500	\$	22,500	
3	EARTHWORKS							\$ 151,785
3.1	Stripping topsoil (100mm)	5,585	m²	\$	6	\$	33,510	
3.2	Excavation and removal	3,943	m³	\$	30	\$	118,275	
4	PAVEMENT	·						\$ 1,220,675
4.1	Deep lift asphalt 195 mm	6,275	m²	\$	105	\$	658,875	
4.2	Subbase course - 250 mm 3% CTCR	7,885	m²	\$	55	\$	433,675	
4.3	Shoulder - full depth pavement	325	m²	\$	145	\$	47,125	
4.4	Subgrade Improvement (2.5% of total construction cost)	1	Item	\$	81,000	\$	81,000	
5	DRAINAGE							\$ 282,925
5.1	Subsoil drains 100mm dia - screenings	1,610	Lm	\$	30	\$	48,300	
5.2	Subsoil drains 100mm dia - no fines conc	325	Lm	\$	45	\$	14,625	
5.3	375 RCP (class 2)	1,000	Lm	\$	170	\$	170,000	
5.4	Side entry pits	20	No	\$	2,500	\$	50,000	
6	CONCRETE WORKS				,	Ť	,	\$ 337,575
6.1	Kerb &channel	1,610	Lm	\$	50	\$	80,500	
6.2	Footpath/Shared Path (125 mm, residential, as per	,		† <u> </u>		Ť	,	
	MPA)	1,000	Lm	\$	130	\$	130,000	
6.4	Laybacks and tactile pavers	22	No	\$	850	\$	18,700	
6.5	Concrete island infill	645	m²	\$	85	\$	54,825	
6.5	10m concrete maintenace area	630	m²	\$	85	\$	53,550	
7	TRAFFIC SIGNAL WORKS							\$ 275,000
7.1	General items	1	Item	\$	27,500	\$	27,500	
7.2	Conduits	1	Item	\$	22,000	\$	22,000	
7.3	Pedestals	1	Item	\$	55,000	\$	55,000	
7.4	Lanterns	1	Item	\$	22,000	\$	22,000	
7.5	Controller	1	Item	\$	82,500	\$	82,500	
7.6	Detectors	1	Item	\$	11,000	\$	11,000	
7.7	Cabling & connections	1	Item	\$	44,000	\$	44,000	
7.8	Clean-up	1	Item	\$	11,000	\$	11,000	
8	SIGNAL MAINTENANCE (10 YEARS) by Road							
	Authority	1	item	\$	100,000	\$	100,000	\$ 100,000
9	POWER & LIGHTING							\$ 215,500
9.1	Light pole (1-way) and luminous lights	1	No	\$	8,000	\$	8,000	
9.2	Light pole (2-way) and luminous lights	12	No	\$	9,000		108,000	
9.3	JUP lighting single	8	No	\$	4,000	\$	32,000	
9.4	JUP lighting dual	2	No	\$	5,000	\$	10,000	
9.5	Cabling, conduits and pits	1	Item	\$	40,000	\$	40,000	
9.6	Electrical connection	1	Item	\$		\$	17,500	



Version 8.1

PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS

TOTAL A - C

CG130898

Clyde PSP - Intersection Cost Estimate

Intersection Ref: IN-53-17

Amended design as per VicRoads and MPA comments Sep 2014

Sheet Ref: T18

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE		AMOUNT	SUBTOTAL
10	LANDSCAPING WORKS						\$ 47,266
10.1	Topsoiling seeding	5,561	m²	\$ 8.50	\$	47,266	
11	SIGNING	1	item	\$ 7,500	\$	7,500	\$ 7,500
12	LINEMARKING (Thermoplastic)	1	item	\$ 25,000	\$	25,000	\$ 25,000
13	SERVICE RELOCATION						\$ 300,000
13.1	Water, gas, telstra (adopted allowance)	1	Item	\$ 150,000	\$	150,000	
13.2	Overhead electrical (adopted allowance)	1	Item	\$ 150,000	\$	150,000	
14	MISCELLANEOUS						\$ -
15	PROVISIONAL SUM - DAYWORK		item		\$	-	\$ -

D	Contingency			
	Contingency (15% of C)		15%	\$ 479,133.96

E	PROJECT BUDGET			
	Total Estimate			\$ 4,152,494

Notes:

- Due to flat topography of the area, no major cut/fill works have been included for road

Substations

1 No allowance for substations

Preliminaries

2 Based on nominal rates

Subsoil Drain

3 Assume same as kerb and channel

Side Entry Pits

4 Based on 50 m intervals

Tactile Pavers

5 Assume hazard TGSI's (no directional)

Signing

6 Nominal rate

Pavement

7 Assume deep lift ashpalt pavement

Tree Removal

8 Based on preliminary information

Roads

9 Existing road conditions based on limited crushed rock roads running E-W and NW-SE assumed to be of no consequence to works

AUTHOR: Harrendran Mohan Date: 14/10/2014



20 August 2015 Version 8.1

PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS

CG130898

Clyde PSP - Intersection Cost Estimate

Intersection Ref: IN-53-18

Amended design as per VicRoads and MPA comments Sep 2014

Sheet	Ref: T41	-						
ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	A	MOUNT	SU	BTOTAL
Α	Project and Program Management (5%)						\$	111,730
	Project Management		3.00%	0.00%	\$	67,038		
	Project scoping, planning, scheduling, monitoring,							
	reporting and commissioning							
	Management of preconstruction activities, development							
	of tender documents and management of contracts							
	Managing external interfaces, including community							
	liaison, environmental issues, traffic issues etc							
	Records management							
	Program Administration		2.00%	0.00%	\$	44,692		
_								
В	Design and Investigation (10%)						\$	223,459
	Traffic Investigations		0.85%	0.00%	\$	18,994		
	Codestrol and Engineering Survey		1 200/	0.009/	6	26 015		

В	Design and Investigation (10%)				\$ 223,459
	Traffic Investigations	0.85%	0.00%	\$ 18,994	
	Cadastral and Engineering Survey	1.20%	0.00%	\$ 26,815	
	Geotechnical investigations Pavement Investigations				
	and Design	1.20%	0.00%	\$ 26,815	
	Environmental Investigations		0.00%	\$ -	
	Landscape Design		0.00%	\$ -	
	Preliminary and Final Design	4.25%	0.00%	\$ 94,970	
	Construction Management	2.50%	0.00%	\$ 55,865	

С	Construction				\$	2,234,592	\$ 2,234,592
1	PRELIMINARIES						\$ 159,000
1.1	Site establishment (2.5% of total construction cost)	1	Item	\$ 58,000	\$	58,000	
1.2	Site management & supervision including QA	16	wks	\$ 2,500	\$	40,000	
1.3	Provision for traffic	1	Item	\$ 56,000	\$	56,000	
1.4	Cultural Heritage contigency	1	Item	\$ 5,000	\$	5,000	
2	DEMOLITION						\$ 2,500
2.1	Trees	5	No	\$ 500	\$	2,500	
3	EARTHWORKS						\$ 105,393
3.1	Stripping topsoil (100mm)	5,183	m²	\$ 6	\$	31,098	
3.2	Excavation and removal	2,477	m³	\$ 30	\$	74,295	
4	PAVEMENT						\$ 769,905
4.1	Deep lift asphalt 195 mm	3,868	m²	\$ 105	\$	406,140	
4.2	Subbase course - 250 mm 3% CTCR	4,953	m²	\$ 55	\$	272,415	
4.3	Shoulder - full depth pavement	230	m²	\$ 145	\$	33,350	
4.4	Subgrade Improvement (2.5% of total construction cost)	1	Item	\$ 58,000	\$	58,000	
5	DRAINAGE						\$ 213,800
5.1	Subsoil drains 100mm dia - screenings	1,085	Lm	\$ 30	\$	32,550	
5.2	Subsoil drains 100mm dia - no fines conc	230	Lm	\$ 45	\$	10,350	
5.3	375 RCP (class 2)	770	Lm	\$ 170	\$	130,900	
5.4	Side entry pits	16	No	\$ 2,500	\$	40,000	
6	CONCRETE WORKS						\$ 181,645
6.1	Kerb &channel	1,085	Lm	\$ 50	\$	54,250	
6.2	Footpath/Shared Path (125 mm, residential, as per						
	MPA)	740	Lm	\$ 130	\$	96,200	
6.4	Laybacks and tactile pavers	6	No	\$ 850	\$	5,100	
6.5	Concrete island infill	67	m²	\$ 85	\$	5,695	
6.5	10m concrete maintenace area	240	m²	\$ 85	\$	20,400	
7	TRAFFIC SIGNAL WORKS						\$ 237,500
7.1	General items	1	Item	\$ 23,000	\$	23,000	
7.2	Conduits	1	Item	\$ 18,000	\$	18,000	
7.3	Pedestals	1	Item	\$ 45,000	\$	45,000	
7.4	Lanterns	1	Item	\$ 18,000	\$	18,000	
7.5	Controller	1	Item	\$ 75,000	\$	75,000	
7.6	Detectors	1	Item	\$ 9,500	\$	9,500	
7.7	Cabling & connections	1	Item	\$ 40,000	\$	40,000	
7.8	Clean-up	1	Item	\$ 9,000	\$	9,000	
8	SIGNAL MAINTENANCE (10 YEARS) by Road						
	Authority	1	item	\$ 100,000	\$	100,000	\$ 100,000
9	POWER & LIGHTING						\$ 114,000
9.1	Light pole (1-way) and luminous lights	1	No	\$ 8,000	\$	8,000	
9.2	Light pole (2-way) and luminous lights	4	No	\$ 9,000	_	36,000	
9.3	JUP lighting single	4	No	\$ 4,000	\$	16,000	
9.4	JUP lighting dual	2	No	\$ 5,000	\$	10,000	
9.5	Cabling, conduits and pits	1	Item	\$ 30,000	\$	30,000	
9.6	Electrical connection	1	Item	\$ 14,000	\$	14,000	



Version 8.1

PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS

TOTAL A - C

CG130898

Clyde PSP - Intersection Cost Estimate

Intersection Ref: IN-53-18

Amended design as per VicRoads and MPA comments Sep 2014

Sheet Ref: T41

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	AMOUNT		:	SUBTOTAL
10	LANDSCAPING WORKS						\$	18,349
10.1	Topsoiling seeding	2,159	m²	\$ 8.50	\$	18,349		
11	SIGNING	1	item	\$ 7,500	\$	7,500	\$	7,500
12	LINEMARKING (Thermoplastic)	1	item	\$ 25,000	\$	25,000	\$	25,000
13	SERVICE RELOCATION						\$	300,000
13.1	Water, gas, telstra (adopted allowance)	1	Item	\$ 150,000	\$	150,000		
13.2	Overhead electrical (adopted allowance)	1	Item	\$ 150,000	\$	150,000		
14	MISCELLANEOUS						\$	-
15	PROVISIONAL SUM - DAYWORK		item		\$	-	\$	-

D	Contingency			
	Contingency (15% of C)		15%	\$ 335,188.86

Е	PROJECT BUDGET			
	Total Estimate			\$ 2,904,970

Notes:

- Due to flat topography of the area, no major cut/fill works have been included for road

Substations

1 No allowance for substations

Preliminaries

2 Based on nominal rates

Subsoil Drain

3 Assume same as kerb and channel

Side Entry Pits

4 Based on 50 m intervals

Tactile Pavers

5 Assume hazard TGSI's (no directional)

Signing

6 Nominal rate

Pavement

7 Assume deep lift ashpalt pavement

Tree Removal

8 Based on preliminary information

9

AUTHOR: Harrendran Mohan Date: 14/10/2014



Version 8.1

PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS

CG130898

Clyde PSP - Intersection Cost Estimate

Intersection Ref: IN-54-01

Amended design as per VicRoads and MPA comments SEP 2014

ITEM	T19	QUANTITY	LINUT		DATE		MOUNT	CI	IDTOTAL
ITEM	DESCRIPTION Project and Program Management (F9()	QUANTITY	UNIT		RATE	P	MOUNT		JBTOTAL
A	Project and Program Management (5%)		0.000/		0.0001	_	20.005	\$	46,670
	Project Management Project scoping, planning, scheduling, monitoring,		3.00%		0.00%	\$	28,005		
	reporting and commissioning								
	reporting and commissioning					_			
	Management of preconstruction activities, development of								
	tender documents and management of contracts								
	Managing external interfaces, including community liaison,								
	environmental issues, traffic issues etc								
	Records management								
	Program Administration		2.00%		0.00%	\$	18,670		
	1.09.4		2.0070			Ψ	10,070		<u> </u>
В	Design and Investigation (10%)							\$	93,35
_	Traffic Investigations		0.85%		0.00%	\$	7,935	*	
	Cadastral and Engineering Survey		1.20%		0.00%	\$	11,202		
	Geotechnical investigations Pavement Investigations and		1.2070		0.0070	۳	11,202		
	Design		1.20%		0.00%	\$	11,202		
	Environmental Investigations				0.00%	\$	-		
	Landscape Design				0.00%	\$	_		
	Preliminary and Final Design		4.25%		0.00%	\$	39,674		
	Construction Management		2.50%		0.00%	\$	23,338		
	25.15.1 dollori managoment			<u> </u>	3.55/10//////////////////////////////////	Ψ	20,000		
С	Construction					\$	933,515	\$	933,51
1	PRELIMINARIES							\$	115,000
1.1	Site establishment (2.5% of total construction cost)	1	Item	\$	25,000	\$	25,000	-	. 10,000
1.2	Site management & supervision including QA	10	wks	\$	2,500	\$	25,000		
1.3	Provision for traffic	10	Item	\$	75,000	\$	65,000		
1.4	Cultural Heritage contigency	1	Item	Ψ.	75,000	\$	05,000		
2	DEMOLITION	'	петт			Ф		\$	22.73
		10	Na	-	500	•	F 000	Ф	22,13
2.1	Trees	10	No	\$	500	\$	5,000		
2.2	Foot paths	550	m²	\$	10	\$	5,500		
2.3	Concrete Driveways	235	m²	\$	25	\$	5,875		
2.4	Laybacks and tactile pavers	6	m²	\$	250	\$	1,500		
2.5	Line marking	1	item	\$	1,500	\$	1,500		
2.6	Plane existing ashpalt	210	m²	\$	16	\$	3,360		
3	EARTHWORKS			+-				\$	17,28
3.1	Stripping topsoil (100mm)	823	m²	\$	6	\$	4,938		
3.2	Excavation and removal	412	m³	\$	30	\$	12,345		
3.3	Stockpile reclaimed FCR	-	m³	\$	15	\$	-		
4	PAVEMENT							\$	143,03
4.1	Deep lift asphalt 195 mm	693	m²	\$	105	\$	72,765		
4.2	Subbase course - 250 mm 3% CTCR	823	m²	\$	55	\$	45,265		
4.3	Shoulder - full depth pavement	-	m²	\$	145	\$	-		
4.4	Subgrade Improvement (2.5% of total construction cost)	1	Item	\$	25,000	\$	25,000		
5	DRAINAGE							\$	20,80
5.1	Subsoil drains 100mm dia - screenings	130	Lm	\$	30	\$	3,900		
5.2	Subsoil drains 100mm dia - no fines conc	-	Lm	\$	45	\$	-		
5.3	375 RCP (class 2)	70	Lm	\$	170	\$	11,900		
5.4	Side entry pits	2	No	\$	2,500	\$	5,000		
6	CONCRETE WORKS							\$	70,54
6.1	Kerb &channel	130	Lm	\$	50	\$	6,500		
6.2	Footpath/Shared Path (125 mm, residential, as per MPA)	390	Lm	\$	130	\$	50,700		
6.4	Laybacks and tactile pavers	6	No	\$	850	\$	5,100		
6.5	Concrete island infill	97	m²	\$	85	\$	8,245		
6.5	10m concrete maintenance area inc above	-	m²	\$	85	\$			
7	TRAFFIC SIGNAL WORKS		141	Ψ	0.0	Ť		\$	118,300
7.1	General items	1	Item	\$	2,000	\$	2,000	Ţ	1 10,00
7.1	Conduits	1	Item	\$	5,000	\$	5,000		
7.3	Signal Pedestals	8	No	\$	4,500	_	36,000		
7.4	Lanterns	9	No	\$	2,200		19,800		
	Controller	1		\$		_			
7.5	 		Item	$\overline{}$	42,000	\$	42,000		
7.6	Detectors Cobling 8 connections	1	Item	\$	2,000	\$	2,000		
7.7	Cabling & connections	1	Item	\$	10,000	\$	10,000		
7.8	Clean-up SIGNAL MAINTENANCE (10 YEARS) by Road Authority	1	Item	\$	1,500	\$	1,500	0	CF 00
8		1	item	\$	65,000	\$	65,000	\$	65,00
9	POWER & LIGHTING							\$	45,00
9.1	Light pole (1-way) and luminous lights	2	No	\$	8,000	\$	16,000		
9.2	Light pole (2-way) and luminous lights	1	No	\$	9,000		9,000		
	Cabling, conduits and pits	1	Item	\$	15,000	\$	15,000		
9.5	Electrical connection	1	Item	\$	5,000	\$	5,000		



PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS

Contingency

CG130898

Clyde PSP - Intersection Cost Estimate

Intersection Ref: IN-54-01

Amended design as per VicRoads and MPA comments SEP 2014

Sheet Ref: T1

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	AMOUNT		8	UBTOTAL
10	LANDSCAPING WORKS						\$	1,322
10.1	Topsoiling seeding	156	m²	\$ 8.50	\$	1,322		
11	SIGNING	1	item	\$ 4,500	\$	4,500	\$	4,500
12	LINEMARKING (Thermoplastic)	1	item	\$ 10,000	\$	10,000	\$	10,000
13	SERVICE RELOCATION						\$	300,000
13.1	Water, gas, telstra (adopted allowance)	1	Item	\$ 150,000	\$	150,000		
13.2	Overhead electrical (adopted allowance)	1	Item	\$ 150,000	\$	150,000		
14	MISCELLANEOUS						\$	-
15	PROVISIONAL SUM - DAYWORK		item		\$	-	\$	-
	TOTAL A - C				\$	1,073,542	\$	1,073,542

	Contingency (15% of C)			15%	\$ 140,027.21
E	PROJECT BUDGET				
	Total Estimate				\$ 1,213,569

Notes:

- Due to flat topography of the area, no major cut/fill works have been included for road Demolition of existing structures /buildings etc within current properties not included

Substations

1 No allowance for substations

Preliminaries

2 Based on nominal rates

Subsoil Drain

3 Assume same as kerb and channel

Side Entry Pits

4 Based on 50 m intervals

Tactile Pavers

5 Assume hazard TGSI's (no directional)

Signing

6 Nominal rate

Pavement

7 Assume deep lift ashpalt pavement

8 Based on preliminary information

10

- 9 Assume all existing asphalt roads to be demolished and FCR stockpiled
- 10 Assume crushed rock pavement will be removed as part of general earthworks

13

AUTHOR: Harrendran Mohan
Date: 14/10/2014

REVIEWER: Rob Henry

Date: 14/10/2014

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20 August 2015 Version 8.1



Version 8.1

PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS

Landscape Design

CG130898

ITEM

Clyde PSP - Intersection Cost Estimate

Intersection Ref: IN-54-02

Sheet Ref:

Amended design as per VicRoads and MPA comments Sep 2014 T20											
DESCRIPTION	QUANTITY	UNIT	RATE	AMOUNT		SUBTOTAL					
Project and Program Management (5%)					\$	125,030					
Project Management		3.00%	0.00%	\$ 75,018							
Project scoping, planning, scheduling, monitoring,											
reporting and commissioning											

0.00%

\$

	Management of preconstruction activities, development of tender documents and management of contracts					
	Managing external interfaces, including community liaison, environmental issues, traffic issues etc					
	Records management					
	Program Administration	2.00%	0.00%	\$	50.012	
		118X 4444 4444 4444 4444 4444 4444 4444	V	////	/ -	
В	Design and Investigation (10%)					\$ 250,060
В	Design and Investigation (10%) Traffic Investigations	0.85%	0.00%	\$	21,255	\$ 250,060
В	Traffic Investigations	0.85% 1.20%	0.00%	\$	21,255	\$ 250,060
В	0 0 0			//// *	,	\$ 250,060
В	Traffic Investigations Cadastral and Engineering Survey			//// *	,	\$ 250,060

	Landscape Design				0.00%	\$	-		
	Preliminary and Final Design		4.25%		0.00%	\$	106,275		
	Construction Management		2.50%		0.00%	\$	62,515		
		<u> </u>	<u> </u>	<u> </u>	<u> 1011101101101111111111111111111111111</u>				
С	Construction					\$	2,500,600	\$	2,500,600
1	PRELIMINARIES					-	_,_,_,_	\$	164,000
1.1	Site establishment (2.5% of total construction cost)	1	Item	\$	63,000	\$	63,000	Ψ	104,000
1.2	Site management & supervision including QA	18	wks	\$	2,500		45,000		
1.3				\$		_			
	Provision for traffic	1	Item	+	56,000		56,000		
1.4	Cultural Heritage contigency	1	Item	_		\$	-	•	40.500
2	DEMOLITION							\$	12,500
2.1	Trees	25	No	\$	500	\$	12,500		
3	EARTHWORKS							\$	122,910
3.1	Stripping topsoil (100mm)	6,085	m²	\$	6	\$	36,510		
3.2	Excavation and removal	2,880	m³	\$	30	\$	86,400		
4	PAVEMENT							\$	924,625
4.1	Deep lift asphalt 195 mm	4,740	m²	\$	105	\$	497,700		
4.2	Subbase course - 250 mm 3% CTCR	5,760	m²	\$	55	\$	316,800		
4.3	Shoulder - full depth pavement	325	m²	\$	145		47,125		
4.4	Subgrade Improvement (2.5% of total construction cost)	1	Item	\$	63,000	_	63,000		
5	DRAINAGE		110111	1	00,000	Ť	55,555	\$	165,715
5.1	Subsoil drains 100mm dia - screenings	1,020	Lm	\$	30	\$	30,600	_	100,110
5.2	Subsoil drains 100mm dia - screenings Subsoil drains 100mm dia - no fines conc	325	Lm	\$	45	\$	14,625		
5.3									
	375 RCP (class 2)	547	Lm	\$	170	\$	92,990		
5.4	Side entry pits CONCRETE WORKS	11	No	\$	2,500	\$	27,500	•	040.000
6								\$	213,630
6.1	Kerb &channel	1,020	Lm	\$	50	\$	51,000		
6.2	Footpath/Shared Path (125 mm, residential, as per					١.			
	MPA)	741	Lm	\$	130	\$	96,330		
6.4	Laybacks and tactile pavers	12	No	\$	850		10,200		
6.5	Concrete island infill	375	m²	\$	85	\$	31,875		
6.5	10m concrete maintenance area	285	m²	\$	85	\$	24,225		
7	TRAFFIC SIGNAL WORKS							\$	237,500
7.1	General items	1	Item	\$	23,000	\$	23,000		
7.2	Conduits	1	Item	\$	18,000	\$	18,000		
7.3	Pedestals	1	Item	\$	45,000	\$	45,000		
7.4	Lanterns	1	Item	\$	18,000	\$	18,000		
7.5	Controller	1	Item	\$	75,000	_	75,000		
7.6	Detectors	1	Item	\$	9,500		9,500		
7.7	Cabling & connections	1	Item	\$	40,000		40,000		
7.8	Clean-up	1	Item	\$	9,000	-	9,000		
8	SIGNAL MAINTENANCE (10 YEARS) by Road		пеш	Ψ	9,000	Φ	9,000		
0	` ' '				400.000		400,000		400,000
	Authority	1	item	\$	100,000	\$	100,000	\$	100,000
9	POWER & LIGHTING							\$	205,500
9.1	Light pole (1-way) and luminous lights	8	No	\$	8,000	\$	64,000		
9.2	Light pole (2-way) and luminous lights	4	No	\$	9,000	_	36,000		
9.3	JUP lighting single	12	No	\$	4,000	\$	48,000		
9.4	JUP lighting dual	-	No	\$	5,000	\$	-		
9.5	Cabling, conduits and pits	1	Item	\$	40,000	\$	40,000		



Version 8.1

PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS

CG130898

Clyde PSP - Intersection Cost Estimate

Intersection Ref: IN-54-02

Amended design as per VicRoads and MPA comments Sep 2014

Sheet Ref: T20

	Sileet Kei.	120							
ITEM		DESCRIPTION	QUANTITY	UNIT	RATE	1	AMOUNT		SUBTOTAL
10		LANDSCAPING WORKS						\$	21,720
10.1		Topsoiling seeding	2,555	m²	\$ 8.50	\$	21,720		
11		SIGNING	1	item	\$ 7,500	\$	7,500	\$	7,500
12		LINEMARKING (Thermoplastic)	1	item	\$ 25,000	\$	25,000	\$	25,000
13		SERVICE RELOCATION						\$	300,000
13.1		Water, gas, telstra (adopted allowance)	1	Item	\$ 150,000	\$	150,000		
13.2		Overhead electrical (adopted allowance)	1	Item	\$ 150,000	\$	150,000		
14		MISCELLANEOUS						\$	-
15		PROVISIONAL SUM - DAYWORK		item		\$	-	\$	-

	TOTAL A - C		\$	2,875,690	\$ 2,875,690
D	Contingency				
	Contingency (15% of C)			15%	\$ 375,089.94

	E	PROJECT BUDGET			
Γ		Total Estimate			\$ 3,250,780

Notes:

- Due to flat topography of the area, no major cut/fill works have been included for road

Substations

1 No allowance for substations

Preliminaries

2 Based on nominal rates

Subsoil Drain

3 Assume same as kerb and channel

Side Entry Pits

4 Based on 50 m intervals

Tactile Pavers

5 Assume hazard TGSI's (no directional)

Signing

6 Nominal rate

Pavement

7 Assume deep lift ashpalt pavement

Tree Removal

8 Based on preliminary information

9

AUTHOR: Harrendran Mohan Date: 14/10/2014



PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS

CG130898

Clyde PSP - Intersection Cost Estimate

Intersection Ref: IN-54-03

Amended design as per VicRoads and MPA comments Sep 2014

DESCRIPTION

Sheet Ref: T21

DEVELOPMENT COSTS	20 August 2015 Version 8.1
t Estimate	13.550.13.1

ITEM	DESCRIPTION	QUANTITY	UNIT		RATE	1	TNUOMA	S	UBTOTAL
Α	Project and Program Management (5%)							\$	127,964
	Project Management		3.00%		0.00%	\$	76,779		
	Project scoping, planning, scheduling, monitoring,								
	reporting and commissioning								
	Management of preconstruction activities, development								
	of tender documents and management of contracts								
	Managing external interfaces, including community								
	liaison, environmental issues, traffic issues etc								
	Records management Program Administration		2.00%		0.00%	\$	51,186		
	Frogram Administration		2.00%		0.00%	Φ	31,100		
В	Design and Investigation (10%)							\$	255,929
В			0.85%		0.00%	\$	24.754	Þ	255,929
	Traffic Investigations Cadastral and Engineering Survey		1.20%		0.00%	\$	21,754 30,711		
	Geotechnical investigations Pavement Investigations		1.20%		0.00%	Φ	30,711		
	and Design		1.20%		0.00%	\$	30,711		
	Environmental Investigations				0.00%	\$	-		
	Landscape Design				0.00%	\$	_		
	Preliminary and Final Design		4.25%		0.00%	\$	108,770		
	Construction Management		2.50%		0.00%	\$	63,982		
	o chou double management	Vallatilitatilitatilitatilitatilitatilita	<u> </u>	<u> </u>		Ψ	00,002		
С	Construction					\$	2,559,287	\$	2,559,287
1	PRELIMINARIES						,,	\$	165,000
1.1	Site establishment (2.5% of total construction cost)	1	Item	\$	64.000	\$	64,000	_	.00,000
1.2	Site management & supervision including QA	18	wks	\$	2,500	\$	45,000		
1.3	Provision for traffic	1	Item	\$	56,000	\$	56,000		
1.4	Cultural Heritage contigency	1	Item	Ψ_	00,000	\$	-		
2	DEMOLITION					-		\$	7,500
2.1	Trees	15	No	\$	500	\$	7,500	<u> </u>	7,000
3	EARTHWORKS	10	140	Ψ		Ψ	7,000	\$	125.919
3.1	Stripping topsoil (100mm)	6,259	m²	\$	6	\$	37,554	<u> </u>	.20,0.0
3.2	Excavation and removal	2,946	m³	\$	30	\$	88,365		
4	PAVEMENT	2,540		Ψ		Ψ	00,000	\$	944,105
4.1	Deep lift asphalt 195 mm	4,788	m²	\$	105	\$	502,740	<u> </u>	011,100
4.2	Subbase course - 250 mm 3% CTCR	5,891	m²	\$	55	\$	324,005		
4.3	Shoulder - full depth pavement	368	m²	\$	145	\$	53,360		
4.4	Subgrade Improvement (2.5% of total construction cost)	1	Item	\$	64,000	\$	64,000		
5	DRAINAGE	1	Itom	Ψ	04,000	Ψ	04,000	\$	181,650
5.1	Subsoil drains 100mm dia - screenings	1,103	Lm	\$	30	\$	33,090	Ψ	.0.,000
5.2	Subsoil drains 100mm dia - no fines conc	368	Lm	\$	45	\$	16,560		
5.3	375 RCP (class 2)	600	Lm	\$	170	\$	102,000		
5.4	Side entry pits	12	No	\$	2,500	\$	30,000		
6	CONCRETE WORKS	12	140	Ψ	2,000	Ψ	00,000	\$	203,020
6.1	Kerb &channel	1,103	Lm	\$	50	\$	55,150	_	200,020
6.2	Footpath/Shared Path (125 mm, residential, as per	1,100	2	+*-	- 00	Ψ_	00,100		
0.2	MPA)	464	Lm	\$	130	\$	60,320		
6.4	Laybacks and tactile pavers	16	No	\$	850	\$	13,600		
6.5	Concrete island infill	500	m²	\$	85	\$	42,500		
6.5	10m concrete maintenance area	370	m²	\$	85		31,450		
7	TRAFFIC SIGNAL WORKS			1				\$	275,000
7.1	General items	1	Item	\$	27,500	\$	27,500		· · ·
7.2	Conduits	1	Item	\$	22,000	_	22,000		
7.3	Pedestals	1	Item	\$	55,000		55,000		
7.4	Lanterns	1	Item	\$	22,000	_	22,000		
7.5	Controller	1	Item	\$	82,500	_	82,500		
7.6	Detectors	1	Item	\$	11,000	_	11,000		
7.7	Cabling & connections	1	Item	\$	44,000		44,000		
7.8	Clean-up	1	Item	\$	11,000		11,000		
8	SIGNAL MAINTENANCE (10 YEARS) by Road			Ť	.,555	Ť	, 555		
	Authority	1	item	\$	100,000	\$	100,000	\$	100,000
9	POWER & LIGHTING				-,,		,	\$	193,500
9.1	Light pole (1-way) and luminous lights	8	No	\$	8,000	\$	64,000		,-30
9.2	Light pole (2-way) and luminous lights	4	No	\$	9,000	_	36,000		
9.3	JUP lighting single	4	No	\$	4,000	_	16,000		
9.4	JUP lighting dual	4	No	\$	5,000	_	20,000		
9.5	Cabling, conduits and pits	1	Item	\$	40,000	_	40,000		
9.6	Electrical connection	1	Item	\$	17,500	_	17,500		
					17,300	ıΨ	17,500		



\$ 2,943,180 **\$ 2,943,180**

20 August 2015

Version 8.1

PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS

TOTAL A - C

CG130898

Clyde PSP - Intersection Cost Estimate

Intersection Ref: IN-54-03

Amended design as per VicRoads and MPA comments Sep 2014

Sheet Ref: T21

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	AMOUNT	SUBTOTAL
10	LANDSCAPING WORKS					\$ 31,093
10.1	Topsoiling seeding	3,658	m²	\$ 8.50	\$ 31,093	
11	SIGNING	1	item	\$ 7,500	\$ 7,500	\$ 7,500
12	LINEMARKING (Thermoplastic)	1	item	\$ 25,000	\$ 25,000	\$ 25,000
13	SERVICE RELOCATION					\$ 300,000
13.1	Water, gas, telstra (adopted allowance)	1	Item	\$ 150,000	\$ 150,000	
13.2	Overhead electrical (adopted allowance)	1	Item	\$ 150,000	\$ 150,000	
14	MISCELLANEOUS					\$ -
15	PROVISIONAL SUM - DAYWORK		item		\$ -	\$ -

D Contingency	
0 (1 (40) (0)	
	\$ 383,892.99

E	PROJECT BUDGET			
	Total Estimate			\$ 3,327,073

Notes:

- Due to flat topography of the area, no major cut/fill works have been included for road

Substations

1 No allowance for substations

Preliminaries

2 Based on nominal rates

Subsoil Drain

3 Assume same as kerb and channel

Side Entry Pits

4 Based on 50 m intervals

Tactile Pavers

5 Assume hazard TGSI's (no directional)

Signing

6 Nominal rate

Pavement

7 Assume deep lift ashpalt pavement

Tree Removal

8 Based on preliminary information

9

AUTHOR: Harrendran Mohan Date: 14/10/2014



20 August 2015 Version 8.1

PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS

CG130898

Clyde PSP - Intersection Cost Estimate

Intersection Ref: IN-54-04

intersection Ner.	Amended design as per VicRoads and MPA comment	s SEP 2014						
Sheet Ref:	T22 DESCRIPTION	QUANTITY	UNIT	RATE	Δ	MOUNT	SU	JBTOTAL
A	Project and Program Management (5%)	QUANTITY	ONIT	KATE		MOONT	\$	93,548
	Project Management		3.00%	0.00%	\$	56,129		
	Project scoping, planning, scheduling, monitoring, reporting and commissioning							
	Management of preconstruction activities, development of tender documents and management of contracts							
	Managing external interfaces, including community liaison, environmental issues, traffic issues etc							
	Records management							
	Program Administration		2.00%	0.00%	\$	37,419		
В	Design and Investigation (10%)						\$	187,096
	Traffic Investigations		0.85%	0.00%	\$	15,903		
	Cadastral and Engineering Survey		1.20%	0.00%	\$	22,452		
	Geotechnical investigations Pavement Investigations and Design		1.20%	0.00%	\$	22,452		
	Environmental Investigations			0.00%	\$	-		
	Landscape Design			0.00%	\$	-		
	Preliminary and Final Design		4.25%	0.00%	\$	79,516		
	Construction Management		2.50%	0.00%	\$	46,774		

С	Construction				\$	1,870,964	\$ 1,870,964
1	PRELIMINARIES						\$ 165,500
1.1	Site establishment (2.5% of total construction cost)	1	Item	\$ 48,000	\$	48,000	
1.2	Site management & supervision including QA	15	wks	\$ 2,500	\$	37,500	
1.3	Provision for traffic	1	Item	\$ 75,000	\$	75,000	
1.4	Cultural Heritage contigency	1	Item	\$ 5,000		5,000	
2	DEMOLITION						\$ 144,696
2.1	Trees	120	No	\$ 500	\$	60,000	
2.2	Plane existing ashpalt	14,116	m²	\$ 6	\$	84,696	
3	EARTHWORKS						\$ 121,212
3.1	Stripping topsoil (100mm)	2,860	m²	\$ 6	\$	17,160	
3.2	Excavation and removal	1,351	m³	\$ 30	\$	40,530	
3.3	Stockpile reclaimed FCR	4,235	m³	\$ 15	\$	63,522	
4	PAVEMENT	,					\$ 446,005
4.1	Deep lift asphalt 195 mm	2,157	m²	\$ 105	\$	226,485	<u> </u>
4.2	Subbase course - 250 mm 3% CTCR	2,702	m²	\$ 55	\$	148,610	
4.3	Shoulder - full depth pavement	158	m²	\$ 145	\$	22,910	
4.4	Subgrade Improvement (2.5% of total construction cost)	1	Item	\$ 48.000	_	48.000	
5	DRAINAGE			-,		-,	\$ 100,460
5.1	Subsoil drains 100mm dia - screenings	545	Lm	\$ 30	\$	16,350	
5.2	Subsoil drains 100mm dia - no fines conc	158	Lm	\$ 45	\$	7,110	
5.3	375 RCP (class 2)	350	Lm	\$ 170	\$	59,500	
5.4	Side entry pits	7	No	\$ 2,500	\$	17,500	
6	CONCRETE WORKS			,		,,,,,,,	\$ 277,700
6.1	Kerb &channel	545	Lm	\$ 50	\$	27,250	
6.2							
	Footpath/Shared Path (125 mm, residential, as per MPA)	730	Lm	\$ 130	\$	94,900	
6.4	Laybacks and tactile pavers	8	No	\$ 850	\$	6,800	
6.5	Concrete island infill	1,750	m²	\$ 85	\$	148,750	
6.5	10m concrete maintenance area	-	m²	\$ 85	\$	-	
7	TRAFFIC SIGNAL WORKS						\$ 118,300
7.1	General items	1	Item	\$ 2,000	\$	2,000	
7.2	Conduits	1	Item	\$ 5,000	\$	5,000	
7.3	Signal Pedestals	8	No	\$ 4,500	\$	36,000	
7.4	Lanterns	9	No	\$ 2,200	\$	19,800	
7.5	Controller	1	Item	\$ 42,000	\$	42,000	
7.6	Detectors	1	Item	\$ 2,000	\$	2,000	
7.7	Cabling & connections	1	Item	\$ 10,000	\$	10,000	
7.8	Clean-up	1	Item	\$ 1,500	\$	1,500	
8	SIGNAL MAINTENANCE (10 YEARS) by Road Authority	1	item	\$ 65,000	\$	65,000	\$ 65,000
9	POWER & LIGHTING						\$ 110,500
9.1	Light pole (1-way) and luminous lights	5	No	\$ 8,000	\$	40,000	
9.2	Light pole (2-way) and luminous lights	3	No	\$ 9,000	\$	27,000	
9.5	Cabling, conduits and pits	1	Item	\$ 35,000	\$	35,000	
9.6	Electrical connection	1	Item	\$ 8,500	\$	8,500	



Version 8.1

PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS

CG130898

Clyde PSP - Intersection Cost Estimate

Intersection Ref: IN-54-04

Amended design as per VicRoads and MPA comments SEP 2014

Sheet Ref: T22

Sileet				_				
ITEM	DESCRIPTION	QUANTITY	UNIT	1	RATE		AMOUNT	SUBTOTAL
10	LANDSCAPING WORKS							\$ 4,091
10.1	Topsoiling seeding	481	m²	\$	8.50	\$	4,091	
11	SIGNING	1	item	\$	5,500	\$	5,500	\$ 5,500
12	LINEMARKING (Thermoplastic)	1	item	\$	12,000	\$	12,000	\$ 12,000
13	SERVICE RELOCATION							\$ 300,000
13.1	Water, gas, telstra (adopted allowance)	1	Item	\$	150,000	\$	150,000	
13.2	Overhead electrical (adopted allowance)	1	Item	\$	150,000	\$	150,000	
14	MISCELLANEOUS							\$ -
15	PROVISIONAL SUM - DAYWORK		item			\$	-	\$ -

	TOTAL A - C			\$ 2,151,609	\$ 2,151,609
D	Contingency				
	Contingency (15% of C)			15%	\$ 280,644.67
	·				
Е	PROJECT BUDGET				
	Total Estimate				\$ 2,432,254

Notes:

- Due to flat topography of the area, no major cut/fill works have been included for road

Demolition of existing structures /buildings etc within current properties not included

Substations

1 No allowance for substations

Preliminaries

2 Based on nominal rates

Subsoil Drain

3 Assume same as kerb and channel

Side Entry Pits

4 Based on 50 m intervals

Tactile Pavers

5 Assume hazard TGSI's (no directional)

Signing

6 Nominal rate

Pavement

- 7 Assume deep lift ashpalt pavement
- 9 Crushed rock reclaimed from existing pavements to be reused
- 10 Based on preliminary information
- 10 Assume all existing asphalt roads to be demolished

Option of the 21,815 m² pavement, there is 13,663 m² of the existing pavement that may be able to be retained; this is not priced

13 Assume crushed rock pavement will be removed as part of general earthworks

AUTHOR: Harrendran Mohan Date: 14/10/2014



PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS

CG130898

Clyde PSP - Intersection Cost Estimate

Intersection Ref: IN-54-05

Amended design as per VicRoads and MPA comments Sep 2014

Sheet Ref: T23

	Version 8.1
ion Cost Estimate	
N-54-05	

Sheet Ref:	T23							
ITEM	DESCRIPTION Project and Program Management (5%)	QUANTITY	UNIT	RATE		AMOUNT		UBTOTAL
Α	Project and Program Management (5%) Project Management		3.00%	0.00%	\$	79,956	\$	133,260
	Project scoping, planning, scheduling, monitoring,		3.00%	0.00%	Ψ	79,936		
	reporting and commissioning							
	- spenning and senting							
	Management of preconstruction activities, development							
	of tender documents and management of contracts							
	Managing external interfaces, including community							
	liaison, environmental issues, traffic issues etc							
	Records management Program Administration		2.00%	0.00%	\$	53,304		
			2,0070	0.0070	Ψ	- 00,001		
В	Design and Investigation (10%)						\$	266,519
	Traffic Investigations		0.85%	0.00%	\$	22,654		
	Cadastral and Engineering Survey		1.20%	0.00%	\$	31,982		
	Geotechnical investigations Pavement Investigations							
	and Design		1.20%	0.00%	\$	31,982		
	Environmental Investigations			0.00%	\$	-		
	Landscape Design		4 2E9/	0.00%	\$ \$			
	Preliminary and Final Design Construction Management		4.25% 2.50%	0.00%	\$	113,271 66,630		
	Construction Management		2.30%	0.00%	Φ	66,630		
С	Construction				\$	2,665,190	\$	2,665,190
1	PRELIMINARIES				Ť	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	\$	168,000
1.1	Site establishment (2.5% of total construction cost)	1	Item	\$ 67,000	0 \$	67,000		
1.2	Site management & supervision including QA	18	wks	\$ 2,500	0 \$	45,000		
1.3	Provision for traffic	1	Item	\$ 56,000	0 \$	56,000		
1.4	Cultural Heritage contigency	1	Item		\$	-		
2	DEMOLITION						\$	5,000
2.1	Trees	10	No	\$ 500	0 \$	5,000		
3	EARTHWORKS						\$	120,735
3.1	Stripping topsoil (100mm)	4,235	m²	<u> </u>	6 \$	· · · · · · · · · · · · · · · · · · ·		
3.2	Excavation and removal PAVEMENT	3,178	m³	\$ 30	0 \$	95,325	r.	1 004 220
4.1	Deep lift asphalt 195 mm	5,094	m²	\$ 10	5 \$	534,870	\$	1,004,320
4.2	Subbase course - 250 mm 3% CTCR	6,355	m²	\$ 55	-			
4.3	Shoulder - full depth pavement	365	m²	\$ 14	\rightarrow	· · · · · · · · · · · · · · · · · · ·		
4.4	Subgrade Improvement (2.5% of total construction cost)	1	Item	\$ 67,00	_	· · · · · · · · · · · · · · · · · · ·		
5	DRAINAGE			V 31,333	Ť	21,000	\$	200,605
5.1	Subsoil drains 100mm dia - screenings	1,261	Lm	\$ 30	0 \$	37,830		
5.2	Subsoil drains 100mm dia - no fines conc	365	Lm	\$ 4	5 \$	16,425		
5.3	375 RCP (class 2)	655	Lm	\$ 170	0 \$	111,350		
5.4	Side entry pits	14	No	\$ 2,500	0 \$	35,000		
6	CONCRETE WORKS						\$	255,125
6.1	Kerb &channel	1,261	Lm	\$ 50	0 \$	63,050		
6.2	Footpath/Shared Path (125 mm, residential, as per	040	1	f 10	, ,	100 200		
6.4	MPA) Laybacks and tactile pavers	840	Lm No	\$ 130 \$ 850	\rightarrow			
6.5	Concrete island infill	440	m ²	\$ 89	_			
6.5	10m concrete maintenance area	375	m²	\$ 8	\rightarrow			
7	TRAFFIC SIGNAL WORKS	5.5		, ,	-	3.,070	\$	275,000
7.1	General items	1	Item	\$ 27,50	0 \$	27,500		
7.2	Conduits	1	Item	\$ 22,000	-			
7.3	Pedestals	1	Item	\$ 55,000		55,000		
7.4	Lanterns	1	Item	\$ 22,000	\rightarrow			
7.5	Controller	1	Item	\$ 82,500	\rightarrow	82,500		
7.6	Detectors	1	Item	\$ 11,000	\rightarrow			
7.7	Cabling & connections	1	Item	\$ 44,000	\rightarrow			
7.8	Clean-up SIGNAL MAINTENANCE (10 YEARS) by Road	1	Item	\$ 11,000	0 \$	11,000		
8	Authority	1	item	\$ 100,000	0	100.000	\$	100,000
9	POWER & LIGHTING	1	пеш	\$ 100,000	0 \$	100,000	\$	169,500
9.1	Light pole (1-way) and luminous lights	4	No	\$ 8,000	2 0	32,000	Ψ	109,000
9.2	Light pole (1-way) and luminous lights Light pole (2-way) and luminous lights	4	No	\$ 9,000	\rightarrow	· · · · · · · · · · · · · · · · · · ·		
9.3	JUP lighting single	6	No	\$ 4,000	-			
					\rightarrow	· · · · · · · · · · · · · · · · · · ·		
9.4	JUP lighting dual	4	No	\$ 5.000) 8	20.000		
	JUP lighting dual Cabling, conduits and pits	1	No Item	\$ 5,000 \$ 40,000	\rightarrow			



Version 8.1

PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS

CG130898

Clyde PSP - Intersection Cost Estimate

Intersection Ref: IN-54-05

Amended design as per VicRoads and MPA comments Sep 2014

Sheet Ref: T23

Silecti	itel. 125							
ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	AMOUNT		SUBTOTAL	
10	LANDSCAPING WORKS						\$	34,405
10.1	Topsoiling seeding	4,048	m²	\$ 8.50	\$	34,405		
11	SIGNING	1	item	\$ 7,500	\$	7,500	\$	7,500
12	LINEMARKING (Thermoplastic)	1	item	\$ 25,000	\$	25,000	\$	25,000
13	SERVICE RELOCATION						\$	300,000
13.1	Water, gas, telstra (adopted allowance)	1	Item	\$ 150,000	\$	150,000		
13.2	Overhead electrical (adopted allowance)	1	Item	\$ 150,000	\$	150,000		
14	MISCELLANEOUS						\$	-
15	PROVISIONAL SUM - DAYWORK		item		\$	-	\$	-

	IUIALA-C			Ф	3,064,969	3	3,064,969
D	Contingency						
	Contingency (15% of C)				15%	\$	399,778.57

Е	PROJECT BUDGET			
	Total Estimate			\$ 3,464,748

Notes:

- Due to flat topography of the area, no major cut/fill works have been included for road

Substations

1 No allowance for substations

Preliminaries

2 Based on nominal rates

Subsoil Drain

3 Assume same as kerb and channel

Side Entry Pits

4 Based on 50 m intervals

Tactile Pavers

5 Assume hazard TGSI's (no directional)

Signing

6 Nominal rate

Pavement

7 Assume deep lift ashpalt pavement

Tree Removal

8 Based on preliminary information

Roads

9 Existing road conditions based on limited crushed rock roads running E-W assumed to be of no consequence to works

AUTHOR: Harrendran Mohan

Date: 14/10/2014



PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS

CG130898

Clyde PSP - Intersection Cost Es Intersection Ref: IN-54-06

Amended design as per VicRoads and MPA comments Sep 2014

Sheet Ref: T24

	Version 8.1
Estimate	

ITEM	DESCRIPTION	QUANTITY	UNIT		RATE		AMOUNT	S	UBTOTAL
Α	Project and Program Management (5%)							\$	188,100
	Project Management		3.00%		0.00%	\$	112,860		
	Project scoping, planning, scheduling, monitoring,								
	reporting and commissioning								
	Management of preconstruction activities, development								
	of tender documents and management of contracts					L			
	Managing external interfaces, including community								
	liaison, environmental issues, traffic issues etc					<u> </u>			
	Records management					-			
	Program Administration		2.00%		0.00%	\$	75,240		
_	D								
В	Design and Investigation (10%)							\$	376,199
	Traffic Investigations		0.85%		0.00%	\$	31,977		
	Cadastral and Engineering Survey		1.20%		0.00%	\$	45,144		
	Geotechnical investigations Pavement Investigations		1 200/		0.009/	•	4E 144		
	and Design		1.20%		0.00%	\$	45,144		
	Environmental Investigations					\$	-		
	Landscape Design		4.050/		0.00%	-	450.005		
	Preliminary and Final Design		4.25%		0.00%	\$	159,885		
	Construction Management		2.50%		0.00%	\$	94,050		
<u> </u>	Construction					ι	2 764 000	r	2 704 000
C 1	Construction PRELIMINARIES					\$	3,761,993	\$	3,761,993 234,000
				+	04.000		0.1.000	D	234,000
1.1	Site establishment (2.5% of total construction cost)	22	Item	\$	94,000 2,500	\$	94,000		
1.2	Site management & supervision including QA		wks	\$		\$	55,000		
1.3	Provision for traffic	1	Item	\$	80,000	\$	80,000		
1.4	Cultural Heritage contigency	1	Item	\$	5,000	\$	5,000	•	45.000
2	DEMOLITION			+	=		15.000	\$	15,000
2.1	Trees	30	No	\$	500	\$	15,000	_	100 = 10
3	EARTHWORKS			+-				\$	162,546
3.1	Stripping topsoil (100mm)	4,036	m²	\$	6	\$	24,216		
3.2	Excavation and removal	4,611	m³	\$	30	\$	138,330	_	1 01 5 5 5 5
4	PAVEMENT			+-				\$	1,615,550
4.1	Deep lift asphalt 195 mm	8,760	m²	\$	105	\$	919,800		
4.2	Subbase course - 250 mm 3% CTCR	9,222	m²	\$	55	\$	507,210		
4.3	Shoulder - full depth pavement	652	m²	\$	145	\$	94,540		
4.4	Subgrade Improvement (2.5% of total construction cost)	1	Item	\$	94,000	\$	94,000		
5	DRAINAGE			4				\$	345,360
5.1	Subsoil drains 100mm dia - screenings	1,984	Lm	\$	30	\$	59,520		
5.2	Subsoil drains 100mm dia - no fines conc	652	Lm	\$	45	\$	29,340		
5.3	375 RCP (class 2)	950	Lm	\$	170	\$	161,500		
5.4	Side entry pits	38	No	\$	2,500	\$	95,000		
6	CONCRETE WORKS							\$	403,830
6.1	Kerb &channel	1,984	Lm	\$	50	\$	99,200		
6.2	Footpath/Shared Path (125 mm, residential, as per								
	MPA)	982	Lm	\$	130	\$	127,660		
6.4	Laybacks and tactile pavers	16	No	\$	850	\$	13,600		
6.5	Concrete island infill	1,122	m²	\$	85	\$	95,370		
6.5	10m concrete maintenance area	800	m²	\$	85	\$	68,000		
7	TRAFFIC SIGNAL WORKS							\$	275,000
7.1	General items	1	Item	\$	27,500		27,500		
7.2	Conduits	1	Item	\$	22,000	_	22,000		
7.3	Pedestals	1	Item	\$	55,000	_	55,000		
7.4	Lanterns	1	Item	\$	22,000	_	22,000		
7.5	Controller	1	Item	\$	82,500	_	82,500		
7.6	Detectors	1	Item	\$	11,000	_	11,000		
7.7	Cabling & connections	1	Item	\$	44,000	_	44,000		
7.8	Clean-up	1	Item	\$	11,000	\$	11,000		
8	SIGNAL MAINTENANCE (10 YEARS) by Road								
	Authority	1	item	\$	100,000	\$	100,000	\$	100,000
9	POWER & LIGHTING							\$	225,000
9.1	Light pole (1-way) and luminous lights	8	No	\$	8,000	\$	64,000		
9.2	Light pole (2-way) and luminous lights	6	No	\$	9,000		54,000		
9.3	JUP lighting single	8	No	\$	4,000	\$	32,000		
9.4	JUP lighting dual	6	No	\$	5,000		30,000		
	0.15	4	la no	Φ.	30,000	1 0	20.000		
9.5	Cabling, conduits and pits	1	Item	\$	30,000	Ψ	30,000		



Version 8.1

PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS

CG130898

Clyde PSP - Intersection Cost Estimate

Intersection Ref: IN-54-06

Amended design as per VicRoads and MPA comments Sep 2014

Sheet Ref: T24

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	AMOUNT	SUBTOTAL	
10	LANDSCAPING WORKS					\$ 53,207	
10.1	Topsoiling seeding	6,260	m²	\$ 8.50	\$ 53,207		
11	SIGNING	1	item	\$ 7,500	\$ 7,500	\$ 7,500	
12	LINEMARKING (Thermoplastic)	1	item	\$ 25,000	\$ 25,000	\$ 25,000	
13	SERVICE RELOCATION					\$ 300,000	
13.1	Water, gas, telstra (adopted allowance)	1	Item	\$ 150,000	\$ 150,000		
13.2	Overhead electrical (adopted allowance)	1	Item	\$ 150,000	\$ 150,000		
14	MISCELLANEOUS					\$ -	
15	PROVISIONAL SUM - DAYWORK		item		\$ -	\$ -	

	TOTAL A - C		\$	4,326,292	\$ 4,326,292
D	Contingency				
	Contingency (15% of C)			15%	\$ 564,299.02

	E	PROJECT BUDGET			
Г		Total Estimate			\$ 4,890,591

Notes:

- Due to flat topography of the area, no major cut/fill works have been included for road

Substations

1 No allowance for substations

Preliminaries

2 Based on nominal rates

Subsoil Drain

3 Assume same as kerb and channel

Side Entry Pits

4 Based on 50 m intervals

Tactile Pavers

5 Assume hazard TGSI's (no directional)

Signing

6 Nominal rate

Pavement

7 Assume deep lift ashpalt pavement

Tree Removal

8 Based on preliminary information

Roads

9 Existing road conditions based on limited crushed rock roads running N-S and E-W assumed to be of no consequence to works

AUTHOR: Harrendran Mohan Date: 14/10/2014



Version 8.1

PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS

CG130898

Clyde PSP - Intersection Cost Estimate

Intersection Ref: IN-54-07

Amended design as per VicRoads and MPA comments Sep 2014

Sheet Ref: T25

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	A	MOUNT	SU	BTOTAL
Α	Project and Program Management (5%)						\$	126,030
	Project Management		3.00%	0.00%	\$	75,618		
	Project scoping, planning, scheduling, monitoring, reporting and commissioning							
	Management of preconstruction activities, development of tender documents and management of contracts							
	Managing external interfaces, including community liaison, environmental issues, traffic issues etc							
	Records management							
	Program Administration		2.00%	0.00%	\$	50,412		

В	Design and Investigation (10%)				\$ 252,060
	Traffic Investigations	0.85%	0.00%	\$ 21,425	
	Cadastral and Engineering Survey	1.20%	0.00%	\$ 30,247	
	Geotechnical investigations Pavement Investigations				
	and Design	1.20%	0.00%	\$ 30,247	
	Environmental Investigations		0.00%	\$ -	
	Landscape Design		0.00%	\$ -	
	Preliminary and Final Design	4.25%	0.00%	\$ 107,125	
	Construction Management	2.50%	0.00%	\$ 63,015	

С	Construction				\$	2,520,596	\$ 2,520,596
1	PRELIMINARIES						\$ 164,000
1.1	Site establishment (2.5% of total construction cost)	1	Item	\$ 63,000	\$	63,000	
1.2	Site management & supervision including QA	18	wks	\$ 2,500	\$	45,000	
1.3	Provision for traffic	1	Item	\$ 56,000	\$	56,000	
1.4	Cultural Heritage contigency	1	Item		\$	-	
2	DEMOLITION						\$ 10,000
2.1	Trees	20	No	\$ 500	\$	10,000	
3	EARTHWORKS						\$ 108,261
3.1	Stripping topsoil (100mm)	3,831	m²	\$ 6	\$	22,986	
3.2	Excavation and removal	2,843	m³	\$ 30	\$	85,275	
4	PAVEMENT						\$ 908,100
4.1	Deep lift asphalt 195 mm	4,615	m²	\$ 105	\$	484,575	
4.2	Subbase course - 250 mm 3% CTCR	5,685	m²	\$ 55	\$	312,675	
4.3	Shoulder - full depth pavement	330	m²	\$ 145	\$	47,850	
4.4	Subgrade Improvement (2.5% of total construction cost)	1	Item	\$ 63,000	\$	63,000	
5	DRAINAGE						\$ 184,850
5.1	Subsoil drains 100mm dia - screenings	1,070	Lm	\$ 30	\$	32,100	
5.2	Subsoil drains 100mm dia - no fines conc	330	Lm	\$ 45	\$	14,850	
5.3	375 RCP (class 2)	620	Lm	\$ 170	\$	105,400	
5.4	Side entry pits	13	No	\$ 2,500	\$	32,500	
6	CONCRETE WORKS						\$ 198,250
6.1	Kerb &channel	1,070	Lm	\$ 50	\$	53,500	
6.2	Footpath/Shared Path (125 mm, residential, as per						
	MPA)	440	Lm	\$ 130	\$	57,200	
6.4	Laybacks and tactile pavers	16	No	\$ 850	\$	13,600	
6.5	Concrete island infill	500	m²	\$ 85	\$	42,500	
6.5	10m concrete maintenance area	370	m²	\$ 85	\$	31,450	
7	TRAFFIC SIGNAL WORKS						\$ 275,000
7.1	General items	1	Item	\$ 27,500	\$	27,500	
7.2	Conduits	1	Item	\$ 22,000	\$	22,000	
7.3	Pedestals	1	Item	\$ 55,000	\$	55,000	
7.4	Lanterns	1	Item	\$ 22,000	\$	22,000	
7.5	Controller	1	Item	\$ 82,500	\$	82,500	
7.6	Detectors	1	Item	\$ 	\$	11,000	
7.7	Cabling & connections	1	Item	\$ 44,000	\$	44,000	
7.8	Clean-up	1	Item	\$ 11,000	\$	11,000	
8	SIGNAL MAINTENANCE (10 YEARS) by Road						
	Authority	1	item	\$ 100,000	\$	100,000	\$ 100,000
9	POWER & LIGHTING						\$ 211,500
9.1	Light pole (1-way) and luminous lights	8	No	\$ 8,000	\$	64,000	
9.2	Light pole (2-way) and luminous lights	6	No	\$ 9,000	_	54,000	
9.3	JUP lighting single	4	No	\$ 4,000	\$	16,000	
9.4	JUP lighting dual	4	No	\$ 5,000	\$	20,000	
9.5	Cabling, conduits and pits	1	Item	\$ 40,000	\$	40,000	
9.6	Electrical connection	1	Item	\$ 17,500	\$	17,500	



Version 8.1

3,276,775

\$

PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS

CG130898

Clyde PSP - Intersection Cost Estimate

Intersection Ref: IN-54-07

Amended design as per VicRoads and MPA comments Sep 2014

Sheet Ref: T25

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE		AMOUNT	SUBTOTAL
10	LANDSCAPING WORKS						\$ 28,135
10.1	Topsoiling seeding	3,310	m²	\$ 8.50	\$	28,135	
11	SIGNING	1	item	\$ 7,500	\$	7,500	\$ 7,500
12	LINEMARKING (Thermoplastic)	1	item	\$ 25,000	\$	25,000	\$ 25,000
13	SERVICE RELOCATION						\$ 300,000
13.1	Water, gas, telstra (adopted allowance)	1	Item	\$ 150,000	\$	150,000	
13.2	Overhead electrical (adopted allowance)	1	Item	\$ 150,000	\$	150,000	
14	MISCELLANEOUS						\$ -
15	PROVISIONAL SUM - DAYWORK		item		\$	-	\$ -

	TOTAL A - C			\$ 2,898,685	\$ 2,898,685
			ı		
D	Contingency				
	Contingency (15% of C)			15%	\$ 378,089.40
-	DPO JECT BUIDGET		1		

Notes:

- Due to flat topography of the area, no major cut/fill works have been included for road

Substations

1 No allowance for substations

Preliminaries

2 Based on nominal rates

Total Estimate

Subsoil Drain

3 Assume same as kerb and channel

Side Entry Pits

4 Based on 50 m intervals

Tactile Pavers

5 Assume hazard TGSI's (no directional)

Signing

6 Nominal rate

Pavement

7 Assume deep lift ashpalt pavement

Tree Removal

8 Based on preliminary information

Roads

9 Existing road conditions based on limited crushed rock roads running E-W assumed to be of no consequence to works

AUTHOR: Harrendran Mohan Date: 14/10/2014



20 August 2015

Version 8.1

PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS

CG130898

Clyde PSP - Intersection Cost Estimate Intersection Ref: IN-54-08

Amended design as per VicRoads and MPA comments Sep 2014

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	A	MOUNT	SU	BTOTAL
Α	Project and Program Management (5%)						\$	201,172
	Project Management		3.00%	0.00%	\$	120,703		
	Project scoping, planning, scheduling, monitoring, reporting and commissioning							
	Management of preconstruction activities, development of tender documents and management of contracts							
	Managing external interfaces, including community liaison, environmental issues, traffic issues etc							
	Records management							
	Program Administration		2.00%	0.00%	\$	80,469		

В	Design and Investigation (10%)				\$ 402,343
	Traffic Investigations	0.85%	0.00%	\$ 34,199	
	Cadastral and Engineering Survey	1.20%	0.00%	\$ 48,281	
	Geotechnical investigations Pavement Investigations				
	and Design	1.20%	0.00%	\$ 48,281	
	Environmental Investigations		0.00%	\$ -	
	Landscape Design		0.00%	\$ -	
	Preliminary and Final Design	4.25%	0.00%	\$ 170,996	
	Construction Management	2.50%	0.00%	\$ 100,586	

С	Construction					\$	4,023,433	\$	4,023,433
1	PRELIMINARIES							\$	230,500
1.1	Site establishment (2.5% of total construction cost)	1	Item	\$	103,000	\$	103,000		
1.2	Site management & supervision including QA	19	wks	\$	2,500	\$	47,500		
1.3	Provision for traffic	1	Item	\$	80,000	\$	80,000		
1.4	Cultural Heritage contigency	1	Item			\$	-		
2	DEMOLITION							\$	22,500
2.1	Trees	45	No	\$	500	\$	22,500		
3	EARTHWORKS							\$	231,105
3.1	Stripping topsoil (100mm)	11,520	m²	\$	6	\$	69,120		
3.2	Excavation and removal	5,400	m³	\$	30	\$	161,985		
4	PAVEMENT							\$	1,735,885
4.1	Deep lift asphalt 195 mm	8,899	m²	\$	105	\$	934,395		
4.2	Subbase course - 250 mm 3% CTCR	10,799	m²	\$	55	\$	593,945		
4.3	Shoulder - full depth pavement	721	m²	\$	145	\$	104,545		
4.4	Subgrade Improvement (2.5% of total construction cost)	1	Item	\$	103,000	\$	103,000		
5	DRAINAGE							\$	353,445
5.1	Subsoil drains 100mm dia - screenings	1,900	Lm	\$	30	\$	57,000		
5.2	Subsoil drains 100mm dia - no fines conc	721	Lm	\$	45	\$	32,445		
5.3	375 RCP (class 2)	1,200	Lm	\$	170	\$	204,000		
5.4	Side entry pits	24	No	\$	2,500	\$	60,000		
6	CONCRÉTE WORKS							\$	441,450
6.1	Kerb &channel	1,900	Lm	\$	50	\$	95,000		
6.2	Footpath/Shared Path (125 mm, residential, as per								
	MPA)	1,475	Lm	\$	130	\$	191,750		
6.4	Laybacks and tactile pavers	24	No	\$	850	\$	20,400		
6.5	Concrete island infill	705	m²	\$	85	\$	59,925		
6.5	10m concrete maintenace area	875	m²	\$	85	\$	74,375	•	075 000
7	TRAFFIC SIGNAL WORKS							\$	275,000
7.1	General items	1	Item	\$	27,500	\$	27,500		
7.2	Conduits	1	Item	\$	22,000	\$	22,000		
7.3	Pedestals	1	Item	\$	55,000	\$	55,000		
7.4	Lanterns	1	Item	\$	22,000	\$	22,000		
7.5	Controller	1	Item	\$		\$	82,500		
7.6	Detectors	1	Item	\$	11,000		11,000		
7.7	Cabling & connections	1	Item	\$	44,000	\$	44,000		
7.8	Clean-up	1	Item	\$	11,000	\$	11,000	_	
8	SIGNAL MAINTENANCE (10 YEARS) by Road Authority	1	item	\$	100,000	\$	100,000	\$	100,000
9	POWER & LIGHTING		item	Ф	100,000	Φ	100,000	\$	215,500
9.1	Light pole (1-way) and luminous lights	1	No	\$	8,000	\$	8,000	Ψ	213,300
9.1	Light pole (1-way) and luminous lights Light pole (2-way) and luminous lights	12	No	\$	9.000		108,000		
9.3	JUP lighting single	8	No	\$	-,	\$	32,000		
9.4	JUP lighting dual	2	No	\$	5,000	_	10,000		
9.4	Cabling, conduits and pits	1	Item	\$	40,000	\$	40,000		
9.6	Electrical connection	1	Item	\$	17,500	\$	17,500		
3.0	Liectrical connection	1	пеш	Φ	17,500	Φ	17,500		



Version 8.1

PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS

CG130898

Clyde PSP - Intersection Cost Estimate

Intersection Ref: IN-54-08

Amended design as per VicRoads and MPA comments Sep 2014

Sheet Ref: T26

	oneet Kei.	120					
ITEM		DESCRIPTION	QUANTITY	UNIT	RATE	AMOUNT	SUBTOTAL
10		LANDSCAPING WORKS					\$ 85,548
10.1		Topsoiling seeding	10,064	m²	\$ 8.50	\$ 85,548	
11		SIGNING	1	item	\$ 7,500	\$ 7,500	\$ 7,500
12		LINEMARKING (Thermoplastic)	1	item	\$ 25,000	\$ 25,000	\$ 25,000
13		SERVICE RELOCATION					\$ 300,000
13.1		Water, gas, telstra (adopted allowance)	1	Item	\$ 150,000	\$ 150,000	
13.2		Overhead electrical (adopted allowance)	1	Item	\$ 150,000	\$ 150,000	
14		MISCELLANEOUS					\$ -
15		PROVISIONAL SUM - DAYWORK		item		\$ -	\$ -

TOTAL A - C				\$	4,626,948	\$	4,626,948
Contingency							
Contingency (15% of C)					15%	\$	603,514.92
·							
PROJECT BUDGET							
Total Estimate						\$	5,230,463
	Contingency Contingency (15% of C) PROJECT BUDGET	Contingency Contingency (15% of C) PROJECT BUDGET	Contingency Contingency (15% of C) PROJECT BUDGET	Contingency Contingency (15% of C) PROJECT BUDGET	Contingency Contingency (15% of C) PROJECT BUDGET	Contingency	Contingency

Notes:

- Due to flat topography of the area, no major cut/fill works have been included for road

Substations

1 No allowance for substations

Preliminaries

2 Based on nominal rates

Subsoil Drain

3 Assume same as kerb and channel

Side Entry Pits

4 Based on 50 m intervals

Tactile Pavers

5 Assume hazard TGSI's (no directional)

Signing

6 Nominal rate

Pavement

7 Assume deep lift ashpalt pavement

Tree Removal

8 Based on preliminary information

Roads

9 Existing road conditions based on limited crushed rock roads running N-S and E-W assumed to be of no consequence to works

AUTHOR: Harrendran Mohan

Date: 14/10/2014

Clyde PSP - Intersection Cost Estimate

Intersection Ref: IN-54-09

Amended design as per VicRoads and MPA comments SEP 2014 T27

Sheet Ref:	T27						_	
ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	A	MOUNT		UBTOTAL
A	Project and Program Management (5%)						\$	116,398
	Project Management		3.00%	0.00%	\$	69,839		
	Project scoping, planning, scheduling, monitoring,							
	reporting and commissioning							
	Management of preconstruction activities, development							
	of tender documents and management of contracts							
	Managing external interfaces, including community							
	liaison, environmental issues, traffic issues etc							
	Records management							
	Program Administration		2.00%	0.00%	\$	46,559		
		vanamanananananananan v		an C ananananananan		,		
В	Design and Investigation (10%)						\$	232,796
	Traffic Investigations		0.85%	0.00%	\$	19,788		
	Cadastral and Engineering Survey		1.20%	0.00%	\$	27,936		
	Geotechnical investigations Pavement Investigations and							
	Design		1.20%	0.00%	\$	27,936		
	Environmental Investigations			0.00%	\$	-		
	Landscape Design			0.00%	\$	-		
	Preliminary and Final Design		4.25%	0.00%	\$	98,938		
	Construction Management		2.50%	0.00%	\$	58,199		
С	Construction				\$	2,327,963		2,327,963
1							\$	184,000
1.1	Site establishment (2.5% of total construction cost)	1	Item	\$ 60,000	\$	60,000		
1.2	Site management & supervision including QA	20	wks	\$ 2,500	\$	50,000		
1.3	Provision for traffic	1	Item	\$ 74,000	\$	74,000		
1.4	Cultural Heritage contigency	1	Item		\$	-		
2	DEMOLITION						\$	49,340
2.1	Trees	15	No	\$ 500	\$	7,500		
2.2	Plane existing ashpalt	2,615	m²	\$ 16	\$	41,840		
3	EARTHWORKS						\$	101,228
3.1	Stripping topsoil (100mm)	2,610	m²	\$ 6	\$	15,660		
3.2	Excavation and removal	2,460	m³	\$ 30	\$	73,800		
3.3	Stockpile reclaimed FCR	785	m³	\$ 15	\$	11,768		
4	PAVEMENT						\$	785,900
4.1	Deep lift asphalt 195 mm	3,915	m²	\$ 105	\$	411,075		
4.2	Subbase course - 250 mm 3% CTCR	4,920	m²	\$ 55	\$	270,600		
4.3	Shoulder - full depth pavement	305	m²	\$ 145	\$	44,225		
4.4	Subgrade Improvement (2.5% of total construction cost)	1	Item	\$ 60,000	\$	60,000		
5	DRAINAGE						\$	155,675
5.1	Subsoil drains 100mm dia - screenings	1,005	Lm	\$ 30	\$	30,150		
5.2	Subsoil drains 100mm dia - no fines conc	305	Lm	\$ 45	\$	13,725		
5.3	375 RCP (class 2)	540	Lm	\$ 170	\$	91,800		
5.4	Side entry pits	8	No	\$ 2,500	\$	20,000		
6	CONCRETE WORKS						\$	210,625
6.1	Kerb &channel	1,005	Lm	\$ 50	\$	50,250		
6.2	Footpath/Shared Path (125 mm, residential, as per MPA)	655	Lm	\$ 130	\$	85,150		
6.3	Laybacks and tactile pavers	10	No	\$ 850	\$	8,500		
6.4	Concrete island infill	385	m²	\$ 85		32,725		
6.5	10m concrete maintenance area end of all islands	400	m²		\$	34,000		
7	TRAFFIC SIGNAL WORKS					,	\$	237,500
7.1	General items	1	Item	\$ 23,000	\$	23,000		
7.2	Conduits	1	Item	\$ 18,000		18,000		
7.3	Pedestals	1	Item	\$ 45,000		45,000		
7.4	Lanterns	1	Item	\$ 18,000	_	18,000		
7.5	Controller	1	Item	\$ 75,000		75,000		
7.6	Detectors	1	Item	\$ 9,500	_	9,500		
7.7	Cabling & connections	1	Item	\$ 40,000		40,000		
7.8	Clean-up	1	Item	\$ 9,000		9,000		
8	SIGNAL MAINTENANCE (10 YEARS) by Road	1	item	\$ 100,000		100,000	\$	100,000
9	POWER & LIGHTING						\$	144,000
9.1	Light pole (1-way) and luminous lights	3	No	\$ 8,000	\$	24,000		
9.2	Light pole (2-way) and luminous lights	6	No	\$ 9,000	_	54,000		
9.3	JUP lighting single	4	No	\$ 4,000	_	16,000		
9.4	JUP lighting dual	1	No	\$ 5,000		5,000		
9.5	Cabling, conduits and pits	1	Item	\$ 30,000		30,000		
9.6	Electrical connection	1	Item	\$ 15,000		15,000		

349,194.49

15%

CG130898

Clyde PSP - Intersection Cost Estimate

Intersection Ref: IN-54-09

Amended design as per VicRoads and MPA comments SEP 2014

Sheet Ref: T2

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	AMOUNT	S	UBTOTAL
10	LANDSCAPING WORKS					\$	27,196
10.1	Topsoiling seeding	3,200	m²	\$ 8.50	\$ 27,196		
11	SIGNING	1	item	\$ 7,500	\$ 7,500	\$	7,500
12	LINEMARKING (Thermoplastic)	1	item	\$ 25,000	\$ 25,000	\$	25,000
13	SERVICE RELOCATION					\$	300,000
13.1	Water, gas, telstra (adopted allowance)	1	item	\$ 150,000	\$ 150,000		
13.2	Overhead electrical (adopted allowance)	1	item	\$ 150,000	\$ 150,000		
14	MISCELLANEOUS					\$	-
15	PROVISIONAL SUM - DAYWORK		item		\$ -	\$	-
	TOTAL A - C				\$ 2,677,158	\$	2,677,158
	·						
n	Contingency						

E	PROJECT BUDGET			
	Total Estimate			\$ 3,026,352

Notes:

- Due to flat topography of the area, no major cut/fill works have been included for road

Substations

1 No allowance for substations

Contingency (15% of C)

Preliminaries

2 Based on nominal rates

Subsoil Drain

3 Assume same as kerb and channel

Side Entry Pits

4 Based on 50 m intervals

Tactile Pavers

5 Assume hazard TGSI's (no directional)

Signing

6 Nominal rate

Pavement

7 Assume deep lift ashpalt pavement

8 Based on preliminary information

9 Assume all existing asphalt roads to be demolished and FCR stockpiled

10 Assume crushed rock pavement will be removed as part of general earthworks

AUTHOR: Harrendran Mohan Date: 14/10/2014



Version 8.1

PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS

CG130898

Clyde PSP - Intersection Cost Estimate

Intersection Ref: IN-54-11

Amended design as per VicRoads and MPA comments Sep 2014

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	AMOUNT		SU	BTOTAL
Α	Project and Program Management (5%)						\$	121,994
	Project Management		3.00%	0.00%	\$	73,196		
	Project scoping, planning, scheduling, monitoring, reporting and commissioning							
	Management of preconstruction activities, development of tender documents and management of contracts							
	Managing external interfaces, including community liaison, environmental issues, traffic issues etc							
	Records management							
	Program Administration		2.00%	0.00%	\$	48,798		
В	Design and Investigation (10%)						\$	243,988
<u> </u>	Traffic Investigations		0.85%	0.00%	\$	20,739	Ψ	243,300
	<u> </u>			To the second se	////			

В	Design and Investigation (10%)				\$ 243,988
	Traffic Investigations	0.85%	0.00%	\$ 20,739	
	Cadastral and Engineering Survey	1.20%	0.00%	\$ 29,279	
	Geotechnical investigations Pavement Investigations				
	and Design	1.20%	0.00%	\$ 29,279	
	Environmental Investigations		0.00%	\$ -	
	Landscape Design		0.00%	\$ -	
	Preliminary and Final Design	4.25%	0.00%	\$ 103,695	
	Construction Management	2.50%	0.00%	\$ 60,997	

С	Construction				\$	2,439,882	\$ 2,439,882
1	PRELIMINARIES						\$ 162,000
1.1	Site establishment (2.5% of total construction cost)	1	Item	\$ 61,000	\$	61,000	
1.2	Site management & supervision including QA	18	wks	\$ 2,500	\$	45,000	
1.3	Provision for traffic	1	Item	\$ 56,000	\$	56,000	
1.4	Cultural Heritage contigency	1	Item		\$	-	
2	DEMOLITION						\$ 15,000
2.1	Trees	30	No	\$ 500	\$	15,000	
3	EARTHWORKS						\$ 101,217
3.1	Stripping topsoil (100mm)	3,147	m²	\$ 6	\$	18,882	
3.2	Excavation and removal	2,745	m³	\$ 30	\$	82,335	
4	PAVEMENT						\$ 884,165
4.1	Deep lift asphalt 195 mm	4,535	m²	\$ 105	\$	476,175	
4.2	Subbase course - 250 mm 3% CTCR	5,489	m²	\$ 55	\$	301,895	
4.3	Shoulder - full depth pavement	311	m²	\$ 145	\$	45,095	
4.4	Subgrade Improvement (2.5% of total construction cost)	1	Item	\$ 61,000	\$	61,000	
5	DRAINAGE						\$ 159,025
5.1	Subsoil drains 100mm dia - screenings	954	Lm	\$ 30	\$	28,620	
5.2	Subsoil drains 100mm dia - no fines conc	311	Lm	\$ 45	\$	13,995	
5.3	375 RCP (class 2)	523	Lm	\$ 170	\$	88,910	
5.4	Side entry pits	11	No	\$ 2,500	\$	27,500	
6	CONCRETE WORKS						\$ 177,500
6.1	Kerb &channel	954	Lm	\$ 50	\$	47,700	
6.2	Footpath/Shared Path (125 mm, residential, as per						
	MPA)	410	Lm	\$ 130	\$	53,300	
6.4	Laybacks and tactile pavers	16	No	\$ 850	\$	13,600	
6.5	Concrete island infill	450	m²	\$ 85	\$	38,250	
6.5	10m concrete maintenance area	290	m²	\$ 85	\$	24,650	
7	TRAFFIC SIGNAL WORKS						\$ 275,000
7.1	General items	1	Item	\$ 27,500	\$	27,500	
7.2	Conduits	1	Item	\$ 22,000	\$	22,000	
7.3	Pedestals	1	Item	\$ 55,000	\$	55,000	
7.4	Lanterns	1	Item	\$ 22,000	\$	22,000	
7.5	Controller	1	Item	\$ 82,500	\$	82,500	
7.6	Detectors	1	Item	\$ 	\$	11,000	
7.7	Cabling & connections	1	Item	\$ 44,000	\$	44,000	
7.8	Clean-up	1	Item	\$ 11,000	\$	11,000	
8	SIGNAL MAINTENANCE (10 YEARS) by Road						
	Authority	1	item	\$ 100,000	\$	100,000	\$ 100,000
9	POWER & LIGHTING						\$ 211,500
9.1	Light pole (1-way) and luminous lights	8	No	\$ 8,000	\$	64,000	
9.2	Light pole (2-way) and luminous lights	6	No	\$ 9,000	_	54,000	
9.3	JUP lighting single	4	No	\$ 4,000	\$	16,000	
9.4	JUP lighting dual	4	No	\$ 5,000	\$	20,000	
9.5	Cabling, conduits and pits	1	Item	\$ 40,000	\$	40,000	
9.6	Electrical connection	1	Item	\$ 17,500	\$	17,500	



Version 8.1

3,171,846

\$

PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS

CG130898

Clyde PSP - Intersection Cost Estimate

Intersection Ref: IN-54-11

Amended design as per VicRoads and MPA comments Sep 2014

Sheet Ref: T28

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE AMOUNT		AMOUNT	SUBTOTAL
10	LANDSCAPING WORKS						\$ 21,975
10.1	Topsoiling seeding	2,585	m²	\$ 8.50	\$	21,975	
11	SIGNING	1	item	\$ 7,500	\$	7,500	\$ 7,500
12	LINEMARKING (Thermoplastic)	1	item	\$ 25,000	\$	25,000	\$ 25,000
13	SERVICE RELOCATION						\$ 300,000
13.1	Water, gas, telstra (adopted allowance)	1	Item	\$ 150,000	\$	150,000	
13.2	Overhead electrical (adopted allowance)	1	Item	\$ 150,000	\$	150,000	
14	MISCELLANEOUS						\$ -
15	PROVISIONAL SUM - DAYWORK		item		\$	-	\$ -

	TOTAL A - C		\$	2,805,864	\$ 2,805,864
_					
D	Contingency				
	Contingency (15% of C)			15%	\$ 365,982.24
-	DDO JECT BUIDGET				

Notes:

- Due to flat topography of the area, no major cut/fill works have been included for road

Substations

1 No allowance for substations

Preliminaries

2 Based on nominal rates

Total Estimate

Subsoil Drain

3 Assume same as kerb and channel

Side Entry Pits

4 Based on 50 m intervals

Tactile Pavers

5 Assume hazard TGSI's (no directional)

Signing

6 Nominal rate

Pavement

7 Assume deep lift ashpalt pavement

Tree Removal

8 Based on preliminary information

Roads

9 Existing road conditions based on limited crushed rock roads running N-S assumed to be of no consequence to works

AUTHOR: Harrendran Mohan Date: 14/10/2014



20 August 2015 Version 8.1

PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS

CG130898

Clyde PSP - Intersection Cost Estimate

Intersection Ref: IN-54-12

Amended design as per VicRoads and MPA comments Sep 2014

Sheet Ref:	T29							
ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	A	AMOUNT		BTOTAL
Α	Project and Program Management (5%)						\$	127,490
	Project Management		3.00%	0.00%	\$	76,494		
	Project scoping, planning, scheduling, monitoring,							
	reporting and commissioning							
	Management of preconstruction activities, development of tender documents and management of contracts							
	Managing external interfaces, including community liaison, environmental issues, traffic issues etc							
	Records management							
	Program Administration		2.00%	0.00%	\$	50,996		

В	Design and Investigation (10%)				\$ 254,980
	Traffic Investigations	0.85%	0.00%	\$ 21,673	
	Cadastral and Engineering Survey	1.20%	0.00%	\$ 30,598	
	Geotechnical investigations Pavement Investigations				
	and Design	1.20%	0.00%	\$ 30,598	
	Environmental Investigations		0.00%	\$ -	
	Landscape Design		0.00%	\$ -	
	Preliminary and Final Design	4.25%	0.00%	\$ 108,366	
	Construction Management	2.50%	0.00%	\$ 63,745	

	Construction Management		2.3076		0.0076	Ψ	3,743		
С	Construction					\$ 2,54	9,797	\$	2,549,797
1	PRELIMINARIES							\$	165,000
1.1	Site establishment (2.5% of total construction cost)	1	Item	\$	64,000	\$ 6	4,000		
1.2	Site management & supervision including QA	18	wks	\$	2,500	\$ 4	5,000		
1.3	Provision for traffic	1	Item	\$	56,000	\$ 5	6,000		
1.4	Cultural Heritage contigency	1	Item			\$	-		
2	DEMOLITION							\$	77,500
2.1	Trees	155	No	\$	500	\$ 7	7,500		
3	EARTHWORKS						,	\$	102,372
3.1	Stripping topsoil (100mm)	3,357	m²	\$	6	\$ 2	20,142		
3.2	Excavation and removal	2,741	m³	\$	30		2,230		
4	PAVEMENT	2,		+		<u> </u>	,	\$	896,120
4.1	Deep lift asphalt 195 mm	4,577	m²	\$	105	\$ 48	0,585		
4.2	Subbase course - 250 mm 3% CTCR	5,482	m²	\$	55	-	1,510		
4.3	Shoulder - full depth pavement	345	m²	\$	145		0.025		
4.4	Subgrade Improvement (2.5% of total construction cost)	1	Item	\$	64,000		4,000		
5	DRAINAGE	'	пеш	Ψ	0-7,000	Ψ	7,000	\$	187,095
5.1	Subsoil drains 100mm dia - screenings	905	Lm	\$	30	\$ 2	7,150	Ψ	107,000
5.2	Subsoil drains 100mm dia - screenings Subsoil drains 100mm dia - no fines conc	345	Lm	\$	45		5,525		
5.3				_					
	375 RCP (class 2)	526	Lm	\$	170		9,420		
5.4	Side entry pits CONCRETE WORKS	22	No	\$	2,500	\$ 5	5,000	Φ.	404 505
6						_		\$	191,525
6.1	Kerb &channel	905	Lm	\$	50	\$ 4	5,250		
6.2	Footpath/Shared Path (125 mm, residential, as per MPA)	455	Lm	\$	130	\$ 5	9,150		
6.4	Laybacks and tactile pavers	16	No	\$	850	\$ 1	3,600		
6.5	Concrete island infill	500	m²	\$	85	\$ 4	2,500		
6.5	10m concrete maintenance area	365	m²	\$	85	\$ 3	1,025		
7	TRAFFIC SIGNAL WORKS							\$	275,000
7.1	General items	1	Item	\$	27,500	\$ 2	7,500		
7.2	Conduits	1	Item	\$	22,000	\$ 2	2,000		
7.3	Pedestals	1	Item	\$	55,000		5,000		
7.4	Lanterns	1	Item	\$			2,000		
7.5	Controller	1	Item	\$	82,500		2,500		
7.6	Detectors	1	Item	\$	11,000		1,000		
7.7	Cabling & connections	1	Item	\$	44,000		4,000		
7.8	Clean-up	1	Item	\$	11,000		1,000		
8	SIGNAL MAINTENANCE (10 YEARS) by Road	' '	item	Ψ	11,000	Ψ	1,000		
	Authority	1	item	\$	100,000	\$ 10	0.000	\$	100,000
9	POWER & LIGHTING			+	,		-,	\$	193,500
9.1	Light pole (1-way) and luminous lights	8	No	\$	8,000	\$ 6	4,000		
9.2	Light pole (2-way) and luminous lights	4	No	\$	9,000		6,000		
9.3	JUP lighting single	4	No	\$	4,000		6,000		
9.4	JUP lighting dual	4	No	\$	5,000		20,000		
9.5	Cabling, conduits and pits	1	Item	\$	40,000		0,000		
				_					
9.6	Electrical connection	1	Item	\$	17,500	\$ 1	7,500		



Version 8.1

PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS

CG130898

Clyde PSP - Intersection Cost Estimate

Intersection Ref: IN-54-12

Amended design as per VicRoads and MPA comments Sep 2014

Sheet Ref: T29

	oneet Rei. 129						
ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	AMOUNT		SUBTOTAL
10	LANDSCAPING WORKS						\$ 29,185
10.1	Topsoiling seeding	3,434	m²	\$ 8.50	\$	29,185	
11	SIGNING	1	item	\$ 7,500	\$	7,500	\$ 7,500
12	LINEMARKING (Thermoplastic)	1	item	\$ 25,000	\$	25,000	\$ 25,000
13	SERVICE RELOCATION						\$ 300,000
13.1	Water, gas, telstra (adopted allowance)	1	Item	\$ 150,000	\$	150,000	
13.2	Overhead electrical (adopted allowance)	1	Item	\$ 150,000	\$	150,000	
14	MISCELLANEOUS						\$ -
15	PROVISIONAL SUM - DAYWORK		item		\$	-	\$ -

	IOTAL A - C		\$	2,932,266	\$ 2,932,266
D	Contingency				
	Contingency (15% of C)			15%	\$ 382,469.51

Е	PROJECT BUDGET			
	Total Estimate			\$ 3,314,736

Notes:

- Due to flat topography of the area, no major cut/fill works have been included for road

Substations

1 No allowance for substations

Preliminaries

2 Based on nominal rates

Subsoil Drain

3 Assume same as kerb and channel

Side Entry Pits

4 Based on 50 m intervals

Tactile Pavers

5 Assume hazard TGSI's (no directional)

Signing

6 Nominal rate

Pavement

7 Assume deep lift ashpalt pavement

Tree Removal

8 Based on preliminary information

Roads

9 Existing road conditions based on limited crushed rock roads running N-S assumed to be of no consequence to works

AUTHOR: Harrendran Mohan Date: 14/10/2014



Version 8.1

PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS

Records management
Program Administration

CG130898

Clyde PSP - Intersection Cost Estimate

Intersection Ref: IN-54-13

Amended design as per VicRoads and MPA comments Sep 2014

Sheet Ref:	T30							
ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	A	MOUNT	SU	BTOTAL
Α	Project and Program Management (5%)						\$	96,696
	Project Management		3.00%	0.00%	\$	58,017		
	Project scoping, planning, scheduling, monitoring, reporting and commissioning							
	Management of preconstruction activities, development of tender documents and management of contracts							
	Managing external interfaces, including community							

2.00%

0.00%

\$

38,678

В	Design and Investigation (10%)				\$ 193,391
	Traffic Investigations	0.85%	0.00%	\$ 16,438	
	Cadastral and Engineering Survey	1.20%	0.00%	\$ 23,207	
	Geotechnical investigations Pavement Investigations				
	and Design	1.20%	0.00%	\$ 23,207	
	Environmental Investigations		0.00%	\$ -	
	Landscape Design		0.00%	\$ -	
	Preliminary and Final Design	4.25%	0.00%	\$ 82,191	
	Construction Management	2.50%	0.00%	\$ 48,348	

	Construction Management		2.30 /6	X	0.0076	· ·	40,340		
С	Construction					\$	1,933,911	\$	1,933,911
1	PRELIMINARIES							\$	145,000
1.1	Site establishment (2.5% of total construction cost)	1	Item	\$	49,000	\$	49,000		
1.2	Site management & supervision including QA	16	wks	\$	2,500	\$	40,000		
1.3	Provision for traffic	1	Item	\$	56,000	\$	56,000		
1.4	Cultural Heritage contigency	1	Item			\$	-		
2	DEMOLITION							\$	7,500
2.1	Trees	15	No	\$	500	\$	7,500		
3	EARTHWORKS						·	\$	66,150
3.1	Stripping topsoil (100mm)	1,765	m²	\$	6	\$	10,590		
3.2	Excavation and removal	1,852	m³	\$	30	\$	55,560		
4	PAVEMENT	.,		Ť		_		\$	623,845
4.1	Deep lift asphalt 195 mm	3,036	m²	\$	105	\$	318,780		5_5,6.16
4.2	Subbase course - 250 mm 3% CTCR	3,704	m²	\$	55	\$	203,720		
4.3	Shoulder - full depth pavement	361	m²	\$	145	\$	52,345		
4.4	Subgrade Improvement (2.5% of total construction cost)	1	Item	\$	49,000	\$	49,000		
5	DRAINAGE	1	Item	Ψ	43,000	Ψ	49,000	\$	123,945
5.1	Subsoil drains 100mm dia - screenings	668	Lm	\$	30	\$	20,040	Ψ	120,040
5.2	Subsoil drains 100mm dia - screenings Subsoil drains 100mm dia - no fines conc	361	Lm	\$	45	\$			
							16,245		
5.3	375 RCP (class 2)	398	Lm	\$	170	\$	67,660		
5.4	Side entry pits	8	No	\$	2,500	\$	20,000	Φ.	400.000
6	CONCRETE WORKS					_		\$	139,600
6.1	Kerb &channel	668	Lm	\$	50	\$	33,400		
6.2	Footpath/Shared Path (125 mm, residential, as per MPA)	320	Lm	\$	130	\$	41,600		
6.4	Laybacks and tactile pavers	9	No	\$	850	\$	7,650		
6.5	Concrete island infill	400	m²	\$	85	\$	34,000		
6.5	10m concrete maintenance area	270	m²	\$	85	\$	22,950		
7	TRAFFIC SIGNAL WORKS						·	\$	237,500
7.1	General items	1	Item	\$	23,000	\$	23,000		
7.2	Conduits	1	Item	\$	18,000	\$	18,000		
7.3	Pedestals	1	Item	\$	45,000	\$	45,000		
7.4	Lanterns	1	Item	\$		\$	18,000		
7.5	Controller	1	Item	\$	75.000	\$	75,000		
7.6	Detectors	1	Item	\$	9,500	\$	9,500		
7.7	Cabling & connections	1	Item	\$	40,000	\$	40,000		
7.8	Clean-up	1	Item	\$	9,000	\$	9,000		
8	SIGNAL MAINTENANCE (10 YEARS) by Road		Item	Ψ	3,000	Ψ	3,000		
·	Authority	1	item	\$	100,000	\$	100,000	\$	100.000
9	POWER & LIGHTING				,		,	\$	143,000
9.1	Light pole (1-way) and luminous lights	8	No	\$	8,000	\$	64,000		
9.2	Light pole (2-way) and luminous lights	1	No	\$	9,000	\$	9,000		
9.3	JUP lighting single	4	No	\$	4,000	\$	16,000		
9.4	JUP lighting dual	2	No	\$	5,000	\$	10,000		
9.5	Cabling, conduits and pits	1	Item	\$	30,000	\$	30,000		
9.6	Electrical connection	1	Item	\$	14,000	\$	14,000		



Version 8.1

PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS

CG130898

Clyde PSP - Intersection Cost Estimate

Intersection Ref: IN-54-13

Amended design as per VicRoads and MPA comments Sep 2014

Sheet Ref: T30

Sneet							
ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	AMOUNT		SUBTOTAL
10	LANDSCAPING WORKS						\$ 24,871
10.1	Topsoiling seeding	2,926	m²	\$ 8.50	\$	24,871	
11	SIGNING	1	item	\$ 7,500	\$	7,500	\$ 7,500
12	LINEMARKING (Thermoplastic)	1	item	\$ 15,000	\$	15,000	\$ 15,000
13	SERVICE RELOCATION						\$ 300,000
13.1	Water, gas, telstra (adopted allowance)	1	Item	\$ 150,000	\$	150,000	
13.2	Overhead electrical (adopted allowance)	1	Item	\$ 150,000	\$	150,000	
14	MISCELLANEOUS						\$ -
15	PROVISIONAL SUM - DAYWORK		item		\$	-	\$ -

\$ 290,086.71
\$

E	PROJECT BUDGET			
	Total Estimate			\$ 2,514,085

Notes:

- Due to flat topography of the area, no major cut/fill works have been included for road

Substations

1 No allowance for substations

Preliminaries

2 Based on nominal rates

Subsoil Drain

3 Assume same as kerb and channel

Side Entry Pits

4 Based on 50 m intervals

Tactile Pavers

5 Assume hazard TGSI's (no directional)

Signing

6 Nominal rate

Pavement

7 Assume deep lift ashpalt pavement

Tree Removal

8 Based on preliminary information

Roads

9 Existing road conditions based on limited crushed rock roads running N-S assumed to be of no consequence to works

AUTHOR: Harrendran Mohan Date: 14/10/2014

REVIEWER: Rob Henry

Date: 14/10/2014



40,766

20 August 2015

Version 8.1

PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS

Records management Program Administration

CG130898

ITEM

Clyde PSP - Intersection Cost Estimate

Intersection Ref: IN-54-14

liaison, environmental issues, traffic issues etc

Sheet Ref:

Amended design as per VicRoads and MPA comme	ents Sep 2014						
T31							
DESCRIPTION	QUANTITY	UNIT	RATE	A	MOUNT	S	UBTOTAL
Project and Program Management (5%)						\$	101,914
Project Management		3.00%	0.00%	\$	61,148		
Project scoping, planning, scheduling, monitoring,							
reporting and commissioning							
Management of preconstruction activities, development							
of tender documents and management of contracts							
Managing external interfaces, including community							
l.,				//4			

2.00%

0.00%

\$

В	Design and Investigation (10%)				\$ 203,828
	Traffic Investigations	0.85%	0.00%	\$ 17,325	
	Cadastral and Engineering Survey	1.20%	0.00%	\$ 24,459	
	Geotechnical investigations Pavement Investigations				
	and Design	1.20%	0.00%	\$ 24,459	
	Environmental Investigations		0.00%	\$ -	
	Landscape Design		0.00%	\$ -	
	Preliminary and Final Design	4.25%	0.00%	\$ 86,627	
	Construction Management	2.50%	0.00%	\$ 50,957	

С	Construction					\$	2,038,276	\$	2,038,276
1	PRELIMINARIES					Ť	, ,	\$	148,000
1.1	Site establishment (2.5% of total construction cost)	1	Item	\$	52,000	\$	52,000		,
1.2	Site management & supervision including QA	16	wks	\$	2,500	\$	40,000		
1.3	Provision for traffic	1	Item	\$	56,000	\$	56,000		
1.4	Cultural Heritage contigency	1	Item		,	\$	-		
2	DEMOLITION	İ						\$	7,500
2.1	Trees	15	No	\$	500	\$	7,500		
3	EARTHWORKS						·	\$	83,205
3.1	Stripping topsoil (100mm)	2,535	m²	\$	6	\$	15,210		
3.2	Excavation and removal	2,267	m³	\$	30	\$	67,995		
4	PAVEMENT	ĺ					•	\$	691,170
4.1	Deep lift asphalt 195 mm	3,503	m²	\$	105	\$	367,815		
4.2	Subbase course - 250 mm 3% CTCR	4,533	m²	\$	55	\$	249,315		
4.3	Shoulder - full depth pavement	152	m²	\$	145	\$	22,040		
4.4	Subgrade Improvement (2.5% of total construction cost)	1	Item	\$	52,000	\$	52,000		
5	DRAINAGE						·	\$	147,740
5.1	Subsoil drains 100mm dia - screenings	1,030	Lm	\$	30	\$	30,900		
5.2	Subsoil drains 100mm dia - no fines conc	152	Lm	\$	45	\$	6,840		
5.3	375 RCP (class 2)	500	Lm	\$	170	\$	85,000		
5.4	Side entry pits	10	No	\$	2,500	\$	25,000		
6	CONCRÉTE WORKS	İ						\$	150,800
6.1	Kerb &channel	1,030	Lm	\$	50	\$	51,500		
6.2	Footpath/Shared Path (125 mm, residential, as per MPA)	450	Lm	\$	130	\$	58,500		
6.3	Laybacks and tactile pavers	12	No	\$	850	\$	10,200		
6.4	Concrete island infill	135	m²	\$	85	\$	11,475		
6.5	10m concrete maintenance area end of all islands	225	m²	\$	85	\$	19,125		
7	TRAFFIC SIGNAL WORKS	ZZO	***	Ψ		T.	10,120	\$	207,000
7.1	General items	1	Item	\$	23,000	\$	23,000	_	
7.2	Conduits	1	Item	\$		\$	18,000		
7.3	Pedestals	1	Item	\$	45,000	_	45,000		
7.4	Lanterns	1	Item	\$	18,000	\$	18,000		
7.5	Controller	1	Item	\$	75,000	\$	75,000		
7.6	Detectors	1	Item	\$	9,500	\$	9,500		
7.7	Cabling & connections	1	Item	\$	9.500	\$	9,500		
7.8	Clean-up	1	Item	\$	9.000	\$	9,000		
8	SIGNAL MAINTENANCE (10 YEARS) by Road			+	0,000	Ť	0,000		
	Authority	1	item	\$	100,000	\$	100,000	\$	100,000
9	POWER & LIGHTING			<u> </u>	,	Ť		\$	158,500
9.1	Light pole (1-way) and luminous lights	6	No	\$	8,000	\$	48,000		, , , , , , , , , , , , , , , , , , , ,
9.2	Light pole (2-way) and luminous lights	4	No	\$	9,000	\$	36,000		
9.3	JUP lighting single	3	No	\$	4,000	\$	12,000		
9.4	JUP lighting dual	1	No	\$		\$	5,000		
9.5	Cabling, conduits and pits	1	Item	\$	40,000	\$	40,000		
9.6	Electrical connection	1	Item	\$	17,500	\$	17,500		
· •		<u> </u>		ΙΨ	,000	_ Ψ	,500		



Version 8.1

PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS

CG130898

Clyde PSP - Intersection Cost Estimate

Intersection Ref: IN-54-14

Amended design as per VicRoads and MPA comments Sep 2014

Sheet Ref: T31

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	AMOUNT		SUBTOTAL
10	LANDSCAPING WORKS						\$ 21,861
10.1	Topsoiling seeding	2,572	m²	\$ 8.50	\$	21,861	
11	SIGNING	1	item	\$ 7,500	\$	7,500	\$ 7,500
12	LINEMARKING (Thermoplastic)	1	item	\$ 15,000	\$	15,000	\$ 15,000
13	SERVICE RELOCATION						\$ 300,000
13.1	Water, gas, telstra (adopted allowance)	1	Item	\$ 150,000	\$	150,000	
13.2	Overhead electrical (adopted allowance)	1	Item	\$ 150,000	\$	150,000	
14	MISCELLANEOUS						\$ -
15	PROVISIONAL SUM - DAYWORK		item		\$	-	\$ -

	TOTAL A - C		\$ 2	,344,018	\$ 2,344,018
D	Contingency				
	Contingency (15% of C)		1	5%	\$ 305,741.42

I	E	PROJECT BUDGET			
		Total Estimate			\$ 2,649,759

Notes:

- Due to flat topography of the area, no major cut/fill works have been included for road

Substations

1 No allowance for substations

Preliminaries

2 Based on nominal rates

Subsoil Drain

3 Assume same as kerb and channel

Side Entry Pits

4 Based on 50 m intervals

Tactile Pavers

5 Assume hazard TGSI's (no directional)

Signing

6 Nominal rate

Pavement

7 Assume deep lift ashpalt pavement

Tree Removal

8 Based on preliminary information

Roads

9 Existing road conditions based on limited crushed rock roads running N-S assumed to be of no consequence to works

AUTHOR: Harrendran Mohan Date: 14/10/2014



20 August 2015 Version 8.1

PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS

CG130898 Clyde PSP - Intersection Cost Estimate

	Amended design as per VicRoads and MPA comment	c SED 201/					
Sheet Ref:	T32	3 JL1 2014					
ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	AMOUNT	Sl	JBTOTAL
Α	Project and Program Management (5%)					\$	253,662
	Project Management		3.00%	0.00%	\$ 152,197		
	Project scoping, planning, scheduling, monitoring, reporting and commissioning						
	Management of preconstruction activities, development of tender documents and management of contracts						
	Managing external interfaces, including community liaison, environmental issues, traffic issues etc						
	Records management						
	Program Administration		2.00%	0.00%	\$ 101,465		
В	Design and Investigation (10%)					\$	507,323
	Traffic Investigations		0.85%	0.00%	\$ 43,122		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	Cadastral and Engineering Survey		1.20%	0.00%	\$ 60,879		
	Geotechnical investigations Pavement Investigations and Design		1.20%	0.00%	\$ 60,879		
	Environmental Investigations			0.00%	\$ -		
	Landscape Design			0.00%	\$ -		
	Preliminary and Final Design		4.25%	0.00%	\$ 215,612		
	Construction Management		2.50%	0.00%	\$ 126,831		
	0				5.070.000		5 070 000

С	Construction					\$	5,073,232	\$ 5,073,232
1	PRELIMINARIES							\$ 299,000
1.1	Site establishment (2.5% of total construction cost)	1	Item	\$	129,000	\$	129,000	
1.2	Site management & supervision including QA	24	wks	\$	2,500	\$	60,000	
1.3	Provision for traffic	1	Item	\$	105,000	\$	105,000	
1.4	Cultural Heritage contigency	1	Item	\$	5,000		5,000	
2	DEMOLITION							\$ 101,828
2.1	Trees	25	No	\$	500	\$	12,500	
2.2	Plane existing ashpalt	7,444	m²	\$	12	\$	89,328	
3	EARTHWORKS	·						\$ 371,931
3.1	Stripping topsoil (100mm)	7,531	m²	\$	6	\$	45,186	
3.2	Excavation and removal	7,170	m³	\$	30	\$	215,085	
3.3	Stockpile reclaimed FCR	7,444	m³	\$	15	\$	111,660	
4	PAVEMENT	,						\$ 2,263,460
4.1	Deep lift asphalt 195 mm	11,939	m²	\$	105	\$	1,253,595	
4.2	Subbase course - 250 mm 3% CTCR	14,339	m²	\$	55	\$	788,645	
4.3	Shoulder - full depth pavement	636	m²	\$	145	\$	92,220	
4.4	Subgrade Improvement (2.5% of total construction cost)	1	Item	\$	129.000	\$	129.000	
5	DRAINAGE				-,	Ť	-,,	\$ 505,620
5.1	Subsoil drains 100mm dia - screenings	2,400	Lm	\$	30	\$	72,000	
5.2	Subsoil drains 100mm dia - no fines conc	636	Lm	\$	45	\$	28,620	
5.3	375 RCP (class 2)	1,500	Lm	\$	170	\$	255,000	
5.4	Side entry pits	60	No	\$	2,500	\$	150,000	
6	CONCRETE WORKS							\$ 435,905
6.1	Kerb &channel	2,400	Lm	\$	50	\$	120,000	
6.2	Footpath/Shared Path (125 mm, residential, as per MPA)	1,310	Lm	\$	130	-	170,300	
6.4	Laybacks and tactile pavers	24	No	\$	850	\$	20,400	
6.5	Concrete island infill	798	m²	\$	85		67,830	
6.5	10m concrete maintenance area	675	m²	\$	85	\$	57,375	
7	TRAFFIC SIGNAL WORKS							\$ 275,000
7.1	General items	1	Item	\$	27,500		27,500	
7.2	Conduits	1	Item	\$	22,000		22,000	
7.3	Pedestals	1	Item	\$	55,000	\$	55,000	
7.4	Lanterns	1	Item	\$	22,000		22,000	
7.5	Controller	1	Item	\$	82,500		82,500	
7.6	Detectors	1	Item	\$	11,000		11,000	
7.7	Cabling & connections	1	Item	\$	44,000	-	44,000	
7.8	Clean-up	1	Item	\$	11,000	\$	11,000	
8	SIGNAL MAINTENANCE (10 YEARS) by Road Authority	1	item	\$	100,000	\$	100,000	\$ 100,000
9	POWER & LIGHTING			+	,	Ť	,	\$ 319,000
9.1	Light pole (1-way) and luminous lights	20	No	\$	8,000	\$	160,000	
9.2	Light pole (2-way) and luminous lights	4	No	\$	9,000	\$	36,000	
9.3	JUP lighting single	12	No	\$	4,000		48,000	
9.4	JUP lighting dual	4	No	\$	5,000		20,000	
9.5	Cabling, conduits and pits	1	Item	\$	44,000		44,000	
	Electrical connection	1		\$	11,000	-	11,000	



Version 8.1

6,595,201

PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS

CG130898

Clyde PSP - Intersection Cost Estimate

Intersection Ref: IN-54-15

Amended design as per VicRoads and MPA comments SEP 2014

Sheet Ref: T32

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	,	AMOUNT		SUBTOTAL
10	LANDSCAPING WORKS						\$	68,988
10.1	Topsoiling seeding	8,116	m²	\$ 8.50	\$	68,988		
11	SIGNING	1	item	\$ 7,500	\$	7,500	\$	7,500
12	LINEMARKING (Thermoplastic)	1	item	\$ 25,000	\$	25,000	\$	25,000
13	SERVICE RELOCATION						\$	300,000
13.1	Water, gas, telstra (adopted allowance)	1	Item	\$ 150,000	\$	150,000		
13.2	Overhead electrical (adopted allowance)	1	Item	\$ 150,000	\$	150,000		
14	MISCELLANEOUS						\$	-
15	PROVISIONAL SUM - DAYWORK		item		\$	-	\$	-

	TOTAL A - C			\$ 5,834,216	\$ 5,834,216
D	Contingency				
	Contingency (15% of C)			15%	\$ 760,984.76
Е	PROJECT BUDGET				

Notes:

- Due to flat topography of the area, no major cut/fill works have been included for road

Substations

1 No allowance for substations

Preliminaries

Total Estimate

Subsoil Drain

2 Based on nominal rates

Side Entry Pits

 ${f 3}$ Assume same as kerb and channel

4 Based on 50 m intervals

Tactile Pavers

5 Assume hazard TGSI's (no directional)

Signing

6 Nominal rate

Pavement

7 Assume deep lift ashpalt pavement

8 Based on preliminary information

- 9 Assume all existing asphalt roads to be demolished and FCR stockpiled
- 10 Assume crushed rock pavement will be removed as part of general earthworks

13

AUTHOR: Harrendran Mohan Date: 14/10/2014



Version 8.1

PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS

CG130898

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Clyde PSP - Intersection Cost Estimate

Intersection Ref: IN-54-17

	Amended design as per VicRoads and MPA comment	s SEP 2014						
Sheet Ref:	Т33							
ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	A	MOUNT	SU	BTOTAL
Α	Project and Program Management (5%)						\$	113,129
	Project Management		3.00%	0.00%	\$	67,878		
	Project scoping, planning, scheduling, monitoring, reporting and commissioning							
	Management of preconstruction activities, development of tender documents and management of contracts							
	Managing external interfaces, including community liaison, environmental issues, traffic issues etc							
	Records management							
	Program Administration		2.00%	0.00%	\$	45,252		
В	Design and Investigation (10%)						\$	226,259
	Traffic Investigations		0.85%	0.00%	\$	19,232		
	Cadastral and Engineering Survey		1.20%	0.00%	\$	27,151		
	Geotechnical investigations Pavement Investigations and		4.000/	0.000		07.454		

	I raffic investigations		0.85%	0.00%	\$	19,232	
	Cadastral and Engineering Survey		1.20%	0.00%	\$	27,151	
	Geotechnical investigations Pavement Investigations and						
	Design		1.20%	0.00%	\$	27,151	
	Environmental Investigations			0.00%	\$	-	
	Landscape Design			0.00%	\$	-	
	Preliminary and Final Design		4.25%	0.00%	\$	96,160	
	Construction Management		2.50%	0.00%	\$	56,565	
С	Construction				\$	2,262,586	\$ 2,262,586
1	PRELIMINARIES						\$ 182,000
1.1	Site establishment (2.5% of total construction cost)	1	Item	\$ 57,000	\$	57,000	
1.2	Site management & supervision including QA	18	wks	\$ 2,500	\$	45,000	
1.3	Provision for traffic	1	Item	\$ 80,000	\$	80,000	
1.4	Cultural Heritage contigency	1	Item		\$	-	
2	DEMOLITION						\$ 40,360
2.1	Trees	10	No	\$ 500	\$	5,000	
2.2	Plane existing ashpalt	2,210	m²	\$ 16	\$	35,360	
3	EARTHWORKS						\$ 112,485
3.1	Stripping topsoil (100mm)	2,435	m²	\$ 6	\$	14,610	
3.2	Excavation and removal	2,158	m³	\$ 30	\$	64,725	
3.3	Stockpile reclaimed FCR	2,210	m³	\$ 15	\$	33,150	
					_		

-								T	,
3.1	Stripping topsoil (100mm)	2,435	m²	\$	6	\$	14,610		
3.2	Excavation and removal	2,158	m³	\$	30	\$	64,725		
3.3	Stockpile reclaimed FCR	2,210	m³	\$	15	\$	33,150		
4	PAVEMENT							\$	707,575
4.1	Deep lift asphalt 195 mm	3,480	m²	\$	105	\$	365,400		
4.2	Subbase course - 250 mm 3% CTCR	4,315	m²	\$	55	\$	237,325		
4.3	Shoulder - full depth pavement	330	m²	\$	145	\$	47,850		
4.4	Subgrade Improvement (2.5% of total construction cost)	1	Item	\$	57,000	\$	57,000		
5	DRAINAGE							\$	143,950
5.1	Subsoil drains 100mm dia - screenings	835	Lm	\$	30	\$	25,050		
5.2	Subsoil drains 100mm dia - no fines conc	330	Lm	\$	45	\$	14,850		
5.3	375 RCP (class 2)	465	Lm	\$	170	\$	79,050		
5.4	Side entry pits	10	No	\$	2,500	\$	25,000		
6	CONCRETE WORKS							\$	196,580
6.1	Kerb &channel	835	Lm	\$	50	\$	41,750		
6.2	Footpoth/Chaved Dath (425 man recidential or nor MDA)	604	Lan	_	420	•	00 520		
6.4	Footpath/Shared Path (125 mm, residential, as per MPA)	681	Lm No	\$	130	-	88,530		
6.5	Laybacks and tactile pavers Concrete island infill	8	m ²	\$	850	-	6,800		
6.5	10m concrete maintenance area	380 320	m ²	\$	85 85		32,300 27,200		
7	TRAFFIC SIGNAL WORKS	320	111~	Φ	- 65	Φ	27,200	\$	237,500
7.1		1	ltom	•	22.000	•	22.000	Ф	237,500
7.1	General items Conduits	1	Item Item	\$	23,000 18,000		23,000 18,000		
7.3	Pedestals	1	Item	\$	45,000	_	45,000		
7.4	Lanterns	1	Item	\$	18,000		18,000		
7.5	Controller	1	Item	\$	75,000	-	75,000		
7.6	Detectors	1	Item	\$	9,500	-	9,500		
7.7	Cabling & connections	1	Item	\$	40,000		40,000		
7.8	Clean-up	1	Item	\$	9,000	-	9,000		
8	Clean-up	1	item	1	9,000	Φ	9,000		
0	SIGNAL MAINTENANCE (10 YEARS) by Road Authority	1	item	\$	100,000	\$	100,000	\$	100,000
9	POWER & LIGHTING							\$	187,500
9.1	Light pole (1-way) and luminous lights	9	No	\$	8,000	\$	72,000		
9.2	Light pole (2-way) and luminous lights	3	No	\$	9,000	\$	27,000		
0.0		-		<u> </u>	4.000		40.000		

4

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1

No

No

Item

Item

\$

4,000 \$ 5,000 \$

40,000 \$

17,500 \$

16,000

15,000

40,000

17,500

JUP lighting single

Cabling, conduits and pits
Electrical connection

JUP lighting dual



Version 8.1

PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS

CG130898

Clyde PSP - Intersection Cost Estimate

Intersection Ref: IN-54-17

Amended design as per VicRoads and MPA comments SEP 2014

Sheet Ref: T33

	neet Ref: 133								
ITEM	DESCRIPTION	QUANTITY	UNIT	1	RATE	AMOUNT			SUBTOTAL
10	LANDSCAPING WORKS							\$	22,136
10.1	Topsoiling seeding	2,604	m²	\$	8.50	\$	22,136		
11	SIGNING	1	item	\$	7,500	\$	7,500	\$	7,500
12	LINEMARKING (Thermoplastic)	1	item	\$	25,000	\$	25,000	\$	25,000
13	SERVICE RELOCATION							\$	300,000
13.1	Water, gas, telstra (adopted allowance)	1	Item	\$	150,000	\$	150,000		
13.2	Overhead electrical (adopted allowance)	1	Item	\$	150,000	\$	150,000		
14	MISCELLANEOUS							\$	-
15	PROVISIONAL SUM - DAYWORK		item			\$	-	\$	-

	TOTAL A - C			\$ 2,601,974	\$ 2,601,974
D	Contingency				
	Contingency (15% of C)			15%	\$ 339,387.92
E	PROJECT BUDGET				
	Total Estimate				\$ 2,941,362

Notes:

- Due to flat topography of the area, no major cut/fill works have been included for road

Substations

1 No allowance for substations

Preliminaries

2 Based on nominal rates

Subsoil Drain

3 Assume same as kerb and channel

Side Entry Pits

4 Based on 50 m intervals

Tactile Pavers

5 Assume hazard TGSI's (no directional)

Signing

6 Nominal rate

Pavement

7 Assume deep lift ashpalt pavement

8 Based on preliminary information

- 9 Assume all existing asphalt roads to be demolished and FCR stockpiled
- 10 Assume crushed rock pavement will be removed as part of general earthworks

13

AUTHOR: Harrendran Mohan Date: 14/10/2014



Version 8.1

PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS

CG130898

Clyde PSP - Intersection Cost Estimate

Intersection Ref: IN-54-18

Amended design as per VicRoads and MPA comments SEP 2014 T34

Sheet Ref: T34

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	A	MOUNT	SU	BTOTAL
Α	Project and Program Management (5%)						\$	189,173
	Project Management		3.00%	0.00%	\$	113,504		
	Project scoping, planning, scheduling, monitoring,							
	reporting and commissioning							
	Management of preconstruction activities, development of tender documents and management of contracts							
	Managing external interfaces, including community							
	liaison, environmental issues, traffic issues etc							
	Records management							
	Program Administration		2.00%	0.00%	\$	75,669		

В	Design and Investigation (10%)				\$ 378,346
	Traffic Investigations	0.85%	0.00%	\$ 32,159	
	Cadastral and Engineering Survey	1.20%	0.00%	\$ 45,402	
	Geotechnical investigations Pavement Investigations and				
	Design	1.20%	0.00%	\$ 45,402	
	Environmental Investigations		0.00%	\$ -	
	Landscape Design		0.00%	\$ -	
	Preliminary and Final Design	4.25%	0.00%	\$ 160,797	
	Construction Management	2.50%	0.00%	\$ 94,587	

С	Construction					\$	3,783,461	\$	3,783,461
1	PRELIMINARIES							\$	230,000
1.1	Site establishment (2.5% of total construction cost)	1	Item	\$	95,000	\$	95,000		
1.2	Site management & supervision including QA	20	wks	\$	2,500	\$	50,000		
1.3	Provision for traffic	1	Item	\$	85,000	\$	85,000		
1.4	Cultural Heritage contigency	1	Item			\$			
2	DEMOLITION							\$	52,300
2.1	Trees	15	No	\$	500	\$	7.500		
2.2	Plane existing ashpalt	2,800	m²	\$	16	\$	44,800		
3	EARTHWORKS	,				İ	,	\$	235,050
3.1	Stripping topsoil (100mm)	7,575	m²	\$	6	\$	45,450		<u>, , , , , , , , , , , , , , , , , , , </u>
3.2	Excavation and removal	4,920	m³	\$	30	\$	147,600		
3.3	Stockpile reclaimed FCR	2,800	m³	\$	15	-	42.000		
4	PAVEMENT	2,000		+		-	.2,000	\$	1,575,825
4.1	Deep lift asphalt 195 mm	8,210	m²	\$	105	\$	862,050	<u> </u>	1,010,020
4.2	Subbase course - 250 mm 3% CTCR	9,840	m²	\$	55	\$	541,200		
4.3	Shoulder - full depth pavement	535	m²	\$	145	\$	77,575		
4.4	Subgrade Improvement (2.5% of total construction cost)	1	Item	\$	95,000		95,000		
5	DRAINAGE	1	item	Ψ	93,000	Ψ	93,000	\$	303,525
5.1	Subsoil drains 100mm dia - screenings	1,630	Lm	\$	30	\$	48.900	Ψ	000,020
5.2	Subsoil drains 100mm dia - no fines conc		Lm	\$	45	\$	-,		
5.3	375 RCP (class 2)	535 915	Lm	\$	170	\$	24,075 155,550		
5.4		30		\$	2,500				
6	Side entry pits CONCRETE WORKS	30	No	1.2	2,500	Ф	75,000	\$	371,325
6.1	Kerb &channel	1,630	Lm	\$	50	\$	81,500	Ф	37 1,323
6.2						-			
	Footpath/Shared Path (125 mm, residential, as per MPA)	1,095	Lm	\$	130	\$	142,350		
6.3	Laybacks and tactile pavers	20	No	\$	850	\$	17,000		
6.4	Concrete island infill	735	m²	\$	85	\$	62,475		
	10m concrete maintenance area end of all islands TRAFFIC SIGNAL WORKS	800	m²	\$	85	\$	68,000	•	075 000
7				-				\$	275,000
7.1	General items	1	Item	\$	27,500		27,500		
7.2	Conduits	1	Item	\$	22,000		22,000		
7.3	Pedestals	1	Item	\$	55,000	-	55,000		
7.4	Lanterns	1	Item	\$	22,000		22,000		
7.5	Controller	1	Item	\$	82,500		82,500		
7.6	Detectors	1	Item	\$	11,000		11,000		
7.7	Cabling & connections	1	Item	\$	44,000		44,000		
7.8	Clean-up	1	Item	\$	11,000		11,000		100.000
8	SIGNAL MAINTENANCE (10 YEARS) by Road Authority	1	item	\$	100,000	\$	100,000		100,000
9	POWER & LIGHTING	_		-				\$	245,000
9.1	Light pole (1-way) and luminous lights	5	No	\$	8,000	-	40,000		
9.2	Light pole (2-way) and luminous lights	12	No	\$	9,000	-	108,000		
9.3	JUP lighting single	8	No	\$	4,000		32,000		
9.4	JUP lighting dual	4	No	\$	5,000		20,000		
9.5	Cabling, conduits and pits	1	Item	\$	30,000		30,000		
9.6	Electrical connection	1	Item	\$	15,000	\$	15,000		



Version 8.1

PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS

CG130898

Clyde PSP - Intersection Cost Estimate

Intersection Ref: IN-54-18

Amended design as per VicRoads and MPA comments SEP 2014

Sheet Ref: T34

ITEM	DESCRIPTION	QUANTITY	UNIT	\top	RATE	1	AMOUNT	SUBTOTAL
10	LANDSCAPING WORKS							\$ 62,936
10.1	Topsoiling seeding	7,404	m²	\$	8.50	\$	62,936	
11	SIGNING	1	item	\$	7,500	\$	7,500	\$ 7,500
12	LINEMARKING (Thermoplastic)	1	item	\$	25,000	\$	25,000	\$ 25,000
13	SERVICE RELOCATION							\$ 300,000
13.1	Water, gas, telstra (adopted allowance)	1	Item	\$	150,000	\$	150,000	
13.2	Overhead electrical (adopted allowance)	1	Item	\$	150,000	\$	150,000	
14	MISCELLANEOUS							\$ -
15	PROVISIONAL SUM - DAYWORK		item			\$	-	\$ -

	TOTAL A - C		\$	4,350,980	\$ 4,350,980
D	Contingency				
	Contingency (15% of C)			15%	\$ 567,519.17

Е	∃	PROJECT BUDGET			
		Total Estimate			\$ 4,918,499

Notes:

- Due to flat topography of the area, no major cut/fill works have been included for road

Substations

1 No allowance for substations

Preliminaries

2 Based on nominal rates

Subsoil Drain

3 Assume same as kerb and channel

Side Entry Pits

4 Based on 50 m intervals

Tactile Pavers

5 Assume hazard TGSI's (no directional)

Signing

6 Nominal rate

Pavement

7 Assume deep lift ashpalt pavement

8 Based on preliminary information

9 Assume all existing asphalt roads to be demolished and FCR stockpiled

10 Assume crushed rock pavement will be removed as part of general earthworks

AUTHOR: Harrendran Mohan

Date: 14/10/2014

REVIEWER: Rob Henry Date: 14/10/2014

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PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS

CG130898

9.1

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Clyde PSP - Intersection Cost Estimate

Intersection Ref: IN-54-19

Sheet Ref:		OLIANITITY	LIMIT		DATE		AMOUNT		UDTOTAL
ITEM	DESCRIPTION Project and Program Management (5%)	QUANTITY	UNIT		RATE		AMOUNT	\$	UBTOTAL 127,686
Α	Project Management		3.00%		0.00%	\$	76,612	Þ	127,000
	Project Management Project scoping, planning, scheduling, monitoring,		3.00%		0.00%	Φ	70,012		
	reporting and commissioning								
	reporting and commissioning								
	Management of preconstruction activities, development of								
	tender documents and management of contracts								
	Managing external interfaces, including community								
	liaison, environmental issues, traffic issues etc								
	Records management								
	Program Administration		2.00%		0.00%	\$	51,074		
	<u> </u>	vaanaaaaaaaaaaa				-	,		
В	Design and Investigation (10%)							\$	255,372
	Traffic Investigations		0.85%		0.00%	\$	21,707	_	
	Cadastral and Engineering Survey		1.20%		0.00%	\$	30,645		
	Geotechnical investigations Pavement Investigations and		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		0.0070	Ť	00,010		
	Design		1.20%		0.00%	\$	30,645		
	Environmental Investigations				0.00%	\$	-		
	Landscape Design				0.00%	\$	-		
	Preliminary and Final Design		4.25%		0.00%	\$	108,533		
	Construction Management		2.50%		0.00%	\$	63,843		
	Condition Management	<u>VIIIIIIIIIIIIIIIII X</u>	2.0070		0.0070	ΙΨ	00,010		
С	Construction					\$	2,553,722	\$	2,553,722
1	PRELIMINARIES					1	_,===	\$	189,000
1.1	Site establishment (2.5% of total construction cost)	1	Item	\$	64,000	\$	64,000	-	100,000
1.2	Site management & supervision including QA	18	wks	\$	2,500	-	45,000		
1.3	Provision for traffic	1	Item	\$	80,000	\$	80,000		
1.4	Cultural Heritage contigency	1	Item	Ψ	00,000	\$			
2	DEMOLITION	'	item			Ψ		\$	53,740
2.1	Trees	15	No	\$	500	\$	7.500	Ψ	33,740
2.2		2,890	No m²	\$	16	_	7,500 46,240		
3	Plane existing ashpalt EARTHWORKS	2,090	111-	Φ	16	Φ	40,240	\$	143,274
3.1		2.040	2	-	-	0	17.514	φ	143,214
	Stripping topsoil (100mm)	2,919	m ²	\$	6	_	17,514		
3.2	Excavation and removal	2,747	m³	\$	30	-	82,410		
3.3	Stockpile reclaimed FCR	2,890	m³	\$	15	\$	43,350	•	077.445
4	PAVEMENT			-				\$	877,415
4.1	Deep lift asphalt 195 mm	4,434	m²	\$	105		465,570		
4.2	Subbase course - 250 mm 3% CTCR	5,494	m²	\$	55	-	302,170		
4.3	Shoulder - full depth pavement	315	m²	\$	145	_	45,675		
4.4	Subgrade Improvement (2.5% of total construction cost)	1	Item	\$	64,000	\$	64,000		
5	DRAINAGE							\$	174,575
5.1	Subsoil drains 100mm dia - screenings	1,060	Lm	\$	30	\$	31,800		
5.2	Subsoil drains 100mm dia - no fines conc	315	Lm	\$	45	\$	14,175		
5.3	375 RCP (class 2)	580	Lm	\$	170	\$	98,600		
5.4	Side entry pits	12	No	\$	2,500	\$	30,000		
6	CONCRETE WORKS							\$	192,450
6.1	Kerb &channel	1,060	Lm	\$	50	\$	53,000		
6.2									
	Footpath/Shared Path (125 mm, residential, as per MPA)	445	Lm	\$	130	\$	57,850		
6.4	Laybacks and tactile pavers	16	No	\$	850	\$	13,600		
6.5	Concrete island infill	500	m²	\$	85	\$	42,500		
6.5	10m concrete maintenance area	300	m²	\$	85	\$	25,500		
7	TRAFFIC SIGNAL WORKS							\$	275,000
7.1	General items	1	Item	\$	27,500	\$	27,500		
7.2	Conduits	1	Item	\$	22,000		22,000		
7.3	Pedestals	1	Item	\$	55,000	-	55,000		
7.4	Lanterns	1	Item	\$	22,000		22,000		
7.5	Controller	1	Item	\$	82,500		82,500		
7.6	Detectors	1	Item	\$	11,000		11,000		
7.7	Cabling & connections	1		$\overline{}$	44,000		44,000		
			ltem	\$					
7.8	Clean-up	1	Item	\$	11,000	Ф	11,000		
8	SIGNAL MAINTENANCE (10 VEADS) by Dood Authority		itom	•	100.000	0	100.000	•	100.000
9	SIGNAL MAINTENANCE (10 YEARS) by Road Authority POWER & LIGHTING	1	item	\$	100,000	ф	100,000	\$	100,000 193,500

8

4

4

4

1

1

No

No

No

No

Item

Item

\$

\$ \$

\$

Light pole (1-way) and luminous lights

Light pole (2-way) and luminous lights

JUP lighting single

Cabling, conduits and pits
Electrical connection

JUP lighting dual

8,000 \$

9,000 \$

4,000 \$

5,000 \$

40,000 \$

17,500 \$

64,000

36,000

16,000

20,000

40,000

17,500



Version 8.1

PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS

CG130898

Clyde PSP - Intersection Cost Estimate

Intersection Ref: IN-54-19

Amended design as per VicRoads and MPA comments SEP 2014

Sheet Ref: T35

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	AMOUNT		SUBTOTAL
10	LANDSCAPING WORKS						\$ 22,268
10.1	Topsoiling seeding	2,620	m²	\$ 8.50	\$	22,268	
11	SIGNING	1	item	\$ 7,500	\$	7,500	\$ 7,500
12	LINEMARKING (Thermoplastic)	1	item	\$ 25,000	\$	25,000	\$ 25,000
13	SERVICE RELOCATION						\$ 300,000
13.1	Water, gas, telstra (adopted allowance)	1	Item	\$ 150,000	\$	150,000	
13.2	Overhead electrical (adopted allowance)	1	Item	\$ 150,000	\$	150,000	
14	MISCELLANEOUS						\$ -
15	PROVISIONAL SUM - DAYWORK		item		\$	-	\$ -

	TOTAL A - C			\$ 2,936,780	\$ 2,936,780
D	Contingency				
	Contingency (15% of C)			15%	\$ 383,058.28
	·				
Е	PROJECT BUDGET				
	Total Estimate				\$ 3,319,838

Notes:

- Due to flat topography of the area, no major cut/fill works have been included for road

Substations

1 No allowance for substations

Preliminaries

2 Based on nominal rates

Subsoil Drain

3 Assume same as kerb and channel

Side Entry Pits

4 Based on 50 m intervals

Tactile Pavers

5 Assume hazard TGSI's (no directional)

Signing

6 Nominal rate

Pavement

7 Assume deep lift ashpalt pavement

8 Based on preliminary information

- 9 Assume all existing asphalt roads to be demolished and FCR stockpiled
- 10 Assume crushed rock pavement will be removed as part of general earthworks

13

AUTHOR: Harrendran Mohan Date: 14/10/2014



Version 8.1

PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS

CG130898

Clyde PSP - Intersection Cost Estimate

Intersection Ref: IN-54-20

Amended design as per VicRoads and MPA comments SEP 2014 T36

Sheet Ref: T36

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	Α	AMOUNT		BTOTAL
Α	Project and Program Management (5%)						\$	186,974
	Project Management		3.00%	0.00%	\$	112,184		
	Project scoping, planning, scheduling, monitoring, reporting and commissioning							
	Management of preconstruction activities, development of tender documents and management of contracts							
	Managing external interfaces, including community liaison, environmental issues, traffic issues etc							
	Records management		·					
	Program Administration		2.00%	0.00%	\$	74,789		

В	Design and Investigation (10%)				\$ 373,947
	Traffic Investigations	0.85%	0.00%	\$ 31,786	
	Cadastral and Engineering Survey	1.20%	0.00%	\$ 44,874	
	Geotechnical investigations Pavement Investigations and				
	Design	1.20%	0.00%	\$ 44,874	
	Environmental Investigations		0.00%	\$ -	
	Landscape Design		0.00%	\$ -	
	Preliminary and Final Design	4.25%	0.00%	\$ 158,928	
	Construction Management	2.50%	0.00%	\$ 93,487	

С	Construction					\$	3,739,474	\$	3,739,474
1	PRELIMINARIES							\$	244,000
1.1	Site establishment (2.5% of total construction cost)	1	Item	\$	94,000	\$	94,000		
1.2	Site management & supervision including QA	24	wks	\$	2,500	\$	60,000		
1.3	Provision for traffic	1	Item	\$	85,000	\$	85,000		
1.4	Cultural Heritage contigency	1	Item	\$	5,000	\$	5,000		
2	DEMOLITION						,	\$	52,300
2.1	Trees	15	No	\$	500	\$	7,500		
2.2	Plane existing ashpalt	2,800	m²	\$	16	\$	44,800		
3	EARTHWORKS	ŕ					<u> </u>	\$	224,526
3.1	Stripping topsoil (100mm)	5,716	m²	\$	6	\$	34,296		<u> </u>
3.2	Excavation and removal	4,941	m³	\$	30	\$	148,230		
3.3	Stockpile reclaimed FCR	2,800	m³	\$	15	\$	42,000		
4	PAVEMENT	2,000	•••	+		Ť	.2,000	\$	1,558,675
4.1	Deep lift asphalt 195 mm	8,773	m²	\$	105	\$	921,165	Ť	1,000,010
4.2	Subbase course - 250 mm 3% CTCR	9.882	m²	\$	55	\$	543.510		
4.3	Shoulder - full depth pavement		m²	\$	145	\$	-		
4.4	Subgrade Improvement (2.5% of total construction cost)	1	Item	\$	94.000	-	94.000		
5	DRAINAGE	'	item	Ψ	34,000	Ψ	34,000	\$	287,600
5.1	Subsoil drains 100mm dia - screenings	2,620	Lm	\$	30	\$	78.600	Ψ	201,000
5.2	Subsoil drains 100mm dia - no fines conc	2,020	Lm	\$	45	\$	70,000		
5.3	375 RCP (class 2)	950	Lm	\$	170	\$	161,500		
5.4	Side entry pits	19	No	\$	2,500	\$	47,500		
6	CONCRETE WORKS	19	INU	Ψ	2,300	φ	47,300	\$	358.660
6.1	Kerb &channel	2,620	Lm	\$	50	\$	131,000	Ψ	330,000
6.2	Reib actiatille	2,020	LIII	Ψ		Ψ	131,000		
0.2	Footpath/Shared Path (125 mm, residential, as per MPA)	828	Lm	\$	130	\$	107.640		
6.4	Laybacks and tactile pavers	16	No	\$	850	\$	13,600		
6.5	Concrete island infill	452	m ²	\$	85	\$	38,420		
6.5	10m concrete maintenance area	800	m²	\$	85	\$	68,000		
7	TRAFFIC SIGNAL WORKS	000		Ψ		Ψ	00,000	\$	275,000
7.1	General items	1	Item	\$	27,500	\$	27,500	Ψ	270,000
7.2	Conduits	1	Item	\$	22,000	-	22,000		
7.3	Pedestals	1	Item	\$	55,000	-	55,000		
7.4	Lanterns	1	Item	\$	22,000	-	22,000		
7.5	Controller	1	Item	\$	82,500	\$	82,500		
7.6	Detectors	1	Item	\$	11,000	-	11,000		
7.7		1		\$	44,000	_	44,000		
7.8	Cabling & connections	1	Item	\$		_			
8	Clean-up	I	Item	1	11,000	Þ	11,000		
0	SIGNAL MAINTENANCE (10 YEARS) by Road Authority	1	:4 a ma	\$	100.000	\$	400.000	·	100.000
	POWER & LIGHTING	I	item	1	100,000	ф	100,000	\$	100,000
9.1		0	No	•	0.000	0	64.000	Ф	243,500
	Light pole (1-way) and luminous lights	8	No	\$	8,000	_	64,000		
9.2	Light pole (2-way) and luminous lights	6	No	\$	9,000	-	54,000		
9.3	JUP lighting single	12	No No	\$	4,000		48,000		
9.4	JUP lighting dual	4	No	\$	5,000		20,000		
9.5	Cabling, conduits and pits	1	Item	\$	40,000		40,000		
9.6	Electrical connection	1	Item	\$	17,500	\$	17,500		



Version 8.1

PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS

CG130898

Clyde PSP - Intersection Cost Estimate

Intersection Ref: IN-54-20

Amended design as per VicRoads and MPA comments SEP 2014

Sheet Ref: T36

Sileeti							
ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	4	AMOUNT	SUBTOTAL
10	LANDSCAPING WORKS						\$ 62,713
10.1	Topsoiling seeding	7,378	m²	\$ 8.50	\$	62,713	
11	SIGNING	1	item	\$ 7,500	\$	7,500	\$ 7,500
12	LINEMARKING (Thermoplastic)	1	item	\$ 25,000	\$	25,000	\$ 25,000
13	SERVICE RELOCATION						\$ 300,000
13.1	Water, gas, telstra (adopted allowance)	1	Item	\$ 150,000	\$	150,000	
13.2	Overhead electrical (adopted allowance)	1	Item	\$ 150,000	\$	150,000	
14	MISCELLANEOUS						\$ -
15	PROVISIONAL SUM - DAYWORK		item		\$	-	\$ -

	TOTAL A - C		\$	4,300,395	\$ 4,300,395
D	Contingency				
	Contingency (15% of C)			15%	\$ 560,921.10

E	PROJECT BUDGET			
	Total Estimate			\$ 4,861,316

Notes:

- Due to flat topography of the area, no major cut/fill works have been included for road

Substations

1 No allowance for substations

Preliminaries

2 Based on nominal rates

4 Based on 50 m intervals

Subsoil Drain

3 Assume same as kerb and channel

Side Entry Pits

Tactile Pavers

5 Assume hazard TGSI's (no directional)

Signing

6 Nominal rate

Pavement

7 Assume deep lift ashpalt pavement

8 Based on preliminary information

9 Assume all existing asphalt roads to be demolished and FCR stockpiled

10 Assume crushed rock pavement will be removed as part of general earthworks

13

AUTHOR: Harrendran Mohan Date: 14/10/2014



PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS

CG130898

Clyde PSP - Intersection Cost Estimate Intersection Ref: IN-57.1-01

Amended design as per VicRoads and MPA comments SEP 2014

Sheet Ref: T37

OF DEVELOPMENT COSTS	20 August 2015
	Version 8.1
ost Estimate	
1-01	

ITEM	DESCRIPTION	QUANTITY	UNIT		RATE		AMOUNT		SUBTOTAL
Α	Project and Program Management (5%)							\$	125,80
	Project Management		3.00%		0.00%	\$	75,481		
	Project scoping, planning, scheduling, monitoring,								
	reporting and commissioning								
	Management of preconstruction activities, development of								
	tender documents and management of contracts								
	Managing external interfaces, including community								
	liaison, environmental issues, traffic issues etc								
	Records management								
	Program Administration		2.00%		0.00%	\$	50,321		
3	Design and Investigation (10%)							\$	251,6
_	Traffic Investigations		0.85%		0.00%	\$	21,386	-	
	Cadastral and Engineering Survey		1.20%		0.00%	\$	30,192		
	Geotechnical investigations Pavement Investigations and		1.2070		0.0070	۳	00,102		
	Design		1.20%		0.00%	\$	30,192		
	Environmental Investigations		1.2070		0.00%	\$			
	Landscape Design				0.00%	\$			
			4.050/			_	100 001		
	Preliminary and Final Design		4.25%	ann annanna	0.00%	\$	106,931		
	Construction Management		2.50%		0.00%	\$	62,901		
	Construction					\$	2,516,031	\$	2,516,0
	PRELIMINARIES							\$	180,5
.1	Site establishment (2.5% of total construction cost)	1	Item	\$	64,000	\$	64,000		
.2	Site management & supervision including QA	17	wks	\$	2,500	\$	42,500		
.3	Provision for traffic	1	Item	\$	74,000	\$	74,000		
.4	Cultural Heritage contigency	1	Item			\$			
2	DEMOLITION							\$	46.9
2.1	Trees	20	No	\$	500	\$	10,000	_	,.
2.2	Plane existing ashpalt	2,310	m ²	\$	16	_	36,960		
<u>.</u>	EARTHWORKS	2,310		Ψ	10	Ψ	30,300	\$	146,2
		0.044	3	_		Φ.	00.040	Ψ	140,2
3.1	Stripping topsoil (100mm)	3,841	m²	\$	6	\$	23,046		
3.2	Excavation and removal	2,952	m³	\$	30	\$	88,560		
3.3	Stockpile reclaimed FCR	2,310	m³	\$	15	\$	34,650		
	PAVEMENT							\$	944,4
1.1	Deep lift asphalt 195 mm	4,952	m²	\$	105	\$	519,960		
1.2	Subbase course - 250 mm 3% CTCR	5,904	m²	\$	55	\$	324,720		
1.3	Shoulder - full depth pavement	247	m²	\$	145	\$	35,815		
1.4	Subgrade Improvement (2.5% of total construction cost)	1	Item	\$	64,000	\$	64,000		
5	DRAINAGE				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		,,,,,,	\$	182,6
5.1	Subsoil drains 100mm dia - screenings	952	Lm	\$	30	\$	28,560	<u> </u>	
5.2	Subsoil drains 100mm dia - no fines conc	247	Lm	\$	45	\$	11,115		
5.3	375 RCP (class 2)	650	Lm	\$	170	\$	110,500		
5.4				_		-			
	Side entry pits	13	No	\$	2,500	\$	32,500	•	404.0
<u> </u>	CONCRETE WORKS							\$	134,8
5.1	Kerb &channel	952	Lm	\$	50	\$	47,600		
5.2									
	Footpath/Shared Path (125 mm, residential, as per MPA)	350	Lm	\$	130	\$	45,500		
5.4	Laybacks and tactile pavers	9	No	\$	850		7,650		
3.5	Concrete island infill	121	m²	\$	85	\$	10,285		
6.5	10m concrete maintenance area	280	m²	\$	85	\$	23,800		
7	TRAFFIC SIGNAL WORKS							\$	237,5
7.1	General items	1	Item	\$	23,000	\$	23,000		,
7.2	Conduits	1	Item	\$	18,000		18,000		
7.3	Pedestals	1	Item	\$	45,000	-	45,000		
.3 7.4	Lanterns	1	Item	\$	18,000	-	18,000		
7.5	Controller	1		\$					
7.6	<u> </u>		Item		75,000		75,000		
	Detectors	1	Item	\$	9,500		9,500		
7.7	Cabling & connections	1	Item	\$	40,000	_	40,000		
7.8	Clean-up	1	Item	\$	9,000	\$	9,000		
3									
	SIGNAL MAINTENANCE (10 YEARS) by Road Authority	1	item	\$	100,000	\$	100,000	\$	100,0
)	POWER & LIGHTING							\$	190,5
9.1	Light pole (1-way) and luminous lights	9	No	\$	8,000	\$	72,000		
).2	Light pole (2-way) and luminous lights	3	No	\$	9,000	-	27,000		
.3	JUP lighting single	6	No	\$	4,000	-	24,000		
1.4	JUP lighting dual	2	No	\$	5,000		10,000		
).5						-			
	Cabling, conduits and pits	1	Item	\$	40,000	-	40,000		
9.6	Electrical connection	1	Item	\$	17,500	1 35	17,500		



20 August 2015

Version 8.1

PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS

CG130898

Clyde PSP - Intersection Cost Estimate

Intersection Ref: IN-57.1-01

Amended design as per VicRoads and MPA comments SEP 2014

Sheet Ref:

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	1	AMOUNT	SUBTOTAL
10	LANDSCAPING WORKS						\$ 19,810
10.1	Topsoiling seeding	2,331	m²	\$ 8.50	\$	19,810	
11	SIGNING	1	item	\$ 7,500	\$	7,500	\$ 7,500
12	LINEMARKING (Thermoplastic)	1	item	\$ 25,000	\$	25,000	\$ 25,000
13	SERVICE RELOCATION						\$ 300,000
13.1	Water, gas, telstra (adopted allowance)	1	Item	\$ 150,000	\$	150,000	
13.2	Overhead electrical (adopted allowance)	1	Item	\$ 150,000	\$	150,000	
14	MISCELLANEOUS						\$ -
15	PROVISIONAL SUM - DAYWORK		item		\$	-	\$ -

	TOTAL A - C			\$ 2,893,435	\$ 2,893,435
D	Contingency				
	Contingency (15% of C)			15%	\$ 377,404.60
E	PROJECT BUDGET				
	Total Estimate				\$ 3,270,840

Notes:

- Due to flat topography of the area, no major cut/fill works have been included for road

Substations

1 No allowance for substations

Preliminaries

2 Based on nominal rates

4 Based on 50 m intervals

Subsoil Drain

Side Entry Pits

3 Assume same as kerb and channel

Tactile Pavers

5 Assume hazard TGSI's (no directional)

Signing

6 Nominal rate

Pavement

7 Assume deep lift ashpalt pavement

8 Based on preliminary information

- 9 Assume all existing asphalt roads to be demolished and FCR stockpiled
- 10 Assume crushed rock pavement will be removed as part of general earthworks

13

AUTHOR: Harrendran Mohan Date: 14/10/2014



PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS

CG130898

Clyde PSP - Intersection Cost Estimate Intersection Ref: IN-57.1-02

Amended design as per VicRoads and MPA comments SEP 2014

20 August 2015	
Version 8.1	

ITEM	Ref: T38 DESCRIPTION	QUANTITY	UNIT		RATE		AMOUNT	S	UBTOTAL
A	Project and Program Management (5%)							\$	133,424
	Project Management		3.00%		0.00%	\$	80,054	,	
	Project scoping, planning, scheduling, monitoring,								
	reporting and commissioning								
	Management of a second of the								
	Management of preconstruction activities, development of								
	tender documents and management of contracts Managing external interfaces, including community								
	liaison, environmental issues, traffic issues etc								
	Records management								
	Program Administration		2.00%		0.00%	\$	53,370		
		Tananananananananananas (a							
В	Design and Investigation (10%)							\$	266,848
	Traffic Investigations		0.85%		0.00%	\$	22,682		
	Cadastral and Engineering Survey		1.20%		0.00%	\$	32,022		
	Geotechnical investigations Pavement Investigations and								
	Design		1.20%		0.00%	\$	32,022		
	Environmental Investigations				0.00%	\$	-		
	Landscape Design				0.00%	\$	-		
	Preliminary and Final Design		4.25%		0.00%	\$	113,410		
	Construction Management		2.50%		0.00%	\$	66,712		
^	Construction					<u></u>	2 660 470	•	2 000 470
<u>C</u>	Construction PRELIMINARIES					\$	2,668,479	\$	2,668,479 189,500
1.1		1	Itom	•	67.000	4	67,000	Φ	169,500
1.2	Site establishment (2.5% of total construction cost)		Item	\$	67,000	_			
1.3	Site management & supervision including QA	19	wks	\$	2,500	\$	47,500		
1.4	Provision for traffic	1	Item	1	75,000	\$	75,000		
2	Cultural Heritage contigency DEMOLITION	1	Item			Ф		\$	49,100
2.1		15	Na	\$	500	•	7.500	Φ	49,100
2.2	Trees	15	No m²	\$	500 16	\$	7,500		
3	Plane existing ashpalt EARTHWORKS	2,600	m²	1	10	Ф	41,600	\$	146 110
3.1		2.700	2	•		0	22.240	Ф	146,118
3.1	Stripping topsoil (100mm)	3,708	m ² m ³	\$	6 30	\$	22,248		
3.3	Excavation and removal	2,829	m³	\$	15	\$	84,870		
4	Stockpile reclaimed FCR PAVEMENT	2,600		1	15	Ф	39,000	\$	951,765
4.1		4,565	m²	\$	105	\$	470.225	Ψ	931,703
4.2	Deep lift asphalt 195 mm Subbase course - 250 mm 3% CTCR	5,658	m² m²	\$	55	_	479,325 311,190		
4.3	Shoulder - full depth pavement	650	m²	\$	145	_	94,250		
4.4	Subgrade Improvement (2.5% of total construction cost)	1	Item	\$	67,000	_	67,000		
5	DRAINAGE	'	пеш	Ψ	07,000	Ψ	67,000	\$	188,090
5.1	Subsoil drains 100mm dia - screenings	1,093	Lm	\$	30	\$	32,790	Ψ	100,000
5.2	Subsoil drains 100mm dia - no fines conc	650	Lm	\$	45	_	29,250		
5.3	375 RCP (class 2)	565	Lm	\$	170	_	96,050		
5.4	Side entry pits	12	No	\$	2,500	_	30,000		
6	CONCRETE WORKS	12	140	Ψ	2,300	Ψ	30,000	\$	221,850
6.1	Kerb &channel	1,093	Lm	\$	50	\$	54,650	_	221,000
6.2	Total Condition	1,000		+	- 00	Ψ	0 1,000		
0.2	Footpath/Shared Path (125 mm, residential, as per MPA)	750	Lm	\$	130	\$	97,500		
6.4	Laybacks and tactile pavers	12	No	\$	850	_	10,200		
6.5	Concrete island infill	400	m²	\$	85	_	34,000		
6.5	10m concrete maintenance area	300	m²	\$	85		25,500		
7	TRAFFIC SIGNAL WORKS						,	\$	275,000
7.1	General items	1	Item	\$	27,500	\$	27,500		
7.2	Conduits	1	Item	\$	22,000		22,000		
7.3	Pedestals	1	Item	\$	55,000	_	55,000		
7.4	Lanterns	1	Item	\$	22,000		22,000		
7.5	Controller	1	Item	\$	82,500		82,500		
7.6	Detectors	1	Item	\$	11,000		11,000		
7.7	Cabling & connections	1	Item	\$	44,000		44,000		
7.8	Clean-up	1	Item	\$	11,000	_	11,000		
8					,	Ė	,		
	SIGNAL MAINTENANCE (10 YEARS) by Road Authority	1	item	\$	100,000	\$	100,000	\$	100,000
9	POWER & LIGHTING							\$	191,000
9.1	Light pole (1-way) and luminous lights	8	No	\$	8,000	\$	64,000		
9.2	Light pole (2-way) and luminous lights	4	No	\$	9,000		36,000		
9.3	JUP lighting single	4	No	\$	4,000		16,000		
9.4	JUP lighting dual	4	No	\$	5,000		20,000		
9.5	Cabling, conduits and pits	1	Item	\$	44,000	_	44,000		
5.5		1 1 1		ĮΨ					



Version 8.1

PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS

CG130898

Clyde PSP - Intersection Cost Estimate

Intersection Ref: IN-57.1-02

Amended design as per VicRoads and MPA comments SEP 2014

Sheet Ref: T3

Officer rect.	100				_		
ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	AMOUNT		SUBTOTAL
10	LANDSCAPING WORKS						\$ 23,556
10.1	Topsoiling seeding	2,771	m²	\$ 8.50	\$	23,556	
11	SIGNING	1	item	\$ 7,500	\$	7,500	\$ 7,500
12	LINEMARKING (Thermoplastic)	1	item	\$ 25,000	\$	25,000	\$ 25,000
13	SERVICE RELOCATION						\$ 300,000
13.1	Water, gas, telstra (adopted allowance)	1	Item	\$ 150,000	\$	150,000	
13.2	Overhead electrical (adopted allowance)	1	Item	\$ 150,000	\$	150,000	
14	MISCELLANEOUS						\$ -
15	PROVISIONAL SUM - DAYWORK		item		\$	-	\$ -

	TOTAL A - C		\$	3,068,751	\$ 3,068,751
D	Contingency				
	Contingency (15% of C)			15%	\$ 400,271.92
	I				

Е	PROJECT BUDGET			
	Total Estimate			\$ 3,469,023

Notes:

- Due to flat topography of the area, no major cut/fill works have been included for road

Substations

1 No allowance for substations

Preliminaries

2 Based on nominal rates

Subsoil Drain

Side Entry Pits

3 Assume same as kerb and channel

4 Based on 50 m intervals

Tactile Pavers

5 Assume hazard TGSI's (no directional)

Signing

6 Nominal rate

Pavement

7 Assume deep lift ashpalt pavement

8 Based on preliminary information

- 9 Assume all existing asphalt roads to be demolished and FCR stockpiled
- 10 Assume crushed rock pavement will be removed as part of general earthworks

13

AUTHOR: Harrendran Mohan Date: 14/10/2014



PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS

CG130898

Clyde PSP - Intersection Cost Estimate
Intersection Ref: IN-57.1-03
Amended design a

Amended design as per VicRoads and MPA comments Sep 2014

20 August 2015 Version 8.1

Sheet Ref:	T39								
ITEM	DESCRIPTION	QUANTITY	UNIT		RATE		AMOUNT	S	UBTOTAL
Α	Project and Program Management (5%)							\$	101,228
	Project Management		3.00%		0.00%	\$	60,737		
	Project scoping, planning, scheduling, monitoring,								
	reporting and commissioning								
	Management of preconstruction activities, development								
	of tender documents and management of contracts								
	Managing external interfaces, including community								
	liaison, environmental issues, traffic issues etc								
	Records management					_			
	Program Administration		2.00%		0.00%	\$	40,491		
В	Design and Investigation (10%)							\$	202,455
	Traffic Investigations		0.85%		0.00%	\$	17,209		
	Cadastral and Engineering Survey		1.20%		0.00%	\$	24,295		
	Geotechnical investigations Pavement Investigations								
	and Design		1.20%		0.00%	\$	24,295		
	Environmental Investigations				0.00%	\$	-		
	Landscape Design				0.00%	\$	-		
	Preliminary and Final Design		4.25%		0.00%	\$	86,043		
	Construction Management		2.50%		0.00%	\$	50,614		
С	Construction					\$	2,024,551	\$	2,024,551
1	PRELIMINARIES							\$	147,000
1.1	Site establishment (2.5% of total construction cost)	1	Item	\$	51,000	\$	51,000		
1.2	Site management & supervision including QA	16	wks	\$	2,500	\$	40,000		
1.3	Provision for traffic	1	Item	\$	56,000	\$	56,000		
1.4	Cultural Heritage contigency	1	Item	<u> </u>	,	\$	-		
2	DEMOLITION					<u> </u>		\$	22,500
2.1	Trees	45	No	\$	500	\$	22,500	Ψ	22,000
3	EARTHWORKS	40	140	Ψ	300	Ψ	22,300	\$	71,970
3.1	Stripping topsoil (100mm)	4,070	m²	\$		\$	24,420	Ψ	71,970
3.2	 			\$		-			
	Excavation and removal PAVEMENT	1,585	m³	1	30	Φ	47,550	\$	600.050
4		0.400	2	Φ.	405	•	054400	Ф	609,950
4.1	Deep lift asphalt 195 mm	2,420	m²	\$	105		254,100		
4.2	Subbase course - 250 mm 3% CTCR	3,170	m²	\$	55	_	174,350		
4.3	Shoulder - full depth pavement	900	m²	\$	145	_	130,500		
4.4	Subgrade Improvement (2.5% of total construction cost)	1	Item	\$	51,000	\$	51,000		
5	DRAINAGE							\$	151,000
5.1	Subsoil drains 100mm dia - screenings	750	Lm	\$	30	_	22,500		
5.2	Subsoil drains 100mm dia - no fines conc	900	Lm	\$	45	\$	40,500		
5.3	375 RCP (class 2)	400	Lm	\$	170	\$	68,000		
5.4	Side entry pits	8	No	\$	2,500	\$	20,000		
6	CONCRETE WORKS							\$	155,890
6.1	Kerb &channel	750	Lm	\$	50	\$	37,500		
6.2	Footpath/Shared Path (125 mm, residential, as per					Ė	,		
	MPA)	538	Lm	\$	130	\$	69,940		
6.4	Laybacks and tactile pavers	10	No	\$	850		8,500		
6.5	Concrete island infill	250	m²	\$	85	_	21,250		
6.5	10m concrete maintenance area	220	m²	\$	85	-	18,700		
7	TRAFFIC SIGNAL WORKS			1		Ť		\$	237,500
			Item	\$	23,000	\$	23,000		
	General items	1 1 1				-	18,000		
7.1	General items Conduits	1		¢			10,000		
7.1 7.2	Conduits	1	Item	\$	18,000 45,000	_	45 000		
7.1 7.2 7.3	Conduits Pedestals	1	Item Item	\$	45,000	\$	45,000 18,000		
7.1 7.2 7.3 7.4	Conduits Pedestals Lanterns	1 1 1	Item Item Item	\$ \$	45,000 18,000	\$ \$	18,000		
7.1 7.2 7.3 7.4 7.5	Conduits Pedestals Lanterns Controller	1 1 1 1	Item Item Item Item	\$ \$ \$	45,000 18,000 75,000	\$ \$ \$	18,000 75,000		
7.1 7.2 7.3 7.4 7.5 7.6	Conduits Pedestals Lanterns Controller Detectors	1 1 1 1	Item Item Item Item Item	\$ \$ \$	45,000 18,000 75,000 9,500	\$ \$ \$	18,000 75,000 9,500		
7.1 7.2 7.3 7.4 7.5 7.6 7.7	Conduits Pedestals Lanterns Controller Detectors Cabling & connections	1 1 1 1 1	Item Item Item Item Item Item Item	\$ \$ \$ \$	45,000 18,000 75,000 9,500 40,000	\$ \$ \$ \$	18,000 75,000 9,500 40,000		
7.1 7.2 7.3 7.4 7.5 7.6 7.7 7.8	Conduits Pedestals Lanterns Controller Detectors Cabling & connections Clean-up	1 1 1 1	Item Item Item Item Item	\$ \$ \$	45,000 18,000 75,000 9,500	\$ \$ \$ \$	18,000 75,000 9,500		
7.1 7.2 7.3 7.4 7.5 7.6 7.7	Conduits Pedestals Lanterns Controller Detectors Cabling & connections Clean-up SIGNAL MAINTENANCE (10 YEARS) by Road	1 1 1 1 1 1 1 1 1 1	Item Item Item Item Item Item Item Item	\$ \$ \$ \$ \$	45,000 18,000 75,000 9,500 40,000 9,000	\$ \$ \$ \$ \$	18,000 75,000 9,500 40,000 9,000		
7.1 7.2 7.3 7.4 7.5 7.6 7.7 7.8	Conduits Pedestals Lanterns Controller Detectors Cabling & connections Clean-up SIGNAL MAINTENANCE (10 YEARS) by Road Authority	1 1 1 1 1	Item Item Item Item Item Item Item	\$ \$ \$ \$	45,000 18,000 75,000 9,500 40,000	\$ \$ \$ \$ \$	18,000 75,000 9,500 40,000	\$	100,000
7.1 7.2 7.3 7.4 7.5 7.6 7.7 7.8 8	Conduits Pedestals Lanterns Controller Detectors Cabling & connections Clean-up SIGNAL MAINTENANCE (10 YEARS) by Road Authority POWER & LIGHTING	1 1 1 1 1 1 1 1 1 1	Item Item Item Item Item Item Item Item	\$ \$ \$ \$ \$	45,000 18,000 75,000 9,500 40,000 9,000	\$ \$ \$ \$ \$	18,000 75,000 9,500 40,000 9,000	\$	
7.1 7.2 7.3 7.4 7.5 7.6 7.7 7.8 8	Conduits Pedestals Lanterns Controller Detectors Cabling & connections Clean-up SIGNAL MAINTENANCE (10 YEARS) by Road Authority	1 1 1 1 1 1 1 1 1 1	Item Item Item Item Item Item Item Item	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	45,000 18,000 75,000 9,500 40,000 9,000	\$ \$ \$ \$ \$	18,000 75,000 9,500 40,000 9,000		
7.1 7.2 7.3 7.4 7.5 7.6 7.7 7.8 8	Conduits Pedestals Lanterns Controller Detectors Cabling & connections Clean-up SIGNAL MAINTENANCE (10 YEARS) by Road Authority POWER & LIGHTING	1 1 1 1 1 1 1 1 1	Item Item Item Item Item Item Item Item	\$ \$ \$ \$ \$	45,000 18,000 75,000 9,500 40,000 9,000	\$ \$ \$ \$ \$	18,000 75,000 9,500 40,000 9,000		
7.1 7.2 7.3 7.4 7.5 7.6 7.7 7.8 8	Conduits Pedestals Lanterns Controller Detectors Cabling & connections Clean-up SIGNAL MAINTENANCE (10 YEARS) by Road Authority POWER & LIGHTING Light pole (1-way) and luminous lights	1 1 1 1 1 1 1 1 1 1 1	Item Item Item Item Item Item Item Item	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	45,000 18,000 75,000 9,500 40,000 9,000 100,000	\$ \$ \$ \$ \$	18,000 75,000 9,500 40,000 9,000 100,000		
7.1 7.2 7.3 7.4 7.5 7.6 7.7 7.8 8	Conduits Pedestals Lanterns Controller Detectors Cabling & connections Clean-up SIGNAL MAINTENANCE (10 YEARS) by Road Authority POWER & LIGHTING Light pole (1-way) and luminous lights Light pole (2-way) and luminous lights	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Item Item Item Item Item Item Item Item	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	45,000 18,000 75,000 9,500 40,000 9,000 100,000 8,000 9,000	\$ \$ \$ \$ \$ \$	18,000 75,000 9,500 40,000 9,000 100,000 80,000 18,000		100,000 186,500
7.1 7.2 7.3 7.4 7.5 7.6 7.7 7.8 8 9 9.1 9.2 9.3	Conduits Pedestals Lanterns Controller Detectors Cabling & connections Clean-up SIGNAL MAINTENANCE (10 YEARS) by Road Authority POWER & LIGHTING Light pole (1-way) and luminous lights Light pole (2-way) and luminous lights JUP lighting single	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 4 4	Item Item Item Item Item Item Item Item	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	45,000 18,000 75,000 9,500 40,000 9,000 100,000 8,000 9,000 4,000	\$ \$ \$ \$ \$ \$ \$	18,000 75,000 9,500 40,000 9,000 100,000 80,000 18,000 16,000		



Version 8.1

PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS

CG130898

Clyde PSP - Intersection Cost Estimate Intersection Ref: IN-57.1-03

Amended design as per VicRoads and MPA comments Sep 2014

Sheet Ref: T39

Officet i	itel. 100							
ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	/	AMOUNT		SUBTOTAL
10	LANDSCAPING WORKS						\$	19,741
10.1	Topsoiling seeding	2,323	m²	\$ 8.50	\$	19,741		
11	SIGNING	1	item	\$ 7,500	\$	7,500	\$	7,500
12	LINEMARKING (Thermoplastic)	1	item	\$ 15,000	\$	15,000	\$	15,000
13	SERVICE RELOCATION						\$	300,000
13.1	Water, gas, telstra (adopted allowance)	1	Item	\$ 150,000	\$	150,000		
13.2	Overhead electrical (adopted allowance)	1	Item	\$ 150,000	\$	150,000		
14	MISCELLANEOUS						\$	-
15	PROVISIONAL SUM - DAYWORK		item		\$	-	\$	-

D Contingency Contingency (15% of C) 15% \$ 303,682.69		TOTAL A - C		\$	2,328,234	\$ 2,328,234
Contingency (15% of C) 15% \$ 303,682.69	D					
		Contingency (15% of C)			15%	\$ 303,682.69

E	PROJECT BUDGET			
	Total Estimate			\$ 2,631,917

Notes:

- Due to flat topography of the area, no major cut/fill works have been included for road

Substations

1 No allowance for substations

Preliminaries

2 Based on nominal rates

Subsoil Drain

3 Assume same as kerb and channel

Side Entry Pits

4 Based on 50 m intervals

Tactile Pavers

5 Assume hazard TGSI's (no directional)

Signing

6 Nominal rate

Pavement

7 Assume deep lift ashpalt pavement

Tree Removal

8 Based on preliminary information

9

AUTHOR: Harrendran Mohan Date: 14/10/2014



PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS

CG130898

Clyde PSP - Intersection Cost Estimate Intersection Ref: IN-57.1-04

Amended design as per VicRoads and MPA comments Sep 2014

Sheet Ref: T40

DEVELOPMENT COSTS	20 August 2015 Version 8.1
Estimate	
14	

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	T	AMOUNT	8	UBTOTAL
A	Project and Program Management (5%)						\$	171,916
	Project Management		3.00%	0.00%	\$	103,150		
	Project scoping, planning, scheduling, monitoring,							
	reporting and commissioning							
	Management of preconstruction activities, development							
	of tender documents and management of contracts Managing external interfaces, including community							
	liaison, environmental issues, traffic issues etc							
	Records management							
	Program Administration		2.00%	0.00%	\$	68,766		
		Vallatian ilian ilian ilian ilian ilian ilian ilian ilian ilian ilian ilian ilian ilian ilian ilian ilian ilia			/al -	,		
В	Design and Investigation (10%)						\$	343,832
	Traffic Investigations		0.85%	0.00%	\$	29,226		
	Cadastral and Engineering Survey		1.20%	0.00%	\$	41,260		
	Geotechnical investigations Pavement Investigations		4.000/	2 2004		44.000		
	and Design		1.20%	0.00%	\$	41,260		
	Environmental Investigations			0.00%	\$			
	Landscape Design Preliminary and Final Design		4.25%	0.00%	\$	146,128		
	Construction Management		2.50%	0.00%	\$	85,958		
	Construction Management		2.30 /6	0.0076	Ψ	05,950		
С	Construction				\$	3,438,317	\$	3,438,317
1	PRELIMINARIES					2, 100,017	\$	194,000
1.1	Site establishment (2.5% of total construction cost)	1	Item	\$ 69,000	\$	69,000		,
1.2	Site management & supervision including QA	20	wks	\$ 2,500	_	50,000		
1.3	Provision for traffic	1	Item	\$ 75,000	_	75,000		
1.4	Cultural Heritage contigency	1	Item		\$	-		
2	DEMOLITION						\$	97,500
2.1	Trees	25	No	\$ 500	\$	12,500		
2.2	Plane existing ashpalt	1	Item	\$ 85,000	\$	85,000		
3	EARTHWORKS						\$	187,665
3.1	Stripping topsoil (100mm)	5,840	m²	\$ 6	+ -	35,040		
3.2	Excavation and removal	3,748	m³	\$ 30	+ -	112,425		
3.3	Stockpile reclaimed FCR	2,680	m³	\$ 15	\$	40,200		
4	PAVEMENT						\$	1,266,150
4.1	Deep lift asphalt 195 mm	6,060	m²	\$ 105	-	636,300		
4.4	Subbase course - 250 mm 3% CTCR	7,495	m²	\$ 55	_	412,225		
4.4	Shoulder - full depth pavement Subgrade Improvement (2.5% of total construction cost)	1,025	m ² Item	\$ 145 \$ 69,000	+ -	148,625 69,000		
5	DRAINAGE	I .	item	\$ 69,000	Φ	69,000	\$	282,925
5.1	Subsoil drains 100mm dia - screenings	1,435	Lm	\$ 30	\$	43,050	Ψ	202,320
5.2	Subsoil drains 100mm dia - no fines conc	1,025	Lm	\$ 45	+ -	46,125		
5.3	375 RCP (class 2)	875	Lm	\$ 170	+ -	148,750		
5.4	Side entry pits	18	No	\$ 2,500	+ -	45,000		
6	CONCRETE WORKS			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Ť	-,	\$	327,425
6.1	Kerb &channel	1,435	Lm	\$ 50	\$	71,750		
6.2	Footpath/Shared Path (125 mm, residential, as per							
	MPA)	1,035	Lm	\$ 130	_	134,550		
6.4	Laybacks and tactile pavers	24	No	\$ 850	-	20,400		
6.5	Concrete island infill	685	m²		\$	58,225		
6.5	10m concrete maintenance area	500	m²	\$ 85	\$	42,500	_	
7	TRAFFIC SIGNAL WORKS	4		A 07.500		07.500	\$	275,000
7.1 7.2	General items	1	Item	\$ 27,500		27,500		
7.3	Conduits Pedestals	1	Item	\$ 22,000	_	22,000		
7.4	Lanterns	1	Item Item	\$ 55,000 \$ 22,000	-	55,000 22,000		
7.5	Controller	1	Item	\$ 82,500		82,500		
7.6	Detectors	1	Item	\$ 11,000	+ -	11,000		
7.7	Cabling & connections	1	Item	\$ 44,000	-	44,000		
7.8	Clean-up	1	Item	\$ 11,000	-	11,000		
8	SIGNAL MAINTENANCE (10 YEARS) by Road			11,555	Ť	,		
	Authority	1	item	\$ 100,000	\$	100,000	\$	100,000
9	POWER & LIGHTING						\$	330,000
9.1	Light pole (1-way) and luminous lights	18	No	\$ 8,000	\$	144,000		
9.2	Light pole (2-way) and luminous lights	8	No	\$ 9,000	-	72,000		
9.3	JUP lighting single	6	No	\$ 4,000	\$	24,000		
9.4	JUP lighting dual	7	No	\$ 5,000	-	35,000		
9.5	Cabling, conduits and pits	1	Item	\$ 44,000	-	44,000		
9.6	Electrical connection	1	Item	\$ 11,000	\$	11,000		
10	LANDSCAPING WORKS						\$	45,152
10.1	Topsoiling seeding	5,312	m²	\$ 8.50	\$	45,152		



Version 8.1

PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS

CG130898

Clyde PSP - Intersection Cost Estimate

Intersection Ref: IN-57.1-04

Amended design as per VicRoads and MPA comments Sep 2014

Sheet Ref:

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE		AMOUNT		SUBTOTAL
11	SIGNING	1	item	\$ 7,500	\$	7,500	\$	7,500
12	LINEMARKING (Thermoplastic)	1	item	\$ 25,000	\$	25,000	\$	25,000
13	(Overhead electrical)	1	Item				\$	300,000
13.1	Water, gas, telstra (adopted allowance)	1	Item	\$ 150,000	\$	150,000		
13.2	Overhead electrical (adopted allowance)	1	Item	\$ 150,000	\$	150,000		
14	MISCELLANEOUS						\$	-
15	PROVISIONAL SUM - DAYWORK		item		\$	-	\$	-
	·							
	TOTAL A - C				Φ.	2 054 065	ı e	2 054 065

	IOIALA O		Ψ 3,334,003	Ψ	3,334,003
D	Contingency				
	Contingency (15% of C)		15%	\$	515,747.55

E	PROJECT BUDGET			
	Total Estimate			\$ 4,469,812

1 Service relocation / alterations have not been allowed for in the estimate

1 No allowance for water, gas, telstra, sewer

Substations

2 No allowance for substations

Preliminaries

3 Based on nominal rates

Subsoil Drain

4 Assume same as kerb and channel

Side Entry Pits

5 Based on 50 m intervals

Tactile Pavers

6 Assume hazard TGSI's (no directional)

Signing

7 Nominal rate

Pavement

8 Assume deep lift ashpalt pavement

Tree Removal

9 Based on preliminary information

Roads

11 Assume all existing asphalt roads to be demolished

AUTHOR: Harrendran Mohan Date: 14/10/2014



7.6 Interim road costings



PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS

PROJECT BUDGET

Total Estimate per linear metre

SUMMARY SHEET CG130898

28 April 2015

Version 13

Clyde PSP - Road Per Metre

\$ 4,102.75 \$

4,074.06 \$

5,442.88

Interim	works					
ITEM	DESCRIPTION	Inte	rim Primary	Interim Secondary	Co	nnector Road
Α	Project and Program Management (5%)	\$	164.11	\$ 162.96	\$	217.72
	Design and Investigation including Final					
В	Design (10%)	\$	328.22	\$ 325.93	\$	435.43
С	Construction	\$	3,282.20	\$ 3,259.25	\$	4,354.30
	TOTAL A - C	\$	3,774.53	\$ 3,748.14	\$	5,007.45
D	CONTINGENCY					
	Contingency (10% of C)	\$	328.22	\$ 325.93	\$	435.43

Mid-Block Road Length Totals

Road Number	Total Length
RD-53-01A	760
RD-53-01B	1100
RD-53-02	540
RD-53-03A	630
RD-54-01 #	1520
RD-54-02 #	1900
RD-54-03 **	1730
RD-54-04 *	1105
RD-54-05 *	357
RD-54-06 *	497
RD-54-07 *	975
RD-57.1-01	1000
RD-57.1-02	300

* VALUES PROVIDED BY MPA*

**ADDITIONAL 100m ADDED AT

COUNCIL REQUEST FOR

BALLARTO ROAD INTERFACE

NOTES

Ultimate costing assumes no interim works constructed

Cost estimates reflect the construction of a road length of approximately 500m.

CONNECTOR ROAD Connector road is the same in the interim and ultimate

SUBSTATIONS No allowance for substations or undergrounding of the power

Author Harrendran Mohan Date: 16/04/2015



PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS CG130898

28 April 2015 Version 13

Clyde PSP - Road Per Metre

Inte	rim Primary				AM	IOUNT	SU	BTOTAL
ITEM	DESCRIPTION	QUANTITY UNIT RATE			per	linear metre		
Α	Project and Program Management (5%)						\$	164.11
	Project Management		3.00%	0.00%	\$	98.47		
	Project scoping, planning, scheduling, monitoring, reporting and commissioning							
	Management of preconstruction activities, development of tender documents and management of contracts							
	Managing external interfaces, including community liaison, environmental issues, traffic issues etc							
	Records management							
	Program Administration		2.00%	0.00%	\$	65.64		

В	Design and Investigation including Final Design				^	202.00
	(10%)				>	328.22
	Traffic Investigations	0.85%	0.00%	\$ 27.90		
	Cadastral and Engineering Survey	1.20%	0.00%	\$ 39.39		
	Geotechnical investigations Pavement Investigations					
	and Design	1.20%	0.00%	\$ 39.39		
	Environmental Investigations		0.00%	\$ -		
	Landscape Design		0.00%	\$ -		
	Preliminary and Final design Design	4.25%	0.00%	\$ 139.49		
	Construction Management	2.50%	0.00%	\$ 82.06		

С	Construction				\$ 3,282.20	\$ 3,282.20
1	PRELIMINARIES					\$ 234.10
1.1	Site Establishment (2.5% of total constrcution cost)	1.0000	item	\$ 82.10	\$ 82.10	
1.2	Site Management & supervision including QA	0.0160	wks	\$ 2,500.00	\$ 40.00	
1.3	Provision for traffic	0.0020	item	\$ 56,000.00	\$ 112.00	
2	DEMOLITION					\$ 25.00
2.1	Kerb and channel	0.0000	m	\$ 40.00	\$ -	
2.2	Pavement (350mm)	0.0000	m³	\$ 15.00	\$ -	
2.3	Trees	0.0500	item	\$ 500.00	\$ 25.00	
3	EARTHWORKS					\$ 204.00
3.1	Stripping topsoil (100mm)	14.0000	m²	\$ 6.00	\$ 84.00	
3.2	Excavation and Removal	4.0000	m³	\$ 30.00	\$ 120.00	
3.4	Fill,Type A	0.0000	m³		\$ -	
4	PAVEMENT					\$ 1,417.10
4.1	Deep lift asphalt 195 mm	7.0000	m²	\$ 105.00	\$ 735.00	
4.2	Subbase course - 250 mm 3% CTCR	8.0000	m²	\$ 55.00	\$ 440.00	
4.3	Shoulder - Full Depth deep lift Pavement	1.0000	m²	\$ 160.00	\$ 160.00	
4.4						
	Subgrade Improvement (2.5% of total construction cost)	1.0000	item	\$ 82.10	\$ 82.10	
5	DRAINAGE					\$ 295.00
5.1	subsoil drains 100mm dia - screenings	1.0000	m	\$ 30.00	\$ 30.00	
5.2	subsoil drains 100mm dia - no fines conc	1.0000	m	\$ 45.00	\$ 45.00	
5.3	375 RCP (Class 2)	1.0000	m	\$ 170.00	\$ 170.00	
5.4	300 dia cross drain		m	\$ 135.00	\$ -	
5.5	Side entry pits	0.0200	No	\$ 2,500.00	\$ 50.00	
6	CONCRETE WORKS					\$ 273.33
6.1	Kerb &channel	1.0000	m	\$ 50.00	\$ 50.00	
6.3	Bike lane (3.0m wide,125 mm CONC, 75 FCR-					
	Residential, as per MPA)	3.0000	m²	\$ 65.00	\$ 195.00	
6.4	Laybacks and tactile pavers	0.0333	No	\$ 850.00	\$ 28.33	
6.5	Concrete island infill	0.0000	m²		\$ -	



\$

\$

0.10

PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS

CG130898

28 April 2015 **Version 13**

328.22

4,102.75

	Clyde PSP - Road Per Metre							
Inte	rim Primary				Α	MOUNT		SUBTOTAL
ITEM	DESCRIPTION	QUANTITY	UNIT	RATE		per	line	ar metre
7	LANDSCAPING WORKS						\$	17.00
7.1	Topsoiling	2.0000	m²	\$ 8.50	\$	17.00		
8	SIGNING	0.0020	item	\$ 5,000.00	\$	10.00	\$	10.00
9	LINEMARKING (Thermoplastic)	1.0000	m	\$ 5.00	\$	5.00	\$	5.00
10	SERVICE RELOCATION						\$	600.00
10.1	Water, Gas, Telstra (adopted allowance)	0.0020	item	\$ 150,000.00	\$	300.00		
10.1	Overhead electricity (adopted allowance)	0.0020	item	\$ 150,000.00	\$	300.00		
11	LIGHTING						\$	201.67
11.1	light pole relocated		No		\$	-		
11.2	Light pole (1 way) and luminaire	0.0133	No	\$ 8,000.00	\$	106.67		
11.3	Undergrounding and conduiting	0.0020	m	\$ 32,500.00	\$	65.00		
11.4	Electrical connection	0.0020	item	\$ 15,000.00	\$	30.00		
12	MISCELLANEOUS						\$	-
12.1	Driveway crossings		not included		\$	-		
12.2	Conduits		not included		\$	-		
13	PROVISIONAL SUM - DAYWORK		item		\$	-	\$	-
	TOTAL A - C				\$	3,774.53	\$	3,774.53
D	Contingency							

N	10.	TΕ	S

Contingency (10% of C)

Total Estimate per linear metre

PROJECT BUDGET

SERVICES No allowance for sewer

SUBSTATIONS No allowance for substations or undergrounding of the power

No allowance made for 12m service road SERVICE ROAD

PRELIMINARIES based on nominal rates

SUB SOIL DRAIN assume same as kerb and channel

SIDE ENTRY PITS based on 50 m intervals

TACTILE PAVERS assume hazard tgsi's (no directional)

SIGNING nominal rate

LIGHT POLES based on 75m intervals assume all single arm

- 1. Estimate could be reduced by salvaging components of existings road
- 2. Cost estimates reflect the construction of a road length of approximately 500m



28 April 2015 Version 13

Clyde PSP - Road Per Metre

	Olyac For Road For Metre							
Inte	rim Secondary				AMO	TNUC	SUB	TOTAL
ITEM	DESCRIPTION	QUANTITY	UNIT	RATE		per	linear metr	е
Α	Project and Program Management (5%)						\$	162.96
	Project Management		3.00%	0.00%	\$	97.78		
	Project scoping, planning, scheduling, monitoring, reporting and commissioning							
	Management of preconstruction activities, development of tender documents and management of contracts							
	Managing external interfaces, including community liaison, environmental issues, traffic issues etc							
	Records management							
	Program Administration		2.00%	0.00%	\$	65.19		
В	Design and Investigation including Final Design (10%)						\$	325.93

В	Design and Investigation including Final Design				
	(10%)				\$ 325.93
	Traffic Investigations	0.85%	0.00%	\$ 27.70	
	Cadastral and Engineering Survey	1.20%	0.00%	\$ 39.11	
	Geotechnical investigations Pavement Investigations and Design	1.20%	0.00%	\$ 39.11	
	Environmental Investigations		0.00%	\$ -	
	Landscape Design		0.00%	\$ -	
	Preliminary and Final design Design	4.25%	0.00%	\$ 138.52	
	Construction Management	2.50%	0.00%	\$ 81.48	

С	Construction				\$	3,259.25	\$ 3,259.25
1	PRELIMINARIES				_	0,200.20	\$ 233.50
1.1	Site Establishment (2.5% of total constrcution cost)	1.0000	item	\$ 81.50	\$	81.50	
1.2	Site Management & supervision including QA	0.0160	wks	\$ 2,500.00	\$	40.00	
1.3	Provision for traffic	0.0020	item	\$ 56,000.00	\$	112.00	
2	DEMOLITION			•			\$ 25.00
2.1	Kerb and channel	0.0000	m	\$ 40.00	\$	-	
2.2	Pavement (350mm)	0.0000	m³	\$ 15.00	\$	-	
2.3	Trees	0.0500	item	\$ 500.00	\$	25.00	
3	EARTHWORKS						\$ 195.00
3.1	Stripping topsoil (100mm)	12.5000	m²	\$ 6.00	\$	75.00	
3.2	Excavation and Removal	4.0000	m³	\$ 30.00	\$	120.00	
3.4	Fill,Type A	0.0000	m³		\$	-	
4	PAVEMENT						\$ 1,416.50
4.1	Deep lift asphalt 195 mm	7.0000	m²	\$ 105.00	\$	735.00	
4.2	Subbase course - 250 mm 3% CTCR	8.0000	m²	\$ 55.00	\$	440.00	
4.3	Shoulder - Full Depth deep lift Pavement	1.0000	m²	\$ 160.00	\$	160.00	
4.4							
	Subgrade Improvement (2.5% of total construction cost)	1.0000	item	\$ 81.50	\$	81.50	
5	DRAINAGE						\$ 295.00
5.1	subsoil drains 100mm dia - screenings	1.0000	m	\$ 30.00	\$	30.00	
5.2	subsoil drains 100mm dia - no fines conc	1.0000	m	\$ 45.00	\$	45.00	
5.3	375 RCP (Class 2)	1.0000	m	\$ 170.00	\$	170.00	
5.4	300 dia cross drain		m	\$ 135.00	\$	-	
5.5	Side entry pits	0.0200	No	\$ 2,500.00	\$	50.00	
6	CONCRETE WORKS						\$ 273.33
6.1	Kerb &channel	1.0000	m	\$ 50.00	\$	50.00	
6.3	Bike path (3.0m wide,125 mm CONC, 75 FCR-						
	Residential, as per MPA)	3.0000	m²	\$ 65.00	\$	195.00	
6.4	Laybacks and tactile pavers	0.0333	No	\$ 850.00	\$	28.33	
6.5	Concrete island infill	0.0000	m²		\$	-	



Clyde PSP - Road Per Metre

28 April 2015 Version 13

Inte	rim Secondary				A	MOUNT		SUBTOTAL
ITEM	DESCRIPTION	QUANTITY	UNIT	RATE		per	linea	ar metre
7	LANDSCAPING WORKS						\$	4.25
7.1	Topsoiling	0.5000	m²	\$ 8.50	\$	4.25		
8	SIGNING	0.0020	item	\$ 5,000.00	\$	10.00	\$	10.00
9	LINEMARKING (Thermoplastic)	1.0000	m	\$ 5.00	\$	5.00	\$	5.00
10	SERVICE RELOCATION						\$	600.00
10.1	Water, Gas, Telstra (adopted allowance)	0.0020	item	\$ 150,000.00	\$	300.00		
10.1	Overhead electricity (adopted allowance)	0.0020	item	\$ 150,000.00	\$	300.00		
11	LIGHTING						\$	201.67
11.1	light pole relocated		No		\$	-		
11.2	Light pole (1 way) and luminaire	0.0133	No	\$ 8,000.00	\$	106.67		
11.3	Undergrounding and conduiting	0.0020	m	\$ 32,500.00	\$	65.00		
11.4	Electrical connection	0.0020	item	\$ 15,000.00	\$	30.00		
12	MISCELLANEOUS						\$	-
12.1	Driveway crossings		not included		\$	-		
12.2	Conduits		not included		\$	-		
13	PROVISIONAL SUM - DAYWORK		item		\$	-	\$	-
	TOTAL A - C				\$	3,748.14	\$	3,748.14
	TOTAL A - 0				Ψ	3,740.14	Ψ	3,740.14
D	Contingency							
	Contingency (10% of C)					0.10	\$	325.93
	PRO IFOT BURGET							
Е	PROJECT BUDGET						Φ.	4.074.00
	Total Estimate per linear metre						\$	4,074.06

NOTES

SERVICES No allowance for sewer

SUBSTATIONS No allowance for substations or undergrounding of the power

SERVICE ROAD No allowance made for 13m service road

PRELIMINARIES based on nominal rates

SUB SOIL DRAIN assume same as kerb and channel

SIDE ENTRY PITS based on 50 m intervals

TACTILE PAVERS assume hazard tgsi's (no directional)

SIGNING nominal rate

LIGHT POLES based on 75m intervals assume all single arm

Note

1. Estimate could be reduced by salvaging components of existings road

2. Cost estimates reflect the construction of a road length of approximately 500m

6.4

6.5

Laybacks and tactile pavers

Concrete island infill



PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS CG130898

28 April 2015 Version 13

Clyde PSP - Road Per Metre

	Clyde PSP - Road Per Metre							
Col	nnector Road					AMOUNT	5	SUBTOTAL
ITEM	DESCRIPTION	QUANTITY	UNIT	RATE		per li	near r	netre
Α	Project and Program Management (5%)						\$	217.72
	Project Management		3.00%	0.00%	\$	130.63	Ţ	
	Project scoping, planning, scheduling, monitoring, reporting and commissioning			0.007,0				
	Management of preconstruction activities, development of tender documents and management of contracts							
	Managing external interfaces, including community liaison, environmental issues, traffic issues etc							
	Records management							
	Program Administration		2.00%	0.00%	\$	87.09		
В	Design and Investigation including Final Design (10%)						\$	435.43
	Traffic Investigations		0.85%	0.00%	\$	37.01	Ψ	400.40
	Cadastral and Engineering Survey		1.20%	0.00%	\$	52.25		
	5 5 7		1.20%	0.00%	Ψ	52.25		
	Geotechnical investigations Pavement Investigations		1.20%	0.00%	ď	EO 05		
	and Design		1.20%		\$	52.25		
	Environmental Investigations			0.00%	\$	-		
	Landscape Design		4.050/	0.00%	\$	105.00		
	Preliminary and Final design Design		4.25%	0.00%	\$	185.06		
	Construction Management		2.50%	0.00%	\$	108.86		
С	Construction				\$	4,354.30	\$	4,354.30
1	PRELIMINARIES						\$	219.00
1.1	Site Establishment	1.0000	item	\$ 109.00	\$	109.00		
1.2	Site Management & supervision including QA	0.0160	wks	\$ 2,500.00	\$	40.00		
1.3	Provision for traffic	0.0020	item	\$ 35,000.00	\$	70.00		
2	DEMOLITION						\$	25.00
2.1	Kerb and channel	0.0000	m	\$ 40.00	\$	-		
2.2	Pavement (350mm)	0.0000	m³	\$ 15.00	\$	-		
2.3	Trees	0.0500	item	\$ 500.00	\$	25.00		
3	EARTHWORKS						\$	339.00
3.1	Stripping topsoil (100mm)	23.5000	m²	\$ 6.00	\$	141.00		
3.2	Excavation and Removal	6.6000	m³	\$ 30.00	\$	198.00		
3.4	Fill,Type A	0.0000	m³		\$	-		
4	PAVEMENT						\$	2,011.00
4.1	Deep lift asphalt 195 mm	11.2000	m²	\$ 105.00	\$	1,176.00		
4.2	Subbase course - 250 mm 3% CTCR	13.2000	m²	\$ 55.00	_	726.00		
4.3	Shoulder - Full Depth deep lift Pavement	0.0000	m²	\$ 160.00		-		
4.4	Subgrade Improvement (2.5% of total construction cost)	1.0000	item	\$ 109.00		109.00		
5	DRAINAGE						\$	365.80
5.1	subsoil drains 100mm dia - screenings	2.0000	m	\$ 30.00	\$	60.00		
5.2	subsoil drains 100mm dia - no fines conc	0.0000	m	\$ 45.00	\$	-		
5.3	375 RCP (Class 2)	1.0200	m	\$ 170.00	\$	173.40		
5.4	300 dia cross drain	0.2400	m	\$ 135.00	_	32.40		
5.5	Side entry pits	0.0400	No	\$ 2,500.00	\$	100.00		
6	CONCRETE WORKS						\$	518.33
6.1	Kerb &channel	2.0000	m	\$ 50.00	\$	100.00		
6.2	Footpaths (1.5*2m wide,125 mmCONC ,75 FCR, - Residential, as per MPA)	3.0000	m²	\$ 65.00		195.00		
6.3	Bike lane (3.0m wide,125 mm CONC, 75 FCR-Residential, as per MPA)	3.0000	m²	\$ 65.00	\$	195.00		
6.4	Laybacks and tactile payers	0.0222	No	¢ 950.00	_	20.22		

0.0333

0.0000

\$

No

 ${\rm m^2}$

850.00 \$

\$

28.33



28 April 2015

PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS CG130898

Version 13
Clyde PSP - Road Per Metre

_	oryae i or incad i or mone						Т	
Cor	nector Road					AMOUNT		SUBTOTAL
ITEM	DESCRIPTION	QUANTITY	UNIT	RATE		per li	neai	r metre
7	LANDSCAPING WORKS						\$	59.50
7.1	Topsoiling	7.0000	m²	\$ 8	3.50	\$ 59.50		
8	SIGNING	0.0020	item	\$ 5,000	0.00	\$ 10.00	\$	10.00
9	LINEMARKING (Thermoplastic)	1.0000	m	\$ 5	5.00	\$ 5.00	\$	5.00
10	SERVICE RELOCATION						\$	600.00
10.1	Water, Gas, Telstra (adopted allowance)	0.0020	item	\$ 150,000	0.00	\$ 300.00		
10.1	Overhead electricity (adopted allowance)	0.0020	item	\$ 150,000	0.00	\$ 300.00		
11	LIGHTING						\$	201.67
11.1	light pole relocated		No			\$ -		
11.2	Light pole (1 way) and luminaire	0.0133	No	\$ 8,000	0.00	\$ 106.67		
11.3	Undergrounding and conduiting	0.0020	m	\$ 32,500	0.00	\$ 65.00		
11.4	Electrical connection	0.0020	item	\$ 15,000	0.00	\$ 30.00		
12	MISCELLANEOUS						\$	-
12.1	Driveway crossings		not included			\$ -		
12.2	Conduits		not included			\$ -		
13	PROVISIONAL SUM - DAYWORK		item			\$ -	\$	-
	TOTAL A - C					\$ 5,007.45	\$	5,007.45
D	Contingency							
	Contingency (10% of C)					0.10	\$	435.43
Е	PROJECT BUDGET							
	Total Estimate per linear metre						\$	5,442.88
-	•			-				

NOTES

SERVICES No allowance for sewer

SUBSTATIONS No allowance for substations or undergrounding of the power

PAVEMENT Parking bays have same pavement

Without frequency or stds we ave allowed to run pavement through to provide a

Planting in parking bays concervative estimate
PRELIMINARIES based on nominal rates

SUB SOIL DRAIN assume same as kerb and channel

SIDE ENTRY PITS based on 50 m intervals - drainage has cross road drains at pits

TACTILE PAVERS assume hazard tgsi's (no directional)

SIGNING nominal rate

LIGHT POLES based on 75m intervals assume all single arm

Note:

1. Cost estimates reflect the construction of a road length of approximately 500m



7.7 Interim culvert costings



CULVERT / BRIDGE CROSSINGS PER LINEAR METER SUMMARY SHEET CG130898 Clyde PSP 24 August 2015

L+ August L	.010										
Version 8											
	DESCRIPTION										
ITEM	Culvert No.	BR-5	3-01	BR-	53-02	BR-53-03	BR-53-04	BR-6	54-01	BR-	54-04
	Drawing No./issue	CG13089	8C57-P2	CG1308	98C58-P2	CG130898C59-P2	CG130898C66-P1	CG13089	98C56-P2	CG1308	98C64-P1
	Melbourne Water No.	MW-	002	MW	-003	MW-004	MW-005	MW-007		MW-010	
		Partial works Total Cost	Cost Per Meter	Partial works Total Cost	Cost Per Meter	Total Cost (Complete Culvert Construction)	Total Cost (Complete Culvert Construction)	Partial works Total Cost	Cost Per Meter	Partial works Total Cost	Cost Per Meter
A	Project and Program Management	\$ 7,489	\$ 163		\$ 189			\$ 21,523	\$ 384		\$ 361
В	Design and Investigation	\$ 14,977	\$ 326	\$ 16,257	\$ 378	\$ 40,446	\$ 40,235	\$ 43,047	\$ 769	\$ 25,254	\$ 722
С	Construction including Final Design	\$ 111,686	\$ 2,536	\$ 121,955	\$ 2,919	\$ 347,470	\$ 350,170	\$ 373,021	\$ 7,133	\$ 201,224	\$ 5,638
	TOTAL A - C	\$ 134,152	\$ 3,025	\$ 146,340	\$ 3,486	\$ 408,138	\$ 410,522	\$ 437,591	\$ 8,286	\$ 239,104	\$ 6,721
D	CONTINGENCY										
	Contingency	\$ 26,830	\$ 605	\$ 29,268	\$ 697	\$ 81,628	\$ 82,104	\$ 87,518	\$ 1,657	\$ 47,821	\$ 1,344
E	PROJECT BUDGET										
	Total Estimate	\$ 160,983	\$ 3,629	\$ 175,608	\$ 4,183	\$ 489,766	\$ 492,626	\$ 525,109	\$ 9,944	\$ 286,925	\$ 8,065
							1950dia				
		1500	dia.	165	0dia	1950dia		2x210	00dia.	3x13	50dia.

Notes: Services

Service relocation / alterations have not been allowed for in the estimate
 Preliminaries

2 Based on nominal rates and 30% of total drainage line

Demolition

 No allowance has been included for site demolition (ie: tree removal)
 Construction

4 No allowance has been included for end walls

 Construction to take place aside existing road prior to road extension

Installation of culverts to be done prior or during road fill works

8 Regrading of creek not included

AUTHOR: Kim Dinh Date: 24/08/2015

REVIEWER: Rob Henry

Date: 24/08/2015

24/08/2015

Page 1



CULVERT / BRIDGE CROSSINGS PER LINEAR METER SUMMARY SHEET CG130898 Clyde PSP 24 August 2015

L+ August I	2010																		
Version 8		_																	
	DESCRIPTION																		
ITEM	Culvert No.		BR-	54-05		BR-5	54-07		BR-	54-1 1	1	BR-	54-14	BR-	54-15		BR-5	4-16	
	Drawing No./issue		CG1308	98C65	5-P1	CG13089	98C62-P1		CG1308	98C5	55-P2	CG1308	98C52-P2	CG1308	98C51	I-P2	CG13089	8C52-F	2
	Melbourne Water No.		MW	<i>l</i> -011		MW	-013	Т	MW	-019	•	MW	/-024	MW	<i>I</i> -027		MW-	024	
			tial works otal Cost	Cost	t Per Meter	rtial works otal Cost	Cost Per Mete	r I	Partial works Total Cost	Cos	st Per Meter	artial works Total Cost	Cost Per Meter	Partial works Total Cost	Co	st Per Meter	Partial works Total Cost	Cost	Per Meter
Α	Project and Program Management	\$	15,792	\$	322	\$ 14,716	\$ 368	3 \$	20,591	\$	429	\$ 12,647	\$ 294	\$ 7,748	\$	149	\$ 18,954	\$	431
В	Design and Investigation	\$	31,584	\$	645	\$ 29,432	\$ 730	\$	41,182	\$	858	\$ 25,293	\$ 588	\$ 15,496	\$	298	\$ 37,907	\$	862
С	Construction including Final Design	\$	246,559	\$	5,179	\$ 240,656	\$ 5,990) \$	310,102	\$	6,641	\$ 190,463	\$ 4,499	\$ 116,077	\$	2,451	\$ 285,447	\$	6,571
								Т											
	TOTAL A - C	\$	293,935	\$	6,146	\$ 284,804	\$ 7,094	1 5	371,875	\$	7,928	\$ 228,403	\$ 5,382	\$ 139,321	\$	2,898	\$ 342,308	\$	7,863
D	CONTINGENCY																		
	Contingency	\$	58,787	\$	1,229	\$ 56,961	\$ 1,419	9	74,375	\$	1,586	\$ 45,681	\$ 1,076	\$ 27,864	\$	580	\$ 102,692	\$	2,359
E	PROJECT BUDGET																		
	Total Estimate	\$	352,722	\$	7,375	\$ 341,765	\$ 8,51	2 \$	446,250	\$	9,514	\$ 274,083	\$ 6,458	\$ 167,185	\$	3,477	\$ 445,001	\$	10,222
			3x90	00dia.		3x150	00dia.		2x21	00dia	a.	2x15	00dia.	900) dia.		2x210	0dia.	

Notes: Services

 Service relocation / alterations have not been allowed for in the estimate
 Preliminaries

2 Based on nominal rates and 30% of total drainage line

Demolition

 No allowance has been included for site demolition (ie: tree removal)
 Construction

4 No allowance has been included for end walls and pits

 Construction to take place aside existing road prior to road extension

7 Installation of culverts to be done prior or during road fill works

8 Regrading of creek not included

AUTHOR: Kim Dinh Date: 24/08/2015

REVIEWER: Rob Henry Date: 24/08/2015

24/08/2015

Page 2



PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS

CG130898

MW-002 Culvert Length, m: 46 BR-53-01, Partial Cost PM %: 13.41% 24 August 2015 Version 8

DK-53-	01, Partial Cost	PIVI %:	13.41%							ICIEK		
ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	1	TNUOMA	SU	IBTOTAL		RATE		TOTAL
Α	Project and Program Management						\$	7,489			\$	163
	Project Management		3.00%	4.02%	\$	4,493			\$	97.68		
	reporting and commissioning											
	of tender documents and management of contracts											
	liaison, environmental issues, traffic issues etc											
	Records management											
	Program Administration		2.00%	2.68%	\$	2,995			\$	65.12		
В	Design and Investigation						\$	14,977			\$	326
	Traffic Investigations		0.85%	1.14%	\$	1,273	Ť	,	\$	27.68	_	
	Cadastral and Engineering Survey		1.20%	1.61%	\$	1,797			\$	39.07		
	Geotechnical investigations Pavement Investigations		1,2070	,	Ť	1,101				00.01		
	and Design		1.20%	1.61%	\$	1,797			\$	39.07		
	Environmental Investigations			0.00%	\$	-			\$	<u>-</u>		
	Landscape Design			0.00%	\$	-			\$	<u>-</u>		
	Preliminary and Final Design		4.25%	5.70%	\$	6,365			\$	138.38		
	Construction Management		2.50%	3.35%	\$	3,744			\$	81.40		
С	Construction including Final Design				\$	111,686	\$	111,686			\$	2,536
1	PRELIMINARIES						\$	14,240	\$	-	\$	310
1.1	Site Establishment	1	item	\$ 1,700.00	\$	1,700			\$	36.96		
1.2	Site Management & supervision including QA	3	wks	\$ 840.00	\$	2,520			\$	54.78		
1.3	Provision for traffic	3	wks	\$ 3,340.00	\$	10,020			\$	217.83		
2	EARTHWORKS						\$	22,577			\$	609
2.1	Stripping topsoil (100mm)	106	m²	\$ 6.00	\$	635			\$	60.00		
2.2	Excavation and Removal	731	m³	\$ 30.00	\$	21,942			\$	548.55		
3	DRAINAGE, PIPES AND CULVERTS						\$	74,870			\$	1,618
3.1	1500dia. RCP pipe, supply and lay	46	Lm	\$ 1,100.00	\$	50,600			\$	1,100.00		
3.2	150mm thick Class 2 CR under pipe	106	m²	\$ 12.00	\$	1,270			\$	18.00		
3.3	Backfill and compact FCR to trench	46	Lm	\$ 500.00	\$	23,000			\$	500.00		
4	MISCELLANEOUS						\$	-				
	TOTAL A - C				\$	134,152	\$	134,152	\$	3,025	\$	3,025
	IOTALA				Ψ	104,102	Ψ	104,102	Ψ	3,023	Ψ	3,023
D	Contingency											
	Contingency (20% of C)					20%	\$	26,830		20%	\$	605
E	PROJECT BUDGET											
	Total Estimate						\$	160,983			\$	3,629

Notes: Services

Service relocation / alterations have not been allowed for in the estimate

Preliminaries

2 Based on nominal rates and 30% of total drainage line

Demolition

3 We have only allowed to demolish the items shown above

Construction

- 4 No allowance has been included for end walls and pits
- 5 No allowance has been included for safety fencing
- 6 Construction to take place aside existing road prior to road extension
- 7 Installation of culverts to be done prior or during road fill works
- 8 Regrading of creek not included

AUTHOR: Kim Dinh Date: 24/08/2015



CG130898

24 August 2015 Version 8

Cul	vert Length, m: 4	43										
	•									METER		
DESCRIPTION	QUANTITY	UNIT		RATE	Α	MOUNT	SU	BTOTAL		RATE	$\overline{}$	TOTAL
Project and Program Management							\$	8,128			\$	189
Project Management		3.00%		4.00%	\$	4,877			\$	113.42		
reporting and commissioning										,		
of tender documents and management of contracts												
liaison, environmental issues, traffic issues etc												
Records management												
Program Administration		2.00%		2.67%	\$	3,251			\$	75.61		
Design and Investigation							l ¢	16 257			¢	378
		0.85%		1 120/	•	1 382	Ψ	10,237	9	32.14	Ψ	310
					_							
		1.20%		1.00%	φ	1,931			Φ	40.01		
and Design		1.20%		1.60%	\$	1,951			\$	45.37		
Environmental Investigations				0.00%	\$	-			\$	<u>-</u>		
Landscape Design				0.00%	\$	-			\$	<u>-</u>		
		4.25%		5.67%	\$	6,909			\$	160.68		
Construction Management		2.50%		3.33%	\$	4,064			\$	94.52		
									,,,,,,,		· ·	
					\$	121,955						2,919
-							\$	14,240		-	\$	331
			_						_			
			_		_				_			
	3	wks	\$	3,340.00	\$	10,020			\$	233.02		
							\$	29,025			\$	770
			_		_				_			
100000000000000000000000000000000000000	946	m³	\$	30.00	\$	28,380			\$	709.50		
							\$	78,690			\$	1,818
	-	Lm	\$		-					,		
			_		_							
· · · · · · · · · · · · · · · · · · ·	43	Lm	\$	500.00	\$	21,500			\$	500.00		
MISCELLANEOUS							\$	-				
TOTAL A - C					•	146 340	¢	146 340	•	3 496	¢	3,486
TOTAL A-0					Ψ	140,340	Ψ	140,340	Ψ	3,400	Ψ	3,400
Contingency												
Contingency (20% of C)						20%	\$	29,268		20%	\$	697
PROJECT BUDGET												
	DESCRIPTION Project and Program Management Project Management reporting and commissioning of tender documents and management of contracts liaison, environmental issues, traffic issues etc Records management Program Administration Design and Investigation Traffic Investigations Cadastral and Engineering Survey Geotechnical investigations Pavement Investigations and Design Environmental Investigations Landscape Design Preliminary and Final Design Construction Management Construction Management Construction including Final Design PRELIMINARIES Site Establishment Site Management & supervision including QA Provision for traffic EARTHWORKS Stripping topsoil (100mm) Excavation and Removal DRAINAGE, PIPES AND CULVERTS 1650dia. RCP pipe, supply and lay 150mm thick Class 2 CR under pipe Backfill and compact FCR to trench MISCELLANEOUS	DESCRIPTION Project and Program Management Project Management reporting and commissioning of tender documents and management of contracts liaison, environmental issues, traffic issues etc Records management Program Administration Design and Investigation Traffic Investigations Cadastral and Engineering Survey Geotechnical investigations Pavement Investigations and Design Environmental Investigations Landscape Design Preliminary and Final Design Construction Management Construction Management Construction including Final Design PRELIMINARIES Site Establishment Site Management & supervision including QA 3 Provision for traffic EARTHWORKS Stripping topsoil (100mm) Excavation and Removal DRAINAGE, PIPES AND CULVERTS 1650dia. RCP pipe, supply and lay 150mm thick Class 2 CR under pipe 108 Backfill and compact FCR to trench 43 MISCELLANEOUS	DESCRIPTION Project and Program Management Project Management Project Management reporting and commissioning of tender documents and management of contracts liaison, environmental issues, traffic issues etc Records management Program Administration Design and Investigation Traffic Investigations Traffic Investigations Pavement Investigations and Design Environmental Investigations Landscape Design Preliminary and Final Design Preliminary and Final Design PRELIMINARIES Site Establishment Site Management & supervision including QA Traffic Management & supervision including QA Traffic Revardance Stripping topsoil (100mm) Excavation and Removal DRAINAGE, PIPES AND CULVERTS Backfill and compact FCR to trench MISCELLANEOUS TOTAL A - C Contingency	DESCRIPTION Project and Program Management Project Management Project Management reporting and commissioning of tender documents and management of contracts liaison, environmental issues, traffic issues etc Records management Program Administration Design and Investigation Traffic Investigations Cadastral and Engineering Survey Geotechnical investigations Pavement Investigations and Design Environmental Investigations Landscape Design Preliminary and Final Design Preliminary and Final Design Construction Management Construction Including Final Design PRELIMINARIES Site Establishment Site Management & supervision including QA 3 wks Provision for traffic Stripping topsoil (100mm) 108 m² \$ Excavation and Removal 946 m³ \$ DRAINAGE, PIPES AND CULVERTS 150mt Including Final Pipe 108 m² \$ Backfill and compact FCR to trench 43 Lm \$ MISCELLANEOUS	DESCRIPTION QUANTITY UNIT RATE	DESCRIPTION	DESCRIPTION QUANTITY UNIT RATE AMOUNT	DESCRIPTION QUANTITY UNIT RATE AMOUNT SU	DESCRIPTION QUANTITY UNIT RATE AMOUNT SUBTOTAL Project and Program Management \$ 8,128	DESCRIPTION QUANTITY RATE AMOUNT SUBTOTAL Project and Program Management \$ 8,128 Project Management \$ 8,128 Project Management \$ 8,128 Project Management \$ 8,128 Project Management \$ 8,128 Project Management \$ 8,128 Project Management \$ 8,128 Project Management \$ 8,128 Project Management \$ 8,128 Project Management \$ 8,128 Project Management \$ 8,128 Project Management \$ 8,128 Project Management \$ 8,128 Project Management \$ 8,128 Project Management \$ 8,128 Project Management \$ 8,125 Project Management \$ 8,125 Project Management \$ 8,125 Project Management \$ 8,125 Project Management \$ 8,125 Project Management \$ 8,125 Project Management \$ 8,125 Project Management \$ 1,20% 1,60% Project Management \$ 1,20% 1,60% Project Management \$ 1,20% 1,60% Project Management \$ 1,20% Pro	PM % 13.33% METER	DESCRIPTION QUANTITY UNIT RATE AMOUNT SUBTOTAL S 8,128 S 13,422 S 113,422 S 113,422 S S 113,422 S S S S S S S S S

Notes: Services

Service relocation / alterations have not been allowed for in the estimate

Preliminaries

2 Based on nominal rates and 30% of total drainage line

Demolition

3 We have only allowed to demolish the items shown above

Construction

- 4 No allowance has been included for end walls and pits
- 5 No allowance has been included for safety fencing
- 6 Construction to take place aside existing road prior to road extension
- 7 Installation of culverts to be done prior or during road fill works
- 8 Regrading of creek not included

AUTHOR: Kim Dinh Date: 24/08/2015



CG130898

24 August 2015 Version 8

MW-004 Culvert Length, m: 45

BR-53-	03, Total Cost	PM %: 1	11.64%					
ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	Al	MOUNT	SU	BTOTAL
Α	Project and Program Management						\$	20,223
	Project Management		3.00%	3.49%	\$	12,134		
	reporting and commissioning							
	of tender documents and management of contracts							
	liaison, environmental issues, traffic issues etc							
	Records management							
	Program Administration		2.00%	2.33%	\$	8,089		
В	Design and Investigation						\$	40,446
	Traffic Investigations		0.85%	0.99%	\$	3,438		
	Cadastral and Engineering Survey		1 20%	1.40%	Q Q	1 253		

В	Design and Investigation				\$ 40,446
	Traffic Investigations	0.85%	0.99%	\$ 3,438	
	Cadastral and Engineering Survey	1.20%	1.40%	\$ 4,853	
	Geotechnical investigations Pavement Investigations and Design	1.20%	1.40%	\$ 4,853	
	Environmental Investigations		0.00%	\$ -	
	Landscape Design		0.00%	\$ -	
	Preliminary and Final Design	4.25%	4.95%	\$ 17,189	
	Construction Management	2.50%	2.91%	\$ 10,111	

С	Construction including Final Design					\$	347,470	\$	347,470
1	PRELIMINARIES			П				\$	97,800
1.1	Site Establishment	1	item	\$	8,000.00	\$	8,000		
1.2	Site Management & supervision including QA	8	wks	\$	850.00	\$	6,800		
1.3	Provision for traffic	8	wks	\$	6,000.00	\$	48,000		
1.4	Diversion Works including: setup of bypass lines and								
	pump system, installation of temporary 150dia PVC								
	pipes and installation of bund walls at extent culvert				05 000 00	_	05.000		
_	works	1	item	\$	35,000.00	\$	35,000	_	
2	DEMOLITION			-				\$	36,750
2.1	Trees	1	Item	\$	2,000	\$	2,000		
2.2	Fence removal	1	Item	\$	1,000	\$	1,000		
2.3	Excavation and removal of existing culvert	1	Item	\$	33,750	\$	33,750		
2	EARTHWORKS							\$	32,400
2.1	Stripping topsoil (100mm)	450	m²	\$	6.00	\$	2,700		
2.2	Excavation and Removal	990	m³	\$	30.00	\$	29,700		
3	DRAINAGE, PIPES AND CULVERTS							\$	161,120
3.1	1950dia. RCP pipe, supply and lay	45	Lm	\$	1,800.00	\$	81,000		
3.2	150mm thick Class 2 CR under pipe	135	m²	\$	12.00	\$	1,620		
3.3	Backfill and compact FCR to trench	45	Lm	\$	500.00	\$	22,500		
3.4	Humes precast endwall or equivalent	2	No.	\$	20,000.00	\$	40,000		
3.5	Rock beaching at ends of culvert	160	m²	\$	100.00	\$	16,000		
4	MISCELLANEOUS							\$	19,400
4.1	Safety works under power lines(spotter)	2	weeks	\$	3,400.00	\$	6,800		
4.2	Installation of crash barrier	70	Lm	\$	180.00	\$	12,600		

	TOTAL A - O		Ψ	400,130	Ψ	400,130
_						
D	Contingency					
	Contingency (20% of C)			20%	S	81 628

E	PROJECT BUDGET			
	Total Estimate			\$ 489,766

Notes: Services

Service relocation / alterations have not been allowed for in the estimate

Preliminaries

2 Based on nominal rates and 30% of total drainage line

Demolition

TOTAL A C

 ${\bf 3}$ $\,$ We have only allowed to demolish the items shown above

Construction

- 4 Construction to take place aside existing road prior to road extension
- 5 Installation of culverts to be done prior or during road fill works
- 6 Regrading of creek not included

AUTHOR: Kim Dinh Date: 24/08/2015



CG130898 MW-005

Culvert Length, m: 45

24 August 2015 Version 8

BR-53-	04, Total Cost	PM %:	11.49%					
ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	A	MOUNT		SUBTOTAL
Α	Project and Program Management						\$	20,117
	Project Management		3.00%	3.45%	\$	12,070		
	reporting and commissioning							
	of tender documents and management of contracts							
	liaison, environmental issues, traffic issues etc							
	Records management							
	Program Administration		2.00%	2.30%	\$	8,047		
В	Design and Investigation						\$	40,235
	Traffic Investigations		0.85%	0.98%	\$	3,420	Ψ	40,233
	Cadastral and Engineering Survey		1.20%	1.38%	\$	4,828		
	Geotechnical investigations Pavement Investigations and		1.20/6	1.30 /6	Φ	4,020		
	Design		1.20%	1.38%	\$	4,828		
	Environmental Investigations		1.20/6	0.00%	\$	4,020		
	Landscape Design			0.00%	\$			
	Preliminary and Final Design		4.25%	4.88%	\$	17,100		
	Construction Management				\$			
	Construction Management		2.50%	2.87%	ф	10,059		
С	Construction including Final Design				\$	350,170	\$	350,170
1	PRELIMINARIES						\$	97,800
1.1	Site Establishment	1	item	\$ 8,000.00	\$	8,000		
1.2	Site Management & supervision including QA	8	wks	\$ 850.00	\$	6,800		
1.3	Provision for traffic	8	wks	\$ 6,000.00	\$	48,000		
1.4	Diversion Works including: setup of bypass lines and					,		
	pump system, installation of temporary 150dia PVC							
	pipes and installation of bund walls at extent culvert							
	works	1	item	\$ 35,000.00	\$	35,000		
2	DEMOLITION						\$	36,750
2.1	Trees	1	Item	\$ 2,000	\$	2,000		
2.2	Fence removal	1	Item	\$ 1,000	\$	1,000		
2.3	Excavation and removal of existing culvert	1	Item	\$ 33,750	\$	33,750		
2	EARTHWORKS			·			\$	35,100
2.1	Stripping topsoil (100mm)	450	m²	\$ 6.00	\$	2,700		
2.2	Excavation and Removal	1,080	m³	\$ 30.00	\$	32,400		
3	DRAINAGE, PIPES AND CULVERTS						\$	161,120
3.1	1950dia. RCP pipe, supply and lay	45	Lm	\$ 1,800.00	\$	81,000		
3.2	150mm thick Class 2 CR under pipe	135	m²	\$ 12.00	\$	1,620		
3.3	Backfill and compact FCR to trench	45	Lm	\$ 500.00	\$	22,500		
3.4	Humes precast endwall or equivalent	2	No.	\$ 20,000.00	\$	40,000		
3.5	Rock beaching at ends of culvert	160	m²	\$ 100.00	\$	16,000		
4	MISCELLANEOUS						\$	19,400
4.1	Safety works under power lines(spotter)	2	weeks	\$ 3,400.00	\$	6,800		
4.2	Installation of crash barrier	70	Lm	\$ 180.00	\$	12,600		
	TOTAL A - C				\$	410,522	\$	410,522
D	Continuous							
ט	Contingency (20% of C)					200/	•	00.404
	Contingency (20% of C)					20%	\$	82,104
E	PROJECT BUDGET							
	Total Estimate						\$	492,626
					_			

Notes: Services

Service relocation / alterations have not been allowed for in the estimate

Preliminaries

2 Based on nominal rates and 30% of total drainage line

Demolition

3 We have only allowed to demolish the items shown above

Construction

- 4 Construction to take place aside existing road prior to road extension
- 5 Installation of culverts to be done prior or during road fill works
- 6 Regrading of creek not included

AUTHOR: Kim Dinh Date: 24/08/2015



CG130898

24 August 2015 Version 8

MW-007		vert Length, m: {	56					version
BR-54-	01, Partial Cost	PM %:					METER	
ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	AMOUNT	SUBTOTAL	RATE	TOTAL
Α	Project and Program Management				i de la companya de la companya de la companya de la companya de la companya de la companya de la companya de	\$ 21,523		\$ 384
	Project Management		3.00%	3.46%	\$ 12,914		\$ 230.61	
	reporting and commissioning						•	
	of tender documents and management of contracts							
	liaison, environmental issues, traffic issues etc							
	Records management							
	Program Administration		2.00%	2.31%	\$ 8,609		\$ 153.74	
В	Design and Investigation					\$ 43,047		\$ 769
	Traffic Investigations		0.85%	0.98%	\$ 3,659		\$ 65.34	V 100
	Cadastral and Engineering Survey		1.20%	1.38%	\$ 5,166		\$ 92.24	
	Geotechnical investigations Pavement Investigations							
	and Design		1.20%	1.38%	\$ 5,166		\$ 92.24	
	Environmental Investigations			0.00%	\$ -		\$ -	
	Landscape Design			0.00%	\$ -		\$ -	
	Preliminary and Final Design		4.25%	4.90%	\$ 18,295		\$ 326.69	
	Construction Management		2.50%	2.89%	\$ 10,762		\$ 192.17	
С	Construction including Final Design				\$ 373,021	\$ 373,021		\$ 7,133
1	PRELIMINARIES					\$ 14,240	\$ -	\$ 254
1.1	Site Establishment	1	item	\$ 1,700.00	\$ 1,700		\$ 30.36	
1.2	Site Management & supervision including QA	3	wks	\$ 840.00	\$ 2,520		\$ 45.00	
1.3	Provision for traffic	3	wks	\$ 3,340.00	\$ 10,020		\$ 178.93	
2	EARTHWORKS					\$ 69,754		\$ 1,761
2.1	Stripping topsoil (100mm)	286	m²	\$ 6.00	\$ 1,714		\$ 60.00	
2.2	Excavation and Removal	2,268	m³	\$ 30.00	\$ 68,040		\$ 1,701.00	
3	DRAINAGE, PIPES AND CULVERTS					\$ 289,027		\$ 5,118
3.1	2x2100dia. RCP pipe, supply and lay	112	Lm	\$ 2,050.00	\$ 229,600		\$ 4,100.00	
3.2	150mm thick Class 2 CR under pipe	286	m²	\$ 12.00	\$ 3,427		\$ 18.00	
3.3	Backfill and compact FCR to trench	112	Lm	\$ 500.00	\$ 56,000		\$ 1,000.00	
4	MISCELLANEOUS					\$ -		
	TOTAL A - C				\$ 437,591	\$ 437,591	\$ 8,286	\$ 8,286
	TOTALATO				φ 437,391	\$ 437,591	φ 0,200	\$ 0,200
D	Contingency							
	Contingency (20% of C)				20%	\$ 87,518	20%	\$ 1,657
Е	PROJECT BUDGET							
	Total Estimate					\$ 525,109		\$ 9,944

Notes:

Services

1 Service relocation / alterations have not been allowed for in the estimate

Preliminaries

2 Based on nominal rates and 30% of total drainage line

Demolition

3 We have only allowed to demolish the items shown above

Construction

- 4 No allowance has been included for end walls and pits
- 5 No allowance has been included for safety fencing
- 6 Construction to take place aside existing road prior to road extension
- Installation of culverts to be done prior or during road fill works
- 8 Regrading of creek not included

AUTHOR: Kim Dinh Date: 24/08/2015

REVIEWER: Rob Henry



PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS

CG130898 MW-010

Culvert Length, m: 35 PM %: 12.55% 24 August 2015 Version 8

BR-54-	04, Partial Cost	PM %: 1	2.55%						N	IETER		
ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	A	MOUNT	SU	BTOTAL		RATE		TOTAL
Α	Project and Program Management						\$	12,627			\$	361
	Project Management		3.00%	3.77%	\$	7,576			\$	216.46		
	reporting and commissioning									·		
	of tender documents and management of contracts											
	liaison, environmental issues, traffic issues etc											
	Records management											
	Program Administration		2.00%	2.51%	\$	5,051			\$	144.31		
В	Design and Investigation						\$	25,254			\$	722
	Traffic Investigations		0.85%	1.07%	\$	2,147	Ψ	23,234	\$	61.33	Ψ	122
	Cadastral and Engineering Survey		1.20%	1.51%	\$	3,030			\$	86.58		
	Geotechnical investigations Pavement Investigations		1.20%	1.01%	Φ	3,030			φ	60.36		
	and Design		1.20%	1.51%	\$	3,030			\$	86.58		
	Environmental Investigations		1.2076	 0.00%	\$	- 3,030			\$	00.00		
	Landscape Design			 0.00%	\$				\$			
	Preliminary and Final Design		4.25%	 5.33%	\$	10,733			\$	306.65		
	Construction Management		2.50%	3.14%	\$	6,313			\$	180.38		
	Oonstruction Management		2.3076	3.1476	Ψ	0,313			Ψ//	100.30		
С	Construction including Final Design				\$	201,224	\$	201,224			\$//	5,638
1	PRELIMINARIES						\$	14,240	\$	-	\$	407
1.1	Site Establishment	1	item	\$ 1,700.00	\$	1,700			\$	48.57		
1.2	Site Management & supervision including QA	3	wks	\$ 840.00	\$	2,520			\$	72.00		
1.3	Provision for traffic	3	wks	\$ 3,340.00	\$	10,020			\$	286.29		
2	EARTHWORKS						\$	27,258			\$	714
2.1	Stripping topsoil (100mm)	186	m²	\$ 6.00	\$	1,113			\$	60.00		
2.2	Excavation and Removal	872	m³	\$ 30.00	\$	26,145			\$	653.63		
3	DRAINAGE, PIPES AND CULVERTS						\$	159,726			\$	4,518
3.1	3x1350dia. RCP pipe, supply and lay	105	Lm	\$ 1,000.00	\$	105,000			\$:	3,000.00		
3.2	150mm thick Class 2 CR under pipe	186	m²	\$ 12.00	\$	2,226			\$	18.00		
3.3	Backfill and compact FCR to trench	105	Lm	\$ 500.00	\$	52,500			\$	1,500.00		
4	MISCELLANEOUS						\$	-				
	TOTAL A - C				\$	239,104	\$	239,104	\$	6,721	\$	6,721
D	Contingency											
	Contingency (20% of C)					20%	\$	47,821		20%	\$	1,344
	PRO IFOT BURGET											
E	PROJECT BUDGET							000.005			_	
	Total Estimate						\$	286,925			\$	8,06

Notes: Services

Service relocation / alterations have not been allowed for in the estimate

Preliminaries

2 Based on nominal rates and 30% of total drainage line

Demolition

3 We have only allowed to demolish the items shown above

Construction

- 4 No allowance has been included for end walls and pits
- 5 No allowance has been included for safety fencing
- 6 Construction to take place aside existing road prior to road extension
- 7 Installation of culverts to be done prior or during road fill works
- 8 Regrading of creek not included

AUTHOR: Kim Dinh Date: 24/08/2015



MW-011

Culvert Length, m: 49

24 August 2015 Version 8

BR-54	1-05, Partial Cost	PM %: 1	12.81%						IV	IETER			
ITEM		QUANTITY	UNIT	RATE	Α	MOUNT	SU	BTOTAL		RATE		TOTAL	
Α	Project and Program Management						\$	15,792			\$		322
	Project Management		3.00%	3.84%	\$	9,475			\$	193.37			
	reporting and commissioning									Ù.			
	development of tender documents and management												
	liaison, environmental issues, traffic issues etc												
	Records management												
	Program Administration		2.00%	2.56%	\$	6,317			\$	128.92			
В	Design and Investigation						\$	31,584			\$		645
	Traffic Investigations		0.85%	1.09%	\$	2,685			\$	54.79			
	Cadastral and Engineering Survey		1.20%	1.54%	\$	3,790			\$	77.35			
	Geotechnical investigations Pavement Investigations												
	and Design		1.20%	1.54%	\$	3,790			\$	77.35			
	Environmental Investigations			0.00%	\$	-			\$	<u>-</u>			
	Landscape Design			0.00%	\$	-			\$	<u>-</u>			
	Preliminary and Final Design		4.25%	5.44%	\$	13,423			\$	273.94			
	Construction Management		2.50%	3.20%	\$	7,896			\$	161.14			
С	Construction including Final Design				\$	246,559		246,559					5,179
1	PRELIMINARIES						\$	14,240	\$	-	\$		291
1.1	Site Establishment	1	item	\$ 1,700.00	\$	1,700			\$	34.69			
1.2	Site Management & supervision including QA	3	wks	\$ 840.00	\$	2,520			\$	51.43			
1.3	Provision for traffic	3	wks	\$ 3,340.00	\$	10,020			\$	204.49			
2	EARTHWORKS						\$	31,576			\$		821
2.1	Stripping topsoil (100mm)	191	m²	\$ 6.00	\$	1,147			\$	60.00			
2.2	Excavation and Removal	1,014	m³	\$ 30.00	\$	30,429			\$	760.73			
3	DRAINAGE, PIPES AND CULVERTS						\$	200,743			\$		1,068
3.1	3x900dia. RCP pipe, supply and lay	147	Lm	\$	\$	124,950			_	2,550.00			
3.2	150mm thick Class 2 CR under pipe	191	m²	\$ 12.00	\$	2,293			\$	18.00			
3.3	Backfill and compact FCR to trench	147	Lm	\$ 500.00	\$	73,500			\$ 1	,500.00			
4	MISCELLANEOUS						\$	-					
	TOTAL A - C				· •	200 005		202 225	•	0.440			140
	IUIAL A - C				\$	293,935	\$	293,935	\$	6,146	\$,	5,146
D	Contingency												
	Contingency (20% of C)					20%	\$	58,787		20%	\$	-	1,229
E	PROJECT BUDGET												
	Total Estimate						\$	352,722	\bot		\$	7	7,375

Notes: Services

- Service relocation / alterations have not been allowed for in the estimate
 - Preliminaries
- 2 Based on nominal rates and 30% of total drainage line Demolition
- 3 We have only allowed to demolish the items shown above
- Construction
- 4 No allowance has been included for end walls and pits
 5 No allowance has been included for safety fencing
- 6 Construction to take place aside existing road prior to road extension
- 7 Installation of culverts to be done prior or during road fill works
- 8 Regrading of creek not included

AUTHOR: Kim Dinh

REVIEWER: Rob Henry Date: 24/08/2015

\\AUMELCFS01.cardno.corp\Apps\\WINDOWS\2013\CG130898\Civil Construction\Cost Estimates\Clyde PSP\Culverts\2015-08-24 - Culvert cost estimate - V8\CG130898 Preliminary Cost Estimate - Bridges, Culverts V8.xlsx
24/08/2015 Page 9



CG130898

24 August 2015 Version 8

/IW-013		vert Length, m:										
	07, Partial Cost	PM %:								METER		
ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	A	MOUNT		BTOTAL		RATE		TOTAL
Α	Project and Program Management						\$	14,716			\$	368
	Project Management		3.00%	3.67%	\$	8,830			\$	220.74		
	reporting and commissioning											
	of tender documents and management of contracts											
	liaison, environmental issues, traffic issues etc											
	Records management											
	Program Administration		2.00%	2.45%	\$	5,886			\$	147.16		
В	Design and Investigation						\$	29,432			\$	736
	Traffic Investigations		0.85%	1.04%	\$	2,502	Ť	- , -	\$	62.54	_	
	Cadastral and Engineering Survey		1.20%	1.47%	\$	3,532			\$	88.30		
	Geotechnical investigations Pavement Investigations and Design		1.20%	1.47%	\$	3,532			\$	88.30		
	Environmental Investigations		1.2070	0.00%	\$				\$	00.50		
	Landscape Design			0.00%	\$				\$			
	Preliminary and Final Design		4.25%	5.20%	\$	12,509			\$	312.72		
	Construction Management		2.50%	3.06%	\$	7,358			\$	183.95		
	Constituction Management		2.30%	3.00%	Φ	7,336			· O	163.93		
С	Construction including Final Design				\$	240,656	\$	240,656			\$///	5,990
1	PRELIMINARIES						\$	14,240	\$	-	\$	356
1.1	Site Establishment	1	item	\$ 1,700.00	-	1,700			\$	42.50		
1.2	Site Management & supervision including QA	3	wks	\$ 840.00		2,520			\$	63.00		
1.3	Provision for traffic	3	wks	\$ 3,340.00	\$	10,020			\$	250.50		
2	EARTHWORKS						\$	31,536			\$	816
2.1	Stripping topsoil (100mm)	216	m²	\$ 6.00	\$	1,296			\$	60.00		
2.2	Excavation and Removal	1,008	m³	\$ 30.00	\$	30,240			\$	756.00		
3	DRAINAGE, PIPES AND CULVERTS						\$	194,880			\$	4,818
3.1	3x1500dia. RCP pipe, supply and lay	120	Lm	\$ 1,100.00	\$	132,000			\$	3,300.00		
3.2	150mm thick Class 2 CR under pipe	240	m²	\$ 12.00	\$	2,880			\$	18.00		
3.3	Backfill and compact FCR to trench	120	Lm	\$ 500.00	\$	60,000			\$	1,500.00		
4	MISCELLANEOUS						\$	-				
	TOTAL A - C				\$	284,804	\$	284,804	\$	7,094	\$	7,094
D	Contingency											
	Contingency (20% of C)					20%	\$	56,961		20%	\$	1,419
E	PROJECT BUDGET											
	Total Estimate						\$	341,765			\$	8,512

Notes: Services

Service relocation / alterations have not been allowed for in the estimate

Preliminaries

2 Based on nominal rates and 30% of total drainage line

Demolition

3 We have only allowed to demolish the items shown above

Construction

- 4 No allowance has been included for end walls and pits
- 5 No allowance has been included for safety fencing
- 6 Construction to take place aside existing road prior to road extension
- 7 Installation of culverts to be done prior or during road fill works
- 8 Regrading of creek not included

AUTHOR: Kim Dinh Date: 24/08/2015



PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS

CG130898 MW-017

Culvert Length, m: 48 PM %: 13.28% 24 August 2015 Version 8

BR-54-	11, Partial Cost	PM %: 1	3.28%						N	METER		
ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	A	MOUNT	SU	IBTOTAL		RATE		TOTAL
Α	Project and Program Management						\$	20,591			\$	429
	Project Management		3.00%	3.98%	\$	12,354			\$	257.38		
	reporting and commissioning									·		
	of tender documents and management of contracts											
	liaison, environmental issues, traffic issues etc											
	Records management											
	Program Administration		2.00%	2.66%	\$	8,236			\$	171.59		
В	Design and Investigation						\$	41,182			\$	858
В	Traffic Investigations		0.85%	1.13%	•	3,500	Þ	41,102	e.	72.93	Ф	030
	Cadastral and Engineering Survey				\$				\$			
	<u> </u>		1.20%	1.59%	\$	4,942			\$	102.95		
	Geotechnical investigations Pavement Investigations		4.000/	4.500/		4.040			6	400.05		
	and Design		1.20%	1.59%	\$	4,942			\$	102.95		
	Environmental Investigations			0.00%	\$				\$	<u>-</u>		
	Landscape Design		4.050/	0.00%	\$	- 47.500			\$	-		
	Preliminary and Final Design Construction Management		4.25%	5.64%	\$	17,502			\$	364.63 214.49		
	Construction Management		2.50%	3.32%	\$	10,295			\$	214.49		
С	Construction including Final Design				\$	310,102	\$	310,102			\$	6,641
1	PRELIMINARIES						\$	14,240	\$	-	\$	297
1.1	Site Establishment	1	item	\$ 1,700.00) \$	1,700			\$	35.42		
1.2	Site Management & supervision including QA	3	wks	\$ 840.00) \$	2,520			\$	52.50		
1.3	Provision for traffic	3	wks	\$ 3,340.00) \$	10,020			\$	208.75		
2	EARTHWORKS						\$	48,125			\$	1,226
2.1	Stripping topsoil (100mm)	245	m²	\$ 6.00) \$	1,469			\$	60.00		
2.2	Excavation and Removal	1,555	m³	\$ 30.00) \$	46,656			\$	1,166.40		
3	DRAINAGE, PIPES AND CULVERTS					,	\$	247,738			\$	5,118
3.1	2x2100dia. RCP pipe, supply and lay	96	Lm	\$ 2,050.00) \$	196,800			\$	4,100.00		
3.2	150mm thick Class 2 CR under pipe	245	m²	\$ 12.00) \$	2,938			\$	18.00		
3.3	Backfill and compact FCR to trench	96	Lm	\$ 500.00	\$	48,000			\$	1,000.00		
4	MISCELLANEOUS						\$	-				
	TOTAL A - C				\$	371,875	\$	371,875	\$	7,928	\$	7,928
					1 +	0. 1,0.0	T .	,	_	1,020	T	1,020
D	Contingency											
	Contingency (20% of C)					20%	\$	74,375		20%	\$	1,586
Е	PROJECT BUDGET				Т		Ι_					
	Total Estimate						\$	446.250			\$	9,514

Notes: Services

Service relocation / alterations have not been allowed for in the estimate

Preliminaries

2 Based on nominal rates and 30% of total drainage line

Demolition

3 We have only allowed to demolish the items shown above

Construction

- 4 No allowance has been included for end walls and pits
- 5 No allowance has been included for safety fencing
- 6 Construction to take place aside existing road prior to road extension
- 7 Installation of culverts to be done prior or during road fill works
- 8 Regrading of creek not included

AUTHOR: Kim Dinh Date: 24/08/2015



PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS

CG130898 MW-017

Culvert Length, m: 43 PM %: 13.28% 24 August 2015 Version 8

BR-54-	14, Partial Cost	PM %: 1	3.28%							N	IETER		
ITEM	DESCRIPTION	QUANTITY	UNIT	\top	RATE	Α	MOUNT	SU	BTOTAL		RATE		TOTAL
Α	Project and Program Management							\$	12,647			\$	294
	Project Management		3.00%		3.98%	\$	7,588			\$	176.47		
	reporting and commissioning										`		
	of tender documents and management of contracts												
	liaison, environmental issues, traffic issues etc												
	Records management												
	Program Administration		2.00%		2.66%	\$	5,059			\$	117.64		
В	Design and Investigation							\$	25,293			\$	588
	Traffic Investigations		0.85%		1.13%	\$	2,150	- D	23,293	\$	50.00	Ф	300
	Cadastral and Engineering Survey		1.20%		1.59%	\$	3,035			\$	70.59		
	Geotechnical investigations Pavement Investigations		1.20%		1.09%	Ψ.	3,033			a a	70.59		
	and Design		1.20%		1.59%	\$	3,035			\$	70.59		
	Environmental Investigations		1.2076		0.00%	\$	3,033			\$	10.33		
	Landscape Design				0.00%	\$				\$			
	Preliminary and Final Design		4.25%		5.64%	\$	10,750			\$	249.99		
	Construction Management		2.50%		3.32%	\$	6,323			\$	147.05		
	Outstruction Wariagement		2.3076		3.32 /6	Ψ	0,323			Ψ//	141.03		
С	Construction including Final Design					\$	190,463	\$	190,463			\$	4,499
1	PRELIMINARIES							\$	14,240	\$	- -	\$	331
1.1	Site Establishment	1	item	\$	1,700.00	\$	1,700	Ť	, -	\$	39.53	Ė	
1.2	Site Management & supervision including QA	3	wks	\$	840.00	\$	2,520			\$	58.60		
1.3	Provision for traffic	3	wks	\$	3,340.00	-	10,020			\$	233.02		
2	EARTHWORKS						,	\$	36,610			\$	950
2.1	Stripping topsoil (100mm)	168	m²	\$	6.00	\$	1,006	Ť		\$	60.00		
2.2	Excavation and Removal	1,187	m³	\$	30.00	\$	35,604			\$	890.10		
3	DRAINAGE, PIPES AND CULVERTS						,	\$	139,612			\$	3,218
3.1	2x1500dia. RCP pipe, supply and lay	86	Lm	\$	1,100.00	\$	94,600			\$	2,200.00		
3.2	150mm thick Class 2 CR under pipe	168	m²	\$	12.00	\$	2,012			\$	18.00		
3.3	Backfill and compact FCR to trench	86	Lm	\$	500.00	\$	43,000			\$	1,000.00		
4	MISCELLANEOUS							\$	-				
	TOTAL A - C					\$	228.403	\$	228.403	\$	5,382	\$	5,382
						_	,	, T	,	-	-,	-	,
D	Contingency												
	Contingency (20% of C)						20%	\$	45,681		20%	\$	1,076
Е	PROJECT BUDGET			1 .				Ι.					
	Total Estimate							•	274,083			\$	6,458

Notes: Services

Service relocation / alterations have not been allowed for in the estimate

Preliminaries

2 Based on nominal rates and 30% of total drainage line

Demolition

3 We have only allowed to demolish the items shown above

Construction

- 4 No allowance has been included for end walls and pits
- 5 No allowance has been included for safety fencing
- 6 Construction to take place aside existing road prior to road extension
- 7 Installation of culverts to be done prior or during road fill works
- 8 Regrading of creek not included

AUTHOR: Kim Dinh Date: 24/08/2015



PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS

CG130898 MW-027

Culvert Length, m: 52 PM %: 13.35% 24 August 2015 Version 8

BR-54-	15, Partial Cost	PM %: 1	3.35%				METER	
ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	AMOUNT	SUBTOTAL	RATE	TOTAL
Α	Project and Program Management					\$ 7,748		\$ 149
	Project Management		3.00%	4.01%	\$ 4,649		\$ 89.40	
	reporting and commissioning						,	
	of tender documents and management of contracts							
	liaison, environmental issues, traffic issues etc							
	Records management							
	Program Administration		2.00%	2.67%	\$ 3,099		\$ 59.60	
В	Design and Investigation					\$ 15,496		\$ 298
	Traffic Investigations		0.85%	1.13%	\$ 1,317	φ 13,430	\$ 25.33	φ 230
	Cadastral and Engineering Survey		1.20%	1.60%	\$ 1,860		\$ 35.76	
	Geotechnical investigations Pavement Investigations		1.2076	1.0076	ψ 1,000		φ 33.70	
	and Design		1.20%	1.60%	\$ 1,860		\$ 35.76	
	Environmental Investigations		1.2070	0.00%	\$ -		\$ -	
	Landscape Design			0.00%	\$ -		\$ -	
	Preliminary and Final Design		4.25%	5.67%	\$ 6.586		\$ 126.65	
	Construction Management		2.50%	3.34%	\$ 3,874		\$ 74.50	
	Constitution Management		2.3070	3.3470	ψ 3,074		Ψ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
С	Construction including Final Design				\$ 116,077	\$ 116,077		\$ 2,451
1	PRELIMINARIES					\$ 14,240	\$ -	\$ 274
1.1	Site Establishment	1	item	\$ 1,700.00	\$ 1,700		\$ 32.69	
1.2	Site Management & supervision including QA	3	wks	\$ 840.00	\$ 2,520		\$ 48.46	
1.3	Provision for traffic	3	wks	\$ 3,340.00	\$ 10,020		\$ 192.69	
2	EARTHWORKS					\$ 30,514		\$ 809
2.1	Stripping topsoil (100mm)	94	m²	\$ 6.00	\$ 562		\$ 60.00	
2.2	Excavation and Removal	998	m³	\$ 30.00	\$ 29,952		\$ 748.80	
3	DRAINAGE, PIPES AND CULVERTS					\$ 71,323		\$ 1,368
3.1	900dia. RCP pipe, supply and lay	52	Lm	\$ 850.00	\$ 44,200		\$ 850.00	
3.2	150mm thick Class 2 CR under pipe	94	m²	\$ 12.00	\$ 1,123		\$ 18.00	
3.3	Backfill and compact FCR to trench	52	Lm	\$ 500.00	\$ 26,000		\$ 500.00	
4	MISCELLANEOUS					\$ -		
	TOTAL A - C				\$ 139,321	\$ 139,321	\$ 2,898	\$ 2,898
D	Contingency							
	Contingency (20% of C)				20%	\$ 27,864	20%	\$ 580
Е	PROJECT BUDGET			_				
_	Total Estimate					\$ 167,185		\$ 3,477
	TOTAL ESTIMATE					φ 107,165		\$ 3,477

Notes: Services

Service relocation / alterations have not been allowed for in the estimate

Preliminaries

2 Based on nominal rates and 30% of total drainage line

Demolition

3 We have only allowed to demolish the items shown above

Construction

- 4 No allowance has been included for end walls and pits
- 5 No allowance has been included for safety fencing
- 6 Construction to take place aside existing road prior to road extension
- 7 Installation of culverts to be done prior or during road fill works
- 8 Regrading of creek not included

AUTHOR: Kim Dinh

Date: 24/08/2015



CG130898

24 August 2015 Version 8

MW-024		vert Length, m: 4	14									version o
	16, Partial Cost	PM %:							ı	/IETER		
ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	A	MOUNT	SU	BTOTAL		RATE	$\overline{}$	TOTAL
Α	Project and Program Management							18,954			\$	431
	Project Management		3.00%	3.98%	\$	11,372			\$	258.46		
	reporting and commissioning									,		
	of tender documents and management of contracts											
	liaison, environmental issues, traffic issues etc											
	Records management											
	Program Administration		2.00%	2.66%	\$	7,581			\$	172.31		
В	Design and Investigation						\$	37,907			\$	862
	Traffic Investigations		0.85%	1.13%	\$	3,222	۳	01,001	\$	73.23	<u> </u>	002
	Cadastral and Engineering Survey		1.20%	1.59%	\$	4,549			\$	103.38		
	Geotechnical investigations Pavement Investigations and Design		1.20%	1.59%	\$	4,549			\$	103.38		
	Environmental Investigations		1.2070	0.00%	\$	-,040			\$	-		
	Landscape Design			0.00%	\$				\$			
	Preliminary and Final Design		4.25%	5.64%	\$	16,111			\$	366.15		
	Construction Management		2.50%	3.32%	\$	9,477			\$	215.38		
			uuuulu an iaiahhiuulu	<i></i>	//A Ψ				2000			
С	Construction including Final Design				\$	285,447	\$	285,447			\$///	6,571
1	PRELIMINARIES						\$	14,240	\$	-	\$	324
1.1	Site Establishment	1	item	\$ 1,700.00) \$	1,700			\$	38.64		
1.2	Site Management & supervision including QA	3	wks	\$ 840.00) \$	2,520			\$	57.27		
1.3	Provision for traffic	3	wks	\$ 3,340.00) \$	10,020			\$	227.73		
2	EARTHWORKS						\$	44,114			\$	1,129
2.1	Stripping topsoil (100mm)	224	m²	\$ 6.00	_	1,346			\$	60.00		
2.2	Excavation and Removal	1,426	m³	\$ 30.00) \$	42,768			\$	1,069.20		
3	DRAINAGE, PIPES AND CULVERTS						\$	227,093			\$	5,118
3.1	2x2100dia. RCP pipe, supply and lay	88	Lm	\$ 2,050.00	_	180,400			_	4,100.00		
3.2	150mm thick Class 2 CR under pipe	224	m²	\$ 12.00		2,693			\$	18.00		
3.3	Backfill and compact FCR to trench	88	Lm	\$ 500.00) \$	44,000			\$	1,000.00		
4	MISCELLANEOUS						\$	-				
	TOTAL A - C				\$	342,308	\$	342,308	\$	7,863	\$	7,863
	11011211				ΙΨ	0.2,000		0.2,000	Ψ.	7,000	Ψ	7,000
D	Contingency											
	Contingency (30% of C)					30%	\$	102,692		30%	\$	2,359
Е	PROJECT BUDGET											
	· · · · · · · · · · · · · · · · · · ·							445.001		_		10,222

Notes:

There was no design currently for this structure. It has been based on a culvert with a similar design flow and an adopted length as it crossing an identical road. (30% used as a contigency for this culvert)

Services

1 Service relocation / alterations have not been allowed for in the estimate

Preliminaries

2 Based on nominal rates and 30% of total drainage line

Demolition

3 We have only allowed to demolish the items shown above

Construction

- 4 No allowance has been included for end walls and pits
- 5 No allowance has been included for safety fencing
- 6 Construction to take place aside existing road prior to road extension
- Installation of culverts to be done prior or during road fill works
- 8 Regrading of creek not included

AUTHOR: Kim Dinh Date: 24/08/2015

REVIEWER: Rob Henry



7.8 Interim desalination crossing costings



CG130898

Protective Bridging structure

Hardies Rd Intrim road pavement width Length, m: 10
BR-53-05 PM %: 13.41%

ITEM	DESCRIPTION	QUANTITY	UNIT
Α	Project and Program Management		
	Project Management		3.00%
	reporting and commissioning		
	of tender documents and management of contracts		
	liaison, environmental issues, traffic issues etc		
	Records management		
	Program Administration		2.00%
			5.00%

В	Design and Investigation	
	Traffic Investigations	0.85%
	Cadastral and Engineering Survey	1.20%
	and Design	1.20%
	Environmental Investigations	
	Landscape Design	
	Preliminary and Final Design	4.25%
	Construction Management	2.50%

10.00%

С	Construction including Final Design		
1	PRELIMINARIES		
1.1	Site Establishment	1	item
1.2	Site Management & supervision including QA	1	item
1.3	Provision for traffic	1	item
2	EARTHWORKS		
2.1	Excavation of slab	23	m²
2.2	Excavation Service duct	6	Lm
3	ROAD STRUCTURE		
3.1	Bore 600mmmdia 3.5m depth peir Concrete and cage		
	reo at 2m cts	12	item
3.2	Reinforced Edge beam	20	lm
3.3	250mm Reinforced conc slab	50	m²
3.4	Kerb upstands	20	lm
3.5			
	2m edge ramps in the pavement each side of slab	40	m²
3.6	40mm Asphalt pavement	50	m²
4	SERVICE DUCTS		
4.1	900mm*300mm Conc duct on 75mm bedding	10	Lm
4.2	900mm*300mm Conc lids	10	Lm
4	MISCELLANEOUS		

TOTAL A - C

D	Contingency
	Contingency (20% of C)



Е	PROJECT BUDGET	
	Total Estimate	

Notes: Services

- 1 Service relocation / alterations have not been allowed for in the estimate
- 2 no Allowance for any Demolition
- 3 no footpats
- 4 Allowed ramping with conc and paving each side of the road slab

AUTHOR: Harrendran Mohan

Date: 12/09/2014



12 September 2014 Version 1

RATE	Al	MOUNT	SUBTOTAL
			\$ 6,713
4.02%	\$	4,028	
2.68%	\$	2,685	

		\$ 13,426
1.14%	\$ 1,141	
1.61%	\$ 1,611	
1.61%	\$ 1,611	
0.00%	\$ -	
0.00%	\$ -	
5.70%	\$ 5,706	
3.35%	\$ 3,357	

	\$ 100,123	\$ 100,123
		\$ 43,500
\$ 6,000.00	\$ 6,000	
\$ 2,500.00	\$ 2,500	
\$ 35,000.00	\$ 35,000	
		\$ 1,463
\$ 45.00	\$ 1,013	
\$ 45.00	\$ 450	
		\$ 39,160
\$ 1,350.00	\$ 16,200	
\$ 100.00	\$ 2,000	
\$ 220.00	\$ 11,000	
\$ 75.00	\$ 1,500	
\$ 174.00	\$ 6,960	
\$ 30.00	\$ 1,500	
		\$ 16,000
\$ 1,350.00	\$ 13,500	
\$ 250.00	\$ 2,500	
		\$ -

	\$ 120,262	\$ 120,262

20%	\$ 24,052

	Meter	
Verge		1
lane		3.5
lane		3.5
Sholder		1
Verge		1
		10



\$ 144,315



RATE

PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS

CG130898

ITEM

Protective Bridging structure

Hardies Rd road pavement width Length, m: 40 PM %: 13.41%

DESCRIPTION

12 September 2014 Version 1

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	AMOUN		SUBTOTAL
Α	Project and Program Management					\$	14,093
	Project Management	111111	3.00%	4.02%	\$ 8,45	6	
	reporting and commissioning	CHILL.	111111	1111111			
	of tender documents and management of contracts	(11111)	111111	0.000			
	liaison, environmental issues, traffic issues etc	1111111		1000000			
	Records management	1000		1111111			
	Program Administration	11111	2.00%	2.68%	\$ 5,63	37	
	3	17.7.7.7.7.1	5.00%	10000	ή Φ 0,00		
В	Design and Investigation		0.0070			\$	28,186
	Traffic Investigations	1111111	0.85%	1.14%	\$ 2,39		
	Cadastral and Engineering Survey		1.20%	1.61%	\$ 3,38	_	
	and Design	0000	1.20%	1.61%	\$ 3,38		
	Environmental Investigations	111111	1.2070	0.00%	\$ -	,_	
	Landscape Design			0.00%	\$ -		
	Preliminary and Final Design	111111	4.25%	5.70%	\$ 11,97	'a	
	Construction Management		2.50%	3.35%	\$ 7,04	_	
	Construction Management		10.00%	3.5576	ψ 7,0-	• /	
С	Construction including Final Design		10.00%		\$ 210,19	0 \$	210,190
1	PRELIMINARIES				Ψ 210,13	\$	43,500
1.1	Site Establishment	1	item	\$ 6,000.00	\$ 6,00		45,500
1.2	Site Management & supervision including QA	1	item	\$ 2,500.00	\$ 2,50		
1.3	Provision for traffic	1		- '	-		
2	EARTHWORKS	1	item	\$ 35,000.00	\$ 35,00	\$	4 500
2.1	Excavation of slab	00	3	ф 4F 00	C 4.07	-	4,500
2.1	Excavation Service duct	90	m²	\$ 45.00 \$ 45.00	\$ 4,05	_	
	ROAD STRUCTURE	6	Lm	\$ 45.00	\$ 45	-	4.40.400
3						\$	146,190
3.1	Bore 600mmmdia 3.5m depth peir Concrete and cage	40	21	f 4.050.00	6 54.00		
0.0	reo at 2m cts	40	item	\$ 1,350.00	\$ 54,00		
3.2	Reinforced Edge beam	82	<u>lm</u>	\$ 100.00	\$ 8,20		
3.3	250mm Reinforced conc slab	200	m²	\$ 220.00	\$ 44,00	_	
3.4	Kerb upstands	82	lm	\$ 75.00	\$ 6,15		
3.5	2m edge ramps in the pavement each side of slab	160	m²	\$ 174.00	\$ 27,84		
3.6	40mm Asphalt pavement	200	m²	\$ 30.00	\$ 6,00	_	
4	SERVICE DUCTS					\$	16,000
4.1	900mm*300mm Conc duct on 75mm bedding	10	Lm	\$ 1,350.00	\$ 13,50		
4.2	900mm*300mm Conc lids	10	Lm	\$ 250.00	\$ 2,50	_	
4	MISCELLANEOUS					\$	-
	TOTAL A - C				\$ 252,47	'0 \$	252,470
D	Contingency					•	
	Contingency (20% of C)				20%	\$	50,494
Е	PROJECT BUDGET						
	Total Estimate					\$	302,964
	Total Edilliate					Ψ	302,304

Notes: Services

- 1 Service relocation / alterations have not been allowed for in the estimate
- 2 no Allowance for any Demolition
- 3 no footpats
- 4 Allowed ramping with conc and paving each side of the road slab

AUTHOR: Harrendran Mohan Date: 12/09/2014



CG130898

Protective Bridging structure Bell Rd

road pavement width Length, m: 41

12 September 2014 Version 1

BR-53	g-06	PM %:	13.41%					
ITEM	DESCRIPTION	QUANTITY	UNIT	RATE		TNUOMA		SUBTOTAL
Α	Project and Program Management						\$	14,231
	Project Management	111111	3.00%	4.02%	\$	8,538		
	reporting and commissioning	111111	111111	111111	3			
	of tender documents and management of contracts	0111111	(11/11/1	111111	3			
	liaison, environmental issues, traffic issues etc	011111	(10)10)1	111111	3			
	Records management	01/11/11	(11)(11)	1.11.11.11	J			
	Program Administration	01.111.11	2.00%	2.68%	\$	5,692		
			5.00%					
В	Design and Investigation						\$	28,461
	Traffic Investigations	11/1/1	0.85%	1.14%	\$	2,419		
	Cadastral and Engineering Survey	11111	1.20%	1.61%	\$	3,415		
	Geotechnical investigations Pavement Investigations	11111	111111	111111	5			
	and Design	11111	1.20%	1.61%	\$	3,415		
	Environmental Investigations	11111	111111	0.00%	\$	-		
	Landscape Design	1717	11111	0.00%	\$	-		
	Preliminary and Final Design	11111	4.25%	5.70%	\$	12,096		
	Construction Management	111111	2.50%	3.35%	\$	7,115		
			10.00%					
С	Construction including Final Design				\$	212,237	\$	212,23
1	PRELIMINARIES						\$	43,50
1.1	Site Establishment	1	item	\$ 6,000.00	\$	6,000		
1.2	Site Management & supervision including QA	1	item	\$ 2,500.00	\$	2,500		
1.3	Provision for traffic	1	item	\$ 35,000.00	\$	35,000		
2	EARTHWORKS						\$	4,60
2.1	Excavation of slab	92	m²	\$ 45.00	\$	4,151		
2.2	Excavation Service duct	6	Lm	\$ 45.00	\$	450		
3	ROAD STRUCTURE						\$	148,13
3.1	Bore 600mmmdia 3.5m depth peir Concrete and cage							
	reo at 2m cts	40	item	\$ 1,350.00	\$	54,000		
3.2	Reinforced Edge beam	82	m²	\$ 100.00	\$	8,200		
3.3	250mm Reinforced conc slab	205	m²	\$ 220.00	\$	45,100		
3.4	Kerb upstands	82	lm	\$ 75.00	\$	6,150		
3.5	2m edge ramps in the pavement each side of slab	164	m²	\$ 174.00	\$	28,536		
3.6	40mm Asphalt pavement	205	m²	\$ 30.00	\$	6,150		
4	SERVICE DUCTS						\$	16,00
4.1	900mm*300mm Conc duct on 75mm bedding	10	Lm	\$ 1,350.00	\$	13,500		
4.2	900mm*300mm Conc lids	10	Lm	\$ 250.00	\$	2,500		
4	MISCELLANEOUS						\$	-
	TOTAL A - C				\$	254,929	\$	254,92
D	Contingency							
	Contingency (20% of C)					20%	\$	50,98
	12.2. 3.2.3 (22.2.2)	1	1	1	_		Ψ	23,000
Е	PROJECT BUDGET							
	Total Estimate						\$	305,91

Notes: Services

- 1 Service relocation / alterations have not been allowed for in the estimate 2 no Allowance for any Demolition
- no footpaths
- Allowed ramping with conc and paving each side of the road slab

AUTHOR: Harrendran Mohan

Date: 12/09/2014



CG130898

Protective Bridging structure

Bell Rd Intrim road pavement width Length, m: 10
BR-53-06 PM %: 13.41%

ITEM	DESCRIPTION	QUANTITY	UNIT
Α	Project and Program Management		
	Project Management		3.00%
	reporting and commissioning		
	of tender documents and management of contracts		
	liaison, environmental issues, traffic issues etc		
	Records management		
	Program Administration		2.00%

5.00%

В	Design and Investigation	
	Traffic Investigations	0.85%
	Cadastral and Engineering Survey	1.20%
	and Design	1.20%
	Environmental Investigations	
	Landscape Design	
	Preliminary and Final Design	4.25%
	Construction Management	2.50%

10.00%

С	Construction including Final Design		
1	PRELIMINARIES		
1.1	Site Establishment	1	item
1.2	Site Management & supervision including QA	1	item
1.3	Provision for traffic	1	item
2	EARTHWORKS		
2.1	Excavation of slab	23	m²
2.2	Excavation Service duct	6	Lm
3	ROAD STRUCTURE		
3.1	Bore 600mmmdia 3.5m depth peir Concrete and cage		
	reo at 2m cts	12	item
3.2	Reinforced Edge beam	20	m²
3.3	250mm Reinforced conc slab	50	m²
3.4	Kerb upstands	20	lm
3.5			
	2m edge ramps in the pavement each side of slab	40	m²
3.6	40mm Asphalt pavement	50	m²
4	SERVICE DUCTS		
4.1	900mm*300mm Conc duct on 75mm bedding	10	Lm
4.2	900mm*300mm Conc lids	10	Lm
4	MISCELLANEOUS		

TOTAL A - C

D	Contingency	
	Contingency (20% of C)	



Е	PROJECT BUDGET	
	Total Estimate	

Notes: Services

- 1 Service relocation / alterations have not been allowed for in the estimate
- 2 no Allowance for any Demolition
- 3 no footpaths
- 4 Allowed ramping with conc and paving each side of the road slab

AUTHOR: Harrendran Mohan

Date: 12/09/2014



12 September 2014 Version 1

RATE	Al	AMOUNT		SUBTOTAL
			\$	6,713
4.02%	\$	4,028		
2.68%	\$	2,685		

	Meter	
Verge		1
lane		3.5
lane		3.5
Sholder		1
Verge		1
		10

		\$ 13,426
1.14%	\$ 1,141	
1.61%	\$ 1,611	
1.61%	\$ 1,611	
0.00%	\$ -	
0.00%	\$ -	
5.70%	\$ 5,706	
3.35%	\$ 3,357	

	\$ 100,123	\$ 100,12	23
		\$ 43,500	0
\$ 6,000.00	\$ 6,000		
\$ 2,500.00	\$ 2,500		
\$ 35,000.00	\$ 35,000		
		\$ 1,463	3
\$ 45.00	\$ 1,013		
\$ 45.00	\$ 450		
		\$ 39,160	0
\$ 1,350.00	\$ 16,200		
\$ 100.00	\$ 2,000		
\$ 220.00	\$ 11,000		
\$ 75.00	\$ 1,500		
\$ 174.00	\$ 6,960		
\$ 30.00	\$ 1,500		
		\$ 16,000	0
\$ 1,350.00	\$ 13,500		
\$ 250.00	\$ 2,500		
		\$ -	

20%	\$ 24,052



	Φ.	4.44.045
	\$	144,315



Protective Bridging structure

SUMMARY SHEET CG130898 Clyde PSP

12 September 2014

Version 1

		Inte	rim			Int	erim		
ITEM	DESCRIPTION	BR-53-06		BR-53-06		BR-53-05		BR-53-05	
		Bell Rd		Bell Rd		Hardies Rd		Hardies Rd	
		T	otal Cost	1	otal Cost	1	Total Cost	ľ	Total Cost
Α	Project and Program Management	\$	6,713	\$	14,231	\$	6,713	\$	14,093
В	Design and Investigation	\$	13,426	\$	28,461	\$	13,426	\$	28,186
С	Construction including Final Design	\$	100,123	\$	212,237	\$	100,123	\$	210,190
	TOTAL A - C	\$	120,262	\$	254,929	\$	120,262	\$	252,470
D	CONTINGENCY								
	Contingency	\$	24,052	\$	50,986	\$	24,052	\$	50,494
E	PROJECT BUDGET								
	Total Estimate	\$	144,315	\$	305,915	\$	144,315	\$	302,964

Notes: Services

1 Service relocation / alterations have not been allowed for in the estimate

2 no Allowance for any Demolition

3 no footpaths

4 Allowed ramping with conc and paving each side of the road slab

AUTHOR: Harrendran Mohan Date: 12/09/2014



7.9 Sports field detailed plans



















7.10 Sports field costing sheets

PROWSE QUANTITY SURVEYORS PTY LTD



ABN 83 097 049 548 Suite 8, 13 Church Street, Hawthorn, Victoria 3122 Tel: (03) 9852 7811 Fax: (03) 9852 7044

W: www.prowseqs.com.au E: info@prowseqs.com.au

15 October 2014

Ref: 9838-04

Metropolitan Planning Authority Level 29, 35 Collins Street Melbourne VIC 3000

Attention: Ms. Alexandrea Malishev

Dear Alexandrea,

RE: CLYDE DCP – ACTIVE RECREATION PROJECTS MPA REFERENCE NO: COR/13/9502

As requested, we have prepared a cost study for the Development Contribution Plan for the above project, based on information received by us up to 15 October 2014.

Our estimate of the anticipated total cost is \$56,534,443 for a fixed price contract at July 2014 cost levels and a summary follows:

(Fixed Price Contract – July 2014)		
Anticipated Total Project Cost (Excluding GST)	\$	56,534,443
AR_54_05B Clyde Creek Precinct – AOS5 – Pavilion	5	1,435,896
	\$ \$	1,435,896
AR_54_04B Clyde Creek Precinct – AOS4 – Pavilion	\$ \$	2,122,313
AR 54 03B Clyde Creek Precinct – AOS2 – Pavinon AR 54 03B Clyde Creek Precinct – AOS3 – Pavilion	ъ \$	3,520,440
AR_54_01B Clyde Creek Precinct – AOS1 – Pavinon AR_54_02B Clyde Creek Precinct – AOS2 – Pavilion	\$	
AR_54_01B Clyde Creek Precinct – AOS1 – Pavilion	\$	1,435,896
AR_53_03B Thompsons Road Precinct – AOS3 – Pavilion	\$	2,122,313
AR_53_02B Thompsons Road Precinct – AOS2 – Pavilion	\$	1,435,896
AR_53_01B Thompsons Road Precinct – AOS1 – Pavilion	\$	1,435,896
Pavilions		
AR_54_05A Clyde Creek Precinct – AOS5	\$	7,290,832
AR_54_04A Clyde Creek Precinct – AOS4	\$	4,071,846
AR_54_03A Clyde Creek Precinct – AOS3	\$	5,479,052
AR_54_02A Clyde Creek Precinct – AOS2	\$	6,462,530
AR_54_01A Clyde Creek Precinct – AOS1	\$	4,252,802
AR_53_03A Thompsons Road Precinct – AOS3	\$	6,479,827
AR_53_02A Thompsons Road Precinct – AOS2	\$	3,322,104
AR_53_01A Thompsons Road Precinct – AOS1	\$	4,230,904
•	ф	4 220 004
Playing Fields		

Allowances for the following have been included in our estimate:

- Preliminaries and Design variable
- Cost escalation to a tender date of July 2014
- Cost escalation during construction
- Competitive tendering
- Design fees (5% as advised)
- Project management and supervision (10% as advised)
- Contingency (20% as advised)

Allowances for the following have been excluded from our estimate:

- Goods & Services Tax
- Cost escalation to tender after July 2014
- Authority contribution and headwork charges
- Adverse market conditions and rock excavation
- Abnormal ground conditions
- Loose furniture and equipment
- Hazardous material removal

This estimate is based on preliminary information. Assumptions have been made and these assumptions will require confirmation when further documentation becomes available.

We have attached the following documents for your information:

- Appendix A: Explanatory Notes (Ref G)
- Appendix B: Stage A Cost Plans (Ref G)

Yours faithfully

PROWSE QUANTITY SURVEYORS PTY LTD

JOE YEH



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CLYDE DEVELOPER CONTRIBUTION PLAN COSTING Active Recreation Projects Explanatory Notes

DATE

15/10/2014

REF

9838/G

Page 1

EXPLANATORY NOTES:

<u>Definition of Measurement of Building Area</u>

- Fully Enclosed Covered Area (FECA)

The sum of all such areas at all building floor levels, including basement (except unexcavated portions), floored roof spaces and attics, garages, penthouses, enclosed porches and attached enclosed covered way alongside buildings, equipment rooms, lift shafts, vertical ducts, staircases and any other fully enclosed spaces and usable area of the building, computed by measuring from the normal inside face of exterior walls but ignoring any projections such as plinths, columns, piers and the like which project from the normal inside face of exterior walls.

It shall not include open courts, light wells, connecting or isolated covered ways and net open areas of upper portions of rooms, lobbies, halls, interstitial spaces and the like which extend through the storey being computed.

- Unenclosed Covered Area (UCA)

The sum of all such areas at all building floor levels, including roofed balconies, open verandahs, porches and porticos, attached open covered way alongside buildings, undercrofts and usable space under buildings, unenclosed access galleries (including ground floor) and any other trafficable covered areas of the building which are not totally enclosed by full height walls, computed by measuring the areas between the enclosing walls or balustrade (ie from the inside face of the UCA excluding the wall or balustrade thickness). When the covering element (ie roof or upper floor) is supported by columns, is cantilevered or is suspended, or any combination of these, the measurements shall taken to the edge of the paving or to the edge of the cover, whichever is the lesser.

UCA shall not include eves overhangs, sun shading, awnings and the like where these do not relate to clearly defined trafficable covered areas, nor shall it include connecting or isolated covered ways.

- Gross Floor Area (GFA)

The sum of the "Fully Enclosed Area" and "Unenclosed Covered Area" as defined.

- Building Area (BA)

The total enclosed and unenclosed area of the building at all building floor levels measured between the normal outside face of any enclosing walls, balustrades and supports.

CLYDE DEVELOPER CONTRIBUTION PLAN COSTING Active Recreation Projects Explanatory Notes

DATE

15/10/2014

REF

9838/G

2

Page

EXPLANATORY NOTES (Cont'd)

Building Costs per square meter

- The estimates provided are all-up estimates of the construction costs, they include allowance for labours, material, equipment, builder's preliminaries and overheads and profits.
- We have assumed the compliance of current building codes and Australian Standards would be the minimum requirement of the development. The development should achieve Council's expectation of standard quality and finishes of similar public assets.
- We have assumed the tender procurement for each development is through a competitive tendering process with no less than three selected tenderers to participate.
- We have assumed the form of contracting is an Australian Standard lump sum contract, such as AS4000.
- We have allowed for cost escalation to an anticipated tender date as noted. The estimates include cost escalation during the construction period of the development.
- A 5% of "Design Fees" has been allowed for in our cost estimates as per MPA's instruction
- A 10% of "Project Management & Supervision" cost has been allowed for in our cost estimates as per MPA's instruction.
- A 20% of "Contingency" has been allowed for in our cost estimates as per MPA's instruction.
- The estimates exclude Goods and Services Tax (G.S.T)
- The estimates exclude cost associated with utilities connection, authority contribution and headworks charges
- The estimates exclude cost associated with working in significant sloping site, rock excavation and site decontamination.
- The estimates exclude allowance for loose furniture and equipment.
- The estimates are prepared based on the previous DCP costing that PQS involved in, such as Armstrong Creek East DCP, Armstrong Creek West DCP, Armstrong Creek Horseshoe Bend DCP, Ballarat West DCP, and also cost plans prepared for various local councils including City of Boroondara, Melton City Council, City of Port Phillip, Frankston City Council etc.



A

P

P E

N

D

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'B'



DATE 15/10/2014

REF 9838/G *Page* 1

ELEM	DESCRIPTION	UNIT	NETT COST	ON COST	TOTAL
					COST
	<u>Playing Fields</u>				
AR_53_01A	Thompsons Road Precinct - AOS1	ITEM	3,052,600	1,178,304	4,230,904
AR_53_02A	Thompsons Road Precinct - AOS2	ITEM	2,396,900	925,204	3,322,104
AR_53_03A	Thompsons Road Precinct - AOS3	ITEM	4,675,200	1,804,627	6,479,827
AR_54_01A	Clyde Creek Precinct - AOS1	ITEM	3,068,400	1,184,402	4,252,802
AR_54_02A	Clyde Creek Precinct - AOS2	ITEM	4,662,720	1,799,810	6,462,530
AR_54_03A	Clyde Creek Precinct - AOS3	ITEM	3,953,140	1,525,912	5,479,052
AR_54_04A	Clyde Creek Precinct - AOS4	ITEM	2,937,840	1,134,006	4,071,846
AR_54_05A	Clyde Creek Precinct - AOS5	ITEM	5,260,340	2,030,492	7,290,832
AR_51.1_01A	Not Applicable	NOTE			-
	Pavilions				
AR_53_01B	Thompsons Road Precinct - AOS1 - Pavilion	ITEM	1,036,000	399,896	1,435,896
AR_53_02B	Thompsons Road Precinct - AOS2 - Pavilion	ITEM	1,036,000	399,896	1,435,896
AR_53_03B	Thompsons Road Precinct - AOS3 - Pavilion	ITEM	1,531,250	591,063	2,122,313
AR_54_01B	Clyde Creek Precinct - AOS1 - Pavilion	ITEM	1,036,000	399,896	1,435,896
AR_54_02B	Clyde Creek Precinct - AOS2 - Pavilion	ITEM	2,540,000	980,440	3,520,440
AR_54_03B	Clyde Creek Precinct - AOS3 - Pavilion	ITEM	1,531,250	591,063	2,122,313
AR_54_04B	Clyde Creek Precinct - AOS4 - Pavilion	ITEM	1,036,000	399,896	1,435,896
AR_54_05B	Clyde Creek Precinct - AOS5 - Pavilion	ITEM	1,036,000	399,896	1,435,896
AR_51.1_01B	Not Applicable	NOTE			-
	Total of Active Recreation Projects (Excl GST)				56,534,443
	(Fixed Price Contract - July 2014)				

DATE 15/10/2014

AR-53-01 Part A - Playing Fields

REF 9838/G Page

М	DESCRIPTION	UNIT	QUANTITY	RATE	TOTAL COST
					COST
	AR-53-01 Part A - Playing Fields				
	Football / Cricket Ovals (173x143m)	NO	2	670,000	1,340,000
	Training lights (1 No ovals) - (Conduits only)	NO	2	80,000	160,000
	Including the following:			,	,
	- 4m run off				
	- Goals & perimeter fencing (1.2m h)				
	- Central cricket pitch (all-weather surface)				
	- Interchange shelters				
	- Cricket practice training nets				
	- Irrigation system				
	- Council approved turf				
	Site Works				
	Site preparation & demolition	ITEM			120,000
	- Site trimming, benching and cut and fill	M2	89,100	2	178,200
	Roads, footpaths and paved areas	ITEM			80,000
	- Gravel Carpark (in approx 100 cars)	M2	4,200	60	252,000
	Boundary walls, fences and gates	ITEM			80,000
	Outbuildings and covered ways	ITEM			50,000
	Landscaping and Improvements	M2	46,550	8	372,400
	External Services				
	External stormwater drainage	ITEM			160,000
	External sewer drainage	ITEM			10,000
	External water supply	ITEM			50,000
	External gas reticulation	ITEM			10,000
	Litternal gas reticulation				
	External fire protection	ITEM			30,000
	I	ITEM ITEM			30,000 130,000

SUB-TOTAL SUB-TOTAL			\$	3,052,600
DDELINAINIADIEC (Included About)		0/	¢	
PRELIMINARIES (Included Above)		%	\$ *	-
COST ESCALATION TO TENDER (Included Above)		%	\$ *	-
COST ESCALATION DURING CONSTRUCTION (Included Above)		%	\$ *	-
DESIGN FEES (As Advised)	5.00		\$ *	152,630
PROJECT MANAGEMENT & SUPERVISION (As Advised)	10.00		\$ *	320,523
CONTINGENCY (As Advised)	20.00	%	\$ ¢	705,151
LOOSE FURNITURE & EQUIPMENT (Excluded)	ITEM		\$	

ANTICIPATED TOTAL PROJECT COST (Excluding GST)

4,230,904

15/10/2014 DATE

AR-53-02 Part A - Playing Fields

REF 9838/G Page

ELEM	DESCRIPTION	UNIT	QUANTITY	RATE	TOTAL
					COST
	AR-53-02 Part A - Playing Fields				
	Netball courts (Per Court), incl goal ring posts	NO	4	70,000	280,000
	- Playing lights (Per Court) (Conduits only)	NO	4	10,000	40,000
	Tennis Court - Synthetic surface (In 6 no.)	M2	3,250	130	422,500
	- Playing field fencing (3.6m high)	M	300	180	54,000
	- Bench seats & shelters	NO	6	2,500	15,000
	- Lighting (Conduits only)	NO	6	5,000	30,000
	Bowling Green	No	1	180,000	180,000
	Playing lights (Per green)	No	1	50,000	50,000
	- Shelters	110	1	30,000	30,000
	- Perimeter fencing				
	- Perimeter footpath				
	Termiter jootputii				
	Site Works				
	Site preparation & demolition	ITEM			90,000
	- Site trimming, benching and cut and fill	M2	40,200	2	80,400
	Roads, footpaths and paved areas	ITEM			50,000
	- Gravel Carpark (in approx 120 cars)	M2	8,710	60	522,600
	Boundary walls, fences and gates	ITEM			50,000
	Outbuildings and covered ways	ITEM			30,000
	Landscaping and Improvements	M2	22,800	8	182,400
	External Services				
	External Services	ITENA			120,000
	External source designate	ITEM			120,000
	External sewer drainage	ITEM			10,000
	External water supply	ITEM			40,000
	External gas reticulation	ITEM			10,000
	External fire protection	ITEM			20,000
	External light & power	ITEM			100,000
	External communications	ITEM			20,000

SUB-TOTAL SUB-TOTAL			\$	2,396,900
DDELINAINIADIES (Inchinded Above)		0/	ć	
PRELIMINARIES (Included Above)		%	\$	-
COST ESCALATION TO TENDER (Included Above)	-	%	\$	-
COST ESCALATION DURING CONSTRUCTION (Included Above)	-	%	\$	-
DESIGN FEES (As Advised)	5.00	%	\$	119,845
PROJECT MANAGEMENT & SUPERVISION (As Advised)	10.00	%	\$	251,675
CONTINGENCY (As Advised)	20.00	%	\$	553,684
LOOSE FURNITURE & EQUIPMENT (Excluded)	ITEM		\$_	-

ANTICIPATED TOTAL PROJECT COST (Excluding GST)

DATE 15/10/2014

AR-53-03 Part A - Playing Fields

REF 9838/G Page

LEM	DESCRIPTION	UNIT	QUANTITY	RATE	TOTAL
					COST
	AR-53-03 Part A - Playing Fields				
	Football / Cricket Ovals (173x143m)	NO	3	670,000	2,010,000
	Training lights (1 No ovals) - (Conduits only)	NO	3	80,000	240,000
	Including the following:		3	30,000	2 10,000
	- 4m run off				
	- Goals & perimeter fencing (1.2m h)				
	- Central cricket pitch (all-weather surface)				
	- Interchange shelters				
	- Cricket practice training nets				
	- Irrigation system				
	- Council approved turf				
	Nothell counts (Don Count) included via a vert	NO		70.000	140.000
	Netball courts (Per Court), incl goal ring posts - Playing lights (Per Court) (Conduits only)	NO NO	2 2	70,000 10,000	140,000 20,000
	- Flaying lights (Fel Court) (Conduits Only)	NO	2	10,000	20,000
	Site Works				
	Site preparation & demolition	ITEM			190,000
	- Site trimming, benching and cut and fill	M2	130,000	2	260,000
	Roads, footpaths and paved areas	ITEM	,		120,000
	- Gravel Carpark (in approx 180 cars)	M2	5,400	60	324,000
	Boundary walls, fences and gates	ITEM			120,000
	Outbuildings and covered ways	ITEM			70,000
	Landscaping and Improvements	M2	67,650	8	541,200
	External Services				
	External stormwater drainage	ITEM			240,000
	External sewer drainage	ITEM			20,000
	External water supply	ITEM			80,000
	External gas reticulation	ITEM			20,000
	External fire protection	ITEM			40,000
	External light & power	ITEM			200,000
	External communications	ITEM			40,000

SUB-TOTAL			\$	4,675,200
DDF//MANADIFG // J. J. J. J. J. J. J. J. J. J. J. J. J.		0/	,	
PRELIMINARIES (Included Above)	-	%	\$	-
COST ESCALATION TO TENDER (Included Above)	-	%	\$	-
COST ESCALATION DURING CONSTRUCTION (Included Above)	-	%	\$	-
DESIGN FEES (As Advised)	5.00	%	\$	233,760
PROJECT MANAGEMENT & SUPERVISION (As Advised)	10.00	%	\$	490,896
CONTINGENCY (As Advised)	20.00	%	\$	1,079,971
LOOSE FURNITURE & EQUIPMENT (Excluded)	ITEM		\$_	

ANTICIPATED TOTAL PROJECT COST (Excluding GST)

6,479,827

DATE 15/10/2014

AR-54-01 Part A - Playing Fields

REF 9838/G *Page* 5

ELEM	DESCRIPTION	UNIT	QUANTITY	RATE	TOTAL
					COST
	AR-54-01 Part A - Playing Fields			670.000	1 2 1 2 2 2 2
	Football / Cricket Ovals (173x143m)	NO	2	670,000	1,340,000
	Training lights (1 No ovals) - (Conduits only)	NO	2	80,000	160,000
	Including the following:				
	- 4m run off - Goals & perimeter fencing (1.2m h)				
	- Godis & perimeter Jenking (1.211 h) - Central cricket pitch (all-weather surface)				
	- Central Cricket pitch (an-weather surface) - Interchange shelters				
	- Cricket practice training nets				
	- Irrigation system				
	- Council approved turf				
	Council approved tary				
	Site Works				
	Site preparation & demolition	ITEM			120,000
	- Site trimming, benching and cut and fill	M2	90,800	2	181,600
	Roads, footpaths and paved areas	ITEM			80,000
	- Gravel Carpark (in approx 100 cars)	M2	4,200	60	252,000
	Boundary walls, fences and gates	ITEM			80,000
	Outbuildings and covered ways	ITEM			50,000
	Landscaping and Improvements	M2	48,100	8	384,800
	External Services				
	External stormwater drainage	ITEM			160,000
	External sewer drainage	ITEM			10,000
	External water supply	ITEM			50,000
	External gas reticulation	ITEM			10,000
	External fire protection	ITEM			30,000
	External light & power	ITEM			130,000
	External communications	ITEM			30,000
					,

SUB-TOTAL SUB-TOTAL			\$	3,068,400
PRELIMINARIES (Included Above)		%	ć	
COST ESCALATION TO TENDER (Included Above)		%	\$ \$	-
COST ESCALATION DURING CONSTRUCTION (Included Above)	-	%	\$	-
DESIGN FEES (As Advised)	5.00	%	\$	153,420
PROJECT MANAGEMENT & SUPERVISION (As Advised)	10.00	%	\$	322,182
CONTINGENCY (As Advised)	20.00	%	\$	708,800
LOOSE FURNITURE & EQUIPMENT (Excluded)	ITEM		\$	

ANTICIPATED TOTAL PROJECT COST (Excluding GST)

4,252,802

DATE

15/10/2014

AR-54-02 Part A - Playing Fields

REF Page 9838/G

ELEM	DESCRIPTION	UNIT	QUANTITY	RATE	TOTAL COST
					CO31
	AR-54-02 Part A - Playing Fields				
	Football / Cricket Ovals (173x143m)	NO	3	670,000	2,010,000
	Training lights (1 No ovals) - (Conduits only)	NO	3	80,000	240,000
	Including the following:				
	- 4m run off				
	- Goals & perimeter fencing (1.2m h)				
	- Central cricket pitch (all-weather surface)				
	- Interchange shelters				
	- Cricket practice training nets				
	- Irrigation system				
	- Council approved turf				
	Netball courts (Per Court), incl gold ring posts	NO	2	70,000	140,000
	- Playing lights (Per Court) (Conduits only)	NO	2	10,000	20,000
	Site Works				
	Site preparation & demolition	ITEM			190,000
	- Site trimming, benching and cut and fill	M2	130,200	2	260,400
	Roads, footpaths and paved areas	ITEM			120,000
	- Gravel Carpark (in approx 180 cars)	M2	5,400	60	324,000
	Boundary walls, fences and gates	ITEM			120,000
	Outbuildings and covered ways	ITEM		_	70,000
	Landscaping and Improvements	M2	66,040	8	528,320
	External Services				
	External stormwater drainage	ITEM			240,000
	External sewer drainage	ITEM			20,000
	External water supply	ITEM			80,000
	External gas reticulation	ITEM			20,000
	External fire protection	ITEM			40,000
	External light & power	ITEM			200,000
	External communications	ITEM			40,000

SUB-TOTAL			\$ 4,662,720
PRELIMINARIES (Included Above)	-	%	\$ -
COST ESCALATION TO TENDER (Included Above)	-	%	\$ -
COST ESCALATION DURING CONSTRUCTION (Included Above)	-	%	\$ -
DESIGN FEES (As Advised)	5.00	%	\$ 233,136
PROJECT MANAGEMENT & SUPERVISION (As Advised)	10.00	%	\$ 489,586
CONTINGENCY (As Advised)	20.00	%	\$ 1,077,088
LOOSE FURNITURE & EQUIPMENT (Excluded)	ITEM		\$

ANTICIPATED TOTAL PROJECT COST (Excluding GST)

6,462,530

DATE 15/10/2014

AR-54-03 Part A - Playing Fields

REF 9838/G Page

ELEM	DESCRIPTION	UNIT	QUANTITY	RATE	TOTAL
					COST
	AR-54-03 Part A - Playing Fields				
	Football / Cricket Ovals (173x143m)	NO	2	670,000	1,340,000
	Training lights (1 No ovals) - (Conduits only)	NO	2	80,000	160,000
	Including the following:	1.0	_	33,333	100,000
	- 4m run off				
	- Goals & perimeter fencing (1.2m h)				
	- Central cricket pitch (all-weather surface)				
	- Interchange shelters				
	- Cricket practice training nets				
	- Irrigation system				
	- Council approved turf				
	Netball courts (Per Court), incl gold ring posts	NO	2	70,000	140,000
	- Playing lights (Per Court) (Conduits only)	NO	2	10,000	20,000
	ridying lights (Fer court) (conducts only)		2	10,000	20,000
	Site Works				
	Site preparation & demolition	ITEM			130,000
	- Site trimming, benching and cut and fill (New site)	M2	107,400	2	214,800
	 E/O site benching, incl fill (over existing dames) 	M3	28,100	15	421,500
	 E/O site benching, incl fill (over existing ovals) 	M3	11,000	15	165,000
	Roads, footpaths and paved areas	ITEM			80,000
	- Gravel Carpark (in approx 130 cars)	M2	3,900	60	234,000
	Boundary walls, fences and gates	ITEM			80,000
	Outbuildings and covered ways	ITEM			50,000
	Landscaping and Improvements	M2	47,230	8	377,840
	External Services				
	External stormwater drainage	ITEM			200,000
	External sewer drainage	ITEM			20,000
	External water supply	ITEM			70,000
	External gas reticulation	ITEM			20,000
	External fire protection	ITEM			30,000
	External light & power	ITEM			170,000
	External communications	ITEM			30,000

SUB-TOTAL SUB-TOTAL			\$ 3,953,140
PRELIMINARIES (Included Above)	-	%	\$ -
COST ESCALATION TO TENDER (Included Above)	-	%	\$ -
COST ESCALATION DURING CONSTRUCTION (Included Above)	-	%	\$ -
DESIGN FEES (As Advised)	5.00	%	\$ 197,657
PROJECT MANAGEMENT & SUPERVISION (As Advised)	10.00	%	\$ 415,080
CONTINGENCY (As Advised)	20.00	%	\$ 913,175
LOOSE FURNITURE & EQUIPMENT (Excluded)	ITEM		\$ -

ANTICIPATED TOTAL PROJECT COST (Excluding GST)

5,479,052

DATE 15/10/2014

AR-54-04 Part A - Playing Fields

REF 9838/G *Page* 8

ELEM	DESCRIPTION	UNIT	QUANTITY	RATE	TOTAL COST
	AR-54-04 Part A - Playing Fields Football / Cricket Ovals (173x143m) Training lights (1 No ovals) - (Conduits only) Including the following: - 4m run off - Goals & perimeter fencing (1.2m h) - Central cricket pitch (all-weather surface) - Interchange shelters - Cricket practice training nets - Irrigation system - Council approved turf	NO NO	2 2	670,000 80,000	1,340,000 160,000
	Site Works Site preparation & demolition - Site trimming, benching and cut and fill Roads, footpaths and paved areas - Gravel Carpark (in approx 100 cars) Boundary walls, fences and gates Outbuildings and covered ways Landscaping and Improvements	ITEM M2 ITEM M2 ITEM ITEM M2	83,600 3,000 43,830	2 60 8	120,000 167,200 80,000 180,000 80,000 50,000 350,640
	External Services External stormwater drainage External sewer drainage External water supply External gas reticulation External fire protection External light & power External communications	ITEM ITEM ITEM ITEM ITEM ITEM			150,000 10,000 50,000 10,000 30,000 130,000 30,000

SUB-TOTAL			\$ 2,937,840
PRELIMINARIES (Included Above)	-	%	\$ -
COST ESCALATION TO TENDER (Included Above)	-	%	\$ -
COST ESCALATION DURING CONSTRUCTION (Included Above)	-	%	\$ -
DESIGN FEES (As Advised)	5.00	%	\$ 146,892
PROJECT MANAGEMENT & SUPERVISION (As Advised)	10.00	%	\$ 308,473
CONTINGENCY (As Advised)	20.00	%	\$ 678,641
LOOSE FURNITURE & EQUIPMENT (Excluded)	ITEM		\$ -

ANTICIPATED TOTAL PROJECT COST (Excluding GST)

4,071,846

DATE 15/10/2014

AR-54-05 Part A - Playing Fields

REF 9838/G *Page* 9

Training lights (1 No ovals) - (Conduits only) Including the following: - 4m run off - Goals & perimeter fencing (1.2m h) - Central cricket pitch (all-weather surface) - Interchange shelters - Cricket practice training nets - Irrigation system - Council approved turf Netball courts (Per Court), incl gold ring posts - Playing lights (Per Court) (Conduits only) NO 2 70,000 Site Works Site preparation & demolition - Site trimming, benching and cut and fill - Additional site balancing, incl imported fill Roads, footpaths and paved areas - Gravel Carpark (in approx 130 cars) - Gravel Carpark (in approx 130 cars) - Boundary walls, fences and gates - Outbuildings and covered ways - Landscaping and Improvements External Services External Services External sewer drainage - External sewer drainage - External sewer drainage - External sewer drainage - External sewer drainage - External sewer drainage - External light & power - TEM - 20,000 - External light & power - TEM - 20,000 - External light & power - TEM - 20,000 - External light & power - TEM - 20,000 - External light & power	ELEM	DESCRIPTION	UNIT	QUANTITY	RATE	TOTAL COST
Including the following: - 4m run off Goals & perimeter fencing (1.2m h) - Central cricket pitch (all-weather surface) - Interchange shelters - Cricket practice training nets - Irrigation system - Council approved turf Netball courts (Per Court), incl gold ring posts - Playing lights (Per Court) (Conduits only) NO 2 70,000 140,000 - Playing lights (Per Court) (Conduits only) NO 2 10,000 20,000 Site Works Site preparation & demolition - Site trimming, benching and cut and fill - Additional site balancing, incl imported fill - Additional site balancing, incl imported fill - Gravel Carpark (in approx 130 cars) - Gravel Car			NO	2	670,000	1,340,000
- Playing lights (Per Court) (Conduits only) Site Works Site preparation & demolition - Site trimming, benching and cut and fill - Additional site balancing, incl imported fill Roads, footpaths and paved areas - Gravel Carpark (in approx 130 cars) Boundary walls, fences and gates Outbuildings and covered ways Landscaping and Improvements External Services External stormwater drainage External sewer drainage External water supply External gas reticulation External fire protection External light & power ITEM 20,000 2 216,000 2 216,000 2 216,000 2 216,000 2 216,000 2 216,000 2 216,000 2 216,000 2 216,000 2 216,000 2 216,000 2 216,000 2 216,000 6 360,000 6 360,000 6 360,000 8 0,000 6 360,000 8 0,000 6 360,000 8 0,000 6 360,000 8 0,000 6 360,000 6 360,000 6 360,000 6 360,000 6 360,000 6 360,000 6 360,000 6 360,000 8 0,000 6 360,000 6		Including the following: - 4m run off - Goals & perimeter fencing (1.2m h) - Central cricket pitch (all-weather surface) - Interchange shelters - Cricket practice training nets - Irrigation system	NO	2	80,000	160,000
Site preparation & demolition - Site trimming, benching and cut and fill - Additional site balancing, incl imported fill Roads, footpaths and paved areas - Gravel Carpark (in approx 130 cars) Boundary walls, fences and gates Outbuildings and covered ways Landscaping and Improvements External Services External stormwater drainage External sweer drainage External water supply External gas reticulation External fire protection External light & power ITEM 130,000 15 1,444,500 80,000 60 360,000 60 60 360,000 60 60 360,000 60 60 360,000 60 60 60 60 60 60 60 60 60 60 60 60						140,000 20,000
- Site trimming, benching and cut and fill - Additional site balancing, incl imported fill Roads, footpaths and paved areas - Gravel Carpark (in approx 130 cars) Boundary walls, fences and gates Outbuildings and covered ways Landscaping and Improvements External Services External stormwater drainage External sewer drainage External water supply External gas reticulation External fire protection External light & power - Site trimming, benching and cut and fill M2 108,000 2 216,000 80,000 15 1,444,500 80,000 60 360,000 80		Site Works				
- Additional site balancing, incl imported fill Roads, footpaths and paved areas - Gravel Carpark (in approx 130 cars) Boundary walls, fences and gates Outbuildings and covered ways Landscaping and Improvements External Services External stormwater drainage External sewer drainage External water supply External gas reticulation External light & power Figure 1.444,500 80,000 60 360,000 80,0		Site preparation & demolition	ITEM			130,000
Roads, footpaths and paved areas Gravel Carpark (in approx 130 cars) Boundary walls, fences and gates Outbuildings and covered ways Landscaping and Improvements External Services External stormwater drainage External swer drainage External water supply External gas reticulation External fire protection External light & power ITEM 80,000 80,		- Site trimming, benching and cut and fill	M2	108,000	2	216,000
- Gravel Carpark (in approx 130 cars) Boundary walls, fences and gates Outbuildings and covered ways Landscaping and Improvements External Services External stormwater drainage External sewer drainage External water supply External gas reticulation External fire protection External light & power Franch Services ITEM 270,000 1TEM 270,000 1TEM 20,000 1TEM 20,000 1TEM 20,000 230,000		- Additional site balancing, incl imported fill	M3	96,300	15	1,444,500
Boundary walls, fences and gates Outbuildings and covered ways Landscaping and Improvements External Services External stormwater drainage External sewer drainage External water supply External gas reticulation External fire protection External light & power ITEM 80,000 5		Roads, footpaths and paved areas	ITEM			80,000
Outbuildings and covered ways Landscaping and Improvements External Services External stormwater drainage External sewer drainage External water supply External gas reticulation External fire protection External light & power ITEM 50,000 1TEM 50,000 1TEM 50,000 1TEM 50,000 230,000		- Gravel Carpark (in approx 130 cars)	M2	6,000	60	360,000
External Services External stormwater drainage External sewer drainage External water supply External gas reticulation External fire protection External light & power External light & power M2 63,730 8 509,840 270,000 1TEM 90,000 1TEM 1TEM 20,000 1TEM 50,000 230,000		Boundary walls, fences and gates	ITEM			80,000
External Services External stormwater drainage External sewer drainage External water supply External gas reticulation External fire protection External light & power External light & power External Services ITEM 270,000 1TEM 90,000 1TEM 20,000 1TEM 50,000 230,000		Outbuildings and covered ways	ITEM			50,000
External stormwater drainage ITEM 270,000 External sewer drainage ITEM 20,000 External water supply ITEM 90,000 External gas reticulation ITEM 20,000 External fire protection ITEM 50,000 External light & power ITEM 230,000		Landscaping and Improvements	M2	63,730	8	509,840
External sewer drainage ITEM 20,000 External water supply ITEM 90,000 External gas reticulation ITEM 20,000 External fire protection ITEM 50,000 External light & power ITEM 230,000		External Services				
External water supply External gas reticulation External fire protection External light & power ITEM 90,000 1TEM 20,000 1TEM 50,000 230,000		External stormwater drainage				270,000
External gas reticulation ITEM 20,000 External fire protection ITEM 50,000 External light & power ITEM 230,000		<u> </u>	ITEM			20,000
External fire protection ITEM 50,000 External light & power ITEM 230,000		1	ITEM			90,000
External light & power ITEM 230,000		_				20,000
			ITEM			50,000
External communications ITEM 50,000		External light & power	ITEM			230,000
		External communications	ITEM			50,000

SUB-TOTAL SUB-TOTAL			\$	5,260,340
PRELIMINARIES (Included Above)	_	%	¢	_
COST ESCALATION TO TENDER (Included Above)		%	\$	-
COST ESCALATION DURING CONSTRUCTION (Included Above)	-	%	\$	-
DESIGN FEES (As Advised)	5.00	%	\$	263,017
PROJECT MANAGEMENT & SUPERVISION (As Advised)	10.00	%	\$	552,336
CONTINGENCY (As Advised)	20.00	%	\$	1,215,139
LOOSE FURNITURE & EQUIPMENT (Excluded)	ITEM		\$_	-

ANTICIPATED TOTAL PROJECT COST (Excluding GST)

7,290,832

CLYDE DEVELOPER CONTRIBUTION PLAN COSTING	DATE	15/10/2014
Active Recreation Projects	GFA	400
AR-53-01 Part B - Pavilion		
	REF	9838/G
	Page	10

VI	DESCRIPTION		UNIT	QUANTITY	RATE	TOTAL
						COST
	45.50.45 . 5 5 31					
	AR-53-01 Part B - Pavilion	/FFCA\	142	120	2 200	276 000
	Change rooms Umpires change room	(FECA) (FECA)	M2 M2	120 20	2,300	276,000 46,000
	Toilet facilities	, ,			2,300	•
	Canteen	(FECA)	M2 M2	40 20	2,400	96,000 54,000
		(FECA) (FECA)	M2	60	2,700	•
	Meeting / function room		M2	80	2,200	132,000
	Storage facilities Office / first aid	(FECA) (FECA)	M2	10	1,800 2,200	144,000 22,000
	Internal / external toilets		M2	30		72,000
		(FECA)	M2	20	2,400 750	
	Verandas & canopies	(UCA)	IVIZ	20	750	15,000
	Sita Warks					
	Site Works		ITEM			24 000
	Site preparation & demolition		ITEM			34,000
	Site preparation & demolition Roads, footpaths and paved areas		ITEM			9,000
	Site preparation & demolition Roads, footpaths and paved areas Boundary walls, fences and gates		ITEM ITEM			9,000 9,000
	Site preparation & demolition Roads, footpaths and paved areas Boundary walls, fences and gates Outbuildings and covered ways		ITEM ITEM ITEM			9,000 9,000 4,000
	Site preparation & demolition Roads, footpaths and paved areas Boundary walls, fences and gates		ITEM ITEM			9,000 9,000 4,000
	Site preparation & demolition Roads, footpaths and paved areas Boundary walls, fences and gates Outbuildings and covered ways Landscaping and Improvements		ITEM ITEM ITEM			9,000 9,000
	Site preparation & demolition Roads, footpaths and paved areas Boundary walls, fences and gates Outbuildings and covered ways Landscaping and Improvements External Services		ITEM ITEM ITEM ITEM			9,000 9,000 4,000 26,000
	Site preparation & demolition Roads, footpaths and paved areas Boundary walls, fences and gates Outbuildings and covered ways Landscaping and Improvements External Services External stormwater drainage		ITEM ITEM ITEM ITEM			9,000 9,000 4,000 26,000
	Site preparation & demolition Roads, footpaths and paved areas Boundary walls, fences and gates Outbuildings and covered ways Landscaping and Improvements External Services External stormwater drainage External sewer drainage		ITEM ITEM ITEM ITEM ITEM ITEM			9,000 9,000 4,000 26,000 31,000 16,000
	Site preparation & demolition Roads, footpaths and paved areas Boundary walls, fences and gates Outbuildings and covered ways Landscaping and Improvements External Services External stormwater drainage External sewer drainage External water supply		ITEM ITEM ITEM ITEM ITEM ITEM ITEM			9,000 9,000 4,000 26,000 31,000 16,000 8,000
	Site preparation & demolition Roads, footpaths and paved areas Boundary walls, fences and gates Outbuildings and covered ways Landscaping and Improvements External Services External stormwater drainage External sewer drainage External water supply External gas reticulation		ITEM ITEM ITEM ITEM ITEM ITEM ITEM			9,000 9,000 4,000 26,000 31,000 16,000 8,000 7,000
	Site preparation & demolition Roads, footpaths and paved areas Boundary walls, fences and gates Outbuildings and covered ways Landscaping and Improvements External Services External stormwater drainage External sewer drainage External water supply External gas reticulation External fire protection		ITEM ITEM ITEM ITEM ITEM ITEM ITEM ITEM			9,000 9,000 4,000 26,000 31,000 16,000 8,000 7,000 7,000
	Site preparation & demolition Roads, footpaths and paved areas Boundary walls, fences and gates Outbuildings and covered ways Landscaping and Improvements External Services External stormwater drainage External sewer drainage External water supply External gas reticulation		ITEM ITEM ITEM ITEM ITEM ITEM ITEM			9,000 9,000 4,000 26,000 31,000 16,000 8,000 7,000

SUB-TOTAL			\$ 1,036,000
DDELINADIA DIEG (I. J. J. J. J. J. J. J. J. J. J. J. J. J.		0/	
PRELIMINARIES (Included Above)	-	%	\$ -
COST ESCALATION TO TENDER (Included Above)	-	%	\$ -
COST ESCALATION DURING CONSTRUCTION (Included Above)	-	%	\$ -
DESIGN FEES (As Advised)	5.00	%	\$ 51,800
PROJECT MANAGEMENT & SUPERVISION (As Advised)	10.00	%	\$ 108,780
CONTINGENCY (As Advised)	20.00	%	\$ 239,316
LOOSE FURNITURE & EQUIPMENT (Excluded)	ITEM		\$ -

1,435,896

ANTICIPATED TOTAL PROJECT COST (Excluding GST)

CLYDE DEVELOPER CONTRIBUTION PLAN COSTING

Active Recreation Projects

AR-53-02 Part B - Pavilion

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VI	DESCRIPTION		UNIT	QUANTITY	RATE	TOTAL
						COST
	45 50 60 5 4 5 5 71					
	AR-53-02 Part B - Pavilion	/FFCA\	M2	120	2 200	276 000
	Change rooms Umpires change room	(FECA) (FECA)	M2	20	2,300 2,300	276,000 46,000
	Toilet facilities	(FECA)	M2	40	2,400	96,000
	Canteen	(FECA)	M2	20	2,400	54,000
		(FECA)	M2	60		132,000
	Meeting / function room Storage facilities	(FECA)	M2	80	2,200 1,800	144,000
	Office / first aid	(FECA)	M2	10	2,200	22,000
	Internal / external toilets	(FECA)	M2	30	2,200	72,000
			M2	20	750	
	Verandas & canopies	(UCA)	IVIZ	20	750	15,000
	Site Works					
	Site Works Site preparation & demolition		ITFM			34 000
	Site preparation & demolition		ITEM			
	Site preparation & demolition Roads, footpaths and paved areas		ITEM			34,000 9,000
	Site preparation & demolition Roads, footpaths and paved areas Boundary walls, fences and gates		ITEM ITEM			9,000 9,000
	Site preparation & demolition Roads, footpaths and paved areas Boundary walls, fences and gates Outbuildings and covered ways		ITEM ITEM ITEM			9,000 9,000 4,000
	Site preparation & demolition Roads, footpaths and paved areas Boundary walls, fences and gates		ITEM ITEM			9,000 9,000 4,000
	Site preparation & demolition Roads, footpaths and paved areas Boundary walls, fences and gates Outbuildings and covered ways Landscaping and Improvements		ITEM ITEM ITEM			9,000 9,000 4,000
	Site preparation & demolition Roads, footpaths and paved areas Boundary walls, fences and gates Outbuildings and covered ways Landscaping and Improvements External Services		ITEM ITEM ITEM ITEM			9,000 9,000 4,000 26,000
	Site preparation & demolition Roads, footpaths and paved areas Boundary walls, fences and gates Outbuildings and covered ways Landscaping and Improvements External Services External stormwater drainage		ITEM ITEM ITEM ITEM			9,000 9,000 4,000 26,000
	Site preparation & demolition Roads, footpaths and paved areas Boundary walls, fences and gates Outbuildings and covered ways Landscaping and Improvements External Services External stormwater drainage External sewer drainage		ITEM ITEM ITEM ITEM ITEM ITEM			9,000 9,000 4,000 26,000 31,000 16,000
	Site preparation & demolition Roads, footpaths and paved areas Boundary walls, fences and gates Outbuildings and covered ways Landscaping and Improvements External Services External stormwater drainage External sewer drainage External water supply		ITEM ITEM ITEM ITEM ITEM ITEM ITEM			9,000 9,000 4,000 26,000 31,000 16,000 8,000
	Site preparation & demolition Roads, footpaths and paved areas Boundary walls, fences and gates Outbuildings and covered ways Landscaping and Improvements External Services External stormwater drainage External sewer drainage External water supply External gas reticulation		ITEM ITEM ITEM ITEM ITEM ITEM ITEM			9,000 9,000 4,000 26,000 31,000 16,000 8,000 7,000
	Site preparation & demolition Roads, footpaths and paved areas Boundary walls, fences and gates Outbuildings and covered ways Landscaping and Improvements External Services External stormwater drainage External sewer drainage External water supply External gas reticulation External fire protection		ITEM ITEM ITEM ITEM ITEM ITEM ITEM ITEM			9,000 9,000 4,000 26,000 31,000 16,000 8,000 7,000 7,000
	Site preparation & demolition Roads, footpaths and paved areas Boundary walls, fences and gates Outbuildings and covered ways Landscaping and Improvements External Services External stormwater drainage External sewer drainage External water supply External gas reticulation		ITEM ITEM ITEM ITEM ITEM ITEM ITEM			9,000 9,000 4,000 26,000 31,000 16,000 8,000 7,000

SUB-TOTAL			\$	1,036,000
DDELINAINIADIEC (In alcode d'Abrace)		0/	<u>,</u>	
PRELIMINARIES (Included Above)		%	\$	-
COST ESCALATION TO TENDER (Included Above)	-	%	\$	-
COST ESCALATION DURING CONSTRUCTION (Included Above)	-	%	\$	-
DESIGN FEES (As Advised)	5.00	%	\$	51,800
PROJECT MANAGEMENT & SUPERVISION (As Advised)	10.00	%	\$	108,780
CONTINGENCY (As Advised)	20.00	%	\$	239,316
LOOSE FURNITURE & EQUIPMENT (Excluded)	ITEM		\$	-

1,435,896

ANTICIPATED TOTAL PROJECT COST (Excluding GST)

CLYDE DEVELOPER CONTRIBUTION PLAN COSTING

Active Recreation Projects

AR-53-03 Part B - Pavilion

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ELEM	DESCRIPTION		UNIT	QUANTITY	RATE	TOTAL
						COST
	AR-53-03 Part B - Pavilion					
	Oval Pavilion	/FFCA\	1.42	120	2 200	276,000
	Change rooms	(FECA) (FECA)	M2 M2	120 20	2,300 2,300	46,000
	Umpires change room Toilet facilities	, ,	M2	40	-	96,000
	Canteen	(FECA) (FECA)	M2	20	2,400 2,700	54,000
		, ,	M2	60	-	-
	Meeting / function room Storage facilities	(FECA) (FECA)	M2	80	2,200 1,800	132,000 144,000
	Office / first aid	(FECA)	M2	10	2,200	22,000
	Internal / external toilets	(FECA)	M2	30	2,200	72,000
	1	, ,			*	· ·
	Verandas & canopies	(UCA)	M2	20	750	15,000
	Netball Pavilion					
	Change rooms	(FECA)	M2	60	2,300	138,000
	Toilet facilities	(FECA)	M2	40	2,300	92,000
	Meeting / function room	(FECA)	M2	40	2,200	88,000
	Storage facilities	(FECA)	M2	45	1,800	81,000
	Verandas & canopies	(UCA)	M2	15	750	11,250
	Site Works					
	Site preparation & demolition		ITEM			51,000
	Roads, footpaths and paved areas		ITEM			13,000
	Boundary walls, fences and gates		ITEM			13,000
	Outbuildings and covered ways		ITEM			6,000
	Landscaping and Improvements		ITEM			38,000
	External Services					
	External stormwater drainage		ITEM			46,000
	External sewer drainage		ITEM			24,000
	External water supply		ITEM			11,000
	External gas reticulation		ITEM			10,000
	External fire protection		ITEM			10,000
	External light & power		ITEM			35,000
	External light & power External communications		ITEM			7,000
	LATERIAL COMMINICATIONS		HEIVI			7,000

SUB-TOTAL			\$ 1,531,250
PRELIMINARIES (Included Above)	-	%	\$ -
COST ESCALATION TO TENDER (Included Above)	-	%	\$ -
COST ESCALATION DURING CONSTRUCTION (Included Above)	-	%	\$ -
DESIGN FEES (As Advised)	5.00	%	\$ 76,563
PROJECT MANAGEMENT & SUPERVISION (As Advised)	10.00	%	\$ 160,781
CONTINGENCY (As Advised)	20.00	%	\$ 353,719
LOOSE FURNITURE & EQUIPMENT (Excluded)	ITEM		\$ -

ANTICIPATED TOTAL PROJECT COST (Excluding GST)

2,122,313

CLYDE DEVELOPER CONTRIBUTION PLAN COSTING

Active Recreation Projects

AR-54-01 Part B - Pavilion

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ELEM	DESCRIPTION		UNIT	QUANTITY	RATE	TOTAL
						COST
	AR-54-01 Part B - Pavilion					
	Oval & Soccer Pavilion	(
	Change rooms	(FECA)	M2	120	2,300	276,000
	Umpires change room	(FECA)	M2	20	2,300	46,000
	Toilet facilities	(FECA)	M2	40	2,400	96,000
	Canteen	(FECA)	M2	20	2,700	54,000
	Meeting / function room	(FECA)	M2	60	2,200	132,000
	Storage facilities	(FECA)	M2	80	1,800	144,000
	Office / first aid	(FECA)	M2	10	2,200	22,000
	Internal / external toilets	(FECA)	M2	30	2,400	72,000
	Verandas & canopies	(UCA)	M2	20	750	15,000
	Site Works					
	Site preparation & demolition		ITEM			34,000
	Roads, footpaths and paved areas		ITEM			9,000
	Boundary walls, fences and gates		ITEM			9,000
	Outbuildings and covered ways		ITEM			4,000
	Landscaping and Improvements		ITEM			26,000
	Landscaping and improvements		IILIVI			20,000
	External Services					
	External stormwater drainage		ITEM			31,000
	External sewer drainage		ITEM			16,000
	External water supply		ITEM			8,000
	External gas reticulation		ITEM			7,000
	External fire protection		ITEM			7,000
	External light & power		ITEM			23,000
	External communications		ITEM			5,000
	LAGITIAI COMMUNICATIONS		TTEIVI			3,000

SUB-TOTAL SUB-TOTAL			\$ 1,036,000
PRELIMINARIES (Included Above)	-	%	\$ -
COST ESCALATION TO TENDER (Included Above)	-	%	\$ -
COST ESCALATION DURING CONSTRUCTION (Included Above)	-	%	\$ -
DESIGN FEES (As Advised)	5.00	%	\$ 51,800
PROJECT MANAGEMENT & SUPERVISION (As Advised)	10.00	%	\$ 108,780
CONTINGENCY (As Advised)	20.00	%	\$ 239,316
LOOSE FURNITURE & EQUIPMENT (Excluded)	ITEM		\$ -

1,435,896

ANTICIPATED TOTAL PROJECT COST (Excluding GST)

CLYDE DEVELOPER CONTRIBUTION PLAN COSTING

Active Recreation Projects

AR-54-02 Part B - Pavilion

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М	DESCRIPTION		UNIT	QUANTITY	RATE	TOTAL
						COST
	AR-54-02 Part B - Pavilion					
	Oval & Soccer Pavilion					
	Change rooms	(FECA)	M2	350	2,300	805,000
	Umpires change room	(FECA)	M2	50	2,300	115,000
	Toilet facilities	(FECA)	M2	40	2,400	96,000
	Canteen	(FECA)	M2	60	2,700	162,000
	Meeting / function room	(FECA)	M2	200	2,200	440,000
	Storage facilities	(FECA)	M2	100	1,800	180,000
	Office / first aid	(FECA)	M2	40	2,200	88,000
	Internal / external toilets	(FECA)	M2	60	2,400	144,000
	Verandas & canopies	(UCA)	M2	100	750	75,000
	Site Works					
	Site preparation & demolition		ITEM			84,000
	Roads, footpaths and paved areas		ITEM			21,000
	Boundary walls, fences and gates		ITEM			21,000
	<u> </u>		11 - 141			
	I Outbuildings and covered ways		ITFM			11.000
	Outbuildings and covered ways Landscaping and Improvements		ITEM ITEM			
						11,000 63,000
	Landscaping and Improvements					63,000
	Landscaping and Improvements External Services		ITEM			
	Landscaping and Improvements External Services External stormwater drainage		ITEM			76,000 39,000
	External Services External stormwater drainage External sewer drainage		ITEM ITEM ITEM			76,000 39,000 18,000
	External Services External stormwater drainage External sewer drainage External water supply		ITEM ITEM ITEM ITEM			76,000 39,000 18,000 16,000
	External Services External stormwater drainage External sewer drainage External water supply External gas reticulation		ITEM ITEM ITEM ITEM ITEM			63,000 76,000

SUB-TOTAL SUB-TOTAL			\$	2,540,000
DDFLIMANIADIFS (Included Above)		0/	¢	
PRELIMINARIES (Included Above)		%	\$	-
COST ESCALATION TO TENDER (Included Above)	-	%	\$	-
COST ESCALATION DURING CONSTRUCTION (Included Above)	-	%	\$	-
DESIGN FEES (As Advised)	5.00	%	\$	127,000
PROJECT MANAGEMENT & SUPERVISION (As Advised)	10.00	%	\$	266,700
CONTINGENCY (As Advised)	20.00	%	\$	586,740
LOOSE FURNITURE & EQUIPMENT (Excluded)	ITEM		\$	-

3,520,440

ANTICIPATED TOTAL PROJECT COST (Excluding GST)

CLYDE DEVELOPER CONTRIBUTION PLAN COSTING	DATE	15/10/2014
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ELEM	DESCRIPTION		UNIT	QUANTITY	RATE	TOTAL
						COST
	AR-54-03 Part B - Pavilion					
	<u>Oval Pavilion</u>					
	Change rooms	(FECA)	M2	120	2,300	276,000
	Umpires change room	(FECA)	M2	20	2,300	46,000
	Toilet facilities	(FECA)	M2	40	2,400	96,000
	Canteen	(FECA)	M2	20	2,700	54,000
	Meeting / function room	(FECA)	M2	60	2,200	132,000
	Storage facilities	(FECA)	M2	80	1,800	144,000
	Office / first aid	(FECA)	M2	10	2,200	22,000
	Internal / external toilets	(FECA)	M2	30	2,400	72,000
	Verandas & canopies	(UCA)	M2	20	750	15,000
	Netball Pavilion					
	Change rooms	(FECA)	M2	60	2,300	138,000
	Toilet facilities	(FECA)	M2	40	2,300	92,000
	Meeting / function room	(FECA)	M2	40	2,200	88,000
	Storage facilities	(FECA)	M2	45	1,800	81,000
	Verandas & canopies	(UCA)	M2	15	750	11,250
	·	, ,				,
	Site Works					
	Site preparation & demolition		ITEM			51,000
	Roads, footpaths and paved areas		ITEM			13,000
	Boundary walls, fences and gates		ITEM			13,000
	Outbuildings and covered ways		ITEM			6,000
	Landscaping and Improvements		ITEM			38,000
	External Services					
	External stormwater drainage		ITEM			46,000
	External sewer drainage		ITEM			24,000
	External water supply		ITEM			11,000
	External gas reticulation		ITEM			10,000
	External fire protection		ITEM			10,000
	External light & power		ITEM			35,000
	External communications		ITEM			7,000

SUB-TOTAL			\$ 1,531,250
PRELIMINARIES (Included Above)	-	%	\$ -
COST ESCALATION TO TENDER (Included Above)	-	%	\$ -
COST ESCALATION DURING CONSTRUCTION (Included Above)	-	%	\$ -
DESIGN FEES (As Advised)	5.00	%	\$ 76,563
PROJECT MANAGEMENT & SUPERVISION (As Advised)	10.00	%	\$ 160,781
CONTINGENCY (As Advised)	20.00	%	\$ 353,719
LOOSE FURNITURE & EQUIPMENT (Excluded)	ITEM		\$ -

\$ **2,122,313**

ANTICIPATED TOTAL PROJECT COST (Excluding GST)

CLYDE DEVELOPER CONTRIBUTION PLAN COSTING

Active Recreation Projects

AR-54-04 Part B - Pavilion

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					COST
					COST
AR-54-04 Part B - Pavilion					
Oval & Soccer Pavilion					
Change rooms	(FECA)	M2	120	2,300	276,000
Umpires change room	(FECA)	M2	20	2,300	46,000
Toilet facilities	(FECA)	M2	40	2,400	96,000
Canteen	(FECA)	M2	20	2,700	54,000
Meeting / function room	(FECA)	M2	60	2,200	132,000
Storage facilities	(FECA)	M2	80	1,800	144,000
Office / first aid	(FECA)	M2	10	2,200	22,000
Internal / external toilets	(FECA)	M2	30	2,400	72,000
Verandas & canopies	(UCA)	M2	20	750	15,000
Site Works					
Site preparation & demolition		ITEM			34,000
Roads, footpaths and paved areas		ITEM			9,000
Boundary walls, fences and gates		ITEM			9,000
Outbuildings and covered ways		ITEM			4,000
Landscaping and Improvements		ITEM			26,000
External Services					
External stormwater drainage		ITEM			31,000
External sewer drainage		ITEM			16,000
External water supply		ITEM			8,000
External gas reticulation		ITEM			7,000
External fire protection		ITEM			7,000
External light & power		ITEM			23,000
External communications		ITEM			5,000

SUB-TOTAL SUB-TOTAL			\$	1,036,000
DDELINAINIADIES (Included Above)		0/	¢.	
PRELIMINARIES (Included Above)		%	\$	-
COST ESCALATION TO TENDER (Included Above)	-	%	\$	-
COST ESCALATION DURING CONSTRUCTION (Included Above)	-	%	\$	-
DESIGN FEES (As Advised)	5.00	%	\$	51,800
PROJECT MANAGEMENT & SUPERVISION (As Advised)	10.00	%	\$	108,780
CONTINGENCY (As Advised)	20.00	%	\$	239,316
LOOSE FURNITURE & EQUIPMENT (Excluded)	ITEM		\$	-

1,435,896

ANTICIPATED TOTAL PROJECT COST (Excluding GST)

CLYDE DEVELOPER CONTRIBUTION PLAN COSTING

Active Recreation Projects

AR-54-05 Part B - Pavilion

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DESCRIPTION		UNIT	QUANTITY	RATE	TOTAL COST
					COST
AR-54-05 Part B - Pavilion					
Oval & Soccer Pavilion					
Change rooms	(FECA)	M2	120	2,300	276,000
Umpires change room	(FECA)	M2	20	2,300	46,000
Toilet facilities	(FECA)	M2	40	2,400	96,000
Canteen	(FECA)	M2	20	2,700	54,000
Meeting / function room	(FECA)	M2	60	2,200	132,000
Storage facilities	(FECA)	M2	80	1,800	144,000
Office / first aid	(FECA)	M2	10	2,200	22,000
Internal / external toilets	(FECA)	M2	30	2,400	72,000
Verandas & canopies	(UCA)	M2	20	750	15,000
Site Works					
Site Works Site preparation & demolition		ITEM			34,000
		ITEM ITEM			34,000 9,000
Site preparation & demolition					
Site preparation & demolition Roads, footpaths and paved areas		ITEM			9,000
Site preparation & demolition Roads, footpaths and paved areas Boundary walls, fences and gates		ITEM ITEM			9,000 9,000
Site preparation & demolition Roads, footpaths and paved areas Boundary walls, fences and gates Outbuildings and covered ways		ITEM ITEM ITEM			9,000 9,000 4,000
Site preparation & demolition Roads, footpaths and paved areas Boundary walls, fences and gates Outbuildings and covered ways Landscaping and Improvements		ITEM ITEM ITEM			9,000 9,000 4,000
Site preparation & demolition Roads, footpaths and paved areas Boundary walls, fences and gates Outbuildings and covered ways Landscaping and Improvements External Services		ITEM ITEM ITEM ITEM			9,000 9,000 4,000 26,000
Site preparation & demolition Roads, footpaths and paved areas Boundary walls, fences and gates Outbuildings and covered ways Landscaping and Improvements External Services External stormwater drainage		ITEM ITEM ITEM ITEM			9,000 9,000 4,000 26,000
Site preparation & demolition Roads, footpaths and paved areas Boundary walls, fences and gates Outbuildings and covered ways Landscaping and Improvements External Services External stormwater drainage External sewer drainage		ITEM ITEM ITEM ITEM ITEM ITEM			9,000 9,000 4,000 26,000 31,000 16,000
Site preparation & demolition Roads, footpaths and paved areas Boundary walls, fences and gates Outbuildings and covered ways Landscaping and Improvements External Services External stormwater drainage External sewer drainage External water supply		ITEM ITEM ITEM ITEM ITEM ITEM ITEM			9,000 9,000 4,000 26,000 31,000 16,000 8,000
Site preparation & demolition Roads, footpaths and paved areas Boundary walls, fences and gates Outbuildings and covered ways Landscaping and Improvements External Services External stormwater drainage External sewer drainage External water supply External gas reticulation		ITEM ITEM ITEM ITEM ITEM ITEM ITEM			9,000 9,000 4,000 26,000 31,000 16,000 8,000 7,000

SUB-TOTAL SUB-TOTAL			\$	1,036,000
DDELINAINIADIES (Included Above)		0/	¢.	
PRELIMINARIES (Included Above)		%	\$	-
COST ESCALATION TO TENDER (Included Above)	-	%	\$	-
COST ESCALATION DURING CONSTRUCTION (Included Above)	-	%	\$	-
DESIGN FEES (As Advised)	5.00	%	\$	51,800
PROJECT MANAGEMENT & SUPERVISION (As Advised)	10.00	%	\$	108,780
CONTINGENCY (As Advised)	20.00	%	\$	239,316
LOOSE FURNITURE & EQUIPMENT (Excluded)	ITEM		\$	-

1,435,896

ANTICIPATED TOTAL PROJECT COST (Excluding GST)



7.11 Community facility costing sheets



PROWSE QUANTITY SURVEYORS PTY LTD

ABN 83 097 049 548 Suite 8, 13 Church Street, Hawthorn, Victoria 3122 Tel: (03) 9852 7811 Fax: (03) 9852 7044 W: www.prowseqs.com.au E: info@prowseqs.com.au

4 March 2014

Ref: 9847-01

Metropolitan Planning Authority Level 29, 35 Collins Street **Melbourne VIC 3000**

Attention: Ms. Alexandrea Malishev

Dear Alexandrea,

RE: CLYDE DCP – COMMUNITY PROJECTS MPA REFERENCE NO: COR/13/9508

As requested, we have prepared a cost study for the Development Contribution Plan for the above project, based on information received by us up to 4 March 2014.

Our estimate of the anticipated total cost is \$30,269,274 for a fixed price contract at July 2014 cost levels and a summary follows:

Anticipated Total Project Cost (excluding GST) (Fixed Price Contract – July 2014)	\$ 30,269,274
CO_54_06 Family and Children's Centre (Level 1)	\$ 4,324,182
CO_54_04 Family and Children's Centre (Level 1)	\$ 4,324,182
CO_54_03 Family and Children's Centre (Level 1)	\$ 4,324,182
CO_54_02 Family and Children's Centre (Level 1)	\$ 4,324,182
Clyde Creek Precinct CO_54_01 Family and Children's Centre (Level 1)	\$ 4,324,182
CO_53_04 Family and Children's Centre (Level 1)	\$ 4,324,182
Thompson's Road Precinct CO_53_01 Family and Children's Centre (Level 1)	\$ 4,324,182

Allowances for the following have been included in our estimate:

- Preliminaries and Design variable
- Cost escalation to a tender date of July 2014
- Cost escalation during construction
- Competitive tendering
- Design fees (5% as advised)
- Project management and supervision (10% as advised)
- Contingency (20% as advised)

Allowances for the following have been excluded from our estimate:

- Goods & Services Tax
- Cost escalation to tender after July 2014
- Authority contribution and headwork charges
- Adverse market conditions and rock excavation
- Abnormal ground conditions
- Loose furniture and equipment
- Hazardous material removal

This estimate is based on preliminary information. Assumptions have been made and these assumptions will require confirmation when further documentation becomes available.

We have attached the following documents for your information:

- Appendix A: Explanatory Notes (Ref C)
- Appendix B: Stage A Cost Plans (Ref C)

Yours faithfully

PROWSE QUANTITY SURVEYORS PTY LTD

JOE YEH



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CLYDE DEVELOPER CONTRIBUTION PLAN COSTING COMMUNITY FACILITIES Explanatory Notes

DATE

4/03/2014

REF

9847/C

Page

EXPLANATORY NOTES:

<u>Definition of Measurement of Building Area</u>

- Fully Enclosed Covered Area (FECA)

The sum of all such areas at all building floor levels, including basement (except unexcavated portions), floored roof spaces and attics, garages, penthouses, enclosed porches and attached enclosed covered way alongside buildings, equipment rooms, lift shafts, vertical ducts, staircases and any other fully enclosed spaces and usable area of the building, computed by measuring from the normal inside face of exterior walls but ignoring any projections such as plinths, columns, piers and the like which project from the normal inside face of exterior walls.

It shall not include open courts, light wells, connecting or isolated covered ways and net open areas of upper portions of rooms, lobbies, halls, interstitial spaces and the like which extend through the storey being computed.

- Unenclosed Covered Area (UCA)

The sum of all such areas at all building floor levels, including roofed balconies, open verandahs, porches and porticos, attached open covered way alongside buildings, undercrofts and usable space under buildings, unenclosed access galleries (including ground floor) and any other trafficable covered areas of the building which are not totally enclosed by full height walls, computed by measuring the areas between the enclosing walls or balustrade (ie from the inside face of the UCA excluding the wall or balustrade thickness). When the covering element (ie roof or upper floor) is supported by columns, is cantilevered or is suspended, or any combination of these, the measurements shall taken to the edge of the paving or to the edge of the cover, whichever is the lesser.

UCA shall not include eves overhangs, sun shading, awnings and the like where these do not relate to clearly defined trafficable covered areas, nor shall it include connecting or isolated covered ways.

- Gross Floor Area (GFA)

The sum of the "Fully Enclosed Area" and "Unenclosed Covered Area" as defined.

- Building Area (BA)

The total enclosed and unenclosed area of the building at all building floor levels measured between the normal outside face of any enclosing walls, balustrades and supports.

CLYDE DEVELOPER CONTRIBUTION PLAN COSTING COMMUNITY FACILITIES Explanatory Notes

DATE

4/03/2014

REF Page 9847/C

EXPLANATORY NOTES (Cont'd)

Building Costs per square meter

- The estimates provided are all-up estimates of the construction costs, they include allowance for labours, material, equipment, builder's preliminaries and overheads and profits.
- We have assumed the compliance of current building codes and Australian Standards would be the minimum requirement of the development. The development should achieve Council's expectation of standard quality and finishes of similar public assets.
- We have assumed the tender procurement for each development is through a competitive tendering process with no less than three selected tenderers to participate.
- We have assumed the form of contracting is an Australian Standard lump sum contract, such as AS4000.
- We have allowed for cost escalation to an anticipated tender date as noted. The estimates include cost escalation during the construction period of the development.
- A 5% of "Design Fees" has been allowed for in our cost estimates as per MPA's instruction
- A 10% of "Project Management & Supervision" cost has been allowed for in our cost estimates as per MPA's instruction.
- A 20% of "Contingency" has been allowed for in our cost estimates as per MPA's instruction
- The estimates exclude Goods and Services Tax (G.S.T)
- The estimates exclude cost associated with utilities connection, authority contribution and headworks charges
- The estimates exclude cost associated with working in significant sloping site, rock excavation and site decontamination.
- The estimates exclude allowance for loose furniture and equipment.
- The estimates are prepared based on the previous DCP costing that PQS involved in, such as Armstrong Creek East DCP, Armstrong Creek West DCP, Armstrong Creek Horseshoe Bend DCP, Ballarat West DCP, and also cost plans prepared for various local councils including City of Boroondara, Melton City Council, City of Port Phillip, Frankston City Council etc.



A P P E N D I X



CLYDE DEVELOPER CONTRIBUTION PLAN COSTING COMMUNITY FACILITIES Summary

DATE 4/03/2014

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ELEM	DESCRIPTION	UNIT	NETT COST	ON COST	TOTAL COST
	<u>COMMUNITY FACILITIES</u>				
	Thompson's Road Precinct				
CO_53_01	Family and Children's Centre (Level 1)	ITEM	3,119,900	1,204,282	4,324,182
CO_53_02	Branch Library & Community Centre (Level 3) - Excluded as advised	ITEM	-	-	-
CO_53_03	Community Care Hub / Host Home - Excluded as advised	ITEM	-	-	-
CO_53_04	Family and Children's Centre (Level 1)	ITEM	3,119,900	1,204,282	4,324,182
	Clyde Creek Precinct				
CO_54_01	Family and Children's Centre (Level 1)	ITEM	3,119,900	1,204,282	4,324,182
CO_54_02	Family and Children's Centre (Level 1)	ITEM	3,119,900	1,204,282	4,324,182
CO_54_03	Family and Children's Centre (Level 1)	ITEM	3,119,900	1,204,282	4,324,182
CO_54_04	Family and Children's Centre (Level 1)	ITEM	3,119,900	1,204,282	4,324,182
CO_54_05	Specialist Community Centre (Level 3) - Excluded as advised	ITEM	-	-	-
CO_54_06	Family and Children's Centre (Level 1)	ITEM	3,119,900	1,204,282	4,324,182
со	TOTAL OF COMMUNITY FACILITIES (Excl GST) (Fixed Price Contract - July 2014)				30,269,274

CLYDE DEVELOPER CONTRIBUTION PLAN COSTING	DATE	4/03/2014
COMMUNITY FACILITIES	GFA	839
CO-53-01 - Family and Children's Centre (Level 1)		
	REF	9847/C
	Page	2

ELEM	DESCRIPTION		UNIT	QUANTITY	RATE	TOTAL
						COST
	CO-53-01 - Family and Children's Centre (Level 1)					
	Foyer	(FECA)	M2	15	2,100	31,500
	Reception Desk	(FECA)	M2	12	2,300	27,600
	Community congregation area	(FECA)	M2	50	2,400	120,000
	Kindergarten Rooms (in 2 no. x 33 children)	(FECA)	M2	264	2,600	686,400
	MCH Rooms (in 2 no.)	(FECA)	M2	44	2,400	105,600
	Multi-purpose space	(FECA)	M2	80	2,400	192,000
	Meeting rooms (in 2 no.)	(FECA)	M2	24	2,400	57,600
	Kitchenettes (in 3 no.)	(FECA)	M2	24	2,800	67,200
	MCH waiting room	(FECA)	M2	12	2,400	28,800
	Office	(FECA)	M2	12	2,400	28,800
	Staff room	(FECA)	M2	20	2,400	48,000
	Children's toilet	(FECA)	M2	66	2,800	184,800
	Public Toilets	(FECA)	M2	64	2,600	166,400
	First aid room	(FECA)	M2	12	2,600	31,200
	Circulation, storage & services cupboards	(FECA)	M2	100	2,100	210,000
	Canopy & Verandah	(UCA)	M2	40	700	28,000
	Outdoor play space & playground	(OPEN)	M2	800	600	480,000
	Site Works					
	Site preparation & demolition		ITEM			100,000
	Roads, footpaths and paved areas		ITEM			25,000
	- Asphalt Carpark (in approx 30 cars)		M2	900	110	99,000
	Boundary walls, fences and gates		ITEM	300	110	12,000
	Outbuildings and covered ways		ITEM			12,000
	Landscaping and Improvements		ITEM			75,000
	External Services					
	External stormwater drainage		ITEM			85,000
	External sewer drainage		ITEM			56,000
	External water supply		ITEM			28,000
	External gas reticulation		ITEM			21,000
	External fire protection		ITEM			21,000
	External light & power		ITEM			85,000
	External communications		ITEM			7,000

SUB-TOTAL			\$	3,119,900
DDFLIMINADIFC (Included Above)		0/	ć	
PRELIMINARIES (Included Above)		%	\$	-
COST ESCALATION TO TENDER (Included Above)	-	%	\$	-
COST ESCALATION DURING CONSTRUCTION (Included Above)	-	%	\$	-
DESIGN FEES (As Advised)	5.00	%	\$	155,995
PROJECT MANAGEMENT & SUPERVISION (As Advised)	10.00	%	\$	327,590
CONTINGENCY (As Advised)	20.00	%	\$	720,697
LOOSE FURNITURE & EQUIPMENT (Excluded)	ITEM		\$_	-

4,324,182

ANTICIPATED TOTAL PROJECT COST (Excluding GST)

CLYDE DEVELOPER CONTRIBUTION PLAN COSTING	DATE	4/03/2014
COMMUNITY FACILITIES	GFA	839
CO-53-04 - Family and Children's Centre (Level 1)		
	REF	9847/C
	Page	3

VI	DESCRIPTION		UNIT	QUANTITY	RATE	TOTAL
						COST
	CO-53-04 - Family and Children's Centre (Level 1)					
	Foyer	(FECA)	M2	15	2,100	31,50
	Reception Desk	(FECA)	M2	12	2,300	27,60
	Community congregation area	(FECA)	M2	50	2,400	120,00
	Kindergarten Rooms (in 2 no. x 33 children)	(FECA)	M2	264	2,600	686,40
	MCH Rooms (in 2 no.)	(FECA)	M2	44	2,400	105,60
	Multi-purpose space	(FECA)	M2	80	2,400	192,00
	Meeting rooms (in 2 no.)	(FECA)	M2	24	2,400	57,6
	Kitchenettes (in 3 no.)	(FECA)	M2	24	2,800	67,2
	MCH waiting room	(FECA)	M2	12	2,400	28,8
	Office	(FECA)	M2	12	2,400	28,8
	Staff room	(FECA)	M2	20	2,400	48,0
	Children's toilet	(FECA)	M2	66	2,800	184,8
	Public Toilets	(FECA)	M2	64	2,600	166,4
	First aid room	(FECA)	M2	12	2,600	31,2
	Circulation, storage & services cupboards	(FECA)	M2	100	2,100	210,0
	Canopy & Verandah	(UCA)	M2	40	700	28,0
	Outdoor play space & playground	(OPEN)	M2	800	600	480,0
	Site Works					
	Site preparation & demolition		ITEM			100,0
	Roads, footpaths and paved areas		ITEM			25,0
	- Asphalt Carpark (in approx 30 cars)		M2	900	110	99,0
	Boundary walls, fences and gates		ITEM	300	110	12,0
	Outbuildings and covered ways		ITEM			12,0
	Landscaping and Improvements		ITEM			75,0
	External Services					
	External stormwater drainage		ITEM			85,0
	External sewer drainage		ITEM			56,0
	External water supply		ITEM			28,0
	External gas reticulation		ITEM			21,0
	External fire protection		ITEM			21,0
	Futamal light C manuar		ITEM			85,0
	External light & power		ITEM			•

SUB-TOTAL			\$	3,119,900
PRELIMINARIES (Included Above)		%	ć	
COST ESCALATION TO TENDER (Included Above)		%	ş ¢	-
COST ESCALATION TO TENDER (Included Above) COST ESCALATION DURING CONSTRUCTION (Included Above)		%	\$	-
DESIGN (As Advised)	5.00	%	\$	155,995
PROJECT MANAGEMENT & SUPERVISION (As Advised)	10.00	%	\$	327,590
CONTINGENCY (As Advised)	20.00	%	\$	720,697
LOOSE FURNITURE & EQUIPMENT (Excluded)	ITEM		\$_	-

ANTICIPATED TOTAL PROJECT COST (Excluding GST)

4,324,182

CLYDE DEVELOPER CONTRIBUTION PLAN COSTING COMMUNITY FACILITIES CO-54-01 - Family and Children's Centre (Level 1) REF 9847/C Page 4

ELEM	DESCRIPTION		UNIT	QUANTITY	RATE	TOTAL
						COST
	CO-54-01 - Family and Children's Centre (Level 1)					
	Foyer	(FECA)	M2	15	2,100	31,500
	Reception Desk	(FECA)	M2	12	2,300	27,600
	Community congregation area	(FECA)	M2	50	2,400	120,000
	Kindergarten Rooms (in 2 no. x 33 children)	(FECA)	M2	264	2,600	686,400
	MCH Rooms (in 2 no.)	(FECA)	M2	44	2,400	105,600
	Multi-purpose space	(FECA)	M2	80	2,400	192,000
	Meeting rooms (in 2 no.)	(FECA)	M2	24	2,400	57,600
	Kitchenettes (in 3 no.)	(FECA)	M2	24	2,800	67,200
	MCH waiting room	(FECA)	M2	12	2,400	28,800
	Office	(FECA)	M2	12	2,400	28,800
	Staff room	(FECA)	M2	20	2,400	48,000
	Children's toilet	(FECA)	M2	66	2,800	184,800
	Public Toilets	(FECA)	M2	64	2,600	166,400
	First aid room	(FECA)	M2	12	2,600	31,200
	Circulation, storage & services cupboards	(FECA)	M2	100	2,100	210,000
	Canopy & Verandah	(UCA)	M2	40	700	28,000
	Outdoor play space & playground	(OPEN)	M2	800	600	480,000
	Site Works					
	Site preparation & demolition		ITEM			100,000
	Roads, footpaths and paved areas		ITEM			25,000
	- Asphalt Carpark (in approx 30 cars)		M2	900	110	99,000
	Boundary walls, fences and gates		ITEM	300	110	12,000
	Outbuildings and covered ways		ITEM			12,000
	Landscaping and Improvements		ITEM			75,000
	External Services					
	External stormwater drainage		ITEM			85,000
	External sewer drainage		ITEM			56,000
	External water supply		ITEM			28,000
	External gas reticulation		ITEM			21,000
	External fire protection		ITEM			21,000
	External light & power		ITEM			85,000
	External communications		ITEM			7,000

SUB-TOTAL			\$	3,119,900
PRELIMINARIES (Included Above)		%	خ	
COST ESCALATION TO TENDER (Included Above)		%	\$ \$	-
COST ESCALATION DURING CONSTRUCTION (Included Above)		%	\$	-
DESIGN (As Advised)	5.00	%	\$	155,995
PROJECT MANAGEMENT & SUPERVISION (As Advised)	10.00	%	\$	327,590
CONTINGENCY (As Advised)	20.00	%	\$	720,697
LOOSE FURNITURE & EQUIPMENT (Excluded)	ITEM		\$_	

4,324,182

ANTICIPATED TOTAL PROJECT COST (Excluding GST)

CLYDE DEVELOPER CONTRIBUTION PLAN COSTING	DATE	4/03/2014
COMMUNITY FACILITIES	GFA	839
CO-54-02 - Family and Children's Centre (Level 1)		
	REF	9847/C
	Page	5

ELEM	DESCRIPTION		UNIT	QUANTITY	RATE	TOTAL
						COST
	CO-54-02 - Family and Children's Centre (Level 1)					
	Foyer	(FECA)	M2	15	2,100	31,500
	Reception Desk	(FECA)	M2	12	2,300	27,600
	Community congregation area	(FECA)	M2	50	2,400	120,000
	Kindergarten Rooms (in 2 no. x 33 children)	(FECA)	M2	264	2,600	686,400
	MCH Rooms (in 2 no.)	(FECA)	M2	44	2,400	105,600
	Multi-purpose space	(FECA)	M2	80	2,400	192,000
	Meeting rooms (in 2 no.)	(FECA)	M2	24	2,400	57,600
	Kitchenettes (in 3 no.)	(FECA)	M2	24	2,800	67,200
	MCH waiting room	(FECA)	M2	12	2,400	28,800
	Office	(FECA)	M2	12	2,400	28,800
	Staff room	(FECA)	M2	20	2,400	48,000
	Children's toilet	(FECA)	M2	66	2,800	184,800
	Public Toilets	(FECA)	M2	64	2,600	166,400
	First aid room	(FECA)	M2	12	2,600	31,200
	Circulation, storage & services cupboards	(FECA)	M2	100	2,100	210,000
	Canopy & Verandah	(UCA)	M2	40	700	28,000
	Outdoor play space & playground	(OPEN)	M2	800	600	480,000
	Site Works					
	Site preparation & demolition		ITEM			100,000
	Roads, footpaths and paved areas		ITEM			25,000
	- Asphalt Carpark (in approx 30 cars)		M2	900	110	99,000
	Boundary walls, fences and gates		ITEM	300	110	12,000
	Outbuildings and covered ways		ITEM			12,000
	Landscaping and Improvements		ITEM			75,000
	External Services					
	External stormwater drainage		ITEM			85,000
	External sewer drainage		ITEM			56,000
	External water supply		ITEM			28,000
	External gas reticulation		ITEM			21,000
	External fire protection		ITEM			21,000
	External light & power		ITEM			85,000
	External communications		ITEM			7,000

SUB-TOTAL			\$	3,119,900
PRELIMINARIES (Included Above) COST ESCALATION TO TENDER (Included Above) COST ESCALATION DURING CONSTRUCTION (Included Above)	-	% % %	\$ \$ \$	- - -
DESIGN (As Advised)	5.00		\$	155,995
PROJECT MANAGEMENT & SUPERVISION (As Advised)	10.00		\$	327,590
CONTINGENCY (As Advised) LOOSE FURNITURE & EQUIPMENT (Excluded)	20.00 ITEM	%	\$ \$	720,697 -

\$ **4,324,182**

ANTICIPATED TOTAL PROJECT COST (Excluding GST)

CLYDE DEVELOPER CONTRIBUTION PLAN COSTING	DATE	4/03/2014
COMMUNITY FACILITIES	GFA	839
CO-54-03 - Family and Children's Centre (Level 1)		
	REF	9847/C
	Page	6

ELEM	DESCRIPTION		UNIT	QUANTITY	RATE	TOTAL
						COST
	CO-54-03 - Family and Children's Centre (Level 1)					
	Foyer	(FECA)	M2	15	2,100	31,500
	Reception Desk	(FECA)	M2	12	2,300	27,600
	Community congregation area	(FECA)	M2	50	2,400	120,000
	Kindergarten Rooms (in 2 no. x 33 children)	(FECA)	M2	264	2,600	686,400
	MCH Rooms (in 2 no.)	(FECA)	M2	44	2,400	105,600
	Multi-purpose space	(FECA)	M2	80	2,400	192,000
	Meeting rooms (in 2 no.)	(FECA)	M2	24	2,400	57,600
	Kitchenettes (in 3 no.)	(FECA)	M2	24	2,800	67,200
	MCH waiting room	(FECA)	M2	12	2,400	28,800
	Office	(FECA)	M2	12	2,400	28,800
	Staff room	(FECA)	M2	20	2,400	48,000
	Children's toilet	(FECA)	M2	66	2,800	184,800
	Public Toilets	(FECA)	M2	64	2,600	166,400
	First aid room	(FECA)	M2	12	2,600	31,200
	Circulation, storage & services cupboards	(FECA)	M2	100	2,100	210,000
	Canopy & Verandah	(UCA)	M2	40	700	28,000
	Outdoor play space & playground	(OPEN)	M2	800	600	480,000
	Site Works					
	Site preparation & demolition		ITEM			100,000
	Roads, footpaths and paved areas		ITEM			25,000
	- Asphalt Carpark (in approx 30 cars)		M2	900	110	99,000
	Boundary walls, fences and gates		ITEM	300		12,000
	Outbuildings and covered ways		ITEM			12,000
	Landscaping and Improvements		ITEM			75,000
	External Services					
	External stormwater drainage		ITEM			85,000
	External sewer drainage		ITEM			56,000
	External water supply		ITEM			28,000
	External gas reticulation		ITEM			21,000
	External fire protection		ITEM			21,000
	External light & power		ITEM			85,000
	External communications		ITEM			7,000
<u> </u>						

SUB-TOTAL			\$	3,119,900
PRELIMINARIES (Included Above) COST ESCALATION TO TENDER (Included Above) COST ESCALATION DURING CONSTRUCTION (Included Above)	-	% % %	\$ \$ \$	- - -
DESIGN (As Advised)	5.00		\$	155,995
PROJECT MANAGEMENT & SUPERVISION (As Advised) CONTINGENCY (As Advised)	10.00 20.00		\$ \$	327,590 720,697
LOOSE FURNITURE & EQUIPMENT (Excluded)	ITEM		\$_	

\$ **4,324,182**

ANTICIPATED TOTAL PROJECT COST (Excluding GST)

CLYDE DEVELOPER CONTRIBUTION PLAN COSTING	DATE	4/03/2014
COMMUNITY FACILITIES	GFA	839
CO-54-04 - Family and Children's Centre (Level 1)		
	REF	9847/C
	Page	7

V	DESCRIPTION		UNIT	QUANTITY	RATE	TOTAL
						COST
	CO F4 O4 Femily and Children's Control (Lovel 4)					
	CO-54-04 - Family and Children's Centre (Level 1) Foyer	(FECA)	M2	15	2,100	31,50
	Reception Desk	(FECA)	M2	12	2,300	27,60
	Community congregation area	(FECA)	M2	50	2,400	120,00
	Kindergarten Rooms (in 2 no. x 33 children)	(FECA)	M2	264	2,600	686,40
	MCH Rooms (in 2 no.)	(FECA)	M2	44	2,400	105,60
	Multi-purpose space	(FECA)	M2	80	2,400	192,0
	Meeting rooms (in 2 no.)	(FECA)	M2	24	2,400	57,6
	Kitchenettes (in 3 no.)	(FECA)	M2	24	2,800	67,2
	MCH waiting room	(FECA)	M2	12	2,400	28,8
	Office	(FECA)	M2	12	2,400	28,8
	Staff room	(FECA)	M2	20	2,400	48,0
	Children's toilet	(FECA)	M2	66	2,800	184,8
	Public Toilets	(FECA)	M2	64	2,600	166,4
	First aid room	(FECA)	M2	12	2,600	31,2
	Circulation, storage & services cupboards	(FECA)	M2	100	2,100	210,0
	Canopy & Verandah	(UCA)	M2	40	700	28,0
	Outdoor play space & playground	(OPEN)	M2	800	600	480,0
	S					
	Site Works		17514			400.0
	Site preparation & demolition		ITEM			100,0
	Roads, footpaths and paved areas		ITEM	000	440	25,0
	- Asphalt Carpark (in approx 30 cars)		M2	900	110	99,0
	Boundary walls, fences and gates		ITEM			12,0
	Outbuildings and covered ways		ITEM			12,0
	Landscaping and Improvements		ITEM			75,0
	External Services					
	External stormwater drainage		ITEM			85,0
	External sewer drainage		ITEM			56,0
	External water supply		ITEM			28,0
	External gas reticulation		ITEM			21,0
	External fire protection		ITEM			21,0
			ITEN 4			85,0
	External light & power		ITEM			05,0

SUB-TOTAL			\$	3,119,900
PRELIMINARIES (Included Above)	-	%	\$	-
COST ESCALATION TO TENDER (Included Above)	-	%	\$	-
COST ESCALATION DURING CONSTRUCTION (Included Above)	-	%	\$	-
DESIGN (As Advised)	5.00	%	\$	155,995
PROJECT MANAGEMENT & SUPERVISION (As Advised)	10.00	%	\$	327,590
CONTINGENCY (As Advised)	20.00	%	\$	720,697
LOOSE FURNITURE & EQUIPMENT (Excluded)	ITEM		\$_	

4,324,182

ANTICIPATED TOTAL PROJECT COST (Excluding GST)

CLYDE DEVELOPER CONTRIBUTION PLAN COSTING	DATE	4/03/2014
COMMUNITY FACILITIES	GFA	839
CO-54-06 - Family and Children's Centre (Level 1)		
	REF	9847/C
	Page	8

ELEM	DESCRIPTION		UNIT	QUANTITY	RATE	TOTAL
						COST
	CO-54-06 - Family and Children's Centre (Level 1)					
	Foyer	(FECA)	M2	15	2,100	31,500
	Reception Desk	(FECA)	M2	12	2,300	27,600
	Community congregation area	(FECA)	M2	50	2,400	120,000
	Kindergarten Rooms (in 2 no. x 33 children)	(FECA)	M2	264	2,600	686,400
	MCH Rooms (in 2 no.)	(FECA)	M2	44	2,400	105,600
	Multi-purpose space	(FECA)	M2	80	2,400	192,000
	Meeting rooms (in 2 no.)	(FECA)	M2	24	2,400	57,600
	Kitchenettes (in 3 no.)	(FECA)	M2	24	2,800	67,200
	MCH waiting room	(FECA)	M2	12	2,400	28,800
	Office	(FECA)	M2	12	2,400	28,800
	Staff room	(FECA)	M2	20	2,400	48,000
	Children's toilet	(FECA)	M2	66	2,800	184,800
	Public Toilets	(FECA)	M2	64	2,600	166,400
	First aid room	(FECA)	M2	12	2,600	31,200
	Circulation, storage & services cupboards	(FECA)	M2	100	2,100	210,000
	Canopy & Verandah	(UCA)	M2	40	700	28,000
	Outdoor play space & playground	(OPEN)	M2	800	600	480,000
	Site Works					
	Site preparation & demolition		ITEM			100,000
	Roads, footpaths and paved areas		ITEM			25,000
	- Asphalt Carpark (in approx 30 cars)		M2	900	110	99,000
	Boundary walls, fences and gates		ITEM	300	110	12,000
	Outbuildings and covered ways		ITEM			12,000
	Landscaping and Improvements		ITEM			75,000
	External Services					
	External stormwater drainage		ITEM			85,000
	External sewer drainage		ITEM			56,000
	External water supply		ITEM			28,000
	External gas reticulation		ITEM			21,000
	External fire protection		ITEM			21,000
	External light & power		ITEM			85,000
	External communications		ITEM			7,000

SUB-TOTAL			\$ 3,119,900
PRELIMINARIES (Included Above)	-	%	\$ -
COST ESCALATION TO TENDER (Included Above)	-	%	\$ -
COST ESCALATION DURING CONSTRUCTION (Included Above)	-	%	\$ -
DESIGN (As Advised)	5.00	%	\$ 155,995
PROJECT MANAGEMENT & SUPERVISION (As Advised)	10.00	%	\$ 327,590
CONTINGENCY (As Advised)	20.00	%	\$ 720,697
LOOSE FURNITURE & EQUIPMENT (Excluded)	ITEM		\$ _

\$ **4,324,182**

ANTICIPATED TOTAL PROJECT COST (Excluding GST)



7.12 Concept interim road mid-block lengths

ROAD NUMBER	TOTAL LENGTH (m)
RD-53-01A	760
RD-53-01B	1100
RD-53-02	540
RD-53-03A	630
RD-54-01	1520
RD-54-02	1900
RD-54-03	1730**
RD-54-04	1105
RD-54-05	357*
RD-54-06	497*
RD-54-07	975*
RD-57.1-01	1000
RD-57.1-02	300

* VALUES PROVIDED BY MPA

^{**} ADDITIONAL 100m ADDED AT COUNCIL REQUEST FOR BALLARTO ROAD INTERFACE

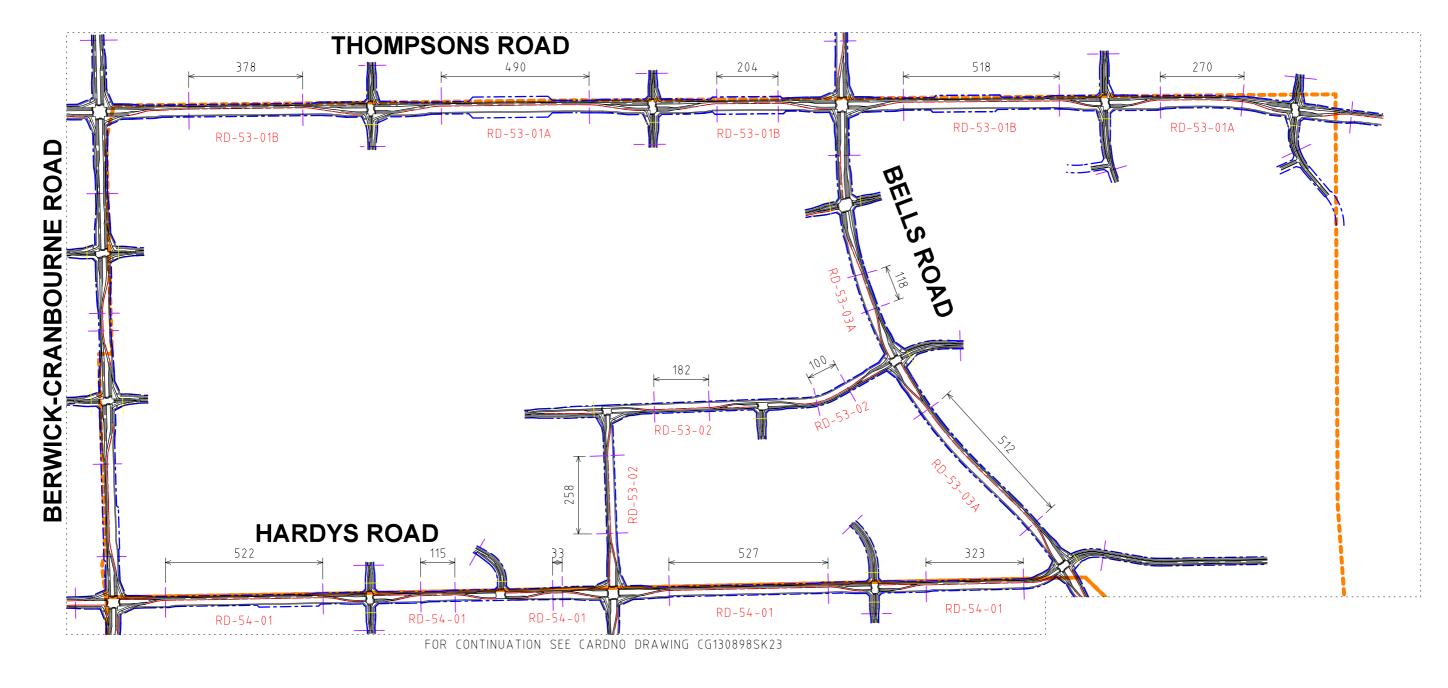


CLYDE DCP - LEGEND

CONCEPT PROPOSED TITLE BOUNDARYCLYDE DCPO BOUNDARY

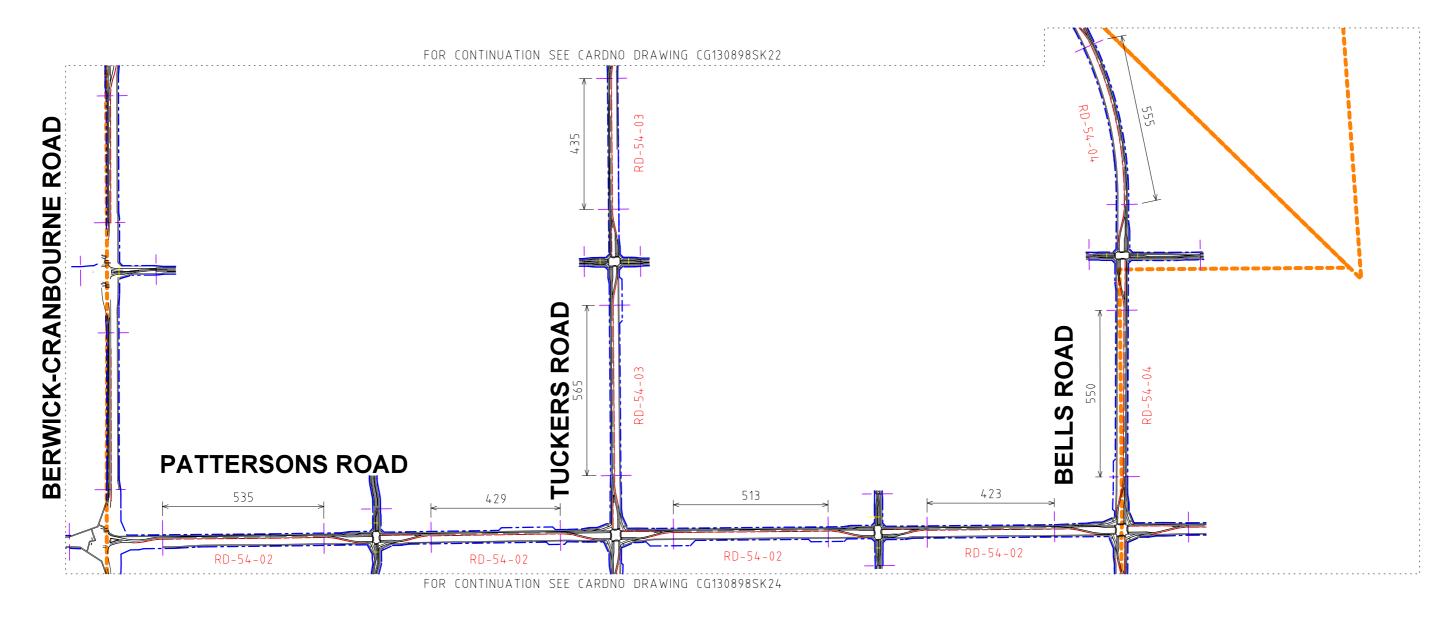
CG130898SK21 P3 - CLYDE DCP
CONCEPT INTERIM ROAD MID-BLOCK LENGTHS - TITLE PAGE
SCALE - 1:30000 @ A3 DATE - 07-04-15





CONCEPT PROPOSED TITLE BOUNDARY
CLYDE DCPO BOUNDARY

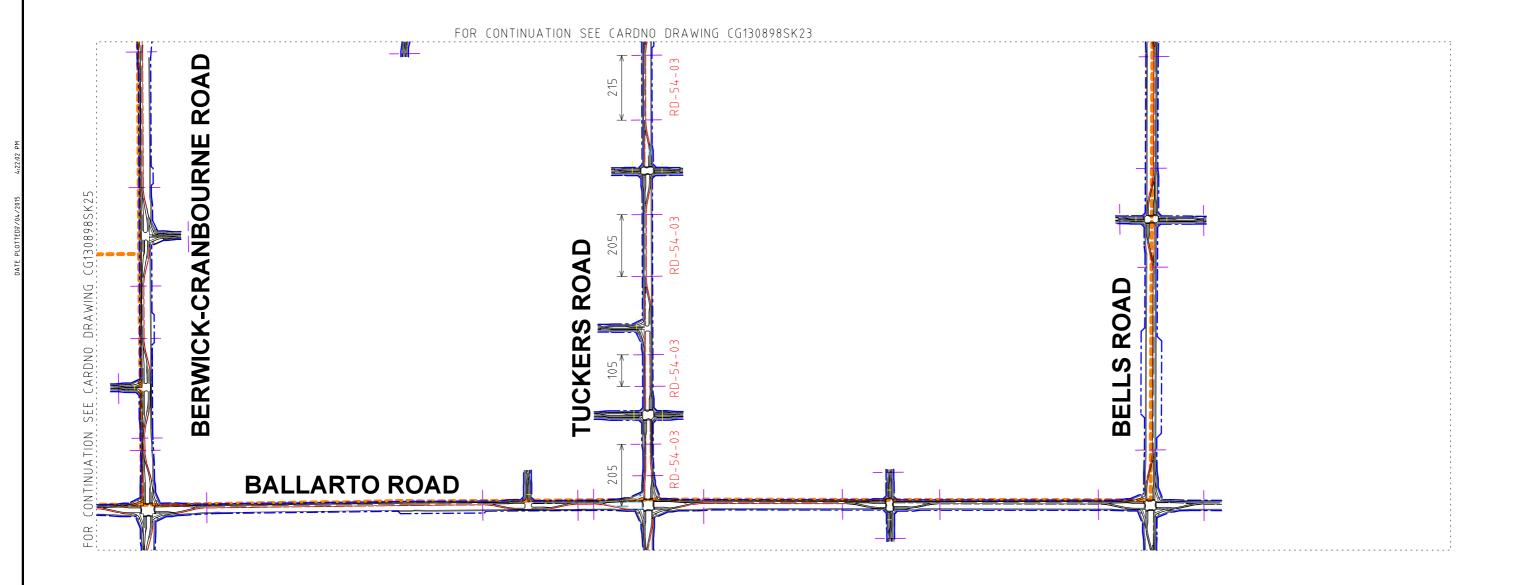
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CONCEPT PROPOSED TITLE BOUNDARY
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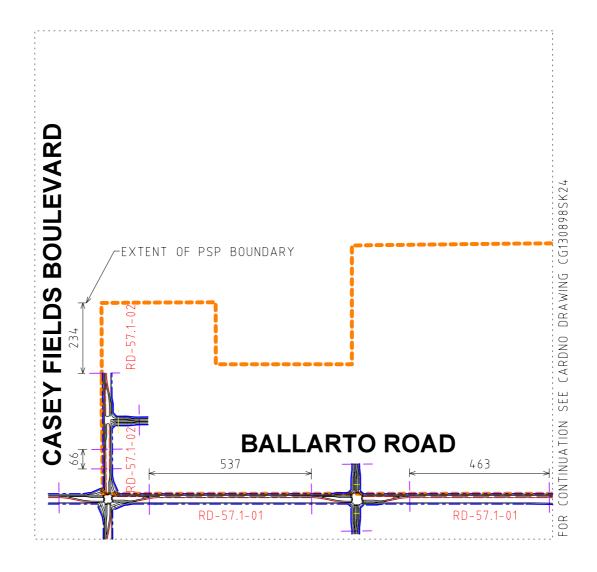
CG130898SK23 P2 - CLYDE DCP CONCEPT INTERIM ROAD MID-BLOCK LENGTHS SCALE - 1:12500 @ A3 DATE - 07.04.15 2





CONCEPT PROPOSED TITLE BOUNDARY
CLYDE DCPO BOUNDARY

CG130898SK24 P2 - CLYDE DCP CONCEPT INTERIM ROAD MID-BLOCK LENGTHS SCALE-1:12500 @ A3 DATE-07,04,15



CONCEPT PROPOSED TITLE BOUNDARYCLYDE DCPO BOUNDARY

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