

Report No. 1

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1 Revision Schedule

No.	Revision Date	DCP Amendment	State Planning Policy	Author
DCP 1	17/07/2023	Amendment 209	SPP 3.6 (2021)	Sally Murphy



2 Purpose

The purpose of this development contribution plan (DCP) report is to:

- enable the application of infrastructure contributions for the development of new, and the upgrade of existing infrastructure which is required as a result of increased demand generated in the Development Contribution Area (DCA)
- provide for the equitable sharing of the costs of infrastructure and administrative items between owners
- ensure that cost contributions are reasonably required as a result of the subdivision and development of land in the DCA
- coordinate the timely provision of infrastructure.

The following documents are relevant documents which coordinate the timely provision of the community infrastructure items:

- The Shire of Serpentine Jarrahdale Community Infrastructure Public Open Space Strategy adopted December 2016
- The Shire of Serpentine Jarrahdale Community Infrastructure Public Open Space Strategy 2020 (Draft)
- The Mundijong District Structure Plan 2020
- The Shire of Serpentine Jarrahdale Local Planning Strategy Number 3 (LPS 3) (Draft)
- The Shire of Serpentine Jarrahdale Strategic Community Plan 2017 2027
- The Shire of Serpentine Jarrahdale Corporate Business Plan 2020 24, and
- The Shire of Serpentine Jarrahdale Long Term Financial Plan 2020 2030.

3 Development Contribution Area

The DCA for this DCP is shown on the scheme map as DCA 3. A map is included in Figure 1.

4 Period of the plan

15 years, from 23 May 2023 to 23 May 2038.

5 Operation of the DCP

The Development Contribution plan and associated report have been prepared in accordance with State Planning Policy 3.6 - Infrastructure Contributions (SPP 3.6).

This DCP came into effect on the date of gazettal of Amendment 209 to Town Planning Scheme No. 2 (TPS2) to incorporate the plan.



The plan will operate in accordance with the provisions of Amendment 209, and Section 9 and Appendix 10 of TPS2.

6 Application requirements

Where an application for subdivision, strata subdivision, development or an extension of land use is lodged which relates to land to which this plan applies, the local government shall take the provisions of the plan into account in making a recommendation on, or determining, that application.

7 Items included in the plan

This section of the DCP Report identifies the infrastructure, land and other items for which development contributions will be collected in the DCA. These items include:

- District distributor roads and local roads playing a district function
- District Open Space facilities
- Land for public and district open space, and drainage
- Water monitoring costs, and
- Administration costs.

Infrastructure items included in the DCP reflect the provisions of the latest Mundijong District Structure Plan (see <u>Figure 2</u>) and are incorporated into this DCP through Amendment 209 to the Town Planning Scheme No. 2.

8 Estimated Costs

The costs allocated to this DCP have been derived based on the capital investment required for facilities generated by additional development in the DCA.

Initial cost estimates are undertaken by a suitably qualified professional and will be reviewed by a suitably qualified professional at each <u>Major Review</u> (as a minimum).

At each Minor Review the costs may be indexed using the previous year's annual escalation rate for "Road and Bridge Construction" in latest WALGA Quarterly Economic Briefing available at the time the DCP Report is adopted. Where deemed pertinent, some items may be reviewed by a suitably qualified professional.

The methodology applied for each item is detailed within Appendix O.

The associated costs for each DCP item exclude:

- Ongoing maintenance costs
- Demand for infrastructure that is generated by the current population



- Demand created by external usage (the proportion of the use drawn from outside the DCA
- Future usage (the proportion of usage that will be generated by future development outside the development contribution plan timeframe).

Due to the fragmented nature of the Mundijong-Whitby Urban area, and the uncertainty around where development will occur first, a consistent "per lot" rate is applied across the DCA.

This means that all new lots and qualifying new development within DCA3 will be required to contribute equally towards the identified DCP items.

Details of the cost apportionment can be seen in the Cost Apportionment Schedule in <u>Appendix A</u>.

Designs associated with the Infrastructure Items to be Constructed or Upgraded (where available) are included in <u>Appendix D</u>.

The cost breakdown (Schedule of Costs) are included in the appendices as follows:

- Appendix E: Land for Infrastructure (Roads and District Open Space)
- Appendix F: Land for Public Open Space and Drainage
- Appendix G: Infrastructure (summary)
- Appendix H: Administration Costs
- Appendix I: Water Monitoring
- Appendix O: Infrastructure Costing full break down

The Cost Review Reconciliation, which adjusts future costs based on historic development, is included in **Appendix J**.

An extract from the current Land Valuation which informs the land costs above, is available in **Appendix L**.

Note: Grants or other external Funding shall be shown as a deduction against the applicable item in the Cost Apportionment Schedule (Appendix A).

9 Land

9.1 Land Valuation

Many traditional infrastructure items include a land component. To determine the total cost of the items, an estimate of land value therefore needs to be identified.

Land to be acquired may be required for areas which can be categorised (through the land use zoning) as residential or non-residential. There is therefore a requirement for two separate rates; one for 'Residential' and one for 'Mixed Use/Non-Residential'.

Standard Residential/Non-Standard Residential

This rate is based on current valuation advice for an indicative R25 zoned 5 hectares with no servicing constraints within the Development Contribution Area.



Non-Residential/Mixed Use

This rate is based on a Mixed Use R60 zoned area within the planned commercial/town centre precinct. It has been assumed the typical land parcel is a regular shaped 5-hectare area with no major servicing constraints and no major geotechnical/environmental issues.

Pursuant to Clause 9.3.11 of TPS 2, the estimated land value will be reviewed at least annually.

The net land value is to be determined in accordance with the definition of "value" in TPS 2 s.9.3.12 and having general regard to the International Valuation Standards Committee's definition of market value as adopted by the Australian Property Institute. To account for the direct transfer of land, the fair market value should be discounted by standard marketing costs including fees, commissions and advertising cost.

The rate for residential and non-residential land is included in **Appendix L**.

9.2 Land for Infrastructure (Roads and District Open Space)

The DCP takes responsibility for acquiring land for District Open Space and Road Reserves (such as road widening or for new roads) associated with DCP infrastructure items.

The associated value of this land is credited to the DCP account of the landowner at the time of ceding. In respect of land for road reserves, DCP Credits only apply to the area in excess of the standard 20m. For example, if the road is 30m wide, only 10m width will be compensated for through this Development Contribution Plan.

This approach ensures transparency, equity (particularly in instances of fragmented ownership) and simplicity of calculation.

All land included within the DCP for Infrastructure Items (Roads and District Open Space), is detailed in **Appendix E**.

9.3 Land for Public Open Space and/or Drainage

A significant amount of land will be provided within the DCA for:

- A mix of multiple-use corridors with a dual drainage and recreation function, as well as land required for drainage only;
- Local and neighbourhood parks;
- Larger district-level playing fields including where provided to complement school playing fields.
- All land required for Public Open Space and Drainage (as prescribed within Liveable Neighbourhoods) is included within the Development Contribution Plan.

The associated value of this land is credited to the DCP account of the landowner at the time of ceding.

This approach ensures transparency, equity (particularly in instances of fragmented ownership) and simplicity of calculation.



How the amount of land for Public Open Space and Drainage is determined

Some detailed planning is in progress in the form of approved and draft LSPs. This level of planning allows for the specific identification of land areas required for drainage and/or Public Open Space. In such cases, data from the draft/adopted LSPs has been used to inform the calculations for land requirements.

There are however several areas within the DCA which have not yet been subject to the preparation of LSPs. To ensure that appropriate funds are collected to allow for the future purchase of land required for POS and drainage within these areas, it has been necessary to determine an estimated amount for some LSPs.

The following methodology has been applied:

- A review of LSPs and spatial data has been undertaken to identify the total amount of land covered by each LSP and the total amount of land required for Public Open Space and drainage.
- 2. From these totals, the percentage of land required for Public Open Space and drainage has been calculated.
- 3. Spatial data has been used to identify the total land area of areas in the DCA for which LSPs have yet to be prepared.
- 4. The percentage identified in step 2 has then been applied to the total identified in step 3 to generate an estimated amount of land required for Public Open Space and drainage in these areas.
- 5. The Public Open Space and drainage land areas identified in steps 1 and 4 are then added to identify a total estimate of land required for POS and drainage within the DCA.

Appendix F details the calculations for Public Open Space and Drainage land.

POS Items not included

State Policy provides a clear indication that the development of POS to a minimum standard, and maintenance for a minimum period, is at the developer's expense. As such, the development and initial maintenance of Public Open Space is not included within the Development Contribution Plan and will be the responsibility of the subdivider.

In addition, land identified as having conservation value, for example Bush forever sites or protected Wetlands, is excluded from the Development Contribution Plan.

While the Development Contribution Plan includes land for drainage purposes, it does not include drainage works themselves (i.e. earthworks, drainage infrastructure such as piping, pits, mechanical treatments, water sensitive urban design treatments or similar). These are considered subdivisional works, generally required by local water management strategies and urban water management plans.

Such drainage works are very difficult to calculate given the varying nature of drainage infrastructure and developers may treat drainage works in various ways to benefit their development. The requirement to provide optimal certainty in costing Development Contribution Plan items to achieve equity between developers, reinforces the need to exclude drainage works.



The drainage works contained within the proposed road infrastructure costings *are* permitted to be included, in accordance with SPP3.6.

10 Roads to be constructed or upgraded

Figure 3 shows the locations and extent of the Road Upgrades included in the DCP.

It is noted that costs associated with land to be acquired for infrastructure items within this DCP are costed separately to the construction costs, due to different indexation rates applied to the Construction component and the Land Value component.

Road Reserve Improvements Not Included

The amenity of urban areas can be substantially enhanced through public realm improvement works such as vegetation, hard landscaping, public art and higher design standards of infrastructure. Road reserves provide significant opportunities for amenity enhancement, especially in the case of wider reserves such as distributor roads and in the instance of split-carriageways. There is, however, not a clear nexus between development in a new urban area and its associated increase in traffic, and the need for general road reserve improvements.

Nonetheless, it should be noted that most developers undertake works to provide attractive streetscapes as a marketing feature, especially in the context of distributor and connector roads leading into new estates. As such, road reserve improvements, such as hard and soft landscaping and higher design standards of infrastructure, are not included in the DCP.

10.1 Bishop Road (East) (Integrator B) upgrade between Tonkin Highway reserve and Bett Road:

The road currently exists, but will require changes in width, alignment and configuration to support development envisaged under the Mundijong District Structure Plan. The road is also proposed to provide a direct connection to the future extension of Tonkin Highway. The width of Bishop Road will be 30 metres.

The following items are included in the Development Contribution Plan for Bishop Road (East):

- Land required in excess of a standard 20m reserve, to achieve a 30m wide road reserve, plus additional land where necessary to accommodate channelization and/or roundabout construction at the following intersections;
 - Taylor Road (Roundabout)
 - o Hopkinson Road (Roundabout)
 - Soldiers Road (Roundabout)
 - Bett Road (Roundabout)
- Earthworks for the whole road reserve;
- Complete road construction based on the Liveable Neighbourhoods Integrator B

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standard;

- Associated drainage works including water sensitive urban design measures;
- Traffic control devices including intersection treatments and associated works;
- Shared paths;
- Utility removal, relocation and insertion; and
- Associated costs including design, administration and management.

The following items are not included in the Development Contribution Plan for Bishop Road (East):

- Minor intersections treatments into the adjoining subdivisional road network. These will be subject to a standard truncation requirement;
- Any works carried out between Kargotich Road and the Tonkin Highway. This section of the road upgrade will be borne by the West Mundijong Industrial Development Contribution Plan; and
- Any intersection treatment with Tonkin Highway.

A detailed breakdown of the costing for this project is provided in <u>Appendix G</u>. The value of land associated with each project is included separately in <u>Appendix E</u>.

10.2 Taylor Road (Integrator B) upgrade between Bishop Road and Keirnan Street:

The road currently exists, but will require changes in width, alignment and configuration to support development envisaged under the Mundijong District Structure Plan. The width of Taylor Road will be 30m.

The following items are included in the Development Contribution Plan for Taylor Road:

- Land required in excess of a standard 20m reserve, to achieve a 30m wide road reserve, plus additional land where necessary to accommodate channelization and/or roundabout construction at the following intersections;
 - Keirnan Street (Roundabout)
- Earthworks for the whole road reserve;
- Complete road construction based on the Liveable Neighbourhoods Integrator B standard;
- Associated drainage works including water sensitive urban design measures;
- Traffic control devices including intersection treatments and associated works;
- Shared paths;
- Utility removal, relocation and insertion; and
- Associated costs including design, administration and management.



The following items are not included in the Development Contribution Plan for Taylor Road:

 Minor intersections treatments into the adjoining subdivisional road network. These will be subject to a standard truncation requirement.

A detailed breakdown of the costing for this project is provided in <u>Appendix G</u>. The value of land associated with each project is included separately in <u>Appendix E</u>.

10.3 Town Centre Distributor Road (Whitby New Road) (Integrator B) construction between Taylor Road and South Western Highway:

The road does not currently exist and will be required to support the development envisaged under the Mundijong District Structure Plan. The width of New Whitby Road will be 30 metres.

The following items are included in the Development Contribution Plan for New Whitby Road:

- Land required in excess of a standard 20m reserve, to achieve a 30m wide road reserve, plus additional land where necessary to accommodate channelization and/or roundabout construction at the following intersections;
 - Taylor Road (Roundabout)
 - Soldiers Road (Roundabout)
 - South Western Highway (Channelised Intersection)
- Earthworks for the whole road reserve;
- Complete road construction based on the Liveable Neighbourhoods Integrator B standard;
- Associated drainage works including water sensitive urban design measures;
- Traffic control devices including intersection treatments and associated works;
- Construction of one at-grade rail crossing;
- Costs associated with one rail crossing closure (Keirnan Street);
- Shared paths;
- Utility removal, relocation and insertion; and
- Associated costs including design, administration and management.

The following items are not included in the Development Contribution Plan for New Whitby Road:

• Minor intersections treatments into the adjoining subdivisional road network. These will be subject to a standard truncation requirement.

A detailed breakdown of the costing for this project is provided in **Appendix G**. The value of land associated with each project is included separately in **Appendix E**.



<u>Note:</u> The construction of the at-grade crossing is subject to agreement between the Road Manager and Rail Infrastructure Manager. The Local Government is responsible to manage communications between all stakeholders, obtain the required approvals and arrange for an Australian Level Crossing Assessment Model (ALCAM) Report and a Rail Safety Report to be undertaken.

Construction of the at-grade crossing should not be considered prior to the freight rail being realigned away from the Mundijong Urban area.

In the event that an at-grade rail crossing is not approved, the local government is to apply any funds already collected to an approved alternate crossing or if no crossing is approved any collected funds shall be applied to the Town Centre Distributor Road item generally or other items in the DCP.

10.4 North-South Road (Integrator B) construction between Watkins Road and Galvin Road:

The road does not currently exist and will be created through subdivision to support the development envisaged under the Mundijong District Structure Plan. The width of the North–South Road will be 30 metres.

The following items are included in the Development Contribution Plan for North-South Road:

- Land required in excess of a standard 20m reserve, to achieve a 30m wide road reserve plus additional land where necessary to accommodate channelization and/or roundabout construction at the following intersections;
 - Watkins Road (Roundabout)
 - Galvin Road (Roundabout)
- Earthworks for the whole road reserve;
- Complete road construction based on the Liveable Neighbourhoods Integrator B standard;
- Associated drainage works including water sensitive urban design measures;
- Traffic control devices including intersection treatments and associated works;
- Shared paths;
- Utility removal, relocation and insertion; and
- Associated costs including design, administration and management.

The following items are not included in the Development Contribution Plan for North-South Road:

 Minor intersections treatments into the adjoining subdivisional road network. These will be subject to a standard truncation requirement.

A detailed breakdown of the costing for this project is provided in **Appendix G**. The value of land associated with each project is included separately in **Appendix E**.

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10.5 Skyline Boulevard (Neighbourhood Connector A) construction between Town Centre Distributor Road (Whitby New Road) and Tinspar Avenue:

This is a new road that will be required to support the development envisaged under the Mundijong District Structure Plan. The width of Skyline Boulevard will be 25 metres.

The following items are included in the Development Contribution Plan for Skyline Boulevard:

- Land required in excess of a standard 20m reserve, to achieve a 25m wide road reserve, plus additional land where necessary to accommodate channelization and/or roundabout construction at the following intersections:
 - New Whitby Road (Roundabout)
 - Tinspar Avenue (Roundabout)
- Earthworks for the whole road reserve;
- Complete road construction based on the Liveable Neighbourhoods Connector A standard;
- Associated drainage works including water sensitive urban design measures;
- Traffic control devices including intersection treatments and associated works;
- Shared paths;
- Utility removal, relocation and insertion; and
- Associated costs including design, administration and management.

The following items are not included in the Development Contribution Plan for Skyline Boulevard:

• Minor intersections treatments into the adjoining subdivisional road network. These will be subject to a standard truncation requirement.

A detailed breakdown of the costing for this project is provided in <u>Appendix G</u>. The value of land associated with each project is included separately in <u>Appendix E</u>.

10.6 Tinspar Avenue (Neighbourhood Connector A) construction between Skyline Boulevard and South Western Highway:

This is a new road which will be required to support the development envisaged under the Mundijong District Structure Plan. The width of Tinspar Avenue will be 25 metres.

The following items are included in the Development Contribution Plan for Tinspar Avenue:

- Land required in excess of a standard 20m reserve, to achieve a 25m wide road reserve, plus additional land where necessary to accommodate channelization and/or roundabout construction at the following intersections:
 - Keirnan Street (Seagull Intersection)
 - South Western Highway (Channelised Intersection)



- Earthworks for the whole road reserve
- Complete road construction based on the Liveable Neighbourhoods Connector A standard;
- Associated drainage works including water sensitive urban design measures;
- Traffic control devices including intersection treatments and associated works;
- · Shared paths;
- Utility removal, relocation and insertion; and
- Associated costs including design, administration and management.

The following items are not included in the Development Contribution Plan for Tinspar Avenue:

 Minor intersections treatments into the adjoining subdivisional road network. These will be subject to a standard truncation requirement.

A detailed breakdown of the costing for this project is provided in <u>Appendix G</u>. The value of land associated with each project is included separately in <u>Appendix E</u>.

11 District Open Space to be constructed or upgraded

The Shire's Community Infrastructure and Public Open Space Strategy (CIPOS) outlines the general approach and philosophy in planning for community infrastructure and public open space in the Shire of Serpentine Jarrahdale. It provides a guiding document for current and future development relevant to this purpose.

The types of community infrastructure include sport, recreation, community, emergency, tourism and Shire administration requirements. These facilities are to cater for the growing pressures on local clubs, community groups and service providers, where the increasing population increases service delivery requirements. As part of the investigations of CIPOS, it has been identified that the Mundijong Urban area will require increased provision of District Open Space to support population growth.

The scope of construction of District Open Space included in this Development Contribution Plan is confined to land and below surface works including drainage, irrigation and grassing. Further above ground works are included within the Shire's Community Infrastructure Development Contribution Plan (CIDCP).

<u>Figure 4</u> provides a graphical representation of District Open Space projects included in this DCP.

It is noted that costs associated with land to be acquired for infrastructure items within this DCP are costed separately, due to different indexation rates applied to the Construction component and the Land Value component.

11.1 Whitby High School District Sporting Space (Shared project with the CIDCP)

The Community Infrastructure and Open Space Strategy identifies a district sports oval to be colocated with the planned high school site in Precinct A of the Mundijong District Structure Plan. A

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shared-use agreement is anticipated between the Department of Education and the Shire for the use of the oval established on the High School site, to facilitate the District function.

All community buildings and clubroom facilities are funded separately through the CIDCP.

The single playing field is to be designed to a minimum dimension of 205m x 175m (3.6 hectares).

- Earthworks:
- Grassing;
- Irrigation; and
- Associated costs relating to construction including design and management.

A detailed breakdown of the costing for this project is provided in <u>Appendix G</u>. The value of land associated with each project is included separately in <u>Appendix E</u>.

11.2 Keirnan Park Stage 3 District Sporting Space (Shared project with the CIDCP)

At this DCP revision, it is anticipated that enough grant funds will be available for the construction of the first oval. This has been reflected within the costs.

The Community Infrastructure and Open Space Strategy identifies Reserve 4395 along Keirnan Street, Mundijong, as being suitable to be developed as a Sporting Complex.

The Mundijong-Whitby Urban Traditional Infrastructure Development Contribution Plan includes for two senior-sized playing fields on site, as this will support a District function. The playing fields are to have a minimum dimension of 205m x 175m each (7.2 hectares).

The following items were included in the Development Contribution Plan:

- Earthworks;
- Grassing;
- Irrigation; and
- Associated costs relating to construction including design and management.

A detailed breakdown of the costing for this project is provided in <u>Appendix G</u>. The value of land associated with each project is included separately in <u>Appendix E</u>.

11.3 Taylor Road / Scott Road Primary School Neighbourhood Open Space

The Community Infrastructure Open Space Strategy identifies that this sporting space will be a senior sized AFL field. A shared use agreement is anticipated with the Department of Education.

The playing field will be accommodated wholly within a future Shire reserve, funded by the Mundijong-Whitby Urban Traditional Infrastructure Development Contribution Plan.

The single playing field is to be designed to a minimum dimension of 205m x 175m (3.6 hectares).

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The following items are included in the Development Contribution Plan

- Earthworks;
- Grassing;
- Irrigation; and
- Associated costs relating to construction including design and management.

A detailed breakdown of the costing for this project is provided in <u>Appendix G</u>. The value of land associated with each project is included separately in <u>Appendix E</u>..

12 Water Monitoring

The Mundijong Whitby District Water Management Strategy (DWMS) establishes a framework for water management in new urban development. This ensures that water quantity and quality design objectives can be achieved, and the concerns and risks identified by the Department of Water and Environmental Regulation (DWER) and the Water Corporation can be addressed. The DWMS reinforces the Shire's commitment to ensuring that water sensitive urban design principles are incorporated into new urban development.

The Shire will implement water quality and quantity monitoring within developments and wetlands guided by a Sampling and Analysis Plan that will be prepared on commencement of the program to confirm sampling and analysis arrangements.

It is proposed that monitoring will be carried out over 10 years with reports prepared annually and provided to stakeholders for review.

This approach will allow longer-term trends in water quality and quantity to be identified and monitored as the DCA3 is fully developed. Suitable remediation works or structural controls may be implemented to rectify any identified problems.

The monitoring program will include:

- 20 groundwater monitoring wells
- 10 surface water quality sampling sites
- 7 surface water level/flow monitoring sites
- 10 sediment sampling sites

Monitoring will be carried out at the following frequencies:

Year	Groundwater levels	Groundwater quality	Surface water flows /levels	Surface water quality	Sediment	
1	Monthly	4 x per year:	4 x per year:		1 x per	
2-10	Quarterly	Mar, Jun, Sep & Dec	Mar (baseline flush), Sep & C		year	



Water quality and sediment sampling will include the following parameters:

Group	Frequency	Groundwater	Surface water	Sediment
In-situ	All events	DO, Redox potential (Eh), EC, Temperature, pH		n/a
Physio-chemical	All events	n/a	Total Dissolved Solids (TDS)	n/a
Anions and nutrients	All events	TKN, NH4, NO3, DON, TN, TP and PO4 (FRP)		n/a
Metals	One annual event	Al, As, Cd, Cr, Cu, Fe, Pb, Ni, Zn and Hg		
Hydrocarbons	drocarbons One annual TRH, BTEX and PAH event			

It is likely that subdivision and development would not be approved within the Mundijong Whitby area without the approval and ongoing implementation of the Mundijong Whitby DWMS. As such, it is considered reasonable that the costs of, and associated with, the required water monitoring be funded by developers within DCA3.

The DCP will assume funding responsibility for the post development water-monitoring program required by the Mundijong Whitby DWMS.

District level sampling is anticipated to commence in 2028.

Appendix I gives a detailed breakdown of the costs associated with Water Monitoring.

13 Administration costs

All expended and estimated future costs associated with administration, planning, review and development of the District Structure Plan, District Water Management Plan/s, preparation and implementation of the Mundijong Urban Development Contribution Plan and any technical documents necessary for the implementation of the above, including:

- Planning studies;
- Traffic studies:
- Drainage studies;
- Road design costs where not allocated to specific road items under the DCP;



- Other related technical and professional studies;
- Legal costs;
- Valuations;
- Borrowing costs (including loan repayments); and
- Scheme management costs (including administration and management of the DCP).

In general, Administration costs of the DCP are broken down into Legal Expenses, expenses associated with advertising & consultancy, and proportional salary allocations for overhead personnel whose are involved in the general operation of the DCP(s). This allocation is reflective of the percentage of time the employee is expected to spend on work associated with the general running of the DCP. This does <u>not</u> include time spent on specific DCP funded infrastructure projects, which is captured within the individual project costings).

The Technical Specialist Infrastructure Contributions (previously titled "DCP Coordinator") is the only employee whose cost is 100% allocated across the DCPs.

It is noted that staff may also be required to spend time on specific DCP funded projects as part of the design and/or project delivery phase. Any such time/cost allocation is recorded separately and where allowable under the scope/costing for the project, will be recovered under those project costings.

A detailed breakdown of the administrative costs is provided in Appendix H.

14 Method of calculating contributions

14.1 Cost Share Apportionment - Land

The cost of land associated with road widening, public open space and district open space is shared equally across the DCA.

14.2 Cost Share Apportionment – Roads to be constructed or upgraded

The costs associated with construction and/or upgrade of roads are shared equally across the DCA.

14.3 Cost Share Apportionment – District Open Space to be constructed or upgraded

The costs associated with construction and/or upgrade of District Open Space are shared equally across the DCA.

14.4 Cost Share Apportionment – Water Monitoring

The costs associated with Water Monitoring within the DCA are shared equally across the DCA. Water Monitoring is a necessary enabler to subdivision and development.

Reference: E23/3065 Page 16 of 30 Shire of Serpentine Jarrahdale



14.5 Cost Share Apportionment – Administration

The costs associated with Administration Costs for this DCP are shared equally across the DCA, as the staff time and related activities which make up these costs are necessary for the preparation and ongoing management of the DCP.

14.6 Calculating the Lot/Dwelling Potential

The development contribution methodology is based on a per lot/dwelling basis (whichever is greater). Therefore, it is necessary to estimate the potential number of additional lots/dwellings to be created in the DCA. This estimate will be used to determine the development contribution rates per lot/dwelling for standard/non-standard residential, non-residential and mixed-use development.

The following methodology has been applied:

- A review of LSPs and spatial data has been undertaken to identify the estimated total lot/dwelling yield for each area covered by an approved or draft LSP, or approved subdivision/development application.
- The estimates for greenfield areas not yet subject to LSPs have been determined through identifying the total land area, deducting 40 percent (accounting for land required for public purposes such as roads, POS and drainage), and then determining the subdivision/development potential of the remaining land area based on its residential density coding.
- The lot/dwelling estimates for infill sites (i.e. existing urban) not yet subject to LSPs were
 determined through manual calculations of the development potential of each
 landholding based on the relevant residential density.
- By adding the lot/dwelling yields calculated in steps 1-3, the total estimated lot/dwelling yield for the Development Contribution Plan area has been identified.
- A 'Parent lot' deduction has been included within the total lot count. Parent lots do not generate a contribution requirement in the Development Contribution Plan.

As lots extinguish their liability to pay contributions, and/or an LSP is revised, the future lot count is updated accordingly at the next DCP Report Review.

The yield estimate calculated for mixed development is based on 15 lots per gross hectare to provide for infrastructure of subdivision works such as roads and drainage facilities to be transferred to the state / local government. Where individual lots do not require land to be transferred to the state / local government, 20 lots per gross hectare has been applied.

There are some instances where an LSP is not prepared for an area within the DCA. In those areas, the following approach has been taken to assess the lot yield and public open space considerations:

Land for public purposes (i.e. Roads, Public Open Space, drainage and similar) is expected
to be provided within non-structure planned areas. As such, a 40 percent deduction has
been applied to the total site area of each precinct.



• In the absence of finalised (or draft) LSPs depicting residential densities, an R25 code has been utilised to determine the lot/dwelling estimates for the non-structure planned areas.

See Appendix K for details on lots completed and remaining at this DCP Report revision.

The Total Cost allocated to the DCA and dividing this figure by the estimated number of future lots, gives the Contribution Per Lot Value for the DCA.

Allocated Cost / number of anticipated additional lots/dwellings = Contribution per Lot Value

The "Cost Apportionment Schedule" shows the split of costs by item and shows the total Contribution Per Lot value – See Appendix A.

14.7 Calculating the Contribution Rate between Cost Reviews

To ensure costs are current during the time between cost reviews, all costs will be escalated daily, calculated from the number of days since the last cost review (being the latest adopted DCP revision), using an annual escalation rate.

The annual escalation rates for Administration and Infrastructure reflect the forecasts in latest WALGA Quarterly Economic Briefing (the LGCI Forecasts table) available at the time the DCP Report is adopted. The Administration index reflects the LGCI Component "Employee Costs" and the Infrastructure index reflects the LGCI Component "Road and Bridge Construction". The Land Value index is provided as part of the independent Land Valuation (see Appendix L).

Escalation rates will separately apply to infrastructure costs, land costs and administration costs. The escalation rates will be set at each cost review. Given that the contribution rate entails items with different escalation rates, it is necessary to calculate a weighted escalation rate as follows:

 $ER = (\%IC/TC \times IER) + (\%LV/TC \times LVER) + (\%AC/TC \times AER)$, where:

- ER is the weighted Escalation Rate;
- DER is the daily escalation rate (ER/365);
- IC is the estimated Infrastructure Cost;
- LV is the estimated Land Value;
- AC is the estimated administration Cost, including water monitoring;
- TC is the Total Cost being IC + LV + AC;
- IER is the Infrastructure Escalation Rate;
- LVER is the Land Value Escalation Rate;
- AER is the Administration Escalation Rate; and
- D is the number of days since the last cost review.

Reference: E23/3065 Page 18 of 30 Shire of Serpentine Jarrahdale



The daily indexing of costs described above, means that at any point in time, the Contribution per Lot/m2 value will vary according to the number of days since the last Cost Review.

14.8 Calculating the Contribution liability for Landowners/Developers

The Mundijong Whitby Urban DCA is depicted on Plan 10C of Appendix 10 within the Shire of Serpentine Town Planning Scheme No. 2.

The Cost Contribution rate is to be calculated on a m2 basis based on the remaining developable land in the DCP Area identified in Plan 10C. The remaining DCP cost is shared proportionally across the remaining developable land in the DCP Area as follows:

(Remaining Cost / Remaining Developable land = \$ contribution rate per m2).

For simplicity of calculation, all Residential lots/dwellings will be calculated as an average R25 (350m2) lot. For Non-Residential subdivision or development, the actual lot area is used for the calculation.

A cost review is to be undertaken at least annually, at which time the Contribution rate will be established based on:

- Road Upgrades and Construction
- District Open Space Improvements
- Land required for Roads, POS, Drainage and DOS
- Water monitoring costs
- Administration Costs
- Yields and Lots completed and expected
- Escalation Rates

To ensure costs remain current between Cost Reviews, all costs will be calculated daily based upon an annual escalation rate to be established through the Cost Review. The start date for daily escalation is the approval date for the prevailing Cost Review.

The Contribution Rate is to be applied as follows where DER is the daily escalation rate, D is the number of days since the last cost review:

(i) Standard residential subdivision or development

The number of additional dwellings/lots being created at the time of subdivision/development multiplied by the applicable development contribution rate.

(Contribution rate per lot/dwelling x DER x D) x number of additional lots or dwellings being created = Required development contribution



(ii) Non-standard residential subdivision or development (e.g. Lifestyle village, retirement village, caravan park, park home estate or similar).

The number of additional dwellings, residential units or similar created at the time of subdivision/development multiplied by the applicable development contribution rate.

(Contribution rate per lot/dwelling x DER x D) x number of additional lots or dwellings being created = Required development contribution

(iii) Non-residential subdivision or development

A development contribution is required for the creation of non-residential lots based on the actual size and number of lots created (minus the equivalent of one lot), multiplied by the applicable development contribution rate. Where a subdivision creates a lot that accommodates an existing approved non-residential development, that lot shall be exempt from the requirement for a development contribution to be made. For clarity purposes, the area of the lot accommodating the existing approved non-residential development is to be subtracted from the overall subdivision area, before calculating the development contribution for the remaining balance of the subdivision area.

New non-residential development (including alterations and additions to existing non-residential development) will not be required to make a development contribution unless the new non-residential development results in increased traffic to the subject land, as identified by the information provided by the applicant in support of the development application for that new non-residential development. Where increased traffic is identified to occur, the applicable development contribution is to be calculated as follows:

Square metre rate x square metre size of land being developed (including alterations and additions) = Required development contribution

For new private education establishments and associated development, provided a shared use agreement for public access to district open space is agreed to the satisfaction of the Local Government, development contributions shall be levied at 0.3 percent of the total development costs of the site, as agreed with the Local Government based on the building licence application.

(iv) Mixed-use development

The R25 subdivision/development potential of the site, or the actual number of lots/dwellings being created at the time of subdivision/development, whichever is the greater (minus the equivalent of one lot or dwelling), multiplied by the applicable development contribution rate.

Based on the R25 site calculation:

(Contribution rate per lot/dwelling x DER x D) x (R25 subdivision/development potential of the site - the equivalent of one lot or one dwelling) = Required contribution rate

Based on the number of dwellings



(Contribution rate per lot/dwelling x DER x D) x (actual number of residential lots/dwellings being created - the first dwelling being created) = Required development contribution

Appendix B gives examples of the respective calculations.

Future Subdivision/Development Potential

It is acknowledged that land within the DCA may be developed to a residential density lower than that envisaged within the yield calculations. Such development may however allow for additional subdivision and/or development in the future.

Contributions will be required for the creation of additional lots/dwellings post-initial development at the time that those additional lots/dwellings are created. Such additional contributions will be required in accordance with the Development Contribution Plan.

It is important to note that where the land use is non-residential, the DCP liability will be incurred only once on any site area (footprint) provided the liability discharged is based on the full development potential of the lot. Subsequent non-residential development will not be liable for additional DCP contributions.

For example, multilevel non-residential development or ongoing development on the non-residential site will be exempt from further DCP liability; liability is based on the non-residential land "footprint". However, should there be subsequent *residential* development above the non-residential development footprint; additional contribution liability will be incurred for the additional residential dwellings.

15 Priority and timing of infrastructure delivery

Details of the priority/timing of infrastructure items can be seen in the Capital Expenditure Plan in **Appendix C.**

Timelines are based on the forecast rate of development and expected DCP funds from forecast contributions to be paid. This is reviewed annually and may be adjusted depending upon the rate of development and available DCA3 funds.

<u>Appendix M</u> contains the Infrastructure Delivery Status Report, in line with SPP 3.6 requirements, which details the planned timelines and any variation to these from the previous DCP revision.

16 Payment of contributions

An owner's liability to pay the owner's cost contribution to the local government arises on the earlier of:

- the local government recommending its approval on the deposited plan or survey strata plan of the subdivision of the owner's land within the development contribution area (subdivision/strata clearance);
- the commencement of any development on the owner's land within the development contribution area (typically triggered at Building Permit application); or
- the approval of a change or extension of use by the local government on the owner's



land within the development contribution area.

Where a subdivision is staged, the development contribution is payable only on those stages being cleared.

16.1 Form of Contributions

Pursuant to Clause 9.3.14 of TPS 2, conditions relating to development contribution requirements can, to the satisfaction of the Shire, be satisfied by:

- Cheque or cash
- Transferring to the local government or a public authority land in satisfaction of the cost contribution
- The provision of physical infrastructure
- Some other method acceptable to the local government, or
- Any combination of these methods.

16.2 Exemptions

Clause 9.3.13.3 of TPS 2 details specific exemptions for which a development contribution is not required.

17 DCP Credits

17.1 DCP Credits to offset Contributions

A landowner may gain DCP credits for provision of DCP infrastructure items (known as "Pre-Funding") and/or land ceded for road widening, POS/Drainage, and DOS.

DCP Credits can be used to offset DCP Contributions (within the same DCA). Credits must be "banked" (through ceding land or completion of pre-funded infrastructure), before they can be used to offset a Contribution liability.

DCP Credits will always be allocated to the registered landowner, as likewise, the liability for DCP Contributions is a liability of the landowner. Credits do not transfer upon sale of the land, unless a legal agreement between the seller, purchaser and the Shire is in place to enable this.

17.2 Credits for DCP Land Ceded

Credits are applicable for land included in the DCP for POS/Drainage, DOS and Road Reserves. The land value applied to credits, will be the land value published in the DCP Report Revision at the time the land is ceded (i.e. Subdivision Clearance).



17.3 Credits for Pre-Funding of DCP Infrastructure

17.3.1 Pre-Funding Agreement

The Shire will support pre-funding and delivery of the infrastructure, provided there are good reasons for doing so and in instances where:

- The works are necessary for the progression of an approved subdivision, or
- The Developer wishes to undertake works specified in the DCP and the Shire does not hold enough DCP funds to undertake the works and/or has not prioritised such works.

By way of an exchange of letters, the Shire and the Developer will agree the extent, composition and timing of the infrastructure works to be pre-funded. Once agreed, the works become the Approved Works. The Approved Works must be identified sufficiently to ensure the cost and quantities of completed and remaining works in that item can be quantified.

17.3.2 Acceptance of Works

The Developer shall ensure the works are:

- Undertaken in a proper and workmanlike manner
- In accordance with plans and specifications constituting the Approved Works, and
- Completed within the agreed period.

Following written notification from the Developer, that the Approved Works are complete as above, the Shire will confirm the delivery of the Approved Works to its satisfaction.

The Shire can modify, accept or reject the claim where justified, following review of standard and cost. Referral to the Mundijong Industry Reference Group for comment should be made where rejection of the claim is proposed.

17.3.3 Principles for Cost Recoupment

The recoup is to be based on the current Cost Estimate in accordance with the latest revision of the DCP Report whereby:

- The current cost estimate (excluding contingency allowance) as described in the prevailing DCP Report shall constitute the maximum claimable amount for the completed Approved Works
- If the actual cost of the works exceeds the escalated cost estimate, the developer may claim an additional amount, not exceeding the contingency allowance provided for this item of work. Such a claim shall be independently substantiated to the satisfaction of the Shire
- The cost estimate will be subject to escalation at the rate prescribed from time to time in the DCP Report, up to the time of agreed practical completion of the works.

Once Approved, costs claimed by the Developer/Landowner for the pre-funded works will be independently verified as reasonable and in line with DCP inclusions/exclusions.

DCP credits will only be allocated once agreement is reached on the final claim value for such works after the independent review has occurred.

The value of DCP Credits allocated is exclusive of GST.



17.4 Repayment of DCP Credit Balance

Where a developer or landowner has completed all their developments within the DCA and has no further holdings in the DCA, any resulting credit balance amount is held by the local government as a credit to the developer or landowner until sufficient funds are available in the DCP fund to cover the credited amount, taking consideration of planned or committed expenditure at that time.

All credit balance repayment requests during the operation of the DCP, and which qualify for consideration (as per above), will be subject to a council report, and determined by Council. The credit is then reimbursed to the developer or landowner as soon as circumstances permit.

Requests for repayment of a credit balance, once development and landholdings applicable to that developer/landowner within the DCA are complete, should be made in writing to developmentcontributions@sjshire.wa.gov.au.

At the completion of the DCP, all credit balances are to be repaid no later than 90 days from the end date of the DCP.

18 Review

18.1 Major Review (5 Yearly)

In addition to the Annual Review provisions identified below, the Development Contribution Plan will be reviewed five years from the date of gazettal of the local planning scheme, or amendment to the local planning scheme to incorporate or amend the plan, or earlier should the local government consider it appropriate, having regard to the rate of development in the area and the degree of development potential still existing.

There is a statutory obligation for the Shire to advertise and seek comment on a major review of a DCP report. In addition to the statutory provisions, the Shire will consult with the Mundijong Industry Reference Group (MIRG).

18.2 Annual (Minor) Review

The DCP Report which accompanies the Plan, is to be reviewed at least annually. The following contribution rate inputs will be revised as part of this review:

- Remaining infrastructure costs
- Remaining land acquisition costs
- Remaining water monitoring costs
- Future administration Costs
- Remaining lots, and
- Cost Review Reconciliation* surplus or deficit to date.

*The Cost Review Reconciliation is an adjustment made in each revision to adjust for any overcollection or under-collection of DCP contributions versus DCP expenditure. DCP contributions



are always based on an estimate of future costs, whereas DCP expenditure is based on actual values. Any variance at the end of the prevailing DCP Report revision, is therefore adjusted on the "Reconciliation" line in the Cost Apportionment Spreadsheet, to assist the DCP in achieving the ultimate goal of breaking-even at its closure.

There is no statutory obligation for the Shire to advertise or seek comment on the minor annual review of a DCP report, however where the costing and details of the DCP Report are:

- revised based on accounting for completed works
- revised based on construction cost increases/decreases
- revised based on land value increases/decreases
- revised based on revisions to the anticipated undeveloped lot yield; and
- not subject to other material change

the Shire will consult with the Mundijong Industry Reference Group (MIRG).

It is noted that SPP 3.6 requires an Annual Status Report to be prepared by the local government providing an overview of progress of the delivery of infrastructure specified in the DCP, which is to be published on the local government's website, within 6 months of Financial Year End. It therefore does not form part of this DCP Report.

The Annual Report will be available on the Shire's website for each respective DCP, by no later than end December of each Financial Year: <u>Infrastructure Contributions » Shire of Serpentine Jarrahdale (sjshire.wa.gov.au)</u>

18.2.1 Updates to Infrastructure Cost Estimates

Cost estimates will be updated annually.

For the purposes of the cost reviews, infrastructure costs may be reviewed in full by an appropriately qualified person or may be indexed based on the Building Cost Index or other appropriate index.

The Cost of Land will be updated annually, in accordance with section 9.1 of this report.

The Cost Apportionment Schedule will identify and adjust/apportion any funding received/required from non-DCP sources (e.g. grants or any "Shire-Share" portion of costs).

18.2.2 Cost Review Reconciliation

The Cost Review Reconciliation is an adjustment made in each revision to adjust for any over-collection or under-collection of DCP contributions versus DCP expenditure. DCP contributions are always based on an estimate of future costs, whereas DCP expenditure is based on actual values. Any variance at the end of the prevailing DCP Report revision, is therefore adjusted on the "Reconciliation" line in the Cost Apportionment Spreadsheet, to assist the DCP in achieving the ultimate goal of breaking-even at its closure.

At each Cost Review, the net balance of contributions and expenditure will be calculated.

Reference: E23/3065 Page 25 of 30 Shire of Serpentine Jarrahdale



This net balance accounts for all contributions due from development in the previous development periods (no account is taken of contributions paid, i.e. cash received) and all expenditure (including credits earnt, whether reimbursed or held on account).

A Cost Review can result in a surplus or deficit at the date of review. A surplus means the total contributions arising from development has exceeded the total costs incurred at the review date. A deficit means that the total contributions arising from development were less than the total costs incurred at the review date.

Future Mundijong-Whitby Urban Traditional Infrastructure Development Contribution Plan contribution rates account for this surplus or deficit, as well as future costs and lots yet to be developed.

Over the life of the Development Contribution Plan, the methodology employed should see the annual surpluses and deficits cancel out, to result in a break-even position for the DCP at the end of its lifespan.

Appendix J details the annual cost review outcomes from the latest review and any adjustment required for the following DCP Report period.

Appendix N contains the DCP Dashboard Summary for the DCP to date.

Reference: E23/3065 Page 26 of 30 Shire of Serpentine Jarrahdale

19 Figures

Figure 1 – Development Contribution Area 3 (DCA3) Boundary

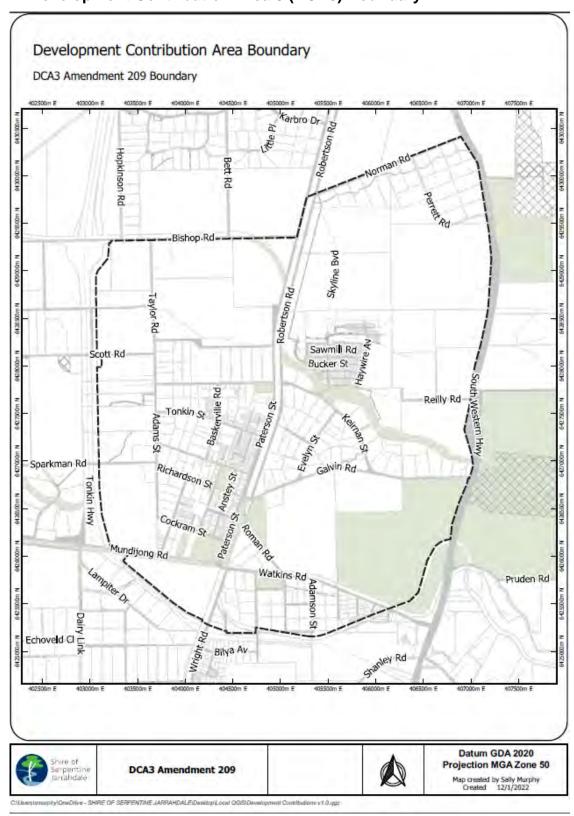
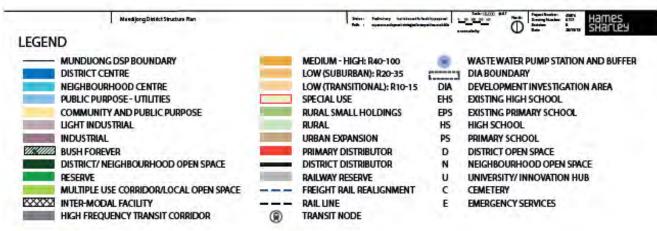




Figure 2 – Mundijong District Structure Plan 2020





Reference: E23/3065 Page 28 of 30 Shire of Serpentine Jarrahdale

Figure 3 – Roads to be constructed/upgraded

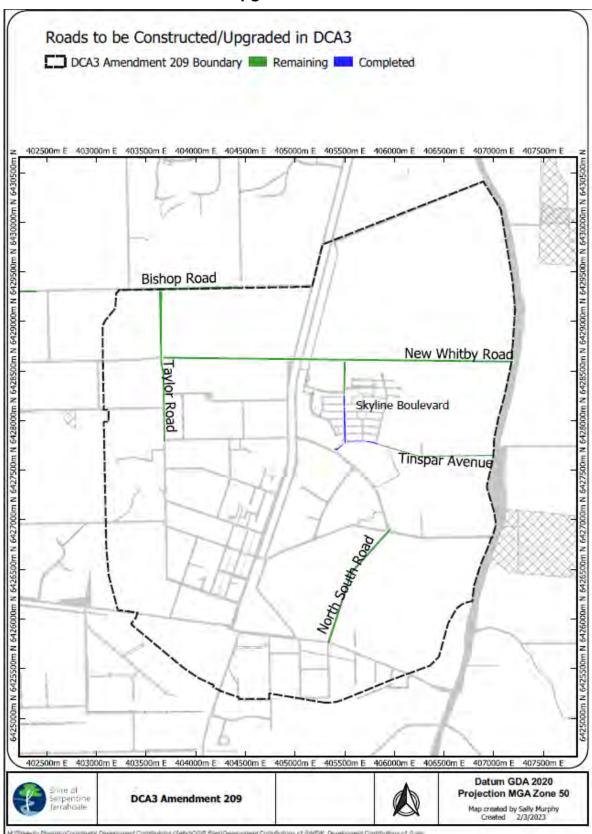
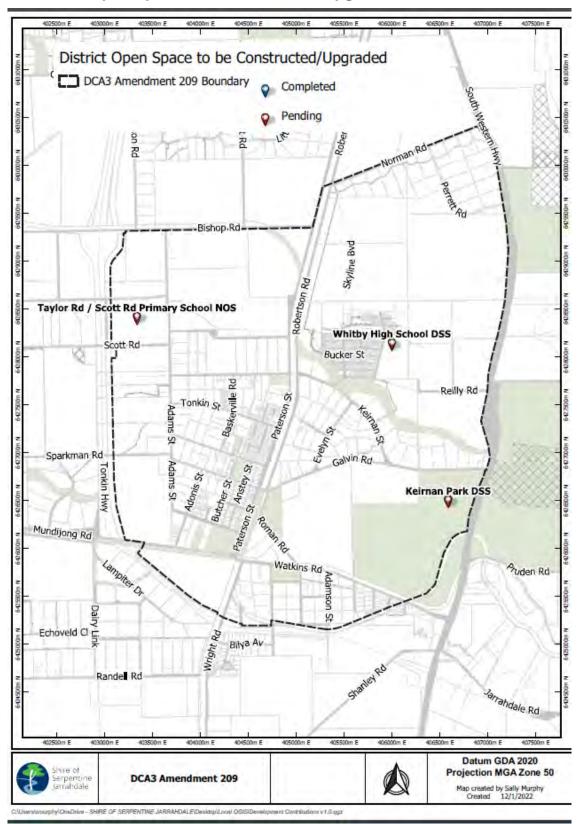
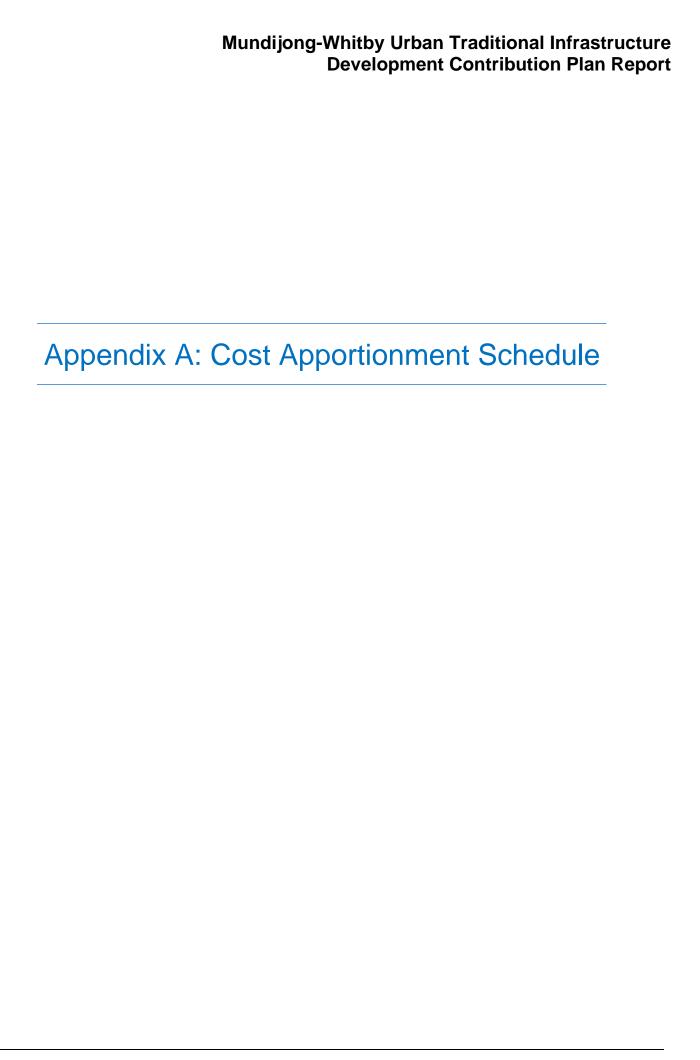


Figure 4 – District Open Space to be constructed/upgraded



Appendices



Previous Revision Variance prev rev

Cost Apportionment Schedule	DCA3_		А	В	с	D	E	F	G
Revision Number	1	Residential - Starting Contribution Per Lot	\$11,217.16						
Revision Date	17/07/23	Residential Daily Index Value	\$0.8446						
Ave Res Lot Size	350	Non-Res - Starting Contribution per m2	\$32.05						
Status	Final	Non-Res Daily Index Value	\$0.0024						

Index values:	FC IER	2.80%
WALGA Economic Briefing - March	FC LVER	2.50%
2023	FC AER	3.80%

	Land	l Value	LVDER
Residential	\$	30.00	\$0.002
Non Residential	\$	30.00	\$0.002

Infrastructure Plan Estimates						Dwelling Yields			Contribution Breakdown per Lot								
Item Name	Escalation Category	Completion_Date	Total Project Cost	Less Grants / Other	Less Shire Share	Completed To Date	Remaining Project Cost this DCP Rev	Contributing Precincts	Total Contributing Lots	Remaining Contributing Lots	By Item	Precinct A					
Reconciliation	n/a		\$0	\$0	\$0		ŚO	A	8459	8459	\$0.00	\$0.00					
Land_LSP (POS)	LVER		\$19,325,850	\$0				A	8459	8459	\$2,284.57	\$2,284.57					
Land_Infra (DOS_Roads)	LVER		\$5,165,670	\$0				A	8459	8459	\$610.65	\$610.65					
Administration	AER		\$1,400,472	\$0				A	8459	8459	\$165.55	\$165.55					
Water Monitoring	AER	2038	\$1,031,650	\$0	\$0			A	8459	8459	\$121.95	\$121.95					
Whitby High School DSS (Reilly Rd)	IER	2035	\$4,328,000	\$0	\$0			Α	8459	8459	\$511.63	\$511.63					
Taylor Rd/Scott Rd Primary School NOS	IER	2033	\$4,328,000	\$0	\$0	\$0		Α	8459	8459	\$511.63	\$511.63					
Keirnan Park DSS - 1b: Ovals	IER	2034	\$4,295,984	-\$1,288,290	\$0			Α	8459	8459	\$355.55	\$355.55					
Bishop Road East	IER	2028	\$11,415,959	\$0				A	8459	8459	\$1,349.52	\$1,349.52					
Taylor Road	IER	2027		\$0				A	8459	8459	\$1,382.19	\$1,382.19					
Town Centre Distributor Road	IER	2028	\$17,485,755	\$0				A	8459	8459	\$2,067.05	\$2,067.05					
North South Road	IER	2031	\$6,822,168	\$0				Α	8459	8459	\$806.47	\$806.47					
Skyline Boulevard	IER	2033	\$2,734,156	\$0				A	8459	8459	\$323.21	\$323.21				4	
Tinspar Avenue	IER	2036	\$6,151,575	\$0	\$0	\$0	\$6,151,575	A	8459	8459	\$727.20	\$727.20				4	
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Appendix B: Example Calculations

EXAMPLE CALCULATIONS: Note, for simplicity, daily indexing has not been applied to the below examples.

DCA: DCA3_ Report Revision: 1

Example 1

A residential subdivision creating 50 lots within Precinct A, with one existing parent lot:

Precinct	Development Contribution Rate per lot/dwelling	Number of additional lots/dwellings	Total development contribution	Calculation
Α	\$11,217.16	49	\$549,640.61	\$11,217.16 x (50 - 1) = \$549,640.61

Example 2

A residential subdivision in Precinct A, creating 50 lots, with one existing parent lot AND providing 10,000 m2 of creditable public open space / drainage residential land)

Note: creditable land must be cleared before, or at the same time, as the lot clearance in order to be offset against contributions due. Credits that are not yet earnt/cleared cannot be used to offset Contributions due.

Precinct	Development Contribution Rate per lot/dwelling	Number of additional lots/dwellings	Total development contribution	Calculation
A	\$11,217.16	49	\$549,640.61	\$11,217.16 x (50 - 1) = \$549,640.61
Public open space credit	m2 of land being provided	Land value per m2	Credit amount	Calculation
	10,000	\$30.00	\$300,000.00	\$10,000.00 x 30 = \$300,000.00
		Total net development contribution	\$249,640.61	\$549,640.61 - \$300,000.00 = \$249,640.61

Example 3

A non-residential subdivision creating a $4000 \, \text{m}^2$ lot within Precinct A

Precinct	Development Contribution Rate per m2	Parent Lot Discount	Total development contribution	Calculation
А	\$32.05	N/A	\$128,196.06	(\$32.05 x 4,000m2)= \$128,196.06



Appendix C: Capital Expenditure Plan



Appendix D: Infrastructure Designs

Not applicable

Appendix E: Schedule of Costs - Land for Infrastructure (Roads & District Open Space)

SCHEDULE OF COSTS

Land for Infrastructure

Infrastructure Land - Estimated and Completed

 DCA:
 DCA3_
 Residential Land Value (this revision):
 \$3.00

 Report Revision:
 1
 Non-Residential Land Value (this revision):
 \$3.00

		STIMATED TOTAL	Infra Land m2			COMPLETE	Infra Land m2			REMAINING Infra Land m2				
	-	STIIVIATED TOTAL	. IIIITA LAIIU IIIZ			COMPLETEL	illira Lanu inz			REWAINING	ilira Lanu iliz			
Infrastructure Item:	Residential	Non-Residential		Var previous Revision	Residential	Non- Residential		Var previous Revision		Non- Residential	Total	Var previous Revision		
Totals:	172,189	-	172,189	172,189	-	-	-	-	172,189	-	172,189	172,189		
Whitby High School DSS (Reilly Ro	39,514	-	39,514	39,514	-	-	-	0	39,514.00	-	39,514	39,514		
Taylor Rd/Scott Rd Primary School	40,000	-	40,000	40,000	-	-	-	0	40,000	-	40,000	40,000		
Keirnan Park DSS - 1b: Ovals	-	-	-	0	-	-	-	0	-	-	-	0		
Bishop Road East	12,450	-	12,450	12,450	-	-	-	0	12,450	-	12,450	12,450		
Taylor Road	15,000	-	15,000	15,000	-	-	-	0	15,000	-	15,000	15,000		
Town Centre Distributor Road	36,150	-	36,150	36,150	-		-	0	36,150	-	36,150	36,150		
North South Road	13,000	-	13,000	13,000	-	-	-	-	13,000	-	13,000	13,000		
Skyline Boulevard	7,800	-	7,800	7,800	-	-	-	0	7,800	-	7,800	7,800		
Tinspar Avenue	8,275	-	8,275	8,275	-	-	-	0	8,275	-	8,275	8,275		
	-	-							-	-				
	-	-							-	-				
	-	-							-	-				
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	-	-							-	-				
	-	-							-	-				
	-	-							-	-				

	ESTIMATED	TOTAL Land \$			COMPLE	TED Land \$		REMAINING Land \$				
	Non-		Var previous		Non-		Var previous		Non-		Var previous	
Residential	Residential	Total	Revision	Residential	Residential	Total	Revision	Residential		Total	Revision	
\$5,165,670	\$0	\$5,165,670	\$5,165,670						\$0	\$5,165,670	\$5,165,670	
\$1,185,420												
\$1,200,000	\$0											
\$0	\$0		\$0						\$0	\$0		
\$373,500	\$0	\$373,500	\$373,500						\$0	\$373,500	\$373,500	
\$450,000												
\$1,084,500			\$1,084,500							\$1,084,500	\$1,084,500	
\$390,000	\$0	\$390,000	\$390,000	\$0					\$0			
\$234,000	\$0			\$0			\$0					
\$248,250	\$0	\$248,250	\$248,250	\$0	\$0	\$0	\$0	\$248,250	\$0	\$248,250	\$248,250	

Appendix F: Schedule of Costs - Land for Public Open Space & Drainage

SCHEDULE OF COSTS

POS Completed and Remaining

 DCA:
 DCA3_
 Residential Land Value (this revision):
 \$30.00

 Report Revision:
 1
 Non-Residential Land Value (this revision):
 \$30.00

		ESTIMATED TOTAL Land m2				COMPLETE	D Land m2		REMAINING Land m2			
Structure Plan Areas		Non- Var previous				Var previous dential Non-Residential Total Revision				Non- Residential		Var previous Revision
Totals:	644,195		644,195	644,195		-	-	-	Residential 644,195		644,195	644,195
	-											

	ESTIMATED	TOTAL Land \$			COMPLET	TED Land \$			REMAININ	IG Land \$	
			Var				Var				Var
	Non-		previous		Non-		previous		Non-		previous
Residential	Residential	Total	Revision	Residential	Residential	Total	Revision	Residential	Residential	Total	Revision
\$19,325,850	\$0	\$19,325,850	\$19,325,850	\$0	\$0	\$0	\$0	\$19,325,850	\$0	\$19,325,850	\$19,325,850

Structure Plan Areas	Residential	Residential	Total	Revision	Residential	Non-Residential	Total	Revision	Residential	Residential	Total	Revision
Totals:	644,195	-	644,195	644,195		-	-	-	644,195	-	644,195	644,195
	-	-										
Previous DCP Revision Comparison	DCP 0					Residential Land Va Residential Land Va						
		ESTIMATED TO	TAL Land m2			REMAINING Land m2						
		Non-								Non-		
Structure Plan Areas	Residential	Residential	Total		Residential	Non-Residential	Total		Residential	Residential	Total	
Totals:	-	-	-			-	-			-	-	

ESTIMATED TOTAL Land \$				COMPLETED Land \$				REMAINING Land \$			
	Non-				Non-				Non-		
Residential	Residential	Total		Residential	Residential	Total		Residential	Residential	Total	
\$0	\$0	\$0		\$0	\$0	\$0		\$0	\$0	\$0	

Appendix G: Schedule of Costs – Infrastructure to be constructed/upgraded

Infrastructure Construction - Estimated and Completed

DCA: DCA3_ Report Revision: 1

	ESTIMATED TOT	AL Infra Cost this	DCP Revision	Var previous	
Infrastructure Item:	Completed	Remaining	Total	Revision	% change
Totals:	\$0	\$67,965,640	\$67,965,640	\$67,965,640	
Whitby High School DSS (Reilly Rd)	\$0	\$4,328,000	\$4,328,000	\$4,328,000	
Taylor Rd/Scott Rd Primary School NOS	\$0	\$4,328,000	\$4,328,000	\$4,328,000	
Keirnan Park DSS - 1b: Ovals	\$0	\$3,007,693	\$3,007,693	\$3,007,693	
Bishop Road East	\$0	\$11,415,959	\$11,415,959	\$11,415,959	
Taylor Road	\$0	\$11,692,334	\$11,692,334	\$11,692,334	
Town Centre Distributor Road	\$0	\$17,485,755	\$17,485,755	\$17,485,755	
North South Road	\$0	\$6,822,168	\$6,822,168	\$6,822,168	
Skyline Boulevard	\$0	\$2,734,156	\$2,734,156	\$2,734,156	
Tinspar Avenue	\$0	\$6,151,575	\$6,151,575	\$6,151,575	

Appendix H: Schedule of Costs – Administration

SCHEDULE OF COSTS Administration Costs

 ADMINISTRATION COSTS Budget FY 2023
 DCA3_
 2460,0001
 1007,0001
 2406

 Report Revision
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 Fiscal Year
 2023
 ...
 ...
 ...

	Budget FY	Years	Remaining	Spend to Date	Total Forecast
Mundijong-Whitby Urban Traditional Infrastructure DCP	2023	Remaining	Spend	(See Table 4)	Spend
Legal Expenses	\$4,000.00	14.85	\$59,400.00		
Advertising, Promotion & Consultancy	\$3,000.00	14.85	\$44,550.00		
DWMS Review	\$0.00	14.85	\$0.00		
Wages Totals (See Table 1)	\$40,325.60	14.85	\$598,835.19		
Sub Total	\$47,325.60	14.85	\$702,785.19	\$697,686.87	\$1,400,472.06
Change from previous year (see Tables 2 and 3)	\$1.513	-\$0	\$15,599	\$697,687	\$713.286

Table 1 - Budget allocations current FY		↓					
Budget FY 2023	DCA1_	DCA2_	DCA3_	DCA4_	Totals		
Legal Expenses	\$4,000	\$4,000	\$4,000	\$4,000	\$16,000		
Advertising, Promotion & Consultancy	\$3,000	\$3,000	\$3,000	\$3,000	\$12,000		
DWMS Review	\$0	\$0	\$0	\$0	\$0		
Wages Totals (see below allocations)	\$80,651	\$13,441	\$40,326	\$134,418	\$268,836		
Sub Totals	\$87,651	\$20,441	\$47,326	\$141,418	\$296,836		
Change from previous year	-\$48,723	-\$25,370	\$1,513	\$80,972	\$8,391		
Salary allocations	30% of FTE	5% of FTE	15% of FTE	50 % of FTE	Total FTE		
Technical Specialist Infrastructure Contributions (DCP Coordinator)	0.30	0.050	0.150	0.500	1.000		
Director Development Services	0.03	0.005	0.015	0.050	0.100		
Coordinator Strategic Planning	0.02	0.003	0.008	0.025	0.050		
Manager Strategic Planning	0.03	0.005	0.015	0.050	0.100		
Manager Engineering Services	0.01	0.001	0.003	0.010	0.020		
Engineering Development Lead	0.01	0.002	0.005	0.015	0.030		
Engineering Design Lead	0.01	0.001	0.003	0.010	0.020		
Infrastructure Projects Lead	0.01	0.001	0.003	0.010	0.020		
Manager Major Projects	0.01	0.001	0.003	0.010	0.020		
Senior Project Engineer	0.01	0.001	0.003	0.010	0.020		
Manager Finance	0.03	0.005	0.015	0.050	0.100		
Management Accountant	0.03	0.005	0.015	0.050	0.100		
Financial Accountant	0.06	0.010	0.030	0.100	0.200		

Table 2 - Administration Costs Previous FY ADMINISTRATION COSTS Report Revision Fiscal Year	DCA3_ 0 2022	23/05/2023 DCP Stort	23/05/2023 Date this Revision	23/05/2038 DCF End		
				Spent to Date (See	Total Forecast	
Mundijong-Whitby Urban Traditional Infrastructure DCP	Budget FY 2022	Years Remaining	Remaining Spend	Table 3)	Spend	
Legal Expenses	\$4,000.00	15.00	\$60,000.00			
Advertising, Promotion & Consultancy	\$3,000.00	15.00	\$45,000.00		ł	
DWMS Review	\$0.00	15.00	\$0.00		ł	
Wages Totals (See Table 1)	\$38,812.41	15.00	\$582,186.16		ł	
Sub Total	\$45,812.41	15.00	\$687,186.16	\$0.00	\$687,186.16	

Table 3 - Budget allocations previous FY		.								
Budget FY 2022-23	DCA1	DCA2	DCA3	DCA4	Totals					
Legal Expenses	\$4,000	\$4,000	\$4,000	\$4,000	\$16,000					
Advertising, Promotion & Consultancy	\$3,000	\$3,000	\$3,000	\$0	\$9,000					
DWMS Review	\$0	\$0	\$0	\$0	\$0					
Wages Totals (see below allocations)	\$129,375	\$38,812	\$38,812	\$56,446	\$263,445					
Sub Totals	\$136,375	\$45,812	\$45,812	\$60,446	\$288,445					
Salary allocations	Total FTE	50% of FTE	15% of FTE	15% of FTE	20 % of FTE					
Technical Specialist Infrastructure Contributions (DCP Coordinator)	1.00	0.50	0.150	0.150	0.200					
Director Development Services	0.10	0.05	0.015	0.015	0.020					
Coordinator Strategic Planning	0.05	0.03	0.008	0.008	0.010					
Manager Strategic Planning	0.10	0.05	0.015	0.015	0.020					
Manager Engineering Services	0.02	0.01	0.003	0.003	0.004					
Engineering Development Lead	0.03	0.02	0.005	0.005	0.006					
Engineering Design Lead	0.02	0.01	0.003	0.003	0.004					
Manager Project Delivery	0.02	0.01	0.003	0.003	0.004					
Infrastructure Projects Lead	0.02	0.01	0.003	0.003	0.004					
Senior Project Engineer	0.02	0.01	0.003	0.003	0.004					
Manager Finance	0.10	0.05	0.015	0.015	0.020					
Management Accountant	0.10	0.05	0.015	0.015	0.020					
Financial Accountant	0.20	0.10	0.030	0.030	0.040					

Table 4	
DCA	DCA3_
Developer	(All)
Development Name	Administration
Report Revision	(All)

ow Labels	Administration spend to date
2022	-\$651,874.87
Setup Costs	-\$652,295.42
Up to end FY21/22	\$420.55
2023	-\$45,812.00
Set up costs - Admin costs (budget) 2022/23 - TBC	-\$45,812.00
Grand Total	-\$697,686.87

Appendix I: Schedule of Costs – Water Monitoring

Shire of Serpentine Jarrahdale DCP DCA 3 - Mundijong-Whitby Urban Traditional Infrastructure

		DCP1	
Summary of Costs:	Costed by	Date	Cost
Water Monitoring	Urbaqua	Jun-22	\$1,031,650
TOTAL (excl. GST)			\$1,031,650

Our Ref: E23/7712

WATER MONITORING COSTS

Mundijong Whitby Urban Development Contribution Plan

Description	Hours Qty	People Qty		Sample No. Qty	Sample runs/yr Qty	Cost Per Sample \$		Rate \$	Cost	Contingency 25%	Annual Cost (GST Excl)	Years	Total Cost (GST Excl)
Sampling Program Management													
Preparation of the RFQ/Tender, Tender Brief, Scope and Specification	120	1	\$200						\$24,000	\$6,000	\$30,000	1	\$30,000
Preparation of Sample and Analysis Plan (SAP)	20	1	\$100						\$2,000	\$500	\$2,500	1	\$2,500
Program management (incl updates to SAP as required)	50	1	\$200						\$10,000	\$2,500	\$12,500	10	\$125,000
Data Management (site and program registration, data entry,	40	1	\$100						\$4,000	\$1,000	\$5,000	10	\$50,000
validation)		'							. ,				
Preparation / assistance with report (Annual Report)	50	2	\$100				<u> </u>		\$10,000	\$2,500	\$12,500	10	\$125,000
Total - Sampling Program Management									\$50,000	\$12,500	\$62,500		\$332,500
Water Analysis (20 GW & 10 SW sites)													
Nitrogens (TN, TKN, NH4, NOx-N (NO3+NO2)) + TP + FRP				32	6	20	30		\$3,840	\$960	\$4,800	10	\$48,000
Dissolved Organic Nitrogen, DON				32	6	50	30		\$9,600		\$12,000	10	\$120,000
Total Dissolved Solids, TDS				32	6	25	30		\$4,800	\$1,200	\$6,000	10	\$60,000
Metals Set-up (Filtered)				32	1	12	30		\$384	·	\$480	10	\$4,800
Heavy Metals (Al, As, Cd, Cr, Cu, Fe, Pb, Ni, Zn & Hg)				32	1	70	30		\$2,240		\$2,800	10	\$28,000
Total Recoverable Hydrocarbons (TRH)				32	1	40	30		\$1,280	\$320	\$1,600	10	\$16,000
Polycyclic Aromatic Hydrocarbons and BTEX				32	1	90	30		\$2,880	\$720	\$3,600	10	\$36,000
Total - Water Analysis									\$25,024	\$6,256	\$31,280		\$312,800
Sediment Analysis (10 sites)						-							
Total Recoverable Hydrocarbons (TRH) & BTEX				12	1	40	10		\$480	\$120	\$600	10	\$6,000
Polycyclic Aromatic Hydrocarbons (PAH)				12	1	90	10		\$1,080	•	\$1,350	10	\$13,500
Metals Set-up				12	1	14	10		\$168	\$42	\$210	10	\$2,100
Heavy Metals (Al, As, Cd, Cr, Cu, Fe, Pb, Ni, Zn & Hg)				12	1	70	10		\$840	\$210	\$1,050	10	\$10,500
Moisture (no charge with metals)				12	1	0	10		\$0	\$0	\$0	10	\$0
Total - Sediment Analysis									\$2,568	\$642	\$3,210		\$32,100
Analysis - Other	<u> </u>		ı	<u> </u>	1	1	T	#	# 00.000	05.000	007.000		*
Troll 9500 Profiler XP (in-situ analysis)					0			\$20,000	\$20,000		\$25,000	1	\$25,000
Consumables (incl. nitrile Gloves)					6			\$100 \$200	\$600	\$150	\$750	10	\$7,500
Equipment hire (pumps etc)					6			\$300 \$40	\$1,800		\$2,250 \$200	10	\$22,500
Courier fees Total - Analysis - Other				L	6			\$40	\$240 \$22,640		\$300 \$28,300	10	\$3,000 \$58,00 0
Total - Allalysis - Other									\$ 22,640	\$5,000	\$20,300		\$30,000
Superficial Groundwater Monitoring (20 sites)													
Installation of monitoring wells for superficial aquifer monitoring							000	04.000	# 00.000	000.000	0400.000		#400.00
(average 3m depth, includes survey & development)							20	\$4,000	\$80,000	\$20,000	\$100,000	1	\$100,000
Monitor local superficial aquifer groundwater levels (Monthly) -	0.25	1	200		12		20		¢42.000	Ф2 0 00	£45,000	1	¢15 00/
Labour incl travel between sites	0.25	<u> </u>	200		12		20		\$12,000	\$3,000	\$15,000	1	\$15,000
Monitor local superficial aquifer groundwater quality (Quarterly) -	0.25	1	200		4		20		\$4,000	\$1,000	\$5,000	10	\$50,000
Labour incl travel between sites	0.20	'	200		, , , , , , , , , , , , , , , , , , ,				ψ+,000	Ψ1,000	Ψ3,000	10	ψυυ,υυι
Monitor local superficial aquifer groundwater levels (Quarterly) - Labour incl travel between sites	0.25	1	200		4		20		\$4,000	\$1,000	\$5,000	9	\$45,000
Total - Superficial Groundwater Monitoring									\$100,000	\$25,000	\$125,000		\$210,000
Surface Water Monitoring													
Purchase & installation of surface water level loggers - 7 sites							7	\$5,000	\$35,000	\$8,750	\$43,750	1	\$43,750
Monitor flows in Multiple Use Corridors - labour - 7 sites	0.25	1	200		4		7	Ψ0,000	\$1,400		\$1,750	10	\$17,500
Monitor quality in Multiple Use Corridors - labour - 10 sites	0.25	1	200		4		10		\$2,000	·	\$2,500	10	\$25,000
Total - Surface Water Level Monitoring		•							\$38,400				\$86,250
									+00,100	40,000	Ψ10,000		700,200

Appendix J: Cost Review Reconciliation Adjustment

Cost Review Reconciliation

Cost Review Reconciliation

DCA: DCA3_ Report Revision: 1

Lots Cleared	-
Gross Contributions	\$0
Land for Roads/DOS settled	\$0
Land for POS settled	\$0
Works settled	\$0
Administration Costs incurred	\$0
Total Costs	\$0
Net Contribution Surplus/Deficit for Review Period	\$0

This data reflects up to the end of the previous revision, does not include data from current revision or lots carried over (cleared under a pending Amendment) - see Appendix K for more details on lots carried over

The DCP is intended to be "break-even" at its ultimate closure, i.e. the net contribution at the end of the DCP life should be zero (monies collected equal monies expended). In order to support this end target of zero, the Surplus or Defecit present at the end of each revision, is used to adjust the contribution values in the next revision.

For example, a Surplus at the end of a revision would result in a "credit" (or cost reduction) in the next DCP Report revision - thus reducing the contribution value. Likewise a defecit would result in a cost increase (cost addition) to the next DCP Report, for the equivalent value - thus increasing the contribution value.

This can be seen in the Cost Apportionment Schedule, referenced as "Reconciliation".

The Net Contribution for this revision represents a SURPLUS in the DCP

This means that the Contributions collected for the DCP so far, have exceeded the monies spent (at the closure of the last DCP Revision).

This surplus value is included in the Cost Apportionment Schedule as a CREDIT to the costs of the DCP (i.e. a cost reduction) in the "Reconciliation" line, in order to bring the balance back towards zero.

Appendix K: Lots Completed and Remaining

Lots Completed and Remaining

DCA: DCA3_ Report Revision: 1

	ESTIMATED TOTAL LOTS	COMPLETED LOTS	ESTIMATED REMAINING LOTS	Lots Cleared under Amendment (to be carried over into the this next revision)
Totals:	8,459	-	8,459	429
Whitby Estate - Precinct A	2,512	-	2,512	425
Keirnan Street - Precinct B	-	-	-	-
Watkins Road North - Precinct C	-	-	-	-
Watkins Road South - Precinct D	-	-	-	-
Taylor Road / Adams Street - Precinct E1	1,261	-	1,261	-
L50 Cockram St & L119 Sparkman Rd - Precinct E2	574	-	574	-
L9503 Mundijong Road - Precinct E3	-	-	-	-
Mundijong Town Centre - Precinct F	-	-	-	4
Mundijong North - Precinct G1	2,945	-	2,945	-
Keirnan Street - Precinct G2	230	-	230	-
Lang Road - Precinct G3	-	-	-	-
Area A Adjustment	937	-	937	-



Appendix L: Land Valuation



Executive Summary

Property Address: Mundijong-Whitby Traditional Infrastructure DCP – Development Contribution Area 3 (DCA3).

General Description: The subject of our valuation comprises notional englobo landholdings zoned as follows:

1) "Residential R25"

2) "Mixed Use / R60"

Both scenarios assume the land comprises a 5.0ha parcel that requires servicing but is within close proximity to services so there are no major servicing constraints and no major geotechnical/environmental issues.

Purpose of Valuation: Annual Scheme Contribution purposes.

Valuation: "Residential R25" Land Rate - \$30.00/m²

"Mixed Use / R60 Land Rate - \$30.00/m²

The above values assume the land comprises a 5ha parcel that requires servicing but is within close proximity to services so there are no major servicing constraints and no major geotechnical/environmental issues.

The above values are stated inclusive of GST and have considered a discount of 2.5% including

GST, being an allowance for selling costs (sales commission, marketing and legal costs).

Our valuation has assumed that there is no significant change in market conditions between

the date of inspection and the date of valuation.

Date of Inspection: 25 November 2022.

Date of Valuation: 1 February 2023.

Senior Valuer: <u>David Molony</u> AAPI, B.Com (Property & Finance)

Certified Practising Valuer Licensed Valuer No. 44387

Western Australia

This Executive Summary is a brief synopsis of the property and our assessment of market value.

It is designed to provide a brief overview and must not be read in isolation, separate from our formal valuation report.

Definition of "Market Value":

The International Valuation Standards Council (and as adopted by the Australian Property Institute) defines Market Value in the International Valuation Standards 2022 as:

"The estimated amount for which an asset or liability should exchange on the valuation date between a willing buyer and a willing seller in an arm's length transaction, after proper marketing and where the parties had each acted knowledgeably, prudently and without compulsion."

Assumptions, Conditions and Limitations:

The market is being impacted by the uncertainty caused by the COVID-19 pandemic. As at the date of valuation we consider that there is market uncertainty resulting in significant valuation uncertainty.

This valuation is therefore reported on the basis of 'significant valuation uncertainty'. As a result, less certainty exists than normal and a higher degree of caution should be attached to our valuation than normally would be the case. Given the unknown future impact that COVID-19 might have on markets, we recommend that the user(s) of this report review this valuation periodically.

This valuation is current at the date of valuation only. The value assessed herein may change significantly and unexpectedly over a relatively short period of time (including as a result of factors that the valuer could not reasonably have been aware of as at the date of valuation). We do not accept responsibility or liability for any losses arising from such subsequent changes in value.



- The planning and cadastral details obtained from the Department of Planning, Lands & Heritage, Main Roads Western Australia, Landgate and Local Authority websites are current and correct.
- Adjoining land owners or community groups do not impede or restrain development as foreseen.
- We are not aware of any Notices currently issued against the property and we have made no enquiries in this regard.
- Our valuation assumes there is no asbestos contamination.

We must point out however, that we are not experts in the detection or quantification of asbestos problems and accordingly, have not carried out a detailed investigation. Therefore, this valuation is made on the assumption that there are no actual or potential asbestos contamination issues affecting the subject property.

Should a subsequent investigation undertaken by a suitably qualified expert show that the site is contaminated, we reserve the right to amend our valuation accordingly.

The value and utility of land can be adversely affected by the presence of Aboriginal sacred sites and/or sites of Aboriginal heritage significance. We have made no investigations in this regard, as Aboriginal requirements can only be determined by the appointment of an appropriate expert.

Under these circumstances, we cannot warrant that there are no such sites on the land and if it is subsequently determined that the realty is so affected, we reserve the right to review this valuation.

- The land is assumed to comprise topsoils which are relatively free draining, however as no geotechnical investigations have been either undertaken or commissioned, we are unable to report on the underlying nature of the site.
- This market valuation assumes there is no environmental contamination of the property.
- This market valuation assumes there is no encroachment of adjoining buildings onto the subject property.
- This market valuation assumes an unencumbered fee simple title to the property.
- If there are any encumbrances, encroachments, restrictions, leases or covenants which are not noted in this report, they may affect the assessment of market value. If any such matters are known or discovered, we should be advised and asked as to whether they affect our assessment of market value.
- We have assumed that all information supplied in conducting this market valuation consists of a full and accurate disclosure of all information that is relevant.
- It is assumed that no significant event occurs between the date of inspection and the date of valuation that would impact on the market value of the subject property.
- We have not obtained a Property Interest Report in providing our advice. A property-specific report will provide detailed information of property interests not listed on the Certificate of Title that may affect the use and enjoyment of the land.

A report can be obtained from Landgate for a charge of \$54.95 (incl. GST). If a subsequent Property Interest Report reveals any aspects of the property that may impact on its value, we reserve the right to review our market valuation.

If there is any variance/contradiction in any of the above assumptions, then we reserve the right to review this market valuation accordingly.



16.0 VALUATION CONCLUSIONS

In considering suitable lands rate for the subject hypothetical parcels, we are of the opinion the following factors require due regard in this instance.

- The properties comprise notional parent parcels of 5.00ha.
- It is assumed the land requires servicing but is within close proximity to services so there are no major servicing constraints.
- It is assumed there are no major geotechnical/environmental issues.
- > The DCP Area is within its infant stages with limited urban development in the local area.
- > The first scenario assumes a relatively low notional density coding of "Residential R25".
- The second scenario assumes a broader scope for development as "Mixed Use / R60".
- Whilst finished lot values have generally appreciated in recent years, civil development costs have escalated rapidly which is having an associated negative impact on project feasibility.
- The "Mixed Use / R60" product is untested in the subject location and in our opinion offers no significant premium above and beyond traditional residential densities. We anticipate this could change as the area develops and the catchment matures.

Value per m² for Standard Residential/Non-Standard Residential:

Based on our analysis we have adopted a rate of \$30.00/m² including GST. This takes into consideration the 2.5% discount applicable for selling costs (sales commission, marketing and legal costs).

The above rate is current as at 1 February 2023.

Our valuation has assumed that there is no significant change in market conditions between the date of inspection and the date of valuation

Value per m² for Non-Residential:

Based on our analysis we have adopted a rate of \$30.00/m² including GST. This takes into consideration the 2.5% discount applicable for selling costs (sales commission, marketing and legal costs).

The above rate is current as at 1 February 2023.

Our valuation has assumed that there is no significant change in market conditions between the date of inspection and the date of valuation

Land Value Escalation Rate:

Based on current market conditions, we believe an indicative growth rate of **2.5%** is reasonable for the next 12 months.

David Molony AAPI, B. Com (Property & Finance)

Certified Practising Valuer Licensed Valuer No. 44387

Western Australia



Appendix M: Infrastructure Delivery Status Report Development Contribution Area: DCA3_ Infrastructure Delivery Status Report

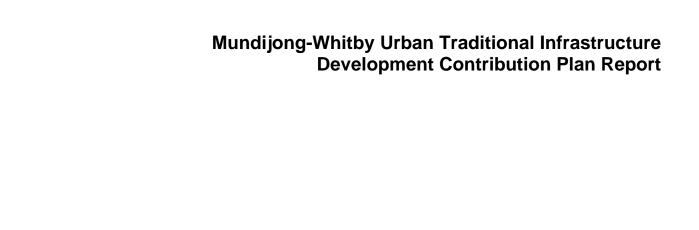
Report Revision: 1

Name of DCP: Mundijong-Whitby Urban Traditional Infrastructure DCP

This report reflects the estimated completion dates for infrastructure items. Delivery may be staged, and works may be ongoing throughout the life of the DCP.

Summary of delivery of infrastructure

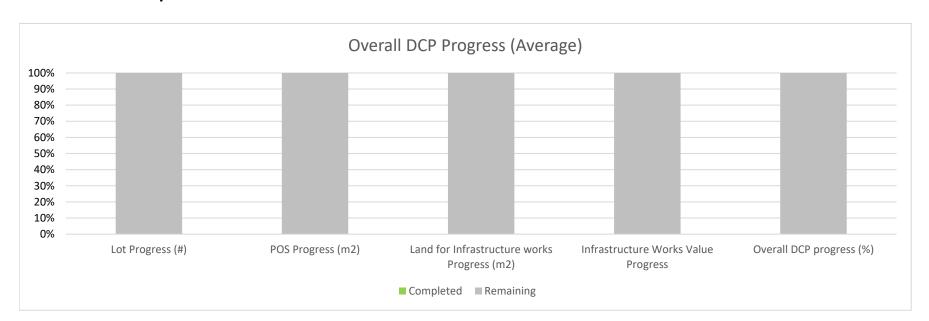
	Scheduled delivery	Progress/status (%			% detail of fund	ling			% detail of fund	ing	
Item of infrastructure	priority in previous DCP Revision	complete by \$ value)	Expected delivery	Grants	Shire		DCP	Grants	Shire	DCP	Notes (Highlighted Cells)
Whitby High School DSS (Reilly Rd)		0%	2035	\$ -	\$ -	\$	4,328,000	0%	0%	100%	
Taylor Rd/Scott Rd Primary School NOS		0%	2033	\$ -	\$ -	\$	4,328,000	0%	0%	100%	
Keirnan Park DSS - 1b: Ovals		0%	2034	\$ 1,288,290	\$ -	\$	3,007,693	30%	0%	70%	
Bishop Road East		0%	2028	\$ -	\$ -	\$	11,415,959	0%	0%	100%	
Taylor Road		0%	2027	\$ -	\$ -	\$	11,692,334	0%	0%	100%	
Town Centre Distributor Road		0%	2028	\$ -	\$ -	\$	17,485,755	0%	0%	100%	
North South Road		0%	2031	\$ -	\$ -	\$	6,822,168	0%	0%	100%	
Skyline Boulevard		0%	2033	\$ -	\$ -	\$	2,734,156	0%	0%	100%	
Tinspar Avenue		0%	2036	\$ -	\$ -	\$	6,151,575	0%	0%	100%	

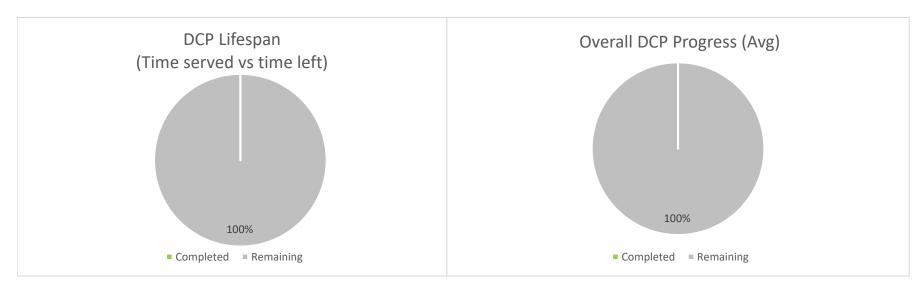


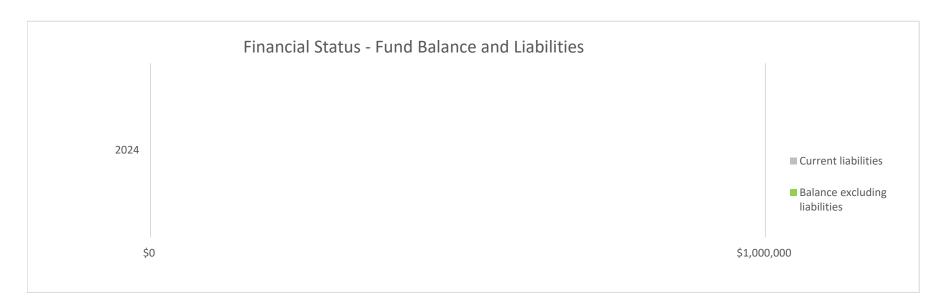
Appendix N: DCP Dashboard Summary

DCP Progress Summary Dashboard Report

DCA: DCA3_ Report Revision: 1







Appendix O: Infrastructure Costings – full breakdown

Our Ref: E22/14032

Shire of Serpentine Jarrahdale DCP DCA 3 - Mundijong-Whitby Urban Traditional Infrastructure

		DCP1	
Summary of Costs:	Costed by	Date	Cost
Bishop Road (East) – Integrator B	Rawlinsons	Jun-23	\$11,415,959
Taylor Road – Integrator B	Rawlinsons	Jun-23	\$11,692,334
New Whitby Road (aka Town Centre Distributor			
Road) – Integrator B	Rawlinsons	Jun-23	\$17,485,755
North-South Road – Integrator B	Rawlinsons	Jun-23	\$6,822,168
Skyline Boulevard – Neighbourhood Connector A	Rawlinsons	Jun-23	\$2,734,156
Tinspar Avenue – Neighbourhood Connector A	Rawlinsons	Jun-23	\$6,151,575
Whitby High School District Sporting Space	Rawlinsons	Jun-23	\$4,328,000
Taylor Road / Scott Road Primary School			
Neighbourhood Open Space	Rawlinsons	Jun-23	\$4,328,000
	Shire 2021		
	Indexed 18% 2022		
Keirnan Park DOS Ovals	Indexed 5.1% 2023	Jun-23	\$3,007,693
TOTAL (excl. GST)			\$67,965,640



Shire of Serpentine Jarrahdale DCP DCA 3 - Mundijong Whitby - Update

Code	Description	Quantity	иом	Rate	Subtotal	Sub Section Total	Section Total	Road/ DOS Total
A	ROAD - BISHOP ROAD (EAST)							
<u>A.A</u>	Road Construction							
<u>A.A.A</u>	Road Works							
	Earthworks and Site Preparation				\$0			
A.A.A.1	Site Clearance (based on light shrubs)	37,761	m2	\$4	\$132,919			
	Removal of topsoil 150mm and stockpile for later re-							
A.A.A.2	use	37,761	m2	\$2	\$60,795			
	Cut to Fill - General Earthworks	17,843	m3	\$8	\$146,848			
	Detailed excavation - mill and profile	14,161	m2	\$19 \$20	\$268,776			
A.A.A.5 A.A.A.6	Imported Fill Form swale	0 7,553	m3 m2	\$30 \$4	Excl. \$28,626			
A.A.A.O	Subgrade Preparation	7,555	1112	Φ4	\$0			
A.A.A.7	Preparation, trim and compact	29,786	m2	\$6	\$163,823			
,,,	Sub Base and Base Course	20,700	1112	ΨΟ	\$0			
A.A.A.8	100mm thick crushed rock base course	32,853	m2	\$8	\$270,052			
A.A.A.9	250mm thick compacted limestone sub base	32,853	m2	\$17	\$574,270			
	Road Paving				\$0			
A.A.A.10	50mm thick (AC14)	28,321	m2	\$31	\$884,748			
A.A.A.11	Extra over for 2% red oxide	5,665	m2	\$6	\$35,293			
	Primer seal	28,321	m2	\$4	\$114,417			
	Kerbing				\$0			
A A A 40	Marintahla Karla (MIK)	2 777		\$ 05	\$06.007			
A.A.A.13	Mountable Kerb (MK)	3,777	m	\$25	\$96,087			
A A A 14	Kerb openings	189	no	\$350	\$66,150			
A.A.A.14	Kerb openings	109	110	φ330	\$66,150			
A.A.A.15	Semi Mountable Kerb (SMK)	3,777	m	\$30	\$111,988			
,,,	Line Marking and Furniture	0,,,,,		ΨΟΟ	\$0			
	Zino manang ana rammaro				ψ.			
A.A.A.16	Line marking	7,553	m	\$6	\$47,886			
	Landscaping	,			\$0			
A.A.A.17	Soft landscaping	10,699	m2	\$0	Excl.			
A.A.A.18	Landscape mix	2,675	m3	\$90	\$240,750			
A.A.A.19	Rock pitching	630	m2	\$155	\$97,808			
A A A OO	Desire as lever	44.000	0	¢0	Final			
A.A.A.20	Drainage layer Other	11,329	m2	\$0	Excl.			
	Other							
Δ Δ Δ 21	Allow for connection to existing road		Item		\$10,000			
7 (((TOTAL Road Works		Item		ψ10,000	\$3,351,235		
						40,001,200		
A.A.B	Shared Paths							
	Earthworks and Site Preparation							
A.A.B.1	Site Clearance (based on light shrubs)	4,721	m2	\$4	\$16,618			
	Removal of topsoil 150mm and stockpile for later re-							
A.A.B.2	use	4,721	m2	\$2	\$7,601			
A.A.B.3	Cut to Fill - General Earthworks	1,417	m3	\$8	\$11,662			
A.A.B.4	Imported Fill	0	m3	\$30	Excl.			
	Subgrade Preparation							
A.A.B.5	Preparation, trim and compact	4,721	m2	\$6	\$25,966			
	Pathway							
	100 thick concrete footpath with broomed finish	4,721	m2	\$71	\$334,436			
A.A.B.7	Sand fill below concrete footpath (100mm)	4,721	m2	\$5	\$25,777	* 400 050		
	TOTAL Shared Paths		Item			\$422,058		
A.A.C	Street Lighting							
	6.5 SOR Street Light Pole incl. all conduits, light							
	cabling, excavation, and related overheads	98	no	\$3,442	\$337,289			
	6.5 DOR Street Light Pole incl. all conduits, light	30	110	ψυ, ττ	Ψοσι,203			
	cabling, excavation, and related overheads	49	no	\$5,111	\$250,438			
	TOTAL Street Lighting		Item	, =,	,,	\$587,727		
						,		
A.A.D	Road Drainage							
	450dia reinforced concrete pipe including excavation							
A.A.D.1	and backfill	1,709	m	\$233	\$398,282			
I	150dia slotted PVC subsoil drainage pipe including		I	I	I			1
	aggregate, geofabric and porous sand	1,709			\$322,317			



	100000000000000000000000000000000000000			Ī	•	=	<u>-</u>	•
A.A.D.3	Side entry pits including liner, cover, excavation, and associated works	0	no	\$2,667	CESP mesured at intersections, RAB's			
A.A.D.4	Raised gully / bubble up pits including liner, cover, grate, excavation, rock pitching, and associated works TOTAL Road Drainage	57	no Item	\$3,021	\$172,173	\$892,773		
<u>A.A.E</u> A.A.E.1	Preliminaries and Project Costs Traffic Management	5.0000	%	\$5,253,793	\$262,690			
A.A.E.2	Project Overheads and Preliminaries (Indirect Construction Costs)	15.0000	%	\$5,253,793	\$788,069			
	Project Owner's Cost (Planning and Design Costs) Risk Contingency Allowance TOTAL Preliminaries and Project Costs TOTAL Road Construction	7.5000 10.0000	% % Item	\$5,253,793 \$6,698,586	\$394,034 \$669,859	\$2,114,652	\$7,368,444	
A.B A.B.A	Hopkinson Road (T-Junction) Road Works Earthworks and Site Preparation				\$0			
A.B.A.1	Site Clearance (based on light shrubs) Removal of topsoil 150mm and stockpile for later re-	1,611	m2	\$4	\$5,671			
A.B.A.2 A.B.A.3 A.B.A.4	use Cut to Fill - General Earthworks Imported Fill Subgrade Preparation	1,611 484 0	m2 m3 m3	\$2 \$8 \$30	\$2,594 \$3,983 \$0 \$0			
A.B.A.5	Preparation, trim and compact Sub Base and Base Course	1,611	m2	\$6	\$8,861 \$0			
A.B.A.6 A.B.A.7	100mm thick crushed rock base course 250mm thick compacted limestone sub base	1,563 1,563	m2 m2	\$8 \$17	\$12,848 \$27,321			
A.B.A.8 A.B.A.9	Road Paving 50mm thick (AC14) Extra over for 2% red oxide	1,371 180	m2 m2	\$31 \$6	\$0 \$42,830 \$1,121			
A.B.A.10	Primer seal Kerbing	1,371	m2	\$4	\$5,539 \$0			
A.B.A.11	Mountable Kerb (MK)	24	m	\$25	\$611			
A.B.A.12	Semi Mountable Kerb (SMK) Line Marking and Furniture	101	m	\$30	\$2,995 \$0			
A.B.A.13	Line marking	140	m	\$6	\$888			
A.B.A.14	Street sign post	1	no	\$122	\$122			
A.B.A.15	Street name plate	2	no	\$199	\$398			
A.B.A.16	Chevron sign	0	no	\$613	\$0			
A.B.A.17	Traffic sign Landscaping	2	no	\$450	\$900 \$0			
A.B.A.18	Mulch to planter boxes (2m x 2m)	0	m2	\$16	\$0			
A.B.A.19	Trees (100I)	0	no	\$506	\$0			
A.B.A.20	Soft landscaping	0	m2	\$0	\$0			
A.B.A.21	Landscape mix	83	m3	\$90	\$7,470			
A.B.A.22	Rock pitching	15	m2	\$155	\$2,329			
A.B.A.23	Drainage layer Other	0	m2	\$0	\$0			
A.B.A.24	Allowed for connection to Hopskins Road TOTAL Road Works		item Item		\$10,000	\$136,479		
<u>A.B.B</u> A.B.B.1	Shared Paths Earthworks and Site Preparation Site Clearance (based on light shrubs) Removal of topsoil 150mm and stockpile for later re-	252	m2	\$4	\$887			
A.B.B.2	use	252	m2	\$2	\$406			
A.B.B.3 A.B.B.4 A.B.B.5	Cut to Fill - General Earthworks Detailed excavation - mill and profile Imported Fill Cubarada Proposition	76 0 0	m3 m3 m3	\$8 \$19 \$30	\$625 \$0 \$0			
A.B.B.6	Subgrade Preparation Preparation, trim and compact	252	m2	\$6	\$1,386			
A.B.B.7	Pathway 100 thick concrete footpath with broomed finish	252	m2	\$71	\$17,852			



	QUANTITY SURVEYORS & CONSTRUCTION COST CONSULTANTS							
	Sand fill below concrete footpath (100mm) Pram ramp	252 0	m2 no	\$5 \$670	\$1,376 \$0			
A.B.B.10	Pram ramp including tactile Line Marking and Furniture	2	no	\$973	\$1,945			
A.B.B.11	Line marking	0	m	\$6	\$0			
A.B.B.12	Street sign post	0	no	\$122	\$0			
A.B.B.13	Street name plate	0	no	\$199	\$0			
A.B.B.14	Chevron sign	0	no	\$613	\$0			
A.B.B.15	Traffic sign Landscaping	3	no	\$450	\$1,350			
A.B.B.16	Mulch to planter boxes (2m x 2m)	0	m2	\$16	\$0			
A.B.B.17	Trees (100l)	0	no	\$506	\$0			
A.B.B.18	Soft landscaping TOTAL Shared Paths	0	m2 Item	\$0	\$0	\$25,827		
A.B.C.1	Street Lighting 6.5 SOR Street Light Pole incl. all conduits, light cabling, excavation, and related overheads TOTAL Street Lighting	4	no Item	\$3,442	\$13,767	\$13,767		
A.B.D	Road Drainage 450dia reinforced concrete pipe including excavation							
A.B.D.1	and backfill 150dia slotted PVC subsoil drainage pipe including	120	m	\$233	\$27,966			
A.B.D.2	aggregate, geofabric and porous sand Side entry pits including liner, cover, excavation, and	0	m	\$189	\$0			
A.B.D.3	associated works Drainage layer measured with landscaping TOTAL Road Drainage	2	no Note Item	\$2,667	\$5,333	\$33,299		
<u>A.B.E</u> A.B.E.1	Preliminaries and Project Costs Traffic Management	5.0000	%	\$209,372	\$10,469			
	Project Overheads and Preliminaries (Indirect Construction Costs)	15.0000	%	\$209,372	\$31,406			
	Project Owner's Cost (Planning and Design Costs)	7.5000	%	\$209,372	\$15,703			
	Risk Contingency Allowance TOTAL Preliminaries and Project Costs TOTAL Hopkinson Road (T-Junction)	10.0000	% Item	\$266,949	\$26,695	\$84,272	\$293,644	
<u>A.C</u> A.C.A	<u>Taylor Road (T-Junction)</u> Road Works							
	Earthworks and Site Preparation Site Clearance (based on light shrubs)	1,611	m2	\$4	\$0 \$5,671			
A.C.A.2	Removal of topsoil 150mm and stockpile for later re-	1,611	m2	\$2	\$2,594			
A.C.A.3	Cut to Fill - General Earthworks Imported Fill	484 0	m3 m3	\$8 \$30	\$3,983 \$0			
	Subgrade Preparation Preparation, trim and compact Sub Base and Base Course	1,611	m2	\$6	\$0 \$8,861 \$0			
	100mm thick crushed rock base course 250mm thick compacted limestone sub base	1,563 1,563	m2 m2	\$8 \$17	\$12,848 \$27,321			
A.C.A.8	Road Paving 50mm thick (AC14) Extra over for 2% red oxide	1,371 180	m2 m2	\$31 \$6	\$0 \$42,830 \$1,121			
A.C.A.10	Primer seal Kerbing	1,371	m2	\$4	\$5,539 \$0			
	Mountable Kerb (MK)	24	m	\$25	\$611			
A.C.A.12	Semi Mountable Kerb (SMK) Line Marking and Furniture	101	m	\$30	\$2,995 \$0			
A.C.A.13	Line marking	140	m	\$6	\$888			
A.C.A.14	Street sign post	1	no	\$122	\$122			
A.C.A.15	Street name plate	2	no	\$199	\$398			
A.C.A.16	Chevron sign	0	no	\$613	\$0			
1		Ī	Ī	ī				



	QUANTITY SURVEYORS & CONSTRUCTION COST CONSULTANTS						
	Landscaping				\$0		
A.C.A.18	Mulch to planter boxes (2m x 2m)	0	m2	\$16	\$0		
A.C.A.19	Trees (100I)	0	no	\$506	\$0		
A.C.A.20	Soft landscaping	0	m2	\$0	\$0		
A.C.A.21	Landscape mix	83	m3	\$90	\$7,470		
A.C.A.22	Rock pitching	15	m2	\$155	\$2,329		
A.C.A.23	Drainage layer	0	m2	\$0	\$0		
	Other				***		
A.C.A.24	Allowed for connection to Taylor Road TOTAL Road Works		item Item		\$10,000	\$136,479	
4.C.B	Shared Paths						
A.C.B.1	Earthworks and Site Preparation Site Clearance (based on light shrubs)	252	m2	\$4	\$887		
.C.B.2	Removal of topsoil 150mm and stockpile for later reuse	252	m2	\$2	\$406		
.C.B.3 .C.B.4	Cut to Fill - General Earthworks Detailed excavation - mill and profile	76 0	m3 m3	\$8 \$19	\$625 \$0		
C.B.4	Imported Fill	0	m3	\$30	\$0 \$0		
.C.B.6	Subgrade Preparation Preparation, trim and compact	252	m2	\$6	\$1,386		
A.C.B.7	Pathway 100 thick concrete footpath with broomed finish	252	m2	\$71	\$17,852		
.C.B.8	Sand fill below concrete footpath (100mm)	252	m2	\$5	\$1,376		
.C.B.9	Pram ramp	0	no	\$670	\$0		
C.B.10	Pram ramp including tactile Line Marking and Furniture	2	no	\$973	\$1,945		
C.B.11	Line marking	0	m	\$6	\$0		
C.B.12	Street sign post	0	no	\$122	\$0		
C.B.13	Street name plate	0	no	\$199	\$0		
C.B.14	Chevron sign	0	no	\$613	\$0		
C.B.15	Traffic sign Landscaping	3	no	\$450	\$1,350		
.C.B.16	Mulch to planter boxes (2m x 2m)	0	m2	\$16	\$0		
C.B.17	Trees (100I)	0	no	\$506	\$0		
C.B.18	Soft landscaping TOTAL Shared Paths	0	m2 Item	\$0	\$0	\$25,827	
A.C.C	Street Lighting						
C.C.1	6.5 SOR Street Light Pole incl. all conduits, light cabling, excavation, and related overheads TOTAL Street Lighting	4	no Item	\$3,442	\$13,767	\$13,767	
C.D	Road Drainage						
A.C.D.1	450dia reinforced concrete pipe including excavation and backfill	120	m	\$233	\$27,966		
C.D.2	150dia slotted PVC subsoil drainage pipe including aggregate, geofabric and porous sand	0	m	\$189	\$0		
	Side entry pits including liner, cover, excavation, and						
.C.D.3	associated works Drainage layer measured with landscaping TOTAL Road Drainage	2	no Note Item	\$2,667	\$5,333	\$33,299	
C.E	Preliminaries and Project Costs						
C.E.1	Traffic Management Project Overheads and Preliminaries (Indirect	5.0000	%	\$209,372	\$10,469		
A.C.E.2	Construction Costs)	15.0000	%	\$209,372	\$31,406		
A.C.E.3 A.C.E.4	Project Owner's Cost (Planning and Design Costs) Risk Contingency Allowance	7.5000 10.0000	% %	\$209,372 \$266,949	\$15,703 \$26,695		
	TOTAL Preliminaries and Project Costs TOTAL Taylor Road (T-Junction)		Item			\$84,272	\$293,644
<u>A.D</u>	Bett Road (Roundabout)						
<u>A.D.A</u>	Road Works Earthworks and Site Preparation						
A.D.A.1	Site Clearance (based on light shrubs)	2,504	m2	\$4	\$8,814		



A.D. A.S. Monoted Filty minds of the proposation of		SON THE SON TENNES & CONSTRUCTION COST CONSULTANTS						
AD AD A Cut for Fire Carener Earnerworks 752 m² 3 85 85,995 m² 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			2.504	m2	¢2	¢4.024		
AD AD Programmer of the progra								
A D. A. D. Feygrantini, thri and compact	A.D.A.4	l '	0	m3	\$30	Excl.		
A.D. A.D. A.D. Coloren mick crosphoral missteries and brane (1.985) and 1.985 and 1.98		Preparation, trim and compact	2,504	m2	\$6	\$13,772		
AD A.B. Somm pick (AC14) AD A.B. Pimer seal AD A.D.	A.D.A.6 A.D.A.7	100mm thick crushed rock base course 250mm thick compacted limestone sub base						
AD A.10 80 thick bick payers AD A.11 30 thick compacted sand ted AD A.12 40 thick compacted sand ted 180 m2 \$2 \$2. \$295 AD A.13 77mm thick compacted limestone 180 m2 \$11 \$2.047 AD A.13 77mm thick compacted limestone 180 m2 \$11 \$2.047 AD A.14 50 thick compacted limestone 180 m2 \$11 \$2.047 AD A.15 Mountable Kerb (MK) 70 m \$25 \$1.781 AD A.15 Mountable Kerb (MK) AD A.15 Mountable Kerb (MK) 143 m \$350 \$4.240 AD A.16 Illie merking 53 m \$6 \$336 AD A.17 Barrier Kerb (RK) Line Marking and Furniture AD A.16 Illie merking 53 m \$6 \$336 AD A.19 Sirret sign post 1 no \$122 \$122 170 \$1308 AD A.20 Sirret sign post AD A.21 Charves sign 1 no \$450 \$1350 AD A.22 Traffic sign AD A.23 Shi landscaping 227 m2 \$0 \$6.1350 AD A.23 Shi landscaping AD A.23 Shi landscaping 277 m2 \$0 \$6.1350 AD A.24 Chardscape mix 1071A. Road Vorts AD A.2 Barrier disposit flowm and studejlel for later re- AD A.2 Barrier Chart and the stand studejlel for later re- AD A.2 Barrier Chart and the stand studejlel for later re- AD A.2 Barrier Chart and the stand studejlel for later re- AD A.2 Barrier Chart and standscape mix 107 m \$3 \$801 AD A.2.2 Chart and standscape mix 107 m \$3 \$801 AD A.3 Shi landscape mix 107 m \$3 \$801 AD A.4 Barrier Chart and studejlel for later re- AD B.3 Shi landscape mix 107 m \$3 \$801 AD B.4 Shi landscape mix 107 m \$3 \$801 AD B.5 Shi landscape mix 107 m \$3 \$801 AD B.6 Shi landscape mix 107 m \$3 \$801 AD B.7 Shi landscape mix 107 m \$3 \$801 AD B.8 Shi landscape mix 107 m \$3 \$801 AD B.9 Toller Shi landscape 10 m \$2 \$373 58.886 AD B.9 Toller Shi landscape 10 m \$2 \$373 58.886 AD B.9 Toller Shi landscape 10 m \$2 \$302 Toller Shi landscape 10 m \$2 \$300 Toller Shi l	A.D.A.8	50mm thick (AC14)				\$6,133		
AD A.11 30 thick compacted sand bed AD A.12 40 thick compacted sand bed AD A.12 40 thick compacted limestone 150 m² 52 32 3335 AD A.33 170mm thick compacted limestone 150 m² 511 52,047 AD A.13 250mm trick compacted limestone sub base AD A.14 250mm trick compacted limestone sub base AD A.15 Mountable Kest (MK) 70 m 525 51,781 AD A.15 Mountable Kest (SMK) 143 m 530 52,260 AD A.16 Semi Mountable Kest (SMK) 143 m 530 52,260 AD A.17 Binem Kest (RC) Inter Marking and Furniture AD A.18 lime marking 153 m 56 3336 AD A.19 Breet sign post 1 no 3112 3122 170 3193 3898 AD A.29 Street sign post 1 no 3813 3813 AD A.20 Extending sign post 1 no 3813 3813 AD A.22 Trailin sign 1 no 3843 5813 AD A.22 Trailin sign 1 no 3843 5813 AD A.23 Street many plate 2 no 3199 590 50 Excl. AD A.24 Interdecape mix 1 no 3843 580 50 Excl. AD A.25 Bast fandscaping 227 m² 50 Excl. AD A.26 Bast fandscape mix 1071A, Road Vions 1071		Brick Paving		Item		\$0		
A.D.A.12 d0 block compacted lamestone A.D.A.13 170mm thick compacted limestone B.B. m2 \$11 \$2,047 A.D.A.14 220mm thick compacted limestone sub-base A.D.A.14 220mm thick compacted limestone sub-base A.D.A.16 250mm thick compacted limestone sub-base A.D.A.17 250mm thick compact A.D.A.18 250mm thick compact A.D.	A.D.A.10	80 thick brick pavers	333	m2	\$100	\$33,333		
A.D.A.13 170mm thick compacted limestone 190 m2 311 \$2.047 A.D.A.14 250mm thick compacted limestone sub base 193 m2 317 \$2.674 A.D.A.15 Mountable Kerb (MK) 70 m \$25 \$1.781 A.D.A.16 Semi Mountable Kerb (SMK) 143 m \$30 \$4.240 A.D.A.17 Barrier Kerb (SM) 143 m \$33 \$5.269 I. Lie Marking and Furniture 54 m \$53 \$3.269 I. Lie Marking and Furniture 54 m \$53 \$3.269 I. Lie Marking and Furniture 54 m \$53 \$3.269 I. Lie Marking and Furniture 55 m \$6 \$3.386 A.D.A.15 Street sign post 1 no \$512 \$3.22 A.D.A.20 Street same plate 2 no \$519 \$3.38 A.D.A.21 Chevron sign 1 no \$613 \$3.813 A.D.A.22 Traffic sign 3 no \$460 \$1.350 I. Landscapping 2 m2 \$50 Exd. A.D.A.24 Landscapping 27 m2 \$50 Exd. I. Landscapping 57 m3 \$90 \$5.130 I. Landscapping 58 A1 I. Landscapping 59 A1 I. Landscapping 59 A1 I. Landscapping 50 A1 I. Lands	A.D.A.11	30 thick compacted sand bed	180	m2	\$2	\$295		
A.D.A.14 250mm thick compacted limestone sub-base (arbitrage facebook feetbook feetb	A.D.A.12	40 thick compacted sand bed (RAB)	153	m2	\$2	\$335		
A D.A.15 Mountable Kerb (SMK) 70 m \$25 \$1.761 A D.A.16 Semi Mountable Kerb (SMK) 143 m \$30 \$4.240 A D.A.17 Barrier Kerb (BK) Line Marking and Furniture A D.A.18 Line marking 35 m \$6 \$338 A D.A.19 Street sign post 1 n no \$122 \$122 A D.A.20 Street name plute 2 no \$199 \$399 A D.A.21 Chevron sign 1 no \$9613 \$513 A D.A.22 Traffic sign 3 no \$450 \$13.850 A D.A.22 Traffic sign 3 no \$450 \$13.850 A D.A.23 Soft landscaping 227 m2 \$0 Excl. A D.A.23 Soft landscaping 227 m2 \$0 Excl. A D.A.24 Landscape mix 757 m3 \$90 \$5,130 A D.A.25 Earthworks and Sile Preparation B Shared Paths B Sha	A.D.A.13	170mm thick compacted limestone	180	m2	\$11	\$2,047		
A.D.A.16 Semi Mountable Kerb (SMK) A.D.A.17 Barrier Kerb (BK) Line Marking and Furniture Line Marking and Furniture Line Marking and Furniture Line Marking and Furniture A.D.A.18 Line marking S.3 m \$6 \$338 \$338 \$338 \$338 \$338 \$338 \$338 \$			153	m2	\$17	\$2,674		
AD A.17 Barrier Karth (BK) Line Marking and Furniture AD A.18 Line marking 53 m \$6 \$336 AD A.19 Street sign post 1 no \$122 \$122 AD A.20 Street name plate 2 no \$199 \$3388 AD A.21 Chevron sign 1 no \$613 \$613 AD A.22 Traffic sign Landscaping AD A.22 Traffic sign Landscaping 4 D A.22 Traffic sign Landscaping 57 m 3 \$90 \$5,130 Barthoritis and Site Preparation Beth vortice and Site Preparation Beth vorti	A.D.A.15	Mountable Kerb (MK)	70	m	\$25	\$1,781		
Line Marking and Furniture AD A.18 Line marking AD A.19 Street sign post AD A.20 Street name plate 2 no \$199 \$398 \$398 \$40. AD A.20 Street name plate 2 no \$199 \$398 \$450 \$450 \$450 \$450 \$450 \$450 \$450 \$450	A.D.A.16	Semi Mountable Kerb (SMK)	143	m	\$30	\$4,240		
AD A.19 Street sign post			54	m	\$53	\$2,869		
A.D.A.20 Street name plate	A.D.A.18	Line marking	53	m	\$6	\$336		
A.D.A.21 Chevron sign	A.D.A.19	Street sign post	1	no	\$122	\$122		
A.D.A.22 Traffic sign Landscaping 3 no \$450 \$1,350 \$0 A.D.A.23 Soft landscaping 227 m2 \$0 Excl. A.D.A.24 Landscape mix TOTAL Road Works 57 m3 \$90 \$5,130 tem TOTAL Road Works 57 m3 \$90 \$5,130 tem TOTAL Road Works 3 m1 tem Site Clearance (based on light shrubs) A.D.A.1 Site Clearance (based on light shrubs) 366 m2 \$1,253 Removal of topsoil 150m and stockpile for later reuse 366 m2 \$2 \$673 A.D.B.3 Cut to Fill - General Earthworks 107 m3 \$8 \$881 temporal Fill 178 m3 \$30 \$5,340 temporal Fill 178 m2 \$35 \$30 \$5,340 temporal Fill 178 m2 \$35 \$30 \$30 \$5,340 temporal Fill 178 m2 \$35 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30	A.D.A.20	Street name plate	2	no	\$199	\$398		
Landscaping	A.D.A.21	Chevron sign	1	no	\$613	\$613		
A.D.A.24 Landscape mix TOTAL Road Works A.D.B. Shared Paths Earthworks and Site Preparation A.D.B.1. Site Clearance (based on light shrubs) A.D.B.2. Shared Paths A.D.B.3. Cut to Fill - General Earthworks A.D.B.4. In Standard Fill Subgrade Preparation A.D.B.5. Path Standard Fill Subgrade Preparation A.D.B.6. Path Standard Fill Subgrade Preparation A.D.B.6. Path Standard Fill Subgrade Preparation A.D.B.6. Path Standard Fill Subgrade Preparation (Fill Subgrade Preparation) A.D.B.6. Path Standard Fill Subgrade Preparation (Fill Subgrade Preparation) A.D.B.6. Path Standard Fill Subgrade Preparation (Fill Subgrade Preparation) A.D.B.6. Path Standard Fill Subgrade Preparation (Fill Subgrade Preparation) A.D.B.6. Path Standard Fill Subgrade Preparation (Fill Subgrade Preparation) A.D.B.7. Sand Ill Below concrete path (100mm) A.D.B.8. Path Standard Fill Subgrade Preparation (Fill Subgrade Preparation) A.D.B.8. Path Standard Fill Subgrade Preparation (Fill Subgrade Preparation) A.D.B.9. Path Standard Fill Subgrade Preparation (Fill Subgrade Preparation) A.D.B.10. Traffic sign Landscaping TOTAL Shared Paths A.D.C. Street Lightl Pole incl. all conduits, light A.D.C.1. Cabling, excavation, and related overheads TOTAL Street Lighting (Fill Subgrade Preparation) A.D.D.1. Side entry pits including lier, cover, excavation, and and backfill Side entry pits including lier, cover, excavation, and associated works TOTAL Road Drainage A.D.E. Preliminaries and Project Costs			3	no	\$450			
TOTAL Road Works Item S192,847	A.D.A.23	Soft landscaping	227	m2	\$0	Excl.		
Earthworks and Site Preparation Site Clearance (based on light shrubs) 356 m2 \$4 \$1,253 \$1,253 \$4, \$1,254 \$4, \$1,254	A.D.A.24		57		\$90	\$5,130	\$192,847	
A.D.B.1 Site Clearance (based on light shrubs) Removal of topsoil 150mm and stockpile for later re- use A.D.B.2 use A.D.B.3 Cut to Fill - General Earthworks A.D.B.4 Imported Fill Subgrade Preparation A.D.B.5 Preparation, trim and compact Parhway A.D.B.6 100 thick concrete footpath with broomed finish A.D.B.7 Preparation, trim and compact Parhway A.D.B.6 100 thick concrete footpath with broomed finish A.D.B.7 Pram ramp including lactilie A.D.B.8 Pram ramp including lactilie A.D.B.9 Tacilie paving Line Marking and Furniture A.D.B.10 Traffic sign Landscaping TOTAL Shared Paths A.D.C.1 Cabing, excavation, and related overheads TOTAL Street Lighting A.D.C.1 Cabing, excavation, and related overheads A.D.D.1 Side entry pits including liner, cover, excavation, and abackfill Side entry pits including liner, cover, excavation, and abackfill Side entry pits including liner, cover, excavation, and abackfill A.D.C.2 Preliminaries and Project Costs								
A.D.B.2 use	A.D.B.1	Site Clearance (based on light shrubs)	356	m2	\$4	\$1,253		
A.D.B.3 Cut to Fill - General Earthworks 107 m3 \$8 \$881 Imported Fill Imported Fill Subgrade Preparation 356 m2 \$6 \$1,958 Pathway A.D.B.5 Preparation, trim and compact 256 m2 \$5 \$1,944 Pram ramp A.D.B.7 Sand fill below concrete path (100mm) 356 m2 \$5 \$1,944 Pram ramp A.D.B.8 Pram ramp including tactile 6 no \$973 \$5,836 A.D.B.9 Tactile paving 10 m2 \$325 \$3,250 Item Marking and Furniture A.D.B.10 Traffic sign Landscaping TOTAL Shared Paths Item \$47,154 A.D.C.1 Cabing, excavation, and related overheads A.D.C.1 Cabing, excavation, and related overheads A.D.C.1 Score Lighting A.D.C.1 Score Lighting A.D.C.1 Score Lighting A.D.C.2 Score Lighting A.D.C.3 Scor			356	m2	\$2	\$573		
Subgrade Preparation Preparation, trim and compact Pathway	A.D.B.3	Cut to Fill - General Earthworks	107	m3	\$8	\$881		
A.D.B.5 Preparation, trim and compact Pathway A.D.B.6 Preparation, trim and compact Pathway A.D.B.6 100 thick concrete footpath with broomed finish A.D.B.7 Sand fill below concrete path (100mm) A.D.B.8 Pram ramp including tactile A.D.B.9 Tactile paving Line Marking and Furniture A.D.B.10 Traffic sign Landscaping TOTAL Shared Paths A.D.C.1 So SOR Street Light Pole incl. all conduits, light Conting, excavation, and related overheads TOTAL Street Lighting A.D.D.1 Side entry pits including liner, cover, excavation, and associated works TOTAL Road Drainage A.D.D.2 Preliminaries and Project Costs	A.D.B.4		178	m3	\$30	\$5,340		
A.D.B.6 100 thick concrete footpath with broomed finish A.D.B.7 Sand fill below concrete path (100mm) 356 m2 \$51 \$1,944		Preparation, trim and compact	356	m2	\$6	\$1,958		
A.D.B. 8 Pram ramp A.D.B. 9 Pram ramp A.D.B. 9 Pram ramp including tactile A.D.B. 9 Tractile paving Line Marking and Furniture A.D.B. 10 Traffic sign Landscaping TOTAL Shared Paths A.D.C Street Lighting 6.5 SOR Street Light Pole incl. all conduits, light A.D.C. 1 cabling, excavation, and related overheads TOTAL Street Lighting A.D.D. Road Drainage 450dia reinforced concrete pipe including excavation A.D.D. 1 side entry pits including liner, cover, excavation, and associated works TOTAL Road Drainage A.D.D. 2 Preliminaries and Project Costs			356	m2	\$71	\$25,219		
A.D.B.8 Pram ramp including tactile A.D.B.9 Tactile paving Line Marking and Furniture A.D.B.10 Traffic sign Landscaping TOTAL Shared Paths A.D.C.1 Street Lighting 6.5 SOR Street Light Pole incl. all conduits, light Corollar, excavation, and related overheads TOTAL Street Lighting A.D.D. Road Drainage 450dia reinforced concrete pipe including excavation and backfill Side entry pits including liner, cover, excavation, and A.D.D.2 associated works TOTAL Road Drainage A.D.D.2 Preliminaries and Project Costs			356		· ·	\$1,944		
Line Marking and Furniture A.D.B.10 Traffic sign			6			\$5,836		
Landscaping TOTAL Shared Paths A.D.C Street Lighting 6.5 SOR Street Light Pole incl. all conduits, light cabling, excavation, and related overheads TOTAL Street Lighting A.D.C A.D.D Road Drainage 450dia reinforced concrete pipe including excavation and backfill Side entry pits including liner, cover, excavation, and A.D.D.2 associated works TOTAL Road Drainage A.D.D.2 Preliminaries and Project Costs	A.D.B.9	Tactile paving	10	m2	\$325	\$3,250		
Landscaping TOTAL Shared Paths A.D.C Street Lighting 6.5 SOR Street Light Pole incl. all conduits, light cabling, excavation, and related overheads TOTAL Street Lighting A.D.C A.D.D Road Drainage 450dia reinforced concrete pipe including excavation and backfill Side entry pits including liner, cover, excavation, and A.D.D.2 associated works TOTAL Road Drainage A.D.D.2 Preliminaries and Project Costs	A.D.B.10	Traffic sign	2	no	\$450	\$900		
6.5 SOR Street Light Pole incl. all conduits, light cabling, excavation, and related overheads TOTAL Street Lighting A.D.D. Road Drainage 450dia reinforced concrete pipe including excavation and backfill 130 m \$233 \$30,297 Side entry pits including liner, cover, excavation, and associated works TOTAL Road Drainage 140,963 A.D.E. Preliminaries and Project Costs		. •		Item			\$47,154	
A.D.C.1 cabling, excavation, and related overheads TOTAL Street Lighting A.D.D Road Drainage 450dia reinforced concrete pipe including excavation and backfill 53de entry pits including liner, cover, excavation, and A.D.D.2 associated works TOTAL Road Drainage 410,963 A.D.E Preliminaries and Project Costs 413,767 \$13,767 \$13,767 \$13,767 \$13,767 \$13,767 \$13,767								
A.D.D.1 and backfill 130 m \$233 \$30,297 Side entry pits including liner, cover, excavation, and associated works TOTAL Road Drainage 140,963 A.D.E Preliminaries and Project Costs		cabling, excavation, and related overheads	4		\$3,442	\$13,767	\$13,767	
A.D.D.1 and backfill 130 m \$233 \$30,297 Side entry pits including liner, cover, excavation, and associated works TOTAL Road Drainage 14 no \$2,667 \$10,666 A.D.E Preliminaries and Project Costs	A.D.D							
A.D.D.2 associated works 4 no \$2,667 \$10,666 TOTAL Road Drainage Item \$40,963	A.D.D.1	and backfill	130	m	\$233	\$30,297		
A.D.E Preliminaries and Project Costs	A.D.D.2	associated works	4		\$2,667	\$10,666	\$40.963	
		, and the second		itelli			ψ τ υ,συ3	
	<u>A.D.E</u> A.D.E.1		5.0000	%	\$294,730	\$14,737		



A.D.E.2	Project Overheads and Preliminaries (Indirect Construction Costs)	15.0000	%	\$294,730	\$44,210			
A.D.E.3 A.D.E.4	Project Owner's Cost (Planning and Design Costs) Risk Contingency Allowance TOTAL Preliminaries and Project Costs TOTAL Bett Road (Roundabout)	7.5000 10.0000	% % Item	\$294,730 \$375,781	\$22,105 \$37,578	\$118,629	\$413,359	
A.E A.E.A A.E.A.1	Utilitities Power and Lighting (Western Power) Relocate 1120m of Overhead Power underground - Provisional Sum	1	PS	\$1,777,985	\$1,777,985			
	TOTAL Power and Lighting (Western Power)		Item		, , , , , , , , , , , , , , , , , , , ,	\$1,777,985		
<u>A.E.B</u> A.E.B.1	Communications (NBN / Telstra / Westnet / etc.) Relocate 1120m road length of communications related infrastructure about 20m from the current location - Provisional Sum TOTAL Communications (NBN / Telstra / Westnet / etc.)	1	PS Item	\$352,692	\$352,692	\$352,692		
A.E.C	Water and Sewer (Water Corporation) No allowance has been made for Water Corporation diversions as we do not see existing mains from our desktop study TOTAL Water and Sewer (Water Corporation)		Note Item			\$0		
A.E.D	Gas (ATCO)							
	No allowance has been made for ATCO diversions as we do not see existing valves from our desktop study TOTAL Gas (ATCO)		Note Item			\$0		
A.E.E	Preliminaries and Project Costs							
A.E.E.1	Traffic Management Project Overheads and Preliminaries (Indirect	10.0000	%	\$2,130,677	\$213,068			
A.E.E.2	Construction Costs)	15.0000	%	\$2,130,677	\$319,602			
A.E.E.3 A.E.E.4	Project Owner's Cost (Planning and Design Costs) Risk Contingency Allowance TOTAL Preliminaries and Project Costs TOTAL Utilitities	5.0000 10.0000	% % Item	\$2,130,677 \$2,769,880	\$106,534 \$276,988	\$916,191	\$3,046,868	
A.A.A.7	Estimated Imported Fill	6,750	m3				·	
A.A.A.7 A.A.A.5	Total m3 of Cut to Fill - General Earthworks	21,239	m3					
	Less Cut to Filll costed	0	m3	\$30	\$0			
	Total Adjustment for Imported Fill (less Cut to Fill)	See "In	ported Fill		end of these co	ostinas	\$0	
	TOTAL Road - Bishop Road (East)	- 000 111	Item		- India or india oc	July St.	,,	\$11,415,959



Code	Description	Quantity	UOM	Rate	Subtotal	Sub Section Total	Section Total	Road/ DOS Total
В	ROAD - TAYLOR ROAD							
<u>B.A</u>	Road Construction							
<u>B.A.A</u>	Road Works							
	Earthworks and Site Preparation				\$0			
B.A.A.1	Site Clearance (based on light shrubs)	25,275	m2	\$4	\$88,968			
	Removal of topsoil 150mm and stockpile for later re-							
B.A.A.2	use	25,275	m2	\$2	\$40,693			
	Cut to Fill - General Earthworks	12,566	m3	\$8	\$103,418			
B.A.A.4	Detailed excavation - mill and profile	10,833	m2	\$19	\$205,610			
B.A.A.5	Imported Fill	0	m3	\$30	Excl.			
B.A.A.6	Form swale	5,778	m2	\$4	\$21,899			
B.A.A.7	Subgrade Preparation Preparation, trim and compact	36,107	m2	\$6	\$0 \$198,589			
D.A.A.1	Sub Base and Base Course	30,107	1112	φυ	\$0			
B.A.A.8	100mm thick crushed rock base course	25,131	m2	\$8	\$206.577			
B.A.A.9	250mm thick compacted limestone sub base	25,131	m2	\$17	\$439,290			
2	Road Paving	20,101		Ψ	\$0			
B.A.A.10	50mm thick (AC14)	21,665	m2	\$31	\$676,815			
	, ,			•				
B.A.A.11	Extra over for 2% red oxide	4,333	m2	\$6	\$26,995			
B.A.A.12	Primer seal	21,665	m2	\$4	\$87,527			
	Kerbing				\$0			
				•	^-			
B.A.A.13	Mountable Kerb (MK)	2,889	m	\$25	\$73,496			
B.A.A.14	Kerb openings	145	no	\$350	\$50,750			
R A A 15	Semi Mountable Kerb (SMK)	2,889	m	\$30	\$85,659			
D.A.A. 13	Line Marking and Furniture	2,009	""	ψου	\$03,039 \$0			
	3				, ,			
B.A.A.16	Line marking	5,778	m	\$6	\$36,633			
	Landscaping				\$0			
B.A.A.17	Soft landscaping	8,184	m2	\$0	Excl.			
R Λ Λ 1Ω	Landscape mix	2,046	m3	\$90	\$184,140			
D.A.A. 10	Landscape mix	2,040	1113	Ψ90	\$104,140			
B.A.A.19	Rock pitching	482	m2	\$155	\$74,831			
D A A 20	Drainage layer	9 666	m2	\$0	Excl.			
Б.A.A.20	TOTAL Road Works	8,666	Item	Φ0	EXCI.	\$2,601,887		
	TOTAL ROAD WORKS		item			φ2,001,007		
B.A.B	Shared Paths							
	Earthworks and Site Preparation							
B.A.B.1	Site Clearance (based on light shrubs)	9,441	m2	\$4	\$33,232			
	Removal of topsoil 150mm and stockpile for later re-							
B.A.B.2	use	9,441	m2	\$2	\$15,200			
B.A.B.3	Cut to Fill - General Earthworks	2,833	m3	\$8	\$23,316			
B.A.B.4	Imported Fill	0	m3	\$30	Excl.			
DADE	Subgrade Preparation	0.444		ው ድ	¢E4.000			
B.A.B.5	Preparation, trim and compact Pathway	9,441	m2	\$6	\$51,926			
B.A.B.6	100 thick concrete footpath with broomed finish	9,441	m2	\$71	\$668,800			
B.A.B.7	Sand fill below concrete footpath (100mm)	9,441	m2	\$5	\$51,548			
	(,			* -	,			
					Included with			
B.A.B.8	Pram ramp TOTAL Shared Paths		no Item	\$670	intersections	\$844,022		
	TOTAL GHARAIT AND		IGIII			ψυττ,υΖΖ		-
B.A.C	Street Lighting							
_	6.5 SOR Street Light Pole incl. all conduits, light							
B.A.C.1	cabling, excavation, and related overheads	83	no	\$3,442	\$285,663			
	6.5 DOR Street Light Pole incl. all conduits, light							
B.A.C.2	cabling, excavation, and related overheads TOTAL Street Lighting	42	no Item	\$5,111	\$214,661	\$500,324		



Code	Description	Quantity	иом	Rate	Subtotal	Sub Section Total	Section Total	Road/ DOS Total
	ROAD – TOWN CENTRE DISTRIBUTOR RD (NEW							
С	WHITBY ROAD)							
C.A	Road Construction							
C.A.A	Road Works				\$ 0			
C.A.A.1	Earthworks and Site Preparation Site Clearance (based on light shrubs)	83,385	m2	\$4	\$0 \$293,515			
O.A.A.1	one orearance (based on light shrubs)	00,000	1112	ΨΨ	Ψ233,313			
C.A.A.2	Removal of topsoil 150mm and stockpile for later re-use	83,385	m2	\$2	\$134,250			
C.A.A.3	Cut to Fill - General Earthworks	29,018	m3	\$8	\$238,818			
	Imported Fill	0	m3	\$30	Excl.			
C.A.A.5	Form swale	13,342	m2	\$4	\$50,566			
C.A.A.6	Subgrade Preparation Preparation, trim and compact	83,385	m2	\$6	\$458,618			
O.A.A.0	Sub Base and Base Course	05,505	1112	φυ	\$450,010			
C.A.A.7	100mm thick crushed rock base course	58,036	m2	\$8	\$477,056			
C.A.A.8	250mm thick compacted limestone sub base	58,036	m2	\$17	\$1,014,469			
	Road Paving				\$0			
C.A.A.9	50mm thick (AC14)	50,031	m2	\$31	\$1,562,968			
0 4 4 40	Future according 20% and accide	40.007	0	фo	CO 044			
C.A.A.10	Extra over for 2% red oxide	10,007	m2	\$6	\$62,344			
C.A.A.11	Primer seal	50,031	m2	\$4	\$202,125			
	Kerbing	33,33		Ψ.	\$0			
C.A.A.12	Mountable Kerb (MK)	6,671	m	\$25	\$169,710			
C.A.A.13	Kerb openings	334	no	\$350	\$116,900			
C A A 14	Semi Mountable Kerb (SMK)	6,671	m	\$30	\$197,795			
O.A.A.14	Gerni Modritable Rerb (GMR)	0,071	'''	φ30	\$197,793			
C.A.A.15	Concrete flush edge beam		m	\$67	\$0			
	Line Marking and Furniture				\$0			
C.A.A.16	Line marking	13,342	m	\$6	\$84,588			
	Landscaping				\$0			
С Д Д 17	Soft landscaping	18,881	m2	\$0	Excl.			
O.A.A.17	Cortiandscaping	10,001	1112	ΨΟ	Exol.			
C.A.A.18	Landscape mix	4,721	m3	\$90	\$424,890			
C.A.A.19	Rock pitching	1,112	m2	\$155	\$172,638			
0 4 4 60	Danis and Laura	00.040	0	Φ0	.			
C.A.A.20	Drainage layer TOTAL Road Works	20,013	m2	\$0	Excl.	\$5,661,251		
	TOTAL ROAD WORKS		Item			φ5,661,251		
C.A.B	Shared Paths							
	Earthworks and Site Preparation							
C.A.B.1	Site Clearance (based on light shrubs)	16,677	m2	\$4	\$58,703			
C.A.B.2	Removal of topsoil 150mm and stockpile for later re-use	16,677	m2	\$2	\$26,850			
C.A.B.3 C.A.B.4	Cut to Fill - General Earthworks Imported Fill	5,004 0	m3 m3	\$8 \$30	\$41,183 Excl.			
C.A.B.4	Subgrade Preparation	U	1113	\$30	EXCI.			
C.A.B.5	Preparation, trim and compact	16,677	m2	\$6	\$91,724			
	Pathway	•						
C.A.B.6	100 thick concrete footpath with broomed finish	16,677	m2	\$71	\$1,181,399			
C.A.B.7	Sand fill below concrete footpath (100mm)	16,677	m2	\$5	\$91,056			
	TOTAL Shared Paths		Item			\$1,490,915		
C.A.C	Street Lighting							
0.71.0	6.5 SOR Street Light Pole incl. all conduits, light cabling,							
C.A.C.1	excavation, and related overheads	188	no	\$3,442	\$647,043			
	6.5 DOR Street Light Pole incl. all conduits, light cabling,							
C.A.C.2	excavation, and related overheads	94	no	\$5,111	\$480,432			
	TOTAL Street Lighting		Item			\$1,127,475		
CAD	Road Drainage							
C.A.D	Road Drainage 450dia reinforced concrete pipe including excavation							
C.A.D.1	and backfill	3,276	m	\$233	\$763,472			
		-, ·· -	l	,	I			
	150dia slotted PVC subsoil drainage pipe including							1



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CALD Controlled Control Record Formation for rew Culved CALD Controlled Control Record Formation for rew Culved CALD Controlled Control Record Formation for rew Culved CALD Controlled Controlled Control Record Formation for rew Culved CALD Controlled Control Record Formation for rew Culved CALD Controlled Control Record Formation Formation for Record Formation For			110	no	\$3.021	\$332.264			
Ramone estating cutrent in progenition for new cutvent of 1 to		2500x800mm box culvert incl. headwall, excavation,	30	m					
CA.D. 5 (Inches controlley) of mixton (Section 1997) in the Control (Control (Contro	C.A.D.4		30	""	φ4,203	\$120,103			
C.A.E.J. Project Orchards and Project Orchards and Poliminaries (Indisect Contential Costs) Project Orchards and Poliminaries (Indisect Costs) Project Orchards and Poliminaries and Design Costs) C.A.E.J. Project Orchards and Poliminaries and Design Costs) C.A.E.J. Project Orchards and Project Costs TOTAL Road Construction C.B.A.I. State Clearance (Insent of Indisect Costs) TOTAL Road Construction C.B.A.I. State Clearance (Insent of Indisect Costs) C.B.A.I. State Costs (Insent of Insent of In	C.A.D.5	(approximatley 3m wide)	1		\$4,210	\$4,210	\$1,843,902		
CALE 2 Construction Costs) CALE 3 Project Covers Cost (Permission and Design Costs) CALE 4 Project Covers Cost (Permission and Design Costs) TOTAL Road Construction TOTAL Road Construction CBLA 1 Sec Celestrate (based on light structs) CBLA 2 Road Road State Preparation CBLA 3 Sec Celestrate (based on light structs) CBLA 4 Sec Celestrate (based on light structs) CBLA 5 Sec Celestrate (based on light structs) CBLA 6 Sec Celestrate (based on light structs) CBLA 6 Sec Celestrate (based on light structs) CBLA 7 Sec Celestrate (based on light structs) CBLA 6 Sec Celestrate (based on light structs) CBLA 7 Sec Celestrate (based on light structs) CBLA 7 Sec Celestrate (based on light structs) CBLA 8 Sec Celestrate (based on light structs) CBLA 9 Sec Celestrate (based on light structs) CBLA 1 Sec Celestrate (based on light structs) CBLA 2 Sec Celestrate (based on light structs) CBLA 2 Sec Celestrate (based on light structs) CBLA 2 Sec Celestrate (based on light structs) CBLA 3 Sec Celestrate (based on light structs) CBLA 3 Sec Celestrate (based on light structs) CBLA 4 Sec Celestrate (based on light structs) CBLA 5 Sec Celestrate (based on light structs) CBLA 6 Sec Celestrate (based on light structs) CBLA 6 Sec Celestrate (based on ligh		Traffic Management	5.0000	%	\$10,123,543	\$506,177			
C.A.E.4 Risk Contingency Allowance 10.0000 % been 10.00000 % been 10.00000 % been 10.00000 % been 10.00000 % been 10.00000	C.A.E.2		15.0000	%	\$10,123,543	\$1,518,532			
C.B. A.1 Saad Works Barthworks and Site Preparation 2,564 m2 \$4 \$8,814 \$8,814 C.B.A.1 Site Clearance (based on light shrubs) 2,564 m2 \$4 \$8,814 \$8,814 C.B.A.2 Removal of topsoil 150mm and stockpile for later re-use 2,564 m3 \$8 \$8,198 C.B.A.3 Cut C Fill - Ceneral Earthworks 72 m3 \$8 \$8,198 C.B.A.3 Suppose the preparation 2,564 m2 \$8 \$13,772 C.B.A.1 Suppose the preparation of later re-use (base course) 1,983 m2 \$8 \$15,000 C.B.A.1 Suppose the preparation of later re-use (base course) 1,983 m2 \$8 \$15,000 C.B.A.1 Suppose the preparation of later re-use (base course) 1,983 m2 \$8 \$15,000 C.B.A.1 Suppose the preparation of later re-use (base course) 1,983 m2 \$8 \$15,000 C.B.A.1 Suppose the preparation of later re-use (base course) 1,983 m2 \$8 \$15,000 C.B.A.1 <td></td> <td>Risk Contingency Allowance TOTAL Preliminaries and Project Costs</td> <td></td> <td>%</td> <td></td> <td></td> <td>\$4,074,726</td> <td>\$14,198,270</td> <td></td>		Risk Contingency Allowance TOTAL Preliminaries and Project Costs		%			\$4,074,726	\$14,198,270	
C.B.A.1 Size Clearance (Desert on Eight shribbs)		Road Works							
C.B.A.1 (and the Fill - General Earthworks	C.B.A.1		2,504	m2	\$4	\$8,814			
C.B.A.1 Imported Fill		·							
Peparation, rim and compact 2,594		Imported Fill							
250mm thick compacted limestone sub base 1,983 m2 \$17 \$34,663		Preparation, trim and compact Sub Base and Base Course							
C.B.A.B. Somm thick (ACI-14) C.B.A.9 Primer seal Brick Paving C.B.A.10 80 thick brick pavers C.B.A.11 30 thick compacted sand bed C.B.A.12 40 thick compacted sand bed C.B.A.13 170mm thick compacted simestone C.B.A.14 250mm thick compacted limestone C.B.A.15 Nountable Kerb (MK) C.B.A.16 Semi Mountable Kerb (SMK) C.B.A.17 Sarrier Kerb (BK) C.B.A.18 Line marking C.B.A.18 Street sign post C.B.A.19 Street sign post C.B.A.20 Street name plate C.B.A.21 Chevron sign C.B.A.22 Chevron sign C.B.A.22 Chevron sign C.B.A.23 Soft landscaping C.B.A.24 Chevron sign C.B.A.25 Soft landscaping C.B.A.26 Semi Mountable Kerb (SMF) C.B.A.27 Traffic sign Landscaping C.B.A.29 Soft landscaping C.B.A.29 Soft landscaping C.B.A.20 Shape mix TOTAL Road Works C.B.B.3 Shared Paths Earthworks and Site Preparation C.B.B.4 Shaped Paths Earthworks and Site Preparation C.B.B.4 Shaped Paths Earthworks and Site Preparation C.B.B.5 Preparation, triv and compact C.B.B.6 Preparation, triv and compact C.B.B.7 Removal of topsoil 150mm and stockpile for latter re-use C.B.B.8 Shaped Paths Earthworks and Site Preparation C.B.B.8 Removal of topsoil 150mm and stockpile for latter re-use C.B.B.8 Shaped Paths Earthworks and Site Preparation C.B.B.8 Removal of topsoil 150mm and stockpile for latter re-use C.B.B.8 Shaped Paths Earthworks and Site Preparation C.B.B.8 Removal of topsoil 150mm and stockpile for latter re-use C.B.B.8 Shaped Paths Earthworks and Site Preparation C.B.B.8 Removal of topsoil 150mm and stockpile for latter re-use Cut to Fill - General Earthworks C.B.B.8 Removal of topsoil 150mm and stockpile for latter re-use Cut to Fill - General Earthworks C.B.B.8 Shaped Preparation C.B.B.8 Fereal Paths Earthworks and Site Preparation C.B.B.8 Shaped Preparation C.B.B.8 Shaped Preparation C.B.B.		250mm thick compacted limestone sub base							
Brick Paving	C.B.A.8		1,518	m2	\$31	\$47,422			
C.B.A.11 30 thick compacted sand bed C.B.A.12 40 thick compacted sand bed (RAB) C.B.A.13 170mm thick compacted limestone C.B.A.14 170mm thick compacted limestone C.B.A.15 170mm thick compacted limestone C.B.A.16 170mm thick compacted limestone C.B.A.17 170mm thick compacted limestone sub base keiting C.B.A.18 170mm thick compacted limestone sub base keiting C.B.A.19 170mm thick compacted limestone sub base keiting C.B.A.20 170mm thick compacted limestone C.B.A.21 170mm thick compacted limestone C.B.A.22 170mm Marking C.B.A.23 170mm Marking and Furniture C.B.A.24 170mm thick compacted limestone C.B.A.25 170mm Marking and Furniture C.B.A.26 170mm and stockpile for later re-use cut to Fin - General Earthworks and Site Preparation C.B.B.3 170mm thick compacted limestone C.B.B.4 170mm thick compacted limestone C.B.B.5 170mm and stockpile for later re-use cut to Fin - General Earthworks C.B.B.5 170mm and stockpile for later re-use cut to Fin - General Earthworks C.B.B.5 170mm and stockpile for later re-use cut to Fin - General Earthworks C.B.B.5 170mm and stockpile for later re-use cut to Fin - General Earthworks C.B.B.5 170mm and stockpile for later re-use cut to Fin - General Earthworks C.B.B.5 170mm and stockpile for later re-use cut to Fin - General Earthworks C.B.B.5 170mm and stockpile for later re-use cut to Fin - General Earthworks C.B.B.5 170mm and compact C.B.B.5 170mm and c	C.B.A.9		1,518	_	\$4				
C.B.A.12 40 thick compacted sand bed (RAB) 153 m2 \$2 \$335 C.B.A.13 170mm thick compacted limestone 180 m2 \$11 \$2.047 C.B.A.14 250mm thick compacted limestone sub base Kerbing 153 m2 \$17 \$2.674 Kerbing 250mm thick compacted limestone sub base Kerbing 153 m2 \$17 \$2.674 C.B.A.15 Mountable Kerb (MK) 70 m \$25 \$1.781 C.B.A.16 Semi Mountable Kerb (SMK) 143 m \$30 \$4.240 C.B.A.17 Barrier Kerb (BK) 143 m \$53 \$2.869 Line Marking and Furniture 153 m \$6 \$336 C.B.A.18 Line marking 53 m \$6 \$336 C.B.A.19 Street sign post 1 no \$122 \$122 C.B.A.20 Street name plate 2 no \$199 \$398 C.B.A.21 Chevron sign 1 no \$613 \$613 C.B.A.22 Traffic sign 1 no \$450 \$1,350 \$0 C.B.A.23 Soft landscaping 227 m2 \$0 Excl. C.B.A.24 Landscape mix 70TAL Road Works 57 m3 \$90 \$5.130 Item \$170TAL Road Works \$192,847 C.B.B. Shared Paths Earthworks and Site Preparation C.B.B.1 Site Clearance (based on light shrubs) 356 m2 \$4 \$1,253 C.B.B.2 Removal of topsoil 150mm and stockpile for later re-use 156 m2 \$2 \$573 C.B.B.3 C.B.B.4 Removal of topsoil 150mm and stockpile for later re-use 170 m3 \$8 \$881 mg/orted Fill 0 m3 \$30 Excl. C.B.B.5 Perparation 170 m3 58 \$881 mg/orted Fill Subgrade Preparation 170 m3 \$30 Excl.	C.B.A.10	80 thick brick pavers	333	m2	\$100	\$33,333			
C.B.A.13 170mm thick compacted limestone 180 m2 \$11 \$2,047 C.B.A.14 250mm thick compacted limestone sub base Kerbing 153 m2 \$17 \$2,674 Kerbing C.B.A.15 Mountable Kerb (MK) 70 m \$25 \$1,781 C.B.A.16 Semi Mountable Kerb (SMK) 143 m \$30 \$4,240 C.B.A.17 Initial Marking and Furniture 54 m \$53 \$2,869 C.B.A.18 Line marking 53 m \$6 \$336 C.B.A.19 Street sign post 1 no \$122 \$122 C.B.A.20 Street name plate 2 no \$199 \$398 C.B.A.21 Chevron sign 1 no \$613 \$613 C.B.A.22 Traffic sign 3 no \$450 \$1,350 \$0 C.B.A.23 Soft landscaping 227 m2 \$0 Excl. C.B.A.24 Landscape mix TOTAL Road Works 57 m3 \$90 \$5,130 C.B.A.25 Shared Paths Earthworks and Site Preparation 586 m2 \$4 \$1,253 C.B.B. Removal of topsoil 150mm and stockpile for later re-use 356 m2 \$2 \$573 C.B.B. Removal of topsoil 150mm and stockpile for later re-use 356 m2 \$81 \$1,958	C.B.A.11	30 thick compacted sand bed	180	m2	\$2	\$295			
C.B.A.14 250mm thick compacted limestone sub base Kerbing C.B.A.15 Mountable Kerb (MK) 70 m \$25 \$1,781 C.B.A.16 Semi Mountable Kerb (MK) 143 m \$30 \$4,240 C.B.A.17 Barrier Kerb (BK) Line Marking and Furniture C.B.A.18 Line marking 53 m \$6 \$336 C.B.A.19 Street sign post 1 no \$122 \$122 C.B.A.20 Street name plate 2 no \$199 \$398 C.B.A.21 Chevron sign 1 no \$613 \$613 C.B.A.22 Traffic sign Landscaping C.B.A.23 Soft landscaping C.B.A.24 Landscape mix TOTAL Road Works C.B.A.25 Shared Paths Earthworks and Site Preparation Site Clearance (based on light shrubs) 356 m2 \$4 \$1,253 C.B.B.2 Removal of topsoil 150mm and stockpile for later re-use C.B.B.3 Imported Fill 0 m3 \$30 Excl. Subgrade Preparation C.B.B.4 Imported Fill 0 m3 \$30 Excl. Subgrade Preparation C.B.B.5 Shared Paths Imported Fill 0 m3 \$30 Excl. Subgrade Preparation C.B.B.5 \$1,958	C.B.A.12	40 thick compacted sand bed (RAB)	153	m2	\$2	\$335			
C.B.A.15 Mountable Kerb (MK) 70 m \$25 \$1,781	C.B.A.13	170mm thick compacted limestone	180	m2	\$11	\$2,047			
C.B.A.16 Semi Mountable Kerb (SMK) C.B.A.17 Barrier Kerb (BK) Line Marking and Furniture C.B.A.18 Line marking 53 m \$6 \$336 C.B.A.19 Street sign post 1 no \$122 \$122 C.B.A.20 Street name plate 2 no \$199 \$398 C.B.A.21 Chevron sign 1 no \$613 \$613 C.B.A.22 Traffic sign Landscaping C.B.A.23 Soft landscaping C.B.A.24 Landscape mix TOTAL Road Works C.B.B. Shared Paths Earthworks and Site Preparation C.B.B.1 Site Clearance (based on light shrubs) 356 m2 \$4 \$1,253 C.B.B.4 Imported Fill Subgrade Preparation C.B.B.5 Preparation (C.B.B.5) C.B.B.5 Preparation (Trim and compact 56 m2 \$6 \$1,958	C.B.A.14		153	m2	\$17	\$2,674			
C.B.A.17 Barrier Kerb (BK) Line Marking and Furniture C.B.A.18 Line marking C.B.A.19 Street sign post C.B.A.20 Street name plate C.B.A.21 Chevron sign C.B.A.22 Traffic sign Landscaping C.B.A.23 Soft landscaping C.B.A.24 Landscape mix TOTAL Road Works C.B.A.25 Stared Paths Earthworks and Site Preparation C.B.B.1 Site Clearance (based on light shrubs) C.B.B.2 Removal of topsoil 150mm and stockpile for later re-use C.B.B.4 Imported Fill Subgrade Preparation C.B.B.5 Imported Fill Subgrade Preparation C.B.B.6 Stared Perparation C.B.B.7 Imported Fill Subgrade Preparation C.B.B.8 Stared Perparation C.B.B.8 Stared Perparation C.B.B.9 Imported Fill Subgrade Preparation C.B.B.9 Stared Perparation C.B.B.9 Stared Per	C.B.A.15	Mountable Kerb (MK)	70	m	\$25	\$1,781			
Line Marking and Furniture C.B.A.18 Line marking C.B.A.19 Street sign post 1 no \$122 \$122 C.B.A.20 Street name plate 2 no \$199 \$398 C.B.A.21 Chevron sign 1 no \$613 \$613 C.B.A.22 Traffic sign Landscaping C.B.A.22 Traffic sign Landscaping 227 m2 \$0 Excl. C.B.A.23 Soft landscaping C.B.A.24 Landscape mix TOTAL Road Works TOTAL Road Works C.B.B. Shared Paths Earthworks and Site Preparation C.B.B.1 Site Clearance (based on light shrubs) 356 m2 \$4 \$1,253 C.B.B.2 Removal of topsoil 150mm and stockpile for later re-use C.B.B.3 Cut to Fill - General Earthworks 107 m3 \$8 \$881 C.B.B.4 Imported Fill Subgrade Preparation C.B.B.5 Preparation, trim and compact 356 m2 \$6 \$1,958	C.B.A.16	Semi Mountable Kerb (SMK)	143	m	\$30	\$4,240			
C.B.A.19 Street sign post 1 no \$122 \$122 C.B.A.20 Street name plate 2 no \$199 \$398 C.B.A.21 Chevron sign 1 no \$613 \$613 C.B.A.22 Traffic sign 3 no \$450 \$1,350 \$0 C.B.A.23 Soft landscaping 227 m2 \$0 Excl. C.B.A.24 Landscape mix 57 m3 \$90 \$5,130 TOTAL Road Works 1tem \$\$192,847\$ C.B.B. Shared Paths Earthworks and Site Preparation C.B.B.1 Site Clearance (based on light shrubs) 356 m2 \$4 \$1,253 C.B.B.2 C.B.B.3 Cut to Fill - General Earthworks 107 m3 \$8 \$881 \$881 \$1.00 \$1,958 C.B.B.4 Subgrade Preparation C.B.B.5 Preparation, trim and compact 356 m2 \$6 \$1,958	C.B.A.17	, ,	54	m	\$53	\$2,869			
C.B.A.20 Street name plate 2 no \$199 \$398 C.B.A.21 Chevron sign 1 no \$613 \$613 C.B.A.22 Traffic sign Landscaping 3 no \$450 \$1,350 Soft landscaping 227 m2 \$0 Excl. C.B.A.23 Soft landscape mix TOTAL Road Works 57 m3 \$90 \$5,130 TOTAL Road Works Item \$192,847 C.B.B. Shared Paths Earthworks and Site Preparation \$192,847 C.B.B.1 Site Clearance (based on light shrubs) 356 m2 \$4 \$1,253 C.B.B.2 Removal of topsoil 150mm and stockpile for later re-use C.B.B.3 356 m2 \$2 \$573 C.B.B.3 Ut to Fill - General Earthworks 107 m3 \$8 \$881 C.B.B.4 Imported Fill Subgrade Preparation 0 m3 \$30 Excl. C.B.B.5 Preparation, trim and compact 356 m2 \$6 \$1,958	C.B.A.18	Line marking	53	m	\$6	\$336			
C.B.A.21 Chevron sign	C.B.A.19	Street sign post	1	no	\$122	\$122			
C.B.A.22 Traffic sign Landscaping 3 no \$450 \$1,350 \$0 C.B.A.23 Soft landscaping 227 m2 \$0 Excl. C.B.A.24 Landscape mix TOTAL Road Works 57 m3 \$90 \$5,130 \$192,847 C.B.B Shared Paths Earthworks and Site Preparation 57 m3 \$90 \$1,130 \$192,847 C.B.B.1 Site Clearance (based on light shrubs) 356 m2 \$4 \$1,253 C.B.B.2 Removal of topsoil 150mm and stockpile for later re-use C.B.B.3 Cut to Fill - General Earthworks 107 m3 \$8 \$881 \$881 \$881 \$1,000 \$1.000	C.B.A.20	Street name plate	2	no	\$199	\$398			
Landscaping \$0 \$0 C.B.A.23 Soft landscaping 227 m2 \$0 Excl. C.B.A.24 Landscape mix TOTAL Road Works 57 m3 \$90 \$5,130 Shared Paths Earthworks and Site Preparation Earthworks and Site Preparation \$192,847 C.B.B.1 Site Clearance (based on light shrubs) 356 m2 \$4 \$1,253 C.B.B.2 Removal of topsoil 150mm and stockpile for later re-use C.B.B.3 56 m2 \$2 \$573 C.B.B.3 Cut to Fill - General Earthworks 107 m3 \$8 \$881 C.B.B.4 Imported Fill Subgrade Preparation 0 m3 \$30 Excl. Subgrade Preparation, trim and compact 356 m2 \$6 \$1,958	C.B.A.21	Chevron sign	1	no	\$613	\$613			
C.B.A.24 Landscape mix	C.B.A.22	_	3	no	\$450				
TOTAL Road Works Item \$192,847	C.B.A.23	Soft landscaping	227	m2	\$0	Excl.			
Earthworks and Site Preparation Site Clearance (based on light shrubs) 356 m2 \$4 \$1,253	C.B.A.24	·	57		\$90	\$5,130	\$192,847		
C.B.B.1 Site Clearance (based on light shrubs) 356 m2 \$4 \$1,253 C.B.B.2 Removal of topsoil 150mm and stockpile for later re-use 356 m2 \$2 \$573 C.B.B.3 Cut to Fill - General Earthworks 107 m3 \$8 \$881 C.B.B.4 Imported Fill 0 m3 \$30 Excl. Subgrade Preparation 356 m2 \$6 \$1,958	<u>C.B.B</u>								
C.B.B.3 Cut to Fill - General Earthworks 107 m3 \$8 \$881 C.B.B.4 Imported Fill Subgrade Preparation 0 m3 \$30 Excl. C.B.B.5 Preparation, trim and compact 356 m2 \$6 \$1,958	C.B.B.1	·	356	m2	\$4	\$1,253			
C.B.B.4 Imported Fill 0 m3 \$30 Excl. Subgrade Preparation Subgrade Preparation, trim and compact 356 m2 \$6 \$1,958									
Subgrade Preparation C.B.B.5 Preparation, trim and compact 356 m2 \$6 \$1,958									
C.B.B.5 Preparation, trim and compact 356 m2 \$6 \$1,958	0.0.0.4	Subgrade Preparation	J	1110	ΨΟΟ	LAUI.			
	C.B.B.5	Preparation, trim and compact	356	m2	\$6	\$1,958			



	QUANTITY SURVEYORS & CONSTRUCTION COST CONSULTANTS							
C.B.B.6	100 thick concrete footpath with broomed finish	356	m2	\$71	\$25,219			1
C.B.B.7	Sand fill below concrete path (100mm)	356	m2	\$5	\$1,944			
C.B.B.8	Pram ramp including tactile	6	no	\$973	\$5,836			
C.B.B.9	Tactile paving	10	m2	\$325	\$3,250			
	Line Marking and Furniture							
C B B 10	Traffic sign	2	no	\$450	\$900			
0.0.0.10	TOTAL Shared Paths	۷	Item	Ψ-30	Ψ300	\$41,814		
						ψ,σ		
C.B.C	Street Lighting							
	6.5 SOR Street Light Pole incl. all conduits, light cabling,							
C.B.C.1	excavation, and related overheads	4	no	\$3,442	\$13,767			
	TOTAL Street Lighting		Item			\$13,767		
C.B.D	Road Drainage							
0.0.0	450dia reinforced concrete pipe including excavation							
C.B.D.1	and backfill	130	m	\$233	\$30,297			
	Side entry pits including liner, cover, excavation, and							
C.B.D.2	associated works	4	no	\$2,667	\$10,666			
	TOTAL Road Drainage		Item			\$40,963		
C.B.E	Preliminaries and Project Costs							
C.B.E.1	Traffic Management	5.0000	%	\$289,390	\$14,470			
	Project Overheads and Preliminaries (Indirect							
C.B.E.2	Construction Costs)	15.0000	%	\$289,390	\$43,409			
0.0.5.0	Drainet Oumania Cost / Disputation and Daylor	7.5000	0.4	#000.000	604 70 1			
C.B.E.3 C.B.E.4	Project Owner's Cost (Planning and Design Costs) Risk Contingency Allowance	7.5000 10.0000	% %	\$289,390 \$368,973	\$21,704 \$36,897			
C.B.E.4	TOTAL Preliminaries and Project Costs	10.0000	Item	\$300,973	\$36,697	\$116,480		
	TOTAL Taylor Road (Roundabout)					ψ110,100	\$405,870	
<u>C.C</u>	Soldiers Road (Roundabout)							
C.C.A	Road Works							
C.C.A.1	Earthworks and Site Preparation Site Clearance (based on light shrubs)	2,728	m2	\$4	\$9,603			
O.O.A.1	Site Clearance (based on light shrubs)	2,720	1112	Ψ	φ9,003			
C.C.A.2	Removal of topsoil 150mm and stockpile for later re-use	2,728	m2	\$2	\$4,392			
	Cut to Fill - General Earthworks	819	m3	\$8	\$6,740			
C.C.A.4	Imported Fill	0	m3	\$30	Excl.			
C.C.A.5	Subgrade Preparation	2.729	m2	¢e.	\$45.004			
C.C.A.S	Preparation, trim and compact Sub Base and Base Course	2,728	m2	\$6	\$15,004			
C.C.A.6	100mm thick crushed rock base course	2,139	m2	\$8	\$17,583			
C.C.A.7	250mm thick compacted limestone sub base	2,139	m2	\$17	\$37,390			
	Road Paving							
C.C.A.8	50mm thick (AC14)	1,672	m2	\$31	\$52,233			
C.C.A.9	Primer seal Brick Paving	1,672	m2 Item	\$4	\$6,755 \$0			
	Blick Favilig		item		φ0			
C.C.A.10	80 thick brick pavers	393	m2	\$100	\$39,339			
C.C.A.11	30 thick compacted sand bed	240	m2	\$2	\$394			
C C A 13	40 thick compacted sand bed (RAB)	153	m2	\$2	\$335			
0.0.A.12	TO THICK COMPACTED SAME DEG (RAD)	100	1112	φ∠	φυυσ			
C.C.A.13	170mm thick compacted limestone	240	m2	\$11	\$2,729			
C.C.A.14	250mm thick compacted limestone sub base	153	m2	\$17	\$2,674			
	Kerbing							
C C A 15	Mountable Kerb (MK)	70	m	\$25	\$1,781			
O.O.A.15	INIOGRICADIO (IVIIN)	70	m	φΖΟ	φ1,/01			
C.C.A.16	Semi Mountable Kerb (SMK)	146	m	\$30	\$4,329			
C.C.A.17	Barrier Kerb (BK)	54	m	\$53	\$2,869			
	Line Marking and Furniture							
C C A 18	Line marking	70	m	\$6	\$444			
O.O.A.18	Line marking	70	m	φυ	φ444			
C.C.A.19	Street sign post	1	no	\$122	\$122			
	1	2	no	\$199	\$398			
C.C.A.20	Street name plate			1	Ī	Ī	Ī	1
		,		# 4=0	M4 000			l l
	Traffic sign	4	no	\$450	\$1,800 \$0			
		4	no	\$450	\$1,800 \$0			
C.C.A.21	Traffic sign	4 227	no m2	\$450 \$0				
C.C.A.21	Traffic sign Landscaping Soft landscaping	227		\$ 0	\$0			
C.C.A.21	Traffic sign Landscaping				\$0			



•	The contract of the contract of the contract of		•					
C.C.A.24	Allow for connection to Soldiers Road (both directions) TOTAL Road Works		Item Item		\$20,000	\$232,043		
C.C.B	<u>Shared Paths</u>							
C.C.B.1	Earthworks and Site Preparation Site Clearance (based on light shrubs)	364	m2	\$4	\$1,281			
C.C.B.2	Removal of topsoil 150mm and stockpile for later re-use	364	m2	\$2	\$586			
	Cut to Fill - General Earthworks	110	m3	\$2 \$8	\$905			
	Imported Fill	0	m3	\$30	Excl.			
	Subgrade Preparation			***				
C.C.B.5	Preparation, trim and compact Pathway	364	m2	\$6	\$2,002			
C.C.B.6	100 thick concrete footpath with broomed finish	364	m2	\$71	\$25,786			
	Sand fill below concrete path (100mm)	364	m2	\$5	\$1,987			
	Pram ramp including tactile	8	no	\$973	\$7,781			
C.C.B.9	Tactile paving Line Marking and Furniture	13	m2	\$325	\$4,225			
	Line Marking and Furniture							
C.C.B.10	Traffic sign	4	no	\$450	\$1,800			
	TOTAL Shared Paths		Item			\$46,354		
C.C.C	Street Lighting							
C.C.C.1	6.5 SOR Street Light Pole incl. all conduits, light cabling,	4	20	¢2 442	¢42.767			
0.0.0.1	excavation, and related overheads TOTAL Street Lighting	4	no Item	\$3,442	\$13,767	\$13,767		
	TOTAL Greek Lighting		itom			Ψ10,707		
C.C.D	Road Drainage							
	450dia reinforced concrete pipe including excavation							
C.C.D.1	and backfill	130	m	\$233	\$30,297			
0.000	Side entry pits including liner, cover, excavation, and	4		#0.007	# 40.000			
C.C.D.2	associated works TOTAL Road Drainage	4	no Item	\$2,667	\$10,666	\$40,963		
	TOTAL Road Drainage		item			\$40,903		
C.C.E	Preliminaries and Project Costs							
C.C.E.1	Traffic Management	5.0000	%	\$333,126	\$16,656			
0050	Project Overheads and Preliminaries (Indirect	45.0000	0.4	4000 400	A40.000			
C.C.E.2	Construction Costs)	15.0000	%	\$333,126	\$49,969			
C.C.E.3	Project Owner's Cost (Planning and Design Costs)	7.5000	%	\$333,126	\$24,984			
C.C.E.4	Risk Contingency Allowance	10.0000	%	\$424,736	\$42,474			
	TOTAL Preliminaries and Project Costs		Item			\$134,083		
	TOTAL Soldiers Road (Roundabout)						\$467,210	
C.D	South Western Highway (Channelised Intersection)							
C.D.A	Road Works							
	Earthworks and Site Preparation				\$0			
C.D.A.1	Site Clearance (based on light shrubs)	2,550	m2	\$4	\$8,976			
C.D.A.2	Removal of topsoil 150mm and stockpile for later re-use	2,550	m2	\$2	\$4,106			
C.D.A.3	Cut to Fill - General Earthworks	765	m3	\$8	\$6,296			
C.D.A.4	Detailed excavation - mill and profile	1,800	m2	\$19	\$34,164			
C.D.A.5	Imported Fill	0	m3	\$30	Excl.			
	Subgrade Preparation		_	•	\$0			
C.D.A.6	Preparation, trim and compact Sub Base and Base Course	2,550	m2	\$6	\$14,025 \$0			
C.D.A.7	100mm thick crushed rock base course	2,466	m2	\$8	\$20,271			
C.D.A.8	10011111 trilok ordonica 100k base codrise	2,400						
	250mm thick compacted limestone sub base	2,466	m2	\$17	\$43,106			
	250mm thick compacted limestone sub base Road Paving	2,466	m2	\$17	\$43,106 \$0			
C.D.A.9		2,466 1,980	m2 m2	\$17 \$31				
	Road Paving 50mm thick (AC14)	1,980	m2	\$31	\$0 \$61,855			
	Road Paving			·	\$0			
C.D.A.10	Road Paving 50mm thick (AC14) Extra over for 2% red oxide	1,980 90	m2 m2	\$31 \$6	\$0 \$61,855 \$561			
C.D.A.10	Road Paving 50mm thick (AC14)	1,980	m2	\$31	\$0 \$61,855			
C.D.A.10 C.D.A.11	Road Paving 50mm thick (AC14) Extra over for 2% red oxide Primer seal Kerbing	1,980 90 1,980	m2 m2	\$31 \$6 \$4	\$0 \$61,855 \$561 \$7,999 \$0			
C.D.A.10 C.D.A.11	Road Paving 50mm thick (AC14) Extra over for 2% red oxide Primer seal	1,980 90	m2 m2	\$31 \$6	\$0 \$61,855 \$561 \$7,999			
C.D.A.10 C.D.A.11 C.D.A.12	Road Paving 50mm thick (AC14) Extra over for 2% red oxide Primer seal Kerbing Mountable Kerb (MK)	1,980 90 1,980 60	m2 m2 m2 m	\$31 \$6 \$4 \$25	\$0 \$61,855 \$561 \$7,999 \$0 \$1,526			
C.D.A.10 C.D.A.11 C.D.A.12	Road Paving 50mm thick (AC14) Extra over for 2% red oxide Primer seal Kerbing Mountable Kerb (MK) Semi Mountable Kerb (SMK)	1,980 90 1,980	m2 m2 m2	\$31 \$6 \$4	\$0 \$61,855 \$561 \$7,999 \$0 \$1,526 \$2,372			
C.D.A.10 C.D.A.11 C.D.A.12	Road Paving 50mm thick (AC14) Extra over for 2% red oxide Primer seal Kerbing Mountable Kerb (MK)	1,980 90 1,980 60	m2 m2 m2 m	\$31 \$6 \$4 \$25	\$0 \$61,855 \$561 \$7,999 \$0 \$1,526			
C.D.A.10 C.D.A.11 C.D.A.12 C.D.A.13	Road Paving 50mm thick (AC14) Extra over for 2% red oxide Primer seal Kerbing Mountable Kerb (MK) Semi Mountable Kerb (SMK)	1,980 90 1,980 60	m2 m2 m2 m	\$31 \$6 \$4 \$25	\$0 \$61,855 \$561 \$7,999 \$0 \$1,526 \$2,372			
C.D.A.10 C.D.A.11 C.D.A.12 C.D.A.13	Road Paving 50mm thick (AC14) Extra over for 2% red oxide Primer seal Kerbing Mountable Kerb (MK) Semi Mountable Kerb (SMK) Line Marking and Furniture Line marking	1,980 90 1,980 60 80	m2 m2 m2 m	\$31 \$6 \$4 \$25 \$30	\$0 \$61,855 \$561 \$7,999 \$0 \$1,526 \$2,372 \$0 \$4,184			
C.D.A.10 C.D.A.11 C.D.A.12 C.D.A.13	Road Paving 50mm thick (AC14) Extra over for 2% red oxide Primer seal Kerbing Mountable Kerb (MK) Semi Mountable Kerb (SMK) Line Marking and Furniture	1,980 90 1,980 60 80	m2 m2 m2 m	\$31 \$6 \$4 \$25 \$30	\$0 \$61,855 \$561 \$7,999 \$0 \$1,526 \$2,372 \$0			
C.D.A.10 C.D.A.11 C.D.A.12 C.D.A.13 C.D.A.14 C.D.A.15	Road Paving 50mm thick (AC14) Extra over for 2% red oxide Primer seal Kerbing Mountable Kerb (MK) Semi Mountable Kerb (SMK) Line Marking and Furniture Line marking Street sign post	1,980 90 1,980 60 80 660	m2 m2 m2 m m	\$31 \$6 \$4 \$25 \$30 \$6 \$122	\$0 \$61,855 \$561 \$7,999 \$0 \$1,526 \$2,372 \$0 \$4,184 \$122			
C.D.A.10 C.D.A.11 C.D.A.12 C.D.A.13 C.D.A.14 C.D.A.15	Road Paving 50mm thick (AC14) Extra over for 2% red oxide Primer seal Kerbing Mountable Kerb (MK) Semi Mountable Kerb (SMK) Line Marking and Furniture Line marking	1,980 90 1,980 60 80	m2 m2 m2 m	\$31 \$6 \$4 \$25 \$30	\$0 \$61,855 \$561 \$7,999 \$0 \$1,526 \$2,372 \$0 \$4,184			
C.D.A.10 C.D.A.11 C.D.A.12 C.D.A.13 C.D.A.14 C.D.A.15 C.D.A.16	Road Paving 50mm thick (AC14) Extra over for 2% red oxide Primer seal Kerbing Mountable Kerb (MK) Semi Mountable Kerb (SMK) Line Marking and Furniture Line marking Street sign post	1,980 90 1,980 60 80 660	m2 m2 m2 m m	\$31 \$6 \$4 \$25 \$30 \$6 \$122	\$0 \$61,855 \$561 \$7,999 \$0 \$1,526 \$2,372 \$0 \$4,184 \$122			



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	Traffic sign Landscaping	3	no	\$450	\$1,350 \$0			
C.D.A.19	Soft landscaping	180	m2	\$0	Excl.			
C.D.A.20	Landscape mix	42	m3	\$90	\$3,780			
C.D.A.21	Rock pitching	8	m2	\$155	\$1,242			
C.D.A.22	Drainage layer Other	180	m2	\$0	Excl.			
	Allow for connection to SWH TOTAL Road Works		item Item		\$20,000	\$236,945		
	Shared Paths Earthworks and Site Preparation							
	Site Clearance (based on light shrubs)	150	m2	\$4	\$528			
C.D.B.2	Removal of topsoil 150mm and stockpile for later re-use	150	m2	\$2	\$242			
	Cut to Fill - General Earthworks	45	m3	\$8	\$370			
	Imported Fill	0	m3	\$30	Excl.			
C.D.B.5	Subgrade Preparation Preparation, trim and compact Pathway	150	m2	\$6	\$825			
C.D.B.6	100 thick concrete footpath with broomed finish	150	m2	\$71	\$10,626			
	Sand fill below concrete footpath (100mm)	150	m2	\$5	\$819			
	Pram ramp including tactile	2	no	\$973	\$1,945			
C.D.B.9	Line Marking and Furniture Traffic sign TOTAL Shared Paths	2	no Item	\$450	\$900	\$16,255		
	Street Lighting							
	6.5 SOR Street Light Pole incl. all conduits, light cabling, excavation, and related overheads	2	no	\$3,442	\$6,883			
	TOTAL Street Lighting	2	Item	ψ5,442	φ0,003	\$6,883		
	Road Drainage 450dia reinforced concrete pipe including excavation							
	and backfill Side entry pits including liner, cover, excavation, and	90	m	\$233	\$20,975			
C.D.D.2	associated works TOTAL Road Drainage	2	no Item	\$2,667	\$5,333	\$26,308		
C.D.E	Preliminaries and Project Costs							
	Traffic Management	5.0000	%	\$286,391	\$14,320			
	Project Overheads and Preliminaries (Indirect							
C.D.E.2	Construction Costs)	15.0000	%	\$286,391	\$42,959			
C.D.E.3	Project Owner's Cost (Planning and Design Costs)	7.5000	%	\$286,391	\$21,479			
	Risk Contingency Allowance	10.0000	%	\$365,148	\$36,515			
	TOTAL Preliminaries and Project Costs		Item	, ,	, ,	\$115,272		
	TOTAL South Western Highway (Channelised							
	Intersection)						\$401,663	
C.E.A	At-grade rail crossing Road Works							
	Earthworks and Site Preparation Site Clearance (based on light shrubs)	1,063	m2	\$4	\$3,742			
C.E.A.2	Removal of topsoil 150mm and stockpile for later re-use	1,063	m2	\$2	\$1,711			
C.E.A.3	Cut to Fill - General Earthworks	532	m3	\$8	\$4,378			
	Dispose of material off site	532	cum	\$10	\$5,320			
	Imported Fill Subgrade Preparation	0	m3	\$30	Excl.			
	Preparation, trim and compact	1,063	m2	\$6	\$5,847			
	Sub Base and Base Course	.,		*	+0,0 //			
C.E.A.7	100mm thick crushed rock base course 250mm thick compacted limestone sub base	740 740	m2 m2	\$8 \$17	\$6,083 \$12,935			
	Road Paving 50mm thick (AC14)	995	m2	\$17 \$31	\$31,084			
	Primer seal Kerbing	995	m2	\$4	\$4,020			
	Semi Mountable Kerb (SMK) Line Marking and Furniture	65	m	\$30	\$1,927			
C.E.A.12	Line marking	106	m	\$6	\$672			



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C.E.A.13	Line marking at crossing	995	sqm	\$10	\$9,950			
C.E.A.14	Traffic sign TOTAL Road Works	4	no Item	\$450	\$1,800	\$89,469		
C.E.B	Shared Paths							
C.E.B.1	Earthworks and Site Preparation Site Clearance (based on light shrubs)	213	m2	\$4	\$750			
	Removal of topsoil 150mm and stockpile for later re-use Cut to Fill - General Earthworks	213 107	m2 m3	\$2 \$8	\$343 \$881			
	Dispose of material off site	107	m3	\$10	\$1,070			
	Imported Fill	0	m3	\$30	Excl.			
	Subgrade Preparation							
C.E.B.6	Preparation, trim and compact	213	m2	\$6	\$1,172			
C.E.B.7	Pathway 100 thick concrete footpath with broomed finish	213	m2	\$71	\$15,089			
C.E.B.8	Sand fill below concrete path (100mm)	213	m2	\$7 i	\$1,163			
	Pram ramp including tactile	4	no	\$973	\$3,891			
0.2.5.0	Line Marking and Furniture	•	110	φονο	ψο,σο ι			
C.E.B.10	Traffic sign	4	no	\$450	\$1,800			
	TOTAL Shared Paths		Item			\$26,157		
C.E.C	Street Lighting							
<u> </u>	6.5 SOR Street Light Pole incl. all conduits, light cabling,							
	excavation, and related overheads (provisional							
C.E.C.1	allowance)	4	no	\$3,442	\$13,767			
	TOTAL Street Lighting		Item			\$13,767		
C.E.D	Road Drainage							
	450dia reinforced concrete pipe including excavation							
C.E.D.1	and backfill	115	m	\$233	\$26,801			
	Side entry pits including liner, cover, excavation, and							
C.E.D.2	associated works (provisional allowance)	4	no	\$2,667	\$10,666	COT 467		
	TOTAL Road Drainage		Item			\$37,467		
C.E.E	Level crossing at Whitby Road							
	Level crossing							
C.E.E.1	Allow for new level crossing at Orton Road	1	no	\$632,500	\$632,500			
	TOTAL Level crossing at Whitby Road		item			\$632,500		
C.E.F	Preliminaries and Project Costs							
C.E.F.1	Traffic Management	10.0000	%	\$799,360	\$79,936			
	Project Overheads and Preliminaries (Indirect							
C.E.F.2	Construction Costs)	15.0000	%	\$799,360	\$119,904			
C.E.F.3	Project Owner's Cost (Planning and Design Costs)	7.5000	%	\$799,360	\$59,952			
	Risk Contingency Allowance	10.0000	% %	\$1,059,152	\$105,915			
O.L.I	TOTAL Preliminaries and Project Costs	10.0000	Item	ψ1,000,102	ψ100,010	\$365,707		
	TOTAL At-grade rail crossing					, ,	\$1,165,067	
<u>C.F</u> C.F.A	Bett Road (Roundabout future extension) Road Works							
C.F.A	Earthworks and Site Preparation							
C.F.A.1	Site Clearance (based on light shrubs)	2,728	m2	\$4	\$9,603			
C.F.A.2	Removal of topsoil 150mm and stockpile for later re-use	2,728	m2	\$2	\$4,392			
	Cut to Fill - General Earthworks	819	m3	\$8 \$4.0	\$6,740			
	Detailed excavation - mill and profile Imported Fill (Provisional)	900 1,316	m2 m3	\$19 \$30	\$17,082 \$39,480			
0.1 .70	Subgrade Preparation	1,010	1110	ψου	ψ55,466			
C.F.A.6	Preparation, trim and compact	2,728	m2	\$6	\$15,004			
	Sub Base and Base Course							
C.F.A.7	100mm thick crushed rock base course	2,139	m2	\$8 \$4.7	\$17,583 \$37,300			
C.F.A.8	250mm thick compacted limestone sub base Road Paving	2,139	m2	\$17	\$37,390			
C.F.A.9	50mm thick (AC14)	1,672	m2	\$31	\$52,233			
		•			. ,			
C.F.A.10	Primer seal	1,672	m2	\$4	\$6,755			
	Brick Paving		Item		\$0			
C F A 11	80 thick brick pavers	393	m2	\$100	\$39,339			
J.I .A.11	oo anok briok pavors	333	1112	φιου	ψυσ,υυσ			
C.F.A.12	30 thick compacted sand bed	240	m2	\$2	\$394			
0.5.4.45	40 this land and the Land has Land has Land	450		00	# 005			
C.F.A.13	40 thick compacted sand bed (RAB)	153	m2	\$2	\$335			
C.F.A.14	170mm thick compacted limestone	240	m2	\$11	\$2,729			
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C.F.A.15	250mm thick compacted limestone sub base	153	m2	\$17	\$2,674			
C E A 16	Kerbing Mountable Kerb (MK)	70		\$25	\$1,781			
	Semi Mountable Kerb (SMK)	146	m m	\$30	\$4,329			
	Barrier Kerb (BK)	54	m	\$50 \$53	\$2,869			
0.1 .7.10	Line Marking and Furniture	34	""	ΨΟΟ	Ψ2,003			
C.F.A.19	Line marking	70	m	\$6	\$444			
C.F.A.20	Street sign post	1	no	\$122	\$122			
C.F.A.21	Street name plate	2	no	\$199	\$398			
C.F.A.22	Traffic sign Landscaping	4	no	\$450	\$1,800 \$0			
C.F.A.23	Soft landscaping	227	m2	\$0	Excl.			
C.F.A.24	Landscape mix Other	57	m3	\$90	\$5,130			
C.F.A.25	Allow for connection to Soldiers Road (both directions) TOTAL Road Works		Item Item		\$20,000	\$288,605		
C.F.B	Shared Paths Earthworks and Site Preparation							
C.F.B.1	Site Clearance (based on light shrubs)	364	m2	\$4	\$1,281			
	Removal of topsoil 150mm and stockpile for later re-use Cut to Fill - General Earthworks	364 110	m2 m3	\$2 \$8	\$586 \$905			
	Imported Fill Subgrade Preparation	182	m3	\$30	\$5,460			
C.F.B.5	Preparation, trim and compact Pathway	364	m2	\$6	\$2,002			
C.F.B.6 C.F.B.7	100 thick concrete footpath with broomed finish Sand fill below concrete path (100mm)	364 364	m2 m2	\$71 \$5	\$25,786 \$1,987			
C.F.B.8 C.F.B.9	Pram ramp including tactile Tactile paving	8 13	no m2	\$973 \$325	\$7,781 \$4,225			
	Line Marking and Furniture							
C.F.B.10	Traffic sign TOTAL Shared Paths	4	no Item	\$450	\$1,800	\$51,814		
C.F.C	Street Lighting 6.5 SOR Street Light Pole incl. all conduits, light cabling,							
C.F.C.1	excavation, and related overheads TOTAL Street Lighting	4	no Item	\$3,442	\$13,767	\$13,767		
C.F.D	Road Drainage 450dia reinforced concrete pipe including excavation							
C.F.D.1	and backfill Side entry pits including liner, cover, excavation, and	130	m	\$233	\$30,297			
C.F.D.2	associated works TOTAL Road Drainage	6	no Item	\$2,667	\$15,999	\$46,296		
<u>C.F.E</u> C.F.E.1	Preliminaries and Project Costs Traffic Management	5.0000	%	\$400,481	\$20,024			
C.F.E.2	Project Overheads and Preliminaries (Indirect Construction Costs)	15.0000	%	\$400,481	\$60,072			
	Project Owner's Cost (Planning and Design Costs)	7.5000	%	\$400,481	\$30,036			
C.F.E.4	Risk Contingency Allowance TOTAL Preliminaries and Project Costs	10.0000	% Item	\$510,614	\$51,061	\$161,194		
	TOTAL Bett Road (Roundabout future extension)						\$561,675	
<u>C.G</u> C.G.A	<u>Utilitities</u> Power and Lighting (Western Power)							
C.G.A.1	General Provisional Sum of \$100,000 as it is not clear if diversions are requred TOTAL Power and Lighting (Western Power)	1	PS Item	\$100,000	\$100,000	\$100,000		
C.G.B	Communications (NBN / Telstra / Westnet / etc.) General Provisional Sum of \$100,000 as it is not clear if							
C.G.B.1	diversions are requred	1	PS	\$100,000	\$100,000			
	TOTAL Communications (NBN / Telstra / Westnet / etc.)		Item			\$100,000		



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<u>C.G.C</u>	Water and Sewer (Water Corporation) No allowance has been made for Water Corporation diversions as we do not see existing mains from our desktop study TOTAL Water and Sewer (Water Corporation)		Note Item			\$0		
C.G.D	Gas (ATCO)							
	No allowance has been made for ATCO diversions as we do not see existing valves from our desktop study TOTAL Gas (ATCO)		Note Item			\$0		
C.G.E	Preliminaries and Project Costs							
C.G.E.1	Traffic Management	10.0000	%	\$200,000	\$20,000			
	Project Overheads and Preliminaries (Indirect				. ,			
C.G.E.2	Construction Costs)	15.0000	%	\$200,000	\$30,000			
C G F 3	Project Owner's Cost (Planning and Design Costs)	5.0000	%	\$200,000	\$10.000			
C.G.E.4	Risk Contingency Allowance	10.0000	%	\$260,000	\$26,000			
	TOTAL Preliminaries and Project Costs		Item	4_00,000	4 _0,000	\$86,000		
	TOTAL Utilitities						\$286,000	
A.A.A.7	Estimated Imported Fill	31,905	m3					
A.A.A.5	Total m3 of Cut to Fill - General Earthworks	38,188	m3					
	Less Cut to FillI costed	0	m3	\$30	\$0			
	Total Adjustment for Imported Fill (less Cut to Fill)	See "In	ported Fill		end of these co	estings.	\$0	
	TOTAL Road – New Whitby Road		Item					\$17,485,755



DAA Some hock (Act of South South Rough South Sout	Code	Description	Quantity	иом	Rate	Subtotal	Sub Section Total	Section Total	Road/ DOS Total
D.A.A.1 Bodin Volckia 5.00	D								
D.A.A. Sim Collegament (based ori light shribots) D.A.A.S. Sim Collegament (based ori light shribots) D.A.A.S. Sim Collegament (based ori light shribots) D.A.A.S. Carlo Entir Governal stockpile for later re-tuse D.A.A.S. Sample Repeatation D.A.A.S. Sample Repeatation D.A.A.S. Sample Repeatation D.A.B.S. Sample Repeatation D.A.D.S. Sa									
D.A.A.1 Sinc Cleanance Based on light shrukes)	<u>D.A.A</u>								
D.A.A.2 Removal of topsoil 150mm and stockpile for later re-use 30,970 m2 32 \$49,862			20.070		Φ.A				
D.A.A.3 Cut to Fili - General Earthworks 10,778 m3 \$8 \$88.703 D.A.A.4 Impured Fili 0 m3 \$3.0 Exct. D.A.A.5 Form swale 4,966 m2 \$4 \$18,783 S. Signade Preparation 30,970 m2 \$8 \$170,335 D.A.A.6 Signade Preparation 30,970 m2 \$8 \$170,335 D.A.A.7 Communication 30,970 m2 \$8 \$170,335 D.A.A.7 Communication 30,970 m2 \$8 \$177,182 D.A.A.7 Soft manufacturation 30,970 m2 \$8 \$177,182 D.A.A.10 Extra cover for 20 oxide 3,717 m2 \$8 \$23,157 D.A.A.11 Press eal 50 50 D.A.A.12 Mourtable Kerb (MK) 2,478 m \$25 \$83,040 D.A.A.13 Kerb openings 124 no 3350 \$43,000 D.A.A.14 Soft movembals Kerb (SMK) 2,478 m \$30 \$73,473 D.A.A.15 Line marking 4,956 m \$8 \$31,421 Landscaping 7,020 m2 \$9 Exct. D.A.A.15 Carlos (Walks) 2,478 m \$30 \$157,950 D.A.A.16 Soft iandscaping 7,020 m2 \$9 Exct. D.A.A.17 Landscaping 7,020 m2 \$9 Exct. D.A.A.18 Sock pitching 413 m2 \$155 \$64,118 D.A.A.19 Soft iandscaping 7,433 m2 D.A.A.19 Soft iandscaping 7,433 m2 D.A.A.10 Soft iandscaping 5,430,000 D.A.B.10 Soft iandscaping 7,433 m2 D.A.B.11 Soft iandscaping 7,433 m2 D.A.B.12 Soft iandscaping 7,433 m2 D.A.B.13 Soft iandscaping 7,433 m2 D.A.B.14 Soft iandscaping 7,433 m2 D.A.B.15 Soft iandscaping 7,433 m2 D.A.B.16 Soft iandscaping 7,433 m2 D.A.B.17 Soft iandscaping 7,434 m3 D.A.B.18 Soft iandscaping 7,434 m3 D.A.B.19 Soft iandscaping 7,434 m3 D.A.B.10 Soft iandscaping 7,434 m3 D.A.B.11 Soft iandscaping 7,434 m3 D.A.B.12 Soft iandscaping 7,434 m3 D.A.B.13 Soft iandscaping 7,434 m3 D.A.B.14 Soft iandscaping 7,434 m3 D.A.B.15 Soft iandscap	D.A.A.1	Site Clearance (based on light shrubs)	30,970	m2	\$4	\$109,014			
D.A.A.3 Cut to Filir - General Earthworks 10.778 m3 88 \$88.703 D.A.A.5 Form swale 4.966 m2 34 \$18.783 D.A.A.5 Form swale 4.966 m2 34 \$18.783 D.A.A.5 Form swale 4.966 m2 36 \$170.305 D.A.A.6 Form swale 4.966 m2 36 \$170.305 D.A.A.7 Committee of the state outside 21.565 m2 \$177.182 D.A.A.7 Committee of the state outside 21.565 m2 \$177.782 D.A.A.7 Committee outside of the state outside 21.565 m2 \$177.782 D.A.A.7 Committee outside 18.582 m2 \$177.781 D.A.A.10 Eart over for 2% red oxide 3.717 m2 36 \$23.157 D.A.A.11 Primer seal 18.582 m2 \$18.580, 500.002 D.A.A.12 Mourtable Korb (MK) 2.478 m \$25 \$53.040 D.A.A.13 Kerb openings 124 no 3350 \$43.000 D.A.A.14 Live marking 4.956 m \$8 \$31.421 Landscaping D.A.A.15 Live Marking and Furnituse 50 D.A.A.16 Soft landscaping 7.020 m2 30 Excl. D.A.A.17 Landscaping 7.020 m2 30 Excl. D.A.A.18 Rock plething 4.13 m2 3155 \$64.118 D.A.A.19 Dininge layer 7.433 m2 30 Excl. D.A.A.10 Dininge layer 7.433 m2 30 Excl. D.A.A.11 One Clearance (used on light shruko) 6.194 m2 \$4 \$21.803 D.A.B.2 One Clearance (used on light shruko) 6.194 m2 \$3 \$3.000 D.A.B.3 General Earthworks 6.194 m2 \$3 \$3.000 D.A.B.4 One Clearance (used on light shruko) 6.194 m2 \$3 \$3.000 D.A.B.5 One Clearance (used on light shruko) 6.194 m2 \$3 \$3.000 D.A.B.6 One Clearance (used on light shruko) 6.194 m2 \$3 \$3.000 D.A.B.7 One Clearance (used on light shruko) 6.194 m2 \$3 \$3.000 D.A.B.8 One Clearance (used on light shruko) 6.194 m2 \$3 \$3.000 D.A.B.8 One Clearance (used on light shruko) 6.194 m2 \$3 \$3.000 D.A.B.8 One Clearance (used on light shruko) 6.194 m2 \$3 \$3.000 D.A.B.8 One Clearance (used on light shruko) 6.194 m2 \$3 \$3.000 D.A.B.8 One Clearance (used on light shruko) 6.194	D.A.A.2	Removal of topsoil 150mm and stockpile for later re-use	30.970	m2	\$2	\$49.862			
D.A.5.6 Form swale Subgrade Preparation D.A.6.6 Preparation, turn and compact Soft Description, turn and compact Soft Description D.A.7.6 Information of the preparation of the preparat		·							
Subgrade Preparation Subgrade Preparation Subgrade Preparation Subgrade Preparation Sub Base and Base Course 21,555 m2 \$8 \$177,182 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	D.A.A.4	Imported Fill	0	m3	\$30	Excl.			
D.A.A.6 Semi Mountable Kerb (SMK) D.A.A.15 Line Harding and Furniture D.A.A.17 Line Harding and Furniture D.A.A.17 Line Harding and Furniture D.A.A.18 Semi Mountable Kerb (SMK) D.A.A.18 Semi Mountable Kerb (SMK) D.A.A.19 D.A.A.	D.A.A.5		4,956	m2	\$4				
D. A.D. A.D. To form flick consider dox base course D. A.D. A.D. To form flick consider dox base course D. A.D. A.D. Extra cover for 2% rad conde D. A.D. To form flick (AC14) D. A.D. D. Extra cover for 2% rad conde D. A.D. To form flick (AC14) D. A.D. D. Extra cover for 2% rad conde D. A.D. To form flick (AC14) D. A.D. D. Extra cover for 2% rad conde D. A.D. To form flick (AC14) D. A.D. D. Extra cover for 2% rad conde D. A.D. To form flick (AC14) D. A.D. To form seal (AC14) Read Property of the Control of the			00.070		40				
D.A.A.7 Comm thick compacted finestones sub base 21,555 m2 \$17 \$37,781 \$38 \$177,71,92 \$34 \$35,781 \$30 \$34,400	D.A.A.6	·	30,970	m2	\$6				
D.A.A.12 Somm thick compacted limestone sub base Road Paiving Somm thick (Act 4)	D.A.A.7		21.555	m2	\$8				
Road Paving									
D.A.A.10 Extra over for 2% red oxide 3,717 m2 \$6 \$23,157 D.A.A.11 Primer seal Kerbing 18,582 m2 \$4 \$75,071 \$0 D.A.A.12 Mountable Kerb (MK) 2,478 m \$25 \$63,040 D.A.A.13 Kerb openings 124 no \$350 \$43,400 D.A.A.14 Kerb openings 124 no \$350 \$43,400 D.A.A.15 Sami Mountable Kerb (SMK) 2,478 m \$30 \$73,473 \$0 D.A.A.15 Line marking 4,956 m \$6 \$31,421 D.A.A.15 Line marking 4,956 m \$6 \$31,421 D.A.A.16 Soft landscaping 7,020 m2 \$0 Excl. D.A.A.17 Landscaping 7,020 m2 \$155 \$564,118 D.A.A.18 Rock pitching 413 m2 \$155 \$564,118 D.A.A.19 Toriange layer 7,433 m2 \$0 Excl. D.A.B.10 Toriange layer 7,433 m2 \$0 Excl. D.A.B.11 D.A.B.2 Earthworks and Site Preparation 516 Clearance (based on light shrubs) D.A.B.2 Removal of topsoil 150mm and stockpile for later re-use 0,194 m2 \$4 \$21,803 D.A.B.3 Cut for III - General Earthworks 0 m3 \$30 Excl. D.A.B.3 Cut for III - General Earthworks 0 m3 \$30 Excl. D.A.B.5 Cut for General Earthworks 0 m3 \$30 Excl. D.A.B.7 Samid Ibloov concrete folipatin (100mm) 6,194 m2 \$5 \$33,819 D.A.B.7 Samid Ibloov concrete folipatin (100mm) 6,194 m2 \$5 \$33,819 D.A.B.7 Samid Ibloov concrete folipatin (100mm) 6,194 m2 \$5 \$33,819 D.A.B.7 Samid Ibloov concrete folipatin (100mm) 6,194 m2 \$5 \$33,819 D.A.D.10 Samid Light Pole incl. all conduits, light cabling, 450 450dia retrofeced concrete pipe including excavation and backlili 1,239 m \$233 \$288,749 D.A.D.2 Side entry pits including liner, cover, excavation, and intersections, in ersections, intersections, intersections, intersectio			_ :,_ :		***				
DAA.12 Mountable Kerb (MK)	D.A.A.9	50mm thick (AC14)	18,582	m2	\$31	\$580,502			
DAA.12 Mountable Kerb (MK)									
Merbing	D.A.A.10	Extra over for 2% red oxide	3,717	m2	\$6	\$23,157			
Merbing	D A A 11	Primer seal	19 592	m2	¢Λ	\$75.071			
D.A.A.12 Mountable Kerb (MK)	D.A.A.11		10,362	1112	Φ4				
D.A.A.13 Kerb openings						4.5			
D.A.A.14 Semi Mountable Kerb (SMK) Line Marking and Furniture	D.A.A.12	Mountable Kerb (MK)	2,478	m	\$25	\$63,040			
D.A.A.14 Semi Mountable Kerb (SMK) 2,478 m \$30 \$73,473 \$0									
Line Marking and Furniture	D.A.A.13	Kerb openings	124	no	\$350	\$43,400			
Line Marking and Furniture	D A A 14	Sami Mauntahla Karh (SMK)	2 479	m	\$20	\$72.472			
D.A.A.15 Line marking Landscaping	D.A.A.14		2,470	"	\$30				
Landscaping		Line manning and rannare				ΨΟ			
D.A.A.16 Soft landscaping 7,020 m2 \$0 Excl. D.A.A.17 Landscape mix 1,755 m3 \$90 \$157,950 D.A.A.18 Rock pitching 413 m2 \$155 \$64,118 D.A.A.19 Drainage layer 7OTAL Road Works 1tem 7OTAL Road Works 1tem 2 \$0 Excl. Earthworks and Site Preparation Earthworks 1,859 m3 \$8 \$15,300 D.A.B.2 Removal of topsoil 150mm and stockpile for later re-use 6,194 m2 \$2 \$9,972 D.A.B.3 Cut to Fill - General Earthworks 1,859 m3 \$8 \$15,300 D.A.B.4 Imported Fill 5	D.A.A.15	Line marking	4,956	m	\$6	\$31,421			
D.A.A.17 Landscape mix D.A.A.18 Rock pitching D.A.A.18 Rock pitching D.A.A.19 Drainage layer TOTAL Road Works D.A.B. Shared Paths Earthworks and Site Preparation D.A.B.1 Site Clearance (based on light shrubs) D.A.B.2 Removal of topsoil 150mm and stockpile for later re-use D.A.B.3 Cut to Fill - General Earthworks D.A.B.4 Inported Fill D.A.B.5 Perparation D.A.B.6 Stoperation D.A.B.7 Sand fill below concrete footpath with broomed finish D.A.B.7 Sand fill below concrete footpath (100mm) D.A.B.7 TOTAL Shared Paths D.A.B.7 Sond Site Preparation D.A.B.7 TOTAL Shared Paths D.A.C.2 excavation, and related overheads D.A.C.2 excavation, and related overheads D.A.C.2 Site Light Pole incl. all conduits, light cabling, excavation, and related overheads D.A.D.1 block old in reinforced concrete pipe including excavation and D.A.D.1 Site of the pipe including excavation and aggregate, geofabric and porous sand D.A.D.2 Site of the pipe including excavation and backfill D.A.D.2 Site of the pipe including excavation and aggregate, geofabric and porous sand D.A.D.2 Site of the pipe including excavation and backfill D.A.D.2 Site of the pipe including excavation and backfill D.A.D.2 Site of the pipe including excavation and aggregate, geofabric and porous sand D.A.D.1 Site of the pipe including excavation and increase of the pipe including aggregate, geofabric and porous sand D.A.D.1 Site of the pipe including increase of the pipe including		Landscaping				\$0			
D.A.A.17 Landscape mix D.A.A.18 Rock pitching D.A.A.18 Rock pitching D.A.A.19 Drainage layer TOTAL Road Works D.A.B. Shared Paths Earthworks and Site Preparation D.A.B.1 Site Clearance (based on light shrubs) D.A.B.2 Removal of topsoil 150mm and stockpile for later re-use D.A.B.3 Cut to Fill - General Earthworks D.A.B.4 Incomported Fill D.A.B.5 Perparation D.A.B.5 Perparation D.A.B.5 Perparation D.A.B.5 Perparation D.A.B.6 Store Street Light Pole incl. all conduits, light cabling. D.A.B.7 SoR Street Lighting D.A.C.2 excavation, and related overheads D.A.C.2 Street Lighting D.A.C.2 Street Lighting D.A.D.1 Street Lighting D.A.D.2 Side entry pits including liner, cover, excavation, and				_					
D.A.A.18	D.A.A.16	Soft landscaping	7,020	m2	\$0	Excl.			
D.A.A.18	D A A 17	Landscape mix	1 755	m3	\$90	\$157 950			
D.A.A.19 Drainage layer TOTAL Road Works TOTAL Road Works TOTAL Road Works Item \$0 Excl. \$2,102,793	0.7 (/ /	Landosapo mix	1,700		φοσ	Ψ.σ.,σσσ			
D.A.B Shared Paths Earthworks and Site Preparation D.A.B.1 Site Clearance (based on light shrubs) 6,194 m2 \$4 \$21,803	D.A.A.18	Rock pitching	413	m2	\$155	\$64,118			
D.A.B Shared Paths Earthworks and Site Preparation D.A.B.1 Site Clearance (based on light shrubs) 6,194 m2 \$4 \$21,803				_					
D.A.B. Shared Paths Earthworks and Site Preparation D.A.B.1 Site Clearance (based on light shrubs) D.A.B.2 Removal of topsoil 150mm and stockpile for later re-use D.A.B.3 Cut to Fill - General Earthworks 1,859 m3 \$8 \$15,300 Imported Fill 0 m3 \$30 Excl. Subgrade Preparation D.A.B.5 Preparation, trim and compact Pathway D.A.B.6 100 thick concrete footpath with broomed finish D.A.B.7 Sand fill below concrete footpath (100mm) D.A.B.8 Sor Sor Street Light Pole incl. all conduits, light cabling, excavation, and related overheads 6.5 DOR Street Light Pole incl. all conduits, light cabling, excavation, and related overheads D.A.C.1 ToTAL Street Light Pole incl. all conduits, light cabling, excavation, and related overheads 1.239 m \$3.442 \$244.362 8.5 DOR Street Light Pole incl. all conduits, light cabling, excavation, and related overheads 1.239 m \$3.342 \$284.367 D.A.D.1 Street Lighting D.A.D.2 Street Light Pole incl. all conduits, light cabling, excavation, and related overheads 1.239 m \$233 \$288,749 D.A.D.2 Street Lighting D.A.D.3 Street Lighting D.A.D.4 Street Lighting D.A.D.5 Street Lighting D.A.D.6 Street Lighting D.A.D.7 Street Lighting D.A.D.8 Street Lighting D.A.D.9 Street Lighting D.	D.A.A.19		7,433		\$0	Excl.	ФО 400 7 00		
Earthworks and Site Preparation D.A.B.1 Site Clearance (based on light shrubs) D.A.B.2 Removal of topsoil 150mm and stockpile for later re-use D.A.B.3 Cut to Fill - General Earthworks 1,859 m3 88 \$15,300 D.A.B.4 Subgrade Preparation D.A.B.5 Preparation, trim and compact Perparation, trim and compact D.A.B.6 100 thick concrete footpath with broomed finish D.A.B.7 Sand fill below concrete footpath (100mm) D.A.B.8 Sand fill below concrete footpath (100mm) TOTAL Shared Paths D.A.C.1 excavation, and related overheads 6.5 DOR Street Light Pole incl. all conduits, light cabling, escavation, and related overheads TOTAL Street Light Fole incl. all conduits, light cabling, accavation, and related overheads TOTAL Street Light Fole incl. all conduits, light cabling, accavation, and related overheads TOTAL Street Light Fole incl. all conduits, light cabling, accavation, and related overheads TOTAL Street Light Fole incl. all conduits, light cabling, accavation, and related overheads TOTAL Street Light Fole incl. all conduits, light cabling, accavation, and related overheads TOTAL Street Light Fole incl. all conduits, light cabling, accavation, and related overheads TOTAL Street Light Fole incl. all conduits, light cabling, accavation, and selated overheads TOTAL Street Light Fole incl. all conduits, light cabling, accavation, and selated overheads TOTAL Street Light Fole incl. all conduits, light cabling, accavation, and selated overheads TOTAL Street Light Fole incl. all conduits, light cabling, accavation, and selated overheads TOTAL Street Light Fole incl. all conduits, light cabling, accavation, and selated overheads TOTAL Street Light Fole incl. all conduits, light cabling, accavation, and selated overheads TOTAL Street Light Fole incl. all conduits, light cabling, accavation, and selated overheads TOTAL Street Light Fole incl. all conduits, light cabling, accavation, and selated overheads TOTAL Street Light Fole incl. all conduits, light cabling, accavation, and selated overheads TOTAL Street Light Fole incl. all con		TOTAL Road Works		item			\$2,102,793		
Earthworks and Site Preparation D.A.B.1 Site Clearance (based on light shrubs) D.A.B.2 Removal of topsoil 150mm and stockpile for later re-use D.A.B.3 Cut to Fili - General Earthworks 1,859 m3 88 \$15,300 D.A.B.4 Subgrade Preparation D.A.B.5 Preparation, trim and compact Preparation, trim and compact D.A.B.6 100 thick concrete footpath with broomed finish D.A.B.7 Sand fill below concrete footpath (100mm) D.A.B.8 Sand fill below concrete footpath (100mm) D.A.B.7 Sand fill below concrete footpath (100mm) D.A.B.7 Sand fill below concrete footpath (100mm) TOTAL Shared Paths D.A.C.1 excavation, and related overheads 6.5 DOR Street Light Pole incl. all conduits, light cabling, excavation, and related overheads TOTAL Street Lighting D.A.C.2 Road Drainage 450dia reinforced concrete pipe including excavation and backfill 150dia stotted PVC subsoil drainage pipe including aggregate, geofabric and porous sand D.A.D.2 Side entry pits including liner, cover, excavation, and Side entry pits including liner, cover, excavation, and D.A.D.2 Side entry pits including liner, cover, excavation, and	D.A.B	Shared Paths							
D.A.B.2 Removal of topsoil 150mm and stockpile for later re-use D.A.B.3 Cut to Fill - General Earthworks 1,859 m3 \$8 \$15,300 D.A.B.4 Imported Fill Subgrade Preparation D.A.B.5 Preparation, trim and compact Preparation Preparation, trim and compact Preparation Preparation, trim and compact Preparation Preparation Preparation Preparation, trim and compact Preparation Prep									
D.A.B.3 Cut to Fill - General Earthworks D.A.B.4 Imported Fill Subgrade Preparation D.A.B.5 Preparation, trim and compact Pathway D.A.B.6 100 thick concrete footpath with broomed finish D.A.B.7 Sand fill below concrete footpath (100mm) TOTAL Shared Paths TOTAL Shared Paths D.A.C.1 Street Lighting 6.5 SOR Street Light Pole incl. all conduits, light cabling, excavation, and related overheads 6.5 DOR Street Light Pole incl. all conduits, light cabling, excavation, and related overheads TOTAL Street Lighting D.A.C.2 excavation, and related overheads TOTAL Street Light Pole incl. all conduits, light cabling, excavation, and related overheads TOTAL Street Light Pole incl. all conduits, light cabling, excavation, and related overheads TOTAL Street Lighting D.A.C.2 excavation, and related overheads TOTAL Street Lighting D.A.D.1 blackfill D.A.D.2 logical reinforced concrete pipe including excavation and backfill D.A.D.1 blackfill D.A.D.2 logical reinforced concrete pipe including aggregate, geofabric and porous sand 1,239 m \$189 \$233,675 CESP mesured at intersections,	D.A.B.1	Site Clearance (based on light shrubs)	6,194	m2	\$4	\$21,803			
D.A.B.3 Cut to Fill - General Earthworks D.A.B.4 Imported Fill Subgrade Preparation D.A.B.5 Preparation, trim and compact Pathway D.A.B.6 100 thick concrete footpath with broomed finish D.A.B.7 Sand fill below concrete footpath (100mm) TOTAL Shared Paths TOTAL Shared Paths D.A.C.1 Street Lighting 6.5 SOR Street Light Pole incl. all conduits, light cabling, excavation, and related overheads 6.5 DOR Street Light Pole incl. all conduits, light cabling, excavation, and related overheads TOTAL Street Lighting D.A.C.2 excavation, and related overheads TOTAL Street Light Pole incl. all conduits, light cabling, excavation, and related overheads TOTAL Street Light Pole incl. all conduits, light cabling, excavation, and related overheads TOTAL Street Lighting D.A.C.2 excavation, and related overheads TOTAL Street Lighting D.A.D.1 blackfill D.A.D.2 logical reinforced concrete pipe including excavation and backfill D.A.D.1 blackfill D.A.D.2 logical reinforced concrete pipe including aggregate, geofabric and porous sand 1,239 m \$189 \$233,675 CESP mesured at intersections,									
D.A.B.4 Imported Fill Subgrade Preparation D.A.B.5 Preparation, trim and compact Pathway D.A.B.6 100 thick concrete footpath with broomed finish D.A.B.7 Sand fill below concrete footpath (100mm) TOTAL Shared Paths D.A.C.1 Street Lighting D.A.C.1 excavation, and related overheads 6.5 DOR Street Light Pole incl. all conduits, light cabling, D.A.C.2 excavation, and related overheads TOTAL Street Lighting D.A.D. Road Drainage 450dia reinforced concrete pipe including D.A.D.1 150dia slotted PVC subsoil drainage pipe including aggregate, geofabric and porous sand D.A.D.2 Side entry pits including liner, cover, excavation, and D.A.D.1 Side entry pits including liner, cover, excavation, and D.A.D.2 Side entry pits including liner, cover, excavation, and D.A.D.2 Side entry pits including liner, cover, excavation, and D.A.D.2 Side entry pits including liner, cover, excavation, and									
Subgrade Preparation D.A.B.5 Preparation, trim and compact Prethway D.A.B.6 100 thick concrete footpath with broomed finish D.A.B.7 Sand fill below concrete footpath (100mm) TOTAL Shared Paths D.A.C. Street Lighting 6.5 SOR Street Light Pole incl. all conduits, light cabling, excavation, and related overheads 6.5 DOR Street Light Pole incl. all conduits, light cabling, excavation, and related overheads TOTAL Street Lighting C. D.A.C. 2 excavation, and related overheads TOTAL Street Light Pole incl. all conduits, light cabling, excavation, and related overheads TOTAL Street Lighting D.A.D. 2 Road Drainage 450dia reinforced concrete pipe including excavation and backfill D.A.D.1 150dia slotted PVC subsoil drainage pipe including aggregate, geofabric and porous sand 1,239 m \$189 \$233,675 CESP mesured at sintersections,									
D.A.B.5 Preparation, trim and compact Pathway D.A.B.6 100 thick concrete footpath with broomed finish D.A.B.7 Sand fill below concrete footpath (100mm) TOTAL Shared Paths D.A.C. Street Lighting 6.5 SOR Street Light Pole incl. all conduits, light cabling, excavation, and related overheads 6.5 DOR Street Light Pole incl. all conduits, light cabling, excavation, and related overheads 71 no \$3,442 \$244,362 6.5 DOR Street Light Pole incl. all conduits, light cabling, excavation, and related overheads TOTAL Street Lighting D.A.C.2 excavation, and related overheads TOTAL Street Lighting D.A.D.1 \$438,783 \$33,819 \$553,744	D.A.B.4	·	O	1113	φου	LXOI.			
D.A.B.6 D.A.B.7 D.A.B.7 Sand fill below concrete footpath with broomed finish D.A.B.7 Sand fill below concrete footpath (100mm) TOTAL Shared Paths D.A.C. Street Lighting 6.5 SOR Street Light Pole incl. all conduits, light cabling, Excavation, and related overheads 6.5 DOR Street Light Pole incl. all conduits, light cabling, Excavation, and related overheads 71 No \$3,442 \$244,362 6.5 DOR Street Light Pole incl. all conduits, light cabling, Excavation, and related overheads 71 No \$5,111 \$183,995 D.A.D. D.A.D. Road Drainage 450dia reinforced concrete pipe including excavation and backfill D.A.D.1 D.A.D.2 Street Lighting 1,239 No \$233 \$288,749 S288,749 S233,675 CESP Mesured at intersections, Side entry pits including liner, cover, excavation, and	D.A.B.5		6,194	m2	\$6	\$34,067			
D.A.B.7 Sand fill below concrete footpath (100mm)		· ·							
D.A.C Street Lighting 6.5 SOR Street Light Pole incl. all conduits, light cabling, excavation, and related overheads 6.5 DOR Street Light Pole incl. all conduits, light cabling, D.A.C.2 excavation, and related overheads 71 no \$3,442 \$244,362 6.5 DOR Street Light Pole incl. all conduits, light cabling, D.A.C.2 excavation, and related overheads 71 no \$3,442 \$244,362 8.5 DOR Street Light Pole incl. all conduits, light cabling, Item D.A.C.2 excavation, and related overheads TOTAL Street Lighting D.A.D Road Drainage 450dia reinforced concrete pipe including excavation and backfill 1,239 m \$233 \$288,749 150dia slotted PVC subsoil drainage pipe including D.A.D.2 aggregate, geofabric and porous sand 1,239 m \$189 \$233,675 CESP mesured at intersections,									
D.A.C Street Lighting 6.5 SOR Street Light Pole incl. all conduits, light cabling, excavation, and related overheads 6.5 DOR Street Light Pole incl. all conduits, light cabling, excavation, and related overheads 71 no \$3,442 \$244,362 6.5 DOR Street Light Pole incl. all conduits, light cabling, excavation, and related overheads 76 no \$5,111 \$183,995 TOTAL Street Lighting D.A.D. Road Drainage 450dia reinforced concrete pipe including excavation and D.A.D.1 backfill 150dia slotted PVC subsoil drainage pipe including D.A.D.2 aggregate, geofabric and porous sand 1,239 m \$189 \$233,675 CESP mesured at intersections,	D.A.B.7		6,194		\$5	\$33,819	Φ==0.744		
6.5 SOR Street Light Pole incl. all conduits, light cabling, excavation, and related overheads 6.5 DOR Street Light Pole incl. all conduits, light cabling, excavation, and related overheads 71 no \$3,442 \$244,362 D.A.C.2 excavation, and related overheads TOTAL Street Lighting D.A.D Road Drainage 450dia reinforced concrete pipe including excavation and backfill 1,239 m \$233 \$288,749 D.A.D.1 backfill 150dia slotted PVC subsoil drainage pipe including aggregate, geofabric and porous sand 1,239 m \$189 \$233,675 CESP mesured at intersections,		TOTAL Shared Paths		Item			\$553,744		
6.5 SOR Street Light Pole incl. all conduits, light cabling, excavation, and related overheads 6.5 DOR Street Light Pole incl. all conduits, light cabling, excavation, and related overheads 71 no \$3,442 \$244,362 D.A.C.2 excavation, and related overheads TOTAL Street Lighting D.A.D Road Drainage 450dia reinforced concrete pipe including excavation and backfill 1,239 m \$233 \$288,749 D.A.D.1 backfill 150dia slotted PVC subsoil drainage pipe including aggregate, geofabric and porous sand 1,239 m \$189 \$233,675 CESP mesured at intersections,	D.A.C	Street Lighting							
D.A.C.1 excavation, and related overheads 6.5 DOR Street Light Pole incl. all conduits, light cabling, excavation, and related overheads TOTAL Street Lighting D.A.D. Road Drainage 450dia reinforced concrete pipe including excavation and backfill 150dia slotted PVC subsoil drainage pipe including aggregate, geofabric and porous sand 1,239 m \$189 \$233,675 CESP mesured at intersections, Side entry pits including liner, cover, excavation, and									
D.A.C.2 excavation, and related overheads TOTAL Street Lighting D.A.D Road Drainage 450dia reinforced concrete pipe including excavation and backfill D.A.D.1 backfill 1,239 m \$233 \$288,749 D.A.D.2 aggregate, geofabric and porous sand 1,239 m \$189 \$233,675 CESP mesured at intersections,	D.A.C.1		71	no	\$3,442	\$244,362			
D.A.D Road Drainage 450dia reinforced concrete pipe including excavation and backfill 150dia slotted PVC subsoil drainage pipe including D.A.D.2 aggregate, geofabric and porous sand Side entry pits including liner, cover, excavation, and									
D.A.D Road Drainage 450dia reinforced concrete pipe including excavation and backfill 150dia slotted PVC subsoil drainage pipe including aggregate, geofabric and porous sand 1,239 m \$233 \$288,749 D.A.D.2 Side entry pits including liner, cover, excavation, and	D.A.C.2		36		\$5,111	\$183,995	\$400.0E7		
D.A.D.1 450dia reinforced concrete pipe including excavation and backfill 1,239 m \$233 \$288,749 D.A.D.2 aggregate, geofabric and porous sand 1,239 m \$189 \$233,675 CESP mesured at intersections,		TOTAL Suggruing		item			⊕4∠ర,357		
D.A.D.1 450dia reinforced concrete pipe including excavation and backfill 1,239 m \$233 \$288,749 D.A.D.2 aggregate, geofabric and porous sand 1,239 m \$189 \$233,675 CESP mesured at intersections,	D.A.D	Road Drainage							
D.A.D.1 backfill 150dia slotted PVC subsoil drainage pipe including aggregate, geofabric and porous sand 1,239 m \$233 \$288,749 D.A.D.2 aggregate, geofabric and porous sand 1,239 m \$189 \$233,675 CESP mesured at intersections,		I							
D.A.D.2 aggregate, geofabric and porous sand 1,239 m \$189 \$233,675 CESP mesured at intersections,	D.A.D.1		1,239	m	\$233	\$288,749			
Side entry pits including liner, cover, excavation, and CESP mesured at intersections,			,		A	A 7 7 7 7 7 7 7 7 7 7			
Side entry pits including liner, cover, excavation, and mesured at intersections,	D.A.D.2	aggregate, geofabric and porous sand	1,239	m	\$189				
Side entry pits including liner, cover, excavation, and intersections,									
		Side entry pits including liner, cover, excavation, and							
D.A.D.3 associated works 0 no \$2,667 RAB's	D.A.D.3		0	no	\$2,667	· ·			



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D.A.D.4	Raised gully / bubble up pits including liner, cover, grate, excavation, rock pitching, and associated works	42	no	\$3,021	\$126,864			
D.A.D.5	6500x600mm box culvert incl. headwall, excavation, backfill, etc.	30	m	\$9,919	\$297,583			
D.A.D.6	Remove existing culvert in preparation for new culvert (approximatley 7m wide) TOTAL Road Drainage	1	LS Item	\$9,823	\$9,823	\$956,695		
<u>D.A.E</u> D.A.E.1	Preliminaries and Project Costs Traffic Management	5.0000	%	\$4,041,589	\$202,079			
D.A.E.2	Project Overheads and Preliminaries (Indirect Construction Costs)	15.0000	%	\$4,041,589	\$606,238			
D.A.E.3 D.A.E.4	Project Owner's Cost (Planning and Design Costs) Risk Contingency Allowance TOTAL Preliminaries and Project Costs TOTAL Road Construction	7.5000 10.0000	% % Item	\$4,041,589 \$5,153,026	\$303,119 \$515,303	\$1,626,740	\$5,668,329	
<u>D.B</u> D.B.A	Watkins Road (Roundabout) Road Works Earthworks and Site Preparation							
D.B.A.1	Site Clearance (based on light shrubs)	2,504	m2	\$4	\$8,814			
D.B.A.2 D.B.A.3 D.B.A.4	Removal of topsoil 150mm and stockpile for later re-use Cut to Fill - General Earthworks Imported Fill Subgrade Properation	2,504 752 0	m2 m3 m3	\$2 \$8 \$30	\$4,031 \$6,189 Excl.			
D.B.A.5	Subgrade Preparation Preparation, trim and compact Sub Base and Base Course	2,504	m2	\$6	\$13,772			
D.B.A.6 D.B.A.7 D.B.A.8	100mm thick crushed rock base course 200mm thick compacted limestone sub base 250mm thick compacted limestone sub base	1,983 1,983	m2 m2 m2	\$8 \$14 \$17	\$16,300 \$0 \$34,663			
D.B.A.9	Road Paving 50mm thick (AC14)	1,518	m2	\$31	\$47,422			
D.B.A.10	Primer seal Brick Paving	1,518	m2 Item	\$4	\$6,133 \$0			
D.B.A.11	80 thick brick pavers	333	m2	\$100	\$33,333			
D.B.A.12	30 thick compacted sand bed	180	m2	\$2	\$295			
D.B.A.13	40 thick compacted sand bed (RAB)	153	m2	\$2	\$335			
D.B.A.14	170mm thick compacted limestone	180	m2	\$11	\$2,047			
D.B.A.15	250mm thick compacted limestone sub base Kerbing	153	m2	\$17	\$2,674			
D.B.A.16	Mountable Kerb (MK)	70	m	\$25	\$1,781			
D.B.A.17	Semi Mountable Kerb (SMK)	143	m	\$30	\$4,240			
D.B.A.18	Barrier Kerb (BK) Line Marking and Furniture	54	m	\$53	\$2,869			
D.B.A.19	Line marking	53	m	\$6	\$336			
D.B.A.20	Street sign post	1	no	\$122	\$122			
D.B.A.21	Street name plate	2	no	\$199	\$398			
D.B.A.22	Chevron sign	1	no	\$613	\$613			
D.B.A.23	Traffic sign Landscaping	3	no	\$450	\$1,350 \$0			
D.B.A.24	Soft landscaping	227	m2	\$0	Excl.			
D.B.A.25	Landscape mix Other	57	m3	\$90	\$5,130			
D.B.A.26	Allow for connection to Watkins Road (both sides) TOTAL Road Works		item Item		\$20,000	\$212,847		
<u>D.B.B</u>	Shared Paths Earthworks and Site Preparation							
D.B.B.1	Site Clearance (based on light shrubs)	356	m2	\$4	\$1,253			
	Removal of topsoil 150mm and stockpile for later re-use Cut to Fill - General Earthworks	356 107	m2 m3	\$2 \$8	\$573 \$881			



	GONALILI SONVETORS & CONSTRUCTION COST CONSULTANTS							
_	Imported Fill	0	m3	\$30	Excl.			
	Subgrade Preparation	250		0.0	04.050			
	Preparation, trim and compact Pathway	356	m2	\$6	\$1,958			
	100 thick concrete footpath with broomed finish	356	m2	\$71	\$25,219			
	Sand fill below concrete path (100mm)	356	m2	\$5	\$1,944			
	Pram ramp including tactile	6	no	\$973	\$5,836			
	Tactile paving Line Marking and Furniture	10	m2	\$325	\$3,250			
	Traffic sign TOTAL Shared Paths	2	no Item	\$450	\$900	\$41,814		
D.B.C	Street Lighting							
D.B.C.1	6.5 SOR Street Light Pole incl. all conduits, light cabling, excavation, and related overheads TOTAL Street Lighting	4	no Item	\$3,442	\$13,767	\$13,767		
	Road Drainage 450dia reinforced concrete pipe including excavation and							
	backfill	130	m	\$233	\$30,297			
	Side entry pits including liner, cover, excavation, and							
	associated works TOTAL Road Drainage	4	no Item	\$2,667	\$10,666	\$40,963		
	Preliminaries and Project Costs Traffic Management	5.0000	%	\$309,390	\$15,470			
	Project Overheads and Preliminaries (Indirect Construction Costs)	15.0000	%	\$309,390	\$46,409			
0055	Ducket Outrack Cost (State)	7.5000	0.1	# 000 05 =	#00.00 :			
	Project Owner's Cost (Planning and Design Costs) Risk Contingency Allowance	7.5000 10.0000	% %	\$309,390 \$394,473	\$23,204 \$39,447			
	TOTAL Preliminaries and Project Costs	10.0000	Item	φοσ-1, 17 σ	φοσ, ττι	\$124,530		
	TOTAL Watkins Road (Roundabout)						\$433,920	
D.C	Galvin Road (Roundabout)							
	Road Works							
	Earthworks and Site Preparation							
D.C.A.1	Site Clearance (based on light shrubs)	2,504	m2	\$4	\$8,814			
D.C.A.2	Removal of topsoil 150mm and stockpile for later re-use	2,504	m2	\$2	\$4,031			
D.C.A.3	Cut to Fill - General Earthworks	752	m3	\$8	\$6,189			
	Imported Fill	0	m3	\$30	Excl.			
	Subgrade Preparation Preparation, trim and compact	2,504	m2	\$6	\$13,772			
	Sub Base and Base Course	2,001		ΨΟ	ψ10,772			
	100mm thick crushed rock base course	1,983	m2	\$8	\$16,300			
	250mm thick compacted limestone sub base Road Paving	1,983	m2	\$17	\$34,663			
	50mm thick (AC14)	1,518	m2	\$31	\$47,422			
D.C.A.9	Primer seal	1,518	m2	\$4	\$6,133			
	Brick Paving							
D.C.A.10	80 thick brick pavers	333	m2	\$100	\$33,333			
D.C.A.11	30 thick compacted sand bed	180	m2	\$2	\$295			
D.C.A.12	40 thick compacted sand bed (RAB)	153	m2	\$2	\$335			
D.C.A.13	170mm thick compacted limestone	180	m2	\$11	\$2,047			
	250mm thick compacted limestone sub base Kerbing	153	m2	\$17	\$2,674			
D.C.A.15	Mountable Kerb (MK)	70	m	\$25	\$1,781			
D.C.A.16	Semi Mountable Kerb (SMK)	143	m	\$30	\$4,240			
	Barrier Kerb (BK) Line Marking and Furniture	54	m	\$53	\$2,869			
D.C.A.18	Line marking	53	m	\$6	\$336			
		1	no	\$122	\$122			
D.C.A.19	Street sign post	'						
D.C.A.20	Street name plate	2	no	\$199	\$398			
D.C.A.20 D.C.A.21				\$199 \$613	\$398 \$613			



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D.C.A.23	Soft landscaping	227	m2	\$0	Excl.				
D.C.A.24	Landscape mix Other	57	m3	\$90	\$5,130				
D.C.A.25	Allow for connection to Galvin Road (both sides) TOTAL Road Works		item Item		\$20,000	\$212,847			
D.C.B	Shared Paths Earthworks and Site Preparation								
D.C.B.1	Site Clearance (based on light shrubs)	356	m2	\$4	\$1,253				
D.C.B.2 D.C.B.3	Removal of topsoil 150mm and stockpile for later re-use Cut to Fill - General Earthworks	356 107	m2 m3	\$2 \$8	\$573 \$881				
D.C.B.4	Imported Fill	0	m3	\$30	Excl.				
D.C.B.5	Subgrade Preparation Preparation, trim and compact Pathway	356	m2	\$6	\$1,958				
D.C.B.6 D.C.B.7	100 thick concrete footpath with broomed finish Sand fill below concrete path (100mm)	356 356	m2 m2	\$71 \$5	\$25,219 \$1,944				
D C D C	Pram ramp	0	no	\$670	ФE 000				
D.C.B.8 D.C.B.9	Pram ramp including tactile Tactile paving	6 10	no m2	\$973 \$325	\$5,836 \$3,250				
	Line Marking and Furniture								
D.C.B.10	Traffic sign TOTAL Shared Paths	2	no Item	\$450	\$900	\$41,814			
D.C.C	Street Lighting								
D.C.C.1	6.5 SOR Street Light Pole incl. all conduits, light cabling, excavation, and related overheads	4	no	\$3,442	\$13,767				
	TOTAL Street Lighting	-	Item	+-, · · -	4.0,. 0.	\$13,767			
D.C.D	Road Drainage								
	450dia reinforced concrete pipe including excavation and	400		4000	400.007				
D.C.D.1	backfill Side entry pits including liner, cover, excavation, and	130	m	\$233	\$30,297				
D.C.D.2	associated works TOTAL Road Drainage	4	no Item	\$2,667	\$10,666	\$40,963			
D.C.E	Preliminaries and Project Costs								
D.C.E.1	Traffic Management Project Overheads and Preliminaries (Indirect	5.0000	%	\$309,390	\$15,470				
D.C.E.2	Construction Costs)	15.0000	%	\$309,390	\$46,409				
D.C.E.3	Project Owner's Cost (Planning and Design Costs)	7.5000	%	\$309,390	\$23,204				
D.C.E.4	Risk Contingency Allowance	10.0000	%	\$394,473	\$39,447				
	TOTAL Preliminaries and Project Costs TOTAL Galvin Road (Roundabout)		Item			\$124,530	\$433,920		
	, ,						, 11,1		
<u>D.D</u> D.D.A	<u>Utilitities</u> Power and Lighting (Western Power)								
	General Provisional Sum of \$100,000 as it is not clear if								
D.D.A.1	diversions are requred TOTAL Power and Lighting (Western Power)	1	PS Item	\$100,000	\$100,000	\$100,000			
						,,			
D.D.B	Communications (NBN / Telstra / Westnet / etc.) General Provisional Sum of \$100,000 as it is not clear if								
D.D.B.1	diversions are requred	1	PS	\$100,000	\$100,000				
	TOTAL Communications (NBN / Telstra / Westnet / etc.)		Item			\$100,000			
D.D.C	Water and Sewer (Water Corporation)								
	No allowance has been made for Water Corporation								
	diversions as we do not see existing mains from our desktop study		Note						
	TOTAL Water and Sewer (Water Corporation)		Item			\$0			
D.D.D	Gas (ATCO)								
	No allowance has been made for ATCO diversions as								
	we do not see existing valves from our desktop study TOTAL Gas (ATCO)		Note Item			\$0			
D.D.E	Preliminaries and Project Costs								
D.D.E.1	Traffic Management	10.0000	%	\$200,000	\$20,000				
D.D.E.2	Project Overheads and Preliminaries (Indirect Construction Costs)	15.0000	%	\$200,000	\$30,000				
	Project Owner's Cost (Planning and Design Costs)	5.0000	%	\$200,000 \$260,000	\$10,000 \$26,000				
JD.D.⊑.4	Risk Contingency Allowance	10.0000	%	ψ200,000	\$26,000	I	I	I	I



	TOTAL Preliminaries and Project Costs TOTAL Utilitities		Item			\$86,000	\$286,000	
A.A.A.7	Estimated Imported Fill	12,060	m3					
A.A.A.5	Total m3 of Cut to Fill - General Earthworks	14,355	m3					
	Less Cut to Filll costed	0	m3	\$30	\$0			
	Total Adjustment for Imported Fill (less Cut to Fill)	See "In	nported Fill	" sheet at the	end of these co	stings.	\$0	
	TOTAL Road - North-South Road		ltem					\$6,822,168



Code	Description	Quantity	UOM	Rate	Subtotal	Sub Section Total	Section Total	Road/ DOS Total
E	ROAD – SKYLINE BOULEVARD							
<u>E.A</u>	Road Construction							
E.A.A	Road Works Earthworks and Site Preparation				\$0			
E.A.A.1	Site Clearance (based on light shrubs)	6,817	m2	\$4	\$23,996			
E.A.A.2	Removal of topsoil 150mm and stockpile for later re-use	6,817	m2	\$2	\$10,975			
E.A.A.3	Cut to Fill - General Earthworks	2,231	m3	\$8	\$18,361			
	Imported Fill	0	m3	\$30	\$0			
E.A.A.5	Form swale Subgrade Preparation	620	m2	\$4	\$2,350 \$0			
E.A.A.6	Preparation, trim and compact	6,817	m2	\$6	\$37,494			
E.A.A.7	Sub Base and Base Course 100mm thick crushed rock base course	4,617	m2	\$8	\$0 \$37,952			
E.A.A.8	200mm thick compacted limestone sub base	4,617	m2	\$14	\$64,592			
	Road Paving				\$0			
E.A.A.9	30mm thick (AC10)	3,486	m2	\$18	\$63,410			
E.A.A.10	Primer seal Kerbing	3,486	m2	\$4	\$14,083 \$0			
E.A.A.11	Mountable Kerb (MK)	620	m	\$25	\$15,773			
E.A.A.12	Kerb openings	31	no	\$350	\$10,850			
E.A.A.13	Semi Mountable Kerb (SMK)	620	m	\$30	\$18,383			
E.A.A.14	Concrete flush edge beam Line Marking and Furniture	155	m	\$67	\$10,393 \$0			
E.A.A.15	Line marking Landscaping	620	m	\$6	\$3,931 \$0			
					·			
E.A.A.16	Soft landscaping	878	m2	\$0	Excl.			
E.A.A.17	Landscape mix	220	m3	\$90	\$19,800			
E.A.A.18	Rock pitching	52	m2	\$155	\$8,073			
E.A.A.19	Drainage layer Other	930	m2	\$0	Excl.			
E.A.A.20	Connection to existing TOTAL Road Works		item Item		\$10,000	\$370,415		
E.A.B	Shared Paths							
	Earthworks and Site Preparation		_	•				
E.A.B.1	Site Clearance (based on light shrubs)	1,550	m2	\$4	\$5,456			
E.A.B.2	Removal of topsoil 150mm and stockpile for later re-use	1,550	m2	\$2	\$2,496			
	Cut to Fill - General Earthworks	465	m3	\$8	\$3,827			
E.A.B.4	Imported Fill Subgrade Preparation	0	m3	\$30	Excl.			
E.A.B.5	Preparation, trim and compact Pathway	1,550	m2	\$6	\$8,525			
E.A.B.6	100 thick concrete footpath with broomed finish	1,550	m2	\$71	\$109,802			
E.A.B.7	Sand fill below concrete footpath (100mm) TOTAL Shared Paths	1,550	m2 Item	\$5	\$8,463	\$138,568		
E.A.C	Street Lighting							
	6.5 DOR Street Light Pole incl. all conduits, light cabling,							
E 4 0 1	excavation, and related overheads (as per remainder of	0		ΦE 444	¢45.000			
E.A.C.1	Skyline Blvd) TOTAL Street Lighting	9	no Item	\$5,111	\$45,999	\$45,999		
	1017.2 Ottoot Eighting		ileili			ψ+υ,υυυ		
E.A.D	Road Drainage							
E.A.D.1	450dia reinforced concrete pipe including excavation and backfill	310	m	\$233	\$72,246			
	150dia slotted PVC subsoil drainage pipe including	310	'''	Ψ200				
E.A.D.2	aggregate, geofabric and porous sand	310	m	\$189	\$58,466			



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					CESP			
	Side entry pits including liner, cover, excavation, and				mesured at intersections,			
E.A.D.3	associated works	0	no	\$2,667	RAB's			
E.A.D.4	Raised gully / bubble up pits including liner, cover, grate, excavation, rock pitching, and associated works	11	no	\$3,021	\$33,226			
2.7 (1.0.1	TOTAL Road Drainage	• •	Item	Ψο,σΣι	ψου,220	\$163,938		
<u>E.A.E</u> E.A.E.1	Preliminaries and Project Costs Traffic Management	5.0000	%	\$718,920	\$35,946			
L.A.L.I	Project Overheads and Preliminaries (Indirect	3.0000	70	ψ/10,320	ψ55,546			
E.A.E.2	Construction Costs)	15.0000	%	\$718,920	\$107,838			
E.A.E.3	Project Owner's Cost (Planning and Design Costs)	7.5000	%	\$718,920	\$53,919			
E.A.E.4	Risk Contingency Allowance	10.0000	%	\$916,624	\$91,662			
	TOTAL Preliminaries and Project Costs		Item			\$289,365		
	TOTAL Road Construction						\$1,008,286	
<u>E.B</u>	New Whitby Road (Roundabout)							
<u>E.B.A</u>	Road Works							
E.B.A.1	Earthworks and Site Preparation Site Clearance (based on light shrubs)	2,504	m2	\$4	\$8,814			
L.B.A.T	one olearance (based of light strabs)	2,004	1112	Ψ	ψ0,014			
E.B.A.2	Removal of topsoil 150mm and stockpile for later re-use	2,504	m2	\$2	\$4,031			
E.B.A.3 E.B.A.4	Cut to Fill - General Earthworks Imported Fill	752 0	m3 m3	\$8 \$30	\$6,189 Excl.			
L.D.A.4	Subgrade Preparation	J	"	Ψου	LXG.			
E.B.A.5	Preparation, trim and compact	2,504	m2	\$6	\$13,772			
E.B.A.6	Sub Base and Base Course 100mm thick crushed rock base course	1,983	m2	\$8	\$16,300			
E.B.A.7	250mm thick compacted limestone sub base	1,983	m2	\$17	\$34,663			
	Road Paving			***	.			
E.B.A.8 E.B.A.9	50mm thick (AC14) Primer seal	1,518 1,518	m2 m2	\$31 \$4	\$47,422 \$6,133			
2.2.70	Brick Paving	1,010	Item	Ψ.	\$0			
- D A 40				# 400	.			
E.B.A.10	80 thick brick pavers	333	m2	\$100	\$33,333			
E.B.A.11	30 thick compacted sand bed	180	m2	\$2	\$295			
E D A 40	40 thick composted and had (DAR)	450	O	¢o.	\$22 5			
E.B.A.12	40 thick compacted sand bed (RAB)	153	m2	\$2	\$335			
E.B.A.13	170mm thick compacted limestone	180	m2	\$11	\$2,047			
E B A 14	250mm thick compacted limestone sub base	153	m2	\$17	\$2,674			
E.B.A. 14	Kerbing	100	1112	Ф17	\$2,674			
E.B.A.15	Mountable Kerb (MK)	70	m	\$25	\$1,781			
E.B.A.16	Semi Mountable Kerb (SMK)	143	m	\$30	\$4,240			
E.B.A.17	Barrier Kerb (BK) Line Marking and Furniture	54	m	\$53	\$2,869			
	Line Marking and Furniture							
E.B.A.18	Line marking	53	m	\$6	\$336			
F B A 10	Street sign post	1	no	\$122	\$122			
L.D.A. 19	etrest sign post	ı	110	ΨΙΖΖ	ΨΙΖΖ			
E.B.A.20	Street name plate	2	no	\$199	\$398			
E.B.A.21	Chevron sign	1	no	\$613	\$613			
		•		ψ515	ΨΟΙΟ			
E.B.A.22	Traffic sign	3	no	\$450	\$1,350			
	Landscaping				\$0			
E.B.A.23	Soft landscaping	227	m2	\$0	Excl.			
E B A O 1	Landagana miy	57	0	# 00	PE 400			
E.B.A.24	Landscape mix TOTAL Road Works	57	m3 Item	\$90	\$5,130	\$192,847		
						Ţ. 5 <u>=</u> ,6 Ŧ/		
<u>E.B.B</u>	Shared Paths Forthweeks and Site Proporation							
E.B.B.1	Earthworks and Site Preparation Site Clearance (based on light shrubs)	356	m2	\$4	\$1,253			
E.B.B.2 E.B.B.3	Removal of topsoil 150mm and stockpile for later re-use Cut to Fill - General Earthworks	356 107	m2	\$2 ¢e	\$573 \$881			
E.B.B.3 E.B.B.4	Imported Fill	107 0	m3 m3	\$8 \$30	\$881 Excl.			
	Subgrade Preparation							
E.B.B.5	Preparation, trim and compact Pathway	356	m2	\$6	\$1,958			
I	i auiway		I	l	I I		I	(



	QUANTITY SURVEYORS & CONSTRUCTION COST CONSULTANTS							
	100 thick concrete footpath with broomed finish Sand fill below concrete path (100mm)	356 356	m2 m2	\$71 \$5	\$25,219 \$1,944			
E.B.B.8 E.B.B.9	Pram ramp including tactile Tactile paving	6 10	no m2	\$973 \$325	\$5,836 \$3,250			
	Line Marking and Furniture			,,,,,	, -,			
E.B.B.10	Traffic sign TOTAL Shared Paths	2	no Item	\$450	\$900	\$41,814		
E.B.C	Street Lighting 6.5 SOR Street Light Pole incl. all conduits, light cabling,							
E.B.C.1	excavation, and related overheads TOTAL Street Lighting	4	no Item	\$3,442	\$13,767	\$13,767		
E.B.D	Road Drainage 450dia reinforced concrete pipe including excavation							
E.B.D.1	and backfill Side entry pits including liner, cover, excavation, and	130	m	\$233	\$30,297			
E.B.D.2	associated works TOTAL Road Drainage	4	no Item	\$2,667	\$10,666	\$40,963		
<u>E.B.E</u> E.B.E.1	Preliminaries and Project Costs Traffic Management Project Overheads and Preliminaries (Indirect	5.0000	%	\$289,390	\$14,470			
E.B.E.2	Construction Costs)	15.0000	%	\$289,390	\$43,409			
	Project Owner's Cost (Planning and Design Costs) Risk Contingency Allowance TOTAL Preliminaries and Project Costs TOTAL New Whitby Road (Roundabout)	7.5000 10.0000	% % Item	\$289,390 \$368,973	\$21,704 \$36,897	\$116,480	\$405,870	
E.C E.C.A	Tinspar Avenue (Roundabout) - already constructed							
E.C.A.1	Road Works Already Constructed TOTAL Road Works		Item		\$0	\$0		
	Shared Paths Already Constructed TOTAL Shared Paths		Item		\$0	\$0		
E.C.C E.C.C.1	Street Lighting Already Constructed TOTAL Street Lighting		Item		\$0	\$0		
	Road Drainage Already Constructed				\$0			
E.C.D.1	TOTAL Road Drainage		Item		ΦΟ	\$0		
<u>E.C.E</u> E.C.E.1	Preliminaries and Project Costs Already Constructed TOTAL Preliminaries and Project Costs TOTAL Tinspar Avenue (Roundabout) - already constructed		ltem		\$0	\$0	\$0	
<u>E.D</u>	<u>Utilitities</u>							
E.D.A	Power and Lighting (Western Power) No allowance has been made for Western Power diversions as we do not see existing mains from our desktop study TOTAL Power and Lighting (Western Power)		Note Item			\$0		
E.D.B	Communications (NBN / Telstra / Westnet / etc.) No allowance has been made for Communications diversions as we do not see existing mains from our desktop study		Note					
	TOTAL Communications (NBN / Telstra / Westnet / etc.)		Item			\$0		
E.D.C	Water and Sewer (Water Corporation) No allowance has been made for Water Corporation diversions as we do not see existing mains from our desktop study TOTAL Water and Sewer (Water Corporation)		Note Item			\$0		
E.D.D	Gas (ATCO)							
	No allowance has been made for ATCO diversions as we do not see existing valves from our desktop study TOTAL Gas (ATCO)		Note Item			\$0		



	TOTAL Road (Remaining) – Skyline Boulevard Prefunded build completed prior to gazettal of the Amendment under DCP Condition Total to be included in DCP1		Item					\$1,414,156 \$1,320,000 \$2,734,156
	Total Adjustment for Imported Fill (less Cut to Fill)	See "In	nported Fill	" sheet at the	end of these co	estings.	\$0	
	Less Cut to Filll costed	0	m3	\$30	\$0			
A.A.A.5	Total m3 of Cut to Fill - General Earthworks	3,555	m3					
A.A.A.7	Estimated Imported Fill	2,640	m3					
	TOTAL Utilitities		illom			Ψ	\$0	
E.D.E.4	Risk Contingency Allowance TOTAL Preliminaries and Project Costs	10.0000	% Item	\$0	\$0	\$0		
E.D.E.3	Project Owner's Cost (Planning and Design Costs)	5.0000	%	\$0 \$0	\$0 \$0			
E.D.E.2	Construction Costs)	15.0000	%	\$0	\$0			
E.D.E.1	Traffic Management Project Overheads and Preliminaries (Indirect	10.0000	%	\$0	\$0			
E.D.E	Preliminaries and Project Costs							



Code	Description	Quantity	UOM	Rate	Subtotal	Sub Section Total	Section Total	Road/ DOS Total
F	ROAD – TINSPAR AVENUE							
<u>F.A</u>	Road Construction							
F.A.A	Road Works Earthworks and Site Preparation				\$0			
F.A.A.1	Site Clearance (based on light shrubs)	26,701	m2	\$4	\$93,988			
F.A.A.2	Removal of topsoil 150mm and stockpile for later re-use	26,701	m2	\$2	\$42,989			
F.A.A.3	Cut to Fill - General Earthworks	8,739	m3	\$8	\$71,922			
F.A.A.4 F.A.A.5	Imported Fill Form swale	0 2,428	m3 m2	\$30 \$4	Excl. \$9,202			
	Subgrade Preparation		_		\$0			
F.A.A.6	Preparation, trim and compact Sub Base and Base Course	26,701	m2	\$6	\$146,856			
F.A.A.7	100mm thick crushed rock base course	15,050	m2	\$8	\$123,711			
F.A.A.8	200mm thick compacted limestone sub base Road Paving	15,050	m2	\$14	\$210,550 \$0			
F.A.A.9	30mm thick (AC10)	12,137	m2	\$18	\$220,772			
F.A.A.10	Primer seal	12,137	m2	\$4	\$49,033			
	Brick Paving		Item		\$0			
F.A.A.11	80 thick brick pavers	3,035	m2	\$100	\$303,804			
F.A.A.12	30 thick compacted sand bed	3,035	m2	\$2	\$4,977			
F.A.A.13	170mm thick compacted limestone Kerbing	3,035	m2	\$11	\$34,508 \$0			
F.A.A.14	Mountable Kerb (MK)	2,428	m	\$25	\$61,768			
F.A.A.15	Kerb openings	122	no	\$350	\$42,700			
F.A.A.16	Semi Mountable Kerb (SMK)	2,428	m	\$30	\$71,990			
F.A.A.17	Concrete flush edge beam Line Marking and Furniture	1,214	m	\$67	\$81,399 \$0			
F.A.A.18	Line marking Landscaping	2,428	m	\$6	\$15,394 \$0			
F.A.A.19	Soft landscaping	3,439	m2	\$0	Excl.			
F.A.A.20	Landscape mix	860	m3	\$90	\$77,400			
F.A.A.21	Rock pitching	203	m2	\$155	\$31,516			
F.A.A.22	Drainage layer TOTAL Road Works	3,642	m2 Item	\$0	Excl.	\$1,694,477		
<u>F.A.B</u>	Shared Paths Earthworks and Site Preparation							
F.A.B.1	Site Clearance (based on light shrubs)	6,069	m2	\$4	\$21,363			
F.A.B.2	Removal of topsoil 150mm and stockpile for later re-use	6,069	m2	\$2	\$9,771			
F.A.B.3 F.A.B.4	Cut to Fill - General Earthworks Imported Fill	1,821 0	m3 m3	\$8 \$30	\$14,987 Excl.			
1 .7.5.4	Subgrade Preparation	O	1113		LAGI.			
F.A.B.5	Preparation, trim and compact Pathway	6,069	m2	\$6	\$33,380			
F.A.B.6	100 thick concrete footpath with broomed finish	6,069	m2	\$71	\$429,928			
F.A.B.7	Sand fill below concrete footpath (100mm) TOTAL Shared Paths	6,069	m2 Item	\$5	\$33,137	\$542,565		
F.A.C	Street Lighting 6.5 DOR Street Light Pole incl. all conduits, light cabling,							
F.A.C.1	excavation, and related overheads (as per remainder of Skyline Blvd) TOTAL Street Lighting	35	no Item	\$5,111	\$178,884	\$178,884		
F.A.D	Road Drainage							
F.A.D.1	450dia reinforced concrete pipe including excavation and backfill	1,214	m	\$233	\$282,923			



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F.A.D.2	150dia slotted PVC subsoil drainage pipe including aggregate, geofabric and porous sand	1,214	m	\$189	\$228,960 CESP mesured at			
F.A.D.3	Side entry pits including liner, cover, excavation, and associated works	0	no	\$2,667	intersections, RAB's			
F.A.D.4	Raised gully / bubble up pits including liner, cover, grate, excavation, rock pitching, and associated works TOTAL Road Drainage	41	no Item	\$3,021	\$123,844	\$635,727		
<u>F.A.E</u> F.A.E.1	Preliminaries and Project Costs Traffic Management	5.0000	%	\$3,051,653	\$152,583			
F.A.E.2	Project Overheads and Preliminaries (Indirect Construction Costs)	15.0000	%	\$3,051,653	\$457,748			
	Project Owner's Cost (Planning and Design Costs) Risk Contingency Allowance TOTAL Preliminaries and Project Costs TOTAL Road Construction	7.5000 10.0000	% % Item	\$3,051,653 \$3,890,858	\$228,874 \$389,086	\$1,228,290	\$4,279,944	
<u>F.B</u>	Kiernan Street (Seagull Intersection) - already constructed							
<u>F.B.A</u> F.B.A.1	Road Works Already Constructed TOTAL Road Works		Item		\$0	\$0		
<u>F.B.B</u> F.B.B.1	Shared Paths Already Constructed TOTAL Shared Paths		ltem		\$0	\$0		
<u>F.B.C</u> F.B.C.1	Street Lighting Already Constructed TOTAL Street Lighting		Item		\$0	\$0		
<u>F.B.D</u> F.B.D.1	Road Drainage Already Constructed TOTAL Road Drainage		Item		\$0	\$0		
<u>F.B.E</u> F.B.E.1	Preliminaries and Project Costs Already Constructed TOTAL Preliminaries and Project Costs TOTAL Kiernan Street (Seagull Intersection) - already constructed		ltem		\$0	\$0	\$0	
F.C F.C.A	South Western Highway (Channelised Intersection) Road Works							
F.C.A.1	Earthworks and Site Preparation Site Clearance (based on light shrubs)	2,550	m2	\$4	\$0 \$8,976			
	Removal of topsoil 150mm and stockpile for later re-use	2,550	m2	\$2	\$4,106			
	Cut to Fill - General Earthworks Detailed excavation - mill and profile	765	m3	\$8 \$19	\$6,296 \$34,464			
	Imported Fill	1,800 0	m2 m3	\$30	\$34,164 Excl.			
	Subgrade Preparation				\$0			
F.C.A.6	Preparation, trim and compact Sub Base and Base Course	2,550	m2	\$6	\$14,025 \$0			
F.C.A.7	100mm thick crushed rock base course	2,466	m2	\$8 \$17	\$20,271			
F.C.A.8 F.C.A.9	250mm thick compacted limestone sub base Road Paving 50mm thick (AC14)	2,466 1,980	m2 m2	\$31	\$43,106 \$0 \$61,855			
F.C.A.10	Extra over for 2% red oxide	90	m2	\$6	\$561			
F.C.A.11	Primer seal Kerbing	1,980	m2	\$4	\$7,999 \$0			
F.C.A.12	Mountable Kerb (MK)	60	m	\$25	\$1,526			
F.C.A.13	Semi Mountable Kerb (SMK) Line Marking and Furniture	80	m	\$30	\$2,372 \$0			
F.C.A.14	Line marking	660	m	\$6	\$4,184			
F.C.A.15	Street sign post	1	no	\$122	\$122			
F.C.A.16	Street name plate	2	no	\$199	\$398			
I	Chevron sign	1	no	\$613	\$613			



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F.C.A.18	Traffic sign Landscaping	3	no	\$450	\$1,350 \$0			
F.C.A.19	Soft landscaping	180	m2	\$0	Excl.			
F.C.A.20	Landscape mix	42	m3	\$90	\$3,780			
F.C.A.21	Rock pitching	8	m2	\$155	\$1,242			
F.C.A.22	Drainage layer Other	180	m2	\$0	Excl.			
F.C.A.23	Allow for connection to SWH TOTAL Road Works		item Item		\$20,000	\$236,945		
F.C.B	Shared Paths							
F.C.B.1	Earthworks and Site Preparation Site Clearance (based on light shrubs)	150	m2	\$4	\$528			
F.C.B.3	Removal of topsoil 150mm and stockpile for later re-use Cut to Fill - General Earthworks Imported Fill	150 45 0	m2 m3 m3	\$2 \$8 \$30	\$242 \$370 Excl.			
F.C.B.5	Subgrade Preparation Preparation, trim and compact	150	m2	\$6	\$825			
F.C.B.6 F.C.B.7 F.C.B.8	Pathway 100 thick concrete footpath with broomed finish Sand fill below concrete footpath (100mm) Pram ramp including tactile	150 150 2	m2 m2 no	\$71 \$5 \$973	\$10,626 \$819 \$1,945			
F.C.B.9	Line Marking and Furniture Traffic sign TOTAL Shared Paths	2	no Item	\$450	\$900	\$16,255		
<u>F.C.C</u> F.C.C.1	Street Lighting 6.5 SOR Street Light Pole incl. all conduits, light cabling, excavation, and related overheads TOTAL Street Lighting	2	no Item	\$3,442	\$6,883	\$6,883		
<u>F.C.D</u> F.C.D.1	Road Drainage 450dia reinforced concrete pipe including excavation and backfill	90	m	\$233	\$20,975			
F.C.D.2	Side entry pits including liner, cover, excavation, and associated works TOTAL Road Drainage	2	no Item	\$2,667	\$5,333	\$26,308		
<u>F.C.E</u> F.C.E.1	Preliminaries and Project Costs Traffic Management	5.0000	%	\$286,391	\$14,320			
F.C.E.2	Project Overheads and Preliminaries (Indirect Construction Costs)	15.0000	%	\$286,391	\$42,959			
	Project Owner's Cost (Planning and Design Costs) Risk Contingency Allowance TOTAL Preliminaries and Project Costs TOTAL South Western Highway (Channelised Intersection)	7.5000 10.0000	% % Item	\$286,391 \$365,148	\$21,479 \$36,515	\$115,272	\$401,663	
F.D F.D.A F.D.A.1	Utilitities Power and Lighting (Western Power) General Provisional Sum of \$50,000 as it is not clear if diversions are requred TOTAL Power and Lighting (Western Power)	1	PS Item	\$50,000	\$50,000	\$50,000		
F.D.B	Communications (NBN / Telstra / Westnet / etc.)		пеш			\$30,000		
F.D.B.1	General Provisional Sum of \$50,000 as it is not clear if diversions are required	1	PS	\$50,000	\$50,000			
	TOTAL Communications (NBN / Telstra / Westnet / etc.)		Item			\$50,000		
F.D.C.1	Water and Sewer (Water Corporation) Offset and sleeve approximatley 30m road length of water and sewer about 1m deeper from the current location - Provisional Sum TOTAL Water and Sewer (Water Corporation)	1	PS Item	\$49,068	\$49,068	\$49,068		
F.D.D	Gas (ATCO)							
	No allowance has been made for ATCO diversions as we do not see existing valves from our desktop study TOTAL Gas (ATCO)		Note Item			\$0		
F.D.E	Preliminaries and Project Costs							



Traffic Management	5.0000	%	\$149,068	\$7,453	İ		
Project Overheads and Preliminaries (Indirect							
Construction Costs)	15.0000	%	\$149,068	\$22,360			
Project Owner's Cost (Planning and Design Costs)	5.0000	%	\$149,068	\$7,453			
Risk Contingency Allowance	10.0000	%	\$186,335	\$18,633			
TOTAL Preliminaries and Project Costs		Item			\$55,900		
TOTAL Utilitities						\$204,968	
E	0.745	0					
<u>-</u>							
	11,370	m3					
Less Cut to FillI costed	0	m3	\$30	\$0			
Total Adinates and for Immented Fill (local Cut to Fill)	0 "					¢0	
Total Adjustment for imported Fill (less Cut to Fill)	See "In	пропеа Еш	sneet at the	ena of these co	ostings.	\$ U	
TOTAL Road – Tinspar Avenue		ltem					\$4,886,575
Prefunded build completed prior to gazettal of the							
Amendment under DCP Condition							\$1,265,000
							4 · , = 00 , 000
Total to be included in DCP1							\$6,151,575
							+-,,
	Project Overheads and Preliminaries (Indirect Construction Costs) Project Owner's Cost (Planning and Design Costs) Risk Contingency Allowance TOTAL Preliminaries and Project Costs TOTAL Utilitities Estimated Imported Fill Total m3 of Cut to Fill - General Earthworks Less Cut to Filll costed Total Adjustment for Imported Fill (Iess Cut to Fill) TOTAL Road – Tinspar Avenue Prefunded build completed prior to gazettal of the Amendment under DCP Condition	Project Overheads and Preliminaries (Indirect Construction Costs) Project Owner's Cost (Planning and Design Costs) Risk Contingency Allowance TOTAL Preliminaries and Project Costs TOTAL Utilitities Estimated Imported Fill Total m3 of Cut to Fill - General Earthworks Less Cut to Filll costed Total Adjustment for Imported Fill (less Cut to Fill) TOTAL Road – Tinspar Avenue Prefunded build completed prior to gazettal of the Amendment under DCP Condition	Project Overheads and Preliminaries (Indirect Construction Costs) Project Owner's Cost (Planning and Design Costs) Risk Contingency Allowance TOTAL Preliminaries and Project Costs TOTAL Utilitities Estimated Imported Fill Rost Cut to Fill - General Earthworks Less Cut to Fill costed TOTAL Adjustment for Imported Fill (Iess Cut to Fill) TOTAL Road – Tinspar Avenue Prefunded build completed prior to gazettal of the Amendment under DCP Condition	Project Overheads and Preliminaries (Indirect Construction Costs) Project Owner's Cost (Planning and Design Costs) Risk Contingency Allowance TOTAL Preliminaries and Project Costs TOTAL Utilitities Estimated Imported Fill Total m3 of Cut to Fill - General Earthworks Less Cut to Fill costed TOTAL Road – Tinspar Avenue Prefunded build completed prior to gazettal of the Amendment under DCP Condition 15.0000 % \$149,068 \$149,068 \$10.0000 % \$149,068 \$186,335 Toul 10.0000 % \$186,335 Item Toul 10.0000 % \$186,335 Item See "Imported Fill" sheet at the	Project Overheads and Preliminaries (Indirect Construction Costs) Project Owner's Cost (Planning and Design Costs) Risk Contingency Allowance TOTAL Preliminaries and Project Costs TOTAL Utilitities Estimated Imported Fill Total m3 of Cut to Fill - General Earthworks Less Cut to Fill costed TOTAL Road – Tinspar Avenue Prefunded build completed prior to gazettal of the Amendment under DCP Condition 15.0000 % \$149,068 \$7,453 \$10.0000 % \$149,068 \$7,453 \$110.0000 % \$186,335 \$18,633	Project Overheads and Preliminaries (Indirect Construction Costs) Project Owner's Cost (Planning and Design Costs) Risk Contingency Allowance TOTAL Preliminaries and Project Costs TOTAL Utilitities Estimated Imported Fill Total M3 of Cut to Fill - General Earthworks Less Cut to Fill Costed TOTAL Adjustment for Imported Fill (less Cut to Fill) For Imported Fill See "Imported Fill" sheet at the end of these costings. TOTAL Road – Tinspar Avenue Prefunded build completed prior to gazettal of the Amendment under DCP Condition	Project Overheads and Preliminaries (Indirect Construction Costs) Project Owner's Cost (Planning and Design Costs) Risk Contingency Allowance TOTAL Preliminaries and Project Costs TOTAL Utilitities Estimated Imported Fill Total m3 of Cut to Fill - General Earthworks Less Cut to Fill costed TOTAL Road – Tinspar Avenue Prefunded build completed prior to gazettal of the Amendment under DCP Condition 15.0000 % \$149,068 \$22,360 % \$149,068 \$7,453 \$18,633 \$18,633 \$18,633 \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$



Code	Description	Quantity	UOM	Rate	Subtotal	Sub Section Total	Section Total	Road/ DOS Total
	DISTRICT OPEN SPACE – WHITBY HIGH SCHOOL							
G	DISTRICT SPORTING SPACE							
G.A	Siteworks & Earthworks							
G.A.A	Site Clearance (based on light shrubs)	46,000	m2	\$4		\$169,280		
G.A.B	Removal of topsoil 150mm and remove off-site	46,000	m2	\$2		\$77,234		
0.7.1.5	Tromoval of topool footim and fomovo on old	10,000		Ψ_		ψ11,201		
G.A.C	Cut to Fill - General Earthworks of 300mm across site	13,800	m3	\$8		\$113,471		
G.A.D	Levelling, grading and compaction to final design levels	46,000	m2	\$3		\$151,800		
G.A.E	Weed eradication	46,000	m2	\$1		\$26,910		
G.A.F	Excavation to 300 below finished levels	13,800	m2	\$14		\$190,440		
G.A.G	300 deep clean sand fill	13,800	m3	\$30		\$414,000		
G.A.H	Ggypsum soil conditioner	46,000	m2	\$2		\$77,740		
G.A.I	15 deep C-Wise Horticulture soil conditioner	46,000	m2	\$5		\$251,160		
G.A.J	100 thick imported turf sand	46,000	sqm	\$5		\$227,240		
G.A.K	Organic fertilizer to turf	46,000	sqm	\$1		\$53,820		
0.7 (TOTAL Siteworks & Earthworks	10,000	oqiii	Ψ,		φοσ,σ2σ	\$1,754,000	
G.B G.B.A	Grassing & Irrigation	46.000		#20		\$000 000		
	Supply and lay roll on turf including maintaining	46,000	sqm	\$20		\$920,000		
G.B.B	Irrigation	46,000	sqm	\$8		\$368,000		
0 - 0	Provisional sum allowance for pumps, bores and							
G.B.C	controls - no allowance for storage tank	1	Item	\$80,000		\$80,000		
	TOTAL Grassing & Irrigation						\$1,368,000	
G.C	<u>Landscaping & Equipment</u> Equipment							
	AFL goal posts (set of 8) including sleeves, footings,							
G.C.A	cages and post padding	1	no	\$7,406		\$7,406		
G.C.B	Timber Bollards @1200 spacing	188	no	\$121		\$22,748		
0.0.5	Timber Bollards @ 1200 Spacing	100	110	ΨΙΖΙ		ΨΖΖ,7 40		
G.C.C	Line marking to oval							
G.C.C.1	Allow 2 guys 1 day	16	hrs	\$100	\$1,600			
G.C.C.2	Equipment	1	no	\$1,000	\$1,000			
G.C.C.3	Profit				\$260			
	TOTAL Line marking to oval	710	m	\$4		\$2,860		
	Provisional Sums							
G.C.D	Provisional sum allowance for signage	1	item	\$5,000		\$5,000		
	TOTAL Landscaping & Equipment						\$39,000	
<u>G.D</u>	<u>Drainage</u>							
0.5.		4.0.10		04.15		# 406.5==		
G.D.A	150 diameter pipe including excavation and backfill	1,310	m	\$143		\$186,675	£407.000	
	TOTAL Drainage						\$187,000	
G.E	Preliminaries & Project Costs							
G.E.A	Traffic Management	0.0000	%	\$3,348,000		\$0		
0.2	Project Overheads and Preliminaries (Indirect	0.000	,,	φο,ο .ο,οοο		Ψ.		
G.E.B	Construction Costs)	10.0000	%	\$3,348,000		\$334,800		
	· ·							
G.E.C	Project Owner's Cost (Planning and Design Costs)	7.5000	%	\$3,348,000		\$251,100		
G.E.D	Risk Contingency Allowance	10.0000	%	\$3,933,900		\$393,390	1	
	TOTAL Preliminaries & Project Costs						\$980,000	
1	TOTAL District Open Space – Whitby High School							
1	District Sporting Space		Item					\$4,328,000
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Code	Description	Quantity	UOM	Rate	Subtotal	Sub Section Total	Section Total	Road/ DOS Total
u	DISTRICT OPEN SPACE – TAYLOR ROAD/ SCOTT ROAD PRIMARY SCHOOL NEIGHBOURHOOD OPEN SPACE							
Н <u>Н.А</u>	Siteworks & Earthworks							
H.A.A	Site Clearance (based on light shrubs)	46,000	m2	\$4		\$169,280		
H.A.B	Removal of topsoil 150mm and remove off-site	46,000	m2	\$2		\$77,234		
H.A.C	Cut to Fill - General Earthworks of 300mm across site	13,800	m3	\$8		\$113,471		
H.A.D	Levelling, grading and compaction to final design levels	46,000	m2	\$3		\$151,800		
H.A.E	Weed eradication	46,000	m2	\$1		\$26,910		
H.A.F	Excavation to 300 below finished levels	13,800	m2	\$14		\$190,440		
H.A.G	300 deep clean sand fill	13,800	m3	\$30		\$414,000		
H.A.H	Ggypsum soil conditioner	46,000	m2	\$2		\$77,740		
H.A.I	15 deep C-Wise Horticulture soil conditioner	46,000	m2	\$5		\$251,160		
H.A.J	100 thick imported turf sand	46,000	sqm	\$5		\$227,240		
H.A.K	Organic fertilizer to turf TOTAL Siteworks & Earthworks	46,000	sqm	\$1		\$53,820	\$1,754,000	
<u>H.B</u>	Grassing & Irrigation							
H.B.A	Supply and lay roll on turf including maintaining	46,000	sqm	\$20		\$920,000		
H.B.B	Irrigation	46,000	sqm	\$8		\$368,000		
	Provisional sum allowance for pumps, bores and							
H.B.C	controls - no allowance for storage tank	1	Item	\$80,000		\$80,000		
	TOTAL Grassing & Irrigation						\$1,368,000	
<u>н.с</u>	Landscaping & Equipment							
	Equipment							
	AFL goal posts (set of 8) including sleeves, footings,	4		#7.400		Φ 7 400		
H.C.A	cages and post padding	1	no	\$7,406		\$7,406		
H.C.B	Timber Bollards @1200 spacing	188	no	\$121		\$22,748		
H.C.C	Line marking to oval							
H.C.C.1	Allow 2 guys 1 day	16	hrs	\$100	\$1,600			
H.C.C.2	Equipment	1	no	\$1,000	\$1,000			
H.C.C.3	Profit				\$260			
	TOTAL Line marking to oval	710	m	\$4		\$2,860		
H.C.D						\$0		
H.C.E	Provisional Sums			4 5.000		\$0		
H.C.F	Provisional sum allowance for signage	1	item	\$5,000		\$5,000		
	TOTAL Landscaping & Equipment						\$39,000	
<u>H.D</u>	<u>Drainage</u>							
H.D.A	150 diameter pipe including excavation and backfill	1,310	m	\$143		\$186,675	****	
	TOTAL Drainage						\$187,000	
<u>H.E</u>	Preliminaries & Project Costs							
H.E.A	Traffic Management	0.0000	%	\$3,348,000		\$0		
	Project Overheads and Preliminaries (Indirect							
H.E.B	Construction Costs)	10.0000	%	\$3,348,000		\$334,800		
H.E.C	Project Owner's Cost (Planning and Design Costs)	7.5000	%	\$3,348,000		\$251,100		
H.E.D	Risk Contingency Allowance	10.0000	%	\$3,933,900		\$393,390		
	TOTAL Preliminaries & Project Costs	10.0000	,,,	ψο,σοσ,σοσ		ψ000,000	\$980,000	
	TOTAL District Once Success Total Success 20							
	TOTAL District Open Space – Taylor Road/ Scott Road Primary School Neighbourhood Open Space		Item					\$4,328,000
	The state of the s							Ţ.,J 2 0,000
				-	ii			

Costs undertaken internally by Shire Personnel - to be updated by external QS on final design.

\$ 3,007,693

KIERNAN PARK MASTERPLAN SCENARIOS INDIC			RIO 1A			
Item	Description	Quantity	Unit	Rate (\$)	Total (\$)	
1.00	BUILDINGS					
1.01	Allowance for Recreation Centre		Note		Excluded	
1.02	Allowance for Hockey/Soccer/Rugby Pavillion		Note		Excluded	
1.03	Allowance for Baseball/Softball Pavillion		Note		Excluded	
1.04	Allowance for Soccer Change Rooms		Note		Excluded	
1.05	Allowance for AFL / Cricket Pavillion		m2		-	
1.06	Allowance for Athletics Pavillion		Note		Excluded	
1.07	Allowance for BMX Grandstand (basic tiered mound with shade cover)		Note		Excluded	
1.08	Allowance for BMX Pavillion		Note		Excluded	
	TOTAL BUILDING COST		-		-	
2.00	External Works & Landscaping					
2.01	Allowance for Site Clearance		m2		-	
2.02	Allowance for demolition of buildings / structures		Note		Not Applicable	
2.03	Allowance for demolition / removal of hardstandings		Note		Not Applicable	
2.04	Allowance for general cut to fill		m3		-	
2.05	Allowance for imported fill material		m3		-	
2.06	Allowance for removal of unsuitable cut		Note		Excluded	
2.07	Allowance for formation of batters including fabric cover		m2		- Exolution	
2.08	Allowance for retaining walls		Note		Excluded	
2.00					LXCIdded	
2.09	Allowance for temporary battering / retaining to suit staging (no detailts)		P.Sum		-	
2.10	Allowance for sub soil drainage		Note		Excluded	
2.11	Allowance for ground remediation		Note		Excluded	
2.12	Allowance for car parking complete		m2		-	
2.13	Allowance for roads complete		m2		-	
2.14	Allowance for cross overs complete		No		-	
2.15	Allowance for bridge structures		No		-	
2.16	Allowance for outdoor 50m pool and surrounds		Note		Excluded	
2.17	Allowance for leisure pool		Note		Excluded	
	·		Note		Excluded	
			Note		Excluded	
2.20	Allowance for Soccer Pitches - Grass		Note		Excluded	
2.21	Allowance for Hockey Pitches - Grass		Note		Excluded	
2.22	Allowance for Hockey Pitches - Synthetic		Note		Excluded	
	• •		Note		Excluded	
2.23	3 ,					
2.24	Allowance for Baseball Diamonds - Grass		Note		Excluded	
2.25	Allowance for Baseball pitch - Grass	20,000	Note	00	Included	
2.26	,	32,000	m2	93	2,976,432	
2.27	Extra over Soft Landscaping Allowance for Athletics Track - Grass includin infill	9	Note	-	Excluded	
2.28	Allowance for general grassed areas between playing surfaces (halved for	1 26,600		50	1,319,552	
	oval - see Stage 2)	20,000		30	1,519,552	
2.29			No		-	
2.30			No		-	
2.31	Allowance for Bowls - Grass / Lawn		Note		Excluded	
2.32	Allowance for BMX Track		Note		Excluded	
2.33	Allowance for Pump Track		Note		Excluded	
2.34	Allowance for BMW Shade Structures		Note		Excluded	
2.35	Allowance for fencing to BMX		Note		Excluded	
2.36	Allowance for Mountain Bike Trail		Note		Excluded	
2.37	Allowance for works to shrub areas		Note		Excluded	
2.38	Allowance for works to stream		Sum		-	
2.39	Allowance for formation of water treatment pond		Note		Excluded	
2.40	E.O Allowance for feauture lagoon to above				Excluded	
2.41	Allowance for hard landscaping / pavements generally (20% balance of site	•	P.Sum			
۷.4۱	area)		i .Guili		-	
2.42	Allowance for soft landscaping / shrubs generally (40% balance of site area	n)	P.Sum		-	
			-	•		

2.44			0		
0.45	Allowance for playground / equipment		Sum		-
2.45	Allowance for shelters etc		Sum		-
	Allowance for fitments; bins, seats, furniture		Sum		-
2.47	Allowance for stepped seating				
2.48	Allowance for signage		Sum		- Furthered
	Allowance for site fencing	00/	Note	0.40,070	Excluded
2.50	Allowance for Main Contractors Preliminaries and Margin	8%	Sum	343,679	Excluded
0.00	External Works & Landscaping Sub Total				4,295,984
3.00	Site Services				
3.01 3.02	Allowance for common service trench to each building Allowance for services infrastructure to Recreation Centre		M		- Evaludad
3.02			Note		Excluded
3.03	Allowance for services infrastructure to Hockey/Soccer/Rugby Pavillion		Note		Excluded
3.04	Allowance for services infrastructure to Baseball/Softball Pavillion		Note		Excluded
3.05	Allowance for services infrastructure to Soccer Change Rooms		Note		Excluded
3.06	Allowance for services infrastructure to AFL / Cricket Pavillion		P.Sum		-
3.07	Allowance for services infrastructure to Athletics Pavillion		Note		Excluded
3.08	Allowance for services infrastructure to BMX Pavillion		Note		Excluded
3.09	Allowance for lighting to car parks; 1 light per 400sqm		P.Sum		-
3.10	Allowance for lighting to roads; 1 light per 400sqm		P.Sum		-
3.11	Allowance for sports lighting to Tennis		Note		Excluded
3.12	Allowance for sports lighting to Netball		Note		Excluded
3.13	Allowance for sports lighting to Soccer		Note		Excluded
3.14	Allowance for sports lighting to Hockey		Note		Excluded
3.15	Allowance for sports lighting to Rugby		Note		Excluded
3.16	Allowance for sports lighting to Baseball / softball		Note		Excluded
3.17	Allowance for sports lighting to AFL		P.Sum		- Fredridad
3.18 3.19	Allowance for sports lighting to Athletic Track Allowance for sports lighting to Lawn Bowls		Note Note		Excluded Excluded
3.19	Allowance for sport lighting to BMX and Pump Track		Note		Excluded
	Allowance for general CCTV coverage		P.Sum		Lxcidded
	Allowance for Main Contractors Preliminaries and Margin	8%	Sum	_	Excluded
0.22	External Services Sub Total	070	Odili		Excidaca
	External dervices dub rotal		-		
	TOTAL CONSTRUCTION COSTS		-		4,295,984
	TOTAL CONSTRUCTION COSTS		-		4,295,984
4.01	TOTAL CONSTRUCTION COSTS Design Contingencies		-		4,295,984 -
4.01 4.02	TOTAL CONSTRUCTION COSTS Design Contingencies Construction Contingencies		P.Sum		4,295,984 - -
4.01 4.02 4.03	TOTAL CONSTRUCTION COSTS Design Contingencies		P.Sum		- 4,295,984 - - - Excluded
4.01 4.02 4.03 4.04	TOTAL CONSTRUCTION COSTS Design Contingencies Construction Contingencies Headworks and Statutory Charges				-
4.01 4.02 4.03 4.04 4.05	TOTAL CONSTRUCTION COSTS Design Contingencies Construction Contingencies Headworks and Statutory Charges Building Act Compliance				-
4.01 4.02 4.03 4.04 4.05 4.06	TOTAL CONSTRUCTION COSTS Design Contingencies Construction Contingencies Headworks and Statutory Charges Building Act Compliance Percent for Public Art		Note		- - Excluded -
4.01 4.02 4.03 4.04 4.05 4.06 4.07	Design Contingencies Construction Contingencies Headworks and Statutory Charges Building Act Compliance Percent for Public Art Land Costs (if applicable)		Note Note		Excluded Excluded
4.01 4.02 4.03 4.04 4.05 4.06 4.07 4.08	Design Contingencies Construction Contingencies Headworks and Statutory Charges Building Act Compliance Percent for Public Art Land Costs (if applicable) Other Costs - FFE		Note Note Note		Excluded Excluded Excluded Excluded
4.01 4.02 4.03 4.04 4.05 4.06 4.07 4.08	Design Contingencies Construction Contingencies Headworks and Statutory Charges Building Act Compliance Percent for Public Art Land Costs (if applicable) Other Costs - FFE Other Costs - ICT		Note Note Note		Excluded Excluded Excluded Excluded
4.01 4.02 4.03 4.04 4.05 4.06 4.07 4.08	Design Contingencies Construction Contingencies Headworks and Statutory Charges Building Act Compliance Percent for Public Art Land Costs (if applicable) Other Costs - FFE Other Costs - ICT Professional Fees		Note Note Note		Excluded Excluded Excluded Excluded
4.01 4.02 4.03 4.04 4.05 4.06 4.07 4.08	Design Contingencies Construction Contingencies Headworks and Statutory Charges Building Act Compliance Percent for Public Art Land Costs (if applicable) Other Costs - FFE Other Costs - ICT Professional Fees On-Costs - Sub Total		Note Note Note Note Note		Excluded Excluded Excluded Excluded Excluded
4.01 4.02 4.03 4.04 4.05 4.06 4.07 4.08 4.09	Design Contingencies Construction Contingencies Headworks and Statutory Charges Building Act Compliance Percent for Public Art Land Costs (if applicable) Other Costs - FFE Other Costs - ICT Professional Fees On-Costs - Sub Total GROSS PROJECT COST	177.00	Note Note Note Note Note		Excluded Excluded Excluded Excluded Excluded
4.01 4.02 4.03 4.04 4.05 4.06 4.07 4.08 4.09	Design Contingencies Construction Contingencies Headworks and Statutory Charges Building Act Compliance Percent for Public Art Land Costs (if applicable) Other Costs - FFE Other Costs - ICT Professional Fees On-Costs - Sub Total GROSS PROJECT COST Escalation	177.00	Note Note Note Note Note		Excluded Excluded Excluded Excluded Excluded
4.01 4.02 4.03 4.04 4.05 4.06 4.07 4.08 4.09	Design Contingencies Construction Contingencies Headworks and Statutory Charges Building Act Compliance Percent for Public Art Land Costs (if applicable) Other Costs - FFE Other Costs - ICT Professional Fees On-Costs - Sub Total GROSS PROJECT COST Escalation Base date of pricing - September 2020	177.00	Note Note Note Note Note		Excluded Excluded Excluded Excluded Excluded Excluded 4,295,984
4.01 4.02 4.03 4.04 4.05 4.06 4.07 4.08 4.09 5.00 5.01 5.02	Design Contingencies Construction Contingencies Headworks and Statutory Charges Building Act Compliance Percent for Public Art Land Costs (if applicable) Other Costs - FFE Other Costs - ICT Professional Fees On-Costs - Sub Total GROSS PROJECT COST Escalation Base date of pricing - September 2020 Escalation to Start of Construction	177.00	Note Note Note Note Note		Excluded Excluded Excluded Excluded Excluded Excluded 4,295,984
4.01 4.02 4.03 4.04 4.05 4.06 4.07 4.08 4.09 5.00 5.01 5.02	Design Contingencies Construction Contingencies Headworks and Statutory Charges Building Act Compliance Percent for Public Art Land Costs (if applicable) Other Costs - FFE Other Costs - ICT Professional Fees On-Costs - Sub Total GROSS PROJECT COST Escalation Base date of pricing - September 2020 Escalation - Sub Total	177.00	Note Note Note Note Note		Excluded Excluded Excluded Excluded Excluded Excluded Excluded - 4,295,984 Excluded
4.01 4.02 4.03 4.04 4.05 4.06 4.07 4.08 4.09 5.00 5.01 5.02	Design Contingencies Construction Contingencies Headworks and Statutory Charges Building Act Compliance Percent for Public Art Land Costs (if applicable) Other Costs - FFE Other Costs - ICT Professional Fees On-Costs - Sub Total GROSS PROJECT COST Escalation Base date of pricing - September 2020 Escalation - Sub Total ESCALATED NET PROJECT COST	177.00	Note Note Note Note Note		Excluded Excluded Excluded Excluded Excluded Excluded Excluded - 4,295,984 Excluded
4.01 4.02 4.03 4.04 4.05 4.06 4.07 4.08 4.09 5.00 5.01 5.02	Design Contingencies Construction Contingencies Headworks and Statutory Charges Building Act Compliance Percent for Public Art Land Costs (if applicable) Other Costs - FFE Other Costs - ICT Professional Fees On-Costs - Sub Total GROSS PROJECT COST Escalation Base date of pricing - September 2020 Escalation - Sub Total ESCALATED NET PROJECT COST Local Authority Managed Costs	177.00	Note Note Note Note -		Excluded Excluded Excluded Excluded Excluded Excluded 4,295,984 Excluded
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4.01 4.02 4.03 4.04 4.05 4.06 4.07 4.08 4.09 5.00 5.01 5.02 6.00 6.01 6.02 6.03 6.04	Design Contingencies Construction Contingencies Headworks and Statutory Charges Building Act Compliance Percent for Public Art Land Costs (if applicable) Other Costs - FFE Other Costs - ICT Professional Fees On-Costs - Sub Total GROSS PROJECT COST Escalation Base date of pricing - September 2020 Escalation to Start of Construction Escalation - Sub Total ESCALATED NET PROJECT COST Local Authority Managed Costs Special Client Agency Provisions Project Director / Professional Fees Administration Fees Commissioning, Relocation Costs and Disbursements	177.00	Note Note Note Note Note Note Note Note		Excluded Excluded Excluded Excluded Excluded Excluded Excluded - 4,295,984 Excluded Excluded Excluded Excluded Excluded Excluded Excluded Excluded Excluded
4.01 4.02 4.03 4.04 4.05 4.06 4.07 4.08 4.09 5.00 5.01 5.02 6.00 6.01 6.02 6.03 6.04 6.05	Design Contingencies Construction Contingencies Headworks and Statutory Charges Building Act Compliance Percent for Public Art Land Costs (if applicable) Other Costs - FFE Other Costs - ICT Professional Fees On-Costs - Sub Total GROSS PROJECT COST Escalation Base date of pricing - September 2020 Escalation to Start of Construction Escalation - Sub Total ESCALATED NET PROJECT COST Local Authority Managed Costs Special Client Agency Provisions Project Director / Professional Fees Commissioning, Relocation Costs and Disbursements Land Acquisition & Native Title Compensation (if applicable)	177.00	Note Note Note Note Note Note Note Note		Excluded Excluded Excluded Excluded Excluded Excluded 4,295,984 Excluded Excluded Excluded Excluded Excluded Excluded Excluded Excluded Excluded Excluded Excluded
4.01 4.02 4.03 4.04 4.05 4.06 4.07 4.08 4.09 5.00 5.01 5.02 6.00 6.01 6.02 6.03 6.04 6.05 6.06	Design Contingencies Construction Contingencies Headworks and Statutory Charges Building Act Compliance Percent for Public Art Land Costs (if applicable) Other Costs - FFE Other Costs - ICT Professional Fees On-Costs - Sub Total GROSS PROJECT COST Escalation Base date of pricing - September 2020 Escalation to Start of Construction Escalation - Sub Total ESCALATED NET PROJECT COST Local Authority Managed Costs Special Client Agency Provisions Project Director / Professional Fees Administration Fees Commissioning, Relocation Costs and Disbursements Land Acquisition & Native Title Compensation (if applicable) Loose Furniture and Equipment	177.00	Note Note Note Note Note Note Note Note		Excluded Excluded Excluded Excluded Excluded Excluded Excluded - 4,295,984 Excluded Excluded Excluded Excluded Excluded Excluded Excluded Excluded Excluded Excluded Excluded Excluded
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4.01 4.02 4.03 4.04 4.05 4.06 4.07 4.08 4.09 5.00 5.01 5.02 6.00 6.01 6.02 6.03 6.04 6.05 6.06 6.07 6.08	Design Contingencies Construction Contingencies Headworks and Statutory Charges Building Act Compliance Percent for Public Art Land Costs (if applicable) Other Costs - FFE Other Costs - ICT Professional Fees On-Costs - Sub Total GROSS PROJECT COST Escalation Base date of pricing - September 2020 Escalation to Start of Construction Escalation - Sub Total ESCALATED NET PROJECT COST Local Authority Managed Costs Special Client Agency Provisions Project Director / Professional Fees Commissioning, Relocation Costs and Disbursements Land Acquisition & Native Title Compensation (if applicable) Loose Furniture and Equipment Computing Equipment and Services Site Master Planning Other Provisions	177.00	Note Note		Excluded Excluded Excluded Excluded Excluded Excluded Excluded - 4,295,984 Excluded
4.01 4.02 4.03 4.04 4.05 4.06 4.07 4.08 4.09 5.00 5.01 5.02 6.00 6.01 6.02 6.03 6.04 6.05 6.06 6.07 6.08 6.09	Design Contingencies Construction Contingencies Headworks and Statutory Charges Building Act Compliance Percent for Public Art Land Costs (if applicable) Other Costs - FFE Other Costs - ICT Professional Fees On-Costs - Sub Total GROSS PROJECT COST Escalation Base date of pricing - September 2020 Escalation to Start of Construction Escalation - Sub Total ESCALATED NET PROJECT COST Local Authority Managed Costs Special Client Agency Provisions Project Director / Professional Fees Administration Fees Commissioning, Relocation Costs and Disbursements Land Acquisition & Native Title Compensation (if applicable) Loose Furniture and Equipment Computing Equipment and Services Site Master Planning Other Provisions Total Local Authority Costs	177.00	Note Note		Excluded Excluded Excluded Excluded Excluded Excluded Excluded 4,295,984 Excluded Excluded Excluded Excluded Excluded Excluded Excluded Excluded Excluded Excluded Excluded Excluded Excluded Excluded Excluded Excluded Excluded

DCP Roads - Imported Fill inputs		Average fill depth required before topsoil removal (mm)	Topsoil removal (mm)	Total Sand depth reqd (mm)	Length	Width	Vol	Total m3	Notes
	Bishop Road East	150	150	300	1500	15	0.3		Existing carriageway to be upgraded, no fill required, pavement to be upgraded. Full length new carriageway 150mm fill required
	District Fredu East	100	130	300	1500	13	0.0	,	Existing carriageway to be upgraded, no fill required, pavement to be upgraded. Full length new
	Taylor Road	150	150	300	1530	15	0.3		carriageway 150mm fill required
DCA3	Town Centre Distributor Road (Whitby New Road)	150	150	300	3545	30	0.3	31,905.0	150mm fill required to lift full length
	North South Road	150	150	300	1340	30	0.3	12,060.0	150mm fill required to lift full length
	Skyline Boulevard	150	150	300	352	25	0.3	2,640.0	150mm fill required to lift full length
	Tinspar Avenue	150	150	300	1162	25	0.3	8,715.0	150mm fill required to lift full length