### **MINUTES**

# WORKS AND URBAN DEVELOPMENT COMMITTEE

1 MARCH 2016

APPROVED FOR RELEASE

MARTIN MILEHAM
CHIEF EXECUTIVE OFFICER



### **MINUTES**

# WORKS AND URBAN DEVELOPMENT COMMITTEE

1 MARCH 2016

THESE MINUTES ARE HEREBY CERTIFIED AS CONFIRMED

PRESIDING MEMBER'S

SIGNATURE

DATE: 22/3/16

# WORKS AND URBAN DEVELOPMENT COMMITTEE INDEX

Item	Description	Page
WK25/16	DECLARATION OF OPENING	1
WK26/16	APOLOGIES AND MEMBERS ON LEAVE OF ABSENCE	1
WK27/16	QUESTION TIME FOR THE PUBLIC	1
WK28/16	CONFIRMATION OF MINUTES	2
WK29/16	CORRESPONDENCE	2
WK30/16	DISCLOSURE OF MEMBERS' INTERESTS	2
WK31/16	WELLINGTON STREET ENHANCEMENT – WORKS, STAGE 2B	2
WK32/16	NORTHBRIDGE PIAZZA – SCREENING WALL ENHANCEMENT	7
WK33/16	IMPACT ON RESIDENTIAL AMENITY DUE TO RECREATIONAL ACTIVITES IN MOUNT STREET, CLIFF STREET, BELLEVUE TERRACE AND JACOB'S LADDER	11
WK34/16	MOTIONS OF WHICH PREVIOUS NOTICE HAS BEEN GIVEN	17
WK35/16	GENERAL BUSINESS	17
WK36/16	ITEMS FOR CONSIDERATION AT A FUTURE MEETING	18
WK37/16	CLOSE OF MEETING	18

Minutes of the meeting of the City of Perth Works and Urban Development Committee held in Committee Room 1, Ninth Floor, Council House, 27 St Georges Terrace, Perth on Tuesday, 1 March 2016.

### **MEMBERS IN ATTENDANCE**

Cr Limnios - Presiding Member

The Lord Mayor Cr McEvoy

### **OFFICERS**

Mr Mileham - Chief Executive Officer

Mr Crosetta - Director Construction and Maintenance Mr Farley - Acting Director Planning and Development

Ms Barrenger - Manager Coordination and Design

Mr Ridgwell - Manager Governance

Mr Sriranjan - Interim Manager Construction (departed the meeting at

5.33pm)

Ms Best - Governance Officer

### **GUESTS AND DEPUTATIONS**

Nil

### **OBSERVERS**

Cr Davidson

### WK25/16 DECLARATION OF OPENING

**5.30pm** The Presiding Member declared the meeting open.

WK26/16 APOLOGIES AND MEMBERS ON LEAVE OF ABSENCE

Nil

WK27/16 QUESTION TIME FOR THE PUBLIC

Nil

### **CONFIRMATION OF MINUTES** WK28/16

Moved by Cr McEvoy, seconded by The Lord Mayor

That the minutes of the meeting of the Works and Urban Development Committee held on 9 February 2016 be confirmed as a true and correct record.

The motion was put and carried

The votes were recorded as follows:

Cr Limnios, The Lord Mayor and Cr McEvoy For:

Against: Nil

The Interim Manager Construction departed the meeting and did not 5.33pm

return.

WK29/16 CORRESPONDENCE

Nil

**DISCLOSURE OF MEMBERS' INTERESTS** WK30/16

Nil

WELLINGTON STREET ENHANCEMENT - WORKS, WK31/16

STAGE 2B

### **BACKGROUND:**

P1028418 FILE REFERENCE: Construction REPORTING UNIT:

Construction and Maintenance RESPONSIBLE DIRECTORATE:

DATE: 12 February 2016

Schedule 1 – Extent of works in Wellington Street MAP / SCHEDULE:

Schedule 2 – MRA Offer

Schedule 3 – Quantity Surveyor Estimate

On 26 June 2008, the City of Perth and the State Government signed the Link Project Implementation Deed that provided the framework for funding and implementing various works associated with lowering the railway, west of the

Horseshoe Bridge. A key aspect of this agreement is the City funding enhancement works to Wellington Street, as follows:

- Stage 1 (between Elder and Little Milligan Street)
- Stage 2 (between Little Milligan and William Street)

Stage 1 was completed within budget and six months ahead of schedule. Since June 2012, the City's Project Team has been working closely with the Metropolitan Redevelopment Authority (MRA) and various state government agencies in developing detailed plans for the remainder for Wellington Street, in particular, Stage 2 between Little Milligan Street and William Street.

In order to support future development within the Perth City Link (PCL) project, the MRA is required to undertake major scheme service infrastructure upgrades. The first stage of these infrastructure upgrades along Wellington Street (Stage 2A), between Milligan and King Streets, was completed in December 2014. Major services installed as part of these works include power, gas, sewer, stormwater drainage and telecommunications.

In June 2014, the Council accepted an offer from the MRA to construct the Phase 1 of Stage 2A – essentially, the granite paved areas on the north side of Wellington Street, representing the interface between the private and public realm. Phase 1 was successfully completed within budget and program. The 51 metre long section of the footpath in front of sites KS1 and KS2 was approved in 2015 and the outcome has been similarly successful.

Scheme service installation works by MRA are required for the remainder of Wellington Street (Stage 2B, between Prince Lane and William Street). The City of Perth is also required to deliver streetscape upgrade works (barring the Yagan Square frontage) along Wellington Street as part of its commitment to the Perth City Link project. Yagan Square frontage is an extension of this project and will be executed by MRA as part of the PCL works, paid for by the City from the Stage 2B budget. The streetscape works are programmed to be undertaken upon completion of each of the MRA's staged scheme service installation works.

The Stage 2B Wellington Street scheme service works were originally programmed to commence late in 2016 following completion of the underground Busport by the Public Transport Authority (PTA). With the introduction of the Wellington Street Entrance Tunnel, opportunities were investigated to advance and align the Stage 2B Western Power infrastructure works to occur concurrently with the tunnel works.

This was based on achieving operational, programming and cost efficiencies, in particular reducing the overall duration of works in Wellington Street to minimise impact on the public.

The City subsequently received from the MRA an estimated price to complete the service installation and granite paving works to the balance of the northern footpath and carriageway of Wellington Street, from Prince Lane to Williams Street

intersection. Originally planned to be constructed by the City, this work would not have commenced until mid-financial year (FY) 2016/17. An opportunity now exists to start the works in May 2016.

### **LEGISLATION / STRATEGIC PLAN / POLICY:**

Integrated Planning and Reporting Framework

**Corporate Business Plan** 

Council Four Year Priorities: Major Strategic Investments S1 Ensure that major developments effectively

integrate into the City with minimal disruption and

risk

### **DETAILS:**

**Implications** 

### **Design Details**

Detailed design was completed by City Design Unit (CDU) and Plan E in 2014, with detail documentation being completed this year. The design is based on the previously approved masterplan with construction details, materials and quality consistent with Stage 1 and 2A Works (from the front of Perth Arena through to Prince Lane, Northern side). The 'palette' of streetscape elements for the Stage 2 works includes:

- new granite kerbing to all footpaths;
- new granite paving on concrete base;
- new 'low speed' bi-directional cycle path;
- new Northern carriageway road surface;
- new street furniture;
- new street tree planting.

All services will be installed simultaneously with those required by the MRA developments. The works form part of a continuous street frontage between the start of the Public Footpath to the kerb, including the Northern carriageway finish and the median as indicated on the attached plan. It is noted that the median island at that section will also be constructed by the MRA, with PTA funding.

### **Overall Project Sequencing**

The sequencing of all works in Wellington Street as part of the Link Agreement indicates that Stage 2B Northern section, east of Prince Lane, is currently programmed to be constructed from May 2016 through to completion during FY2016/17. Despite works commencing this financial year, payment to the MRA is due at the end of the project, in FY2016/17.

### **Proposed Reprogramming**

The potential benefits of bringing this section of the works forward to be included with the MRA scheme services works schedule are considered to include:

### 1. Traffic Management

COMMITTEE

Perth traffic has readjusted to the works in Wellington Street and it would be advantageous to retain the current systems and expertise to assist with the streetscape works on the north side.

### 2. Timing

Works would be completed on the north side by mid-FY 2016/17. The time taken for project completion is expected to be less, due to the lack of multiple contractors on site simultaneously. This would bring practical completion forward by approximately six months from the current programme.

Start of works to the southern side and median strip in Wellington Street would be expedited.

### 3. Reduced Costs

There are potential reduced costs in the region of \$370,000 in constructing the north side of the works by the MRA which has contractors already mobilised, specifically due to escalation, traffic management, project management fees and synergies of combined works.

### 4. Public Safety

Access and egress to Wellington Street and the Bus Port will be secured for pedestrians and cyclists sooner.

### 5. Risk Mitigation

Construction risks will be carried by MRA as part of their works.

Contractor responsibility, speed of construction and safety are risk to be borne by the City of Perth should MRA and the City of Perth works occur concurrently.

### FINANCIAL IMPLICATIONS:

ACCOUNT NO: CW1801

BUDGET ITEM: Wellington Street – Stage 2B:

Prince Lane to William Street -

Streetscape Enhancement

BUDGET PAGE NUMBER: 17

BUDGETED AMOUNT FY 2015/16: \$ 250,000
PROPOSED BUDGET AMOUNT FY 2016/17: \$4,000,000
FY2016/17 - ROLLOVER FROM CW 1113 \$ 100,000
FY2016/17 - ROLLOVER FROM CW 1781 \$ 42,000
FY2016/17 - ROLLOVER FROM CW1646 \$ 189,000
PROPOSED BUDGET AMOUNT FY2017/18: \$2,000,000

AMOUNT SPENT TO DATE: \$ 75,365 BALANCE: \$6,505,635 TOTAL PROPOSED COST: \$2,660,000 (being MRA's

preliminary estimate, plus City of

Perth costs) \$3,845,635

BALANCE - COP WORKS AND COSTS:

The current budget in FY2015/16 (CW 1801) will require a carry forward of unspent capital funding, estimated at \$110,000, into 2016/17.

All figures quoted in this report are exclusive of GST.

### Cost Plan for Phase 2B Northern side

The project team has received a preliminary estimate of \$2,560,000 (excluding City of Perth costs) from the MRA (Schedule 2) for construction of Phase 2B Northern side based on the detailed documentation prepared. The City subsequently engaged an independent Quantity Surveyor to prepare a cost estimate (Schedule 3) based on the same documentation in order to assist with assessment of the MRA estimate. This indicated a cost of \$3,022,000, excluding some COP expenses.

The offer from the MRA indicated that the costs to the City are less than first envisioned. Additional costs associated with the City constructing the works late in 2016/17, re-establishing traffic management, contractor re-mobilisation and temporary lighting would be in the order of \$362,000.

### Stage 2B (Prince Lane to William Street)

Wellington Street Stage 2B has a total current budget of \$6,250,000 and work is scheduled for FY 2016/17/18. Additionally, \$331,000 relating to savings from the Stage 2A works, will be included in the budget.

### **COMMENTS:**

Under an agreement with the State Government regarding the implementation of the City Link Project, the City of Perth is responsible for specific service and enhancement works to Wellington Street, within a limited program.

The City has an opportunity to implement the balance of the Northern side works to Wellington Street ahead of schedule with reduced risk and substantial cost benefits by accepting the offer from the MRA.

Additionally, this proposal brings benefits of pedestrian and cyclist safety, with less disruption due to traffic management changes in Wellington Street.

### Moved by The Lord Mayor, seconded by Cr McEvoy

### That Council:

- 1. approves to accept an offer and preliminary estimate from the Metropolitan Redevelopment Authority (MRA) to undertake the works representing a new contract between the City of Perth and the MRA to build the granite footpath and associated works on the north side of Wellington Street, between Prince Lane and William Street for \$2,560,000 (excluding GST);
- 2. authorises the Chief Executive Officer to negotiate and enter into an agreement with the MRA to execute the works above, based on their letter dated 23 December 2015.

The motion was put and carried

The votes were recorded as follows:

For: Cr Limnios, The Lord Mayor and Cr McEvoy

Against: Nil

WK32/16 NORTHBRIDGE PIAZZA – SCREENING WALL ENHANCEMENT

### **BACKGROUND:**

As part of the Northbridge Piazza development (2008), a free-standing screening wall to support planting was constructed on the eastern boundary of the site, with the intent:

- to provide a soft edge in a challenging environment;
- to screen the adjacent building until such time as it is redeveloped; and
- to improve the definition and scale of the public square (as the existing building at this edge is of low scale).

A report on the screening wall, its presentation and on-going maintenance practices was provided to Council on the **18 March 2014**. It was advised that site conditions, water restrictions and vandalism have limited plant growth in the screen.

On 10 February 2015, the Works and Urban Development Committee requested that options be provided for interventions to enhance the wall.

FILE REFERENCE: P1020971

REPORTING UNIT: Co-ordination & Design RESPONSIBLE DIRECTORATE: Planning & Development

DATE: 09 February 2016

MAP / SCHEDULE: Schedule 4 - Illustration & Cost Estimate

### **LEGISLATION / STRATEGIC PLAN / POLICY:**

Integrated Planning and Reporting Framework

Corporate Business Plan Council Four Year Priorities:

Framework S16 Implications

Increase accessibility to green networks in the city

Strategic Community Plan

Council Four Year Priorities: Healthy and Active in Perth A city with a well-integrated built and green natural

environment in which people and families choose a lifestyle that enhances their physical and mental health and take part

in arts, cultural and local community events.

### **DETAILS:**

### **Existing Site Conditions & Constraints**

Plant growth on the Northbridge Piazza screening wall is limited by:

- a westerly aspect exposing the plants to the extreme summer heat and burning of foliage;
- irrigation restrictions of two days per week during summer and a total sprinkler ban in the winter months;
- containers near ground level being subject to regular vandalism; and
- high evaporation rate due to radiant heat of the surrounding hardscape.

The Marketing and Events Unit has fixed shade cloth panels to the screen to facilitate artistic digital projections during seasonal events. It is recommended that this function continue, however it is proposed that the individual panels are replaced with a large single screen which can be installed temporarily for events and removed when not in use.

Noting the above, the following options were explored to enhance the existing wall:

### Option 1: Retain current planting but increase soil volume

The Bougainvillea currently growing in containers within the screen wall have generally grown well albeit slowly and still have some way to go before they reach their full growth potential. To promote better growth, the plastic planters contained

within the stainless steel planter boxes could be exchanged for slightly larger custom made pots to increase the soil volume available to the plants. Selecting this option accepts that in time the Bougainvillea will grow to cover the screen and no further intervention is required.

### **Option 2: Vertical Garden**

This option proposes a modular vertical garden system be fixed to the existing screen panels without planter boxes.

To provide optimal conditions for success, the vertical garden will be implemented with the following features:

- West Australian / Australian native species suited to full-sun exposure, e.g. Eremophila glabra, Ficinia nodosa;
- high quality soil media with wetting agents;
- water retention mats:
- an efficient drip irrigation system; and
- specialised maintenance by an experienced contractor, with replacement plants grown off-site ready to replace any failing plants.

In addition, the existing plants in planter boxes will be replaced with another species which will be trained to trail down the mesh box and is expected to provide better overall plant coverage.

While there has been some recent research in to growing vertical gardens locally, the industry technology is in its infancy. Additionally, the barrier imposed by water restrictions is unresolved: the Water Corporation has advised that until all other water-saving techniques have been tested an exemption will not be considered.

This option also requires an ongoing commitment to engage specialised maintenance to ensure its success which needs to be budgeted accordingly.

### FINANCIAL IMPLICATIONS:

The vertical garden system will be assembled off site and installed in situ to minimise disruption to local business and events held at the Piazza. The cost estimate includes all materials, plants, soil, framing and labour to install the modular vertical garden system:

Item	Cost
Removal of existing planting and installation of replacement	\$6,000
plants	
Supply and installation of vertical garden boxes	\$20,000
Delivery and installation including access equipment	\$14,000
Modifications of the existing irrigation system	\$4,000
Contingency and project management	\$16,000
Total	\$60,000

A budget of \$60,000 to implement the vertical garden has been established in the February 2016 review based on identified surplus funds or cancelling an existing project / program.

The Parks Unit have budgets to undertake the ongoing maintenance of the vertical garden.

All figures quoted in this report are exclusive of GST.

### **COMMENTS:**

The city's 'urban forest' is comprised of trees and other vegetation within both the public and private realm such as the Northbridge Piazza screening wall. An intervention of some form is needed to improve the presentation and function of the existing wall.

It is recommended that the vertical garden option be approved and implemented as it presents an opportunity for the City to demonstrate innovation by leading the development of a water-wise vertical garden appropriate for our unique climate.

This research would be a valuable investment, with the knowledge and experience gained promoting and providing leadership in the development of future vertical gardens within the City. It also shows our commitment to green infrastructure and the development of the City's urban forest.

Installation of the vertical garden system is programmed to be completed within 3 weeks, prior to the 30 June 2016, with a focus during the construction period on minimising disruption to pedestrians, businesses and events held at the Piazza.

A communications plan will be developed to ensure that all stakeholders are adequately notified of works and to deal with any specific needs around access requirements during the works.

### Moved by The Lord Mayor , seconded by Cr McEvoy

### **That Council**

- 1. approves the installation of a modular vertical garden system to enhance the existing Northbridge Piazza screening wall at a cost of \$60,000 (ex GST); and
- 2. notes that the installation of the vertical garden is scheduled to be completed by 30 June 2016.

### The motion was put and carried

The votes were recorded as follows:

For: Cr Limnios, The Lord Mayor and Cr McEvoy

Against: Nil

WK33/16 IMPACT ON RESIDENTIAL AMENITY DUE TO

RECREATIONAL ACTIVITES IN MOUNT STREET, CLIFF STREET, BELLEVUE TERRACE AND JACOB'S

**LADDER** 

### **BACKGROUND:**

FILE REFERENCE: P1032337

REPORTING UNIT: Co-ordination & Design
RESPONSIBLE DIRECTORATE: Planning and Development

DATE: 16 February 2016

MAP / SCHEDULE: Schedule 5 – Council Resolutions - Status Update

Schedule 6 – Cliff Street Streetscape Alterations Schedule 7 – Stakeholder Consultation – Results Schedule 8 – Mount Street – Options Report Schedule 9 – Proposed Parking Changes

A report regarding the impact on residential amenity due to recreational activities in the Mount Street/Cliff Street area was presented to Council on **1 September 2015** in response to on-going complaints received by the City from local residents. Council endorsed the following resolutions:

- "1. acknowledge that there are adverse amenity impacts to residents in Cliff Street, Mount Street and Bellevue Terrace due to the popularity to Jacob's Ladder and Mount Street for public use;
- 2. endorses the following actions:
  - 2.1 increase regular patrolling and escalating application of Local Laws against the offending users for enforceable offences;
  - 2.2 undertaking recurrent awareness campaigns to encourage users to respect amenity for residents (including amended signage);
  - 2.3 installing mobile Wi-Fi CCTV and align remote surveillance to patrolling and enforcement by Rangers and WA Police;
  - 2.4 amending the City of Perth jogging/walking promotional materials to discourage organised users;

- 2.5 immediately investigating and consulting with affected residents on Cliff Street streetscape alterations to create an interface buffer on the east side and constrain available area for users;
- 2.6 immediately investigating and consulting on Mount Street median landscaping to constrain area for users;
- 2.7 immediately engaging cycling clubs and actively discourage informal criterium and time trial activities in Mount Street and requests Officers to investigate potential traffic calming on the northern side of Mount Street to discourage groups of cyclists from using Mount Street as an informal criterium space;
- 3. that the request by residents to introduce residents only parking in Mount Street, Cliff Street and Bellevue Terrace between 6.30pm and 8.00am, be referred back to the Works and Urban Development Committee for further consideration;
- 4. requests Officers to undertake a review within 6 months of the initiatives outlined in part 2 above to assess whether they have been successful in addressing residents' concerns, and that a report of the review be provided to Council."

This report provides a brief update on the status of these Council Resolutions. It also provides a summary of the recent stakeholder consultation on the Cliff Street Streetscape Alterations – Concept Plan and includes a proposal to manage on-street parking in Mount and Cliff Street.

### **LEGISLATION / STRATEGIC PLAN / POLICY:**

**Legislation** Section 3.50 of the *Local Government Act 1995* Part 2 of the

Local Government (Functions and General) Regulations

1996

Integrated Planning Corporate Business Plan

and ReportingFrameworkCouncil Four Year Priorities: Living in PerthS9Promote and facilitate CBD living

**Implications** 9.1 Review and manage the interface between the

growing residential population and the City of

Perth.

### **DETAILS:**

### Council Resolutions - Status Update

The City has been implementing a number of initiatives to improve the environment for residents in Cliff and Mount Street.

An update on the status of each of the Council Resolutions that were endorsed on 1 September 2015 is attached as Schedule 5.

### Proposed Cliff Street Streetscape Alterations – Stakeholder Consultation

A concept plan was developed for Cliff Street to create an interface buffer on the eastern side and constrain the available area for users. See attached Schedule 6. The proposed changes include:

- Removal of the footpath on the eastern side of Cliff Street.
- Removal of the 5 car parking bays on the eastern side of Cliff Street.
- Kerb extended to create a new verge planted with small shrubs and Jacaranda trees in the eastern side of Cliff Street.
- Widened footpath on the western side of Cliff Street.
- New pedestrian ramps at the Cliff Street and Mount Street intersection.

The proposal was sent to 445 residential addresses on Cliff Street, Mount Street, Bellevue Terrace and Mounts Bay Road on the 12 January 2016. The consultation period closed at 2pm, 5 February 2016.

Thirty-six (36) formal responses were received and are collated in Schedule 7. The following table provides a summary breakdown of the feedback:

Stakeholder Comment	No.	City's Response
Support for the proposal	15	Noted.
Not supportive – the main concerns raised were in relation to the removal of the existing onstreet parking bays.	18	The proposed removal of the parking allows for 'greening' of the street environment as well as creating a buffer to residential properties.
Other – did not state for or against the proposal or were only partially supportive.	3	Noted.

Schedule 7 provides a full account of stakeholder comments.

### **Mount Street – Investigate Potential for Traffic Calming**

The following options have been investigated to slow cycling speeds on Mount Street and to create a safer road environment for all road users and local residents:

 Horizontal Traffic Calming – by staggering the parking on the northern side of Mount Street, to create a "zig-zag" effect.

- 2. Vertical Traffic Calming by placing flat top speed tables on the northern side of Mount Street.
- 3. Dedicated Cycle Lane providing a dedicated cycle lane to effectively reduce the width of Mount Street.

Refer Schedule 8.

Given the steep (12 – 15%) gradient of Mount Street all 3 options presented unacceptable safety and usability issues. An alternative option for an Integrated Cycle Route requiring minimal infrastructure which still visually narrows the road without the safety concerns is recommended. This option:

- Aligns with the City of Perth Cycle Plan 2029
- Requires minimal construction costs and is easy to implement
- Has no loss of on-street parking
- Encourages slower speeds for both cyclists and vehicles
- Aligns with best practice bicycle facility design that incline

Subject to Main Roads WA this Integrated Cycle Route option is scheduled to be implemented before 30 June 2016.

### **Managing On-Street Parking in Mount and Cliff Street**

It became apparent during the recent consultation on the Cliff Street streetscape alterations that parking was a key issue for stakeholders. Options available for managing on-street parking in Mount and Cliff Streets have been assessed in response to some of the issues raised by residents; namely, reduced parking availability in the afternoon peak (after 4.00pm-5.00pm). It is recommended that consideration be given to the following changes to on-street parking;

- 1. Change parking ticket restrictions within the Mount Street Designated Locality (as defined in COP Policy 22.6, Fig. 5), from 8.00am-6.00pm (existing) to 8.00am-8.00pm (proposed). A plan of the Locality is attached (Schedule 9).
- 2. Change some on-street parking in close proximity to the Mount/Cliff Street intersection from its current 2 or 3 hour restriction to a 1/2 hour restriction (exact parking spaces to be changed to 1/2 hour restriction are to be determined, but are likely to include 12-20 bays).

These changes are intended to:

- Discourage non-compliance, as parking restrictions will be in place later in to the evening.
- More appropriately charge for car parking in the area, given the high demand for parking after 6.00pm.
- Increase the availability of parking throughout the day by encouraging higher turnover (via the ½ hour restriction bays).

Residents will continue to have access to the on-street parking permit scheme, which specifies that:

- One parking permit can be issued to any dwelling within the Mount Street designated locality;
- The parking permit is to have a four hour time restriction during business hours, and unrestricted at other times; and
- Residential dwellings that do not have any off-street parking allocated to them, are eligible for one parking permit without any time restriction.

As these changes represent a departure from City of Perth Policies 22.6 (*Resident On-Street Parking Policy*) and 22.9 (*On-Street Parking*) stakeholder consultation would be required, the results of which would be presented to the next Works and Urban Development meeting for consideration.

Depending on the results of the consultation, the trial could be implemented for a period of six months commencing in April 2016, after which time the benefits, costs and other implications will be assessed and next steps can be determined.

### FINANCIAL IMPLICATIONS:

The estimated cost of implementing the proposed Cliff Street streetscape alterations is \$149,276 (ex GST). Given that the majority of stakeholders did not support the proposal, these funds will be used to implement other measures such as changes to the on-street parking.

### **COMMENTS:**

### **Council Resolutions – Status Update**

A review of the initiatives will be undertaken to assess whether they have been successful in addressing residents' concerns, and a report of the review will be provided to a future Council meeting.

### Proposed Cliff Street Streetscape Alterations – Stakeholder Consultation

The proposed Cliff Street streetscape alterations will not be implemented due to lack of stakeholder support.

### **Mount Street - Investigate Potential for Traffic Calming**

It is recommended that the option of an Integrated Cycle Route be considered and implemented as part of the City's Cycle Plan 2029 Implementation Program by 30 June 2016. This would comprise of cycle markings on the carriageway as well as "SLOW" markings and "Share the Road" signs subject to Main Roads WA approval.

### **Managing On-Street Parking in Mount and Cliff Street**

In response to parking issues experienced recently in Mount and Cliff Streets, issues which were reiterated through the results of recent public consultation on the proposed Cliff Street Streetscape Alterations, options have been developed to improve on street parking availability for residents.

The results of the stakeholder consultation on the proposal parking changes will be presented at the next Works and Urban Development Committee with the trial scheduled to commence from April 2016.

### OFFICER RECOMMENDATION

### That Council:

- receives an update on the status of the Council Resolutions endorsed on 1 September 2015 as detailed in Schedule 5;
- 2. receives the results of the stakeholder consultation on the Cliff Street Streetscape Alterations Concept Plan as detailed in Schedule 7;
- 3. notes that the proposed Cliff Street streetscape alterations will not be implemented due to lack of stakeholder support;
- 4. approves stakeholder consultation on the proposed amendments to on-street parking as a six month trial in the Mount Street Designated Locality, refer Schedule 9 as defined in the City's Policies 22.6, Fig 5:
  - 4.1 change parking ticket restrictions from 8.00am 6.00pm to 8.00am 8.00pm;
  - 4.2 change some on-street parking in close proximity to Mount/Cliff Street intersection from its current 2 or 3 hour restriction to ½ hour restriction:
- 5. receives the results of the stakeholder consultation on the proposed parking changes at the next Works and Urban Development Committee.

The Works and Urban Development Committee agreed to defer the item as follows:

Moved by The Lord Mayor, seconded by Cr McEvoy

That the Works and Urban Development Committee defer consideration of the report titled "Impact on residential amenity due to recreational activities in Mount Street, Cliff Street, Bellevue Terrace and Jacobs Ladder" to enable additional information to be provided to the Committee in respect to the design and residential concerns around this area.

The motion was put and carried

The votes were recorded as follows:

For: Cr Limnios, The Lord Mayor and Cr McEvoy

Against: Nil

WK34/16 MOTIONS OF WHICH PREVIOUS NOTICE HAS BEEN

**GIVEN** 

Nil

WK35/16 GENERAL BUSINESS

### Responses to General Business from a Previous Meeting

**New General Business** 

### 1. Parking near Cathedral Square

The Lord Mayor raised concerns in regards to vehicles driving up and parking on the road near Hay Street opposite Cathedral Square and the impact this is having on the amenity of this area (eg. Oil stains). The Lord Mayor requested whether there can be more enforcement around this including the installation of signs that state no traffic beyond this point.

The Chief Executive Officer advised that information will be provided to the Precinct Group to action the request on parking administration in respect to the initial approval that was granted and request them to consider additional traffic controls within this area.

### 2. Loading Dock – St Georges Tce

The Lord Mayor queried the lack of access and utilisation the City has to the Loading Dock on St Georges Tce with regard to the amount of money the City contributed to this space. The Chief Executive Officer advised he will investigate and provide and update to the Elected Members.

### WK36/16 ITEMS FOR CONSIDERATION AT A FUTURE MEETING

### **Outstanding Items:**

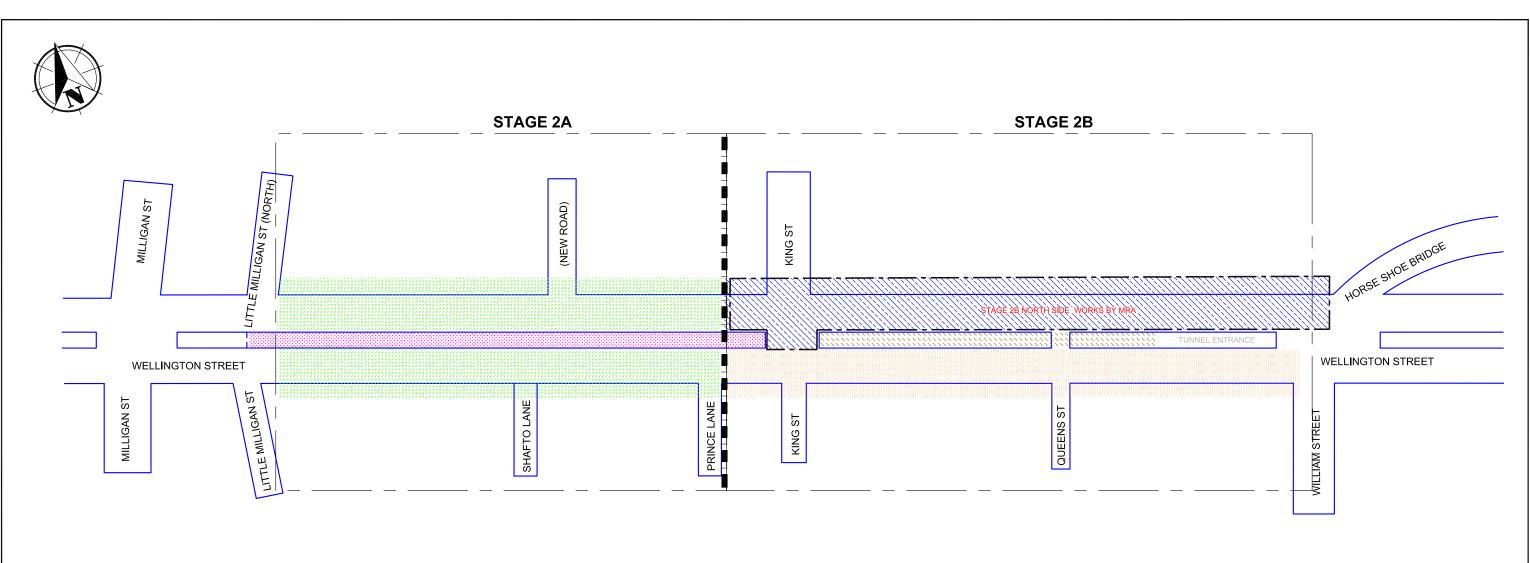
 Northbridge Piazza Screening Wall – Detailed Costing's for Enhancement (Raised 18/08/14, update provided 10/02/15 and updated by CEO 18/08/15)

This matter was addressed at this meeting in the report titled "Northbridge Piazza – Screening Wall Enhancement" (refer to Minute Item WK33/16).

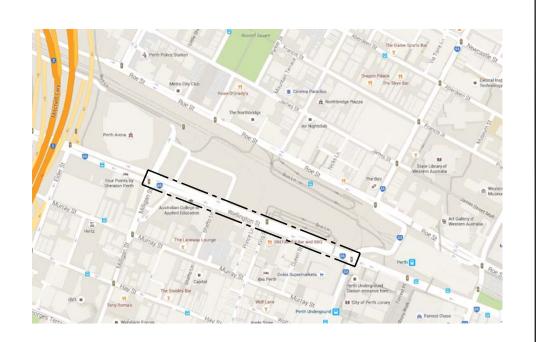
### WK37/16 CLOSE OF MEETING

**6.06pm** There being no further business the Presiding Member declared the meeting closed.

# SCHEDULES FOR THE MINUTES OF THE WORKS AND URBAN DEVELOPMENT COMMITTEE MEETING HELD ON 1 MARCH 2016













23 December 2015

Mr Gary Stevenson PSM Chief Executive Officer City of Perth GPO Box C120 Perth WA 6839

Our Ref: MRA-02651 / 533473

Dear Gary

### PERTH CITY LINK - STAGE 2B WELLINGTON STREET AND STAGE 3 **OUEEN STREET WORKS**

The MRA has released a tender for its Stage 2B Wellington Street and Stage 3 Queen Street scheme service works. These works include the delivery of major scheme service infrastructure upgrades to support future development lots within the project. It is expected that the MRA will nominate a preferred contractor in March 2016, with works to commence from May 2016.

Following from discussions between representatives from the City of Perth and MRA, at the request of the City of Perth, the MRA has also included the City's Wellington Street landscape enhancement scope of works within its tender as priced options to be undertaken as separable portions:

- Wellington Street northern verge landscape works (Prince Lane to William Street);
- Wellington Street median island landscape works (King Street to William Street); and
- Wellington Street northern carriageway construction (Prince Lane to William Street).

The MRA's appointed Quantity Surveyor has prepared a pre tender estimate for the City's scope of works, inclusive of construction costs, contingency, consultant fees (project management, quantity surveyor, engineering and superintendent fees) and the MRA's administration fee. The estimate is currently \$2,560,000 (excluding GST).

Once the preferred contractor is nominated, the MRA will liaise with the City to confirm the tendered price of the preferred contractor and to seek the City's final confirmation to proceed. However, in the interim, the MRA requires confirmation that the City has adequate approved budget provisions for this scope of works during the 2016/17 financial year.

It is expected that the MRA's delivery of these works for the City would follow the same terms and conditions as those agreed for the most recent Perth City Link Stage 2A works package recently delivered by the MRA on behalf of the City and the MRA also requests the City's confirmation of this.

If the City has any queries in relation to this matter and wishes to discuss this further please contact Director Operations Richard Jeffcote on 6557 0700.

I look forward to your return confirmations.

Yours sincerely

AGH TH

Kieran Kinsella

**Chief Executive Officer** 



# WELLINGTON STREET ENHANCEMENT – STAGE 2B (King Street to William Street)

### **INDICATIVE COST ESTIMATE**

For

### **City of Perth**

Prepared by: **Rider Levett Bucknall WA Pty Ltd** Level 9, 160 St Georges Terrace PERTH WA 6000

ABN 85 067 958 418 Tel +61 8 9421 1230 Fax +61 8 9322 7592

www.rlb.com

February 2016



### **CONTENTS**

1	Introduction	1
2	Basis of Cost Estimate	1
3	Cost Estimate Summary	3

### **FIGURES**

Figure 1 – Cost Estimate Summary

### **APPENDICES**

Appendix A - Cost Estimate

Rev	Originator	Approved	Authorised	Date
Final	Steven Harrison	Alistair Aitken	Alistair Aitken	15 <sup>th</sup> February 2016
Draft	Steven Harrison	Alistair Aitken	Alistair Aitken	28 <sup>th</sup> January 2016



### 1 Introduction

Rider Levett Bucknall (RLB) was appointed by the City of Perth to provide cost estimating services for the proposed Wellington Street Enhancement – Stage 2B project.

### 2 Basis of Estimate

### 2.1 Design Information

The following design information was provided to RLB for this report:

- o King Street to William Street
  - Drawings referenced 0506106 (all revision D) L0-101, L3-101,102,103,104,105, L4-101,102,103,104,105, L6-101, L7-101,102,103,104.

### 2.2 Assumptions

The following assumptions and factors have been considered and included within this estimate:

- The scope of works for this estimate is limited to those works north of the pedestrian pavement kerb line.
- o The construction duration has been assumed at between 3 4 months.
- The estimate assumes that the works will be carried out in a continuous manner.
- The scope of works will require some limited works (i.e. crossovers and at junction with existing works) to be carried out at weekends and/or nights to minimise disruption to road users and to provide for safe working.
- Excavation within the proximity of existing services will require care and allowances have been included in the estimate for hand-digging and spotters where appropriate.
- o The works will be competitively tendered on a construct only basis.
- The estimate is based upon current rates at January 2016.



### 2 Basis of Estimate (continued)

### 2.3 Exclusions

The following items are excluded from the estimate:

- Roadworks and median strips to Wellington Street (south of kerb line to pedestrian pavement).
- o Stormwater drainage (no details provided).
- o Street lighting (no details provided).
- o New road signage and road pavement markings by MRWA.
- o Street furniture including bollards, seating, ticket machines and the like.
- Removal of existing light poles.
- Traffic signals.
- o Relocation and/or lowering of existing services, utilities and drains.
- Water reticulation to new landscaping.
- o Vibration and movement monitoring of existing services.
- o CCTV monitoring systems.
- o Latent ground conditions including rock, unknown services and contaminated ground.
- o Escalation.
- Goods and Services Tax.



### 3 Cost Estimate Summary

### 3.1 Estimate Summary

The construction cost estimate for these works is \$3,023,000 (excluding GST). A summary of the estimate is contained in Figure 1 below:

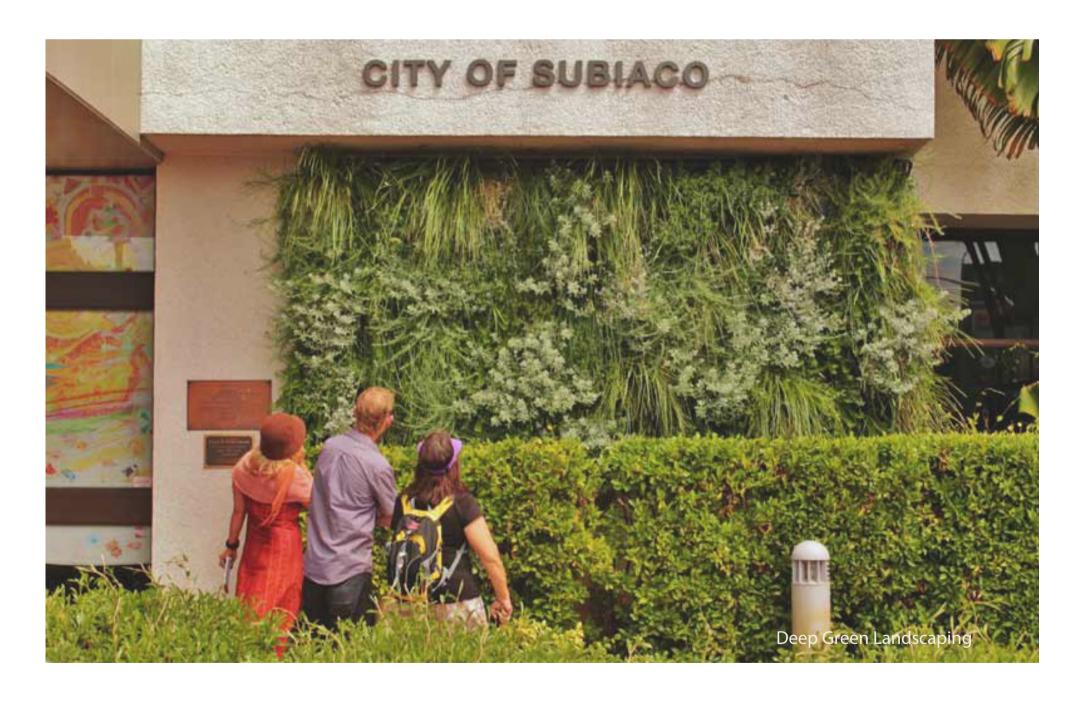
Location		Total Cost
KING ST TO WILLIAM ST		\$1,956,000
MARGINS & ADJUSTMENTS	ESTIMATED NET COST	\$1,956,000
Preliminaries	18%	\$352,000
Builders Margin	5%	\$116,000
	CONSTRUCTION COST SUB-TOTAL	\$2,424,000
Contingencies	10%	\$242,000
Professional fees	8%	\$213,000
City of Perth project costs	5%	\$144,000
Escalation		Excl.
Goods and Services Tax		Excl.
	ESTIMATED TOTAL COST	\$3,023,000

Figure 1 - Cost Estimate Summary

Please refer to Appendix A for a detailed breakdown of the estimate.



**Existing** Screening Wall



**Example** Vertical Garden using Australian native plants (east-facing) City of Subiaco library, corner Rokeby and Bagot Roads



**Proposed** Vertical Garden (west-facing)

Cost Estimate: \$60,000, with a maintenance cost of \$4,500 per annum

### COUNCIL RESOLUTIONS 1 SEPTEMBER 2015 - UPDATE

Resolution	Comment	Status
<b>2.1</b> increasing regular patrolling and escalating application of local laws against offending users for enforceable offences.	<ul> <li>Rangers have increased frequency of visits to Mount Street per day (both on foot and also mobile) to 2-3 times per day.</li> <li>Rangers will continue to liaise with Surveillance Centre off CCTV issues that arise.</li> </ul>	<b>✓</b>
<b>2.2</b> undertaking recurrent awareness campaigns to encourage users to respect amenity for residents (including amended signage)	<ul> <li>New signage was installed in Cliff and Mount Street on 22 January 2016.</li> <li>Social media content will be used to provide information about the use of Jacob's Ladder and promote the City's free group fitness sessions at Northbridge Piazza. These campaigns will be on-going.</li> </ul>	
<b>2.3</b> installing mobile Wi-Fi CCTV and align remote surveillance to patrolling and enforcement by Rangers and WA Police	Wi-Fi CCTV has been installed and images will be transmitted to the City of Perth Surveillance Centre.	<b>✓</b>
<b>2.4</b> amending the City of Perth jogging/walking promotional materials to discourage organised users;	City of Perth promotional information has been removed from the website	V
2.5 immediately investigating and consulting with affected residents on Cliff Street streetscape alterations to create an interface buffer on the east side and constrain available area for users;	<ul> <li>Public consultation closed 2pm Friday 5 February 2016. A total of 36 responses were received. These responses are tabled in <b>Schedule 7</b>.</li> </ul>	<b>V</b>
<b>2.6</b> immediately investigating and consulting on Mount Street median landscaping to constrain area for users;	A landscape proposal for the whole of the Mount Street median will be prepared in conjunction with the proposed traffic calming treatments.	In Progress

2.7 immediately engaging cycling clubs and actively discourage informal criterium and time trial activities in Mount Street and requests Officers to investigate potential traffic calming on the northern side of Mount Street to discourage groups of cyclists from using Mount Street as an informal criterium space;	<ul> <li>Westcycle and Bicycling Western Australia have been contacted regarding cycle activity in Mount Street. The City will continue its ongoing engagement with the following key state and public stakeholders within the cycling community regarding cycling issues and, in particular, the promotion of safe cycling in the city:         <ul> <li>Department of Transport Cycling and Urban Strategies Team</li> <li>Main Roads WA Pedestrian and Cycling Coordinator</li> <li>West Cycle - peak body for competitive cycling in WA</li> <li>Bicycling Western Australia</li> </ul> </li> <li>Investigations of suitable traffic calming treatments for Mount Street have been undertaken. Refer Schedule 8.</li> </ul>	<b>✓</b>
3.0 that the request by residents to introduce residents only parking in Mount Street, Cliff Street and Bellevue Terrace between 6.30pm and 8.00am, be referred back to the Works and Urban Development Committee for further consideration	Officers have assessed the options available for managing on-street parking in Mount and Cliff Streets in response to some of the issues raised by residents; namely, reduced parking availability in the afternoon peak (after 4-5pm). It is recommended that stakeholder consultation be undertaken on the proposed amendments to on-street parking as a 6 month trial. Refer Schedule 9.	In Progress



CLIFF STREET - Planted Verge Proposal

Concept Plan - 1:250 @ A3

Jacobs Ladder to Mount Street January 2016

### CLIFF STREET STREETSCAPE ALTERATIONS - CONCEPT PLAN - STAKEHOLDER CONSULTATION

TRIM REF	DATE RECEIVED	Resident/business	COMMENTS	
		FULLY SUPPORTIVE		
12520/16	27/01/2016	Resident Mount Street	Suggests more signage in the area to inform groups are not permitted but individuals are welcome.	
12524/16	27/01/2016	Resident	Suggests more monitoring of illegal parking along Cliff and Mount Street.	
12831/16	27/01/2016	Resident Mount Street	Happy with proposal as set out.	
15055/16	25/01/2016	Resident Mount Street	Thanked the City and commented that the area always looks nice. Comment about sprinklers on Bellevue Terrace watering the street.	
12656/16	27/01/2016	Resident Mount Street	Suggests that the Jacaranda trees will continue the current character on the northern end of Cliff Street.	
12652/16	27/01/2016	Resident Mount Street	Agrees with comment above.	
12674/16	27/01/2016	Resident Bellevue Tce	Supportive of alterations. Has a problem with fitness groups in Cliff Street and Mount Street	
12210/16	12/01/2016	Resident Mount Street	Supportive but believes the plan will not stop the over use and excessive parking from people out of area.  Suggests introducing residents only parking.	
12838/16	27/01/2016	Resident Bellevue	Believes the removal of car parking will shift parking congestion onto Bellevue Terrace. Supports outdoor activities but the roads to be managed so that residential amenity and visitors needs are accommodated.	
13485/16	28/01/2016	Resident Mount Street	Happy to see Council do something positive in reducing traffic. Suggested Council replace the box trees in Mount Street with Jacaranda Trees.	
15615/16	1/02/2016	Resident Mount Street	Wants to know if the streetscape alterations are part of a larger plan for the area.	
12703/16	27/01/2016	Resident Mount Street	Wants resident only parking for Mount Street	
12693/16	27/01/2016	Resident Mount Street	Believes the verges outside 69, 66 and 64 Mount Street need to be restored.	
18891/16	5/02/2016	Resident Cliff Street	Suggests a shaded area on the west side of Cliff Street by Jacob's Ladder. Comments that people sit on the east side of Cliff Street (residential side) due to them seeking shade.	
19481/16	8/02/2016	Resident Cliff Street	Suggests that verge outside apartment building be improved as it damaged.	
		NOT SUPPORTIVE		
12666/16	27/01/2016	Resident Cliff Street	Supportive of removing car parks in Cliff Street. However, wants them to be resident only car parks and closed to normal vehicles.	

12649/16	27/01/2016	Resident	Against removal of footpath on eastern side. In favour of removing 5 car parking bays. Against extension of kerb. Against widening of footpath on western side of Cliff Street as it is an unnecessary expense as 30cm could be gained by trimming the shrubs.	
9441/16	20/01/2016	Resident Mount Street	Comment on letter mentioning improvements to Mount Street but nothing in the document suggesting any improvements. Suggests an overall plan for the entire area. Removal of parking bays on Cliff St will increase traffic and parking measures on Mount Street. Makes suggestions such as resident only parking, tolls for Jacob's Ladder, speed controls for cyclists, and closing mount street bridge to cyclists	
12509/16	27/12/2016	Resident Bellevue Terrace	Against proposed changes, feels plan to improve and deter activity in Cliff Street will do nothing. Against footpath widened, Comments that the viewing platform is unchanged and will remain as an exercise area. Comments that the proposed changes were to be in consultation with "concerned or affected" residents before any drawings done or distributed to other residents as promised by City's CEO. Against sending the plan to other residents in the area.	
12780/16	27/01/2016	Resident Mount Street	Against changes, concerned over removal of parking bays as these are not only used by people visiting Jacob's ladder. Likes idea of more green space but believes this will be used by people after exercising at Jacob's ladder	
12233/16	25/01/2016	Resident	Suggests proposed changes will not discourage exercise groups. Against removing parking bays - believes this will be too expensive for cosmetic reasons. General Concerns about "aggressive cyclists" and people utilising road, footpath, lawns for exercising. believes no amount of landscaping and money will change this. Does no mind fitness users but believes groups should be removed. Does not want the City to waste money.	
16001/16	2/02/2016	Resident Cliff Street	Believes proposal will not address issues exercise issues in Cliff Street. Believes restricting access by making local streets resident only parking outside business hours. Believes streetscape changes that make the area less attractive to "long term lingering" would help address issues.	
15996/16	2/02/2016	Resident Mount Street	Believes proposal will not accomplish much. Suggests a larger scale solution needs to be found to address the ongoing issues. Believes until a range of solutions are found that limiting access to Cliff Street, Mount Street and Bellevue Terrace outside business hours by way of resident only parking.	
14998/16	1/02/2016	Resident	Believes the only long term solution to the issues in the area is too remove Jacob's Ladder altogether.	
17611/16	4/02/2016	Resident Mount Street	Believes the proposal is not a practical solution to the affected residents, believes planting trees in that section of Cliff Street will damage adjacent properties.	
15972/16	2/02/2016	Resident Mount Street	Not supportive of discouraging people to exercise. Believes having activity around the streets increases resident safety, as well as supporting local businesses. Believes if people are pushed away from the area, it will become a destination for graffiti vandals.	
14275/16	20/01/2016	Resident Mount Street	Does not want car park bays removed. Believes that the beautifying of the street should come after more car parking bays are created.	

12779/16	20/01/2016	Resident Mount Street	Believes that the residents complaining believe they are more important than other residents. Believes that if the City tried to exclude some of its residents for the benefit of a few is undemocratic. The removal of 5 car parking space will inconvenience a lot of people outnumbering those who complain.	
12698/16	27/01/2016	Resident Bellevue Terrace	Believes that car parking will cause more congestion on Mount Street and Bellevue Terrace. Wants resident only parking in Mount Street and Bellevue Terrace. Does not like the idea of removing the footpath on the east side of Cliff Street to the West side as people will have to cross the road twice to get to Jacob's Ladder.	
12689/16	27/01/2016	Resident	Believes community members should be encouraged to continue fitness activities in the area. Believes the area houses many conservative (in nature) older, and selfish people whose inability to exercise means that nobody else is allowed to. These residents often make the most noise and hopes they do not sway City of Perth policy. Believes commercial fitness groups should be restricted. Cliff Street streetscape alterations will only exacerbate issues by reducing parking in the area. Believes public transport should be encouraged and more public transport infrastructure. Believes apartment developers in the area should be required to provide more on site parking.	
12645/16	27/01/2016	Resident Mount Street	Against planting of Jacaranda Trees. Against the widening of the footpath of Cliff Street. Did not comment on the pedestrian ramps as they were unsure what this consisted of.	
19702/16	8/02/2016	Resident Mount Street	Does not think money should spent in an affluent area such as Mount Street and Cliff Street.	
20684/16	9/02/2016	Resident Mount Street	Believes the proposal enhances the private amenity of the exceedingly wealthy and influential people on Clif Street but exacerbates the issues facing the rest of the residents. Complaint regarding lack of car parking for residents.	
		OTHER		
12508/16	27/01/2016	Resident Mount Street	Supported planting of trees, renovating of the area, and installing pedestrian ramps but against the removal of parking bays. Commented on personal enjoyment of having people on the street to watch and it is nicer than being on a quiet deserted street.	
19483/16	5/02/2016	Resident	Does not state for or against proposal. Complained about noise from exercisers at Jacobs Ladder. Comments that the ladder is used 24hr and have encountered anti social behaviour, drunkenness, urinating etc. Explained that they had signed a petition to have the exercise equipment at the bottom of Jacob's Ladder removed.	
18917/16	5/02/2016	Resident	Does not state whether for or against. Suggests more restrictions to the cyclists, joggers/runners. Comments that cyclists ride against traffic. Pedestrian ramps are for pedestrians only not runners. Grass verge is for beauty and nature, not for being tramped on. Suggest the footbridge at the end of Mount Street be pedestrian only and cyclists should dismount. Suggests reducing the noise of helicopters, sirens etc. especially at night.	



# **MOUNT STREET**OPTIONS REPORT

To overview options for slowing cycling speeds

21 January 2016

TRANSPORT UNIT DEVELOPMENT CITY OF PERTH

### **CONTENTS**

1.	Introduction & Background	4
	Existing Situation	
	Options Assessment	
	Preferred Option	
	Conclusions & Recommendation	
Att	achment 1: Option 1 – Integrated Cycle Route	7
	achment 2: Option 2 – Traffic Adjacent Cycle Lane	
	achment 3: Option 3 – Kerb Side Cycle Lane	

### 1. Introduction & Background

This Report has been developed to provide an overview of traffic calming options for the northern side of Mount Street in West Perth. The purpose of the design intervention is to slow cycling speeds and to create a safer road environment for all road users and local residents.

There is a history of complaints from local residents with regard to disturbances attributed to fitness activity occurring in the area surrounding and including Cliff Street and Mount Street in West Perth.

In June 2015, a meeting was held between senior level Council representatives and eight residents regarding their concerns. In response, the CEO presented a seven point plan to address the issues raised, primarily aimed at deterring or constraining the use of the area.

This resulted in a report to Council and at its meeting on 1 September 2015, Council endorsed the series of actions (item 387/15). Of particular relevance to cycling was action 2.7 which reads:

"immediately engaging cycling clubs and actively discourage informal criterium and time trial activities in Mount Street and requests Officers to investigate potential traffic calming on the northern side of Mount Street to discourage groups of cyclists from using Mount Street as an informal criterium space."

Following this meeting, a report was submitted by the Co-ordination and Design Unit (CDU) to the Executive Leadership Group (ELG) on 7 December 2015. This report considered a range of options for the Cliff Street and Mount Street area regarding leisure usage. In relation to traffic calming for Mount Street, three suggestions were offered:

- 1. Horizontal Traffic Calming by staggering the parking on the northern side of Mount Street, to create a "zig-zag" effect.
- 2. Vertical Traffic Calming by placing flat top speed tables on the northern side of Mount Street.
- 3. Dedicated Cycle Lane providing a dedicated cycle lane to effectively reduce the width of Mount Street.

ELG recommended that the 3rd suggestion of a dedicated cycle lane be further considered. This report considers this option.

### 2. Existing Situation

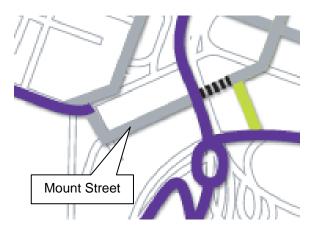
Mount Street is mostly a residential street located in West Perth, with some business activity at the most eastern end. The street has a 50 km/hr speed limit and is identified as an access road under the Metropolitan Road Hierarchy.

Mount Street is 280 metres in length with a steep gradient from Cliff Street down to the footbridge/cycle overpass. The street has a wide landscaped central median and vehicles circulate clockwise around this to access properties.

Kerbside parking is currently provided on both sides of the street between driveways. The area is also a designated locality under the City of Perth's Residential Parking Policy 22.6, whereby residents can apply for permits to park on-street.

Main Roads Western Australia (MRWA) crash statistics indicate that only one crash involving a cyclist and a car has occurred in Mount Street since 2010.

The City of Perth Cycle Plan 2029 designates Mount Street as an Integrated Cycle Route (grey on the image below).



The Integrated Cycle Route for Mount Street, and for Cliff Street were scheduled to be undertaken in the 2014/15 financial year, at a cost of \$5,000 each but were not completed.

### 3. Options Assessment

Discussion within the Transport Unit took place on 8 January 2016 regarding the merits and viability of a dedicated cycle lane option. These discussions took into consideration the need to provide a running lane for traffic; a parking lane; a cycle lane and a buffer zone between the cycle lane and adjacent traffic/parking lane.

The existing road width is generally 6.2 metres comprising a traffic lane of 4.1 metres and a parking lane of 2.1 metres. There are potential options of having a traffic lane of 3.0 metres and a parking lane of 2.1 metres which leaves space for a cycle lane and buffer zone of 1.1 metres.

Clearly, this is a very narrow facility which is unlikely to be used by many cyclists, and is likely to create a safety issue for those cyclists wishing to use it given the proximity of car doors and reduced conspicuity. Additionally, the maintenance of such a dedicated facility, if placed between the parking lane and kerb, would be difficult and relatively expensive.

Cross sections and commentary for two dedicated cycle lane options are shown at Figure 2 and 3. The Transport Unit considers both of these options to be against best practice design given the context of Mount Street.

The safety and usability aspects of providing a dedicated cycle lane could be improved by removing part of the median and widening the road to accommodate a buffer zone. However, this is considered to be excessive and outside of the scope of the project.

It was agreed that other options which visually narrow Mount Street would be considered as an alternative to a dedicated cycle route.

### 4. Preferred Option

Attachment 1 shows the requisite road markings and signing for an Integrated Cycle Route option. This comprises cycle markings on the carriageway as well as "SLOW" markings. "Share the Road" signs would also be placed

Markings for buffer zones for the nearside and offside would be submitted for MRWA approval. This would provide a visual narrowing effect.

### 5. Conclusions & Recommendation

It is concluded that a dedicated cycle lane is not technically feasible without widening the road. There are safety risks to cyclists as the buffer zone between car doors and cyclists would be considerable less than recommended

It is recommended that the option of an Integrated Cycle Route be considered and implemented as part of the Cycle Plan 2029 Implementation Program in the current financial year.

### **OPTION 1** Z. **MOUNT STREET** NOTE: SUBJECT TO MAIN **ROADS WA APPROVAL** ₽़ि⇔ SHARE THE ROAD 0.6m 0.5m **BUFFER BUFFER** 3.0m 2.1m FOOTPATH PARKING LANE INTEGRATED TRAFFIC LANE SECTION X - OPTION 1: INTEGRATED CYCLE ROUTE (RECOMMENDED) Option 1: Integrated Cycling Route **SCALE 1:50** PROS CONS Aligns with the City of Perth Cycle Plan 2029 Minimal construction costs & easy implementation No loss of parking No civil works required 0.5m **BUFFER** Encourages slower speeds for both cyclists & vehicles Aligns with best practice bicycle design 2.1m 3.6m FOOTPATH PARKING LANE TRAFFIC LANE MEDIAN 2.5 5 7.5 10 12.5m 0.5 1.0 1.5 2.0 2.5m **SECTION X - EXISTING SITUATION SCALE 1:50** SCALE 1:250 AT ORIGINAL SIZE SCALE 1:50 AT ORIGINAL SIZE DESIGNED THIS DWG & DESIGN IS SUBJECT TO COPYRIGHT AND S. Wilson **MOUNT ST - WEST PERTH** MAY NOT BE REPRODUCED WITHOUT PRIOR WRITTEN TRAFFIC ENG. DATE CONSENT, CONTRACTORS TO VERIFY ALL 15/01/2016 **BICYCLE TREATMENT** DIMENSIONS ON SITE BEFORE COMMENCING WORK. PROJECT MGR. SRI RANJAN - PRINCIPAL ENG, SCALE REPORT ALL DISCREPANCIES TO PROJECT MANAGER **OPTION 1 - RECOMMENDED** AS SHOWN G. Rodoreda PRIOR TO CONSTRUCTION. FIGURED DIMENSIONS TO

CITY of PERTH

COUNCIL HOUSE,

27-29 ST. GEORGE'S TERRACE, PERTH.

BE TAKEN IN PREFERENCE TO SCALED DRAWINGS.

S.Wilson

DWN

APP.

15/01/2016

DATE

**DESIGN ITERATION 1** 

REVISION DETAILS

SENIOR ENG.

S Ranjan

ERICA BARRENGER - MANAGER.

COORDINATION & DESIGN

DRAWING STATUS

**ISSUED FOR INFORMATION** 

CAD REF: 16001-MOUNT-CO-OPTION-1.dwg

CO-ORD SYS.

MGA 50 / AHD

REV.

INTEGRATED CYCLE ROUTE

SHEET No.

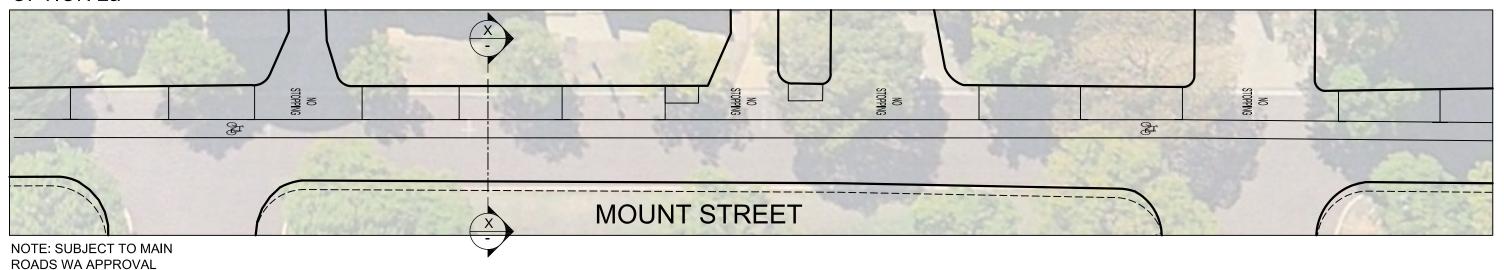
DWG TYPE

C - CO - 01

FOLDER: H:\CAD\1\_DR\1\_PUB\MOUNT\1 A3

DWG SET No. 16001

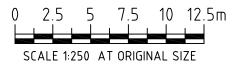
### **OPTION 2a**



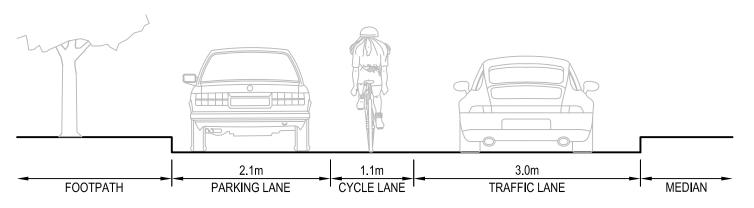
INDICATES KERB CUT BACK WIDTH
REQUIRED TO ACHIEVE OPTION 2b

CONS				
Does not align with the City of Perth Cycle Plan 2029				
Does not angle with the city of Fertil Cycle Fidit 2025				
Places cyclists in the driver's side "car door" zone which is very unsafe, particularly given the steep gradient.				
An adequate buffer between the parking lane and cycle lane cannot be provided within the existing road way unless on-street parking is removed or the kerb is modified, both of which are considered excessive [see note 1].				
High speed cycling is not deterred through the provision of a cycle lane.				
Increases the number of potential conflict points and limits				
visibility of cyclists by vehicles exiting driveways (and vice versa).				
The cycle lane is unlikely to be used by cyclists due to the potential				
safety implications of the infrastructure.				
Against best practice bicycle design				

Note 1: An additional 600mm would be required in order to provide a cycle lane facility with an adequate width and buffer. Main Roads WA approval is unlikely without the provision of a buffer. Refer to cross section 2b.

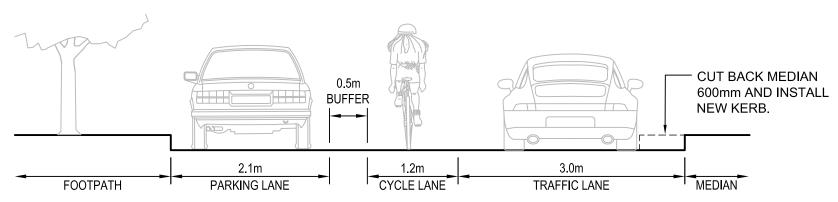






SECTION X - OPTION 2a: TA CYCLE LANE (NOT RECOMMENDED)

**SCALE 1:50** 



SECTION X - OPTION 2b: TA CYCLE LANE WITH BUFFER (NOT RECOMMENDED)

SCALE 1:50

THIS DWG & DESIGN IS SUBJECT TO COPYRIGHT AND MAY NOT BE REPRODUCED WITHOUT PRIOR WRITTEN CONSENT. CONTRACTORS TO VERIFY ALL DIMENSIONS ON SITE BEFORE COMMENCING WORK. REPORT ALL DISCREPANCIES TO PROJECT MANAGER PRIOR TO CONSTRUCTION. FIGURED DIMENSIONS TO BE TAKEN IN PREFERENCE TO SCALED DRAWINGS.

1 15/01/2016 DESIGN ITERATION 1 S.Wilson -REV DATE REVISION DETAILS DWN APP.



CITY of PERTH

COUNCIL HOUSE,
27-29 ST. GEORGE'S TERRACE, PERTH.

	DESIGNED	DRAWN
		S. Wilson
	TRAFFIC ENG.	DATE
		15/01/2016
SRI RANJAN - PRINCIPAL ENG,	PROJECT MGR.	SCALE
COORDINATION & DESIGN	G. Rodoreda	AS SHOWN
	SENIOR ENG.	CO-ORD SYS.
	S. Ranjan	MGA 50 / AHD
	DRAWING STATUS	

ERICA BARRENGER - MANAGER.

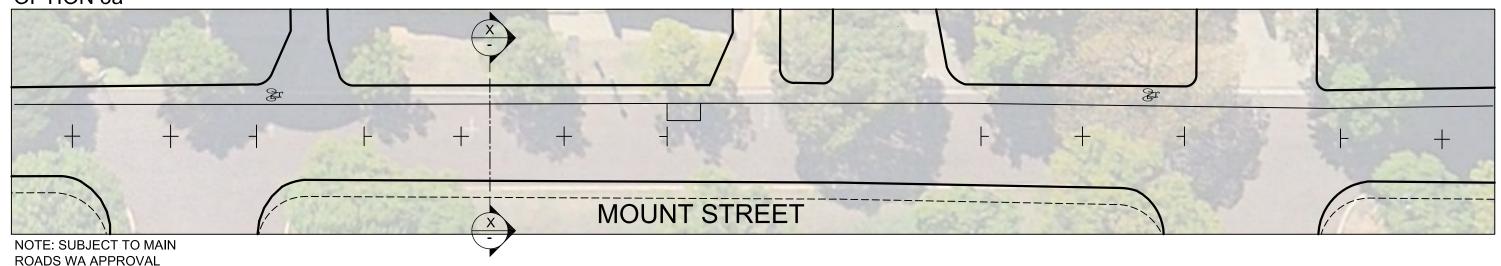
COORDINATION & DESIGN

THE SOL

## MOUNT ST - WEST PERTH BICYCLE TREATMENT

OPTION 2 - NOT REOMMENDED TRAFFIC ADJACENT (TA) CYCLE LANE

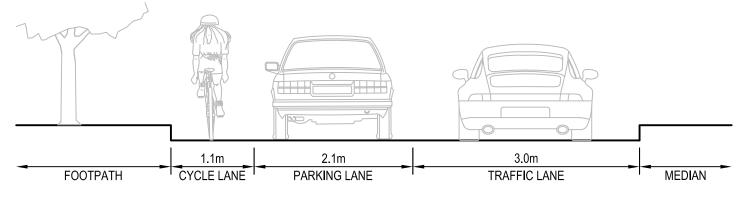
### **OPTION 3a**



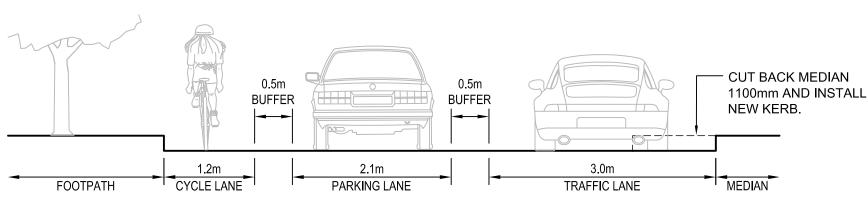
INDICATES KERB CUT BACK WIDTH **REQUIRED TO ACHIEVE OPTION 3b** 

Option 3: City cycle lane with 1.1m cycle lane north of the parking lane					
PROS	CONS				
Provides a designated space for cyclists	Does not align with the City of Perth Cycle Plan 2029				
	Places cyclists in the passenger's side "car door" zone which is unsafe, particularly given the steep gradient.				
	Adequate buffers between the parking lane and cycle lane and the parking lane and travel lane cannot be provided within the existing road way unless on-street parking is removed or the kerb is modified, both of which are considered excessive [see note 2].				
	High speed cycling is not deterred through the provision of a cycle lane.				
	There is potential for conflict between drivers and car doors opening into the road way.				
	The cycle lane is unlikely to be used by cyclists due to the potential safety implications of the infrastructure.				
	Cyclists are placed within a confined space and cannot easily divert to avoid a potential collision.				
	Against best practice bicycle design				

Note 2: An additional 1100mm would be required in order to provide a cycle lane facility with an adequate width and buffer, as well as an adequate buffer between the parking and travel lanes. Main Roads WA approval is unlikely without the provision of a buffer. Refer to cross section 3b.



SECTION X - OPTION 3a: KS CYCLE LANE (NOT RECOMMENDED) **SCALE 1:50** 



SECTION X - OPTION 3b: KS CYCLE LANE WITH BUFFER (NOT RECOMMENDED) **SCALE 1:50** 

(	)	2.	.5	-	5	7	.5	1	0	12.	.5m
		~				~~~		~		~	
	SC	AL	E 1:	250	A	L OE	RIGI	NAL	. SI	ZE	



THIS DWG & DESIGN IS SUBJECT TO COPYRIGHT AND MAY NOT BE REPRODUCED WITHOUT PRIOR WRITTEN CONSENT, CONTRACTORS TO VERIFY ALL DIMENSIONS ON SITE BEFORE COMMENCING WORK. REPORT ALL DISCREPANCIES TO PROJECT MANAGER PRIOR TO CONSTRUCTION. FIGURED DIMENSIONS TO BE TAKEN IN PREFERENCE TO SCALED DRAWINGS. 15/01/2016 **DESIGN ITERATION 1** S.Wilson DATE REVISION DETAILS DWN APP.



COUNCIL HOUSE, 27-29 ST. GEORGE'S TERRACE, PERTH.

	DESIGNED	DRAWN
		S. Wilson
	TRAFFIC ENG.	DATE
	<del></del>	15/01/2016
SRI RANJAN - PRINCIPAL ENG,	PROJECT MGR.	SCALE
COORDINATION & DESIGN	G. Rodoreda	AS SHOWN
	SENIOR ENG.	CO-ORD SYS
	S Ranjan	MGA 50 / AHD
	DRAWING STATUS	

ERICA BARRENGER - MANAGER.

COORDINATION & DESIGN



### **MOUNT ST - WEST PERTH BICYCLE TREATMENT**

**OPTION 3 - NOT RECOMMENDED** KERB SIDE (KS) CYCLE LANE

DWG TYPE 16001 C - CO - 03 **ISSUED FOR INFORMATION** FOLDER: H:\CAD\1\_DR\1\_PUB\MOUNT\1 A3 CAD REF: 16001-MOUNT-CO-OPTION-3.dwg

REV.

### Mount Street Designated Locality - Proposed Parking Changes

