

Works and Urban Development Committee

Notice of Meeting
28 February 2017
5.30pm

Committee Room 1
Ninth Floor
Council House
27 St Georges Terrace, Perth



City of Perth

Agenda

ORDER OF BUSINESS AND INDEX

- 1 Declaration of Opening
- 2 Apologies and Members on Leave of Absence
- 3 Confirmation of minutes – 31 January 2017
- 4 Correspondence
- 5 Disclosure of Members' interests
- 6 Reports
 - 6.1 Minor Urban Interventions
 - 6.2 Tender 043-16/17 – Provision of Engineering Consultancy Services and Associated Professional Services
 - 6.3 Tender 093-16/17 Mclean Lane Enhancement Project Including Prefabricated Art Work Installation
 - 6.4 Tender 087-16/17 Perth Town Hall Bin Enclosure
- 7 Motions of which Previous Notice has been given
- 8 General Business
 - 8.1 - Responses to General Business from a Previous Meeting

- **Potential expansion of smoking prohibition in the City of Perth**

The Lord Mayor requested information regarding the enforcement of the City's current smoking prohibition in the Hay and Murray Street Malls, associated laneways and the potential expansion of the prohibition for the Cathedral Square public space.

The A/Director Planning and Development advises that the matter is being investigated by the Sustainability team and an update will be provided to the Works and Urban Development Committee when available.

- **Maintenance Request – Waste receptacles in the Roe Street Car Park**

The Lord Mayor advised that the waste receptacles located in the Roe Street Car Park are constantly overflowing and requested information on the possible installation of larger capacity receptacles.

The Director Construction and Maintenance advised that the matter is being investigated.

- **Maintenance Request – Flooring tiles in the Roe Street Car Park accessway**

The Lord Mayor advised that the current flooring tiles in the Roe Street Car Park accessway are in need of replacement.

The Director Construction and Maintenance advised the matter is being investigated.

- **Location of waste and recycling management on James Street**

The Lord Mayor requested information on the possible relocation of waste and recycling items from the front of various businesses on James Street to a centralised location in order to improve the street presentation.

The Director Construction and Maintenance advised that the matter will be investigated.

- **Issues with laneway (located near Target)**

At the Works and Urban Development Committee meeting held on 31 January 2017, Cr McEvoy advised that the private laneway (located near Target) has been subjected to graffiti vandalism again.

The Director Construction and Maintenance advises that the City's Street Presentation and Maintenance Graffiti (SPM) team has undertaken a site inspection of the laneway. It is noted that in addition to the walls that have graffiti damage, there are also two street art presentations that have been defaced (the one owned by the City has expired, and the other one is privately owned).

The Director Construction and Maintenance advises that in terms of the City's graffiti removal procedure, Officers can remove or paint out the graffiti to the extent of 10 linear metres from where it is visible at either end of the laneway and up to a height of 3 metres. In addition, the City can also remove graffiti if there is an entrance to a business.

The Street Presentation and Maintenance team is currently liaising with the Arts, Culture and Heritage team to resolve this matter in a cost efficient manner and updates will be provided to the Works and Urban Development Committee.

8.2 - New General Business

9 Items for consideration at a future meeting

Outstanding Reports:

Nil

10 Closure



ROBERT MIANICH
DIRECTOR CORPORATE SERVICES

23 FEBRUARY 2017

This meeting is not open to members of the public

WORKS AND URBAN DEVELOPMENT COMMITTEE

Established: 17 May 2005 (Members appointed 22 October 2015)

Members:	1st Deputy:	2nd Deputy:
Cr Limnios (Presiding Member)	Cr Harley	Cr Chen
The Lord Mayor		
Cr McEvoy		

Quorum: Two

Expiry: October 2017

TERMS OF REFERENCE: [Adopted OCM 24/11/15]

To oversee and make recommendations to the Council on matters related to:

1. works required to construct, upgrade and maintain streets, footpaths, thoroughfares and other public places, including streetscape upgrades, landscaping initiatives and directional signage and graffiti;
2. design, construction and upgrading of parks, reserves, recreational and civic amenities and facilities and Council owned buildings, excluding Council House, the Perth Town Hall, City of Perth Public Lending Library and the Perth Concert Hall;
3. oversight of the implementation of the Lighting Strategy;
4. waste management.

Agenda Minor Urban Interventions

Item 6.1

Recommendation:

That the Works and Urban Development Committee receives an update on the proposal for the Minor Urban Intervention project in Hay Street, West Perth.

FILE REFERENCE:	P1028995
REPORTING UNIT:	Co-ordination and Design
RESPONSIBLE DIRECTORATE:	Planning and Development
DATE:	16 February 2017
ATTACHMENT/S:	Attachment 6.1A – 2016/17 Minor Urban Intervention Proposal: West Perth

Legislation / Strategic Plan / Policy:

Legislation	N/A
Integrated Planning and Reporting Framework Implications	<p>Strategic Community Plan</p> <p>Council Four Year Priorities: Perth as a Capital City, Living in Perth</p> <p>S5 Increase place activation and use of underutilised space</p> <p>S9 Promote and facilitate CBD living</p>
Policy	
Policy No and Name:	N/A

Financial Implications:

ACCOUNT NO:	CW1992
BUDGETED AMOUNT:	\$150,000
AMOUNT SPENT TO DATE:	\$13,742
PROPOSED COST:	\$120,000
BALANCE REMAINING:	\$16,258
ANNUAL MAINTENANCE:	TBC
ESTIMATED WHOLE OF LIFE COST:	

All figures quoted in this report are exclusive of GST.

Purpose and Background:

Many cities around the world are using small interventions (imaginative, low cost, and quick time frame) to culturally enrich city spaces. In financial year 2013/14, the Works and Urban Development Committee agreed to a new program in the Capital Works budget for small urban interventions.

Since 2014 the following projects have been delivered under the program:

- Urban Lounge - William St, Northbridge;
- Chess Board - Lake St Northbridge;
- Outdoor Dining Room - Hay Street East; and
- Birdcage Seating - Murray Street East

These projects have been successful in encouraging people to engage in public life. They were executed in a short period of time and within budget.

Details:

2016/17 Minor Urban Intervention Proposal

Hay Street, between Colin and Outram Streets, West Perth is the proposed site for this year's Minor Urban Intervention. Given the high vacancy rates that West Perth is currently experiencing the City has a focus on engaging with this area and its stakeholders to deliver some new outcomes.

On the southern side of Hay Street, adjacent to the Heritage Listed Graham Flats, the footpath is wide and an avenue of large deciduous trees provides dense shade in summer and sun exposure in winter. There is an opportunity to enhance this space, support adjacent businesses and cafes and facilitate social interaction.

The proposal Attachment 6.1A is to provide seating and tables that:

- allow people to sit in groups as well as on their own;
- provide a reason to dwell; and
- reflect the linear architecture of the Graham Flats.

The design has been refined to ensure that it sits elegantly in the space. Materials such as polished concrete and anodised aluminium will provide robustness and longevity.

The use of materials such as timber and aluminium will be consistent with the City's standard street furniture range. Robust materials and anti-graffiti coatings will be used to ensure longevity and reduce maintenance.

In addition, this area of Hay Street has been identified as a site for the Lighting Strategy Implementation Plan project. This work will enhance the space at night and improve pedestrian safety.

Comments:

The Minor Urban Interventions has been a successful program which has helped to reinvigorate existing public spaces with low budget, quick win projects to support an evolving city.

A communications plan will be developed to ensure that all stakeholders are adequately notified of works and to deal with any specific needs during the works. The project will be completed by June 2017.



Perforated Light Element



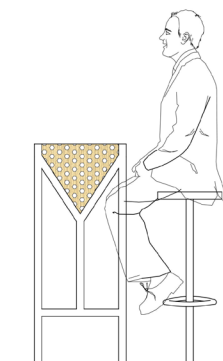
Brass and Terrazzo



Terrazzo



Wood Seating Element



High Table and Stool



Coffee Table and Seat

HAY STREET



* Table colour shown in imagery not indicative of final product



**Agenda Tender 043-16/17 – Provision of Engineering Consultancy
Item 6.2 Services and Associated Professional Services**

Recommendation:

That Council;

- 1. accepts the following tenders to form a panel of pre-qualified suppliers in various disciplines, for the provision of various engineering consultancy services and associated professional services (Tender No 043-16/17) commencing from 15 March 2017 for a period of three years with an option to extend for two years, based on the tendered rates in the attached as Confidential Attachment 6. 2A and subject to annual CPI Increases:***

Civil Engineering

- 1.1 Parsons Brinckerhoff Australia Pty Ltd;***
- 1.2 GHD Pty Ltd;***
- 1.3 BG & E Pty Ltd;***

Environmental Engineering

- 1.4 GHD Pty Ltd;***
- 1.5 SMEC Australia Pty Ltd;***
- 1.6 360 Environmental Pty Ltd;***

Fire Engineering

- 1.7 Arup Pty Ltd;***
- 1.8 GHD Pty Ltd;***
- 1.9 Parsons Brinckerhoff Australia Pty Ltd;***

Geotechnical Engineering

- 1.10 Douglas Partners Pty Ltd;***
- 1.11 Aurecon Australasia Pty Ltd;***
- 1.12 CMW Geosciences Pty Ltd;***

Hydraulic Engineering

- 1.13 Arup Pty Ltd;***
- 1.14 Cardno Pty Ltd;***
- 1.15 Wood & Grieve Engineers Limited;***

Lift Engineering

- 1.16 Parsons Brinckerhoff Australia Pty Ltd;***
- 1.17 NDY Management Pty Ltd;***
- 1.18 Wood & Grieve Engineers Limited;***

(Cont'd)

Lighting & Electrical Engineering

- 1.19 Engineering Technology Consultants Pty Ltd;**
- 1.20 Sage Consulting Engineers Pty Ltd;**
- 1.21 LVX Installation & Maintenance Pty Ltd;**

Marine Engineering

- 1.22 MP Rogers & Associates Pty Ltd;**
- 1.23 GHD Pty Ltd;**
- 1.24 SMEC Australia Pty Ltd;**

Mechanical Engineering

- 1.25 Arup Pty Ltd;**
- 1.26 GHD Pty Ltd;**
- 1.27 Parsons Brinckerhoff Australia Pty Ltd;**

Structural Engineering

- 1.28 BG & E Pty Ltd;**
- 1.29 Wood & Grieve Engineers Limited;**
- 1.30 McDowell Affleck Pty Ltd;**

Project Management Services

- 1.31 Setu Infratech Pty Ltd;**
- 1.32 Savills Project Management Pty Ltd;**
- 1.33 Project Directors Australia Pty Ltd;**

Quantity Surveying

- 1.34 Ralph & Beattie Bosworth Pty Ltd;**
- 1.35 Rider Levett Bucknall WA Pty Ltd;**
- 1.36 McGarry Associates Pty Ltd;**

Asbestos Consultant

- 1.37 Western Environmental Pty Ltd;**
- 1.38 Cardno Pty Ltd;**
- 1.39 360 Environmental Pty Ltd;**

Universal Access Consultant

- 1.40 Elite Compliance Pty Ltd;**
- 1.41 SMEC Australia Pty Ltd;**
- 1.42 KPMG Australian Services Pty Ltd;**

Landscape Architectural and Urban Services

- 1.43 Place Laboratory Pty Ltd;**
- 1.44 Blackwell & Associates Pty Ltd;**
- 1.45 Cardno Pty Ltd;**

(Cont'd)

Architectural Services**1.46 MPS Architects;****1.47 Hames Sharley (WA) Pty Ltd; and****1.48 Cox Howlett & Bailey Woodland.**

- 2. notes that the engagement of a panel member for specific projects will be in accordance with City of Perth Policies and Procedures;**
- 3. notes that expenditure in part 1 above, be charged to various budget items as part of specific projects and programmes on an 'as needs' basis.**

FILE REFERENCE:	P1033618
REPORTING UNIT:	Construction
RESPONSIBLE DIRECTORATE:	Construction and Maintenance
DATE:	23 February 2017
ATTACHMENT/S:	Confidential Attachment 6.2A – Schedule of Rates Confidential Attachment 6.2B – Tender Assessment Matrix (Confidential Attachments distributed under separate cover to Elected Members)

Legislation / Strategic Plan / Policy:

Legislation	<i>Local Government (Functions & General Regulations) 1996</i> Part 4-Tenders for Providing Goods and Services
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Integrated Planning and Reporting Framework Implications	Strategic Community Plan Council Four Year Priorities: S9 Promote and facilitate CBD living
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Policy	
Policy No and Name:	9.7-Purchasing

Financial Implications:

Engineering Consultancy Services and Professional Services will be requested on a project-by-project basis and funded by each specific operating or Capital Works project.

Purpose and Background:

On 7 September 2016 suitably qualified companies were invited to submit tenders to form a panel of pre-qualified suppliers for the provision of engineering consultancy and associated professional services. The tender is based on a schedule of rates for various operating requirements and capital works. Tendering for these services will ensure future projects are adequately resourced in a timely manner.

The current engineering consultancy contract expired on September 2016. In the interim the City has sought three quotes in accordance with legislation before awarding consultancy works. This remains an alternative option to use of the panel for the procurement of consultancy services.

Details:

At the close of tender on 29 September 2016 a total of 78 submissions were received across the following disciplines:

Discipline	Number
Civil Engineering	23
Environmental Engineering	10
Fire Engineering	14
Geotechnical Engineering	15
Hydraulic Engineering	17
Lift Engineering	4
Lighting and Electrical Engineering	21
Marine Engineering	10
Mechanical Engineering	12
Structural Engineering	22
Traffic & Transportation Engineering	14
Project Management Services	18
Quantity Surveying	5
Asbestos Consultant	8
Universal Access Consultant	3
BCA Compliance Consultant	5
Safety in Design Auditors (CPTED)	2
Landscape Architectural and Urban Services	11
Architectural Services	10
TOTAL	224

Qualitative Criteria

The submitted tenders were assessed by the Tender Assessment Panel against the following qualitative criteria:

- Relevant experience of Company and Personnel;
- Company profile including Quality Management System;
- Tenderer's Resources; and
- Submitted Rates.

Particular emphasis was placed on past performance of short listed companies and relevant experience to ensure companies had the level of skills and knowledge required to undertake City projects.

Qualitative Ranking

The quality of the submissions varied substantially. Submissions which scored the highest against the criteria were then ranked. Given the volume of the submissions only those within the top three are shown below:

Civil Engineering:

Tenderer
Parsons Brinckerhoff Australia Pty Ltd
GHD Pty Ltd
BG& E Pty Ltd

Environmental Engineering:

Tenderer
GHD Pty Ltd
SMEC Australia Pty Ltd
360 Environmental Pty Ltd

Fire Engineering

Tenderer
Arup Pty Ltd
GHD Pty Ltd
Parsons Brinckerhoff Australia Pty Ltd

Geotechnical | Engineering:

Tenderer
Douglas Partners Pty Ltd
Aurecon Australasia Pty Ltd
CMW Geosciences Pty Ltd

Hydraulic Engineering:

Tenderer
Arup Pty Ltd
Cardno Pty Ltd
Wood & Grieve Engineers Limited

Lift Engineering:

Tenderer
Parsons Brinckerhoff Australia Pty Ltd
NDY Management Pty Ltd
Wood & Grieve Engineers Limited

Lighting and Electrical Engineering:

Tenderer
Engineering Technology Consultants Pty Ltd
Sage Consulting Engineers Pty Ltd
LVX Installation & Maintenance Pty Ltd

Marine Engineering:

Tenderer
MP Rogers & Associate Pty Ltd
GHD Pty Ltd
SMEC Australia Pty Ltd

Mechanical Engineering:

Tenderer
Arup Pty Ltd
GHD Pty Ltd
Parsons Brinckerhoff Australia Pty Ltd

Structural Engineering:

Tenderer
BG &E Pty Ltd
Wood &Grieve Engineers Limited
McDowell Affleck Pty Ltd

Project Management Services:

Tenderer
Setu Infratech Pty Ltd
Savills Project Management Pty Ltd
Project Directors Australia Pty Ltd

Quantity Surveying:

Tenderer
Ralph & Beattie Bosworth Pty Ltd
Rider Levett Bucknall WA Pty Ltd
Mc Garry Associates Pty Ltd

Asbestos Consultant:

Tenderer
Western Environmental Pty Ltd
Cardno Pty Ltd
360 Environmental Pty Ltd

Universal Access Audit

Tenderer
Elite Compliance Pty Ltd
SMEC Australia Pty Ltd
KPMG Australian Services Pty Ltd

Landscape Architectural and Urban Services:

Tenderer
Place Laboratory Pty Ltd
Blackwell & Associates Pty Ltd
Cardno Pty Ltd

Architectural Services:

Tenderer
MPS Architects
Hames Sharley (WA) Pty Ltd
Cox Howlett & Bailey Woodland

The above ranked tenderers in each discipline are therefore recommended to form the panel for the provision of engineering consultancy services.

Minimum requirements for Panel arrangement:

Council Policy 9.7 – Purchasing requires a minimum of three panel members in each discipline to enable creation of the panel.

It is proposed to reject tenders for the above two disciplines.

- Play Ground Safety Auditor; and
- Safety in Design Auditors (CPTED).

As fewer than three submissions were received.

A number of panels were adjudged to not meet the City's requirements and it is therefore not recommended to appoint any tenderers to these panels:

- Building Compliance Audit;
- Transport Audit;
- Transport Engineering;
- Transport Modelling; and
- Transport Planning.

Panel Operation

For each individual project, a Contract is to be established between the City and the successful consultant through a request for quotation. The City reserves the right not to accept the lowest prices against each quotation. The successful Consultant will be engaged under AS 4122-2010 (General Conditions of Contract for Consultants) unless otherwise specified in the request for Quotation. The AS 4122 Conditions of Contract provides a Clause where the City retains appropriate control of Intellectual Property created under the commission as required.

The panel arrangement does have the following limitations:

- The value of each project engagement commissioned under this arrangement will generally be limited to a maximum fee value of \$ 500,000 excluding GST;
- The duration of any project consultancy under this arrangement will not exceed 12 months from the date of the engagement; and
- It should be noted that the above ranking does not provide any guarantee that panel members will be contacted in a specific order when future consultancy services are being sought for specific projects.

Comments:

Value for Money Assessment

Civil Engineering

Parsons Brinckerhoff Australia Pty Ltd

Parsons Brinckerhoff Australia Pty Ltd provided a thorough submission addressing all the selection criteria. The organisation has demonstrated its capability to undertake complex Civil design projects.

It has major clients such as Clough Engineering, Main Roads Western Australia, Department of Housing, Public Transport Authority, Department of Transport.

The company currently has experienced engineers and technicians based in Perth.

The organisation's Quality Management System is certified to ISO 9001:2008. It has also attained certification in ISO 14001, AS 4801 and OHSAS 18001

The submitted rates are reasonable with no mark up for relevant material costs.

Parsons Brinckerhoff Australia Pty Ltd is ranked number one in the qualitative selection criteria.

GHD Pty Ltd

GHD Pty Ltd addressed all the criteria adequately. The company has recently completed projects for various local authorities' civil engineering projects. The organisation has demonstrated vast experience in undertaking projects for Main Roads Western Australia, Department of Transport, Landcorp etc. It has sufficient qualified and experienced personnel for civil consultancy.

Their Quality Management System is certified to ISO 9001:2008.

The submitted rates are reasonable with a 10% mark up for relevant material costs.

GHD Pty Ltd is ranked number two in the qualitative selection criteria.

BG&E Pty Ltd

BG&E provided a submission addressing all the selection criteria. The company has successfully completed a number of major projects within the City that illustrated its capability in design within complex environment. BG&E Pty Limited has adequate experienced staff to handle City's works.

The organisation's Quality Management System is certified to ISO 9001:2008.

The submitted rates are reasonable with a 10% mark up for relevant material costs.

BG&E Pty Limited is ranked number three in the qualitative selection criteria.

Environmental Engineering

GHD Pty Ltd

GHD Pty Ltd's submission addressed all the selection criteria. They have completed numerous environmental projects for local authority and the statutory agencies.

GHD Pty Ltd currently has skilled and experience staff based in Perth.

Their Quality Management System is certified to ISO 9001:1994. The submitted rates are reasonable with a nil mark up for relevant material costs.

GHD is ranked number one in the qualitative selection criteria.

SMEC Australia Pty Ltd

SMEC provided a submission addressing all the selection criteria.

They have completed large environmental projects for local authorities and statutory agencies.

They have experience in stakeholder management.

Their Quality Management System is certified to ISO 9001:2008. In addition, their Environmental, Occupational Health and Safety management plan are also certified.

The submitted rates are reasonable with a 2.5% mark up for relevant material costs.

SMEC is ranked number two in the qualitative selection criteria.

360 Environmental Pty Ltd

The 360 Environmental Pty Ltd submission addressed all the criteria adequately. They have completed a number of environmental projects for local authorities and other agencies.

360 Environmental Pty Ltd currently has skilled and experience staff based in Perth.

Their Quality Management System is certified to ISO 9001:2001. The submitted rates are 360 Environmental Pty Ltd is ranked No. 3 in the qualitative selection criteria.

The submitted rates are reasonable with a 15% mark up for relevant material costs.

360 Environmental Pty Ltd is ranked number three in the qualitative selection criteria.

Fire Engineering

Arup Pty Ltd

Arup Pty Ltd provided a submission that comprehensively addressed all the selection criteria.

They are multi-disciplined consulting engineers and associated professionals operating in Perth. They have undertaken projects of all types and sizes from feasibility studies to contract administration and post construction services and have demonstrated their experience in undertaking works in the public realm.

The support resources personnel also hold suitable qualifications and professional associations.

Arup Pty Ltd maintains a certified Quality Management System to ISO 9001:2008 and has a platinum certificate from Worksafe WA for health and safety.

The submitted rates are reasonable with no mark up for relevant material costs.

Arup Pty Ltd is ranked number one in the qualitative selection criteria.

GHD Pty Ltd

GHD Pty Ltd provided a submission that addressed all the selection criteria. They are a global company with a local team of multi-disciplined professionals. They have demonstrated their experience in undertaking fire consultancy services for various government and local government entities including the City of Perth.

GHD Pty Ltd maintains a certified Quality Management System to ISO 9001:2008 and submitted reasonable rates with no mark up for relevant material costs.

GHD Pty Ltd is ranked number two in the qualitative selection criteria.

Parsons Brinckerhoff Australia Pty Ltd

Parsons Brinckerhoff Australia Pty Ltd provided a submission that addressed all the selection criteria. They are a global company with a local team of over 150 multi-disciplined technical experts and strategic advisors.

They have demonstrated their experience in undertaking fire consultancy services for projects of various scales and complexities, and within the Perth CBD.

Parsons Brinckerhoff Australia maintains a certified Quality Management System to ISO 9001:2008 and submitted reasonable rates with no mark up for relevant material costs.

Parsons Brinckerhoff Australia Pty Ltd is ranked number three in the qualitative selection criteria.

Geotechnical Engineering

Douglas Partners Pty Ltd

Douglas Partners Pty Ltd provided a thorough submission addressing all the selection criteria. They have demonstrated the ability to perform different tasks within the geotechnical discipline including stakeholder engagement.

Their Quality Management System is certified to ISO 9001:2008. The submitted rates are reasonable with a 10% mark up for relevant material costs.

Douglas Partners Pty Ltd is ranked number one in the qualitative selection criteria.

Aurecon Australasia Pty Ltd

Aurecon Australasia Pty Ltd addressed all the criteria adequately. They have completed geotechnical projects for building, pavements and marine structures as well as demonstrated experience in stakeholder engagement.

Their Quality Management System is certified to ISO 9001:2008. The submitted rates are reasonable even with a 12.5% mark up for relevant material costs.

Aurecon Australasia Pty Ltd is ranked number two in the qualitative selection criteria.

CMW Geosciences Pty Ltd

CMW Geosciences Pty Ltd provided a submission addressing many geotechnical projects that have been undertaken by the company including stakeholder engagements.

Their Quality Management System is certified to ISO 9001:2008. The submitted rates are reasonable with a 5% mark up for relevant material costs.

CMW Geosciences Pty Ltd is ranked number three in the qualitative selection criteria.

Hydraulic Engineering

Arup Pty Ltd

Arup Pty Ltd provided a thorough submission addressing all the selection criteria. They have completed numerous local shopping centres for private developers. In addition, they have undertaken several restoration works to public facilities for government organisations and refurbishment works for private entities. Arup's Quality Management System is certified to ISO 9001:2008. It has also attained certification in ISO 14001, AS 4801 and OHSAS 18001. The submitted rates are reasonable with no mark up for relevant material costs. Arup Pty Ltd is ranked number one in the qualitative selection criteria.

Cardno Pty Ltd

Cardno Pty Ltd addressed all the criteria adequately. They have completed projects in water sensitive urban design, drainage network assessment using 1D/2D hydraulic modelling and infrastructure capacity assessment. They are currently delivering integrated, holistic water management strategies for local councils and private developers. Cardno Pty Ltd is based in Perth and has sufficient qualified and experienced personnel for hydraulic consultancy. Their Quality Management System is certified to ISO 9001:2008. The submitted rates are reasonable with a 10% mark up for relevant material costs. Cardno Pty Ltd is ranked number two in the qualitative selection criteria.

Wood and Grieve Engineers Limited

Wood and Grieve Engineers Limited provided a submission addressing all the selection criteria. The majority of Wood and Grieve's Engineers experience is gained through completing Metropolitan Redevelopment Authority's projects. Their Quality Management System is certified to ISO 9001:2008. The submitted rates are on the high side with a 10% mark up for relevant material costs. Wood and Grieve Engineers Ltd is ranked number three in the qualitative selection criteria.

Lift Engineering

Parsons Brinckerhoff Australia Pty Ltd

Parsons Brinckerhoff Australia Pty Ltd provided a submission that addressed all the selection criteria. They are a global company with a local team of over 150 multi-disciplined technical experts and strategic advisors. They have demonstrated their experience in undertaking lift engineering services for projects of various scales and complexities, and within the Perth CBD. Parsons Brinckerhoff Australia Pty Ltd maintains a certified Quality Management System to ISO 9001:2008 and submitted reasonable rates with no mark up for relevant material costs. Parsons Brinckerhoff Australia Pty Ltd is ranked number one in the qualitative selection criteria.

NDY Management Pty Ltd

NDY Management Pty Ltd provided a submission that addressed all the selection criteria. They are an employee owned Australian business with offices throughout Australia, New

Zealand, Canada, United Arab Emirates and the United Kingdom. They have over 50 years' experience in providing consulting engineering services in Western Australia.

NDY Management Pty Ltd have demonstrated their experience in undertaking lift engineering services for projects of various scales and complexities, in private and public sectors and within the Perth CBD.

NDY Management Pty Ltd maintains a certified Quality Management System to ISO 9001:2008 and submitted rates with a 10% mark up for relevant material costs.

NDY Management Pty Ltd is ranked number two in the qualitative selection criteria.

Wood & Grieve Engineers Limited

Wood & Grieve Engineers Limited provided a submission that addressed all the selection criteria. They are an award-winning company based in Australia and serving a global market place. They have over 50 years' experience in providing consulting engineering services in Western Australia.

Wood & Grieve Engineers Limited have demonstrated their experience in undertaking lift engineering services for projects of various scales and complexities, in private and public sectors and within the Perth CBD.

Wood & Grieve Engineers Limited maintains a certified Quality Management System to ISO 9001:2008 and submitted rates with a 10% mark up for relevant material costs.

Wood & Grieve Engineers Limited is ranked number three in the qualitative selection criteria.

Lighting and Electrical Engineering

Engineering Technology Consultants Pty Ltd (ETC)

ETC provided a submission that comprehensively addressed all the selection criteria. They are a small team of electrical engineers that have been operating since 1976, the company has a long and stable history providing service to both Government and Private Sectors with experience in working with the City of Perth and in delivering similar works from other local government projects. .

They have demonstrated experience in electrical and lighting projects of various scale and complexity, that range from road and street lighting to buildings and electrical infrastructure including CCTV Security/surveillance and multimedia services.

ETC maintains a certified Quality Management System to ISO 9001:

The submitted rates are reasonable with a 7.5% mark up for relevant material costs.

ETC is ranked number one in the qualitative selection criteria.

Sage Consulting Engineer Pty Ltd.

Sage Consulting Engineers Pty Ltd provided a submission that addressed all the selection criteria. They have demonstrated their experience in undertaking various projects involving auditing, planning, design, documentation and superintendence of local government lighting and electrical engineering projects.

The proposed project team comprises of qualified electrical engineer, electricians and suitable qualification for lighting designs with extensive experience in street lighting designs of varying complexity.

Sage Consulting Engineers Pty Ltd maintains a certified Quality Management System to ISO 9001:2008 and submitted reasonable rates with no mark up for relevant material costs.

Sage Consulting Engineers Pty Ltd is ranked number two in the qualitative selection criteria.

LVX Installation & Maintenance Pty Ltd

LVX Installation & Maintenance Pty Ltd provided a submission that addressed all the selection criteria. They are a small business with 12 core team members. LVX has a pool of qualified, formally accredited sub-consultants, (“LVX engineering Solutions Partners”) that are drawn upon as required to complete electrical infrastructure projects as required.

They have demonstrated their experience in undertaking electrical and lighting engineering services for projects of various scales and complexities that are relative to local government projects.

LVX Installation & Maintenance Pty Ltd maintains a certified Quality Management System to ISO 9001:2008 and submitted rates with a 15% mark up for relevant material costs.

LVX Installation & Maintenance Pty Ltd is ranked number three in the qualitative selection criteria.

Marine Engineering

MP Rogers & Associates Pty Ltd

MP Rogers & Associates Pty Ltd provided a thorough submission addressing all the selection criteria. They have completed numerous river wall projects along the Swan River for local councils in the metropolitan area as well as Main Roads WA and Department of Parks and Wildlife. In addition to marine works, they have also completed studies and modelling of the Swan River. MP Rogers & Associates Pty Ltd is currently the consultant for the repairs of the river walls at Mardalup Park for the City of Perth.

MP Rogers & Associates Pty Ltd currently has 12 highly skilled and experience coastal engineers based in Perth. The four Principal Engineers have more than 10 years’ experience in marine engineering.

Their Quality Management System is certified to ISO 9001:1994. The submitted rates are reasonable with a 10% mark up for relevant material costs.

MP Rogers & Associates Pty Ltd is ranked number one in the qualitative selection criteria.

GHD Pty Ltd

GHD Pty Ltd addressed all the criteria adequately. They have completed a few projects along the Swan River for local councils and Department of Transport. GHD Pty Ltd is based in Perth and has proposed 10 personnel for the marine consultancy.

Their Quality Management System is certified to ISO 9001:2001. The submitted rates are reasonable with a no mark up for relevant material costs.

GHD Pty Ltd is ranked number two in the qualitative selection criteria.

SMEC Australia Pty Ltd

SMEC Australia Pty Ltd provided a submission addressing all the selection criteria. The majority of SMEC’s experience is in ports and jetties in regional areas with no evidence of any projects in the Swan River. The lead marine engineer has more than 10 years of experience supported by five marine engineers.

Their Quality Management System is certified to ISO 9001:2008. In addition, their Environmental, Occupational Health and Safety management plan are also certified.

The submitted rates are reasonable with a 2.5% mark up for relevant material costs.

SMEC Australia Pty Ltd is ranked number three in the qualitative selection criteria.

Mechanical Engineering

Arup Pty Ltd

Arup Pty Ltd provided a submission that comprehensively addressed all the selection criteria. They are multi-disciplined consulting engineers and associated professionals operating in Perth. They have demonstrated experience in mechanical projects of various scale and complexity, and ranging from City buildings to airports to health campuses.

The project director and panel contact is degree qualified and has 14 years' experience working on a variety of projects from large scale commercial office design to large infrastructure projects. The resources personnel hold degree qualifications in mechanical engineering and have suitable mechanical project experience.

Arup Pty Ltd maintains a certified Quality Management System to ISO 9001:2008 and has a platinum certificate from Worksafe WA for health and safety.

The submitted rates are reasonable with no mark up for relevant material costs.

Arup Pty Ltd is ranked number one in the qualitative selection criteria.

GHD Pty Ltd

GHD Pty Ltd provided a submission that addressed all the selection criteria. They are a global company with a local team of multi-disciplined professionals. They have demonstrated their experience in undertaking fire consultancy services for various government and local government entities including the City of Perth.

GHD Pty Ltd maintains a certified Quality Management System to ISO 9001:2008 and submitted reasonable rates with no mark up for relevant material costs.

GHD Pty Ltd is ranked number two in the qualitative selection criteria.

Parsons Brinckerhoff Australia Pty Ltd

Parsons Brinckerhoff Australia Pty Ltd provided a submission that addressed all the selection criteria. They are a global company with a local team of over 150 multi-disciplined technical experts and strategic advisors.

They have demonstrated their experience in undertaking mechanical engineering services for projects of various scales and complexities and within the Perth CBD.

Parsons Brinckerhoff Australia Pty Ltd maintains a certified Quality Management System to ISO 9001:2008 and submitted reasonable rates with no mark up for relevant material costs.

Parsons Brinckerhoff Australia Pty Ltd is ranked number three in the qualitative selection criteria.

Structural Engineering

BG&E Pty Ltd

BG&E Pty Ltd provided a submission addressing all the selection criteria. The company has successfully completed a number of major projects within the City that illustrated its capability in structural design within complex environment. Its clients include Leighton Properties Pty Ltd, Broad Civil, Metropolitan Redevelopment Authority and Crown Perth which have sizeable projects complicated in nature. It has adequate experienced staff to handle current and future works.

The organisation's Quality Management System is certified to ISO 9001:2008.

The submitted rates are reasonable with a 10% mark up for relevant material costs.

BG&E Pty Ltd is ranked number one in the qualitative selection criteria.

Wood & Grieve Engineers Limited

Wood & Grieve Engineers Limited provided a thorough submission addressing all the selection criteria. The company has successfully completed a few structural designs for the City of Perth.

The company currently has experienced structural engineers based in Perth. The Principal Engineers have wide experience in structural engineering design.

The organisation's Quality Management System is certified to ISO 9001:2008. It has also attained certification in ISO 14001, AS 4801 and OHSAS 18001

The submitted rates are reasonable with a 10% mark up for relevant material costs.

Wood & Grieve Engineers Limited is ranked number two in the qualitative selection criteria.

McDowell Affleck Pty Ltd

McDowell Affleck Pty Ltd addressed all the criteria adequately. The company has recently completed infrastructural structural projects for various local authorities and other state agencies including Structural audits.

They have sufficient qualified and experienced personnel for Structural engineering consultancy.

Their Quality Management System is certified to ISO 9001:2008.

The submitted rates are reasonable with no mark up for relevant material costs.

McDowell Affleck Pty Ltd is ranked number three in the qualitative selection criteria.

Project Management Services

Setu Infratech Pty Ltd

Setu Infratech Pty Ltd provided a submission addressing all the selection criteria. The company has successfully completed a number of projects that illustrated its capability in project planning, interface management and coordination, safety planning and risk management within complex environment. Its clients include Curtin University and the City of Perth and Elizabeth Quay which have sizeable projects complicated in nature. It has adequate experienced staff to handle current and future works.

The organisation's Quality Management System is certified to ISO 9001:2008.

The submitted rates are reasonable with a 15% mark up for relevant material costs.

Setu Infratech Pty Ltd is ranked number one in the qualitative selection criteria.

Savills Project Management Pty Ltd

Savills Project Management Pty Ltd provided a thorough submission addressing all the selection criteria. The company has successfully completed a few projects within the City of Perth Precinct.

The company currently has experienced project managers based in Perth.

The organisation's Quality Management System is certified to ISO 9001:2008. It has also attained certification in ISO 14001, AS 4801 and OHSAS 18001

The submitted rates are reasonable with a 10% mark up for relevant material costs.

Savills Project Management Pty Ltd is ranked number two in the qualitative selection criteria.

Project Directors Australia Pty Ltd

Project Directors Australia Pty Ltd addressed all the criteria adequately. The company has recently project managed structural infrastructure projects for state agencies, university and hospital.

They have sufficient qualified and experienced personnel for Project Management.

Their Quality Management System is certified to ISO 9001:2008.

The submitted rates are reasonable with a 10% mark up for relevant material costs.

Project Directors Australia Pty Ltd is ranked number three in the qualitative selection criteria.

Quantity SurveyingRalph & Beattie Bosworth Pty Ltd

Ralph & Beattie Bosworth Pty Ltd addressed all the criteria adequately. They have completed numerous Civil Infrastructure projects for local authority and the state agencies.

Ralph & Beattie Bosworth Pty Ltd currently has skilled and experience staff based in Perth.

Their Quality Management System is certified to ISO 9001:1994. The submitted rates are reasonable with no mark up for relevant material costs.

Ralph & Beattie Bosworth Pty Ltd is ranked one in the Quantity Surveying panel.

Rider Levett Bucknall WA Pty Ltd

Rider Levett Bucknall WA Pty Ltd addressed all the criteria adequately. They have completed a few projects for local authorities and other agencies.

Rider Levett Bucknall WA Pty Ltd currently has skilled and experience staff based in Perth.

Their Quality Management System is certified to ISO 9001:2001. The submitted rates are reasonable with no mark up for relevant material costs.

Rider Levett Bucknall WA Pty Ltd is ranked number two in the in the Quantity Surveying panel and very close to Ralph & Beattie Bosworth Pty Ltd.

McGarry Associates Pty Ltd (MGA)

MGA provided a submission addressing all the selection criteria.

Their Quality Management System is certified to ISO 9001:2008. In addition, their Environmental, Occupational Health and Safety management plan is also certified.

The submitted rates are reasonable with no mark up for relevant material costs.

MGA is ranked number three in the Quantity Surveying panel.

Asbestos ConsultantWestern Environmental Pty Ltd

Western Environmental Pty Ltd provided a comprehensive submission that addressed all the selection criteria. The company is a specialist environmental consultancy based in Western Australia. They have demonstrated experience in contamination assessment and asbestos remediation works throughout the state.

The allocated resource personnel are also degree qualified professionals.

Western Environmental Pty Ltd maintains an internal Quality Management System.

The submitted rates are the most reasonable with a 7.5% mark up for relevant material costs.

Western Environmental Pty Ltd is ranked number one in the quantity surveying panel.

Cardno Pty Ltd

Cardno Pty Ltd provided a submission that addressed all the selection criteria. The company is a multidisciplinary consulting group based in West Perth. They have demonstrated experience in contaminated sites assessment and management works throughout the state. The environmental engineer and panel contact for the asbestos consultancy is degree qualified and has suitable asbestos certification. The support resources personnel also hold suitable qualifications and certification.

Cardno Pty Ltd operates a Quality Management System that complies with the requirements of ISO 9001:2008.

The submitted rates are the most reasonable with a 10% mark up for relevant material costs. Cardno Pty Ltd is ranked number two in the qualitative selection criteria.

360 Environmental Pty Ltd

360 Environmental Pty Ltd provided a submission that addressed all the selection criteria. The locally-owned company specialises in environmental consulting and consists of a team of over 40 scientists, engineers and technical specialists. They have demonstrated experience in contaminated sites assessment and management works throughout the state. The resources personnel also hold suitable qualifications and certification.

360 Environmental Pty Ltd maintains an internal Quality Management System.

The submitted rates are reasonable with a 15% mark up for relevant material costs.

360 Environmental Pty Ltd is ranked number three in the qualitative selection criteria.

Universal Access Consultant

Elite Compliance Pty Ltd

Elite Compliance Pty Ltd's submission addressed all the selection criteria. They have completed numerous Universal Access audits for civil infrastructure projects & buildings for local authorities and statutory agencies.

Elite Compliance Pty Ltd currently has skilled and experience staff based in Perth.

Their Quality Management System is certified to ISO 9001:1994.

Elite Compliance Pty Ltd ranked number one in the qualitative selection criteria.

The submitted rates are reasonable with a 5% mark up for relevant material costs.

SMEC Australia Pty Ltd

SMEC Australia Pty Ltd provided a submission addressing all the selection criteria.

Their Quality Management System is certified to ISO 9001:2008. In addition, their Environmental, Occupational Health and Safety management plan are also certified.

The submitted rates are reasonable with a 2.5% mark up for relevant material costs.

KPMG Australian Services Pty Ltd

KPMG Australian Services Pty Ltd addressed all the criteria adequately. They have completed a number of access audits for buildings and other civil projects for local authorities and other agencies.

KPMG Australian Services Pty Ltd currently has skilled and experience staff based in Perth.

Their Quality Management System is certified to ISO 9001:2001.

The submitted rates are reasonable with a 8% mark up for relevant material costs.

Landscape Architectural and Urban Services

Place Laboratory Pty Ltd

Place Laboratory Pty Ltd provided a thorough submission addressing all the selection criteria. They have completed numerous projects within the City of Perth including in Kings Square, Yagan Square and the Perth Cultural Centre. They have extensive experience working for MRA, Local and State Government. They have experience working with the City of Perth on a few small scale projects.

Place Laboratory Pty Ltd has a custom made Quality Assurance System.

The submitted rates are very reasonable with no mark up for relevant material costs.

Place Laboratory Pty Ltd is ranked number one in the qualitative selection criteria.

Blackwell & Associates Pty Ltd

Blackwell & Associates Pty Ltd addressed all the criteria adequately. While they mainly have suburban experience they have a very broad range of skills which would be relevant to City projects. They are a medium sized design practice that is well resourced.

Blackwell & Associates Pty Ltd uses a process that is planned and developed to meet the requirements of AS/NZS 9001 & ISO 9004.

The submitted rates are reasonable with a 10% mark up for relevant material costs.

Blackwell & Associates Pty Ltd is ranked number two in the qualitative selection criteria.

Cardno Pty Ltd

Cardno Pty Ltd provided a submission addressing all the selection criteria. Cardno Pty Ltd have extensive experience working on Local Government projects. They are a small sized design practice that is well resourced by a larger multi-disciplinary team.

They have a third party accreditation system which meets the ISO 9001:2008.

The submitted rates are reasonable with a 10% mark up for relevant material costs.

Cardno Pty Ltd is ranked number three in the qualitative selection criteria.

Architectural Services

MPS Architects

MPS Architects provided a submission that comprehensively addressed the selection criteria. They are a small to medium architectural practice, with ISO 9001:2000 quality systems accreditation. The principal and nominated panel contact is a registered architect and has over 33 years' experience as an architect. Additionally, the support resources nominated possess relevant qualifications in their area of expertise.

MPS Architects have undertaken a diverse range of projects in the local government, corporate and private realm including architectural design, documenting and contract administration.

MPS Architects provided the best schedule of rates and is ranked number one in the qualitative selection criteria and no mark up for relevant material costs.

Hames Sharley (WA) Pty Ltd

The Hames Sharley (WA) Pty Ltd submission provided a satisfactory address of the selection criteria.

They are a national architectural practice with a fully accredited and integrated management system that is to ISO certification. Hames Sharley (WA) Pty Ltd has extensive experience in providing a diverse range of services such as urban design, landscape architecture, planning, interior design and architecture. In addition to this, they have received various national and state awards for their work.

The submitted rates are reasonable with a 10% mark up for relevant material costs.

Hames Sharley (WA) Pty Ltd is ranked number two in the qualitative selection criteria.

Cox Howlett & Bailey Woodland

Cox Howlett & Bailey Woodland provided a comprehensive submission that addressed all the selection criteria.

The practice is the Perth-based studio of the national Cox Architecture company, offering the primary services of architecture, planning, urban design and interior design. Their submission detailed their extensive experience in all fields of architecture, including projects in the public realm, civic buildings and infrastructure.

Their Quality Management System is certified to ISO 9001:2008 and they have won many national awards for design excellence.

The nominated panel contact and current Director is a registered architect whose expertise is in the design, documentation and contract administration of complex public and commercial buildings.

The submitted rates are reasonable with a no mark up for relevant material costs.

Cox Howlett & Bailey Woodland is ranked number three in the qualitative selection criteria.

CONFIDENTIAL SCHEDULE 6.2A & 6.2B
ITEM 6.2 – TENDER 043-16/17 – PROVISION OF ENGINEERING
CONSULTANCY SERVICES AND ASSOCIATED PROFESSIONAL
SERVICES

FOR THE WORKS AND URBAN DEVELOPMENT COMMITTEE
MEETING

28 FEBRUARY 2017

DISTRIBUTED TO ELECTED MEMBERS UNDER SEPARATE COVER

Purpose and Background:

McLean Lane is to be upgraded as part of the City Of Perth's Laneways Upgrade Program to create inviting public spaces and promote small business development.

This tender consists of upgrades to road surfacing and stormwater drainage together with preparation for wall artwork and installation of prefabricated artwork lighting.

This project will activate the ground floor of adjacent buildings, and enhance the aesthetic outlook of the laneway to stimulate the night-time economy and increase private investment within the eastern precinct of the city.

Separable Portion One consists of the main upgrade works to the laneway. Wall artwork will then be completed under a separate tender. Separable Portion Two of this contract will then install the pre-fabricated lighting artwork. This has been fabricated under a separate tender of \$100,000 value. Attachment 6.3A is an Artist's Impression of the laneway following activation works.

Details:

Contract Arrangements and Technical Requirements

This construction contract will be delivered under a lump sum arrangement and completed in separable portions across two financial years. This is to allow the Art, Culture and Heritage (ACH) Business Unit laneway access to complete the art works on the Pier Street Carpark Building under a different commission between the two separable portions.

Separable Portion One (2016/2017)

- road reconstruction including the installation of cobble pavers;
- upgrade to existing drainage systems; and
- preparation for artwork installation.

Separable Portion Two (2017/2018)

- installation of pre-fabricated art work; and
- installation of new lighting.

The pre-fabricated art work will be provided by the City of Perth as a Principal Supplied Item and Separable Portion two must be completed no later than 31 July 2017.

Summary of Submitted Tenders

Offer submissions from the following four contractors have been received through the City of Perth's Electronic Tender system at 2pm on 14 February 2017:

- BCL GROUP (\$539,735.51)
- CIVCON CIVIL AND PROJECT MANAGEMENT (\$778,809.21)
- CQ & JM DOWSING PL ATF The Dowsing Family Trust T/As Dowsing Group (\$702,490.08)
- PETER FARMER DESIGN TEAMS (Non-Conforming Submission)

All prices exclude GST.

Selection Criteria

Offers have been assessed against the following selection criteria:

- SC1: Management and Personnel;
- SC2: Project Appreciation and Methodology;
- SC3: Relevant Experience;
- SC4: Ability to Meet the City's Timeframe;
- SC5: Quality Control Procedures; and
- SC6: Tendered Price.

Evaluation of Performance Based Criteria (SC1 to SC5)

CQ & JM DOWSING PL ATF The Dowsing Family Trust T/As Dowsing Group

The submission demonstrates an overall understanding of the project. The proponents have demonstrated extensive experience but have made a number of minor errors in their submission, such as detailing incorrect anchor pull out test locations.

No Inspection and test plans have been provided for quality assurance in electrical works. The rates for certain schedule items within the offer price are significantly higher when compared to the pre-tender estimate.

The attached program has demonstrated the ability to complete the works well ahead of schedule and at the same time making provision for ACH building works. There are some concerns with multiple concurrent running projects by the company in the same duration as the laneway enhancement works. However, this can be managed through effective contract management to minimise the risks to the City.

CIVCON CIVIL AND PROJECT MANAGEMENT

The submission demonstrates high competency in working within the public realm and effectively managing the expectations of various stakeholders. Civcon has limited experience in structural works but significant expertise in road construction projects.

Information relating to the anchor pull out test has not been mentioned within the documents. Quality management systems for non-civil deliverables have not been provided.

The Program has accommodated the works by ACH and demonstrates the ability to complete the project on time.

BCL GROUP

The submission has demonstrated limited understanding of the project. Incorrect and non-project related information has been provided with deficiencies in methodologies. The program provided does not indicate the work breakdown structure associated with the two separable portions.

Photos provided illustrate good workmanship and attention to detail. Inaccurate information has been provided for projects previously completed for the City of Perth.

PETER FARMER DESIGN TEAMS

The proponent has submitted an incorrect tender that did not address this tender brief and has been removed from the assessment process. (TRIM 31872/17)

Evaluation of Tendered Price (SC6)

A quantity surveyor pre-tender cost estimate valued the construction contract at \$694,038.0 as outlined in Attachment 6.3B.

Tendered prices received have been benchmarked against this pre-tender estimate and reflected in the attached Qualitative Selection Criteria Evaluation Matrix.

Combined Assessment Ranking (SC1 to SC6)

The table in Confidential Attachment 6.3C details the relative scores of all submissions when both performance and price based criteria were taken into consideration.

Comments:

Value for Money Assessment

The submission provided by Dowsing scores the highest when the price component is taken into consideration together with the other five qualitative selection criteria.

The team has the required experience to effectively deliver the desired project outcomes. This is complemented by a clearly documented work methodology that completes the project significantly ahead of schedule. There were some minor deficiencies in the submission, but these can be managed through proper contract management procedures.

All other submissions have either not demonstrated sufficient experience or a poorer understanding of the project.

In conclusion, **CQ & JM DOWSING PL ATF The Dowsing Family Trust T/As Dowsing Group** was evaluated as being the preferred tenderer with the ability to complete the works by 18 July 2017 which is 13 days in advanced of the required completion date

It is therefore recommended to accept the lump sum tender price of **\$702,490.08** including contingency and provisional sum (excluding GST) submitted by **CQ & JM DOWSING PL ATF The Dowsing Family Trust T/As Dowsing Group**.



Artist's Impression following Laneway Activation

ATTACHMENT 6.3B

UNIT: CONSTRUCTION

Project Close Out Schedule

MCLEAN LANE ENHANCEMENT

Item	Description	Unit	Qty	Rate	Amount
A 0 0	Project Management & Preliminaries				
A 0 1	Contractors Preliminaries including but not limited to supervision, programming of the works, setting out, site facilities, traffic management, occupational health & safety, waste disposal, dust control, etc. (20%)	Item	1	115,600.00	\$115,600.00
A 0 2	Allowance for dust protection to levels 1 - 3 of Pier Street Car Park for the duration of the works	Item	1	5,000.00	\$5,000.00
A 0 3	Allow for the protection of existing services and assets to remain for the duration of the works	Item	1	10,000.00	\$10,000.00
A 0 4	Contingency (15%)	item	1	75,400.00	\$75,400.00
1 0 0	Street Furniture				
1 2 0	INSTALLATION OF NEW ASSETS				
1 2 1	Supply and install "McLean Lane" sign comprising 6mm mild steel plate letters 1000 high	Item	1	25,000.00	\$25,000.00
2 0 0	Kerb Construction				
2 2 0	INSTALLATION OF NEW ASSETS				
2 2 1	270 x 150 kerb to match existing	m	23	35.00	\$805.00
3 0 0	Road Construction				
3 1 0	DEMOLITION OF EXISTING ASSETS				
3 1 1	Remove redundant pavement including seal and dispose off site	m2	487	15.00	\$7,305.00
3 1 2	Remove 150 thick asphalt hump and dispose off site	Item	1	150.00	\$150.00
3 1 3	Take up existing granite cobbles beneath existing paving, clean and store for re-use (PROVISIONAL QUANTITY)	m2	25	27.50	\$687.50
3 1 4	Extra for removing surplus cobbles to City of Perth Store (PROVISIONAL QUANTITY)	m2	10	20.00	\$200.00
3 1 5	Remove concrete of varying thicknesses from beneath existing paving and dispose off site	m2	21	15.00	\$315.00
3 1 6	Remove 300 wide x 150 thick concrete edging and dispose off dite	m	15	15.00	\$225.00
3 1 7	Saw cut existing pavement to make neat edge for new asphalt pavement	m	8	7.50	\$60.00
3 1 8	Saw cut existing concrete to make neat edge for new asphalt pavement	m	51	7.50	\$382.50
3 1 9	Remove existing Pier street car park stairs S-DM-01 and dispose off site including but not limited to cutting back sheet piles, removal of steel handrails, cut down reinforced concrete wall, cutting down stairs, protection of exposed reinforcement, removal of existing door & frame, and core drilling all as shown on drawing S-DM-01	Item	1	5,000.00	\$5,000.00
3 1 10	Infill Pier Street Car Park door including but not limited to concrete, formwork, reinforcement, reinforcing dowels, hydrophilic strip, repairing spalled concrete, and plate brackets all as detailed on drawing S-GL-01	Item	1	5,600.00	\$5,600.00
3 1 11	Tank walls below finished ground levels using bitumen treatment	Item	1	250.00	\$250.00
3 1 12	Backfill existing stair with imported clean sand fill compacted in layers as shown on drawing S-GL-01	m3	10	50.00	\$500.00
3 1 13	Cement stabilised backfill as shown on drawing S-GL-01	m3	2	345.00	\$690.00
3 2 0	INSTALLATION OF NEW ASSETS				
	Earthworks				
3 2 1	Box out for new pavement average depth 300mm and dispose off site commencing at ground levels after removal of existing pavements etc.	m3	155	150.00	\$23,250.00
3 2 2	Subgrade preparation	m2	515	2.50	\$1,287.50
	Pavements				
3 2 3	200 thick compacted limestone subbase	m2	515	22.50	\$11,587.50
3 2 4	200 thick compacted limestone basecourse	m2	441	22.50	\$9,922.50
	Bituminous Surfacing				
3 2 5	2 coat primerseal	m2	441	4.50	\$1,984.50
	Asphalt Wearing Course				
3 2 6	Tack coat	m2	441	1.50	\$661.50
3 2 7	2 x 25mm layers DGA with C320 binder and 7mm aggregate	m2	441	44.50	\$19,624.50
	Segmental Paving				
3 2 8	Remove from store and lay salvaged granite cobbles on and including 40mm mortar bed in 500 wide drainage channel	m2	60	65.00	\$3,900.00
3 2 9	Extra for collecting cobbles from City of Perth store (PROVISIONAL QUANTITY)	m2	35	30.00	\$1,050.00
4 0 0	Drainage Pipe Work				
4 1 0	DEMOLITION OF EXISTING ASSETS				
4 1 1	Remove existing 150 dia. Clay pipe and backfill trench with clean sand fill (PROVISIONAL QUANTITY)	m	10	100.00	\$1,000.00
4 1 2	Remove existing in ground downpipe connections at base of downpipes	No	3	100.00	\$300.00
4 2 0	INSTALLATION OF NEW ASSETS				
4 2 1	150 dia. class SN8 PVC pipe in trench not exceeding 1.5m deep including sand bedding	m	60	97.50	\$5,850.00
4 2 2	225 dia. Class 2 concrete pipe in trench not exceeding 1.5m deep including sand bedding	m	49	165.00	\$8,085.00
4 2 3	300 dia. Class 2 concrete pipe in trench not exceeding 1.5m deep including sand bedding	m	26	185.00	\$4,810.00
	Cap end of 150 PVC pipe	No	1	15.00	\$15.00

Item	Description	Unit	Qty	Rate	Amount
5 0 0	Drainage Structures				
5 1 0	DEMOLITION OF EXISTING ASSETS				
5 1 1	Remove existing gully and dispose off site	No.	1	750.00	\$750.00
5 1 2	Adjust level of existing drainage structures to suit new levels	No.	2	250.00	\$500.00
5 1 3	Break into drainage structure or pipe and build in 150 dia. Pipe	No.	14	150.00	\$2,100.00
5 1 4	Break into drainage structure or pipe and build in 225 dia. Pipe	No.	9	150.00	\$1,350.00
5 1 5	Break into drainage structure or pipe and build in 300 dia. Pipe	No.	4	150.00	\$600.00
5 2 0	INSTALLATION OF NEW ASSETS				
5 2 1	New non-standard gully pit as detail 22 on drawing D-DT-01	No	3	2,250.00	\$6,750.00
5 2 2	New standard manhole as detail 24 on drawing D-DT-01	No	1	2,500.00	\$2,500.00
5 2 3	Downpipe connection type 1 with inspection access point complete with Gatic 225 dia flushing point and class D ductile iron lid	No	8	250.00	\$2,000.00
5 2 4	Downpipe connection type 2 with inspection access point complete with Gatic 225 dia flushing point and class D ductile iron lid	No	3	230.00	\$690.00
6 0 0	Hydraulic Services				
6 1 0	DEMOLITION OF EXISTING ASSETS				
	Drainage Services				
6 1 1	Remove concrete for new tap drain and vents and reinstate on completion	No	2	50.00	\$100.00
	Water Services				
6 1 2	Saw cut and remove reinforced concrete surface finish for service pipe not exceeding 100 dia. In trench and reinstate on completion	m	8	65.00	\$520.00
	Existing Pits				
6 1 3	Adjust level of existing sewer pit lid to suite new levels (P1, P2 & P4)	No	3	250.00	\$750.00
6 1 4	Replace existing sewer pit lid with new ACO class D concrete infil lid (P3)	No	1	1,250.00	\$1,250.00
6 1 5	Replace existing sewer pit lid with new class D solid top lid and adjust to suite new levels (P6, P7 & P9)	No	3	1,250.00	\$3,750.00
6 1 6	Adjust level of existing unknown service pit lid to suite new levels (P10)	No	1	250.00	\$250.00
6 1 7	Reinstate concrete surround to sewer pit (P5)	No	1	500.00	\$500.00
6 2 0	INSTALLATION OF NEW ASSETS				
	Drainage Services				
6 2 1	100 dia. HDPE pipe and fittings in trench not exceeding 1000 deep	m	70	165.00	\$11,550.00
6 2 2	100 dia. UPVC vent pipe and fittings in trench not exceeding 1000 deep	m	5	135.00	\$675.00
6 2 3	65 dia. UPVC vent pipe and fittings in trench not exceeding 1000 deep	m	2	95.00	\$190.00
6 2 4	50 dia. UPVC vent pipe and fittings in trench not exceeding 1000 deep	m	2	90.00	\$180.00
6 2 5	100 dia. UPVC vent pipe and fittings fixed to building surface	m	7	100.00	\$700.00
6 2 6	50 dia. UPVC vent pipe and fittings fixed to building surface	m	14	50.00	\$700.00
6 2 7	100 vent cowl	No	1	45.00	\$45.00
6 2 8	50 vent cowl	No	2	35.00	\$70.00
6 2 9	Clean out point with Gatic class D infil 305 x 305 gas tight bolt down cover & frame all as detailed	No	3	225.00	\$675.00
6 2 10	Grated gully with ACO PEP22 box with bolt down hinged galvanised cover all as detailed	No	2	500.00	\$1,000.00
6 2 11	Inspection shaft rising shaft with Gatic class D infil 305 x 305 gas tight bolt down cover & frame all as detailed	No	1	350.00	\$350.00
6 2 12	Industrial Waste sampling point with removable grate all as detailed	No	1	250.00	\$250.00
6 2 13	Galvin 540L precast concrete grease arrester with 100mm raised access cover all as detailed	No	1	6,000.00	\$6,000.00
					\$0.00
	Water Services				\$0.00
6 2 14	Locate existing cold water service pipe , cut into and connect new 20mm dia. Copper pipe	No	2	300.00	\$600.00
6 2 15	Multi jet water meter	No	2	1,500.00	\$3,000.00
6 2 16	20 dia. Type B copper pipe and fittings in trench not exceeding 1000 deep	m	9	55.00	\$495.00
6 2 17	20 dia. Type B copper pipe and fittings fixed to building surfaces	m	21	40.00	\$840.00
6 2 18	20 dia. Isolation valve	No	2	50.00	\$100.00
6 2 19	20 dia. RPZD with 100 x 50 tundish	No	1	500.00	\$500.00
6 2 20	Anti vandal hose tap with removable handle	No	2	75.00	\$150.00
7 0 0	Lighting				
7 1 0	DEMOLITION OF EXISTING ASSETS				
7 1 1	Remove existing wall mounted luminair and deliver to Coty of PerthElectrical store	No	12	250.00	\$3,000.00
7 1 2	Remove existing laneway lighting conduit & cabling, decommission circuit, controls and redundant equipment and dispose off site	Item	1	2,500.00	\$2,500.00
7 1 3	Take up existing segmental paved surface finish for groupe of three service pipes not exceeding 100 dia. In trench and reinstate on completion	m	10	65.00	\$650.00
7 1 4	Adjust level of existing pit to suite new levels (P11)	No	1	150.00	\$150.00
7 2 0	INSTALLATION OF NEW ASSETS				
7 2 1	Install illuminated dear head	No	3	4,180.00	\$12,540.00
7 2 2	Install neon word art panel	No	1	5,900.00	\$5,900.00
7 2 3	Install aluminium lamp shades on catenary wire	No	33	275.00	\$9,075.00
7 2 4	Modify existing City of Perth Murry Street Distribution board as detailed and as specified	Item	1	2,650.00	\$2,650.00
7 2 5	Modify existing City of Perth Carpark switchboard board as detailed and as specified	Item	1	500.00	\$500.00
7 2 6	Supply and install new McLeane lane distribution board as detailed and as specified	Item	1	5,500.00	\$5,500.00
7 2 7	Luminaire type 1	No	9	3,125.00	\$28,125.00
7 2 8	Luminaire type 2	No	6	2,560.00	\$15,360.00
7 2 9	Luminaire type 3 mounted to catenary wire	No	33	860.00	\$28,380.00

Item	Description	Unit	Qty	Rate	Amount
7 2 10	Luminaire type 4 (per dear head)	No	3	4,150.00	\$12,450.00
7 2 11	Emergency exit signs including power supply and conduit	No	4	750.00	\$3,000.00
7 2 12	Alter existing emergency exit sign as detailed on drawing E-L2-01	No	1	250.00	\$250.00
7 2 13	Stainless steel catenary wire system complete with anchors fixed to buildings as detailed on drawing S-DT-01	m	70	375.00	\$26,250.00
7 2 14	Test anchor pull out test (PROVISIONAL QUANTITY)	Mo	8	1,500.00	\$12,000.00
7 2 15	10 Amp heavy duty IP56 switched socket outlet	No	2	150.00	\$300.00
7 2 16	15 Amp heavy duty IP56 switched socket outlet with captive screw mounted in S/S enclosure (msd. Sep.)	No	2	205.00	\$410.00
7 2 17	32 Amp heavy duty IP56 switched socket outlet with captive screw mounted in S/S enclosure (msd. Sep.)	No	2	650.00	\$1,300.00
7 2 18	20 amp single phase power supply to neon word art panel	Item	1	2,500.00	\$2,500.00
7 2 19	Type 3 lighting control	No	5	2,350.00	\$11,750.00
7 2 20	Luminaire type type 4 lighting controls	No	1	2,750.00	\$2,750.00
7 2 21	Stainless steel weatherproof power outlet enclosure	No	2	500.00	\$1,000.00
7 2 22	32 dia. HD power conduit in trench	m	4	35.00	\$140.00
7 2 23	50 dia. HD power conduit in trench	m	390	40.00	\$15,600.00
7 2 24	50 dia. communications conduit in trench	m	252	40.00	\$10,080.00
7 2 25	32 dia. HD power conduit fixed to building surfaces	m	200	35.00	\$7,000.00
7 2 26	Cap end of 50 dia. Communication conduit	No	4	25.00	\$100.00
7 2 27	ACO type 45 power pit (500 x 500) with class D solid lid	No	3	750.00	\$2,250.00
7 2 28	ACO type 45 comms pit (500 x 500) with class D solid lid	No	3	750.00	\$2,250.00
7 2 29	Galvanised steel conduit fixed to building surfaces	m	250	130.00	\$32,500.00
7 2 30	1x2c + E 2.5 mm2 Cu PVC/PVC cable in conduit	m	600	25.00	\$15,000.00
7 2 31	1x2c + E 6 mm2 Cu PVC/PVC cable in conduit	m	260	27.50	\$7,150.00
7 2 32	1x2c + E 10 mm2 Cu PVC/PVC cable in conduit	m	150	35.00	\$5,250.00
7 2 33	1x4c + E 10 mm2 Cu PVC/PVC cable in conduit	m	160	40.00	\$6,400.00
7 2 34	Repointing mortar as required to strengthen brickwork for catenary wire anchors (PROVISIONAL QUANTITY)	m2	3	200.00	\$600.00
7 2 35	Allow for testing and commissioning on completion	Item	1	2,500.00	\$2,500.00
	Total Estimated Costs				\$694,038.00

CONFIDENTIAL SCHEDULE 6.3C
ITEM 6.3 – TENDER 093-16/17 MCLEAN LANE ENHANCEMENT
PROJECT INCLUDING PREFABRICATED ART WORK INSTALLATION

FOR THE WORKS AND URBAN DEVELOPMENT COMMITTEE
MEETING

28 FEBRUARY 2017

DISTRIBUTED TO ELECTED MEMBERS UNDER SEPARATE COVER

Agenda Tender 087-16/17 Perth Town Hall Bin Enclosure Item 6.4

Recommendation:

That Council:

- 1. accepts the most suitable tender, being that submitted by M Construction (WA) Pty Ltd, for the Perth Town Hall Bin Enclosure (Tender no. 087-16/17) at a lump sum price of \$64,647.83 (excluding GST);***
- 2. notes that the expenditure in part 1 above will be charged to the account number CW 1882;***
- 3. notes that the allocated budget is insufficient, additional funds of \$28,000 (exc. GST) are necessary to undertake the works as per attached architectural plans Attachment 6.4A;***
- 4. approves that additional expenditure for the part 3 above be transferred from account CW 2002 Roads & Movement – Parliament Place – Harvest Terrace – Havelock Street identified as having surplus funds; and***
- 5. notes that the construction is anticipated to commence in early May 2017.***

FILE REFERENCE:	P1033602
REPORTING UNIT:	Construction
RESPONSIBLE DIRECTORATE:	Construction and Maintenance
DATE:	17/02/2017
ATTACHMENT/S:	Attachment 6.4A – Architectural Plans Confidential Attachment 6.4B – Tender Evaluation Matrix

Legislation / Strategic Plan / Policy:

Legislation	Part 4 - Tenders for Providing Goods and Services of the <i>Local Government (Functions & General Regulations) 1996</i>
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Integrated Planning and Reporting Framework Implications	Strategic Community Plan Council Four Year Priorities: Perth as Capital City S6 Maintain a Strong City Profile that Attracts Investment
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Policy

Policy No and Name:	9.7 – Purchasing Policy
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Financial Implications:

ACCOUNT NO:	CW 1882
BUDGET ITEM:	New Bin Store – Town Hall
BUDGETED AMOUNT:	\$ 65,000.00
AMOUNT SPENT TO DATE:	\$ 11,673.12
PROPOSED COST:	\$ 28,000.00
BALANCE REMAINING:	\$ 52,417.88
ANNUAL MAINTENANCE:	\$ 5,000.00
ESTIMATED WHOLE OF LIFE COST:	\$ 86,960.00

All figures quoted in this report are exclusive of GST.

Purpose and Background:

Perth Town Hall requires a bin storage that can house nine no. 240l mobile garbage bins (MGB) within its building footprint. There is an existing plywood panel bin enclosure at the easternmost bay of the southern colonnade. However this was installed as a temporary structure and does not meet the capacity requirements of the new storage demand.

Properties has identified a suitable location for upgraded storage facilities by modifying the existing plant room situated on westernmost bay of the southern colonnade.

The modification works require three colonnade archways to be in-filled with materials approved by the State Heritage Office; it will be visually similar to the existing archway whilst providing a functional bin store.

Details:

Detailed design was completed by Now Then Architects, with detail documentation including the Heritage Impact Assessment Report. The objective of the design is to maintain existing façade features by enclosing three archways to create the new bin storage. The modification works include:

- new in-filled three archways with stud frame, lined and painted;
- alteration of existing plant room staircase;
- new ventilation fan and associated electrical works;
- new door, metal louvre and associated works and
- removal of existing plywood enclosure.



Figure 1: Existing plywood Store



Figure 2: Existing Plant Room Stairwell



Figure 3 Proposed Infill Panels

Communications

Consultation has been undertaken with the Community Services Unit to ensure that the proposals and construction timing is acceptable from an operational viewpoint.

A detailed communications plan will be developed together with the Perth Town Hall Coordinator. This will include any planned events and will be implemented following Council approval of the works.

The proposal has also been reviewed and approved by the Heritage Council.

Contract Arrangements

The works will be delivered under a lump sum contract arrangement.

Working hours will be Monday to Saturday, 7.00am and 7.00pm. Construction is anticipated to commence on 1 May 2017 and the preferred contractor is currently indicating 08 June 2017 as the completion date.

Summary of Submitted Tenders

Four lump sum offers were received on 31 January 2017 through the City of Perth's electronic tender website from the following contractors:

- Macfield Construction Pty Ltd (\$64,854.35 exc. GST);
- M Construction (WA) Pty Ltd (\$64,647.83 exc. GST);
- LKS Construction (WA) Pty Ltd (\$99,850.00 exc. GST) and
- Access Without Barriers (\$39,100.00 exc. GST);

Tender Assessment and Evaluation Summary

The submissions received were assessed against the following six criteria:

SC1: Management and Personnel;
 SC2: Project Appreciation and Methodology;
 SC3: Relevant Experience;
 SC4: Ability To Meet City's Timeframe;
 SC5: Quality Control Procedures and
 SC6: Tendered Price.

A Confidential Tender Assessment Matrix (Confidential Attachment 6.4B) is attached. An evaluation summary against the non-priced based selection criteria has been provided below:

Macfield Construction Pty Ltd

The proponent did not include a Construction Management Plan, Traffic Management Plan, Communication Plan or Works Programme in the submission. Construction duration and material procurement requirements were not detailed. The entity has only provided an overview statement of the methodology and stated that more detailed project methodology and programme would be provided if awarded the project. This did not provide sufficient information for assessment purposes.

M Construction (WA) Pty Ltd

Employees allocated for this tender have extensive experience in heritage building works. The entity submitted details of three past heritage projects, demonstrating their proven abilities.

The entity's proposed methodology identified problems for the plant room access and provided a feasible solution. The work programme submitted identified that the works would be completed one week ahead of the tender requirement.

The price submitted is the second lowest and demonstrates the best value for money as well as the best understanding of the project requirements.

The Project team nominated for the tender consists of staffs with a broad range of engineering experience including in heritage projects. The entity has submitted documents demonstrating their understanding of the tender requirements and included details of the company management system to be employed for the project.

The submission is good but the tendered price is the highest and therefore does not represent the best value for the project.

Access Without Barriers

The entity has not submitted any past projects demonstrating their experience in delivering heritage works. A methodology was not included in the submission to demonstrate their ability to deliver the project.

The entity has omitted the existing bin removal works in their submission.

Combined Qualitative and Priced Based Assessment Ranking

The table in Confidential Attachment 6.4B details the relative scores of the four submissions when both the qualitative and price based criteria were taken into consideration.

Project Budget

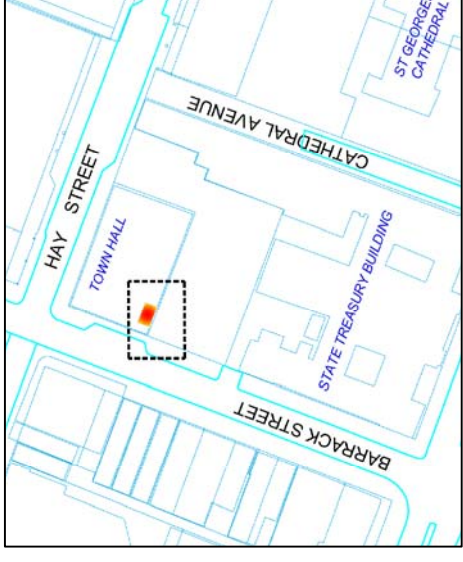
The approved budget for Perth Town Hall CW1882 was \$65,000.00. The tendered price by Macfield Construction Pty Ltd is \$64,854.35 (excluding GST).

The original approved budget was \$65,000. A design was tendered and the prices returned were significantly over budget. A redesign was therefore completed to meet the original budget intent. The current tender process has returned prices in line with the budget intent. The Budget balance is \$52,417.88 after deducting the amount spent to date (January 2017) and future commitments.

There is a budget shortfall of \$28,000. This is mainly attributable to the costs accruing from the unsuccessful design and tendering iteration. The additional funds are proposed to be sourced from CW 2002, Parliament Place Road Reconstruction where surplus of saving is available.

Comments:

M Construction has been evaluated as the preferred tenderer with the ability to complete the project within the required timeframe. The tendered price is also the best value among the submissions received.



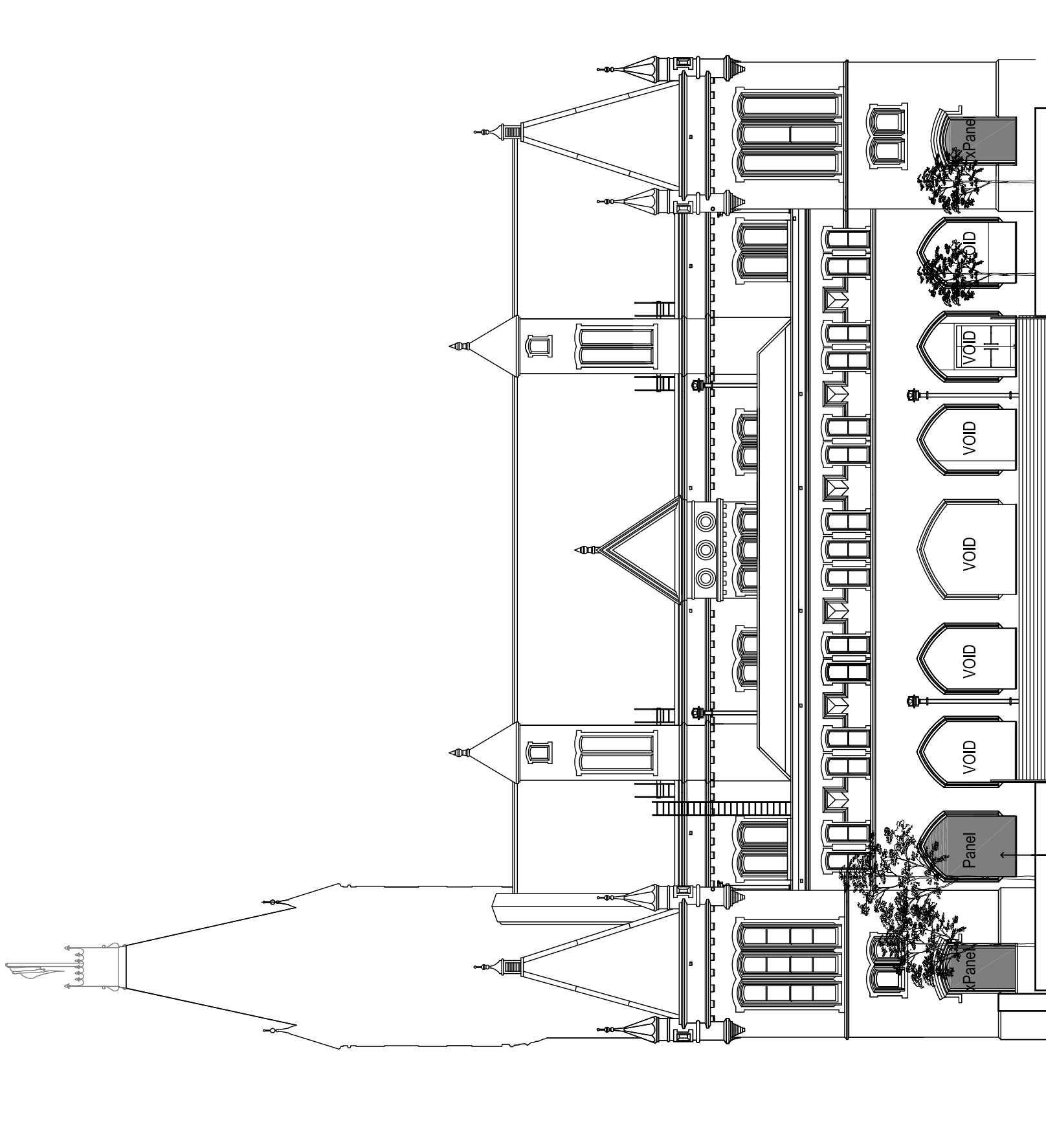
General Notes

1. The Town Hall is on State Register of Heritage Places. Take care to undertake works as documented and protect significant fabric.
2. All work new unless noted as existing.
3. Drawings are not based on survey, levels are nominal based on information provided by City.
4. All dimensions should be checked on site to confirm quantities prior to quoting.

Abbreviations & Symbols

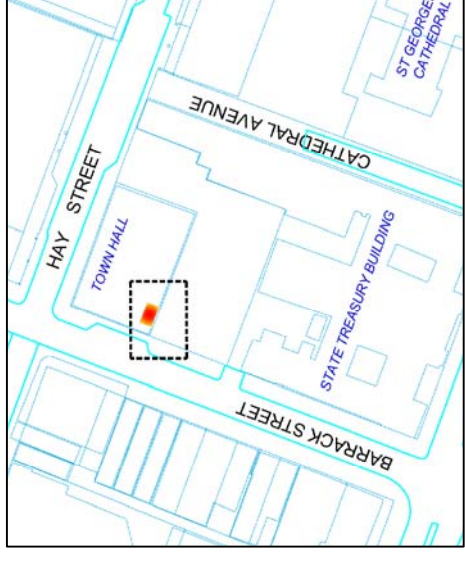
x, ex Existing
 CFC Compressed Fibre Cement

ATTACHMENT 6.4A



CFC panel with finishing bead all round. Paint to match adjacent xpanel.



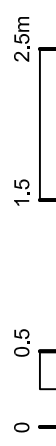
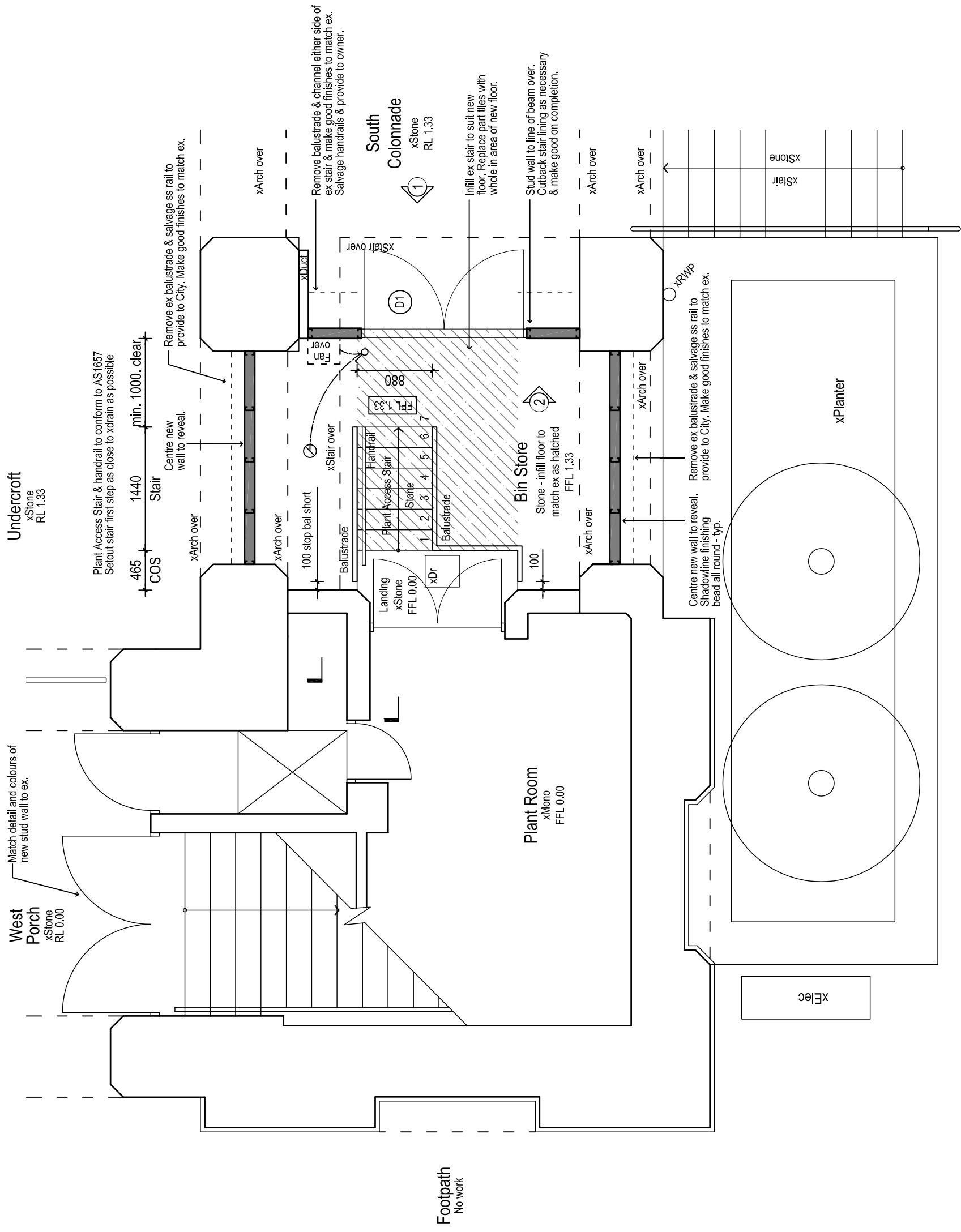
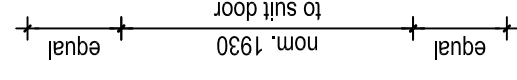
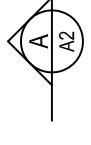
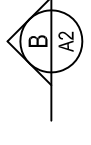


General Notes

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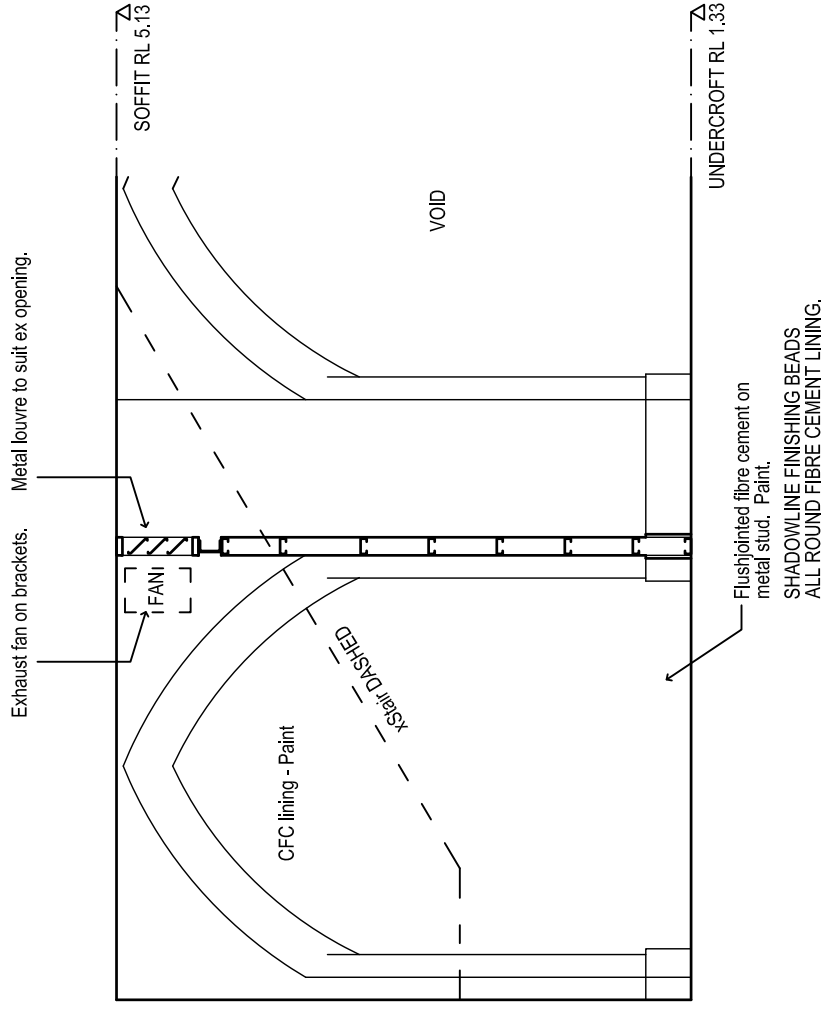
Abbreviations & Symbols

x, ex	Existing
Bal	Balustrade
CFC	Compressed Fibre Cement
Dr	Drain
FFL	Finished Floor Level
RL	Relative Level
RWP	Rainwater pipe
Typ	Typical
- - -	Item to be removed as noted
-	Item over
▬	Stud wall - shadowline bead all round lining
⊙	Exist light
⊕	Switch
▨	Infill floor to match ex & suit new levels

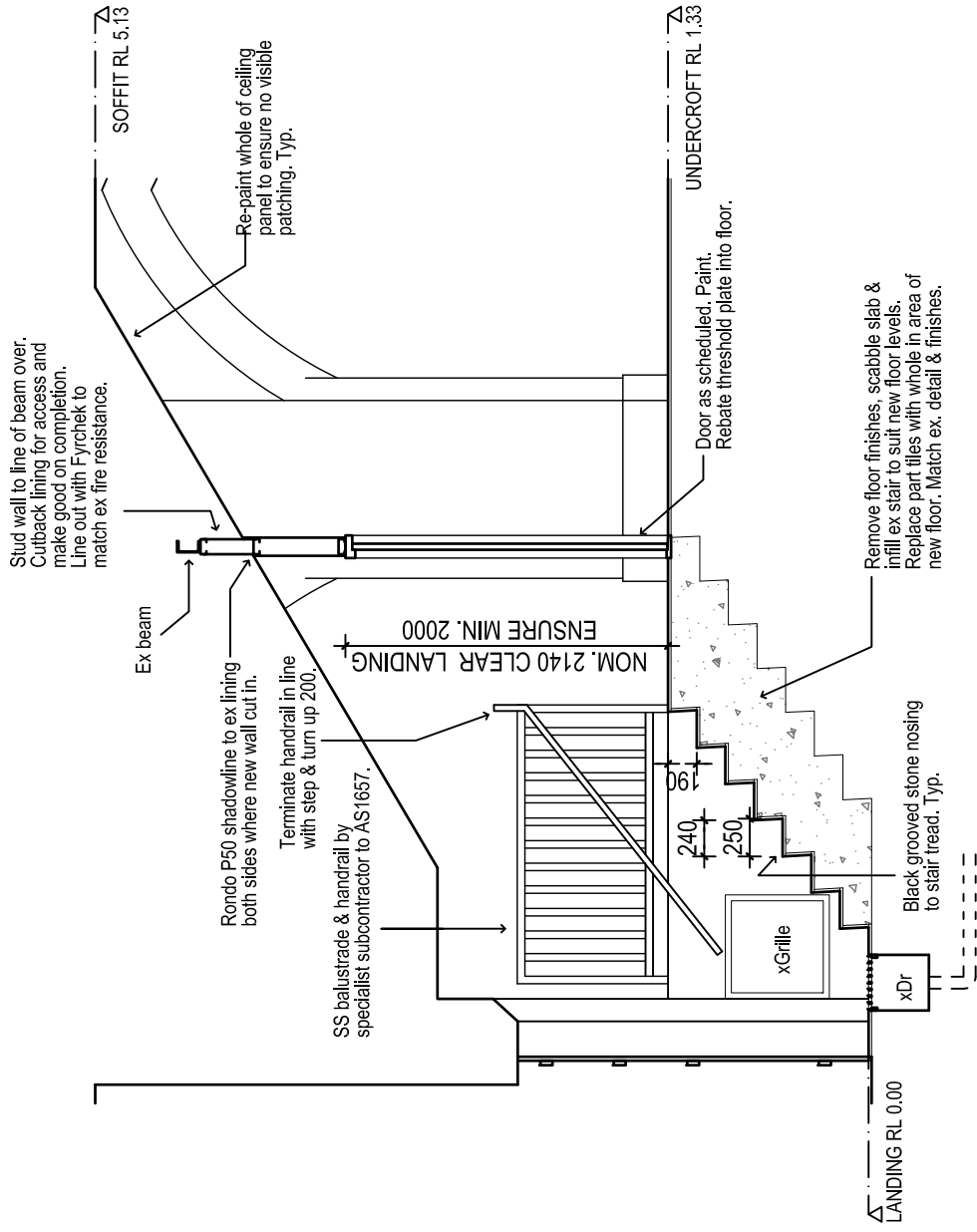


Abbreviations

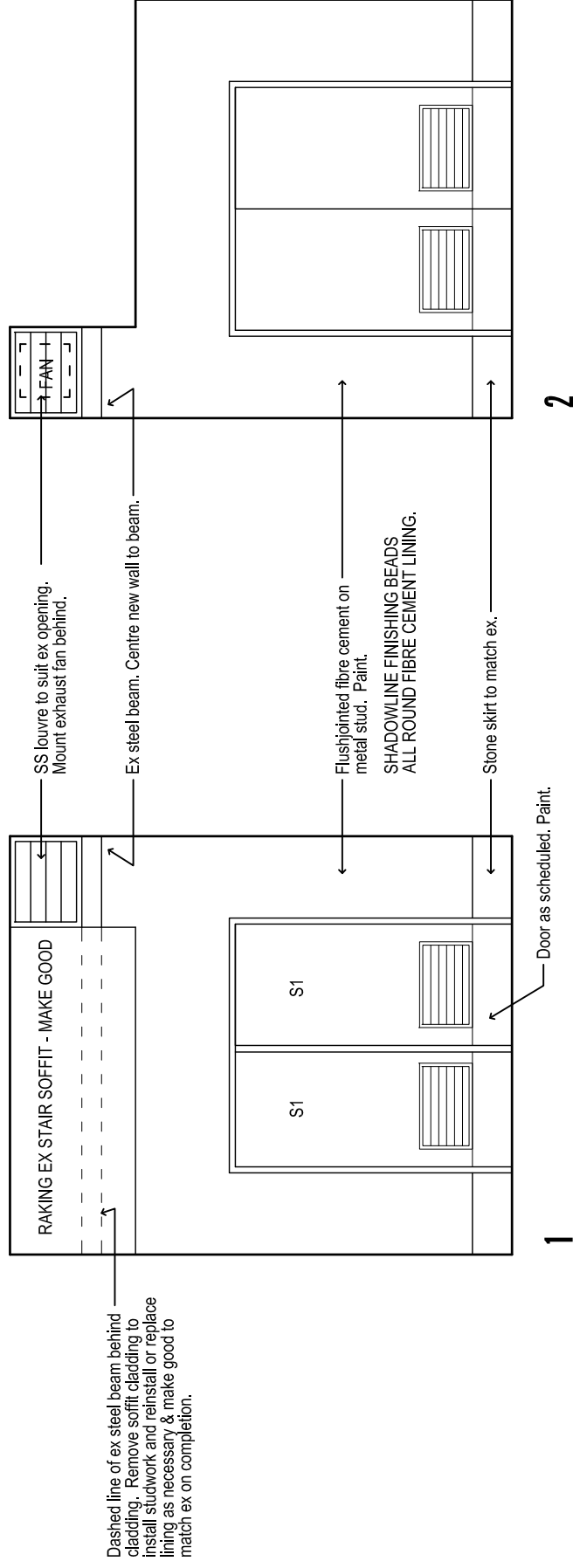
x, ex	Existing
COS	Confirm on Site
Dr	Drain
Nom	Nominal
RL	Relative Level
Sx	Sign as scheduled
Typ	Typical
---	Item beyond



Section BB



Section AA



Door & Window Schedule		Signage Schedule	
REFERENCE	DESCRIPTION	REFERENCE	S1
DESCRIPTION	FRAME	DESCRIPTION	SS individual letter type sign
PANEL	HARDWARE	GRADE & FINISH	Grade 316, mirror polish
		FIXING	Dowel and epoxied
		LETTER SIZE	100mm x 2.0 thk or equivalent
		LETTER SPACING	To installer's recommendations
		FONT	Arial or approved equivalent
		CONTENT	BIN STORE AND THROUGH TO SITE MAIN SWITCHBOARD
Electrical Fixture Schedule			
REFERENCE	DESCRIPTION	REFERENCE	Fan
DESCRIPTION	FRAME	DESCRIPTION	Wall mounted exhaust fan
PANEL		SUPPLIER	Fantech or approved equal
		PRODUCT	SQ Series - Square Plate Adjustable Pitch Axial Fans or approved equal
		FINISH	Powdercoat AS2700 N14 White
		MOTOR	Contractor to design and size motor to suit room volume & supplier's recommendations
		POWER SUPPLY	Single phase
Door & Window Schedule			
F.F.L			
REFERENCE	D1		
DESCRIPTION	Aluminium framed solid double door.		
FRAME	Nom. 40mm aluminium. Powdercoat. Submit supplier and product name to approval prior to ordering.		
PANEL	40mm solid core . Duracote Tempered Hardboard skin for painting standard.		
HARDWARE	AS1428.1 compliant ss lever handle. Lock keyed alike to City system. Threshold plate. Weather seals all round. Door closer. Provide hardware schedule to approval.		

Schedule Notes

- All doors viewed from hinged side.
- Check all dimensions on site prior commencing any work.
- Refer to specification for hardware schedule, threshold & door seal details & glazing specifications.
- Unless indicated otherwise, all door handles to be 1050 AFFL.
- Check handing of doors on plans and elevations prior to manufacture of doors and windows. Where discrepancies occur advise superintendent before commencement of work.
- Provide schedule to approval prior to ordering.

Abbreviations

x, ex	Existing
COS	Confirm on site
FFL	Finished Floor Level
SS	Stainless steel (Grade 316 uno) or approved equal finish
Sx	Sign (x refers to number)
UNO	Unless Noted Otherwise



CONFIDENTIAL SCHEDULE 6.4B
ITEM 6.4 – TENDER 087-16/17 PERTH TOWN HALL BIN ENCLOSURE

FOR THE WORKS AND URBAN DEVELOPMENT COMMITTEE
MEETING

28 FEBRUARY 2017

DISTRIBUTED TO ELECTED MEMBERS UNDER SEPARATE COVER