BELLBRIDGE MASTERPLAN WORKS

Road Calming Treatment and New Kerb - Bellbridge Foreshore

REQUEST FOR QUOTE

TOWONG SHIRE COUNCIL

JULY 2015

Prepared by:
Peter Sacco
Bedrock Australia
0456 521 991
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Introduction

1.1 Background

Bellbridge is built on the shore of Lake Hume, Victoria. As part of the Bellbridge Masterplan and Strategy “Our Bellbridge”, Towong Shire Council has worked with the local community to identify a number of key developments to support the community’s growth and help the town thrive. Towong Shire Council has secured funding to implement the six key developments given greatest priority by the community.

The six key developments identified in the strategy are:

- Roy Williams Reserve
- Tennis court upgrade
- Foreshore park
- Road treatment
- Furniture items
- Signage.

These developments will assist in meeting the main aim of ‘Our Bellbridge’ which is to ensure that the township enjoys sustainable growth, bringing together the needs of visitors and the community.

This request for quote brief relates to the road calming treatment and new kerb along Lake Road, Lyndon Avenue and Mitta Avenue in Bellbridge.

1.2 Scope of Works

The project scope of works associated with the road calming treatment and new kerb along Lake Road, Lyndon Avenue and Mitta Avenue in Bellbridge is outlined in the Bellbridge Foreshore Road Calming Treatment Plan and involves but is not limited to the following key elements:

1. Removal of existing kerb on Mitta Avenue
2. Construction of new kerb on Mitta Avenue, Lyndon Avenue and Lake Road
3. Installation of new side entry drainage pits on Lake Road, Lyndon Avenue and Mitta Avenue
4. Road calming treatment in two locations along Lake Road
5. Construction of concrete bus parking bay on Lake Road
6. Construction of compacted granitic sand car parking bays on Lyndon Avenue

1.2.1 Specific Information and Allowances

1.2.1.1 Design Drawings

- The Towong Shire Council operates to the IDM Infrastructure Design Manual which can be downloaded from the Council’s website. All design specifications for works associated with this tender are based on the IDM Manual.

- Design drawings detailing the road calming treatment and new kerb along Lake Road, Lyndon Avenue and Mitta Avenue in Bellbridge are provided in Appendix A (Bellbridge Foreshore Road Calming Treatment Plan)
1.2.1.2 Time Frame for Delivery of Works

- Works associated with the road calming treatment and new kerb along Lake Road, Lyndon Avenue and Mitta Avenue in Bellbridge are to be delivered from **3 August 2015 to 4 September 2015**.

1.2.1.3 Removal of existing kerb on Mitta Avenue

- Remove existing kerb on Mitta Avenue as indicated Appendix A (Bellbridge Foreshore Road Calming Treatment Plan)
- Total length of kerb required to be removed is 45 m
- Remove existing asphalt behind new kerb – rip and tine prior to placing new topsoil and re-seed grass.

1.2.1.4 Construction of new kerb on Mitta Avenue, Lyndon Avenue and Lake Road

- The locations and types of kerb required are described in Appendix A (Bellbridge Foreshore Road Calming Treatment Plan)
- The kerb types required include SM2 and SM3 as per Appendix B (IDM Typical Kerb Profile and Kerb Bedding Detail Drawing number SD 100 and SD110)
- The total length of new SM2 and SM3 kerb required is 180 m
- Kerb bedding is required to be 75 mm Class 3 compacted to 98% MMDD as per Appendix B (IDM Typical Kerb Profile and Kerb Bedding Detail Drawing number SD 100 and SD110)
- The minimum kerb return or edge of seal radius is required to be 7.5 m
- Replace road pavement at front of kerb to lip of kerb (to suit relevant kerb type). Bedding to be Class 2 compacted to 98% MMDD. Replace road seal to front of kerb.
- The spoon drain adjacent to the bus parking bay, the layback kerb adjacent to foreshore parallel parking and the industrial driveway connecting the granitic sand access road to Lake Road are all required to be constructed as per Appendix C (IDM new Industrial vehicle crossing detail drawing no. SD 250). Total length of new industrial vehicle crossing kerb is 65 m
- Install new Pram Ramps as indicated Appendix A (Bellbridge Foreshore Road Calming Treatment Plan). The total number of new pram ramps required is 3

1.2.1.5 Installation of new surface entry drainage pits on Lake Road, Lyndon Avenue and Mitta Avenue

- Install surface entry pits (SEP) and double surface entry pits (DSEP) as indicated in Appendix A (Bellbridge Foreshore Road Calming Treatment Plan)
- SEP required is 900 mm cast in-situ behind kerb pit as per Appendix D (IDM drawing SD435)
- The total number of new surface entry pits required is 4
- DSEP required is 1900 mm cast in-situ behind kerb pit as per Appendix E (IDM drawing SD450)
- The total number of new double surface entry pits required is 1.

1.2.1.6 Installation of new culvert under Lake Road

- Culvert size and type required is 300 mm diameter concrete pipe
- The total length of culvert required is 16 m
- Gravel backfill with 100 mm Class 2 compacted to 98% MMDD.
1.2.1.7 Road calming treatment in two locations along Lake Road
- Install Faux Brick concrete stencil and colour treatment at two locations as indicated in Appendix A (Bellbridge Foreshore Road Calming Treatment Plan) and Appendix F (Photos of road calming locations on Lake road)
- Thickness of concrete required is 175 mm 32 Mpa on 100 mm Class 2 sub base compacted to 98% MMDD with RF 82
- The height and length of road calming treatment required at both locations is 30mm rise over 1 m for the distance of 10 m. The road is 7 m wide
- Total area of road requiring Faux brick concrete stencil treatment is 70 m per section
- The number of saw cuts required in each faux brick stencil section is 2, at approx. 3.5 m intervals
- The faux brick pattern required is the ‘Convict Rock’ stencil in the colour ‘Bluestone’ supplied through Australian Slate-Crete Supplies as per Appendix G (or an authorised alternative).

1.2.1.8 Concrete Bus Bay
- Construct concrete bus bay as per design in Appendix H (Bus stop zone)
- The length of bus bay required is 12 m with 15 m ‘run in’ and ‘run out’ either side
- The width of bus bay required is 3.6 m
- The thickness of the concrete required is 175 mm
- Bedding is required to be 100 mm Class 2 compacted to 98% MMDD
- The total area of concrete bus bay required is 162 m²
- A concrete footpath is required to extend from the new bus bay to the existing footpath. The width of the foot path is to be 3 m wide and 100 mm in thickness. The length of path required is 3 m
- Bedding is required to be 75 mm Class 3 compacted to 98% MMDD.

1.2.1.9 Compacted granitic sand car parking bay
- Construct car parking bays on both sides of Lyndon Avenue
- Top dress car park bays using 30 mm aggregate granitic sand compacted to 95% MDD
- Car park bays constructed adjacent to bitumen roads or concrete kerbs are to be top dressed to a thickness of 150 mm
- The width of the car park bay (on each side of the road) is required to be 3.6 m
- The length of the car park bay (on each side of the road) is required to be 15 m
- Total area of hard stand required for the car park bay is 108 m².

1.2.1.10 Traffic management
- Preparation and implementation of a Traffic Management Plan is required
- The Construction Program needs to consider traffic diversion around the concrete faux brick road treatment areas to allow for uninterrupted construction.

1.2.1.11 Disposal of fill
- All excess fill is to be removed from site.
2 Tender Information

2.1 Tender Submission

2.1.1 Non-conforming Tenders
Should a Tender be considered non-conforming, Towong Shire Council may, at its sole discretion, determine if that Tender should be considered as part of the Tender Evaluation process. Non-conforming Tenders may include those which do not meet the requirements set out in the Tender Documents, Submission Requirements or other aspects of the Conditions of Tender.

2.1.2 Tender Program
As part of the Tender Submission the Tenderer shall provide Towong Shire Council with a detailed construction program outlining the main elements of the project delivery.

The Tender Program should identify at least the following:
- Key milestone dates which may impact on the overall completion date.

2.1.3 Tender Validity Period
The Tender Submission is deemed valid for 60 calendar days after the Tender Closing Date.

2.1.4 Evaluation of Tenders
Towong Shire Council will evaluate all Tenders based on Schedules and supporting information provided as part of the Tender submission.

The Tenderer should be prepared to discuss, in detail, all aspects of the Tender submission as part of this evaluation process. The Tenderer further acknowledges that the Tender which offers best value to Towong Shire Council may differ from the Tenderer's assessment of best value.

2.1.5 Costs to Tenderers
The Tenderer acknowledges that all costs associated with the review, preparation and submission of the Tender are to be borne by the Tenderer.

2.1.6 Completed Documents to be Lodged with Tender:
- Tender Form and associated schedules
- Addenda Form (if applicable)
- Schedule of Rates
- Program / Schedule
- Evidence of relevant certifications, licences and insurances.

The Tenderer should also include documents that address the key selection criteria to assist in the Tender Evaluation.

2.1.7 Selection Criteria
The following factors shall form the basis for the comparative evaluation Tenders:
- Demonstrated experience and track record in delivering similar projects
- Demonstrated capacity to deliver within the set timeframe
- OHSE systems and past performance
- Commensurate Tender Price
2.1.8 Tenderer to Become Informed
Prior to submitting a Tender, the Tenderer must ensure that they have;

- Reviewed and understood all Tender Documents and Tender Information
- Considered all risk associated with the works as described.

2.1.9 Site Conditions
It is the Tenderers responsibility to thoroughly inspect the existing site conditions and surrounding area prior to submitting their Tender.

2.2 Form of Contract
The contract will be a Lump Sum Contract, not subject to rise and fall and exclusive of GST (Goods and Services Tax). The form of contract shall be General Conditions of Contract AS2124 – 1992.

A copy of the Contract is not included in the tender documents, tenderers should make their own arrangements to obtain and review a copy of the Contract.

Part A of the General Conditions of Contract have been included as part of the tender Conditions.

2.3 Closing Date
Submissions will be accepted up until 2:00 pm Friday 24 July 2015. Submissions should be submitted electronically to Peter Sacco, Project Manager, via petersacco@bedrockaustralia.com by the closing date.

2.4 Enquiries
Any enquiries regarding the Tender Conditions, Tender Documents or other aspects of the Tender should be directed to the designated Contact Person:

Name: Peter Sacco
Phone: 0456 521 991
E-mail: petersacco@bedrockaustralia.com
3 TENDER SCHEDULES

3.1 TENDER FORM

3.1.1 PART 1 – Tender Price (Excluding GST)
We, the undersigned, are willing to execute the Works in accordance with the Conditions of Contract, Specification and Drawings referred to therein for:

Cost of Work (Excluding GST):

(Amount in Words)

($ )

(Amount in Figures)

GST (10%):

(Amount in Words)

($ )

(Amount in Figures)

Quotation Sum (Incl. GST):

(Amount in Words)

($ )

(Amount in Figures)
# 3.2 Schedule of quantities and prices

Contractors are to submit a tender trade breakdown, listed below, showing a cost breakdown of elements totalled to equal the Contract Sum, all figures **excl GST**.

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Description of Work</th>
<th>Estimated Quantity</th>
<th>Unit</th>
<th>Unit Rate $</th>
<th>Extended Amount $ (excl GST)</th>
</tr>
</thead>
</table>
| 1        | Removal of existing kerb
Rip and tine prior to placing new topsoil and re-seed grass | 45                 | Lineal meter M² | $           | $                            |
| 2        | Construction of new kerb (SM2 and SM3)                                              | 180               | Lineal meter   | $           | $                            |
| 3        | Construction of new industrial vehicle crossing kerb                                  | 65                | Lineal meter   | $           | $                            |
| 4        | Installation of new Surface Entry drainage Pits (900 mm)                             | 4                 | Item           | $           | $                            |
| 5        | Installation of new Double Surface Entry drainage Pits (1900 mm)                     | 1                 | Item           | $           | $                            |
| 6        | Installation of new concrete culvert 300 mm Ø                                       | 16                | Lineal meter   | $           | $                            |
| 7        | Construction of Faux Brick Stencil Concrete (at two locations)                       | 140               | m²             | $           | $                            |
| 8        | Construction of concrete bus parking bay
Concrete path connecting bus parking bay to footpath (3 m wide)                          | 162               | m²             | $           | $                            |
| 9        | Construction of compacted granitic sand car parking bay                               | 108               | m²             | $           | $                            |
| 10       | Traffic management                                                                  | 1                 | Item           | $           | $                            |

**Total Excluding GST** $
3.2.1 PART 2 – Schedule

Time to Completion of all works: ................................................ Working Days, based on 36 hr. week.

3.2.2 PART 3 – Rates and Conditions

1. The following items relate to our Tender and will form part of the Contract:

   (a) Percentage to be charged for Variations:

<table>
<thead>
<tr>
<th>(i) Additions: Preliminaries</th>
<th>Plus %</th>
<th>(ii) Omissions</th>
<th>Minus %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overhead &amp; Profit</td>
<td>______%</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

   (b) Daily Cost for Prolongation of Contract: Rate per day (if applicable) $ __________________________

   (c) Rate for excavation and removal of rock:

   | (i) Bulk excavation: | $ __________________________ per cubic metre measured in ground. |
   | (ii) Trench, Pit or Pad Excavation: | $ __________________________ per cubic metre measured in ground. |

2. We undertake, in the event of your acceptance of this Tender, to execute a Contract embodying all the conditions and terms contained.

   We agree to abide by this Tender for a period of sixty (60) days from the date fixed for receipt of same and it shall remain binding upon us and may be accepted at any time before the expiry of that period.

3. We understand that you are not bound to accept the lowest or any Tender you receive.

4. Our Building Practitioners Registration Number is: __________________________

5. We have Structural Defects Insurance Cover of: $ __________________________

   Insurance with (Name of Insurance Company)

3.2.3 PART 4 Authorisation

DATED this __________________________ day of __________________________ 20 __________________

SIGNATURE __________________________ in the capacity of __________________________

duly authorised to sign Tenders for and on behalf of __________________________

ADDRESS: ________________________________________________________________
3.3 Schedule of Rates

<table>
<thead>
<tr>
<th>TRADE</th>
<th>RATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Excavator</td>
<td>$/hour</td>
</tr>
<tr>
<td>Bob Cat</td>
<td>$/hour</td>
</tr>
<tr>
<td>Labourer</td>
<td>$/hour</td>
</tr>
</tbody>
</table>

3.4 Document Register

<table>
<thead>
<tr>
<th>Drawing. No.</th>
<th>Rev.</th>
<th>Title</th>
<th>Author</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appendix A</td>
<td></td>
<td>Bellbridge Foreshore Road Calming Treatment Plan</td>
<td>Development Outcomes / Towong Shire Council</td>
</tr>
<tr>
<td>Appendix B</td>
<td></td>
<td>Typical Kerb Profile IDM drawing no. SD 100</td>
<td>Towong Shire Council</td>
</tr>
<tr>
<td>Appendix C</td>
<td></td>
<td>Industrial vehicle crossing detail IDM drawing no. SD 250</td>
<td>Towong Shire Council</td>
</tr>
<tr>
<td>Appendix D</td>
<td></td>
<td>Side Entry Pit - IDM drawing no. SD 435</td>
<td>Towong Shire Council</td>
</tr>
<tr>
<td>Appendix E</td>
<td></td>
<td>Double Side Entry Pit - IDM drawing no. SD 450</td>
<td>Towong Shire Council</td>
</tr>
<tr>
<td>Appendix F</td>
<td></td>
<td>Photo’s of locations for road calming treatment</td>
<td>Towong Shire Council</td>
</tr>
<tr>
<td>Appendix G</td>
<td></td>
<td>Faux Brick Concrete Stencil Pattern</td>
<td>Towong Shire Council</td>
</tr>
<tr>
<td>Appendix H</td>
<td></td>
<td>Diagram - Bus stop zone</td>
<td>Towong Shire Council</td>
</tr>
</tbody>
</table>
### 4 PART A - GENERAL CONDITIONS OF CONTRACT

The General Conditions of Contract AS2124 - 1992 together with the Annexure Part A hereunder, shall form part of this Contract.

#### ANNEXURE to the Australian Standard

**General Conditions of Contract (AS2124 - 1992)**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>The law applicable is that of the state of: Victoria (Clause 1)</td>
</tr>
<tr>
<td>2</td>
<td>Payments under the Contract shall be made at: Tallangatta, Victoria (Clause 1)</td>
</tr>
<tr>
<td>3</td>
<td>The Principal: Towong Shire Council (Clause 2)</td>
</tr>
<tr>
<td>4</td>
<td>The Address Of The Principal: 32 Towong Street (PO Box 55) Tallangatta Victoria 3700</td>
</tr>
<tr>
<td>5</td>
<td>The Superintendent: Jamie Heritage (Clause 2)</td>
</tr>
<tr>
<td>6</td>
<td>The address of the Superintendent: 32 Towong Street (Po Box 55) Tallangatta Victoria 3700</td>
</tr>
<tr>
<td>7</td>
<td>Limits of accuracy applying to quantities for which the Principal accepted a rate or rates: Not Applicable (Clause 3.3/(b))</td>
</tr>
<tr>
<td>8</td>
<td>Bills of Quantities- the alternative applying: Alternative 2 (Clause 4.1)</td>
</tr>
<tr>
<td>9</td>
<td>The time lodgement for the priced copy of the Bills of Quantities: Not Applicable (Clause 4.2)</td>
</tr>
<tr>
<td>10</td>
<td>Contractor shall provide security in the amount of: 5% of the Contract Sum (excl. GST), in the form of two (2) bank guarantees to the value of 2.5% of the Contract Sum (excl. GST) each or Towong Shire Council will retain cash to the same amount. (Clause 5.2)</td>
</tr>
<tr>
<td>11</td>
<td>Principal shall provide security in the amount of: Nil (Clause 5.2)</td>
</tr>
<tr>
<td>12</td>
<td>The period of notice required of a party’s intention to have recourse to retention moneys and / or to convert security: 14 days (Clause 5.5)</td>
</tr>
<tr>
<td>13</td>
<td>The percentage to which the entitlement to security and retention moneys is reduced: 2.5% of Security of the Contract Sum to be released upon the Award of the Practical Completion, the balance will be released upon the Award of Final Certificate at the end of the Defects Liability Period. (Clause 5.7)</td>
</tr>
<tr>
<td>14</td>
<td>Interest on retention moneys and security the alternative applying: Alternative 2 (Clause 5.9)</td>
</tr>
</tbody>
</table>
14A Delegates of the Principal for the issue of approvals and notices:
(Clause 7)

Clause 5.3 Form of Security  The Superintendent
Clause 5.4 Time for Lodgement of Security  The Superintendent
Clause 8.3 Supply of Documents by the Principal  The Superintendent
Clause 27.1 Possession of Site  The Superintendent

15 The number of copies to be supplied by the Principal:
(Clause 8.3) 3

16 The number of copies to be supplied by the Contractor:
(Clause 8.4) 3

16A Order of precedence to be applied in interpreting the Contract:
(Clause 8.1)

(a) Formal Instrument of Agreement dated...................
(b) Letter of Acceptance of Tender dated....................
(c) AS2124- 1992 General Conditions of Contract and Annexure part A
(d) Specifications, as listed in the Formal Instrument of Agreement
(e) Drawings numbered, as listed in the Formal Instrument of Agreement
(f) Draft Construction Program.

17 The time within which the Superintendent must give a direction as to the suitability and return the Contractor(s) copies:
(Clause 8.4) 14 days

18 Work which cannot be subcontracted without approval:
(Clause 9.2) Nil

19 The percentage for profit and attendance:
(Clause 11 (b)) Nil

20 The amount or percentage for profit and attendance:
(Clause 11 (c)) Nil

21 Insurance of the works- the alternative applying:
(Claude 18) Alternative 1

22 The assessment for insurance purposes of the costs of demolition and removal of debris:
(Clause 18 (ii)) 10% of contract sum

23 The assessment for insurance purposes consultant fees:
(Claude 18 (iii)) 10% of contract sum

24 The value of materials to be supplied by the Principal:
(Claude 18 (iv)) Nil

25 The additional amount or percentage:
(Claude 18 (v)) Nil

26 Public Liability insurance the alternative applying:
(Claude 19) Alternative 1
<table>
<thead>
<tr>
<th></th>
<th>Description</th>
<th>Value/Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>27</td>
<td>The amount of Public Liability insurance shall be not less than:</td>
<td>$10,000,000</td>
</tr>
<tr>
<td></td>
<td>(Clause 19)</td>
<td></td>
</tr>
<tr>
<td>28</td>
<td>The time for giving possession of the Site:</td>
<td>From the date of Letter of Award of Contract and all required documents have been received and accepted</td>
</tr>
<tr>
<td></td>
<td>(Clause 27.1)</td>
<td></td>
</tr>
<tr>
<td>29</td>
<td>The Date for Practical Completion:</td>
<td>10 April 2015</td>
</tr>
<tr>
<td></td>
<td>(Clause 35.2)</td>
<td></td>
</tr>
<tr>
<td>30</td>
<td>Liquidated Damages per day:</td>
<td>$110 per calendar day</td>
</tr>
<tr>
<td></td>
<td>(Clause 35.6)</td>
<td></td>
</tr>
<tr>
<td>31</td>
<td>Limit of Liquidated Damages:</td>
<td>$10,000</td>
</tr>
<tr>
<td></td>
<td>(Clause 35.7)</td>
<td></td>
</tr>
<tr>
<td>32</td>
<td>Bonus per day for early Completion:</td>
<td>Not Applicable</td>
</tr>
<tr>
<td></td>
<td>(Clause 35.8)</td>
<td></td>
</tr>
<tr>
<td>33</td>
<td>Limit of bonus:</td>
<td>Not Applicable</td>
</tr>
<tr>
<td></td>
<td>(Clause 35.8)</td>
<td></td>
</tr>
<tr>
<td>34</td>
<td>Extra costs for Delay or Disruption:</td>
<td>Event</td>
</tr>
<tr>
<td></td>
<td>(Clause 36)</td>
<td>Clause 35.5 (a) Nil</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Clause 35.5 (b) Nil (No Event)</td>
</tr>
<tr>
<td>35</td>
<td>The Defects Liability Period:</td>
<td>12 months</td>
</tr>
<tr>
<td></td>
<td>(Clause 37)</td>
<td></td>
</tr>
<tr>
<td>36</td>
<td>The Charge for overheads. Profit. Etc. for day work</td>
<td>To be determined</td>
</tr>
<tr>
<td></td>
<td>(Clause 41 (f))</td>
<td></td>
</tr>
<tr>
<td>37</td>
<td>Times for Payment Claims</td>
<td>Submit draft claim within five (5) days after the end of the month. Submit final claim within ten (10) days after the end of the month, payment to be made by the seventeenth (17th) day of the month.</td>
</tr>
<tr>
<td></td>
<td>(Clause 42.1)</td>
<td></td>
</tr>
<tr>
<td>38</td>
<td>Unfixed Plant and Materials for which payment claims may not be made notwithstanding that they are not incorporated in the Works:</td>
<td>If Applicable, all work incorporated in the Works at 10% of the value until 5% of the Contract Sum is held.</td>
</tr>
<tr>
<td></td>
<td>(Clause 42.1 (ii))</td>
<td>Alternative 3</td>
</tr>
<tr>
<td>39</td>
<td>Retention Moneys on:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(Clause 42.3)</td>
<td></td>
</tr>
<tr>
<td>40</td>
<td>Unfixed Plant or Materials the alternative applying:</td>
<td>1% above the 2 year ‘Indicative Coupon rate for Borrowing by Local Government Authorities In Victoria’, as set out by the Department of Treasury and Finance (or if that rate is not available, such other comparable rate as agreed between parties) and as applying on the last payment date.</td>
</tr>
<tr>
<td></td>
<td>(Clause 42.4)</td>
<td>After 3 months unless preliminaries have not been provided, then indefinite.</td>
</tr>
<tr>
<td>41</td>
<td>The rate of interest on payments:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(Clause 42.9)</td>
<td></td>
</tr>
<tr>
<td>42</td>
<td>The delay in giving possession of the Site which shall be a substantial breach:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(Clause 44.7)</td>
<td></td>
</tr>
<tr>
<td>43</td>
<td>The alternative required for dispute resolution:</td>
<td>Alternative 2</td>
</tr>
<tr>
<td></td>
<td>(Clause 47.2)</td>
<td></td>
</tr>
<tr>
<td>44</td>
<td>The person to nominate an arbitrator:</td>
<td>The Chairperson for the time being the Institute of Arbitrators Australia, Victorian Chapter.</td>
</tr>
<tr>
<td></td>
<td>(Clause 47.3)</td>
<td></td>
</tr>
<tr>
<td>45</td>
<td>Location of arbitration:</td>
<td>Victoria</td>
</tr>
<tr>
<td></td>
<td>(Clause 47.3)</td>
<td></td>
</tr>
</tbody>
</table>
5 **APPENDIX**

5.1 **Appendix A – Bellbridge Foreshore Road Calming Treatment Plan**
5.2 Appendix B – Typical Kerb Profile IDM drawing no. SD 100
TYPICAL KERB PROFILES 'B' TYPE, 'SM' TYPE & 'M' TYPE

NOTES:
1. REFER TO AS 2876:2000 CONCRETE KERBS AND CHANNELS FOR SPECIFIC REQUIREMENTS.
2. REFER TO AUSTRALIAN GUIDE TO ROAD DESIGN PART 3: GEOMETRIC DESIGN FOR THE RECOMMENDED USE OF KERBS AND CHANNELS.
3. CONCRETE SHALL BE NORMAL CLASS N25 STANDARD STRENGTH GRADE COMPLYING WITH THE REQUIREMENTS OF AS 1379. REFER TO Vicroads STANDARD SPECIFICATION 703 FOR REQUIREMENTS OF CONCRETE TO BE USED IN EXTRUSION MACHINES.
4. BEDDING TO BE COMPACTED CLASS 3 F.C.R. SUPPLIED BY THE CONTRACTOR UNLESS OTHERWISE DIRECTED. (REFER SD110)
5. INCREASE OVERALL KERB PROFILE (DEPTH OF CONCRETE):
   a) 80mm FOR COMMERCIAL PROPERTIES
   b) 80mm WITH L8TM TRENCH MESH FOR INDUSTRIAL PROPERTIES (MESH TO HAVE 40mm COVER)
6. CONCRETE TO BE SMOOTH TROWELLED FINISHED ON TRAY AND KERB.
7. CONCRETE SPONGE FINISHED ON LAYBACK.
8. CONSTRUCTION JOINTS LOCATED - 250mm MAXIMUM SPACING
   - 75mm MINIMUM DEPTH
9. ELIMINATE 25mm BULLNOSE ON ALL POSITIVE FALL PEDESTRIAN CROSSINGS.
10. WIDTHS SPECIFIED IN CROSS SECTIONS ARE FACE (LINE) OF KERB MINIMUM.
11. MINIMUM CONCRETE STRENGTH TO BE 25 MPa.
12. LINE OF KERB IS USED TO DETERMINE CARRIAGEWAY WIDTHS.
TYPICAL KERB BEDDING DETAIL

NOTES:

1. BEDDING TO BE COMPACTED CLASS 3 F.C.R. SUPPLIED BY THE CONTRACTOR UNLESS OTHERWISE DIRECTED

ALL MEASUREMENTS IN MILLIMETRES

TYPICAL KERB BEDDING
5.3 Appendix C – Industrial vehicle crossing detail IDM drawing no. SD 250
NEW INDUSTRIAL VEHICLE CROSSING DETAIL

EXISTING 75mm FOOTPATH TO BE REMOVED AND REPLACED WITH 150mm THICK SL72 (2 No. LAYERS) REINFORCED 32MPA CONCRETE
EXTEND 150mm REINFORCED 32MPA CONCRETE 500mm BEYOND VEHICLE CROSSING AT THE FOOTPATH

EXTENT OF KERB & CHANNEL TO REMOVE ANY DAMAGE TO ROAD SEAL TO BE REINSTATED BY CONTRACTOR TO COUNCILS APPROVAL

WHERE ANY NEW CONCRETE ABUTS EXISTING CONCRETE INSTALL R140 DOWELS IN 125mm THICK CONCRETE OR R100 DOWELS IN 75mm THICK CONCRETE DOWELS @ MAX 600 CTS

PLACE SL82 MESH 50mm BELOW TOP OF 32MPA CONCRETE PAVING USING BAR CHAIRS.

EXTENT OF KERB & CHANNEL TO REMOVE ANY DAMAGE TO ROAD SEAL TO BE REINSTATED BY CONTRACTOR TO COUNCILS APPROVAL

32MPA CONCRETE MAXGRADE 1 IN 10 MINGRADE 1 IN 30

PLACE SL82 MESH 50mm BELOW TOP OF 32MPA CONCRETE PAVING USING BAR CHAIRS.

SECTION A-A

NOTE:
T.O.K. DENOTES TOP OF KERB

ALL MEASUREMENTS IN MILLIMETRES

LAST UPDATED 20/03/2015
5.4 Appendix D – Side Entry Pit - IDM drawing SD435
Approved cover to be installed to manufacturers specifications.

Shape 'SM2' profile to allow for correct entry (typ).

Expansion joints

Line of kerb (line of set-out)

Back of kerb (line of set-out)

25 Max mortar packing

60mm extra depth to extend 300mm either side of pit

Provide blockouts for subsoil drain adaptor on both sides of pit

Reinforcement mesh to be placed centrally...

Notes:
1. Refer to SD100 for kerb details.
2. Concrete strength F’c = 25MPa. (MIN) at 28 days.

Reinforcement details

<table>
<thead>
<tr>
<th>Pit Length 'L' or Width 'W'</th>
<th>Reinforcement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Up to 1200</td>
<td>RL92</td>
</tr>
<tr>
<td>1201 to 1800</td>
<td>RL918</td>
</tr>
<tr>
<td>1801 to 2400</td>
<td>RL1218</td>
</tr>
</tbody>
</table>

All measurements in millimetres

Side entry pit 900mm inlet with cast iron cover & concrete surround for 'SM2'

Infrastructure Design Manual Standard Drawings


Local Government Infrastructure Design Association

Last Updated 20/03/2015

SD 435

Not to scale
5.5 Appendix E – Double Side Entry Pit - IDM drawing no. SD450
NOTES:

1. REFER TO SD100 FR KERB DETAILS.
2. CONCRETE STRENGTH F'C = 25MPa. (MIN) AT 28 DAYS.

REINFORCEMENT DETAILS

<table>
<thead>
<tr>
<th>PIT LENGTH 'L' OR WIDTH 'W'</th>
<th>REINFORCEMENT</th>
</tr>
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<td>UP TO 1200</td>
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<td>RL918</td>
</tr>
<tr>
<td>1801 TO 2400</td>
<td>RL1218</td>
</tr>
</tbody>
</table>

ALL MEASUREMENTS IN MILLIMETRES

DOUBLE SIDE ENTRY PIT 1900mm INLET WITH CAST IRON COVER & CONCRETE SURROUND FOR 'SM2'

LAST UPDATED 20/03/2015

SD 450

NOT TO SCALE
5.6 Appendix F – Photo’s of locations for road calming treatment
5.7 Appendix G - Faux Brick Concrete Stencil Pattern
5.8 Appendix H - Diagram Bus stop zone
Figure 7.7 Bus (Stop) Zone Length