

## GENERAL SPECIFICATION FOR CONSTRUCTION OF A FOOTPATH CROSSING, KERB & GUTTER

*Please note: This abridged specification is intended to be used by persons who do not possess Council's detailed specification, AUS-SPEC C271 which can be purchased from Council if required.*

### 1. FOOTPATH CROSSING

**All footpath crossings are to be constructed in full width concrete only except in designated commercial areas. No stencilled, stamped, colouring agents or strip concrete etc is permitted.**

- a) The number of footpath crossing permitted shall be one (1) per property to improve streetscape, maximise on-street parking and reduce the number of conflict points between vehicles and pedestrians. The overall width of the crossing shall not exceed 30% of the property frontage unless otherwise approved by Council.
- b) Normal Residential Crossing  
The work to be carried out to conform to Council's specification which requires a 125mm thick concrete slab constructed in one course using a minimum of 25MPa with 80mm slump, without any separate surface rendering layer, and reinforced with SL72 steel bar mesh on 65mm chairs.
- c) Heavy Duty Crossing  
The work to be carried out to conform to Council's specification which requires a 150mm thick concrete slab constructed in one course using a minimum of 25MPa with 80mm slump, without any separate surface rendering layer, and reinforced with SL72 steel bar mesh on 65mm chairs.
- d) Shape, Levels, Location & Finish  
The footpath crossing shall be constructed at right-angles to the kerb and gutter. In special circumstances, including the need to avoid street trees and subject to the prior written approval of Council's Engineer, this angle may be varied between 75<sup>o</sup> and 105<sup>o</sup> to the kerb and gutter. The crossing shall be constructed to the levels, size and shape as determined by Council's Engineer. Crossings shall not encroach over the frontage of an adjoining property unless otherwise approved by Council. Concrete is to be broom or wood float finished or unless otherwise specified. Gutter and layback shall be finished with a steel trowel.
- e) Expansion Joint  
Full depth expansion joints shall be placed at the property boundary, at the rear of the layback and at either side of a pre-exist footpath. Expansion jointing material shall be approved bituminous material not less than 10mm thick.
- f) Curing of Concrete  
Concrete is to be cured for a minimum of 4 days by covering with a waterproof membrane that is securely fixed on the edges, or as determined by Council's Engineer.

### 2. KERB & GUTTER

- a) All kerb and gutter shall be constructed in accordance with this specification and drawing. The minimum grade of kerb and gutter shall be 0.5%.
- b) Hand/Machine Poured  
Hand/machine poured kerb and gutter shall be laid true to line/grade and finished with a steel trowel. Edges shall be finished with round chamfers.
- c) Expansion Joint  
Expansion joints in kerb and gutter shall be provided at intervals of 6.0 metres, connection to existing and at each ends of laybacks. Joints shall be filled with a 10mm thick preformed expansion bituminous strip, laid flushed with the concrete.
- d) Dummy/Contraction Joint  
The depth of dummy joints shall be 20mm spaced at intervals of approx 1.5m apart. The joints shall be steel trowelled finished.

- e) Connection of Private Stormwater  
The contractor shall provide 125x75x4mm thick RHS stormwater to replace existing outlets or where a new connection is required.
- f) Backfilling  
The contractor shall backfill the newly constructed kerb and gutter with approved topsoil and turfed where necessary.

### 3. INSPECTION OF FORMWORK

All formwork must be inspected by Council's Engineer, prior to concrete being poured. At least 48 hours notice shall be given by the contractor of the readiness of the formwork. Failure to do so may result in rejection of works already completed. All inspections are only carried out during normal working hours, Monday to Friday. Should the formwork fail to meet Council's standard, reinspection fees shall be paid in accordance with Council's current schedule of fees and charges prior to reinspection.

### 4. SAFETY PRECAUTIONS

Safety of pedestrians and vehicular traffic shall be fully provided for, by erection of barriers by day, and barriers and lamps by night, or otherwise as directed by Council's Engineer. The security deposit may be forfeited if the contractor fails to implement these safety measures.

### 5. COMPLETION

The whole of the work shall be completed to Council's requirements and in accordance with Council's Standard Plan SD105 and specification. All other requirements, which are not specified in this document, can be obtained from AUS-SPEC SPECIFICATION C271.

### 6. REMOVAL OF NON-CONFORMING WORKS

Non-conforming works as may be determined by Council's Engineer will have to be removed by the applicant within 14 days of notification. In default thereof, Council will carry out the removal of non-conforming works and the cost of this work, as assessed by Council's Engineer (whose certification shall be conclusive) will be paid by the applicant or be recovered by Council as liquidated debt.

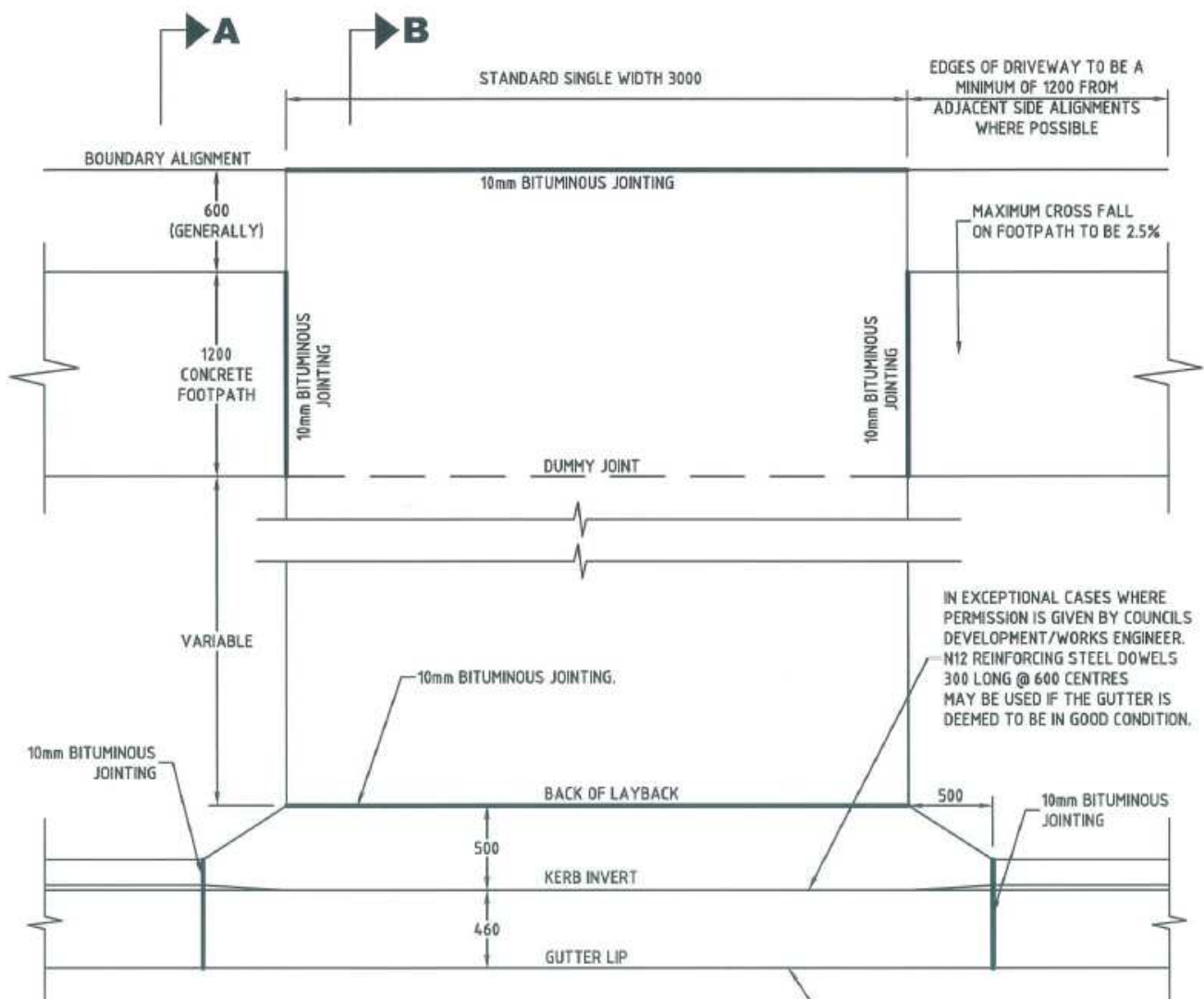
### 7. UNDERTAKING

The receipt by Council of the footpath crossing application, duly signed by the applicant with an understanding that the workmanship of the crossing is to be guaranteed by the applicant for a period of twelve (12) months.

### 8. PUBLIC UTILITIES

Relevant public Utility Authorities shall be notified prior to the commencement of any work to ensure that the proposed crossing will not interfere or be interfered with by any works envisaged by these Authorities. Any adjustments to public utility services in association with the construction works are to be at the full cost to the applicant.

11. The applicant may be required to submit design longitudinal sections (scale 1:20) for the proposed crossing if the grade of the proposed crossing is greater than 6% **i.e. for every one metre length of crossing a rise/fall of 60mm**. Design shall also be provided for kerb returns and for falls of less than 0.5% in kerb and gutter.
12. The security deposit will be refunded by Council upon satisfactory completion of the work, or the deposit will be forfeited and used by Council to remove any non-conforming work, and for any restoration of roadwork and footpath damage in association with the construction or removal of the crossing.
13. The issue of the Permit does not imply that approval is given for commencement of works in the public road. The approval of any works to be carried out is subject to a site inspection by Council's Engineer. If the application is refused, the inspection fee and/or security deposit will be refunded by mail.

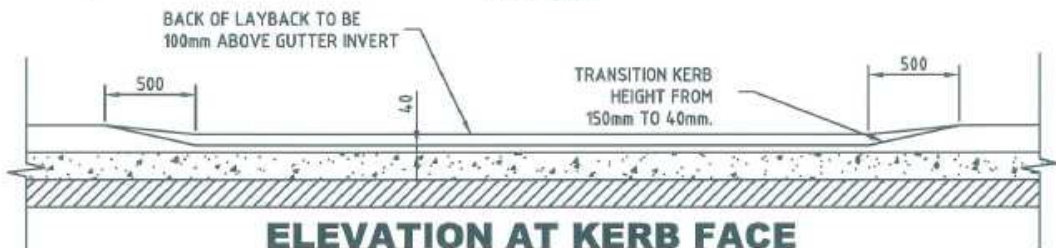


IN EXCEPTIONAL CASES WHERE PERMISSION IS GIVEN BY COUNCILS DEVELOPMENT/WORKS ENGINEER. N12 REINFORCING STEEL DOWELS 300 LONG @ 600 CENTRES MAY BE USED IF THE GUTTER IS DEEMED TO BE IN GOOD CONDITION.

### VEHICULAR CROSSING PLAN

NOT TO SCALE

ROAD RESTORATION TO BE CARRIED OUT IF DEEMED NECESSARY BY COUNCILS DEVELOPMENT/WORKS ENGINEER.

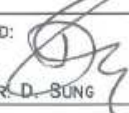


### ELEVATION AT KERB FACE

NOT TO SCALE

#### SPECIFICATIONS

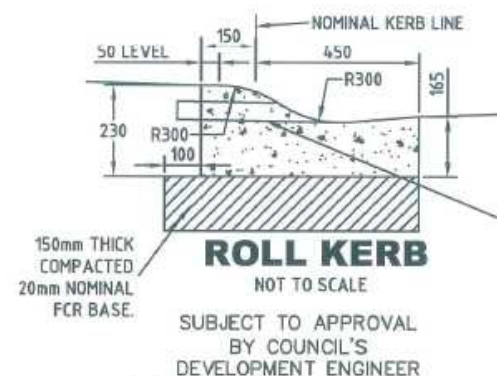
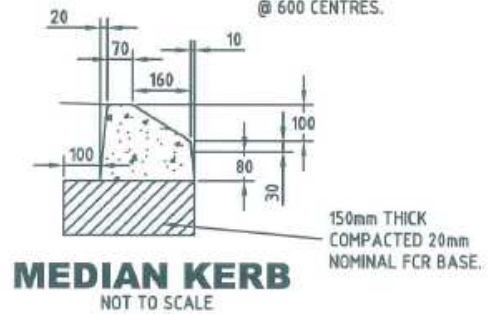
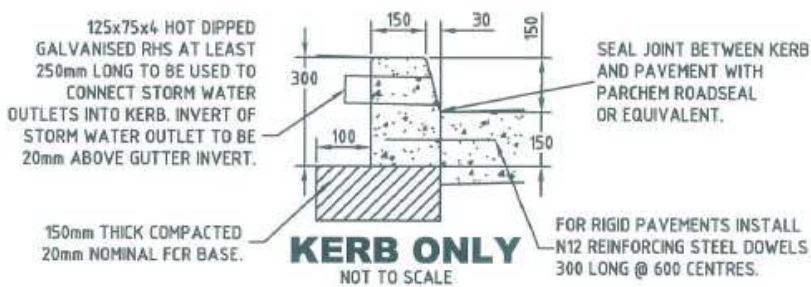
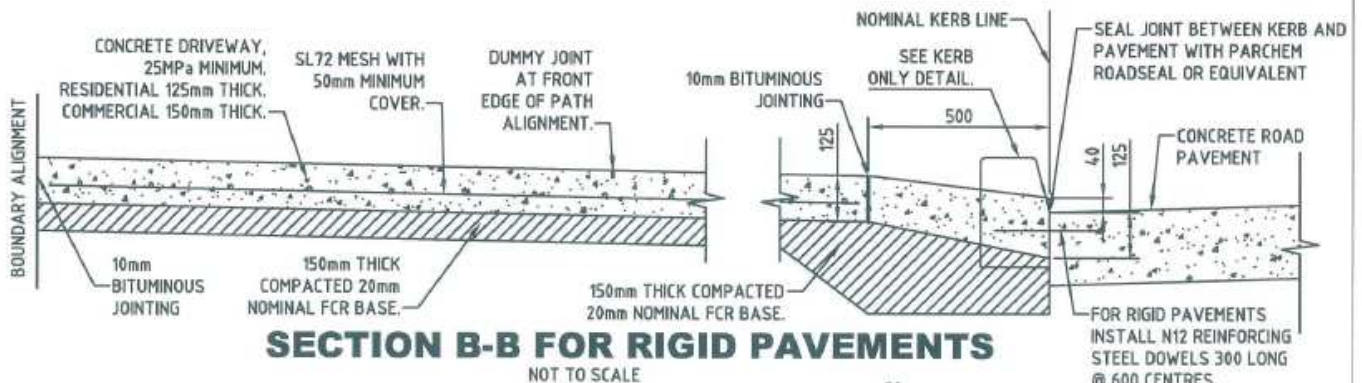
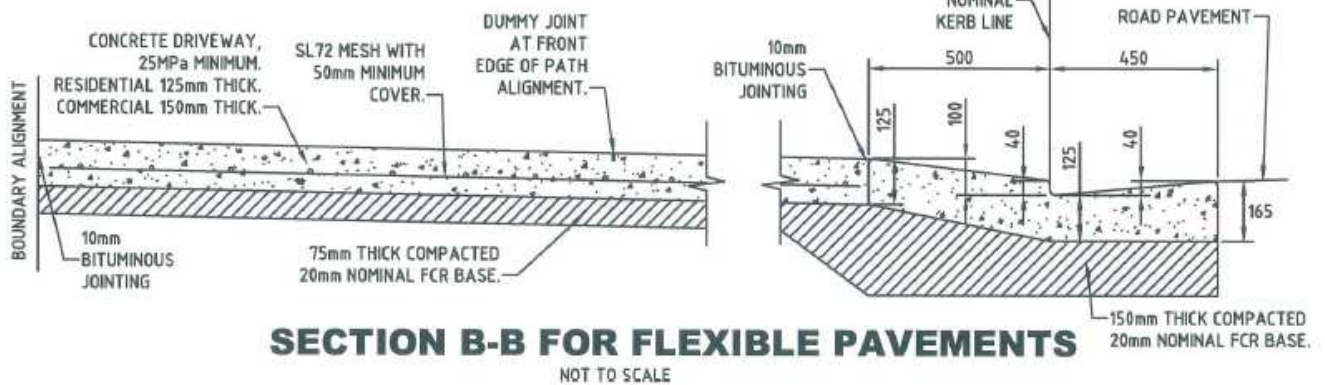
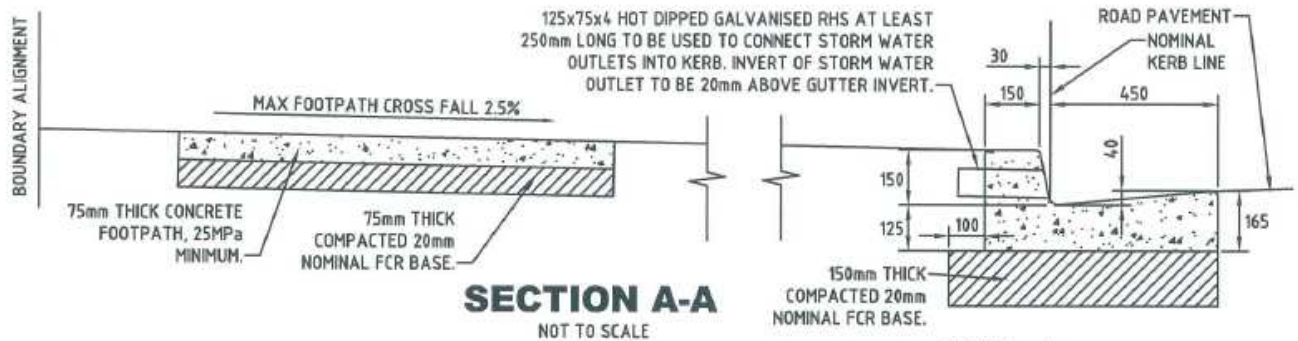
1. CONCRETE SHALL BE F'c= 25MPa, THICKNESS AS PER DIAGRAM.
2. CONCRETE FINISH
  - a. PLAIN CONCRETE ONLY. NO STENCILLED, STAMPED, COLOURING AGENTS OR STRIP CONCRETE IS PERMITTED.
  - b. ALL EDGES SHALL BE TOOL FINISHED WITH 12mm RADIUS, 50mm WIDE EDGING TOOL.
  - c. GUTTER AND LAYBACK SHALL BE FINISHED WITH A STEEL TROWEL.
  - d. KERB RAMP TO BE FINISHED WITH A WOOD FLOAT OR BROOM FINISHED.
3. BASE COURSE
  - KERB: 150mm THICK CONSOLIDATED FINE CRUSHED ROCK.
  - KERB RAMP & FOOTPATH: COMPACTABLE GRANULAR MATERIAL.
4. EXPANSION JOINTS SHALL BE PLACED AS SHOWN.
5. DURING AND ON COMPLETION OF WORK, ALL EXCAVATED MATERIAL FROM THE SITE SHALL BE REMOVED. LAYING OF TURF & TOPSOIL IS TO TAKE PLACE AS REQUIRED. THE SITE KEPT IN A CLEAN, SAFE AND TIDY CONDITION AT ALL TIMES. BARRICADES, FLASHING LIGHTS, AND ALL NECESSARY SAFETY SIGNS ARE TO BE ERRECTED AROUND THE SITE IN ACCORDANCE WITH AS1742.3 & AS1742.10. A SAFE PEDESTRIAN PATH SHALL BE PROVIDED & MAINTAINED AROUND THE SITE.
6. ALL DIMENSIONS SHOWN ON THE DIAGRAM ABOVE ARE IN MILLIMETRES.
7. REFER TO WILLOUGHBY CITY COUNCIL SPECIFICATIONS.


APPROVED:   
 ENGINEER: D. SUNG  
 DATE: NOVEMBER 2010

**WILLOUGHBY CITY COUNCIL**  
 VEHICULAR FOOTPATH CROSSING AND  
 KERB & GUTTER DETAILS



SHEET No: **1**  
 SCALE: NOT TO SCALE  
 TOTAL SHEETS: **2**  
 DRAWING No: **SD105**



APPROVED: 

ENGINEER: D. SUNG

DATE: NOVEMBER 2010

**WILLOUGHBY CITY COUNCIL**

VEHICULAR FOOTPATH CROSSING AND KERB & GUTTER DETAILS



SHEET No: **2**

SCALE: NOT TO SCALE

TOTAL SHEETS: **2**

DRAWING No: **SD105**