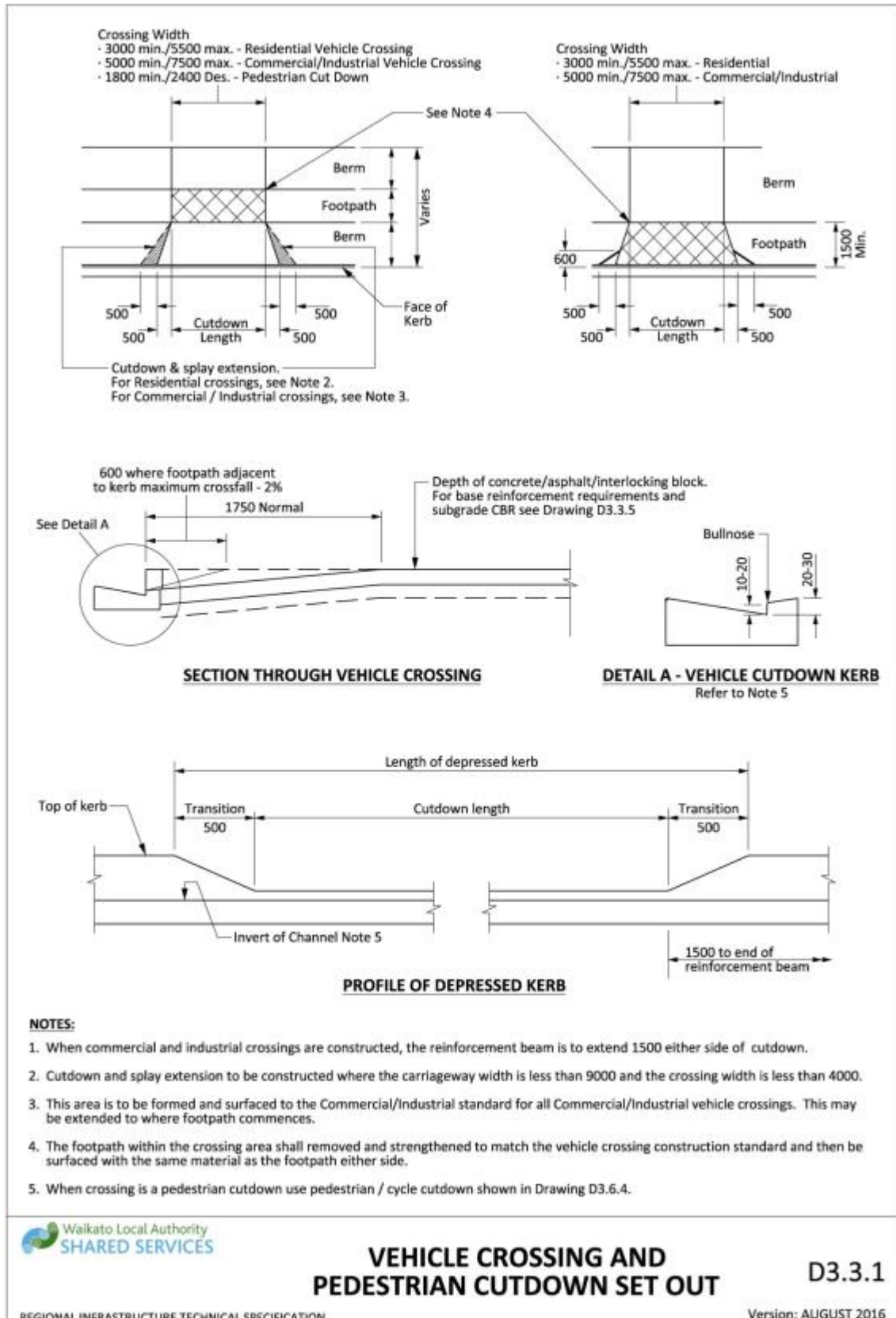
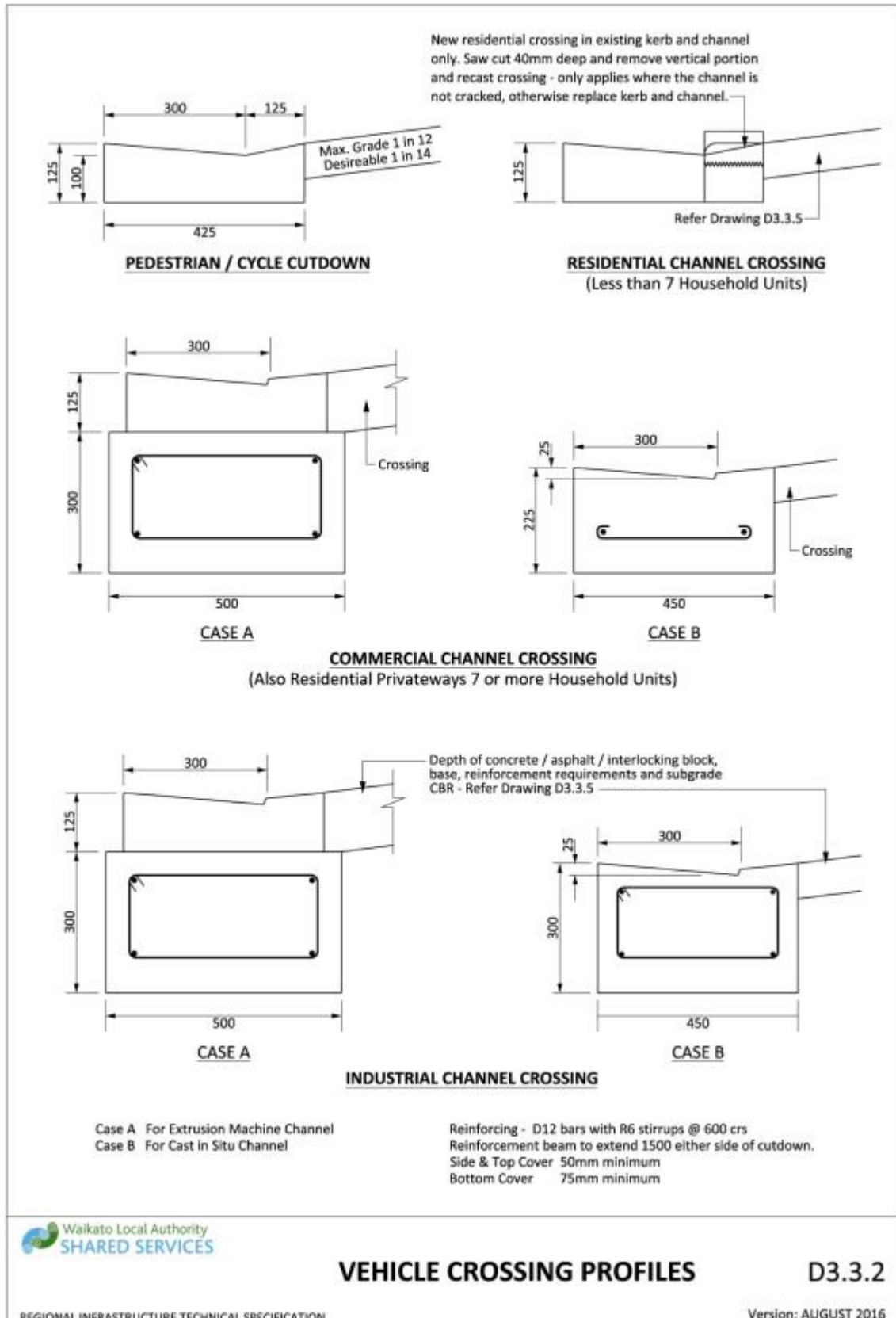


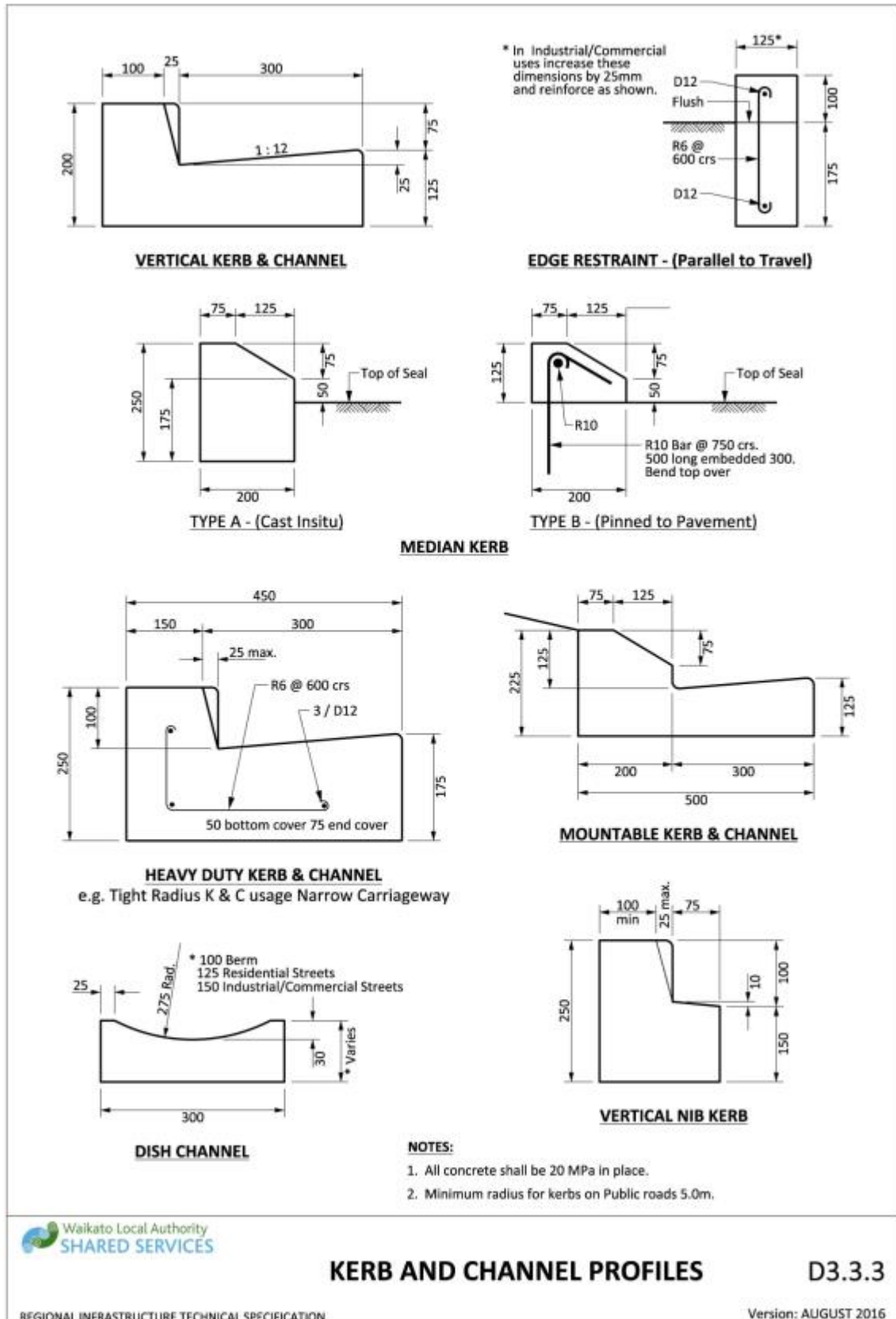
**Drawing 3-12: Trench reinstatement**



Drawing 3-13: Vehicle crossing and pedestrian cutdown set out



**Drawing 3-14: Vehicle crossing profiles**



Drawing 3-15: Kerb and channel profiles

**LONG SECTION**  
\* max of 1 : 12 Carriageway  
4m 1m  
\* 1:8 max if downhill  
3m Gate  
Extent of seal  
Culvert  
4.5.R  
5m  
≥ 4m  
8.0m  
Edge of Carriageway 12m  
**PLAN**  
**RESIDENTIAL < 2 ha**

**LONG SECTION**  
\* 1:8 max if downhill  
\* max of 1 : 12 Carriageway  
8m 1m  
4m Gate  
Extent of seal  
Culvert  
9.0.R  
9m  
≥ 4m  
12m  
Edge of Carriageway 22m  
**PLAN**  
**LIGHT COMMERCIAL 2 ha - 20 ha**  
(for light truck up to 12m long)

**LONG SECTION**  
\* max of 1 : 12 Carriageway  
14m 1m  
\* 1:8 max if downhill  
4.5m Gate  
Extent of seal  
Culvert  
15.0.R  
15.0m  
≥ 4m  
22m  
Edge of Carriageway 34.5m  
**PLAN**  
**HEAVY COMMERCIAL > 20 ha**  
(for medium rigid truck up to 18m long)

**NOTES:**

**1.0 GENERAL**

1.1 ALL WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE FOLLOWING NOTES AND TO THE SATISFACTION OF COUNCIL. Additional requirements to those shown on this drawing may be necessary for a particular location and will be determined on site.

1.2 The Contractor shall be responsible for traffic control while undertaking work within the road reserve and must obtain a CAR from Council.

1.3 The Contractor shall be responsible for the cost of repairs to any underground utility services damaged during construction. Any damage shall be rectified to the satisfaction of the Utility Owner.

1.4 A Rural Residential Vehicle Entrance is deemed to be adequate to accommodate a 5m long car turning into a property at a radius of 7.5m.

1.5 The centreline of entrance formation meets carriageway not <70 degrees.

1.6 See Drawing D3.3

**2.0 LOCATION**

2.1 Each entrance shall be located to provide clear sight distance in both directions in accordance with NZTA RTS6.

2.2 Separation distances shall be as indicated on Drawing D3.1.5

**3.0 CULVERT**

3.1 If an entrance crosses a public drain or water course the Contractor shall notify the Council who will need to agree to the culvert diameter, before installation.

3.2 If the entrance crosses a watertable or small drain (less than 2m wide by 0.5m deep), a 300mm diameter minimum Reinforced Concrete Rubber Ring Joint (R.C.R.R.J.) Class 4 pipe shall be installed with a minimum 200mm cover.

3.3 Any unsuitable bedding material including vegetation, topsoil and peat shall be removed and replaced in accordance with pipe manufacturers specifications.

3.4 All culverts shall be laid straight at a constant grade, a minimum of 4.0m from the edge of carriageway. Socket end shall always be uphill.

**4.0 SUBBASE**

4.1 A minimum CBR of 5% is required before placement of sub-base material. If this CBR cannot be achieved, Council's roading consent staff will advise how to proceed. This may involve an additional depth of pavement construction, or the installation of geosynthetics.

4.2 Pit sand, brown rock or similar material shall be placed, trimmed and compacted to provide minimum 150mm depth of subbase & total pavement of 250mm. The subbase shall be placed from the edge of the carriageway to the gate or cattlestop.

**5.0 BASECOURSE**

5.1 Clean good quality G.A.P. 40 basecourse metal shall be placed, trimmed and compacted to provide 100mm depth of basecourse from the carriageway to the gate or cattlestop.

5.2 The basecourse material shall be trimmed to provide a crown in the centre of the entrance to ensure adequate surface drainage away from the road seal or property boundary.

**6.0 SURFACING**

6.1 If the entrance is off a metal surfaced road, NO additional surfacing over the basecourse material will be required.

6.2 Each entrance off a sealed road shall be surfaced with a two coat bitumen/chip seal as a minimum surfacing standard. The surfacing shall be constructed with 180/200 grade bitumen and Grade 3 and 5 chip. The seal shall extend at least 5m, 9m & 15m as per sketches.

6.3 See Clause 3.3.10.2

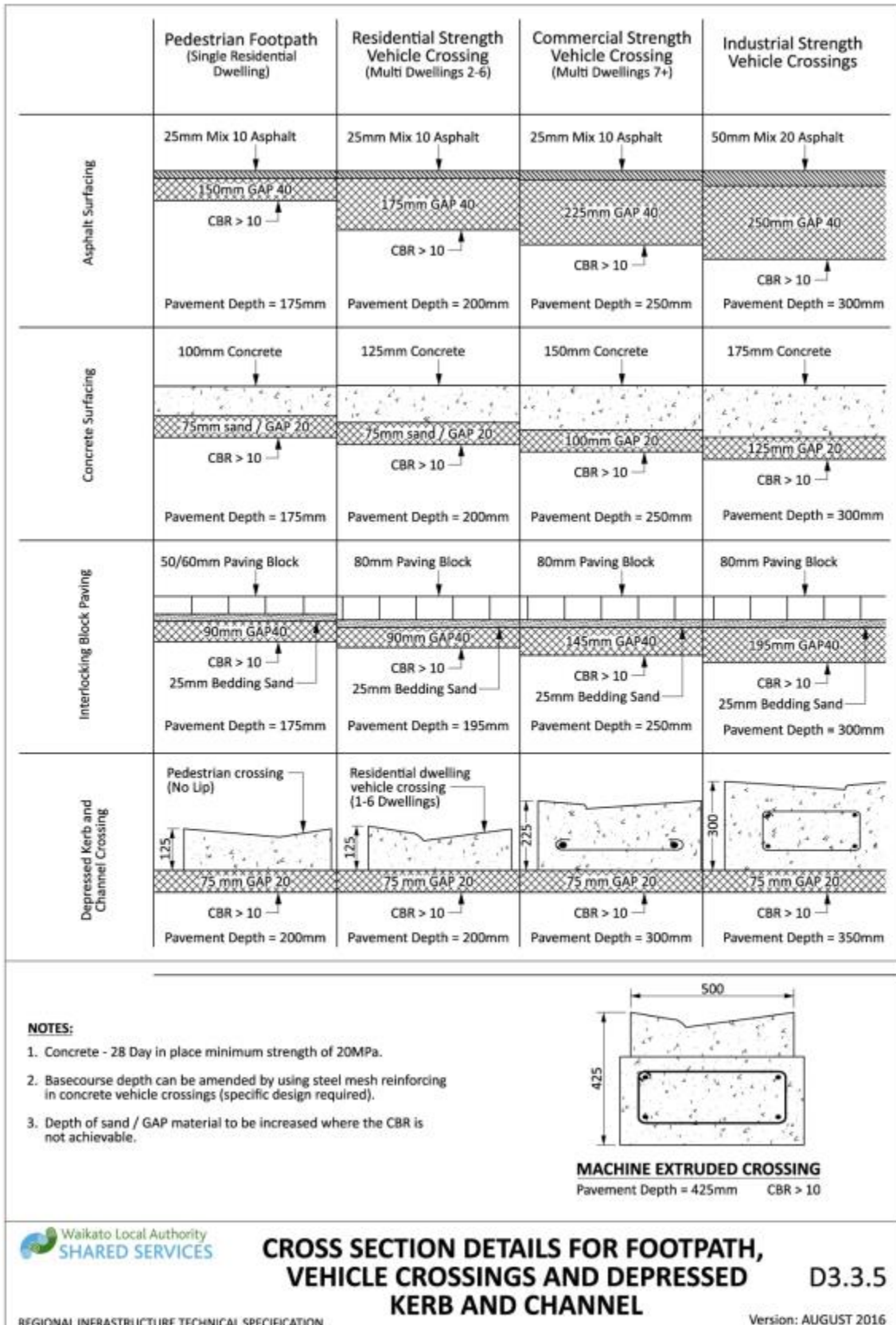
Waikato Local Authority  
**SHARED SERVICES**

**RURAL ENTRANCEWAYS -  
RESIDENTIAL, LIGHT AND  
HEAVY COMMERCIAL**

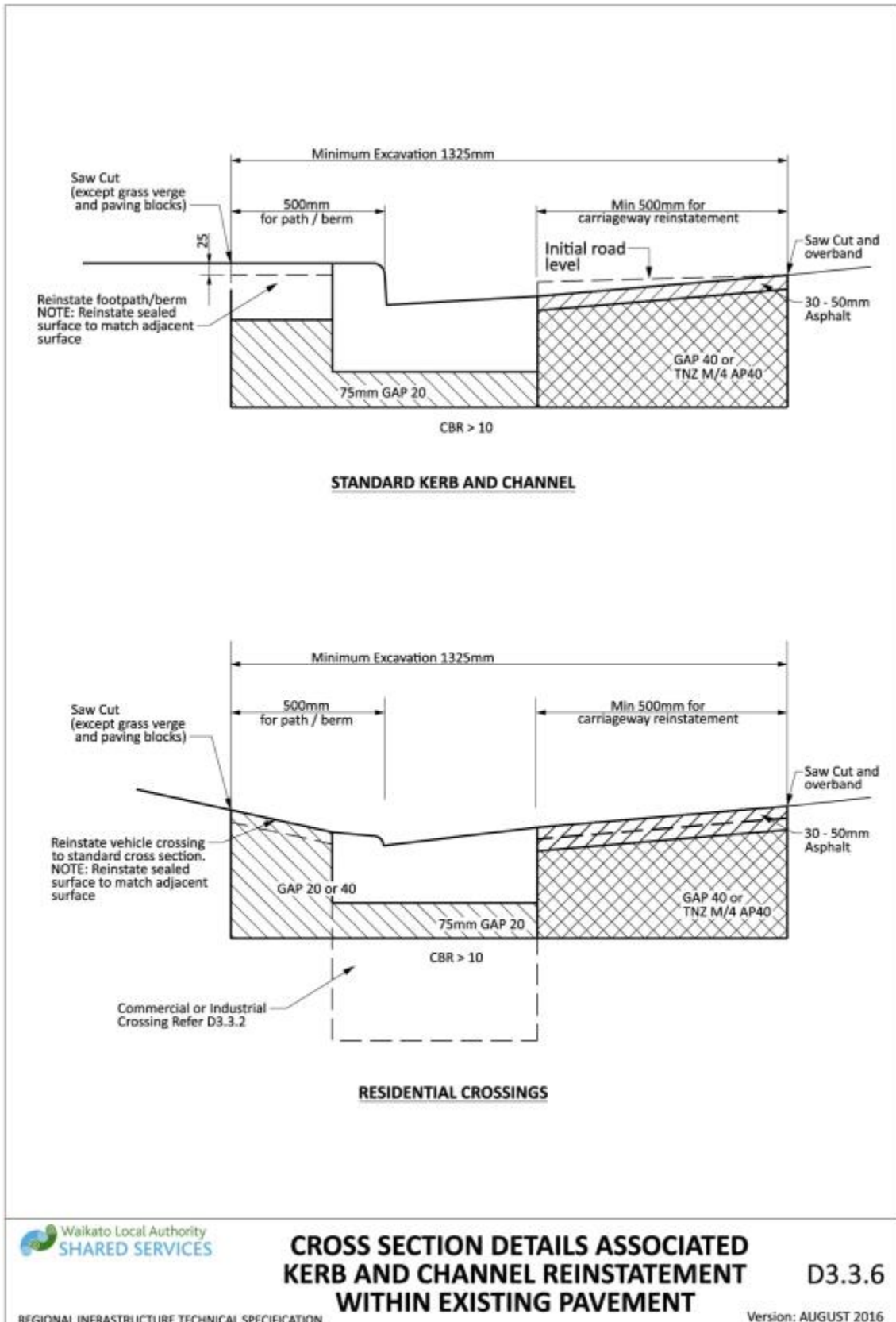
**D3.3.4**

REGIONAL INFRASTRUCTURE TECHNICAL SPECIFICATION Version: MARCH 2018

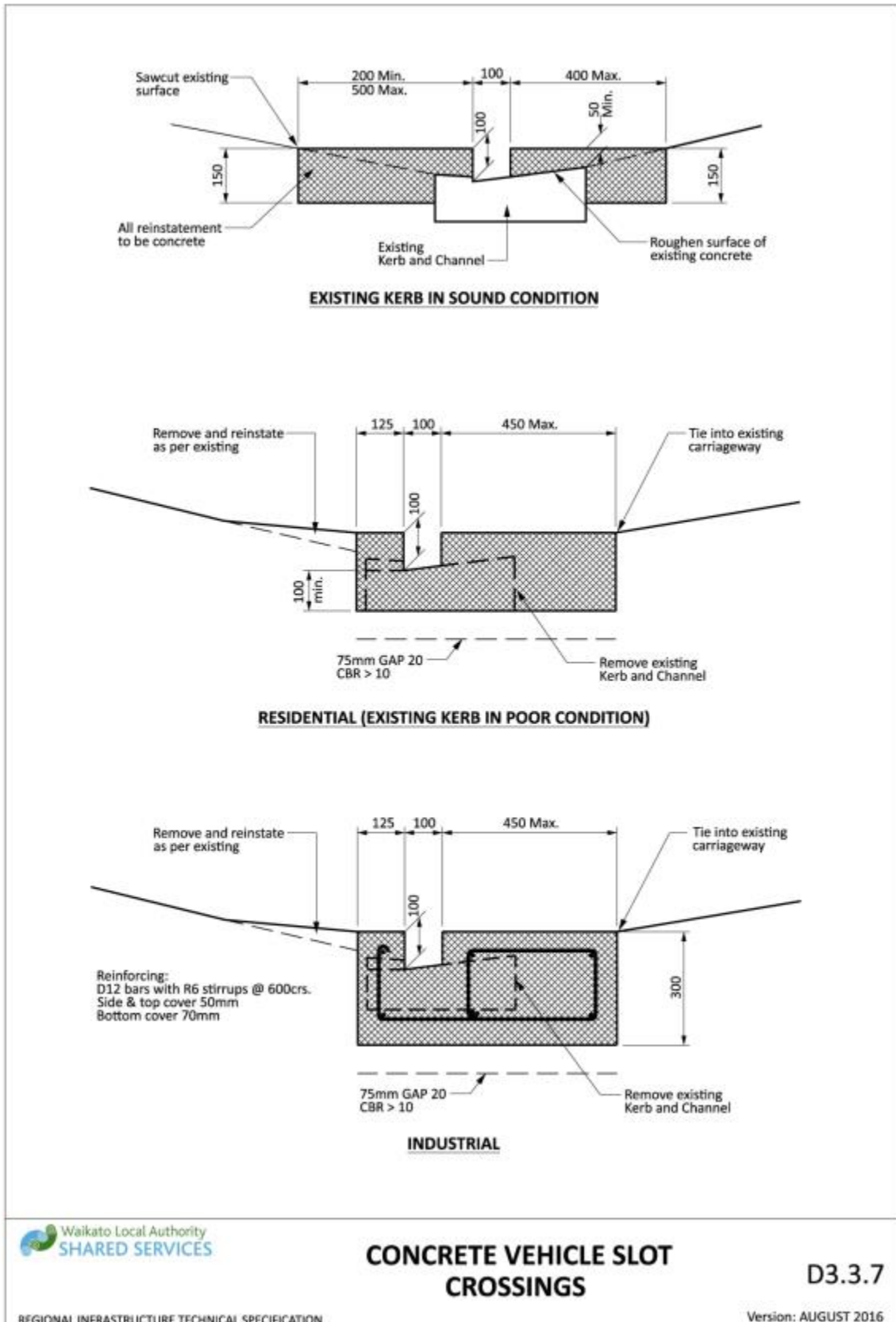
Drawing 3-16: Rural entranceways - residential, light and heavy commercial



**Drawing 3-17: Cross section details for footpath, vehicle crossings and depressed kerb and channel**



Drawing 3-18: Cross section details associated kerb and channel reinstatement within existing pavement



Drawing 3-19: Concrete vehicle slot crossings