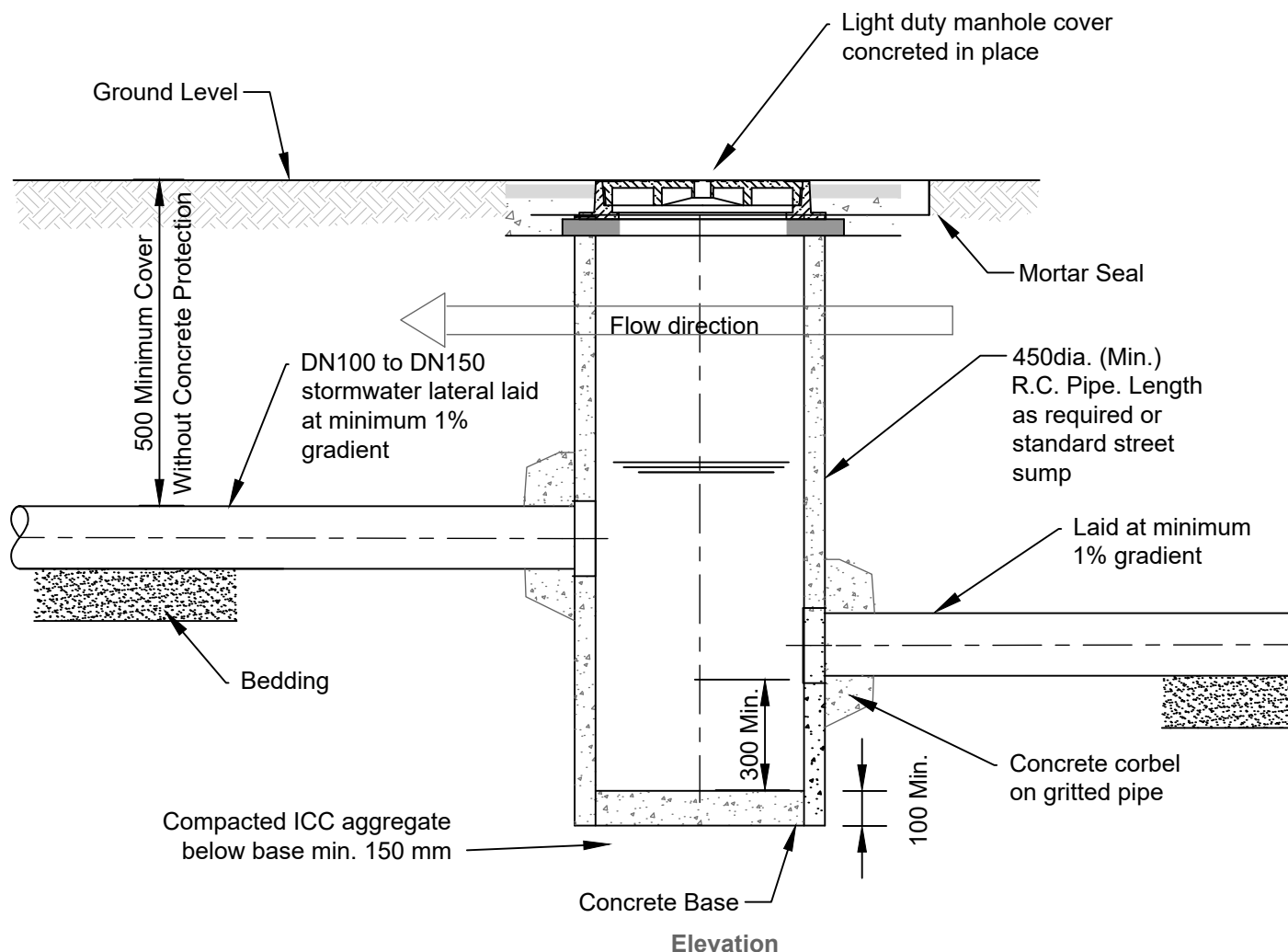
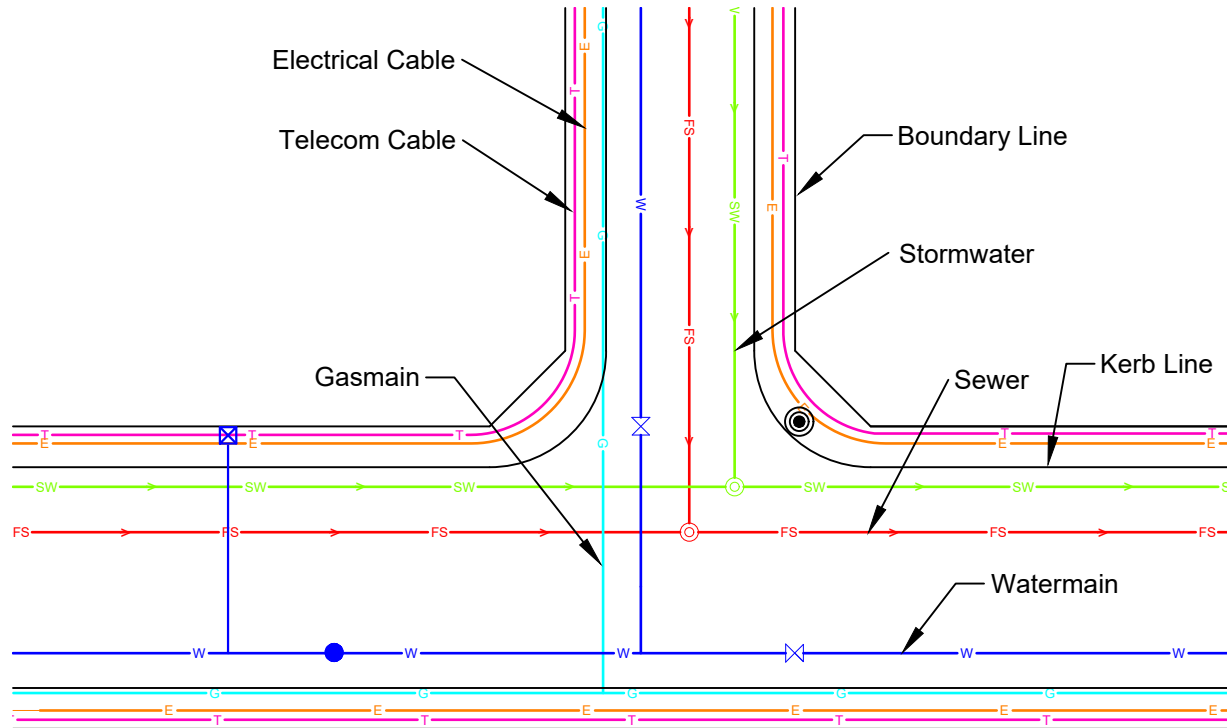




Notes.

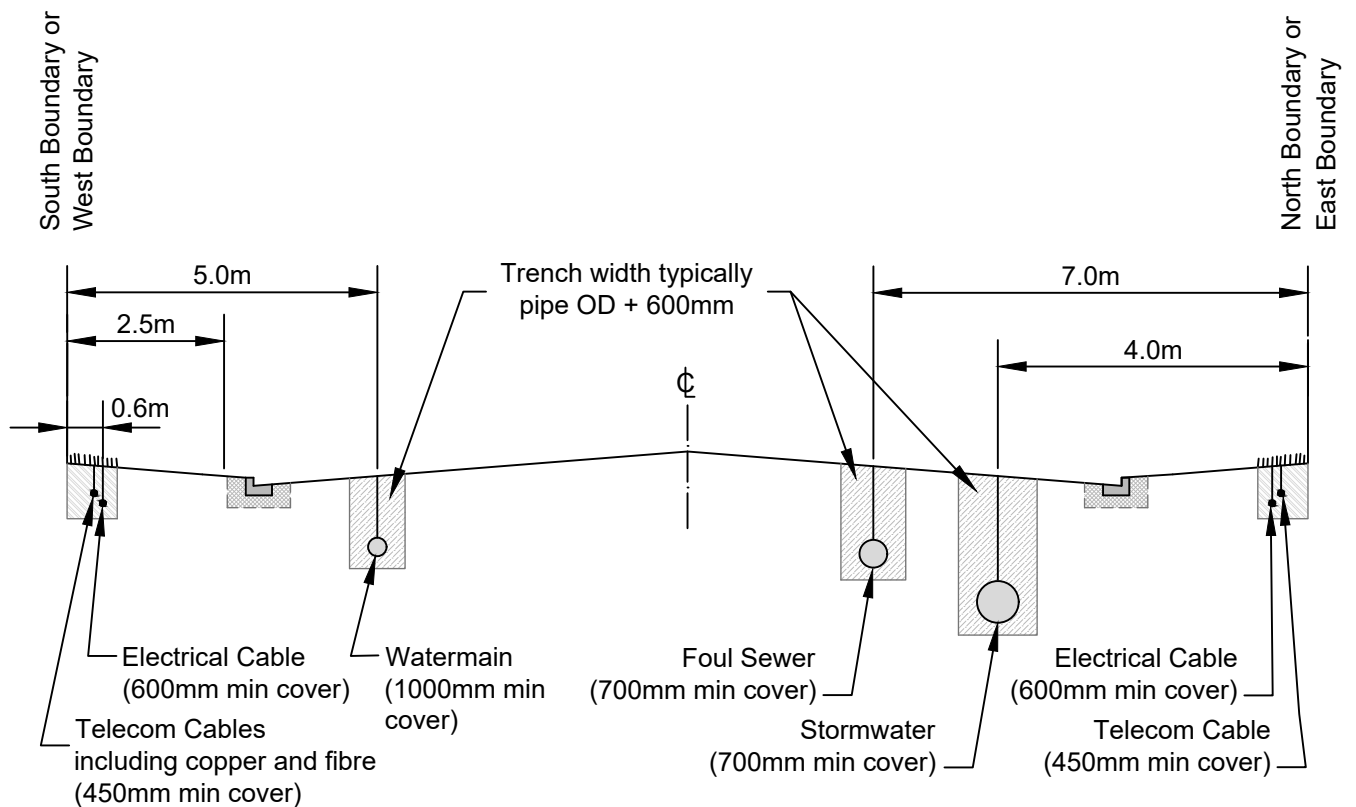
Concrete to be high grade 17.5 MPa to N.Z.S. 3104 Compacted granular bedding and surrounded to A.S./N.Z.S. 2566.2.

Not to SCALE



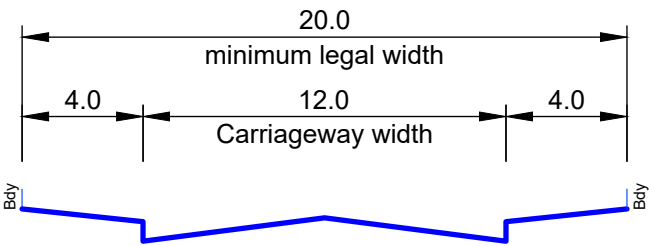
TYPE OF SERVICE	LINETYPE	SYMBOLS
Foul Sewer	FS	Manhole
Foul Sewer (Rising)	FS-R	Cleaning Eye
Foul Sewer (Abandoned)	FS-AB	Pump Station
Stormwater	SW	Manhole
Stormwater (Sealed)	SW-S	Cleaning Eye
Stormwater (Abandoned)	SW-AB	Pump Station
Watermain	W	Hydrant
Watermain (Supply)	W-SU	Valve
Watermain (Abandoned)	W-AB	Scour Valve
Gasmain	G	
Underground Electricity Cable	E	
Overhead Electricity Cables	E-OH	
Underground Telecom Cable	T	
Overhead Telecom Cable	T-OH	
		Standard Stone

Not to **SCALE**

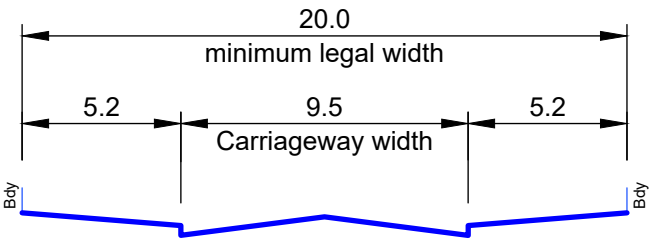


Not to **SCALE**

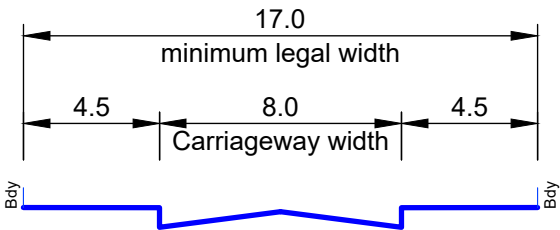
M2 - SIGNIFICANT ARTERIAL



M3 - MODERATE COLLECTOR

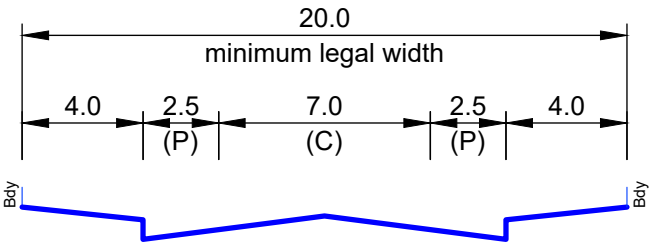


M4 - MINOR LOCAL

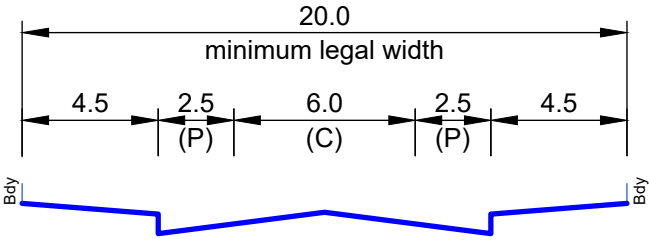


Not to **SCALE**

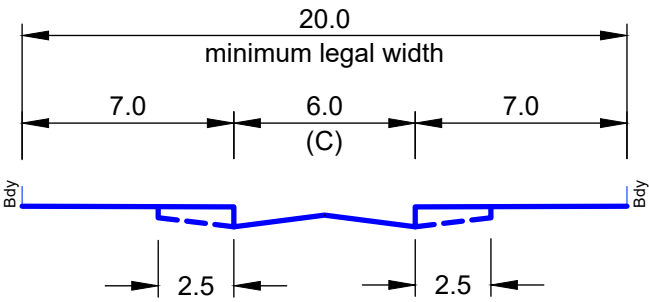
M2 SIGNIFICANT ARTERIAL



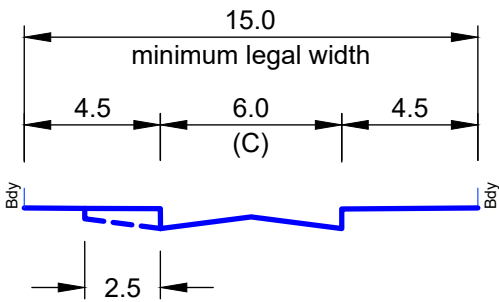
M3 MODERATE COLLECTOR



M4 MINOR LOCAL

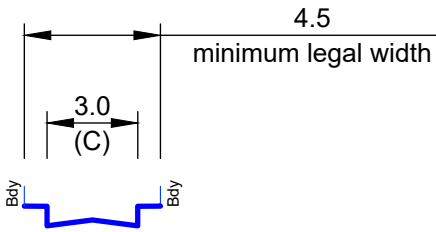


M5 LOW Cul-de-sac



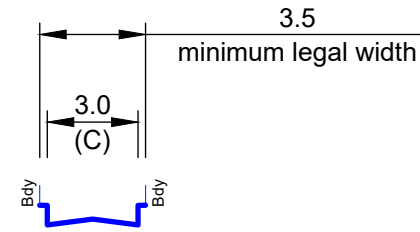
M5 LOW Private (ROW)

Passing bays (with a minimum 6m carriageway width) are required every 50m in urban areas
Where a private way adjoins a Collector or higher, it shall also have a 6m carriageway width for a minimum length of 6m from the road boundary



M5 LOW Private (ROW)

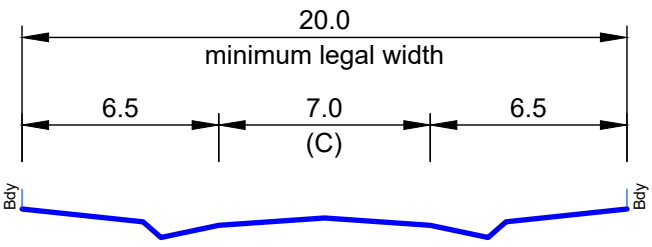
Passing bays (with a minimum 6m carriageway width) are required every 50m in urban areas
Where a private way adjoins a Collector or higher, it shall also have a 6m carriageway width for a minimum length of 6m from the road boundary



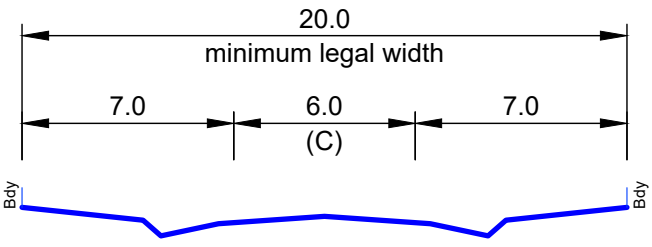
(C) Carriageway width

Not to **SCALE**

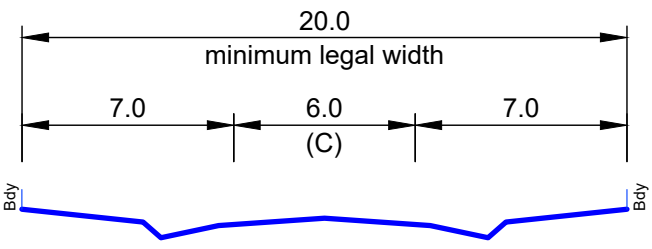
M2 SIGNIFICANT ARTERIAL



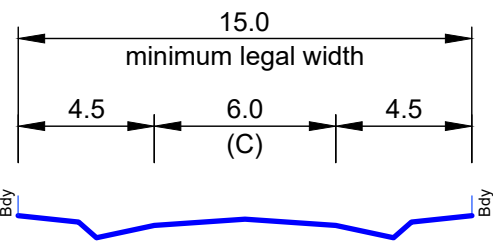
M3 MODERATE COLLECTOR



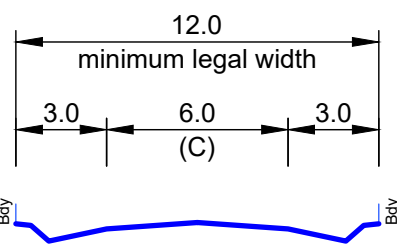
M4 MINOR LOCAL



M5 LOW Long Cul-de-sac (<100m)

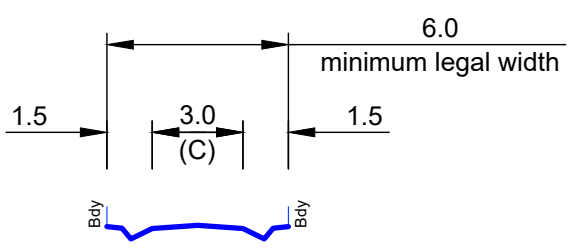


M5 LOW Short Cul-de-sac (<100m)



M5 LOW Private (ROW)

Passing bays (with a minimum 6m carriageway width) are required every 50m in urban areas
Where a private way adjoins a Collector or higher, it shall also have a 6m carriageway width for a minimum length of 6m from the road boundary



(C) Carriageway width

Not to **SCALE**

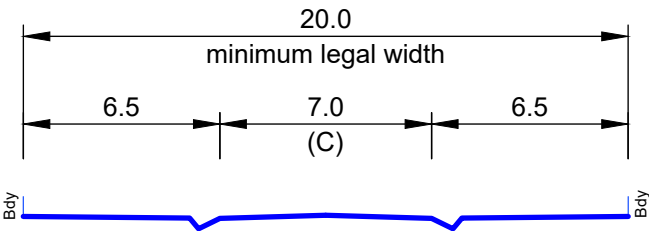


STANDARD ROAD WIDTHS
RURAL / RURAL LIFESTYLE

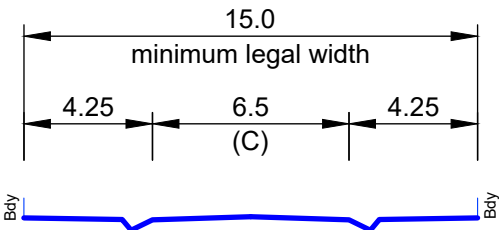
Figure
R3B

Revision: ##
Date: 03/25

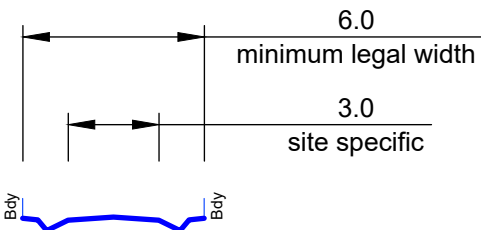
M3 MODERATE COLLECTOR



M4 MINOR LOCAL

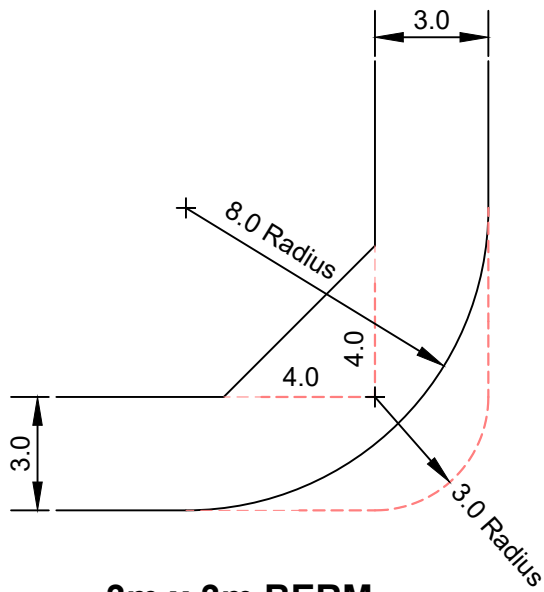


M5 LOW TRACK

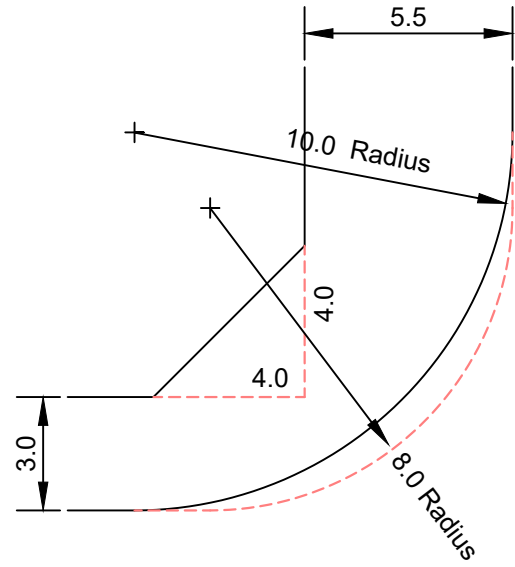


(C) Carriageway width

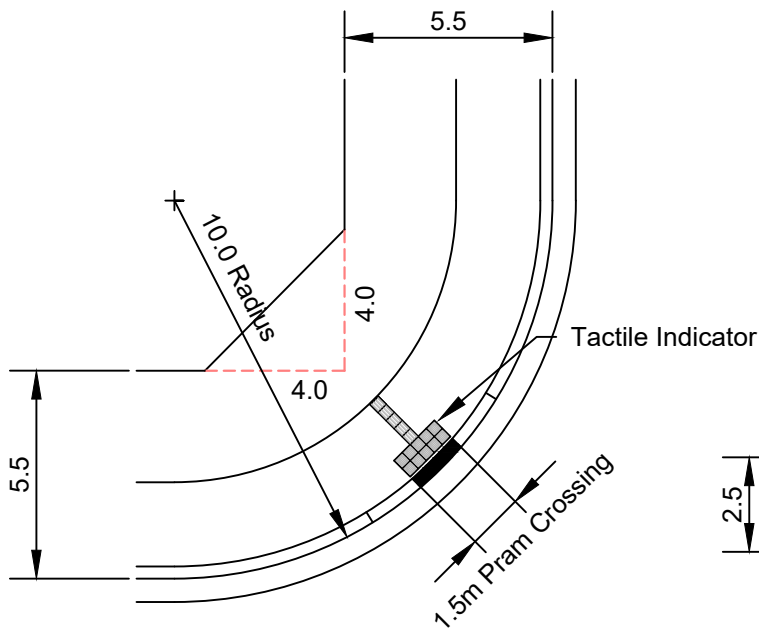
Not to **SCALE**



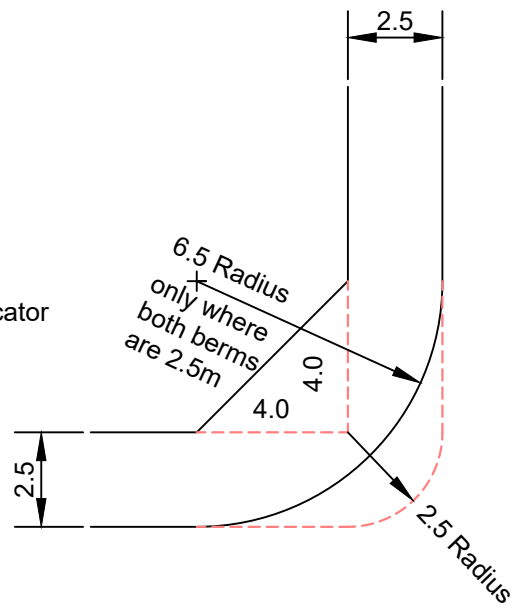
3m x 3m BERM



3m x 5.5m BERM

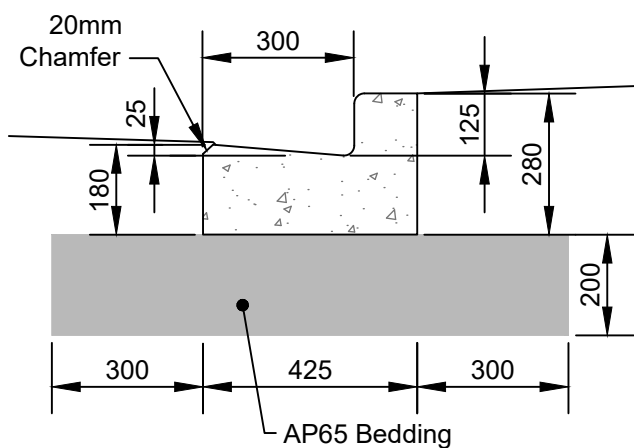


**5.5m x 5.5m BERM
SHOWING TYPICAL
'PRAM' CROSSING AND
TACTILE INDICATOR**

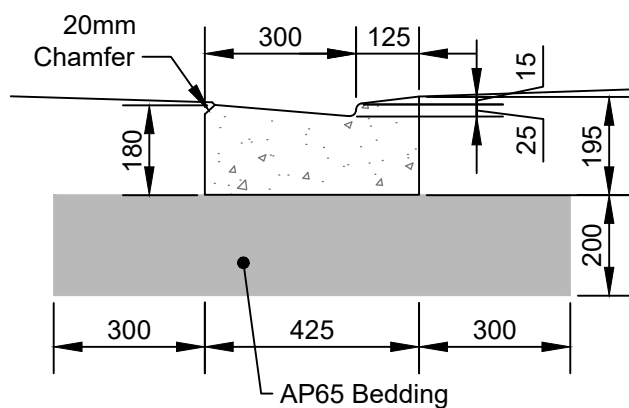


2.5m x 2.5m BERM

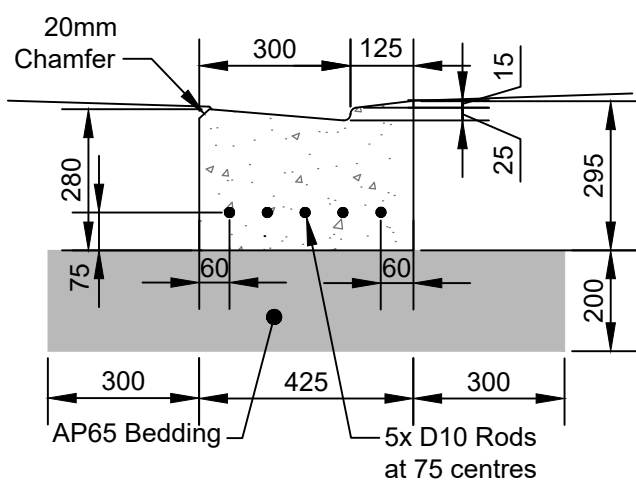
Not to SCALE



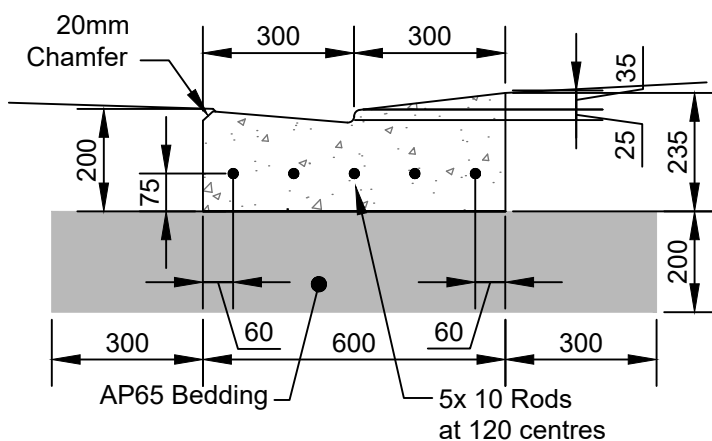
**STANDARD KERB
AND CHANNEL**



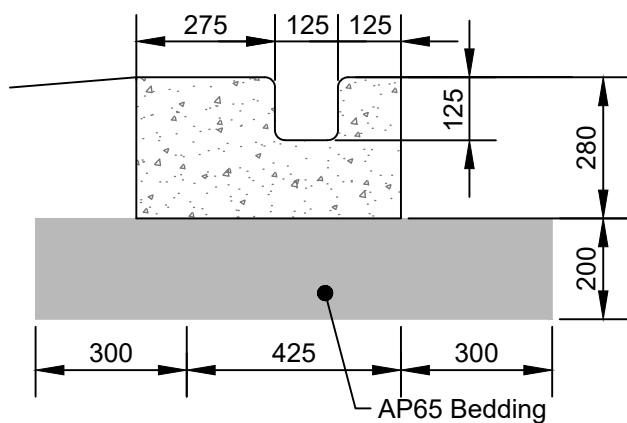
**CROSSING KERB
AND CHANNEL**



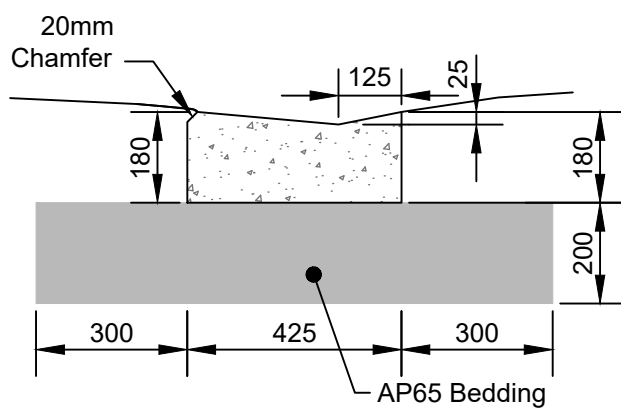
**HEAVY DUTY SLIP FORMED
CROSSING KERB AND CHANNEL**



**HEAVY DUTY VEHICLE CROSSING
KERB AND CHANNEL**



SLOT CROSSING

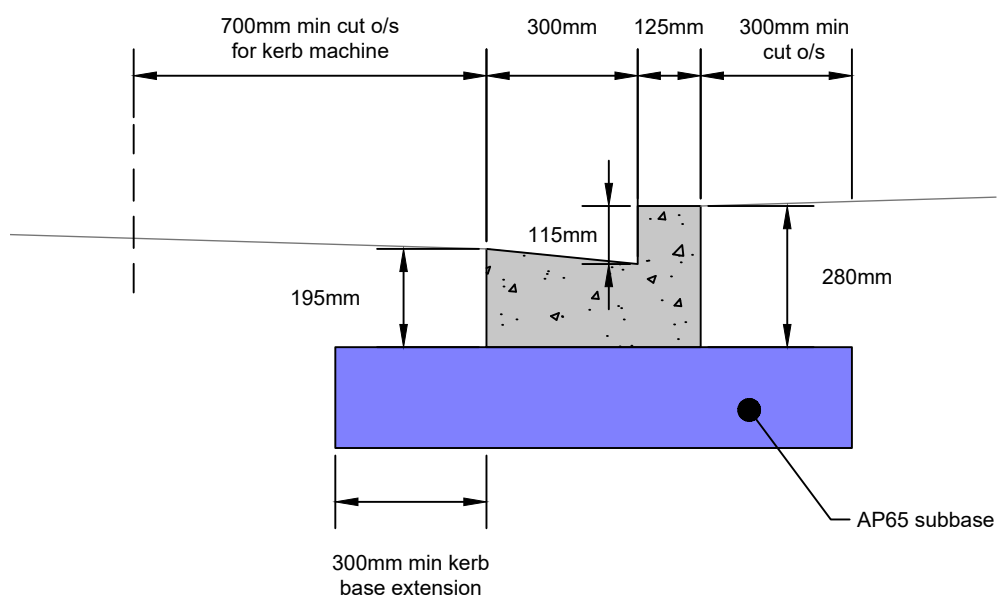


PRAM CROSSING

Notes

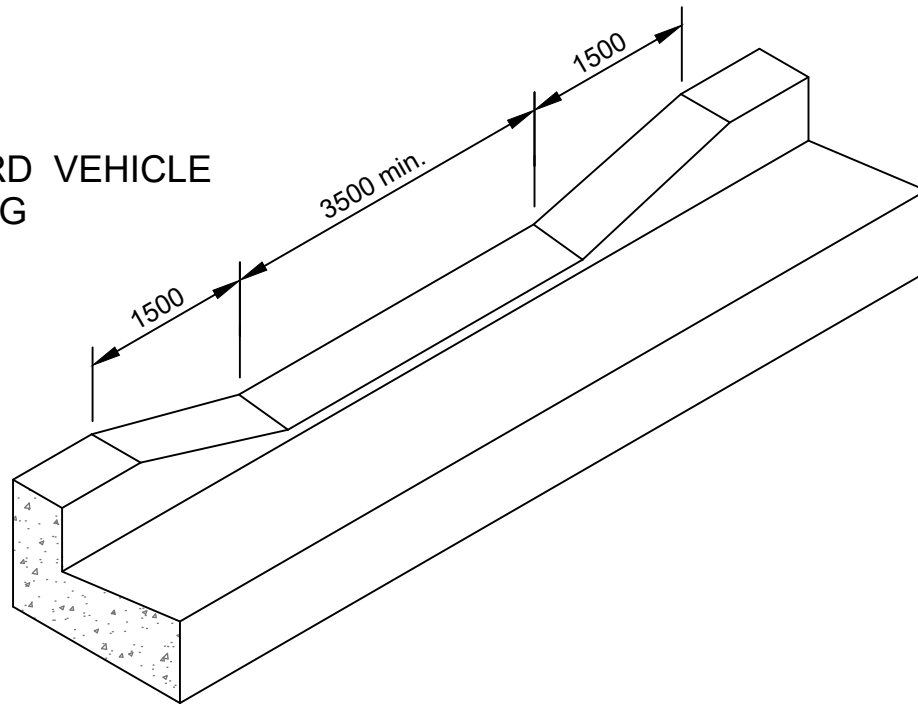
1. All radii to be 20mm min.
2. All concrete to be 20MPa (min) certified concrete to NZS 3104.
3. Clegg Impact Value of bedding to be 35 (min.)
4. All Kerb and Channel to be constructed with one pour.

Not to SCALE

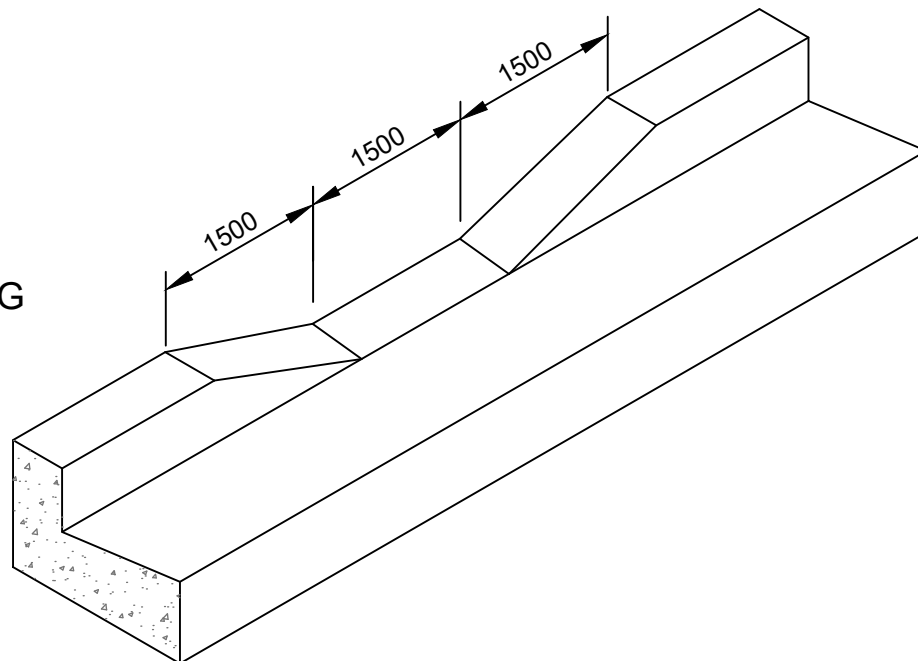


Not to **SCALE**

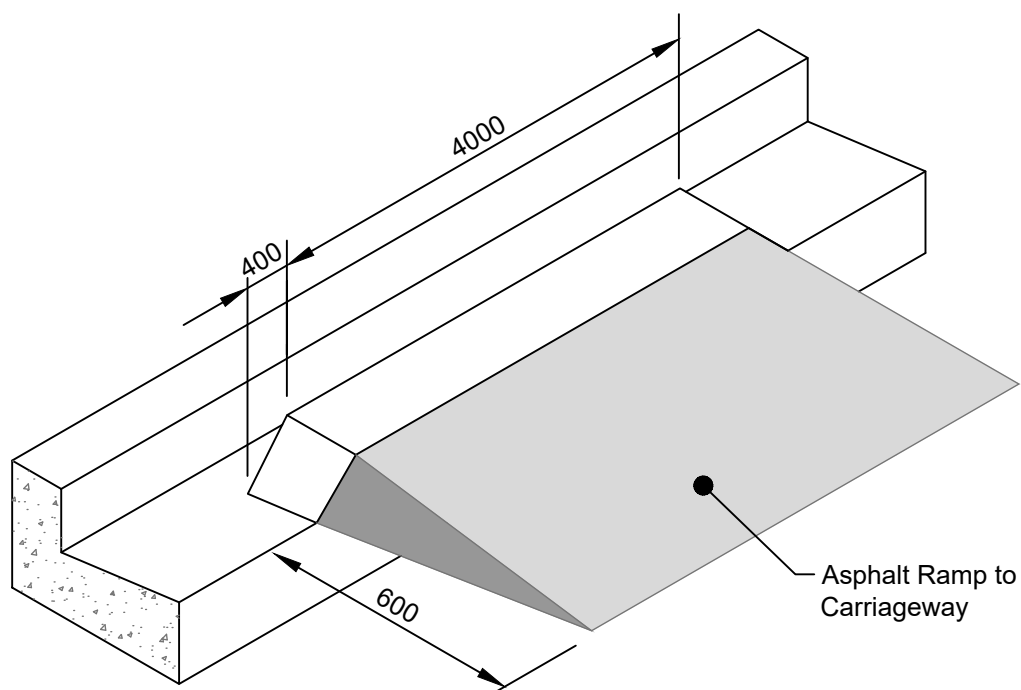
STANDARD VEHICLE
CROSSING



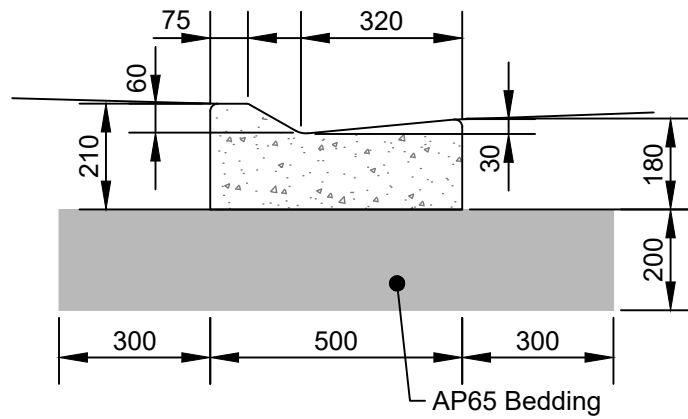
PRAM
CROSSING



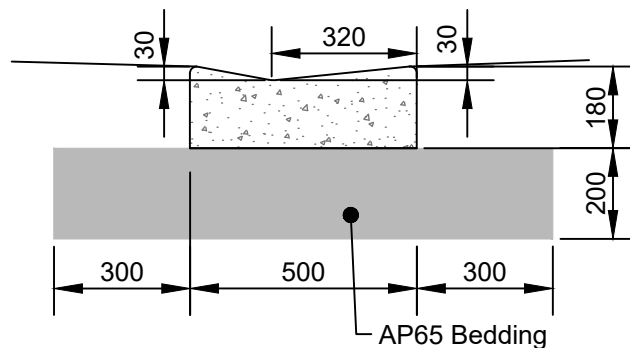
Not to **SCALE**



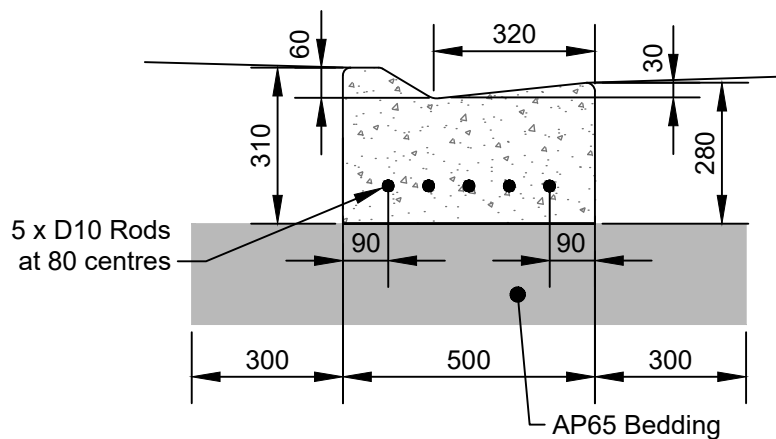
Not to **SCALE**



**MOUNTABLE KERB
AND CHANNEL**



**MOUNTABLE KERB AND CHANNEL
PRAM CROSSING**

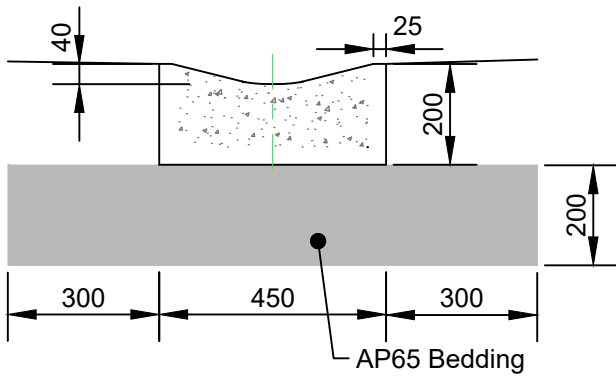


**HEAVY DUTY MOUNTABLE
KERB AND CHANNEL**

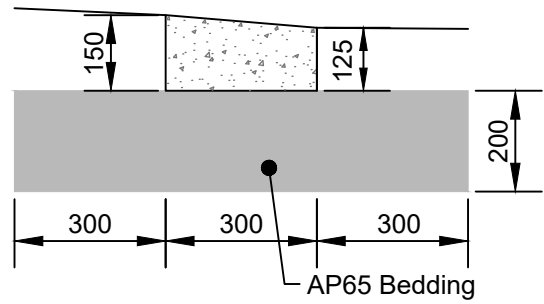
Notes

1. All radii to be 20mm min.
2. All concrete to be 20MPa (min) certified concrete to NZS 3104
3. Clegg Impact Value of bedding to be 35 (min.)
4. All Kerb and Channel to be constructed with one pour.

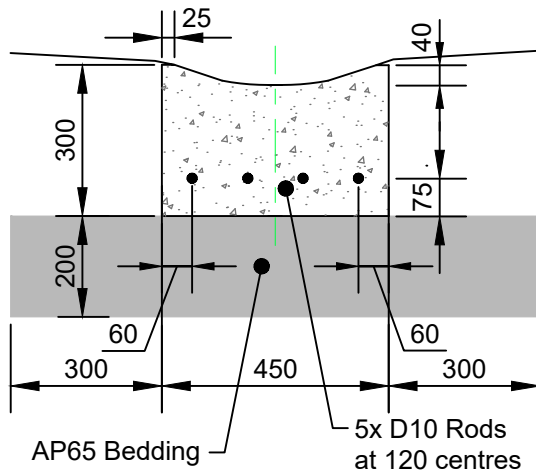
Not to SCALE



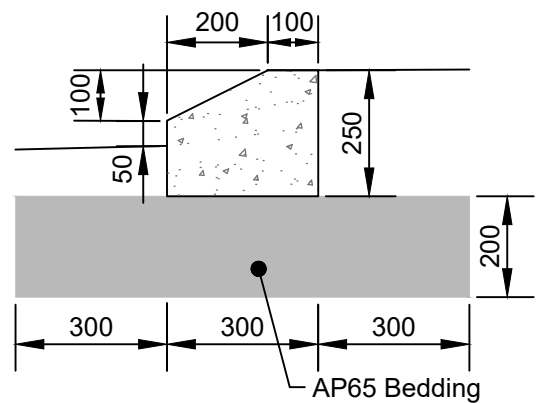
DISH CHANNEL



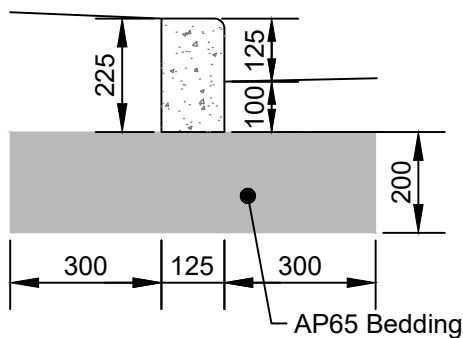
ROAD EDGE



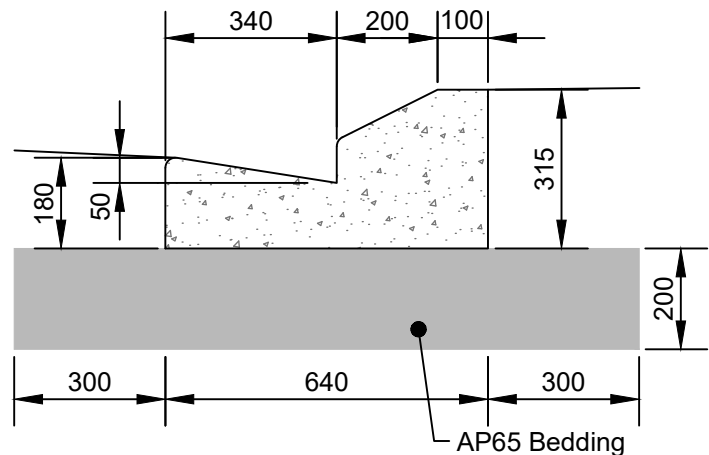
HEAVY DUTY DISH CHANNEL



**TRAFFIC ISLAND
MOUNTABLE KERB**



KERB ONLY

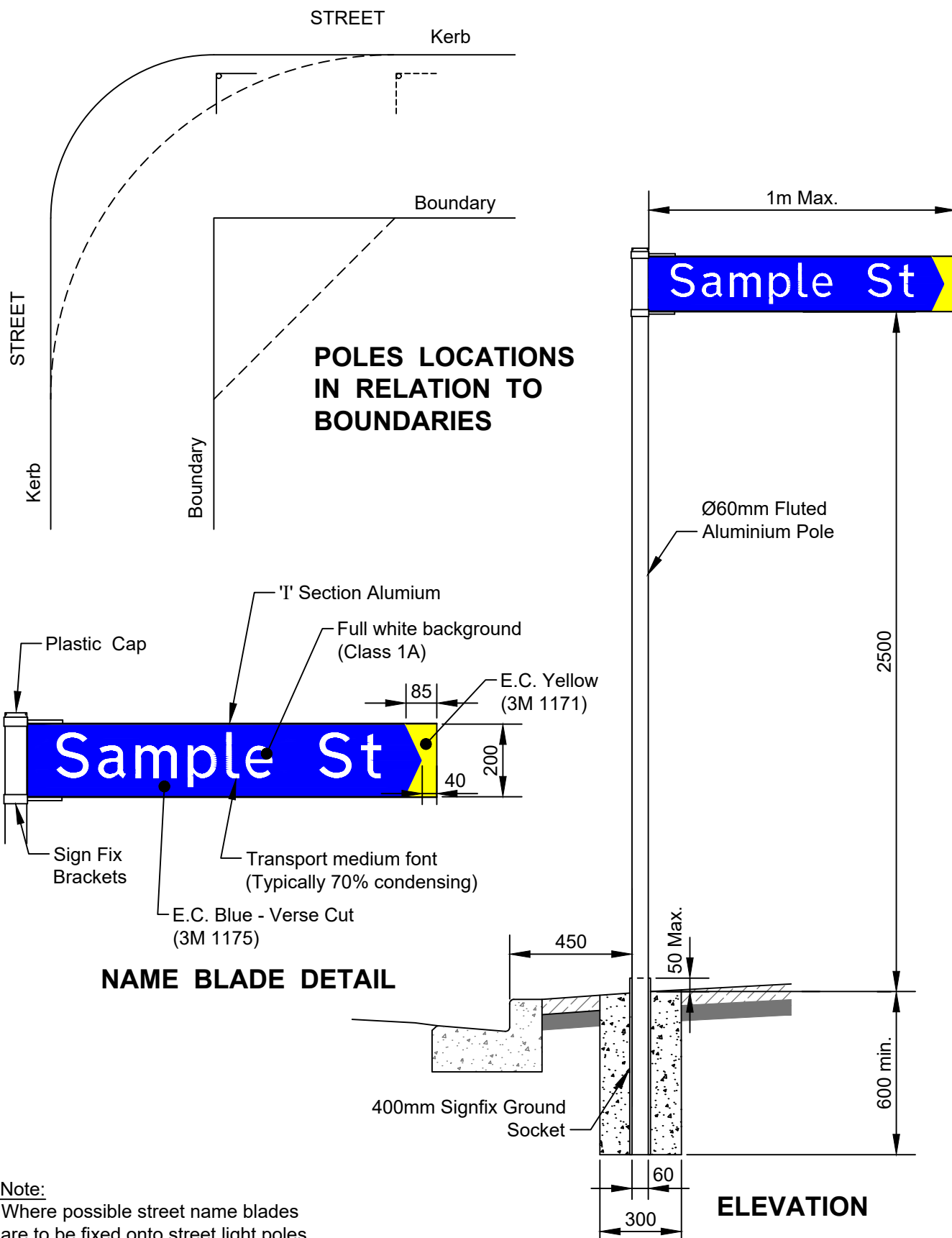


**TRAFFIC ISLAND
MOUNTABLE KERB AND CHANNEL**

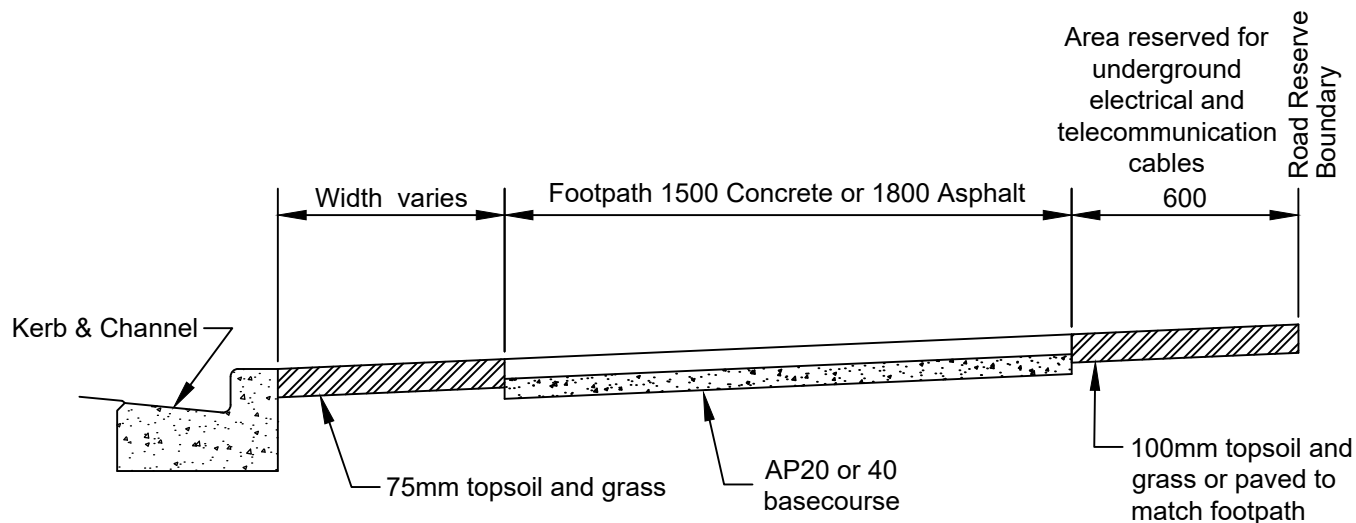
Notes

1. All radii to be 20mm (min).
2. All concrete to be 20MPa (min) certified concrete to NZS 3104.
3. Clegg Impact Value of bedding to be 35 (min).
4. All Dish and Kerbs to be constructed with one pour.

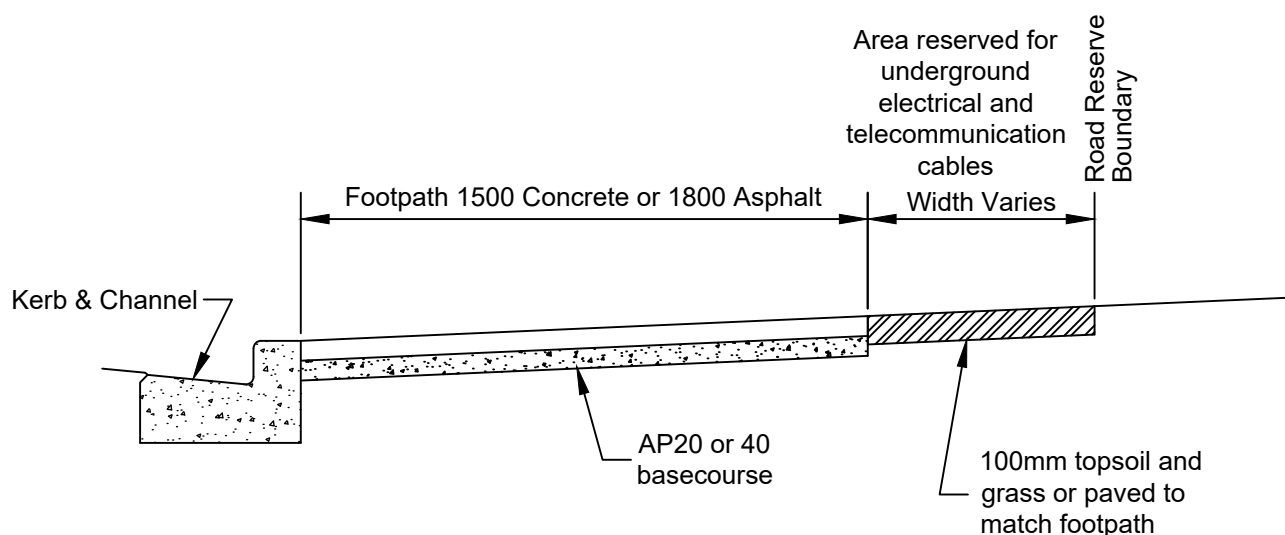
Not to SCALE



Not to **SCALE**



FOOTPATH CONSTRUCTION AT BOUNDARY



FOOTPATH CONSTRUCTION AT KERB LINE

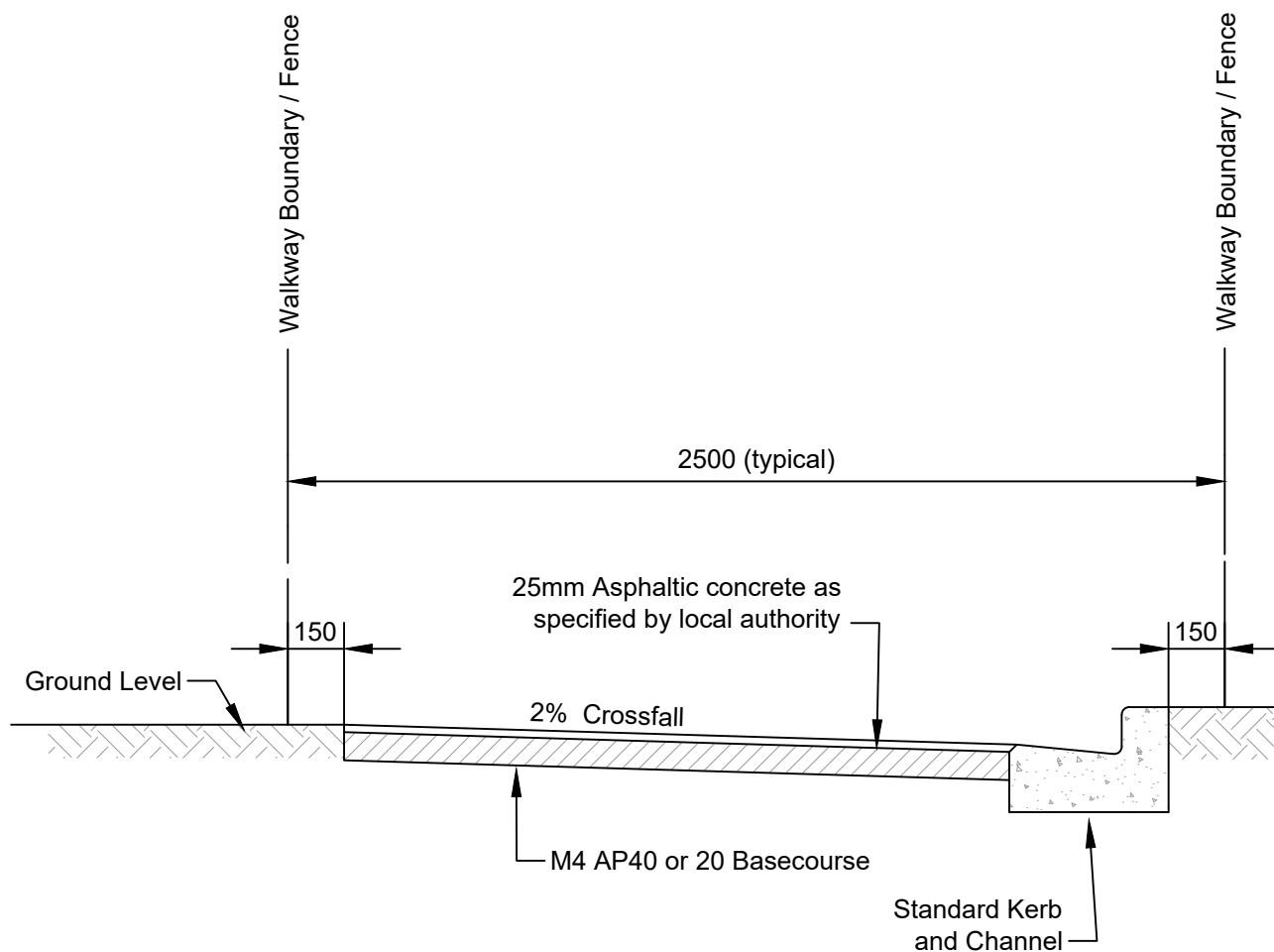
	Basecourse Depth	Paving Depth
Concrete	100mm	100mm
Asphalt	100mm	25mm

FOOTPATH CONSTRUCTION DETAILS

Note:

1. Crossfall of berm and footpath 2.0% unless approval given by Engineer.
2. Clegg Impact Value to basecourse to be 30 (min).
3. All concrete to be 20MPa (min) certified concrete to NZS 3104.

Not to SCALE



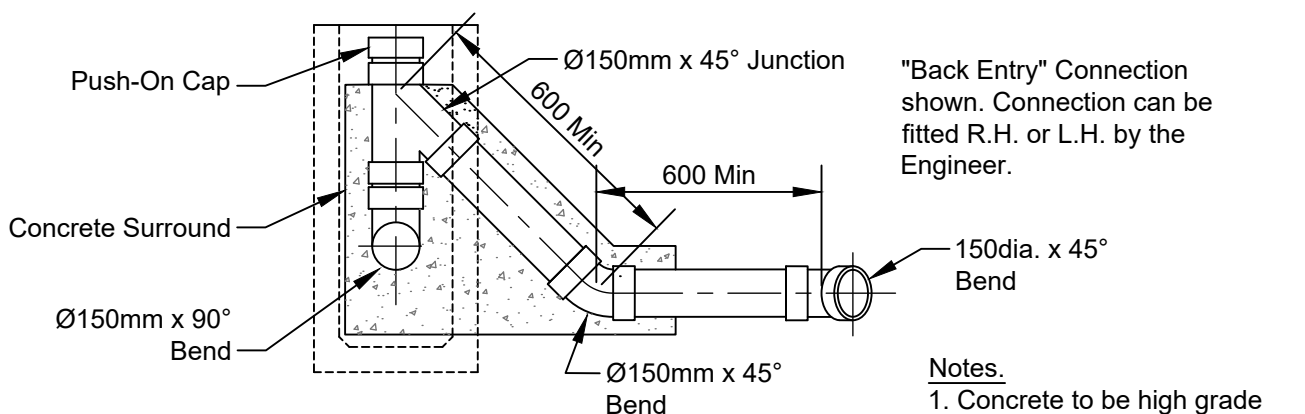
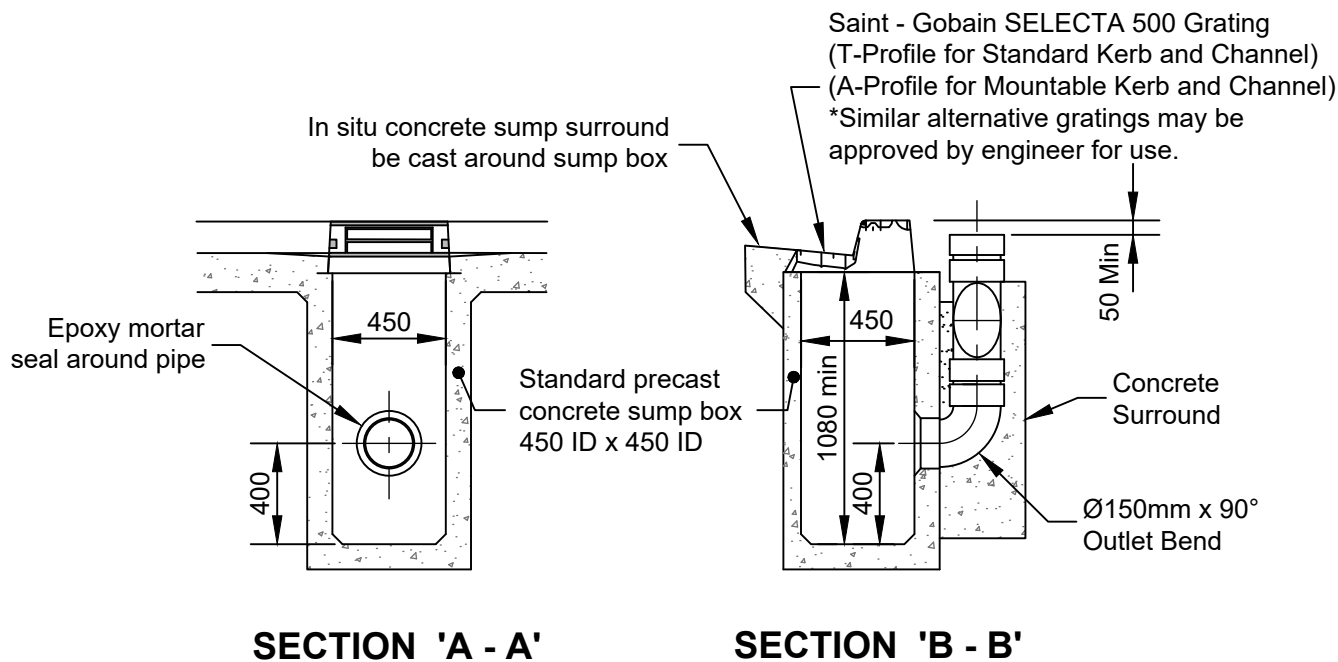
	Basecourse Depth	Paving Depth
Concrete	100mm min	100mm
Asphalt	100mm min	25mm min

ACCESSWAY CONSTRUCTION DETAILS

Note:

1. Clegg Impact Value of basecourse to be 30 (min)
2. All concrete to be 20MPa (min) certified concrete to NZS 3104.

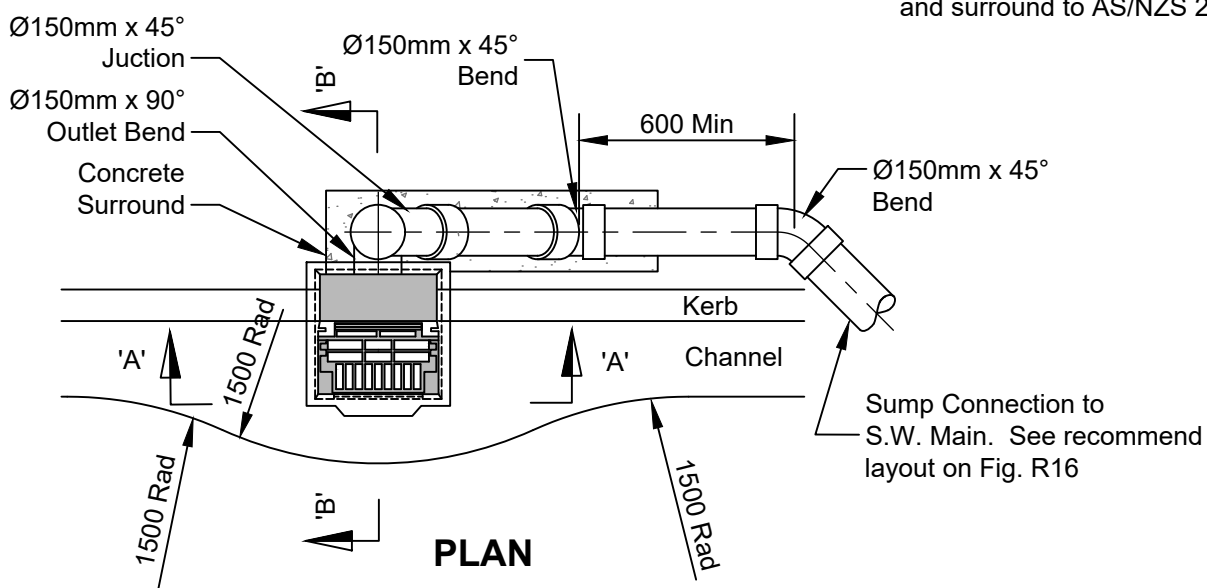
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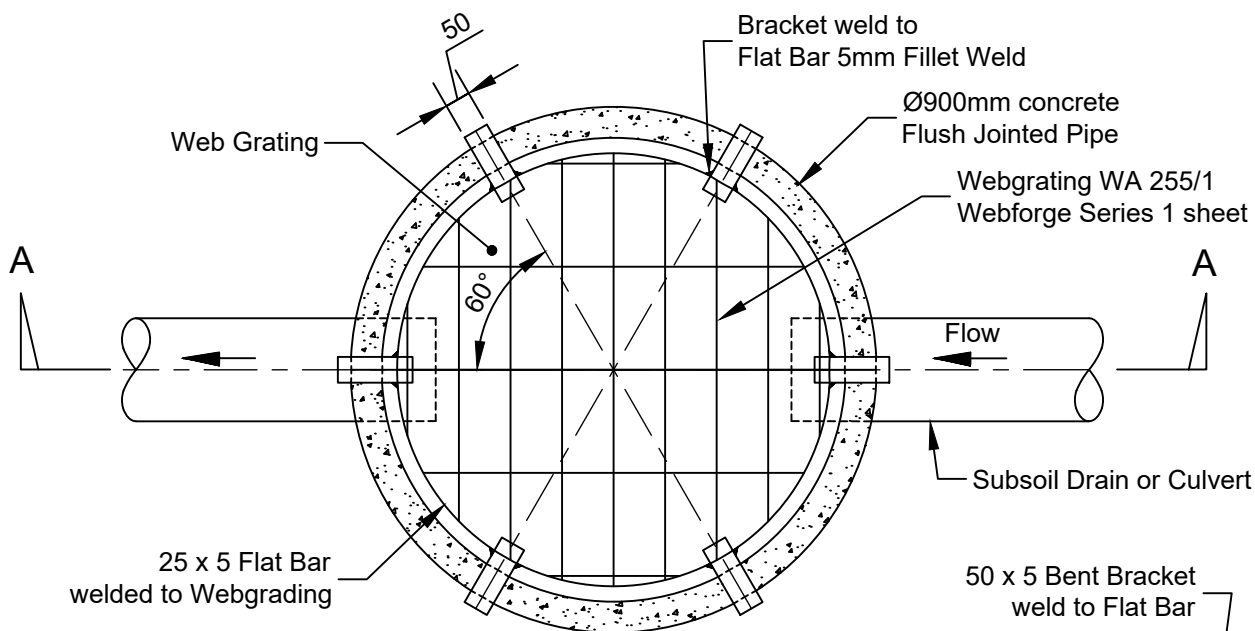
Detail of connection at back of sump

Notes.

1. Concrete to be high grade 17.5 min MPa to N.Z.S. 3104
2. Compacted granular bedding and surround to AS/NZS 2566.2

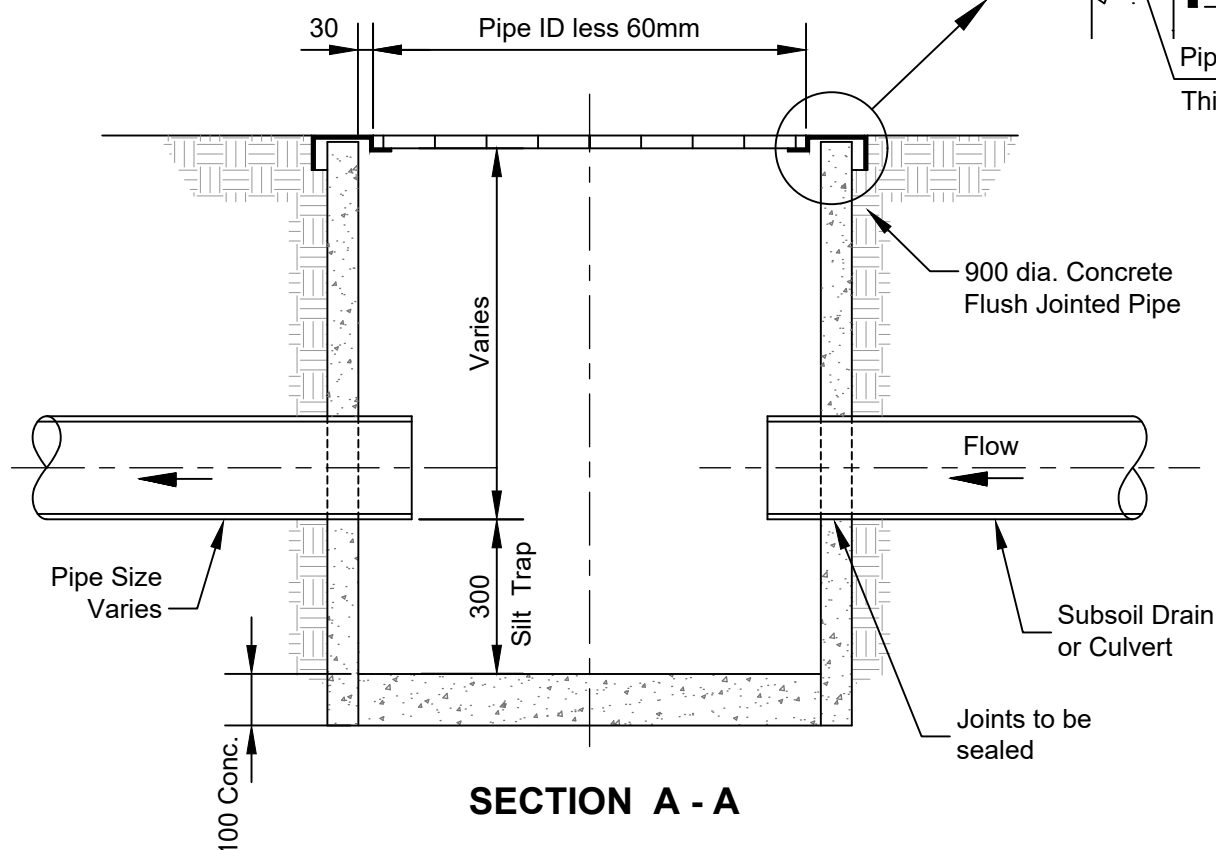
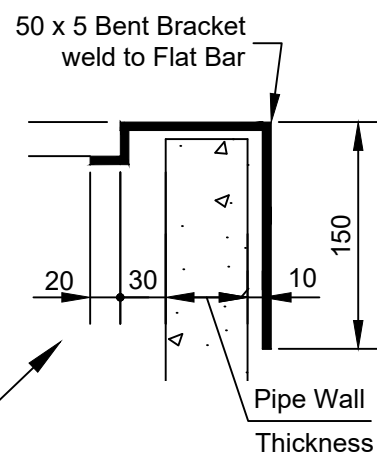


Not to SCALE

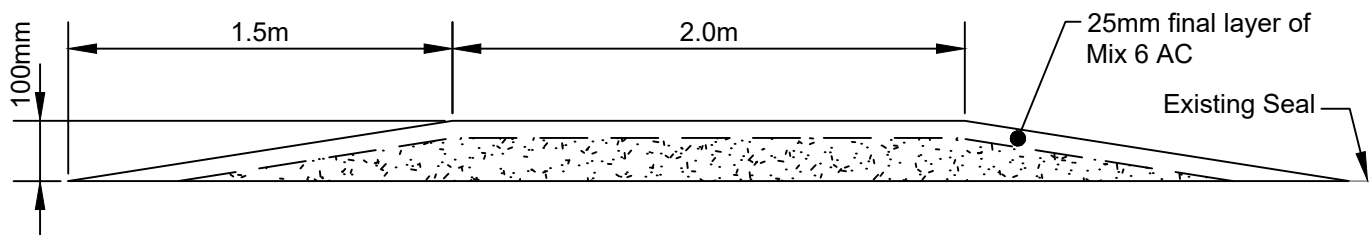


Notes

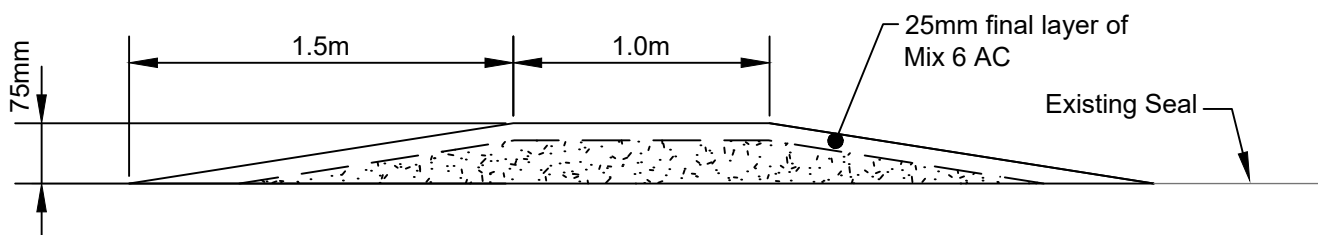
1. Contractor to confirm all dimension on site prior to construction
2. Webgrating to be galvanised



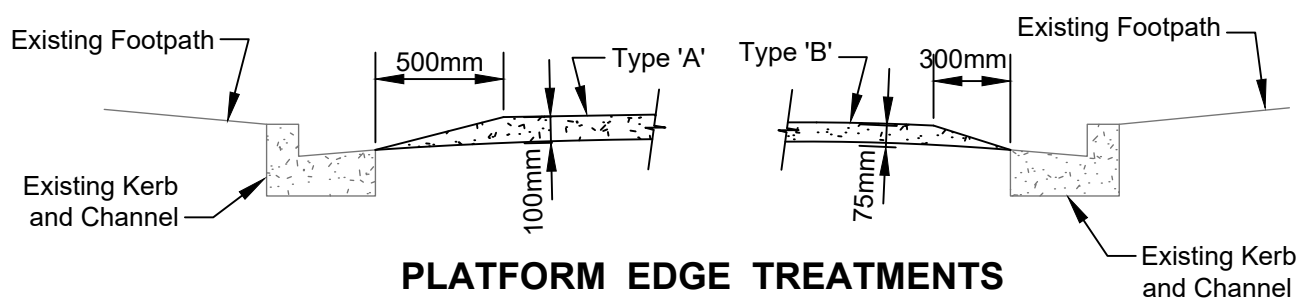
Not to **SCALE**



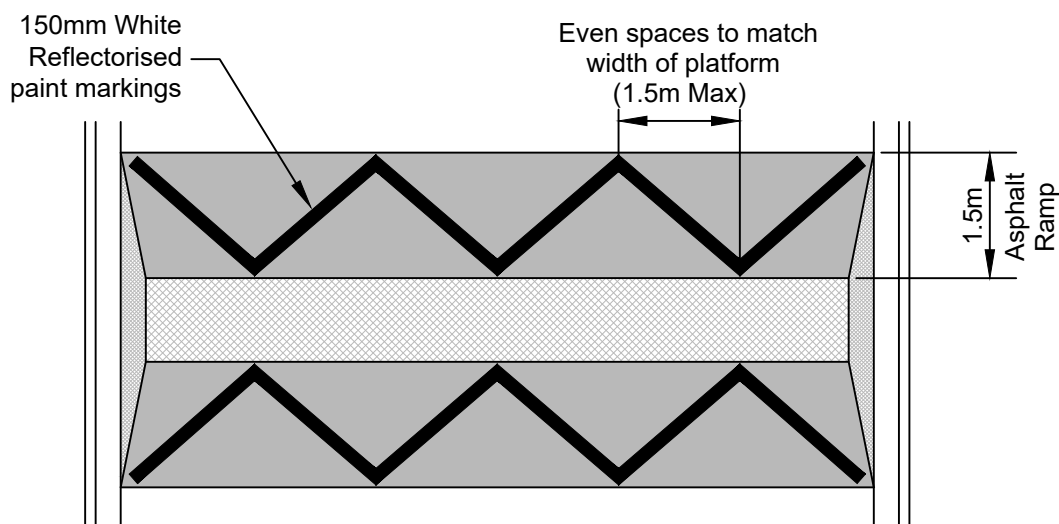
ASPHALT PLATFORM (TYPE 'A')



ASPHALT PLATFORM (TYPE 'B')

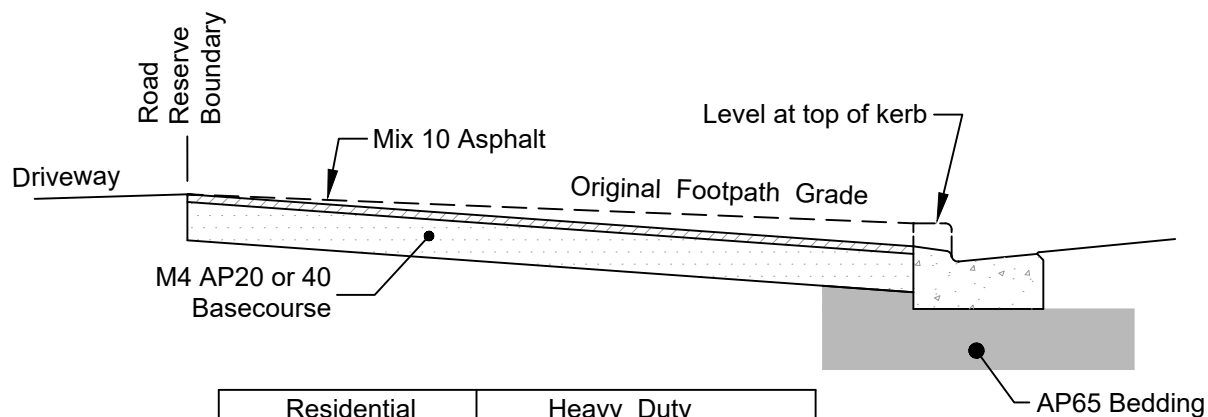


PLATFORM EDGE TREATMENTS

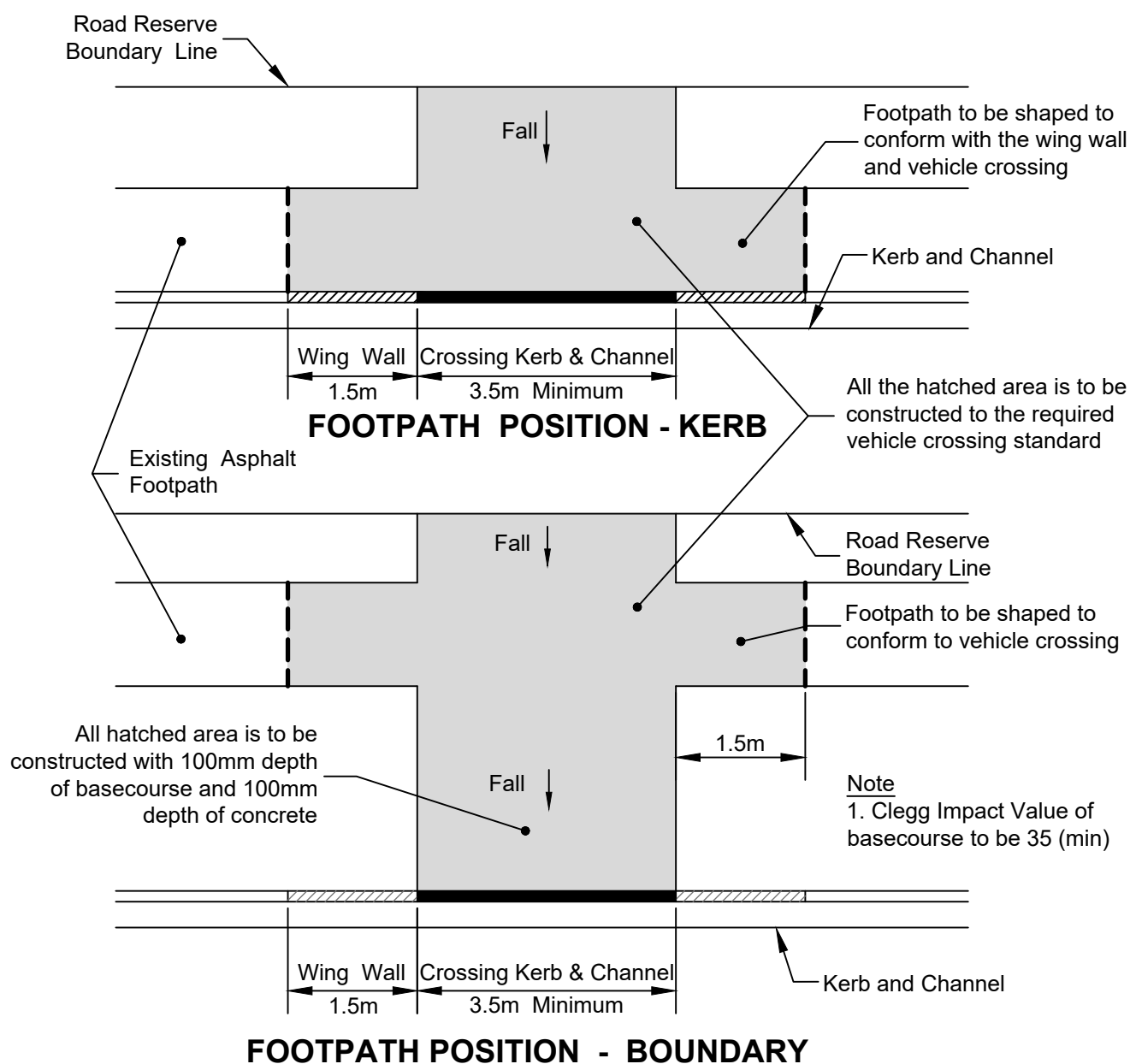


RAMP ROAD PAINT MARKINGS

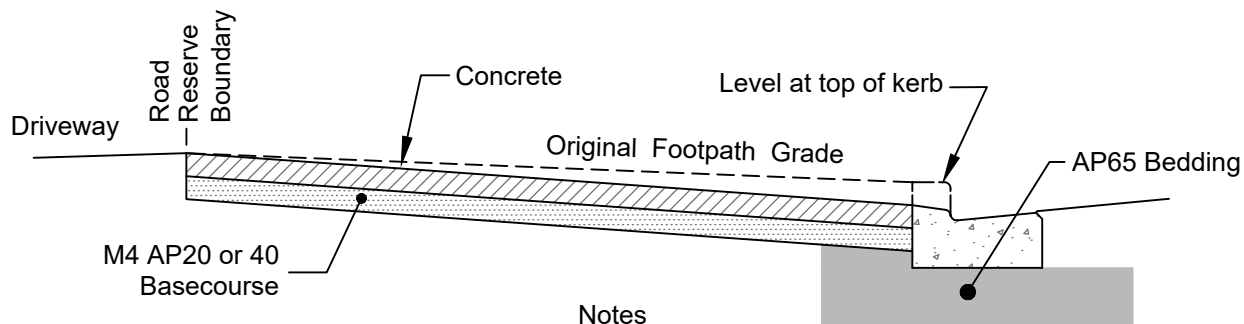
Not to SCALE



	Residential	Heavy Duty
Asphalt Depth	25mm	50mm average
Basecourse Depth	125mm min.	150mm min.



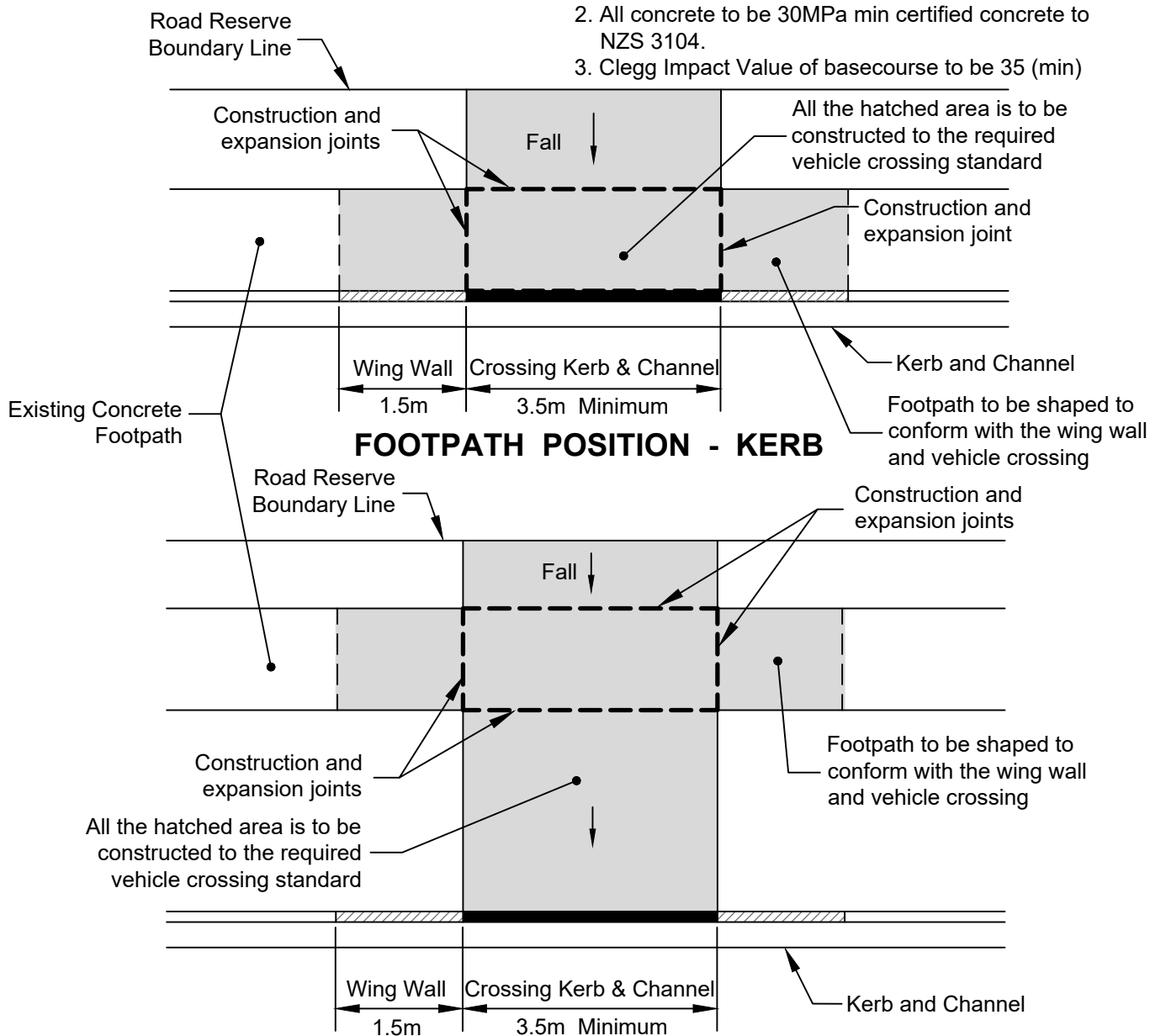
Not to SCALE



	Residential	Heavy Duty
Concrete Depth	100mm min	150mm min
Basecourse Depth	100mm min	100mm min

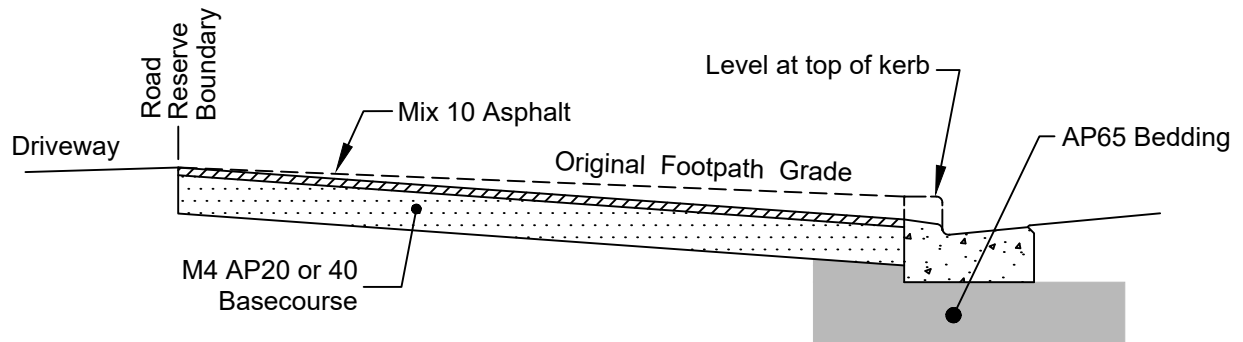
Notes

1. All Heavy Duty concrete (including the wing wall areas) to be reinforced with 665 mesh. Mesh to be overlapped by 200mm minimum at joints and laced together with wire.
2. All concrete to be 30MPa min certified concrete to NZS 3104.
3. Clegg Impact Value of basecourse to be 35 (min)



FOOTPATH POSITION - BOUNDARY

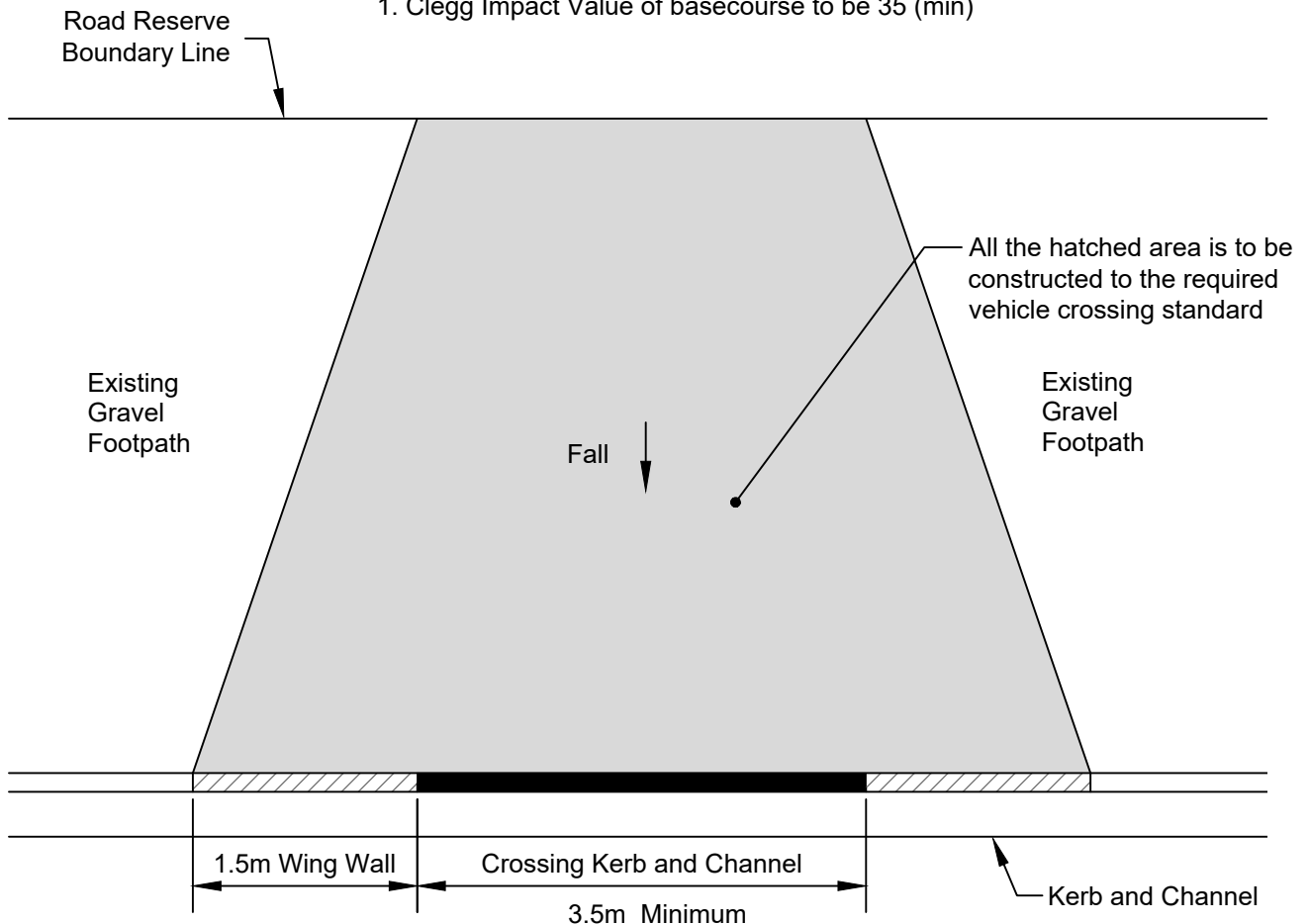
Not to SCALE



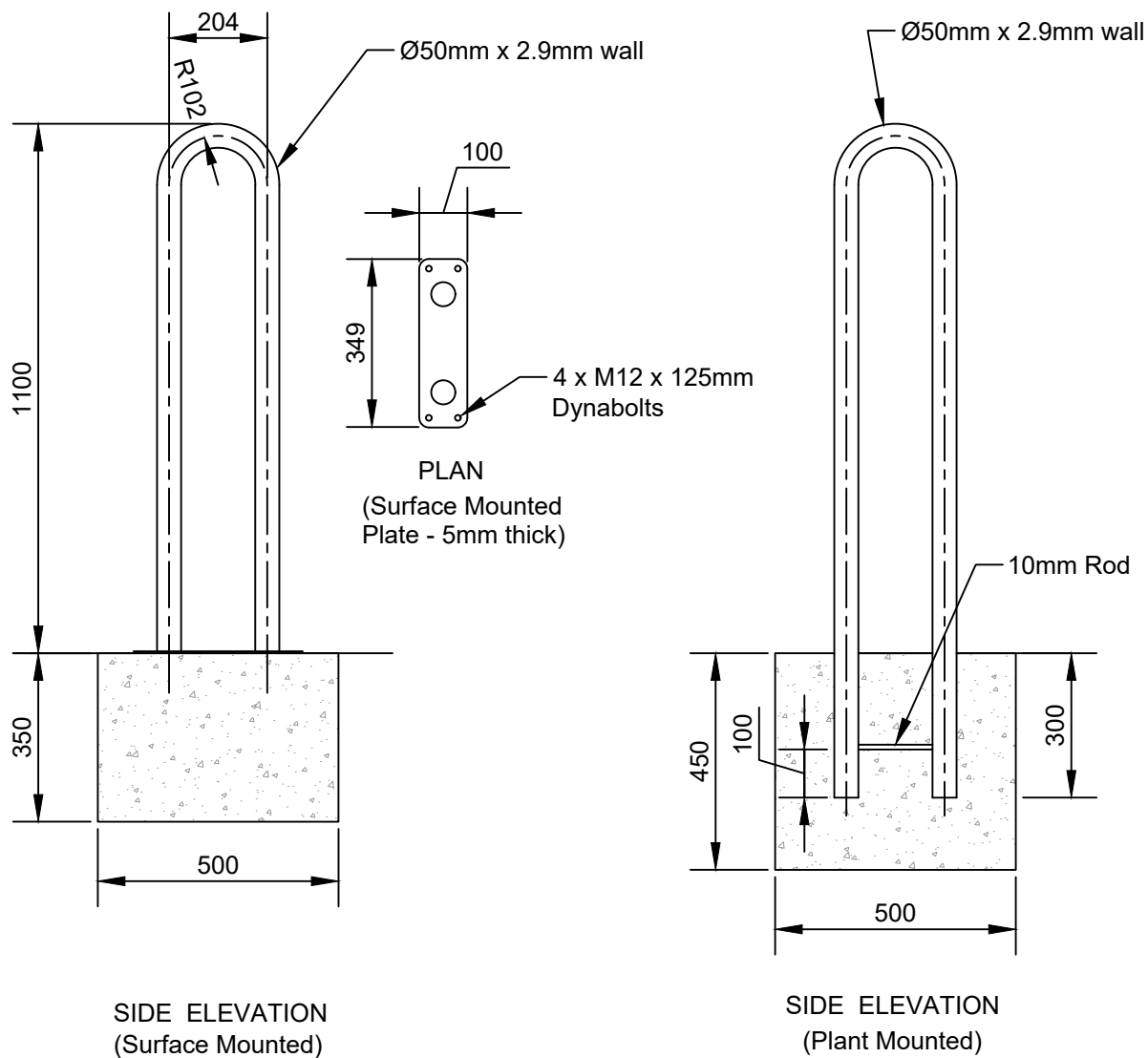
	Residential	Heavy Duty
Asphalt Depth	25mm	50mm
Basecourse Depth	125mm min.	150mm min.

Note

1. Clegg Impact Value of basecourse to be 35 (min)



Not to SCALE

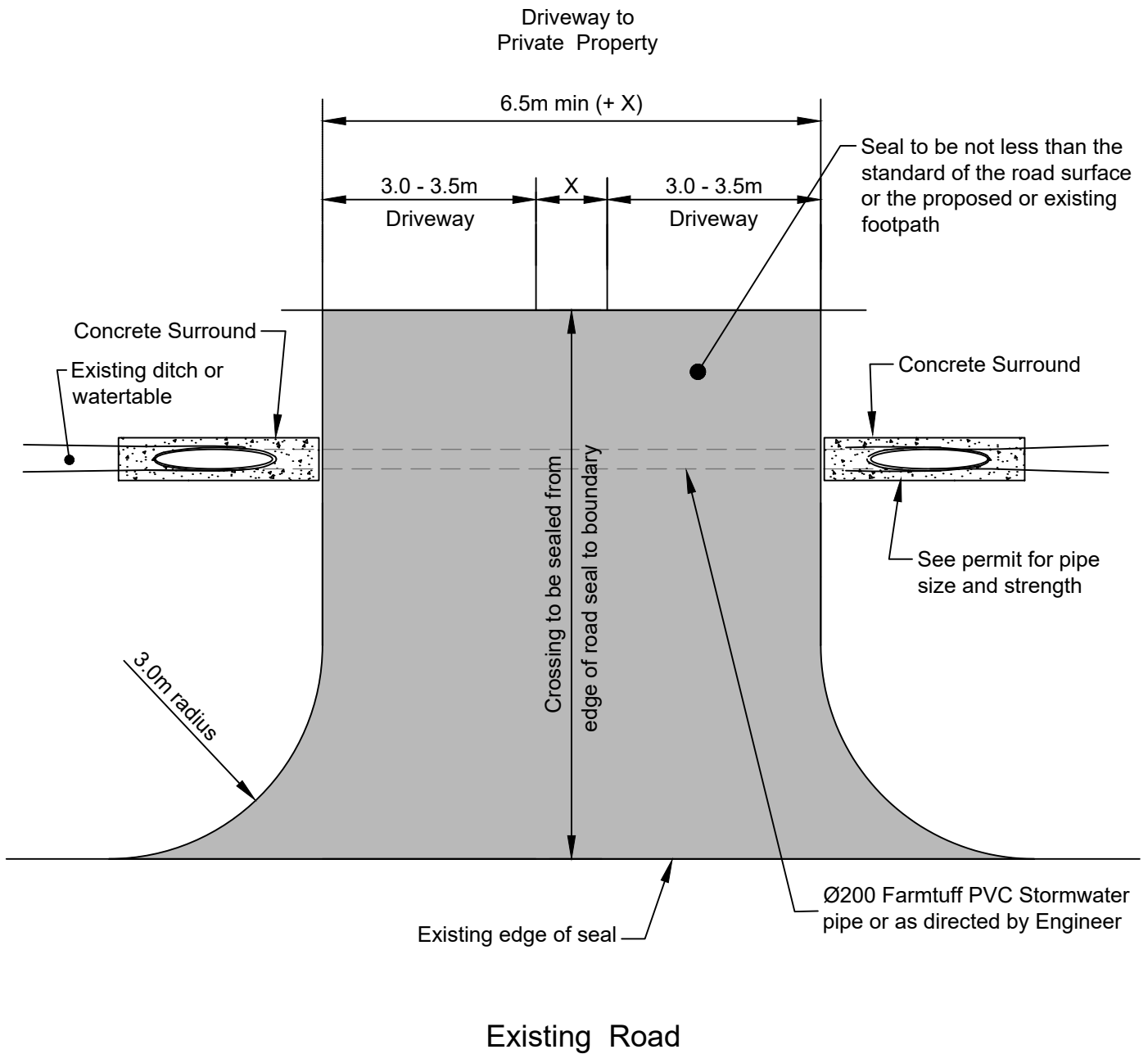


Product Specifications

1. Hot dip galvanised to AS/NZS 4680 (1999). Exterior Polyester Powder Coat Finish. (Resene Erode Claret) or
2. 316 Stainless Steel finished with 320 Grit abrasive and electropolished.

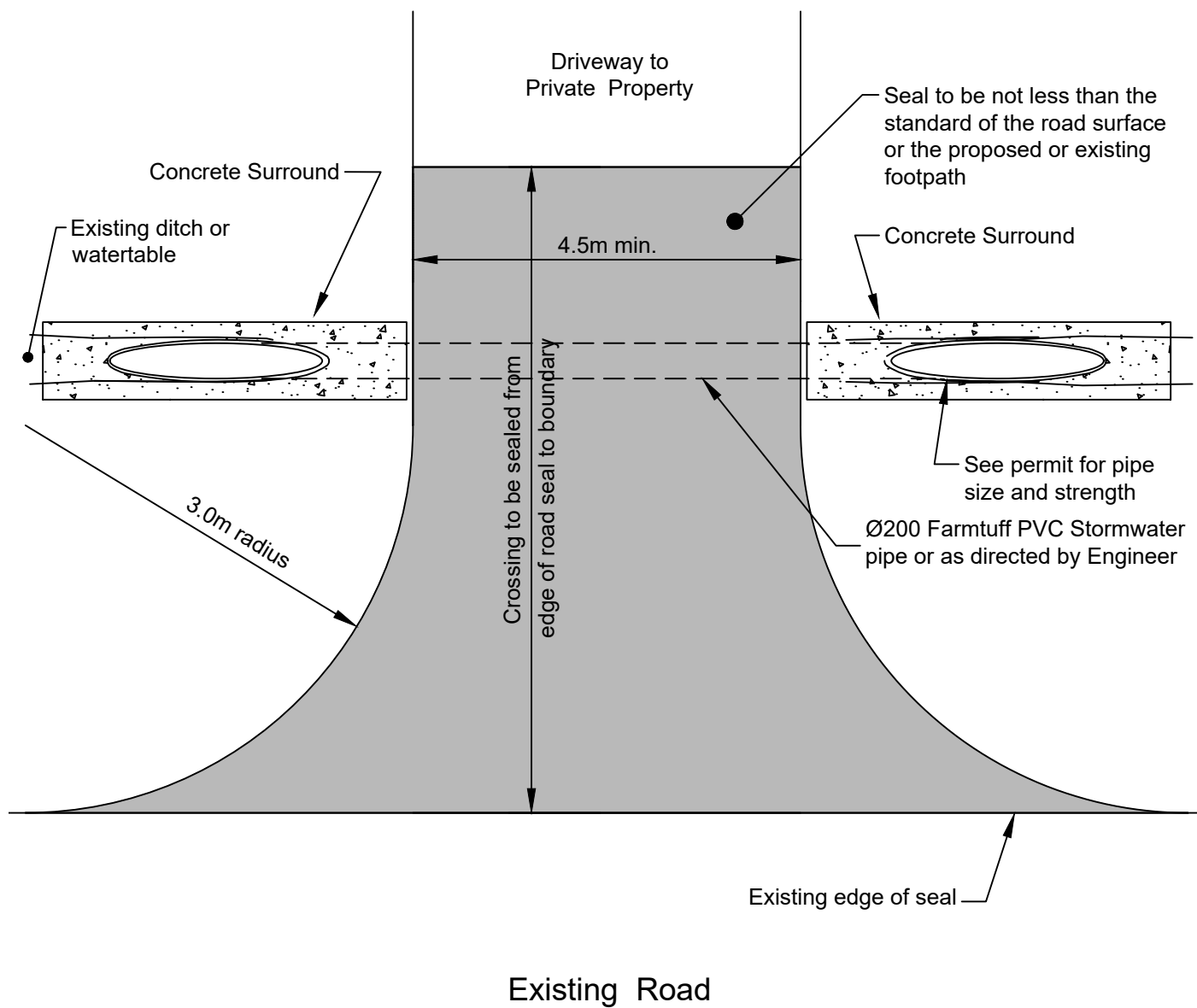
Not to SCALE

X = Fence / Boundary Separation

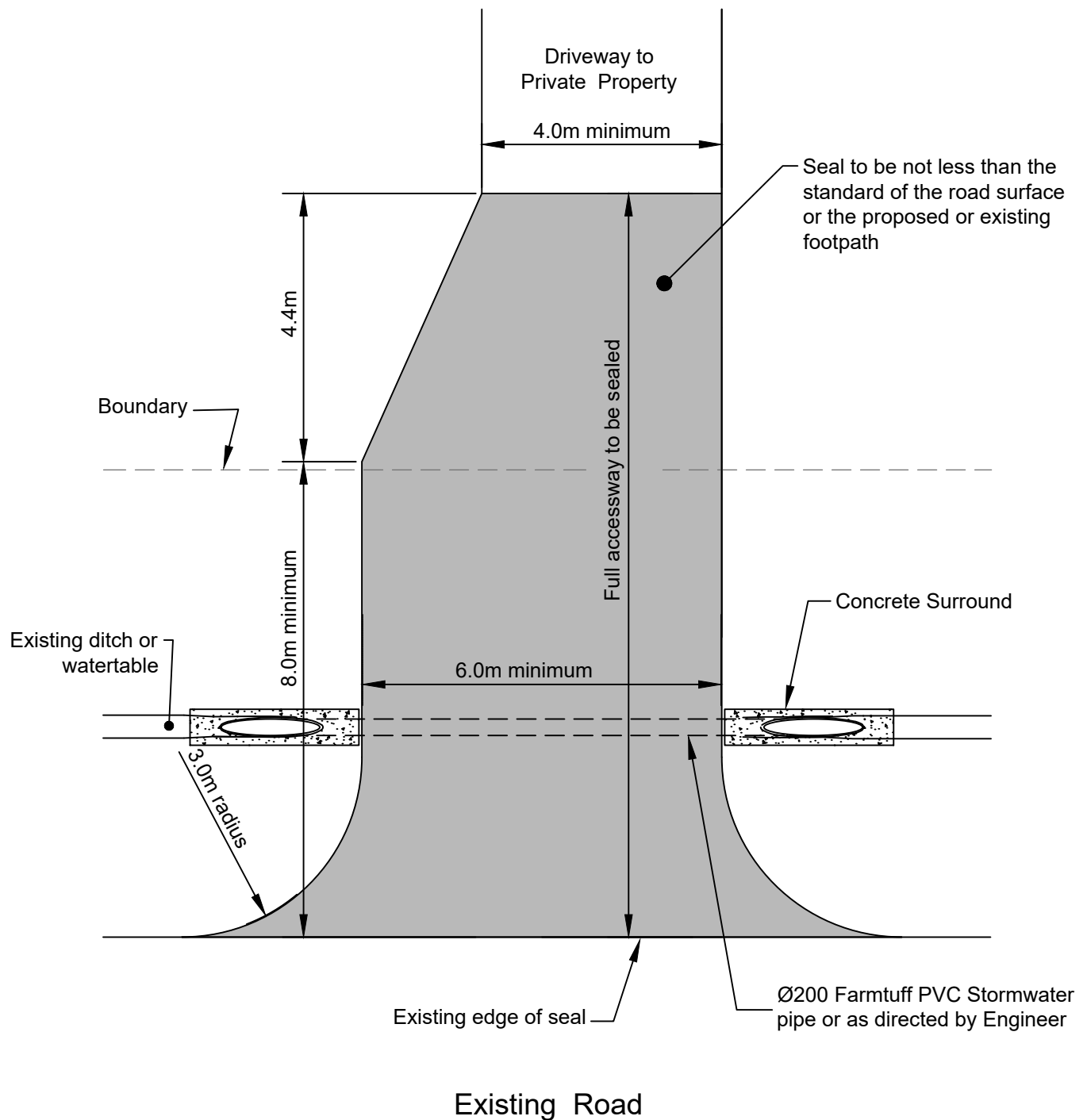


Refer to Fig. R29 and R29A - Rural Letterbox Bay Layout

Not to SCALE

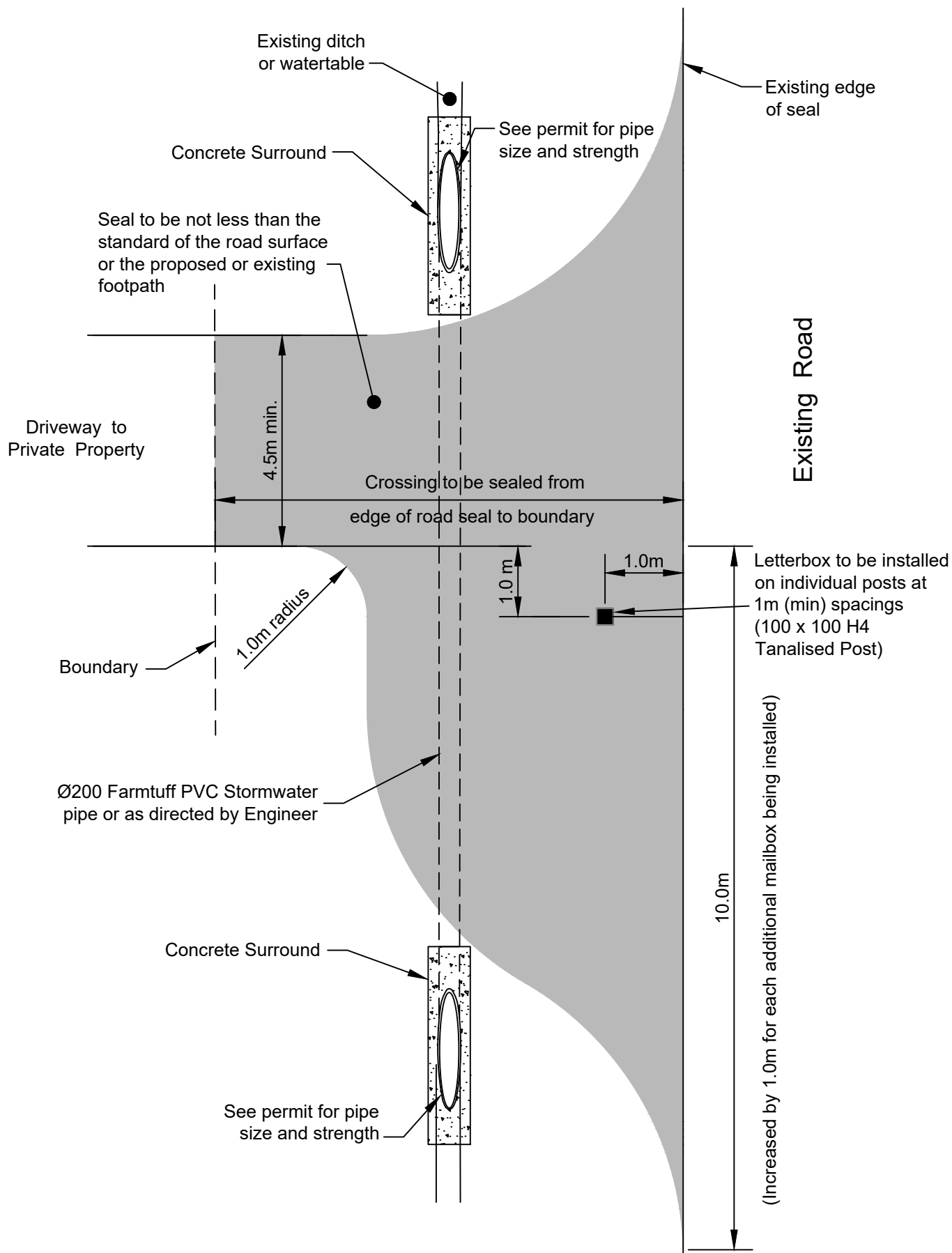


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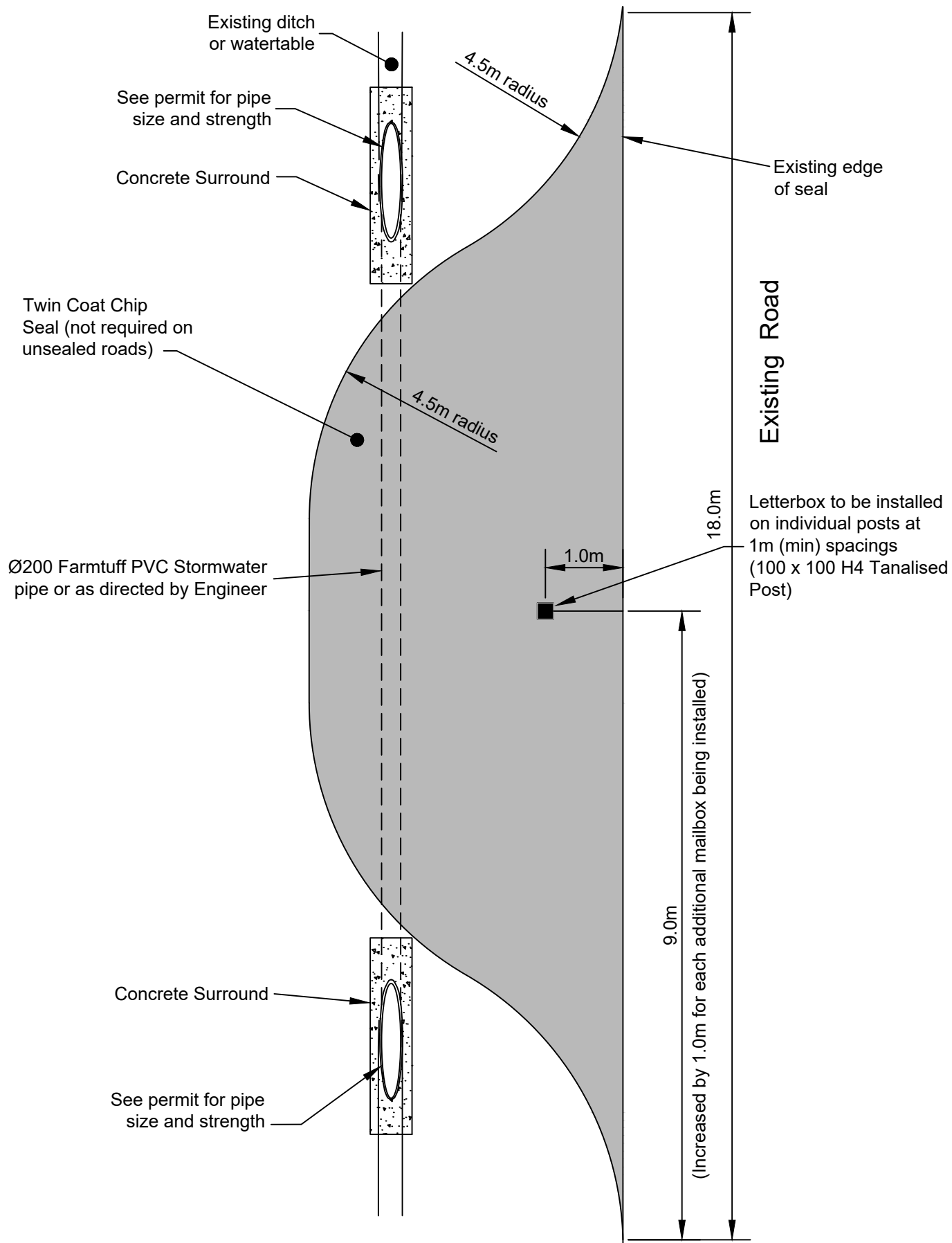


Note
Mailbox bay may be constructed in conjunction with this layout, see vehicle crossing approval.

Not to SCALE



Not to SCALE



Not to SCALE

30m long 150mm wide
reflectorised center line

RG-17 on PSO3
Flexi Stand

RG-6 on fluted
aluminum pole
in lock socket

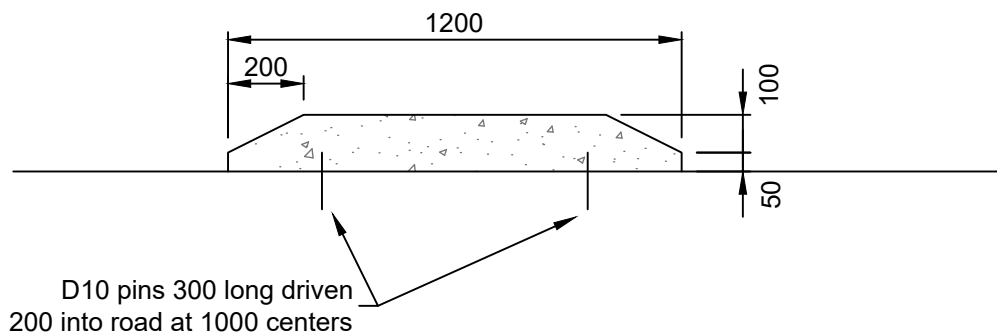
RG-6 Give Way Sign

Pram Crossing

Concrete Splitter Island

Note: All existing markings not
conforming to the above layout
to be sand blasted off.

PLAN

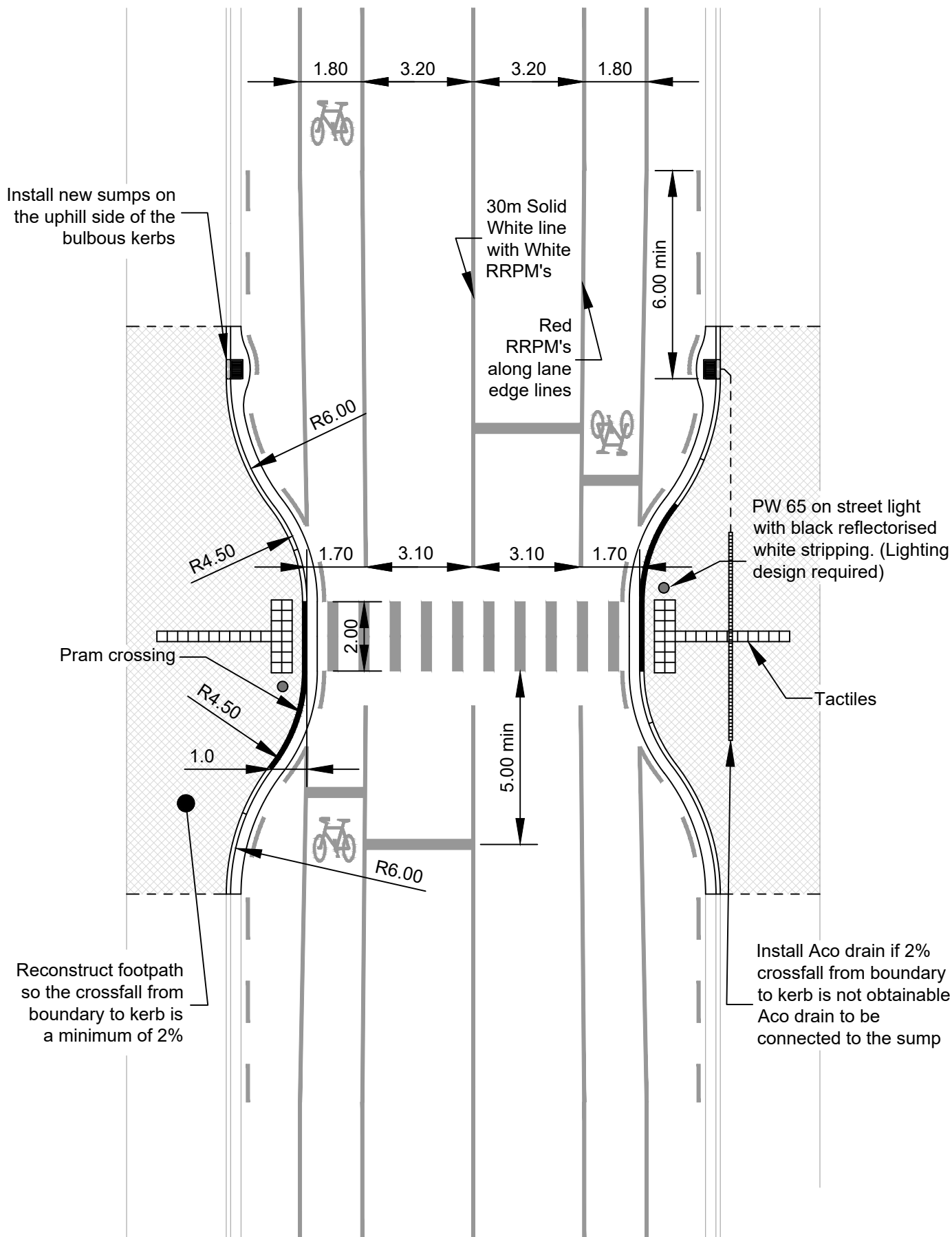


Note

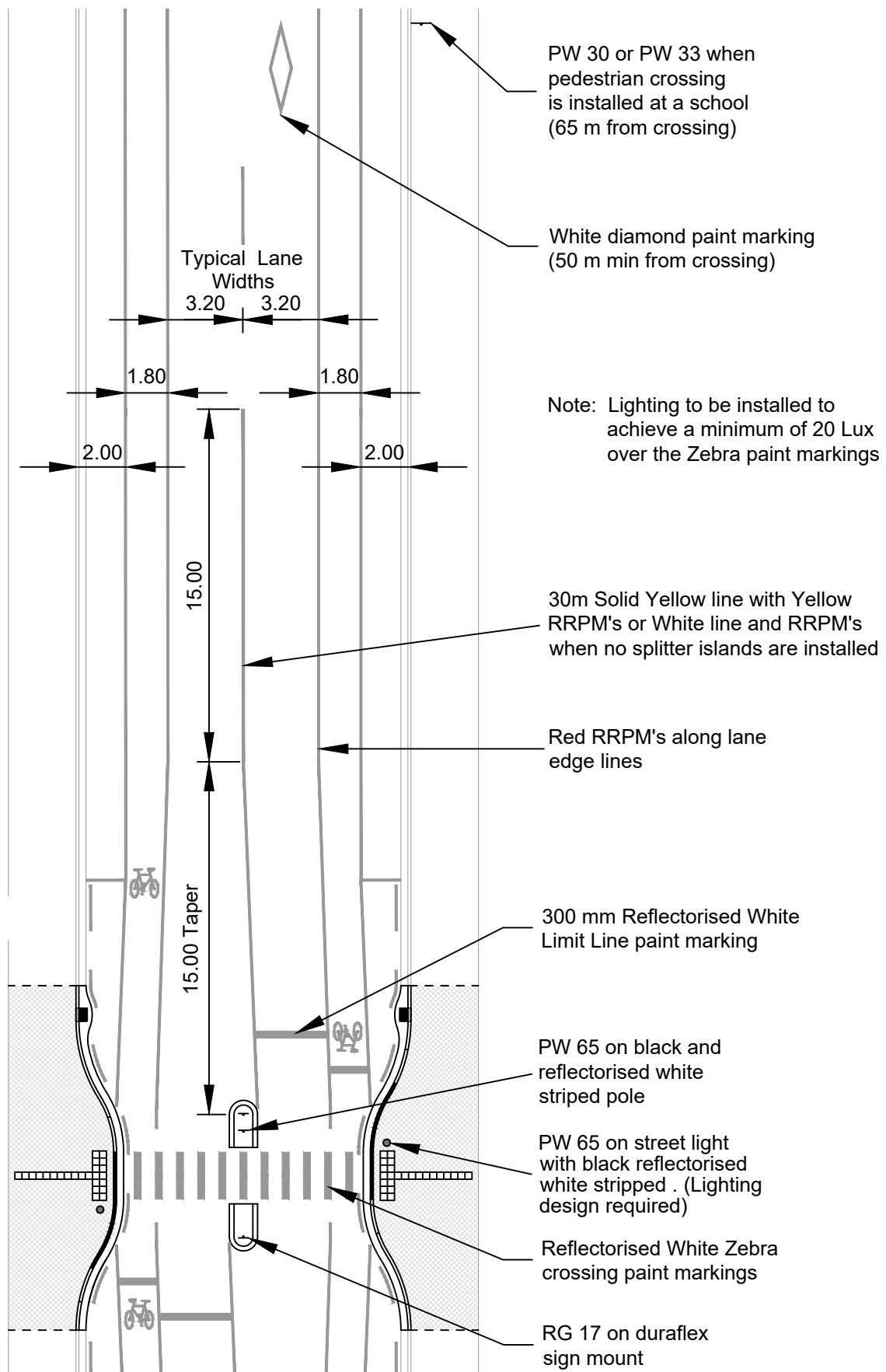
1. All Concrete to be 20MPa min
certified concrete to NZS 3104.

SPLITTER ISLAND CROSS SECTION

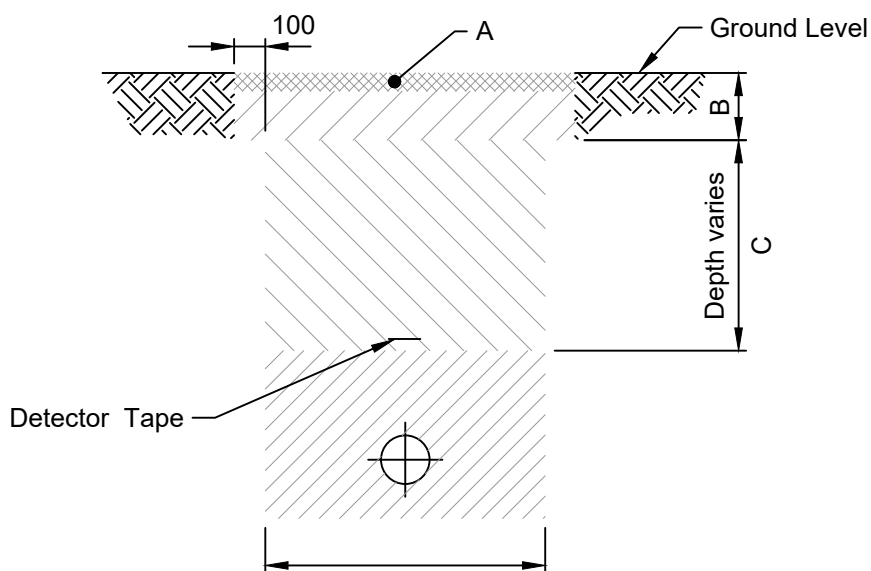
Not to SCALE



Not to SCALE



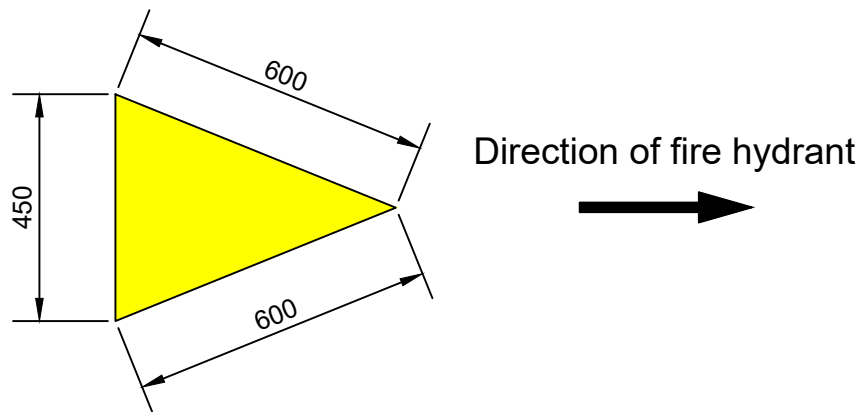
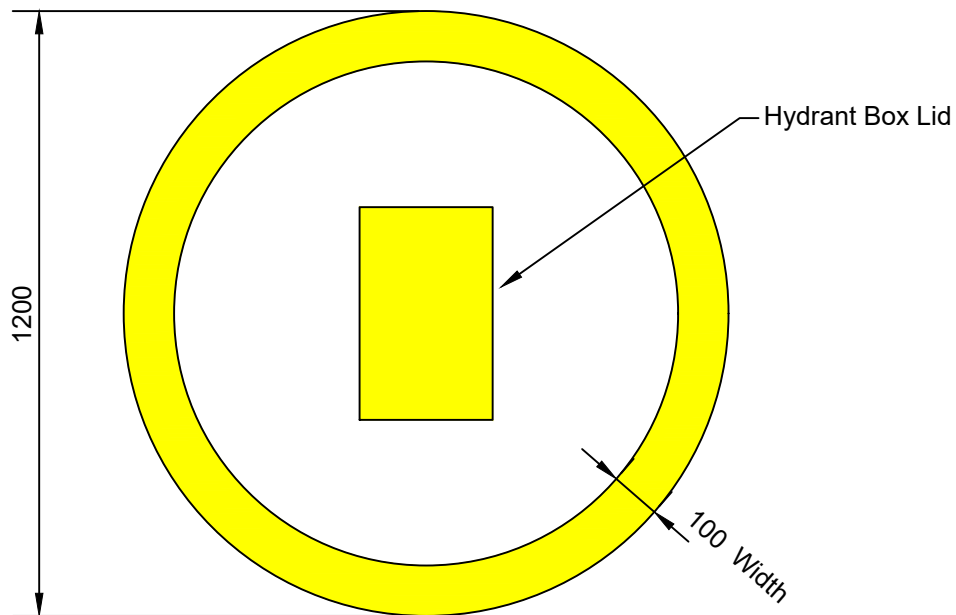
Not to SCALE



Trench Width as per NZS 4404:2010 Appendix B CM-001 to CM-002

Location	A	B	C
Carriageway Trench	50mm Asphalt on crushed AP 40 basecourse pavement	200	AP 65 Basecourse
Vehicular Crossing / Footpath	30mm Asphalt on crushed AP 40 basecourse pavement	150	AP 65 Basecourse
Grass Berm	Compacted screened top soil or cut turfs ex. berm	75	Compacted excavated material

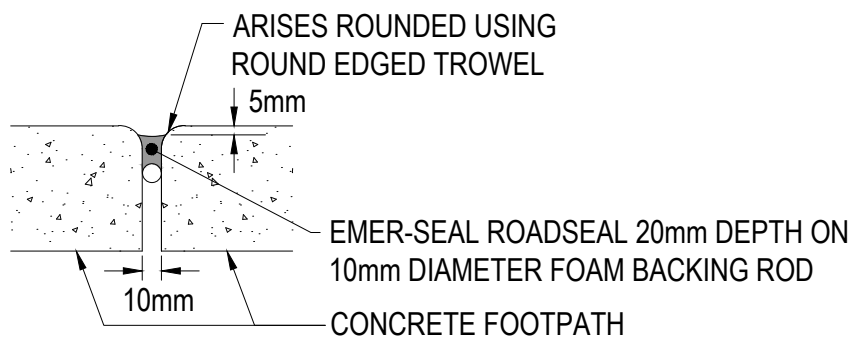
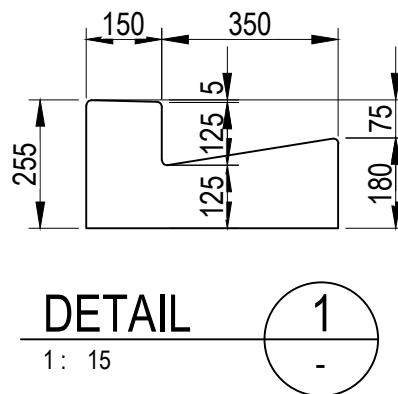
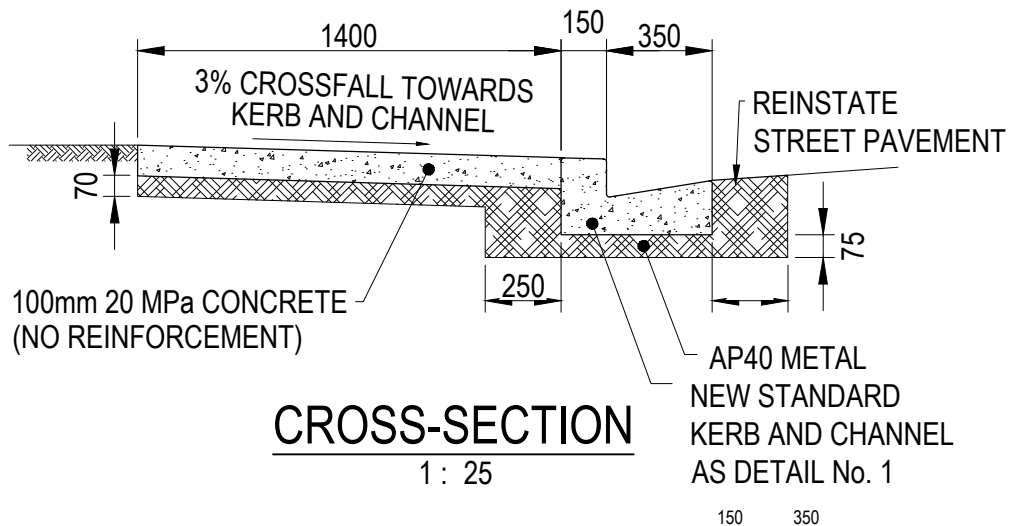
Not to SCALE



Notes

1. The colour of the location markings must be as prescribed in TNZ M/07.
2. Marking details are from SNZ PAS 4509:2008.
3. All dimensions are in millimetres.

Not to SCALE



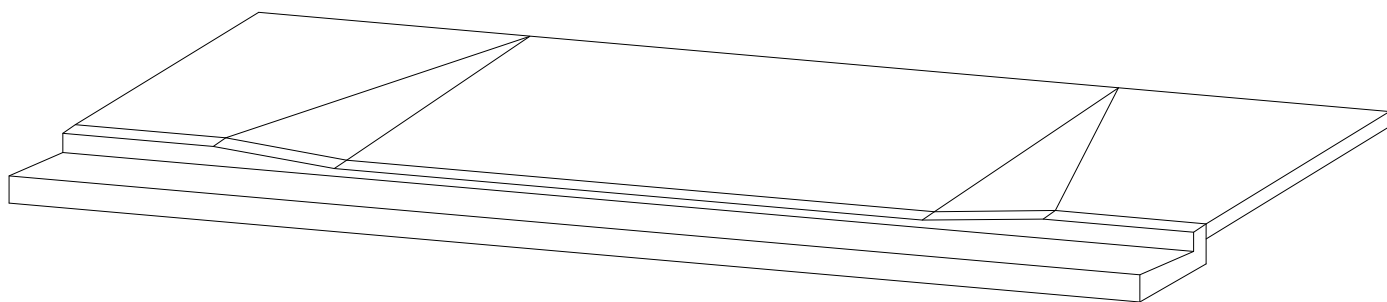
EXPANSION JOINT DETAIL

N.T.S.

NOTES:

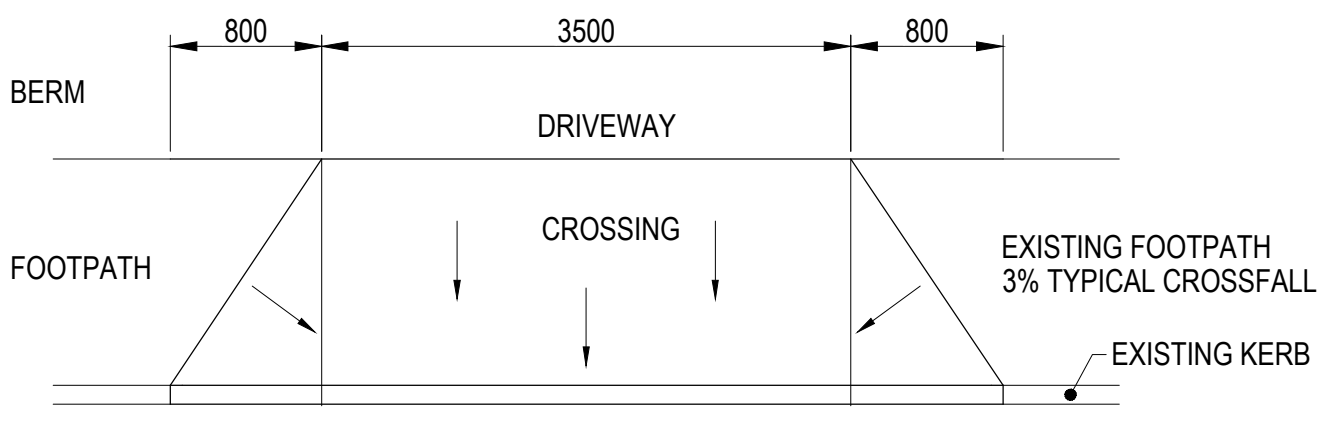
THE EXPANSION JOINT SHALL BE PROVIDED THROUGH THE FULL DEPTH OF THE CONCRETE ON EITHER SIDE OF ALL VEHICLE CROSSINGS AND AT MAXIMUM CENTRES OF 4.8m. THE JOINT FILLER SHALL COMPRISE EMER-SEAL ROADSEAL 20mm THICK ON 10mm DIAMETER FOAM BACKING RODS. CONSTRUCTION JOINTS SHALL BE FORMED AT 1.2m INTERVALS.

Not to SCALE



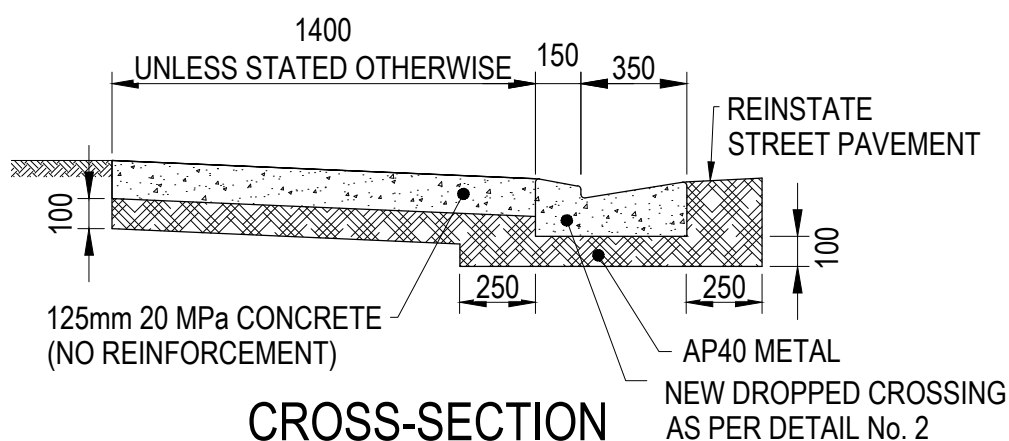
3D VIEW

N.T.S.



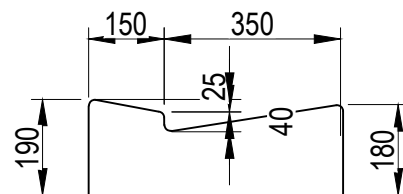
PLAN

1 : 50



CROSS-SECTION

1 : 25



DETAIL

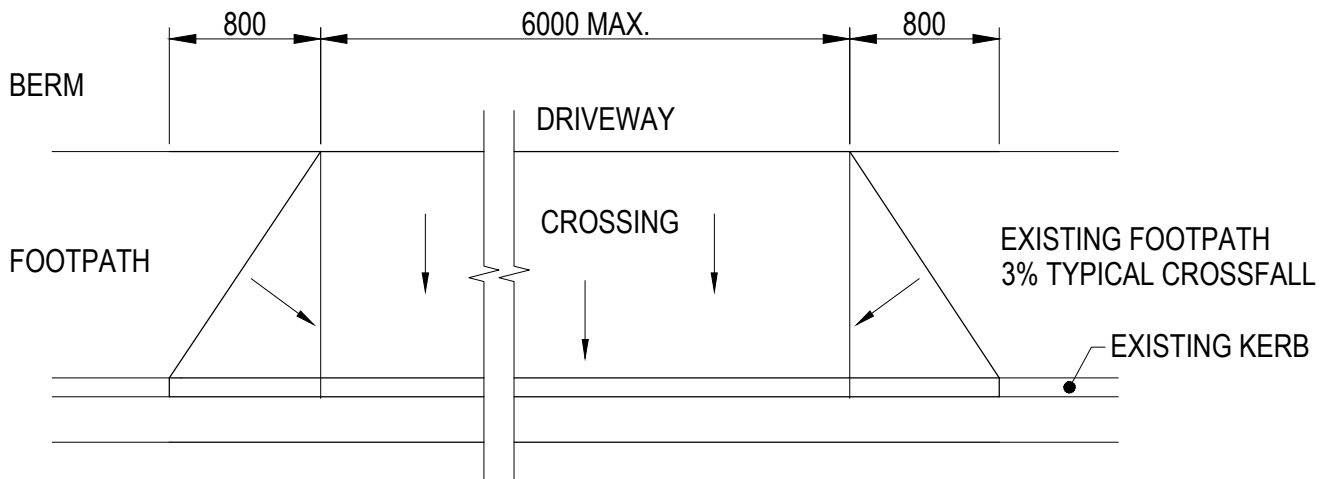
1 : 15

2
-

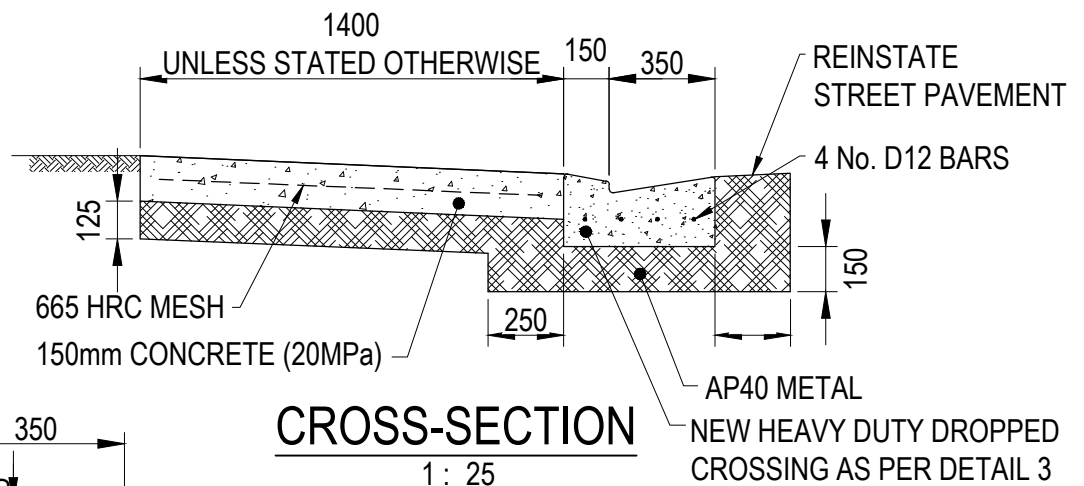
Not to **SCALE**



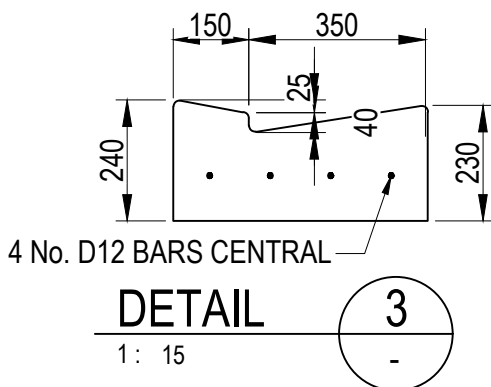
3D VIEW
N.T.S.



PLAN
1: 50



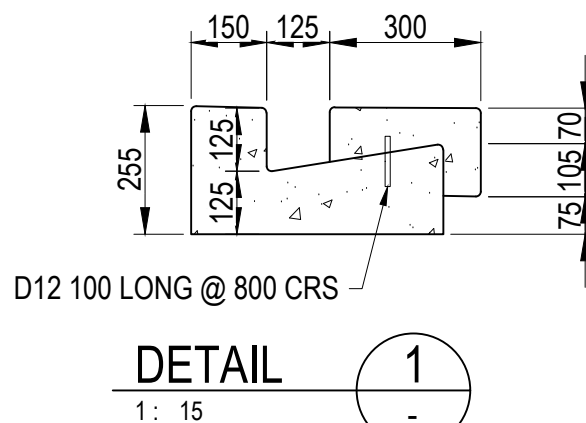
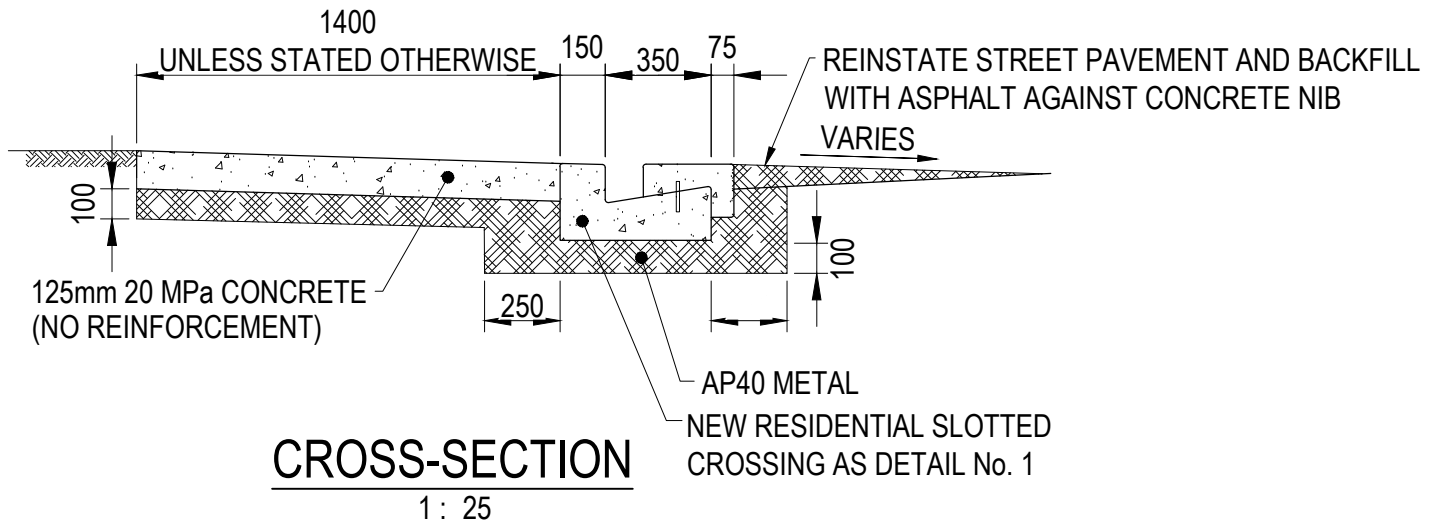
CROSS-SECTION
1: 25



DETAIL
1: 15

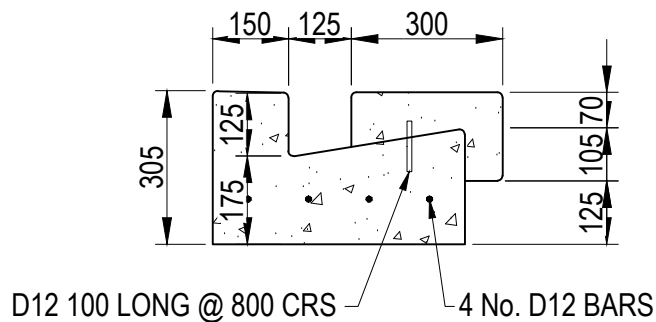
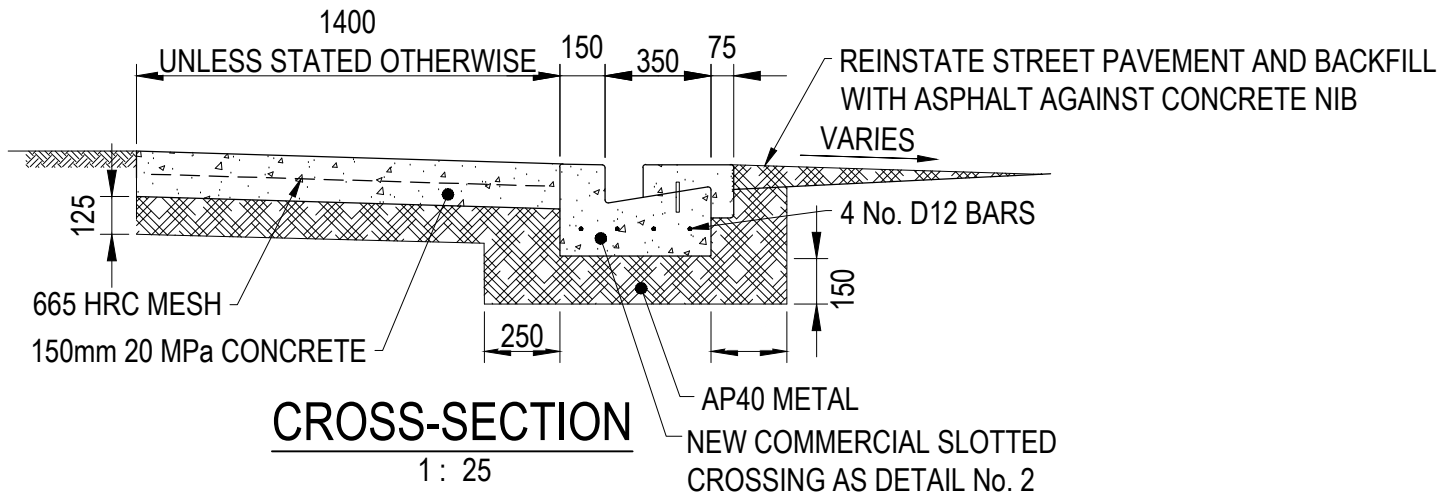
Not to SCALE

RESIDENTIAL SLOTTED CROSSING



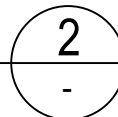
Not to **SCALE**

COMMERCIAL SLOTTED CROSSING



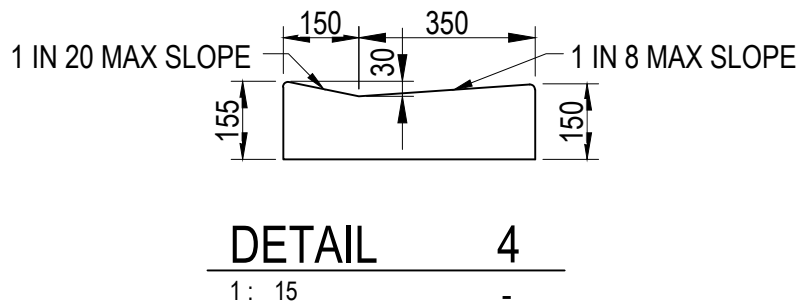
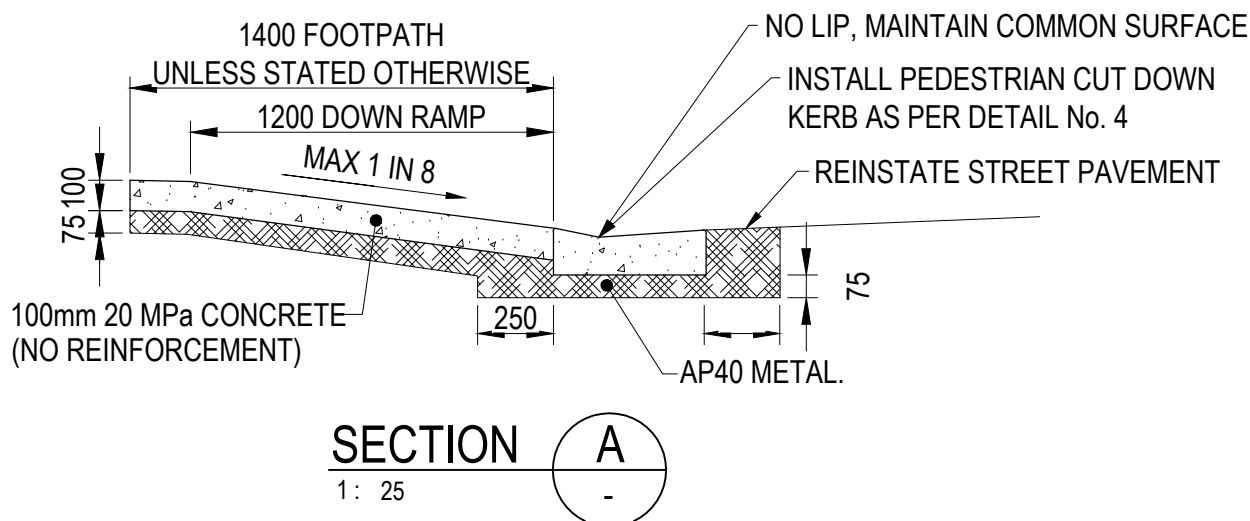
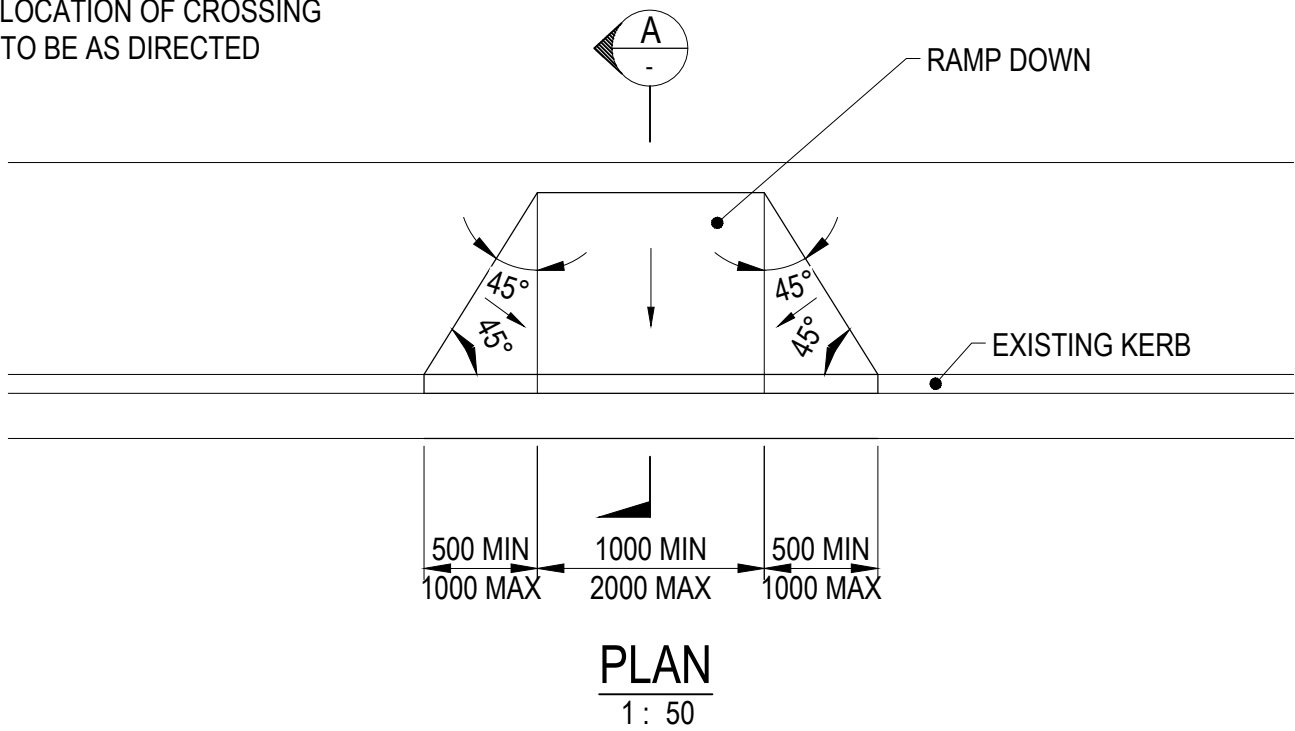
DETAIL

1 : 15

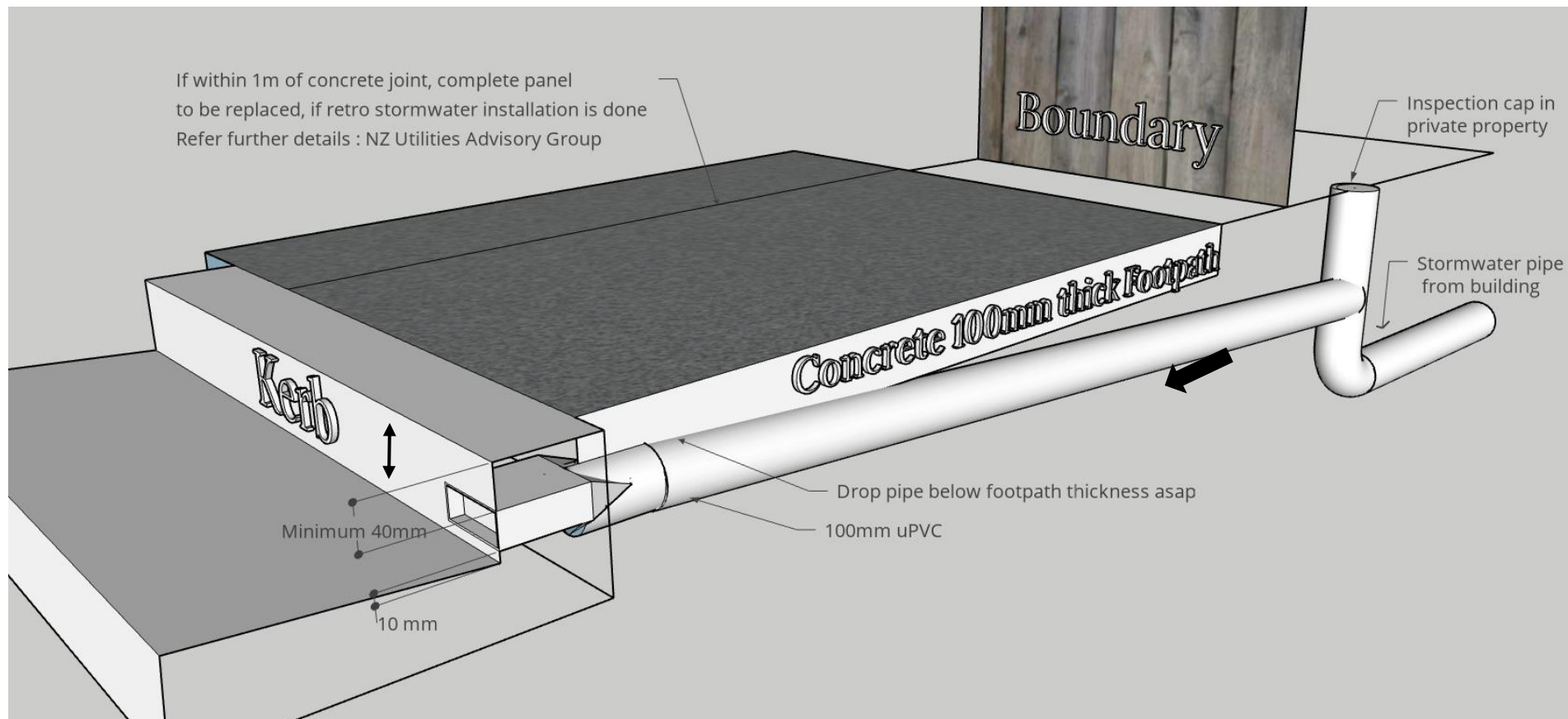


Not to **SCALE**

NOTE:
LOCATION OF CROSSING
TO BE AS DIRECTED



Not to **SCALE**



If council stormwater mains exist, a direct connection is required.

All work on the road corridor needs to be approved by Council, before any work starts.

Installing Stormwater pipework by a licensed drainlayer only.

If installing into existing Kerb / footpath, the concrete cut is to be 150mm larger (trimming edge) than trench. If this cut edge is less than 1m from existing joint, then all the panel needs replaced. (Details= NZ Utilities Advisory Group)

The Kerb Connection Adaptor fitting is to be thick-walled uPVC.

The pipework must be perpendicular (90 degrees) to the kerb.

Not to SCALE

Figure
W25

Revision:01
Date: 09/25