

Std. Dwg. No.	Descriptions	Std. Dwg. No.	Descriptions
	CROSS SECTIONS		KERB AND CHANNEL
R-0031	TYPE CROSS SECTIONS BI-LEVEL STREET AND VERGE PROFILE FOR ACCESS PLACE, ACCESS STREET AND COLLECTOR STREETS	R-0080	KERBS AND CHANNELS, PROFILES AND DIMENSIONS, INCL EDGE RESTRAINTS, MEDIAN AND INVERT
R-0032	COMMERCIAL / INDUSTRIAL, URBAN RESIDENTIAL AND LOW DENSITY RESIDENTIAL < 1.0 HA STREETS	R-0081	KERB AND CHANNEL, DRAINAGE CONNECTIONS
R-0033	RURAL ROADS AND LOW DENSITY RESIDENTIAL > 1.0 HA ROADS	R-0084	KERB RAMP
	CULVERTS		PUBLIC UTILITIES
QT 1303	RC BOX CULVERTS AND SLAB LINK BOX CULVERTS	R-0100	PUBLIC UTILITIES IN SUBDIVISIONS, TYPICAL SERVICE CORRIDOR AND SECTIONS
QT 1316	CONSTRUCTION OF RC WINGWALLS AND HEADWALLS		RELIEVING SLAB
QT 1317	INSTALLATION OF PRECAST UNITS	QT 1505	BRIDGE APPROACHES - RELIEVING SLAB 3 METRE SPAN
QT 1318	CONSTRUCTION OF BASES WITH NIBS AND APRONS	QT 1506	BRIDGE APPROACHES - RELIEVING SLAB 6 METRE SPAN
			ROAD EDGE GUIDE POSTS
QT 1320	CROWN UNIT HOLDING DOWN ANCHORS	QT 1356	ROAD EDGE GUIDE POSTS TIMBER AND TUBULAR STEEL POST AND INSTALLATION DETAILS
QT 1304	RC PIPE CULVERTS - CONSTRUCTION OF RC WINGWALLS & APRONS FOR PIPE DIA 750 TO 2400		SIGNS
QT 1305	PIPE CULVERTS - HEADWALLS AND APRONS FOR PIPE DIA 375 TO 675	R-0130	STREET NAME SIGN
QT 1359	CULVERTS - INSTALLATION, BEDDING AND FILLING / BACKFILLING AGAINST / OVER CULVERTS	R-0131	TRAFFIC CONTROL DEVICES
	DRIVEWAYS		SUBSURFACE DRAINAGE
R-0050	RESIDENTIAL DRIVEWAY - SLAB AND TRACKS	R-0140	SUBSURFACE DRAINAGE
R-0051	COMMERCIAL DRIVEWAY SLAB - TYPE A - TWO WAY ACCESS	R-0141	SUBSOIL DRAINAGE DETAILS AT MEDIANS / ISLANDS
R-0052	COMMERCIAL DRIVEWAY SLAB - TYPE B - TWO LANES ACCESS	QT 1116	SUBSOIL DRAINS - OUTLETS AND CLEANOUTS
R-0053	TYPICAL MINOR ACCESS DETAILS FOR COUNCIL RURAL ROADS		WATER SERVICE CONDUITS
	FLOODWAYS		
QT 1170	FLOOD DEPTH INDICATORS	R-0160	WATER SERVICE CONDUITS
	FOOTPATHS		
R-0065	CONCRETE STRIP FOOTPATHS		
	GATES AND GRIDS		
QT 1601	RURAL FENCE AND GATES - CHS POSTS AND STAYS		
QT 1561	MOTOR GRID - GENERAL ARRANGEMENT		
	GUARD RAILS AND BARRIERS		
QT 1474	STEEL BEAM GUARD RAILS		
QT 1475	INSTALLATION AND SETOUT		
QT 1476	INSTALLATION OF BRIDGE AND BARRIER APPROACHES		
QT 1341	TERMINAL AND COMPONENTS		
QT 1479	INSTALLATION OF BACK TO BACK GUARDRAIL		
QT 1480	BOLTS, NUTS, SCREWS AND WASHERS CABLE ASSEMBLY WITH FASTENERS		
QT 1481	DETAILS FOR W BEAM RAILS AND RAIL COMPONENTS		
QT 1482	DETAILS FOR THRIE BEAM RAILS AND RAIL COMPONENTS		
QT 1483	W BEAM AND THRIE BEAM ASSEMBLIES		
QT 1484	DETAILS FOR ANCHOR CABLE ASSEMBLY AND SUPPORTING PLATES		
QT 1485	DETAILS FOR GUARDRAIL DELINEATOR BRACKET		
	CONCRETE BARRIERS, EXTRUDED AND PRECAST BARRIERS		

REVISIONS	DATE
D GENERAL UPDATES AND STANDARD REFERENCING AMENDMENTS	24/5/16
C Dwg R-066 DELETED	10/3/98
B Dwgs. R-002, R0032, R0037, R0035, R0050	10/3/98
A ORIGINAL ISSUE	1/3/97



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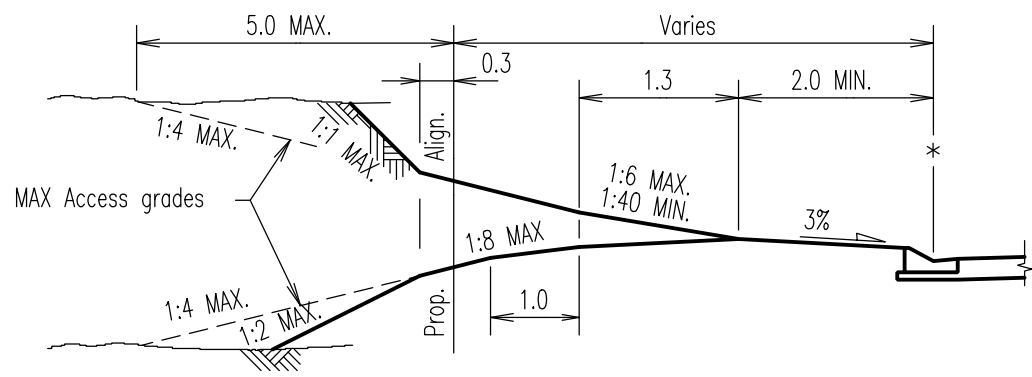
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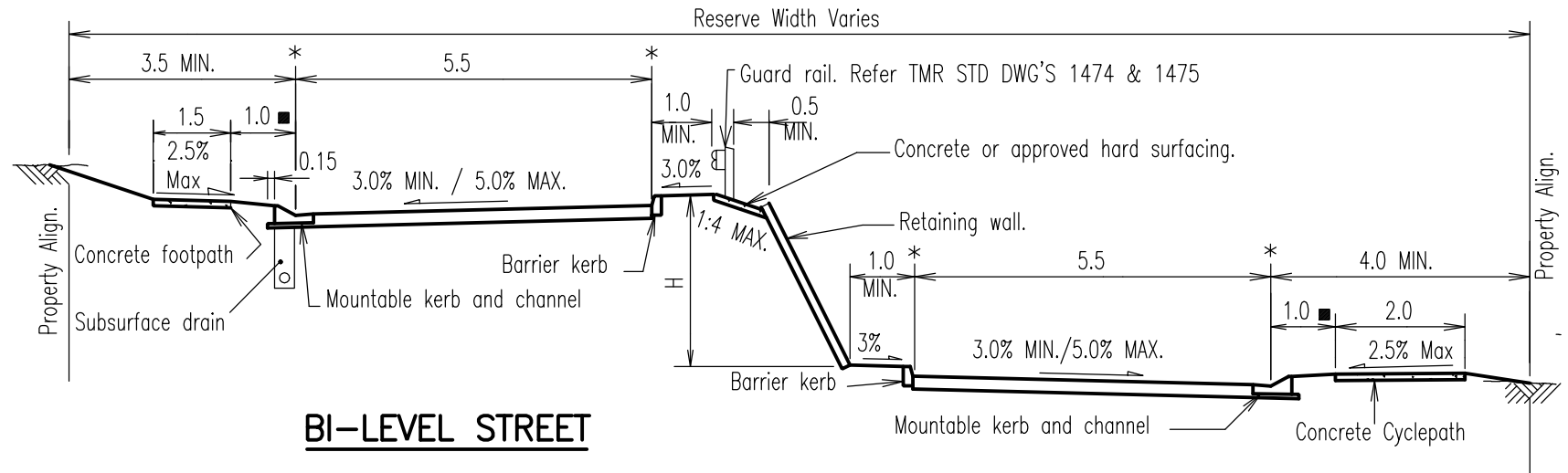
INDEX
STANDARD DRAWINGS
ROAD / STREET

ROAD/STREET
Standard
Drawing
R-0001

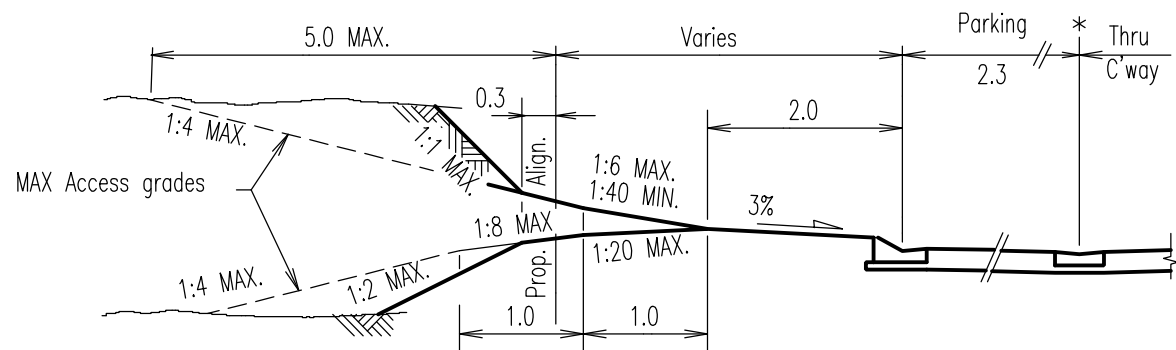
A | B | C | D



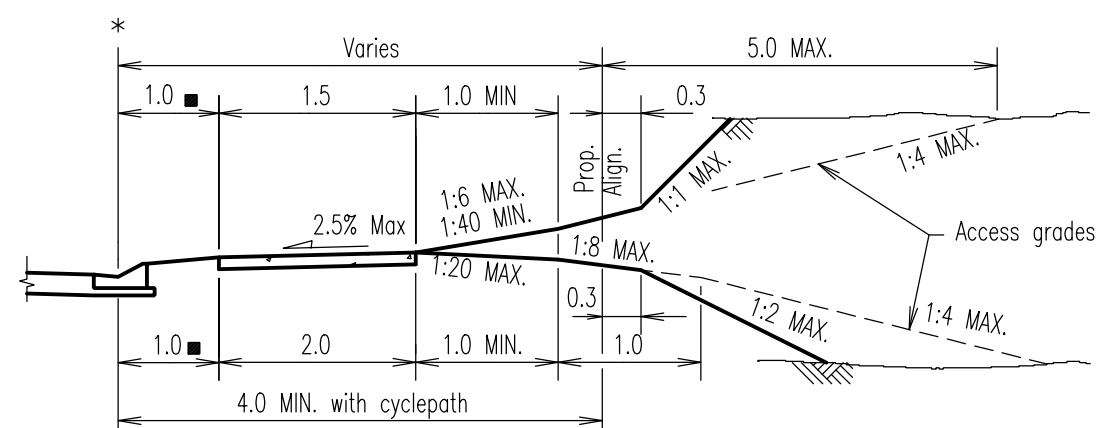
VERGE WITHOUT PATHWAYS



BI-LEVEL STREET



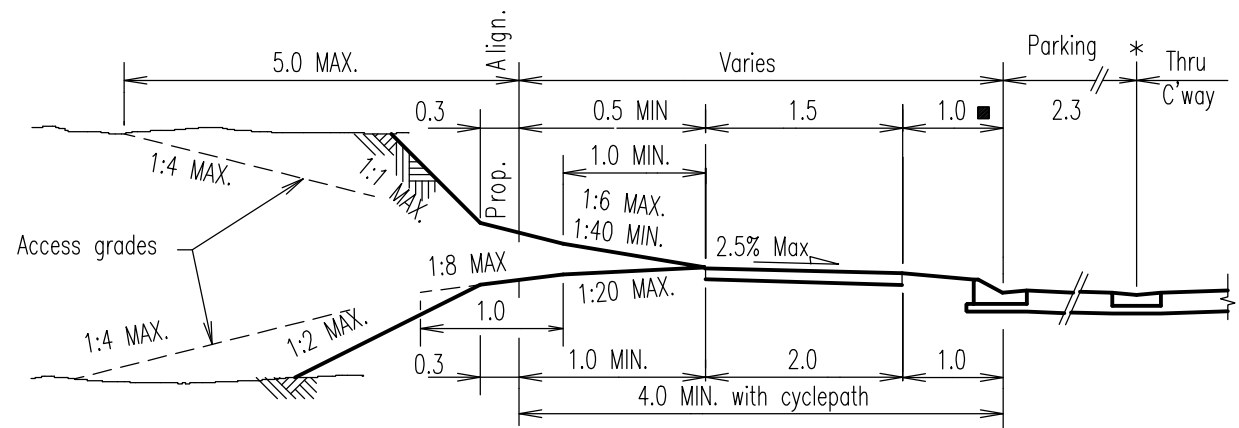
VERGE AT PARKING BAYS WITHOUT PATHWAYS



VERGE WITH PATHWAYS

LEGEND

- Road reserve may be 20 metres if all services can be accommodated.
- * NOM. Kerb line
- Unless otherwise specified



VERGE WITH PARKING BAYS AND PATHWAYS

- NOTES:**
1. A concrete footpath or cyclepath may be provided on one side only depending on allotment catchment. It shall be constructed parallel to the kerb and channel, and transition smoothly around any parking bays.
 2. Retaining wall to be designed specifically to suit site conditions. The retaining wall face should be of a type which will compliment the amenity of the area. Rock faced walls are acceptable, however each wall should be considered individually.
 3. An approved guardrail shall be installed when height 'H' (top of kerb to top of kerb) exceeds 1.5m, refer TMR STD DWG 1474.
 4. Landscaping may be possible in the area between the guardrail and top of wall when this dimension exceeds 1.5m, where guardrail is not required or when the width of centre median exceeds 1.5m. Landscaping will not be permitted in the 1.0m strip behind the barrier kerbs to allow for manoeuvring of vehicles.
 5. The minimum reserve widths indicated on the standard road cross sections may need to be increased in certain circumstances in order to comply with this drawing.
 6. For pavement design requirements refer Development design manual.
 7. All dimensions in metres.

REVISIONS	DATE
C GENERAL UPDATES AND STANDARD REFERENCING AMENDMENTS	24/5/16
B GENERAL UPDATES	15/2/12
A ORIGINAL ISSUE	1/3/97



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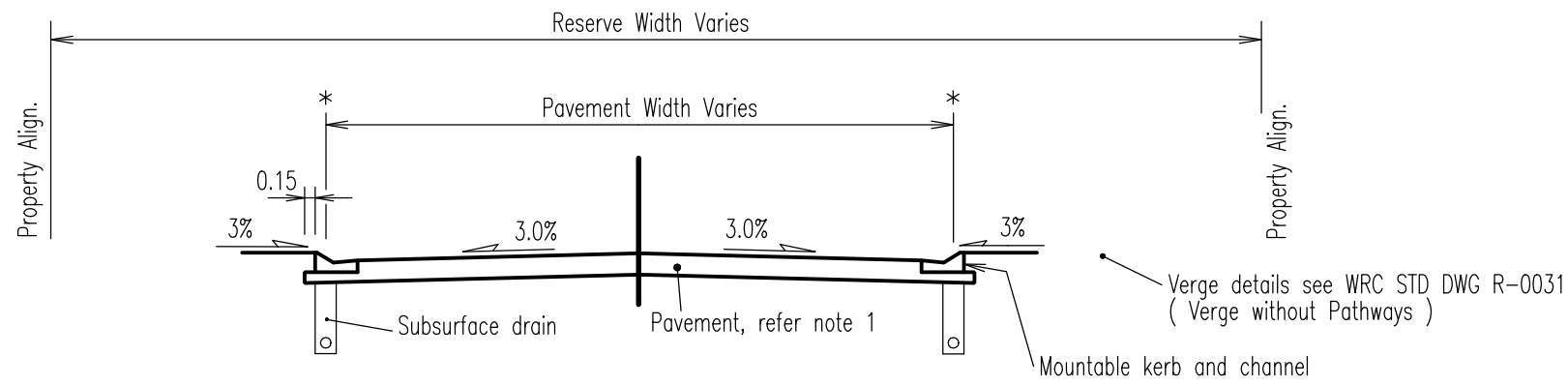
TYPE CROSS SECTIONS

BI-LEVEL STREET & VERGE PROFILES FOR

ACCESS PL, ACCESS STS. & COLLECTOR STS.

ROAD/STREET
Standard
Drawing
R-0031

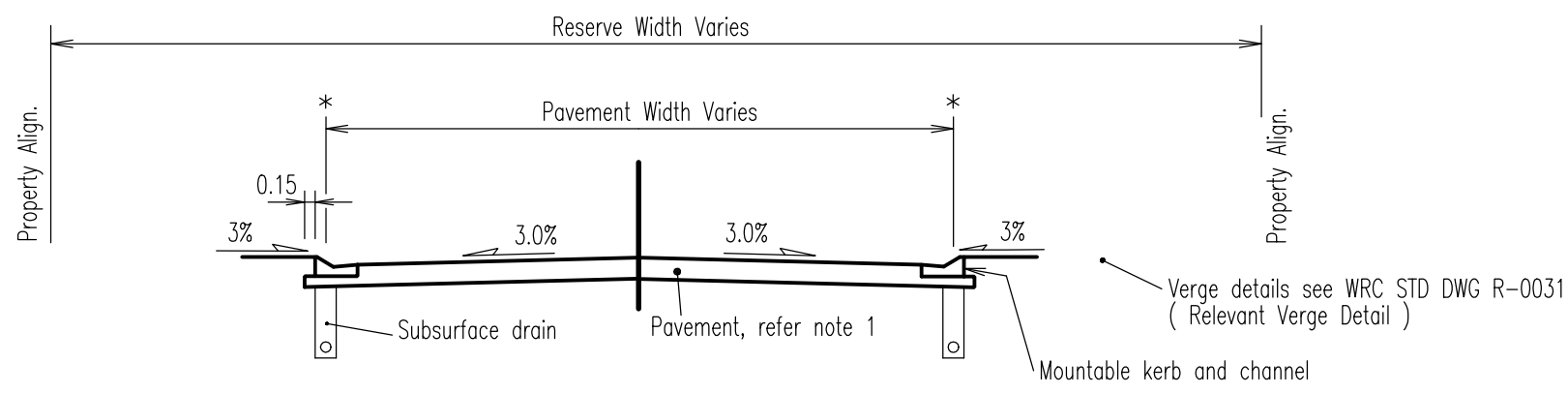
A B C



LOW DENSITY RESIDENTIAL < 1.0 HA

LOW DENSITY RESIDENTIAL < 1.5 HA SPECIFICATIONS
(Refer Table 1.4-1 for total requirements)

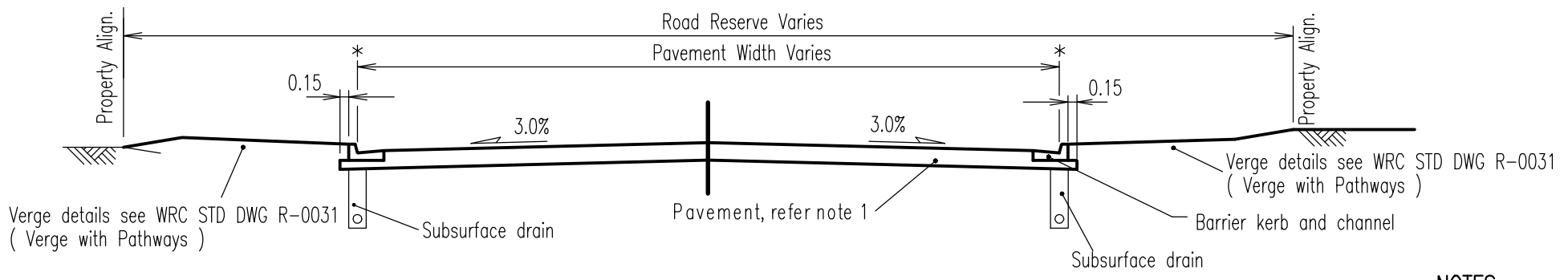
	RESERVE WIDTH	PAVEMENT WIDTH	MIN VERGE WIDTH
ACCESS STREET	16.0	6.0	5.0
COLLECTOR	20.0	7.5	5.0



URBAN RESIDENTIAL

URBAN RESIDENTIAL SPECIFICATIONS
(Refer Table 1.4-1 for total requirements)

	RESERVE WIDTH	PAVEMENT WIDTH	MIN VERGE WIDTH
ACCESS PLACE	15.0	3.5	3.0
ACCESS STREET	15.0	5.5	3.0
COLLECTOR	17.0	7.5	3.5
TRUNK COLLECT.	21.0	9.0	4.5
SUB ARTERIAL	25.0	11.0	5.5



COMMERCIAL / INDUSTRIAL

COMMERCIAL / INDUSTRIAL SPECIFICATIONS
(Refer Table 1.4-1 for total requirements)

	RESERVE WIDTH	PAVEMENT WIDTH	MIN VERGE WIDTH
ACCESS STREET	21.0	12.0	4.5
COLLECTOR	23.0	14.0	4.5

NOTES:

1. For pavement design requirements refer Development manual.
2. All dimensions in metres.

LEGEND

* NOMINAL kerb line

REVISIONS	DATE
C GENERAL UPDATES AND STANDARD REFERENCING AMENDMENTS	24/5/16
B AREA SPECIFICATIONS TABLE AMENDED	10/3/98
A ORIGINAL ISSUE	1/3/97

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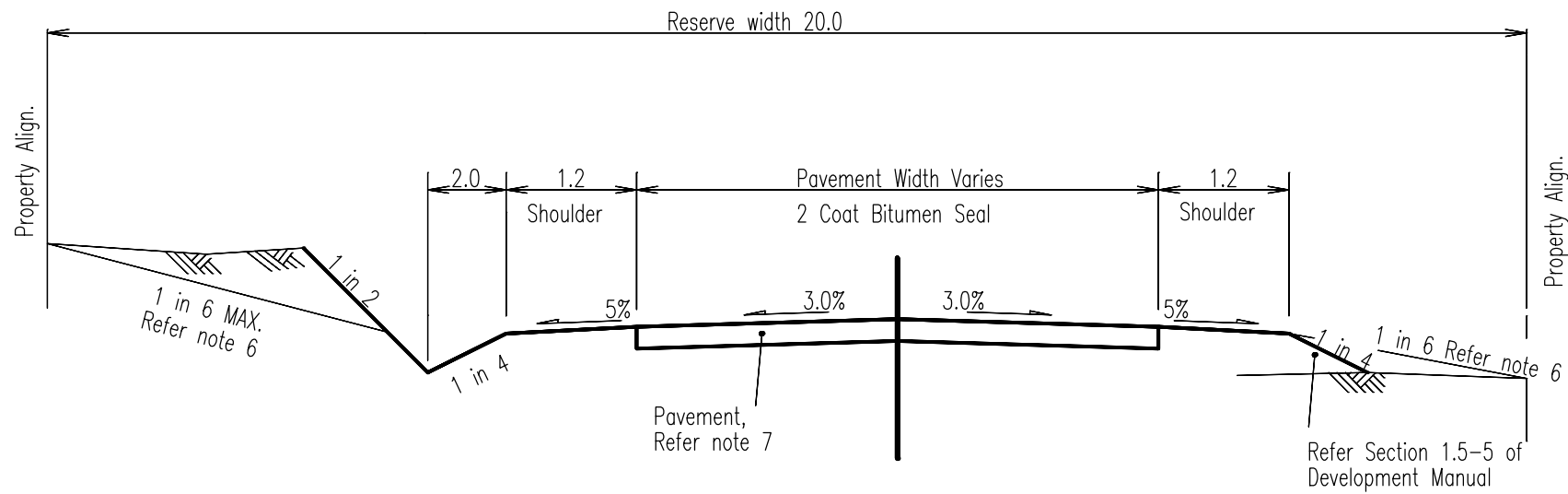
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TYPE CROSS SECTIONS
COMMERCIAL / INDUSTRIAL STREETS
URBAN RESIDENTIAL AND
LOW DENSITY RESIDENTIAL < 1.0 HA

ROAD/STREET
Standard
Drawing
R-0032

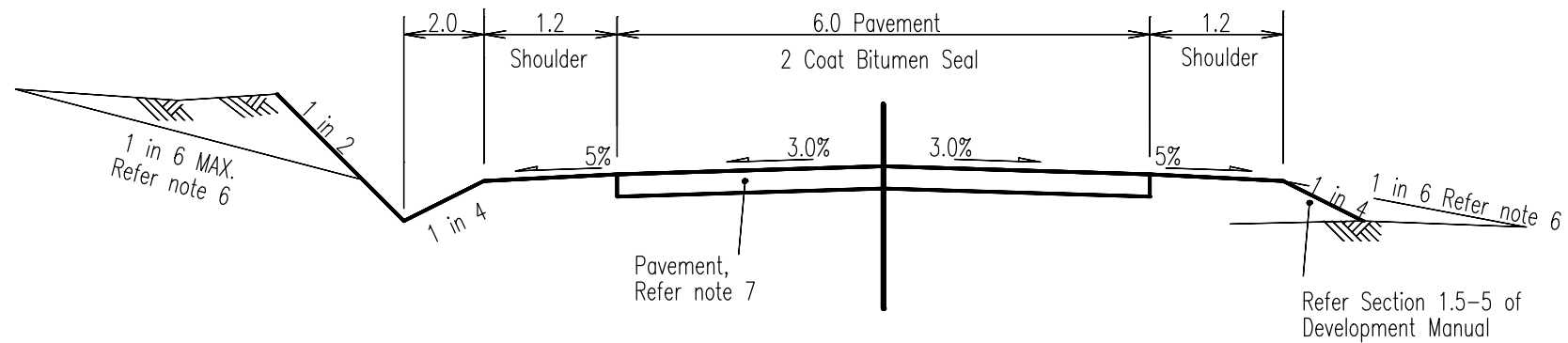
A | B | C



LOW DENSITY RESIDENTIAL > 1.0 HA

LOW DENSITY RESIDENTIAL > 1.5 HA
(Refer Table 1.4-1 for total requirements)

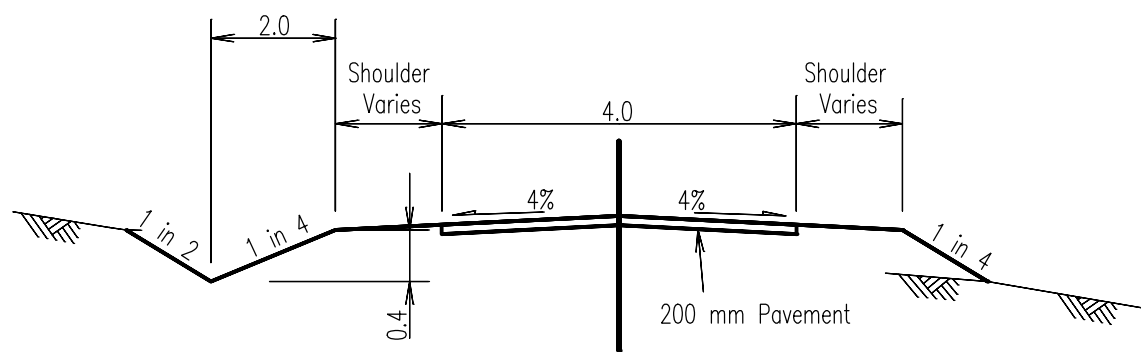
	RESERVE WIDTH	PAVEMENT WIDTH	SHOULDER WIDTH	MIN VERGE WIDTH
ACCESS STREET	20.0	6.0	1.2	5.0
COLLECTOR	20.0	7.5	1.2	5.0



RURAL ROAD - SEALED

RURAL ROAD - SEALED
(Refer Table 1.4-1 for total requirements)

No. LOTS	RESERVE WIDTH	PAVEMENT WIDTH	SHOULDER WIDTH
31-100	20.0	6.0	1.2



RURAL ROAD - UNSEALED

RURAL ROAD - UNSEALED
(Refer Table 1.4-1 for total requirements)

No. LOTS	RESERVE WIDTH	PAVEMENT WIDTH	SHOULDER WIDTH
1-15	20.0	4.0	1.2
16-30	20.0	4.0	2.4

LEGEND

- Refer development permit for type of construction to be adopted.
- 150mm MIN. pavement overlap

NOTES:

- Table Drains steeper than 5% should have erosion protection measures installed.
- Cut batter slopes may be varied on site to ensure long term stability of batters.
- Minimum slope of table drain inverts shall be 0.5% (1 in 200).
- Floodways shall be constructed with cross road drainage nominated in development permit.
- Unsealed roads shall be designed using parameters set out in AUSTRROADS "Unsealed Roads Manual" unless noted otherwise in the project drawings.
- One access point to be constructed to each lot at a maximum slope of 1 in 6. The access point is to have a pipe crossing where a table drain is provided.
- For pavement design requirements refer Development manual.
- All dimensions in metres unless shown otherwise.

REVISIONS	DATE
C GENERAL UPDATES AND STANDARD REFERENCING AMENDMENTS	24/5/16
B AREA SPECIFICATION TABLE AMENDED	10/3/98
A ORIGINAL ISSUE	1/3/97



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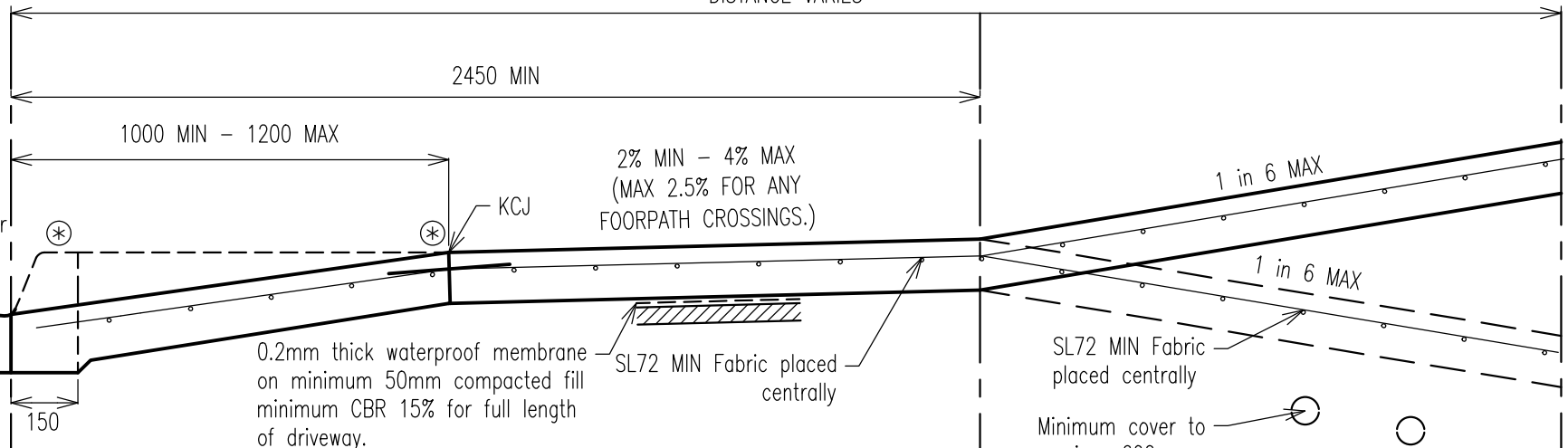
TYPE CROSS SECTIONS
RURAL ROADS

ROAD/STREET
Standard
Drawing
R-0033

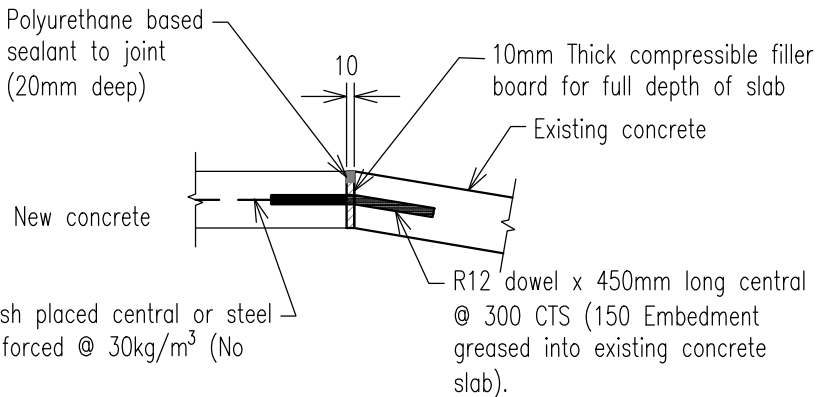
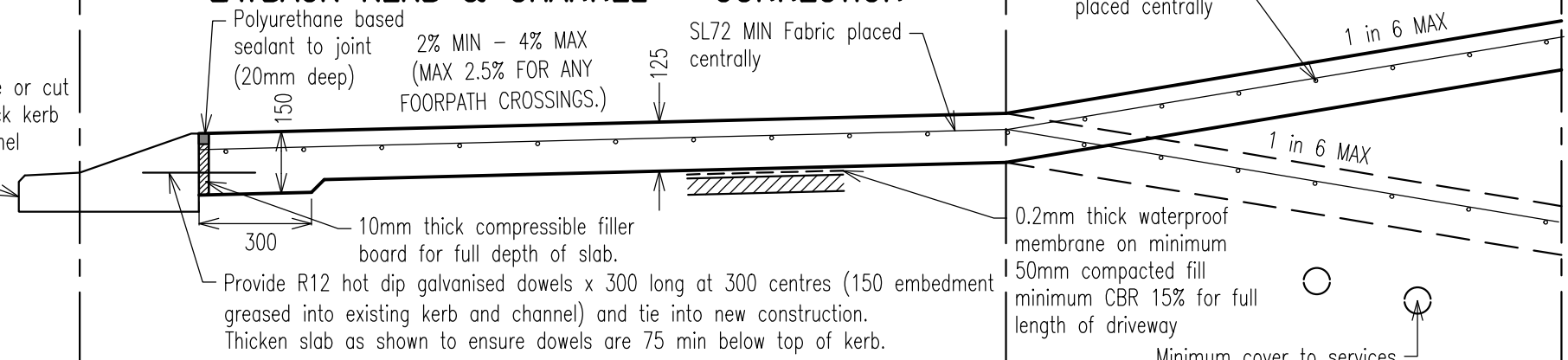
A	B	C		
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**TYPE 1
BARRIER KERB & CHANNEL – BREAKOUT**

DISTANCE VARIES

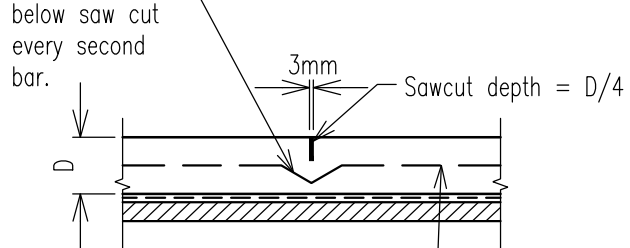


**TYPE 2
LAYBACK KERB & CHANNEL – CONNECTION**



KEY CONSTRUCTION JOINT (KCJ)

Remove existing barrier kerb and channel



CONTRACTION JOINT (CJ)

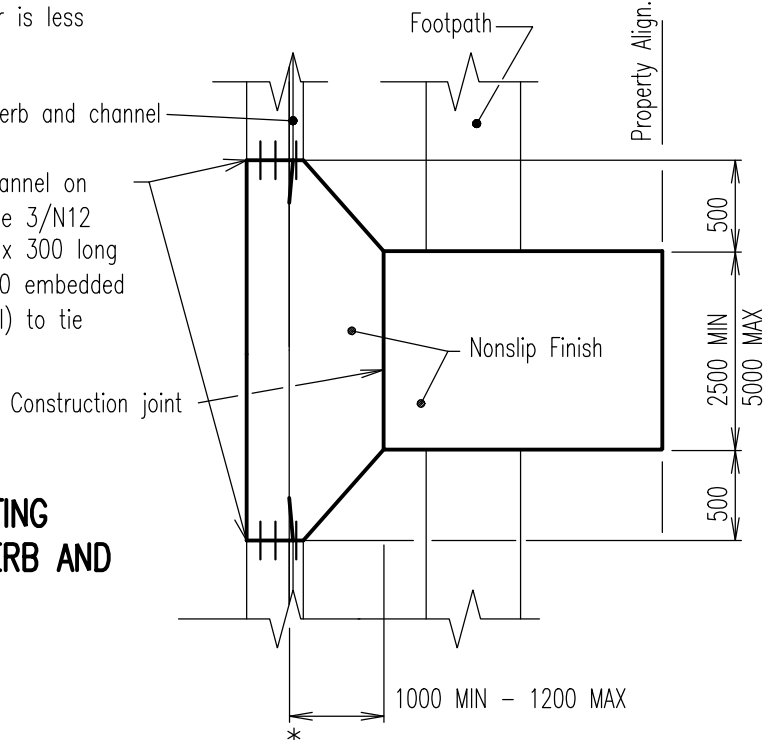
Refer to WRC STD DWG R-0080 for barrier kerb and channel details

Refer to WRC STD DWG R-0080 for layback kerb and channel details

DO NOT remove or cut existing layback kerb and channel

Refer to WRC STD DWG R-0080 for layback kerb and channel details

Saw cut existing kerb and channel on both sides of driveway. Provide 3/N12 hot dipped galvanised dowels x 300 long on each side of driveway (150 embedded into existing kerb and channel) to tie into new construction.



**SLAB ABUTTING
BARRIER KERB AND
CHANNEL**

LEGEND

- * NOM. kerb line.
- ⊗ Levels at these points to be equal

NOTES:

1. Access driveways with grades greater than 10% (10:1) within property boundaries shall be constructed with non erodible material (ie Bitumen, Asphalt, Concrete, Pavers). Side drains shall be lined and batter slopes protected to prevent erosion. All drainage from within the property and on the driveway surface shall be collected at or inside the property boundary and discharged by way of a sealed pipe or other approved means to councils drainage system.
2. Crossings are not designed for commercial vehicles.
3. Footpath sections to vary where necessary to match concrete footpaths and verge profiles. Footpath earthworks adjoining concrete must be well compacted.
4. Concrete surface tolerance to be, +0.5MM -0mm over 3 metre sections.
5. Concrete 32 MPa in accordance with AS 1379:2007 and AS 3600:2009.
6. Curing of all concrete surfaces is to be carried out immediately after finishing as per AS 3600:2009 section 4 for a minimum of 7 days.
7. Reinforcement fabric to AS/NZS 4671:2001, minimum 50 top and edge cover, lap fabric 250.
8. Approved materials for construction :- Concrete, Paving blocks or Asphalt, refer project drawings.
9. Expansion joints to be 10 thick, full depth closed cell cross linked polyethylene foam (85 - 150 kg/m³).
10. A Road works permit must be obtained from council. Seek approval of location and levels prior to excavation.
11. Kerb openings and driveway construction shall be carried out in the section of road reserve contained within the extended property boundary lines.
12. All dimensions in millimetres. Do not scale drawings use figured dimensions.

REVISIONS	DATE
E GENERAL UPDATES AND STANDARD REFERENCING AMENDMENTS	24/5/16
D GENERAL UPDATES	15/2/12
C DRIVEWAY WIDTH CHANGED	10/03/08
B MAJOR REVISION	10/3/98
A ORIGINAL ISSUE	1/3/97



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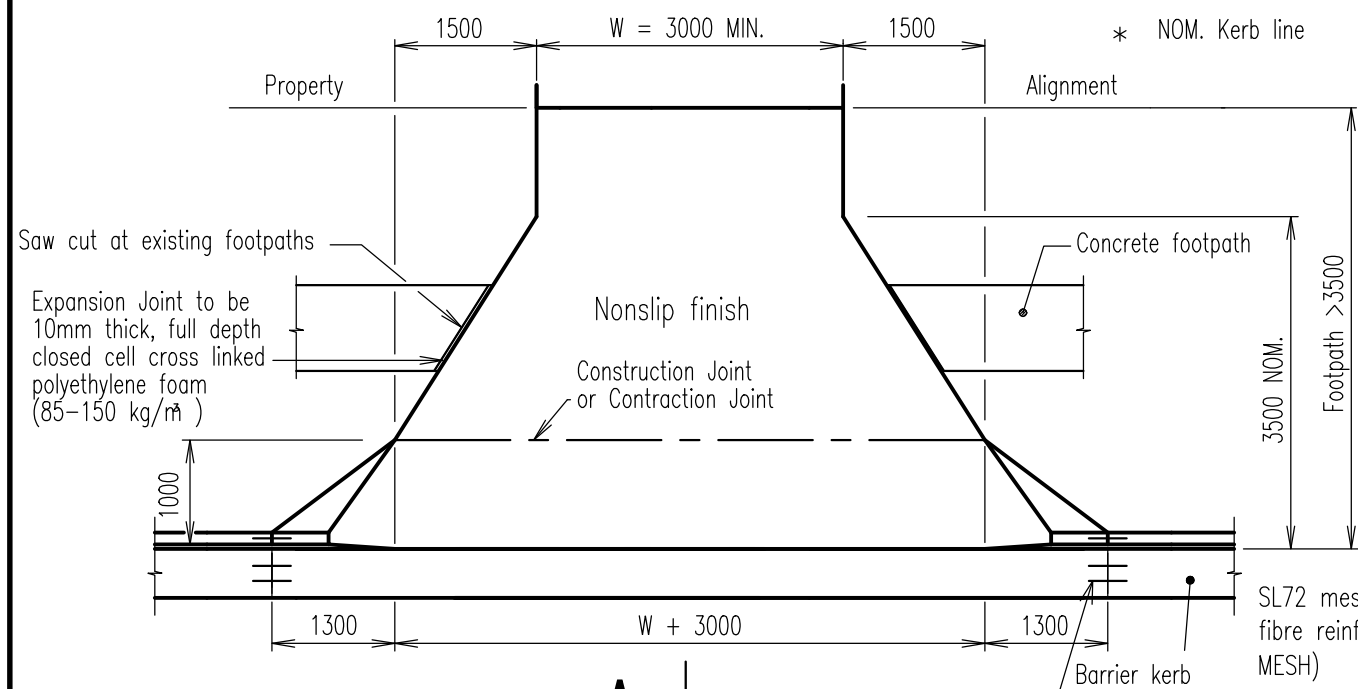
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**RESIDENTIAL DRIVEWAY
SLAB AND TRACKS**

**ROAD/STREET
Standard
Drawing
R-0050**

A B C D E

PLAN - WIDE FOOTPATHS



Expansion Joint to be 10mm thick, full depth closed cell cross linked polyethylene foam (85-150 kg/m³)

Nonslip finish

Construction Joint or Contraction Joint

Concrete footpath

Barrier kerb and channel

Footpath > 3500

3500 NOM.

W + 3000

1300

1500

W = 3000 MIN.

1500

Property

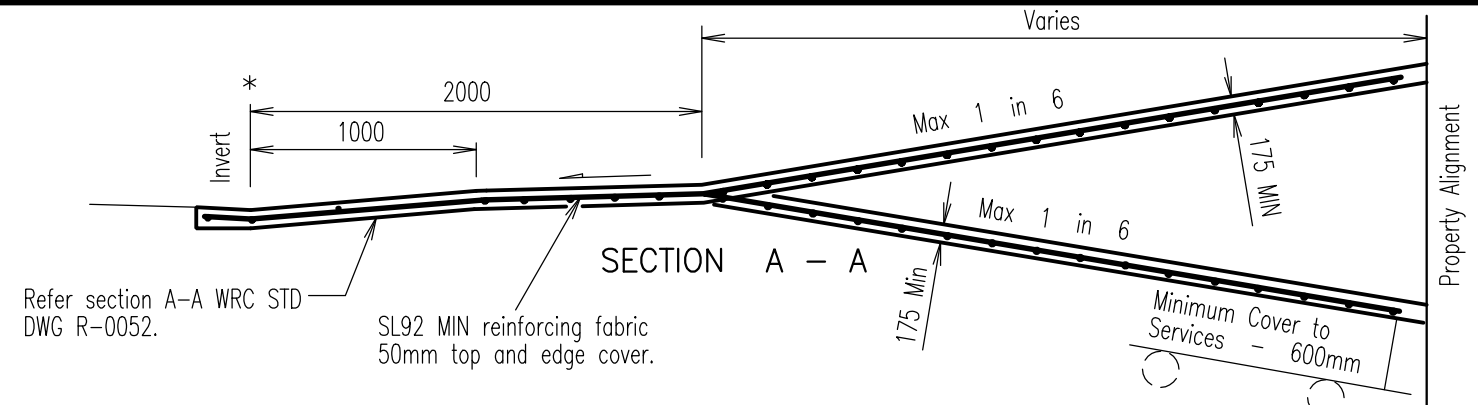
Alignment

Saw cut at existing footpaths

Provide 3/N16 hot dipped galvanised dowels x 450 long on each side of driveway (150 embedded into existing kerb and channel) to tie into new construction.

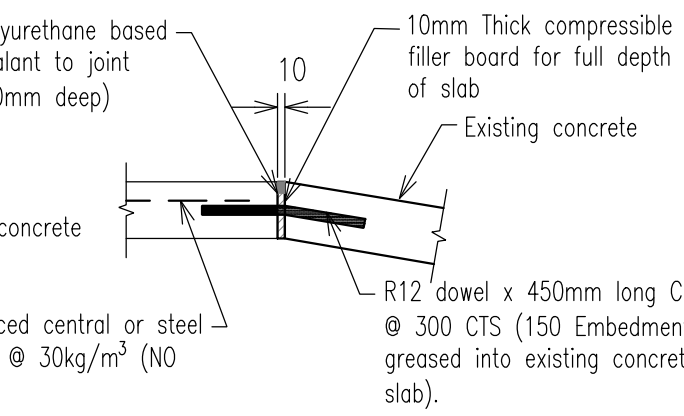
LEGEND

* NOM. Kerb line



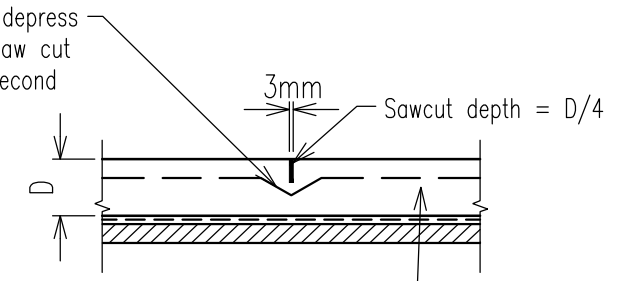
Refer section A-A WRC STD DWG R-0052.

SL92 MIN reinforcing fabric 50mm top and edge cover.



KEY CONSTRUCTION JOINT (KCJ)

Key construction joints to be provided between all abutting new and existing concrete works



CONTRACTION JOINT (CJ)

SL92 mesh, 50 top cover or steel fibre reinforced @ 30kg/m³ (No mesh)

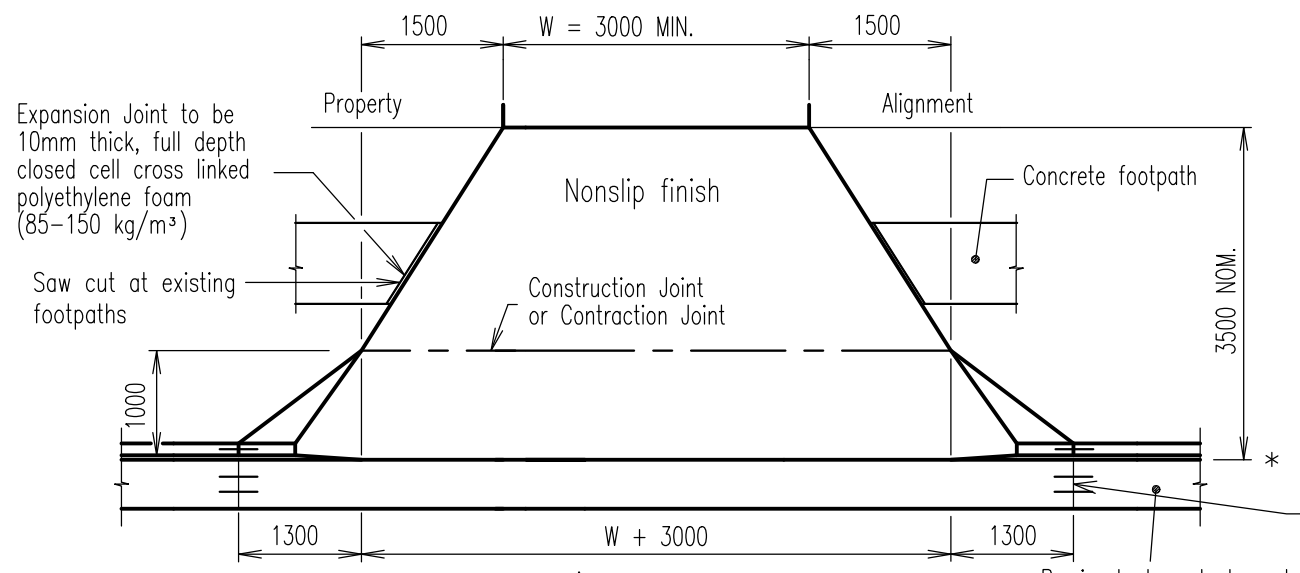
6.0 maximum centres but not more than the width of the access, whichever is less

Provide 3/N16 hot dipped galvanised - dowels x 450 long on each side of driveway (150 embedded into existing kerb and channel) to tie into new construction.

NOTES:

- Access driveways with grades greater than 10% (10:1) within property boundaries shall be constructed with non erodible material (ie Bitumen, Asphalt, Concrete, Pavers). Side drains shall be lined and batter slopes protected to prevent erosion. All drainage from within the property and on the driveway surface shall be collected at or inside the property boundary and discharged by way of a sealed pipe or other approved means to councils drainage system.
- Footpath sections to vary where necessary to match concrete footpaths and verge profiles. Footpath earthworks adjoining concrete must be well compacted.
- Depths of concrete and reinforcing steel shown are the minimum requirements for good foundation conditions, and average traffic loading. Where this does not apply, depths of concrete and reinforcing shall be increased to suit specific conditions.
- Concrete surface tolerance to be, +0.5MM -0mm over 3 metre sections.
- Concrete 32 MPa in accordance with AS 1379:2007 and AS 3600:2009.
- Curing of all concrete surfaces is to be carried out immediately after finishing as per AS 3600:2009 section 4 for a minimum of 7 days.
- Reinforcement fabric to AS/NZS 4671:2001, minimum 50 top and edge cover, lap fabric 250.
- Approved materials for construction :- Concrete, Paving blocks or Asphalt, refer project drawings.
- Expansion joints to be 10mm thick, full depth closed cell cross linked polyethylene foam (85 - 150 kg/m³).
- Design of crossings may vary, refer project drawings.
- Dimension W, 3.0m one-way or 5.5m two-way.
- Reprofile adjacent footpath to match driveway. Footpath earthworks adjoining concrete must be well compacted.
- Existing footpath profile to be maintained where possible.
- Compaction for subgrade 95% Standard to AS 1289.5.1.1:2003.
- Where subgrade is less than CBR 5 excavate and provide imported material to satisfaction of the Superintendent.
- A Road works permit must be obtained from council. Seek approval of location and levels prior to excavation.
- Kerb openings and driveway construction shall be carried out in the section of road reserve contained within the extended property boundary lines.
- All dimensions in millimetres. Do not scale drawings use figured dimensions.

PLAN - 3.5m FOOTPATH



Expansion Joint to be 10mm thick, full depth closed cell cross linked polyethylene foam (85-150 kg/m³)

Nonslip finish

Construction Joint or Contraction Joint

Concrete footpath

Barrier kerb and channel

Footpath > 3500

3500 NOM.

W + 3000

1300

1500

W = 3000 MIN.

1500

Property

Alignment

Saw cut at existing footpaths

Provide 3/N16 hot dipped galvanised - dowels x 450 long on each side of driveway (150 embedded into existing kerb and channel) to tie into new construction.

REVISIONS	DATE
C GENERAL UPDATES AND STANDARD REFERENCING AMENDMENTS	24/5/16
B GENERAL UPDATES	10/3/98
A ORIGINAL ISSUE	1/3/97



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COMMERCIAL DRIVEWAY SLAB TYPE A-TWO WAY ACCESS

ROAD/STREET
Standard
Drawing
R-0051

A	B	C
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PLAN – 3.5m FOOTPATH

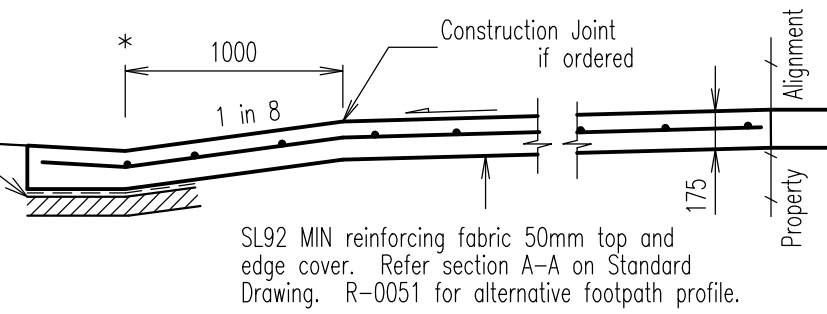
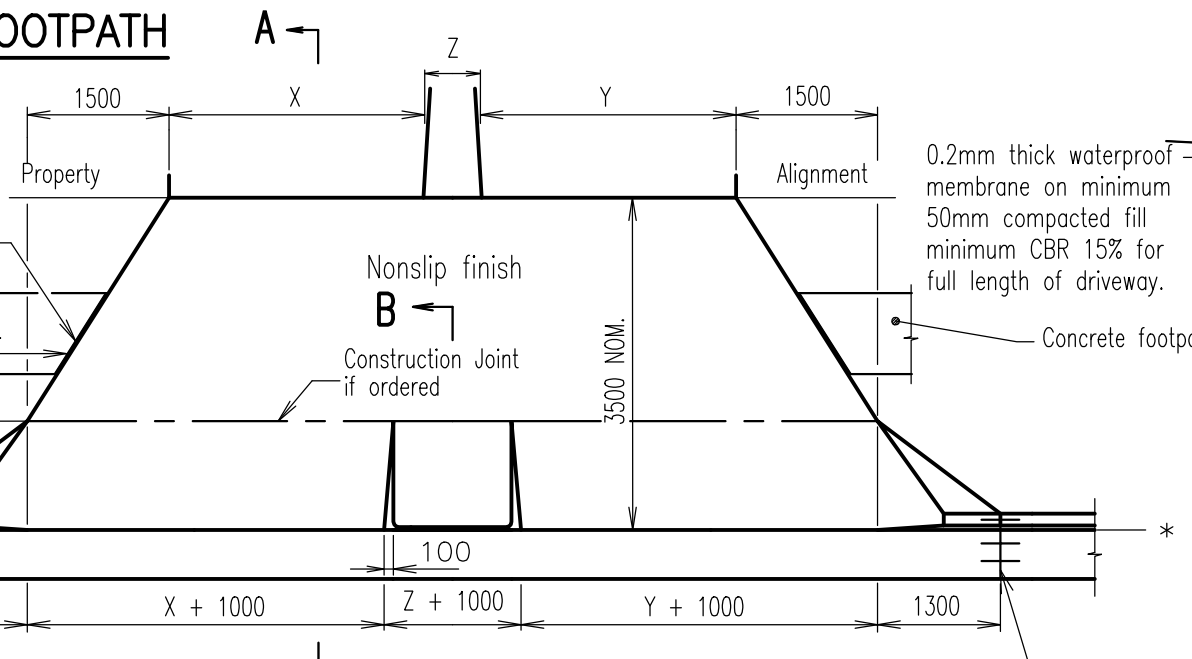
LEGEND

* NOMINAL kerb line.

Saw cut at existing footpaths

Expansion Joint to be 10mm thick, full depth closed cell cross linked polyethylene foam (85–150kg/m³)

Barrier kerb and channel



SECTION A – A

NOTES:

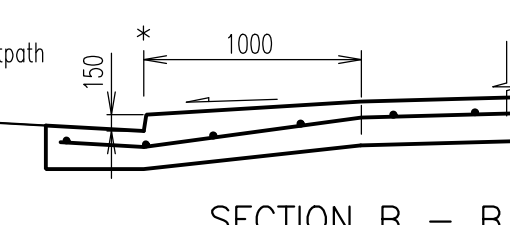
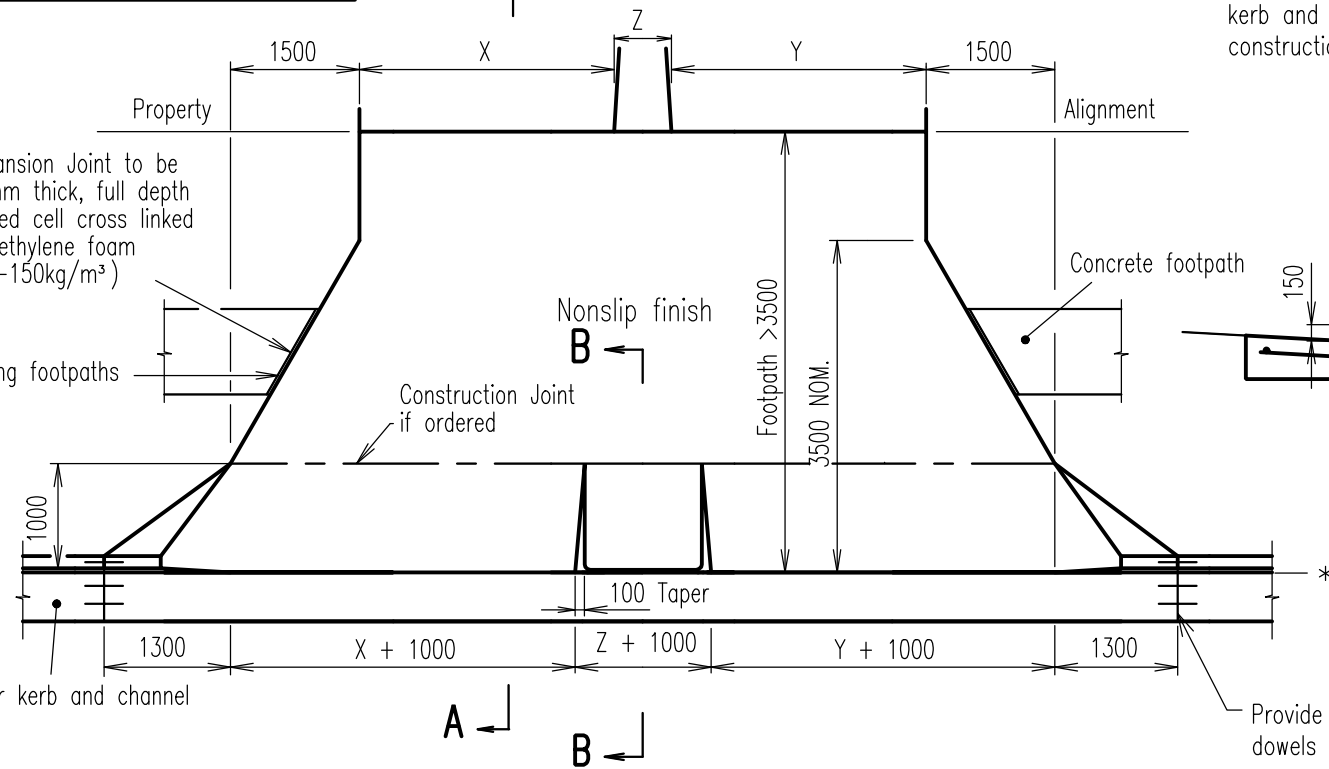
- Access driveways with grades greater than 10% (10:1) within property boundaries shall be constructed with non erodible material (ie Bitumen, Asphalt, Concrete, Pavers). Side drains shall be lined and batter slopes protected to prevent erosion. All drainage from within the property and on the driveway surface shall be collected at or inside the property boundary and discharged by way of a sealed pipe or other approved means to councils drainage system.
- Depths of concrete and reinforcing steel shown are the minimum requirements for good foundation conditions, and average traffic loading. Where this does not apply, depths of concrete and reinforcing shall be determined by engineer.
- Design of crossings may vary, refer project drawings.
- Dimensions X, Y, & Z, refer specification or project drawings.
- Reprofile adjacent footpath to match driveway. Footpath earthworks adjoining concrete must be well compacted.
- Existing footpath profile to be maintained where possible.
- Footpath sections to vary where necessary to match concrete footpaths and verge profiles. Footpath earthworks adjoining concrete must be well compacted.
- Concrete surface tolerance to be, +0.5MM –0mm over 3 metre sections.
- Concrete 32 MPa in accordance with AS 1379:2007 and AS 3600:2009.
- Curing of all concrete surfaces is to be carried out immediately after finishing as per AS 3600:2009 section 4 for a minimum of 7 days.
- Reinforcement fabric to AS/NZS 4671:2001, 50 top and edge cover, lap fabric 250.
- Approved materials for construction :- Concrete, Paving blocks or Asphalt, refer project drawings.
- Expansion joints to be 10 thick, full depth closed cell cross linked polyethylene foam (85 – 150 kg/m³).
- Compaction for subgrade 95% Standard to AS 1289.5.1.1:2003.
- Where subgrade is less than CBR 5 excavate and provide imported material to satisfaction of the Superintendent.
- A Road works permit must be obtained from council. Seek approval of location and levels prior to excavation.
- Kerb openings and driveway construction shall be carried out in the section of road reserve contained within the extended property boundary lines.
- All dimensions in millimetres. Do not scale drawings use figured dimensions.

PLAN – WIDE FOOTPATHS

Expansion Joint to be 10mm thick, full depth closed cell cross linked polyethylene foam (85–150kg/m³)

Saw cut at existing footpaths

Barrier kerb and channel



SECTION B – B

Provide 3/N16 hot dipped galvanised dowels x 450 long on each side of driveway (150 embedded into existing kerb and channel) to tie into new construction.

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C GENERAL UPDATES AND STANDARD REFERENCING AMENDMENTS	24/5/16
B GENERAL UPDATES	15/2/12
A ORIGINAL ISSUE	1/3/97



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COMMERCIAL DRIVEWAY SLAB TYPE B – TWO LANES ACCESS

ROAD/STREET
Standard
Drawing
R-0052

A	B	C
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Design Speed (km/hr)	Z (m)
60	27
80	36
100	45

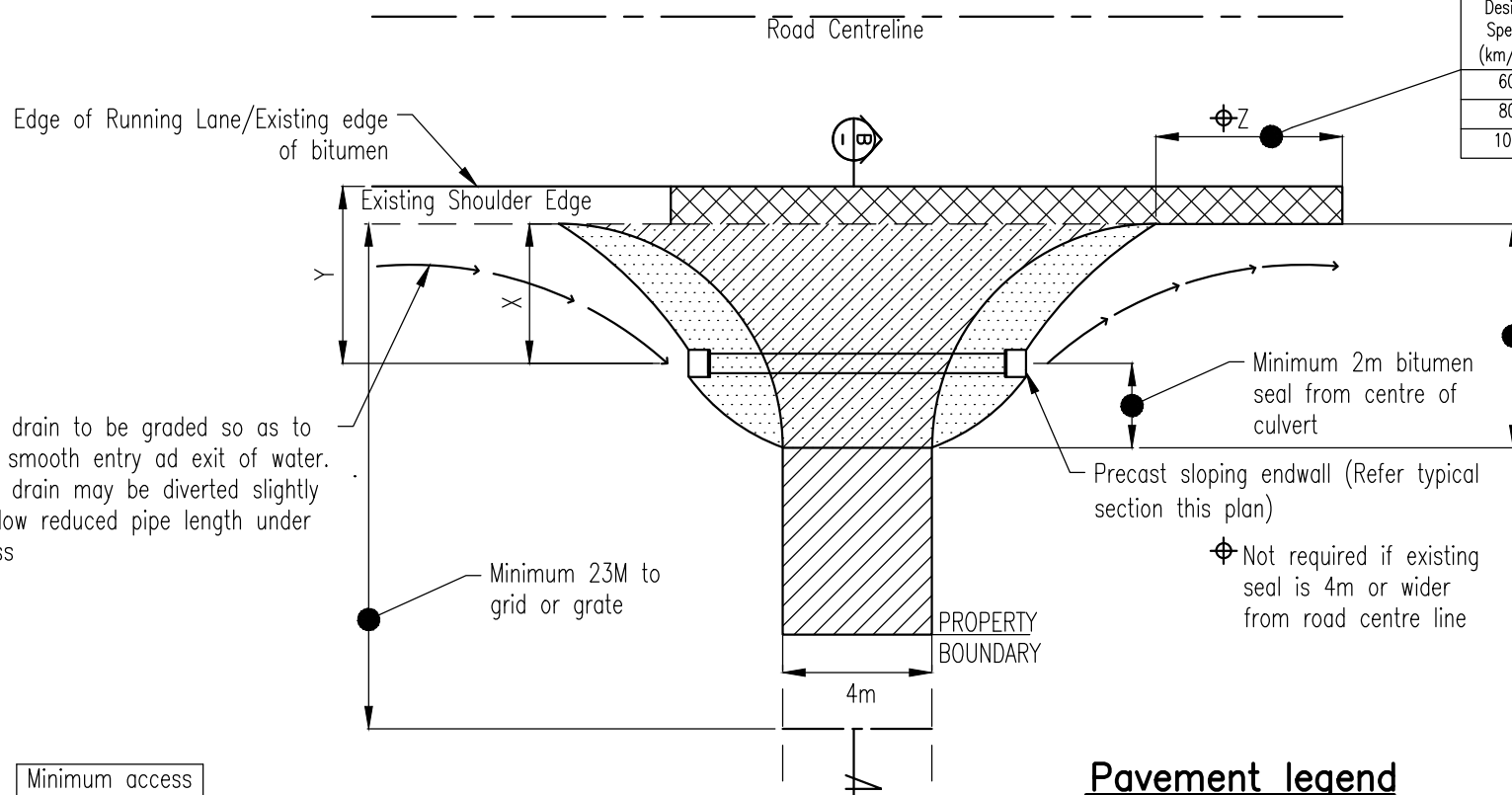
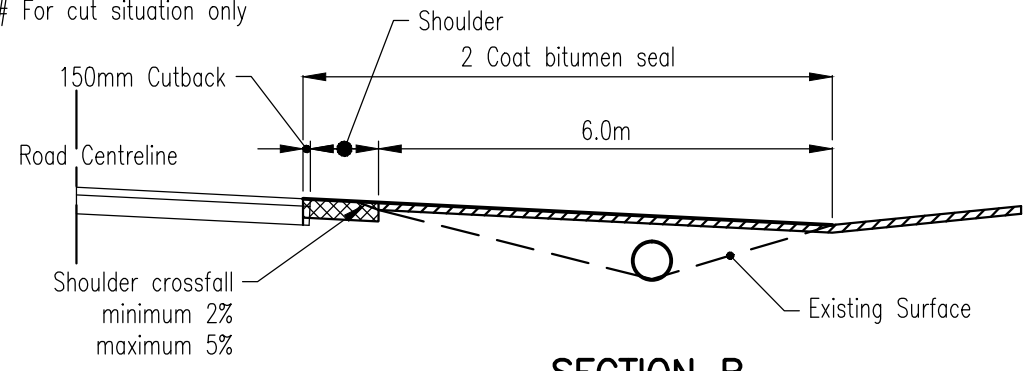


Table drain to be graded so as to allow smooth entry and exit of water. Table drain may be diverted slightly to allow reduced pipe length under access

Distance 'X' (m)	Length (m)
1#	8.54
2#	6.10
3	4.88

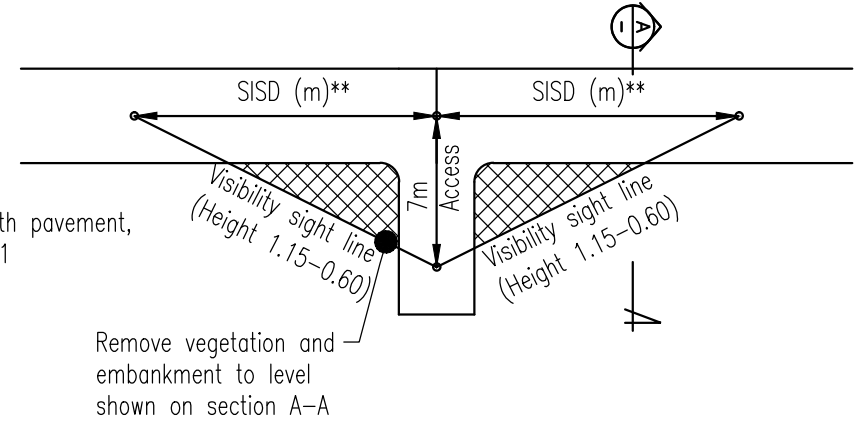
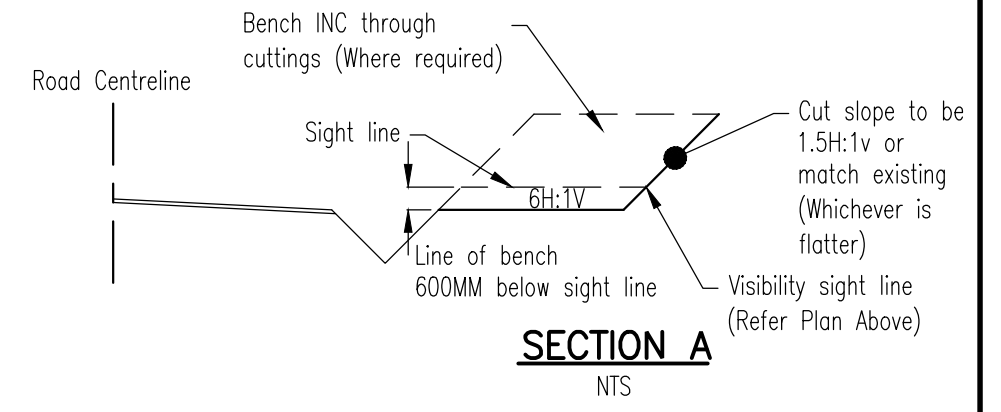
For cut situation only



SECTION B
NTS

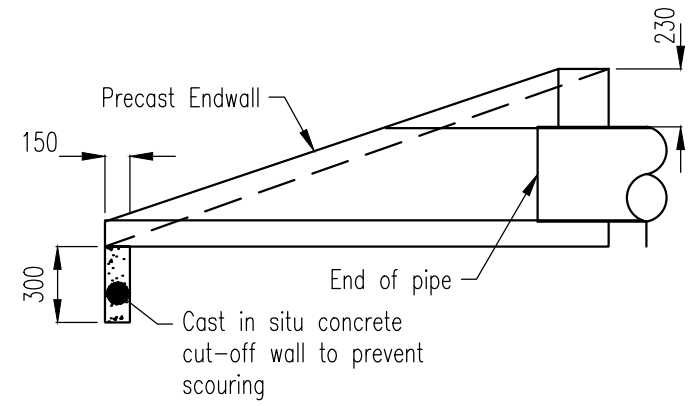
Pavement legend

- Existing shoulder to be full depth pavement, minimum 200mm Base, type 2.1
- 100mm Base, type 2.5
- 2 coat bitumen seal (for new driveways only)



Safe intersection sight distance (SISD)	
Design speed km/hr	SISD (m)
60	115
80	175
100	250

VISIBILITY TRIANGLE



SLOPING ENDWALL TYPICAL SECTION

NOTES:

1. Sloping endwall is only required where dimension 'Y' is less than 9m. When dimension 'Y' is over 9m, a square endwall is acceptable, although each case to be considered individually.
2. The fall through the culvert is not to be less than 50mm
3. Guide posts of an approved type are to be placed on each side of the access (Rural area only).
4. Details on project drawings take precedence over any notes or calculations shown on standard drawing.

REVISIONS	DATE
A ORIGINAL ISSUE	19/05/16



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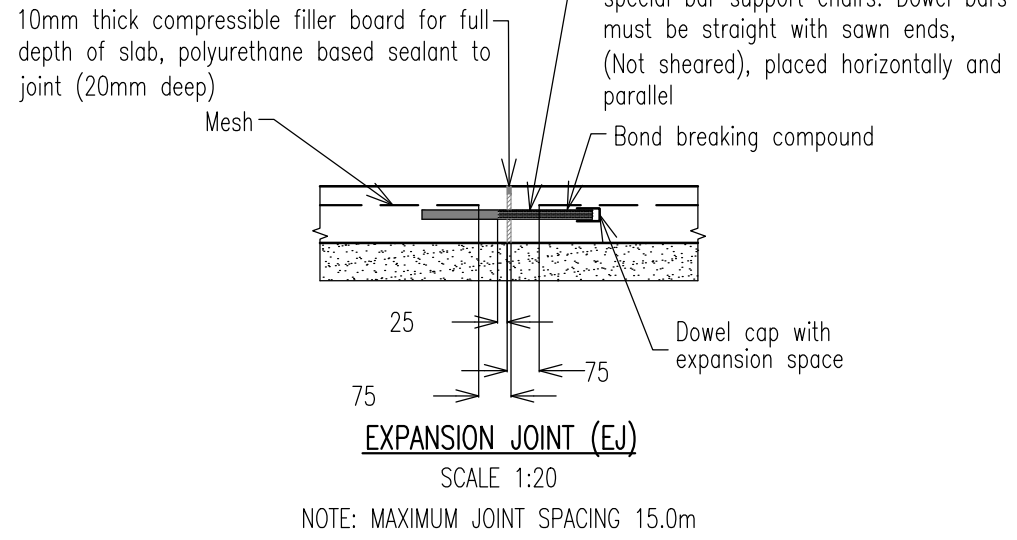
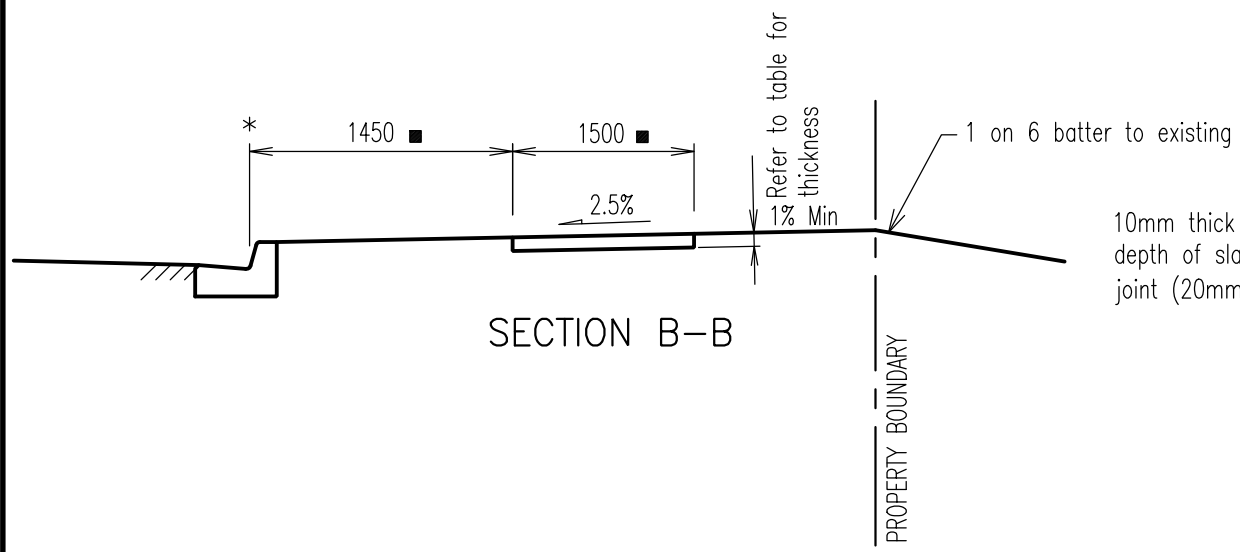
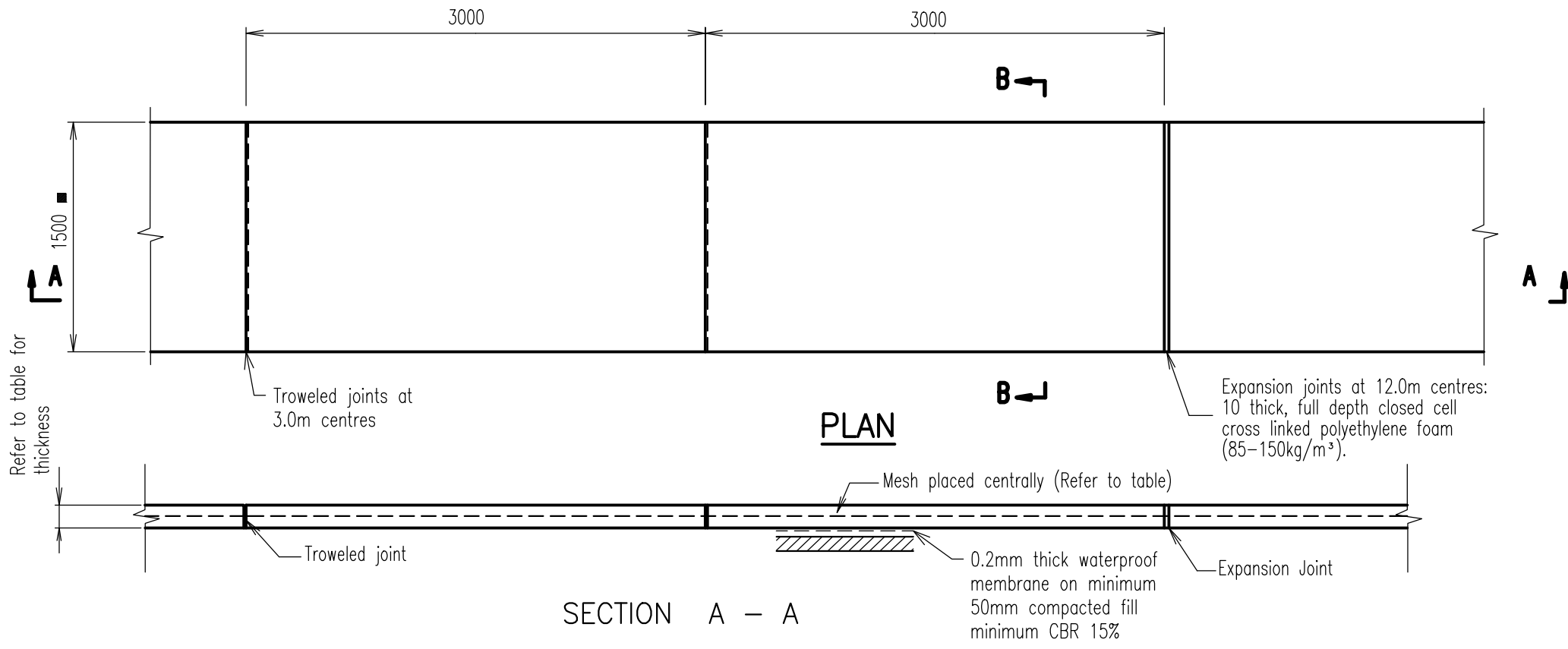
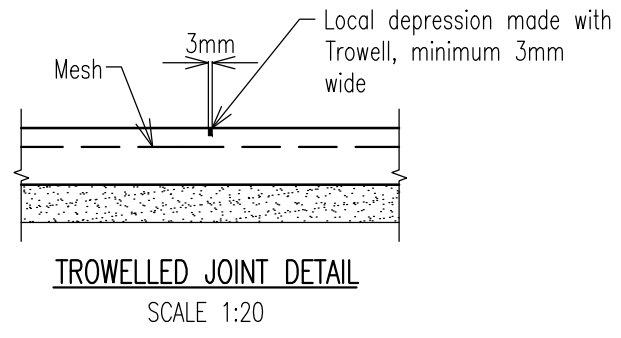
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**TYPICAL MINOR ACCESS
DETAILS FOR COUNCIL
RURAL ROADS**

**ROAD/STREET
Standard
Drawing
R-0053**

A				
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LEGEND

- * NOM kerb line.
- Unless otherwise specified.

NOTES:

1. Concrete MPa 32 in accordance with AS 1379:2007 and AS 3600:2009.
2. All concrete to be broom finished.
3. Troweled joints, 3m MAX spacing. +6mm
4. Finished surface tolerance to be maximum +6mm & -0mm relative to kerb level and crossfall specified.
5. Pattern lines to be square to sides and finished with an approved grooving tool.
6. Concrete footpaths, adjoining existing driveways are to be transitioned over a minimum 5.0m length.
7. A Roadworks permit must be obtained from Council, seek approval of location and levels prior to excavation.
8. All dimensions in millimetres.

PATHWAY LOCATION/DETAILS			
REINFORCING TYPE	FOOTPATH	RESIDENTIAL DRIVEWAY	INDUSTRIAL/COMMERCIAL DRIVEWAY
MESH	100mm N32 SL72	125mm N32 SL72	175mm N32 SL92
COVER	CENTRALLY	CENTRALLY	50mm TOP

REVISIONS	DATE
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B GENERAL UPDATES	15/2/12
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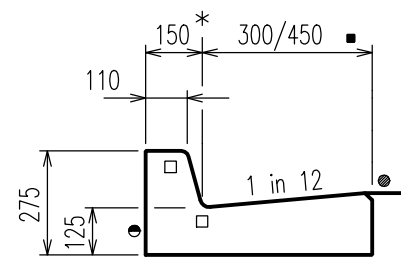
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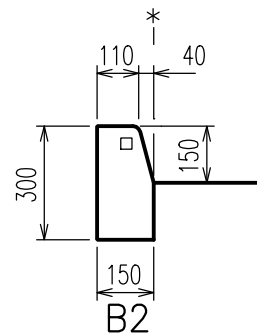
CONCRETE STRIP FOOTPATHS

ROAD/STREET Standard Drawing R-0065

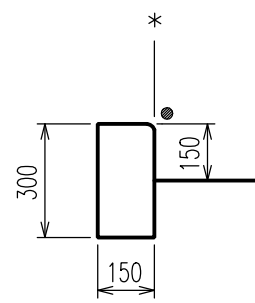
A	B	C		
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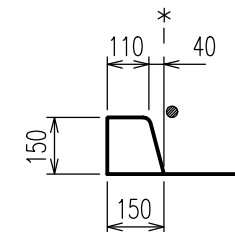
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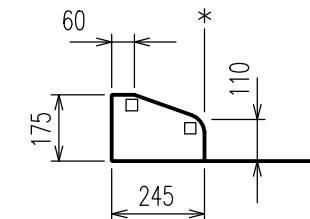
B2



B3

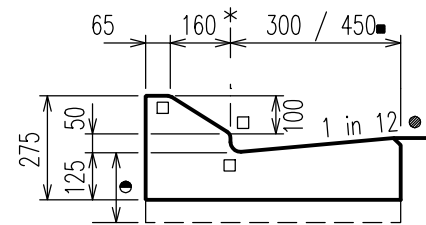


B4

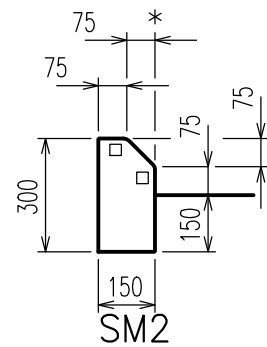


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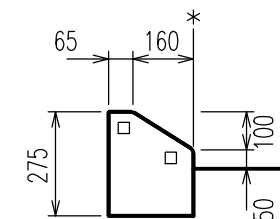
BARRIER TYPE



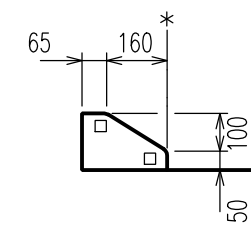
SM1



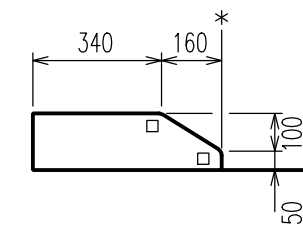
SM2



SM3

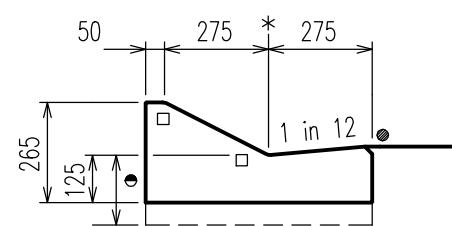


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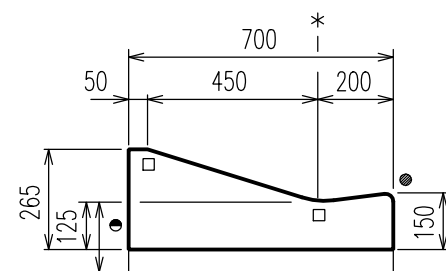


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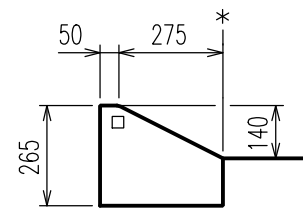
SEMI - MOUNTABLE TYPE



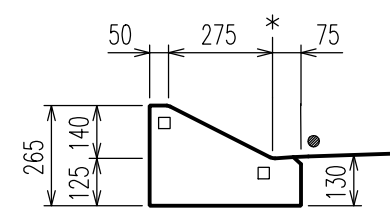
M1



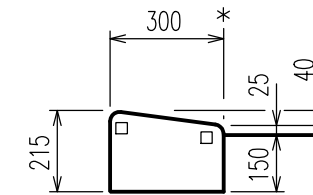
M2



M4

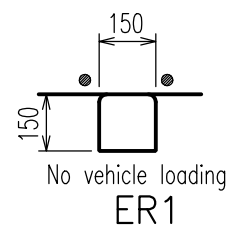


M5

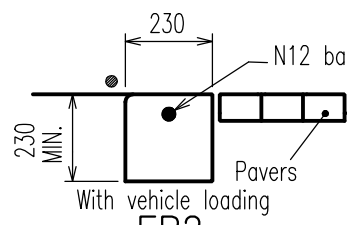


M6

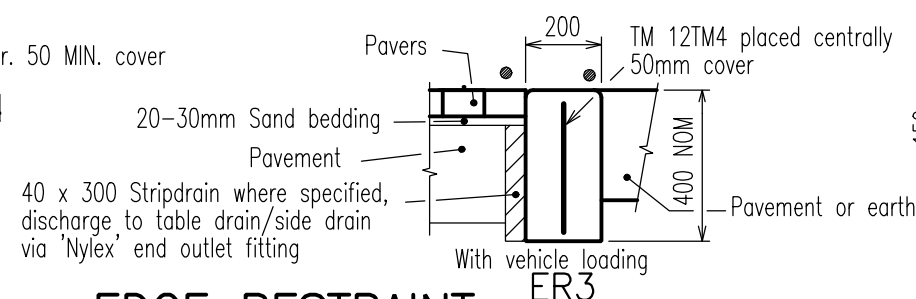
MOUNTABLE TYPE



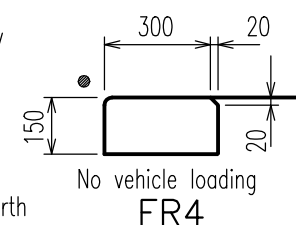
ER1



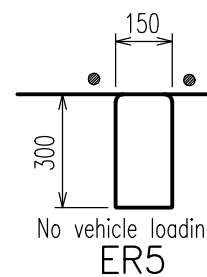
ER2



ER3

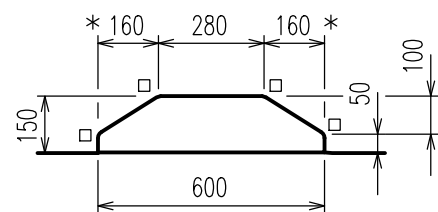


ER4

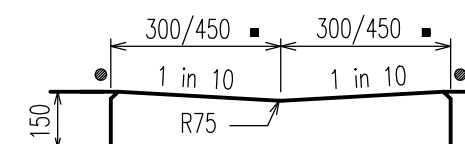


ER5

EDGE RESTRAINT



MEDIAN



INVERT

NOTES:

1. All materials and construction shall comply with AS 2876:2000 except for dimensions on this drawing.
2. All concrete S25 MIN (refer project documentation) in accordance with AS 1379:2007 and AS 3600:2009.
3. Reinforcement bars to AS 1302:2005, trench fabric to AS/NZS 4671:2001.
4. All dimensions in millimetres.

LEGEND

- * Nominal kerb line for setting out.
- Channel, invert width - refer project drawings.
- 10mm Radius.
- R20 Radius.
- 175. for commercial and industrial applications.

REVISIONS	DATE
B GENERAL UPDATES AND STANDARD REFERENCING AMENDMENTS	24/5/16
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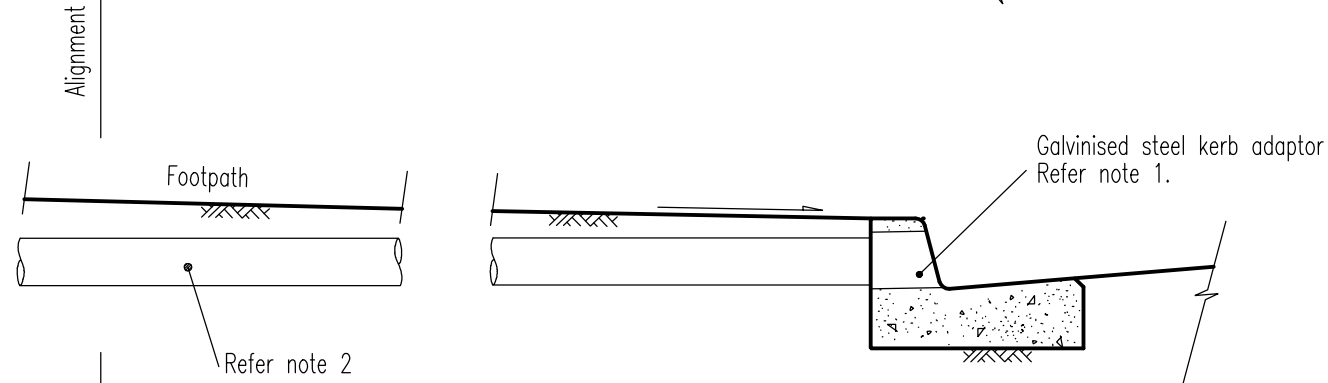
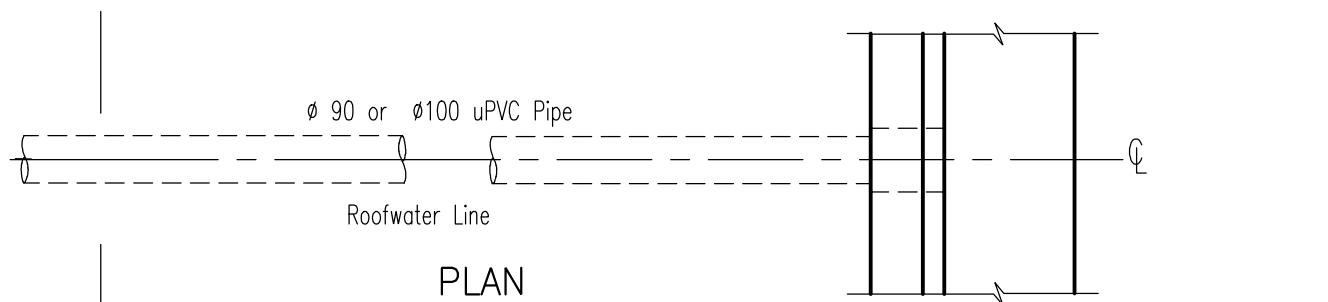
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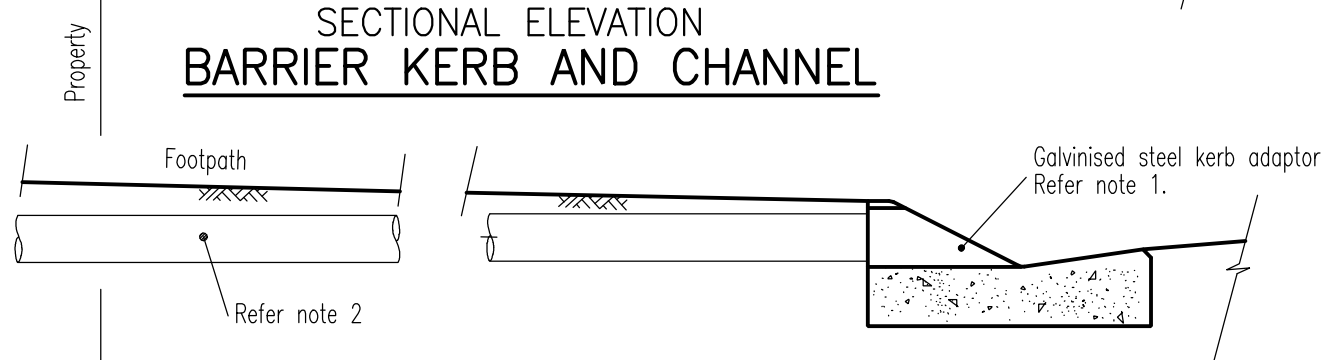
**KERBS AND CHANNELS
PROFILES AND DIMENSIONS
INCL. EDGE RESTRAINTS, MEDIAN & INVERT**

**ROAD/STREET
Standard
Drawing
R-0080**

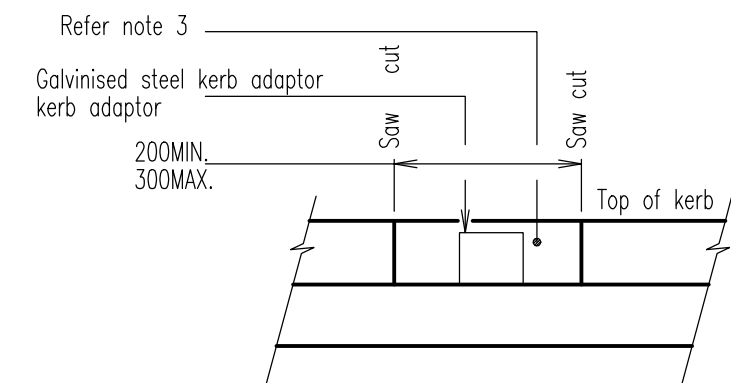
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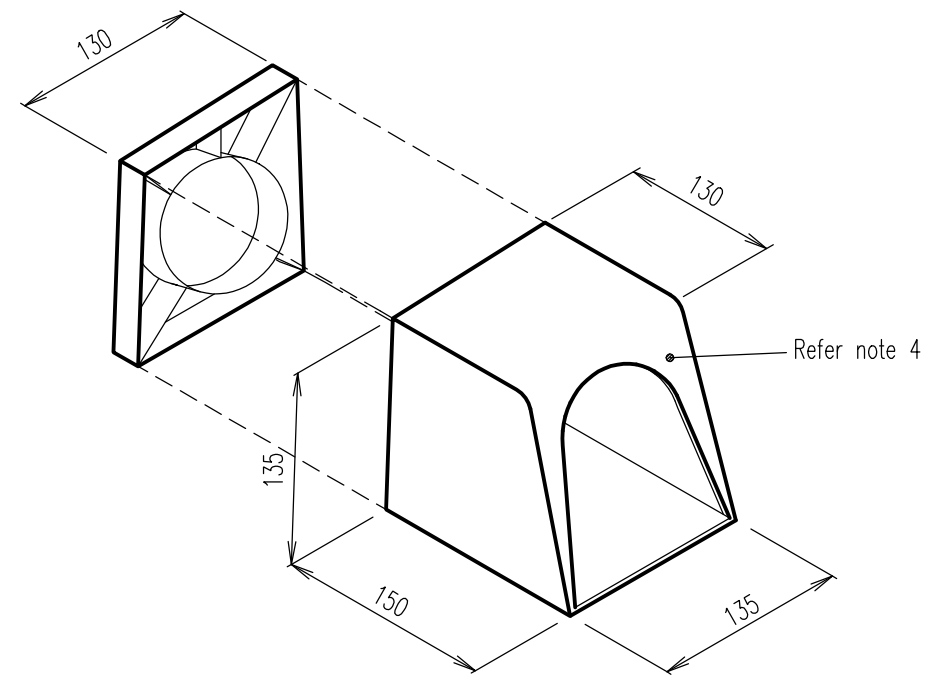
SECTIONAL ELEVATION
BARRIER KERB AND CHANNEL



SECTIONAL ELEVATION
MOUNTABLE KERB AND CHANNEL

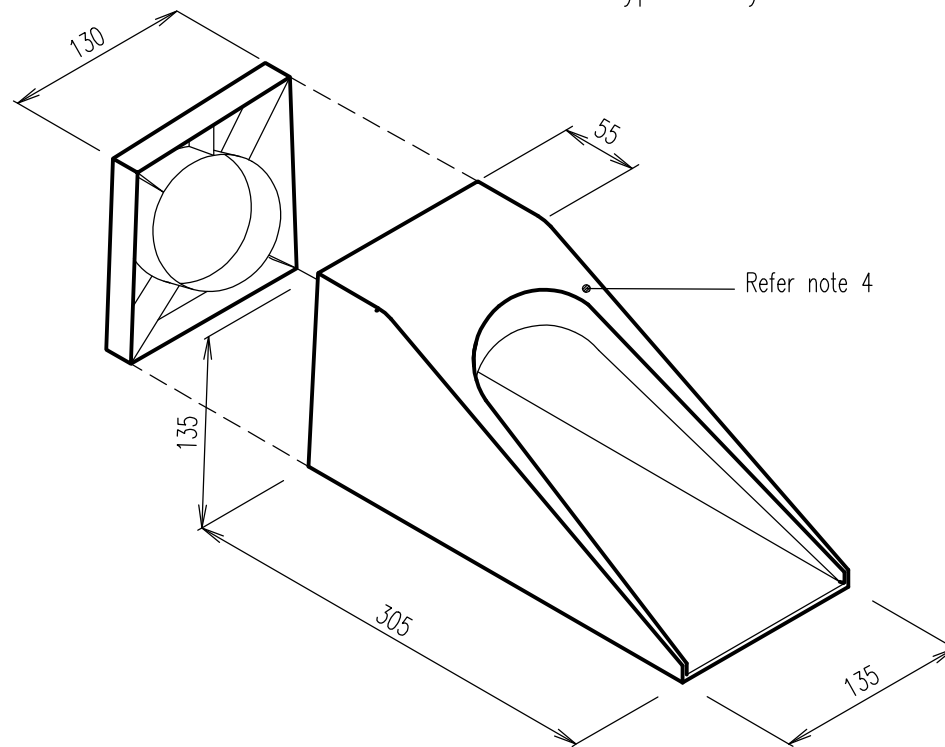


ELEVATION
EXISTING KERB AND CHANNEL



BARRIER KERB ADAPTOR

Typical only ø90 and ø100 uPVC or galvanised steel



MOUNTABLE KERB ADAPTOR

Typical only ø90 and ø100 uPVC or galvanised steel
As approved by W.R.C

NOTES:

1. Standard ø90 or ø100 galv. steel adaptor to suit barrier or mountable type kerb and channel.
2. Pipe across footpath to be laid with the maximum available cover, and with a minimum grade of 1 in 80.
3. At existing kerb and channel saw cut kerb as necessary. Reinstat with N20/10 concrete in accordance with AS 1379:2007 and AS 3600:2009 to clean concrete faces.
4. Use kerb adaptors that match kerb profile.
5. Refer project drawings/specifications for option to be adopted.
6. At new developments seal inlet to adaptor.
7. All dimensions in millimetres.

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C GENERAL UPDATES AND STANDARD REFERENCING AMENDMENTS	24/5/16
B GENERAL UPDATES	15/2/12
A ORIGINAL ISSUE	1/3/97



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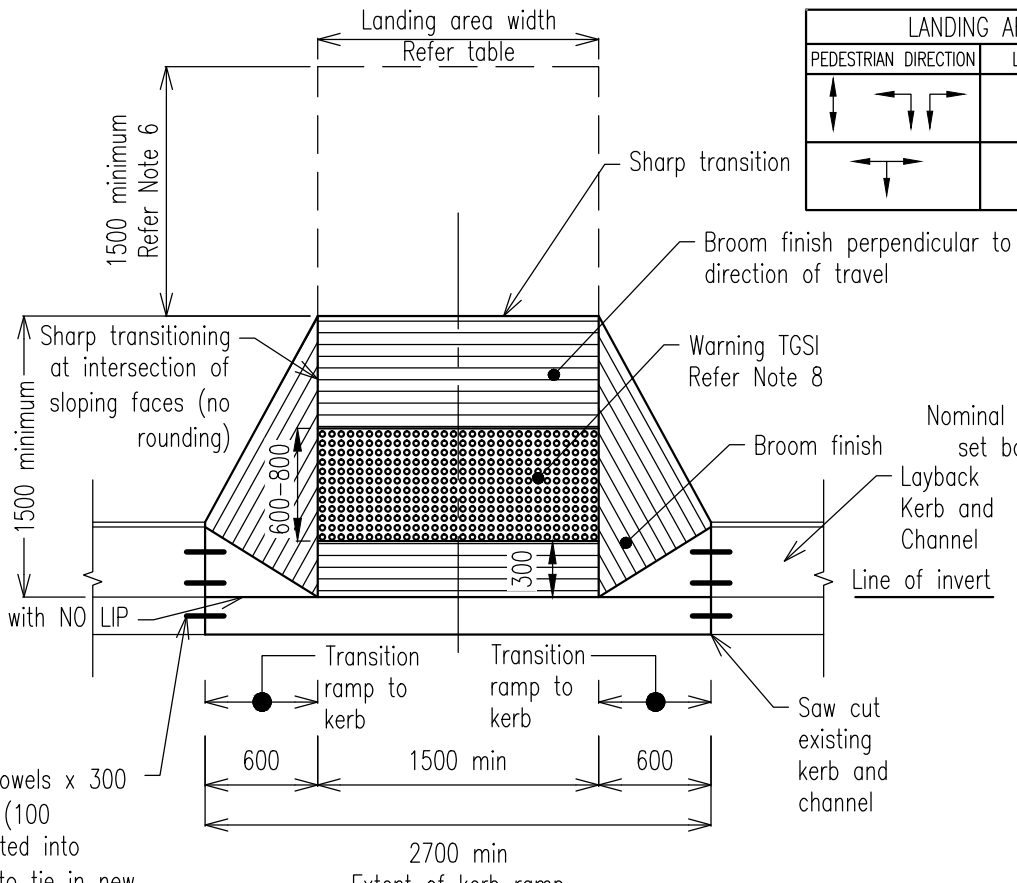
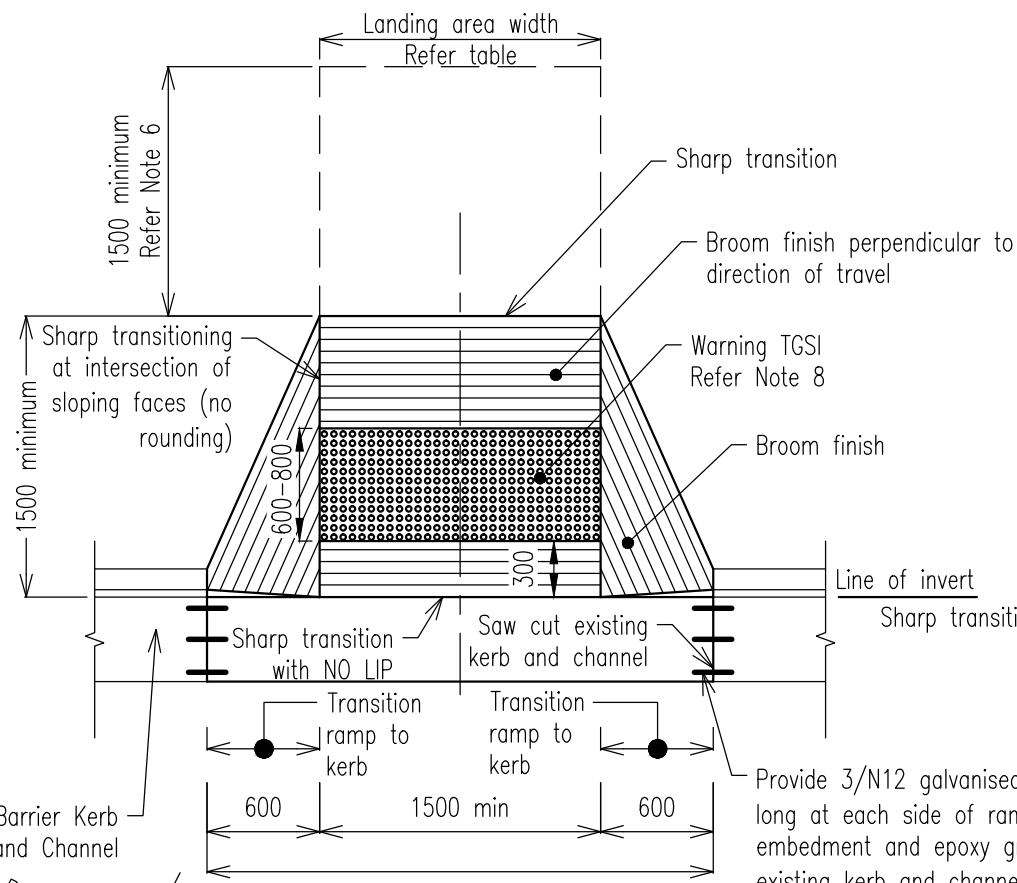
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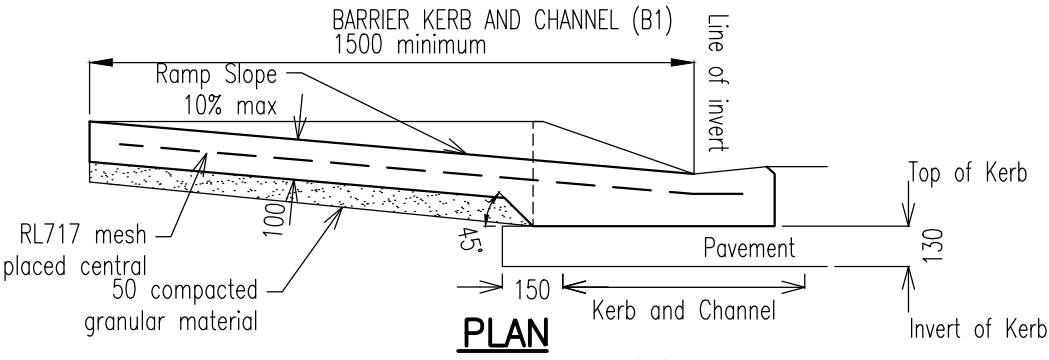
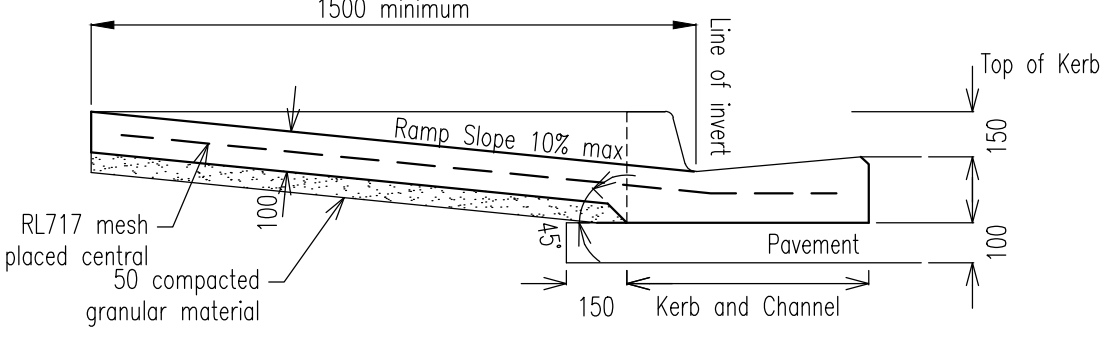
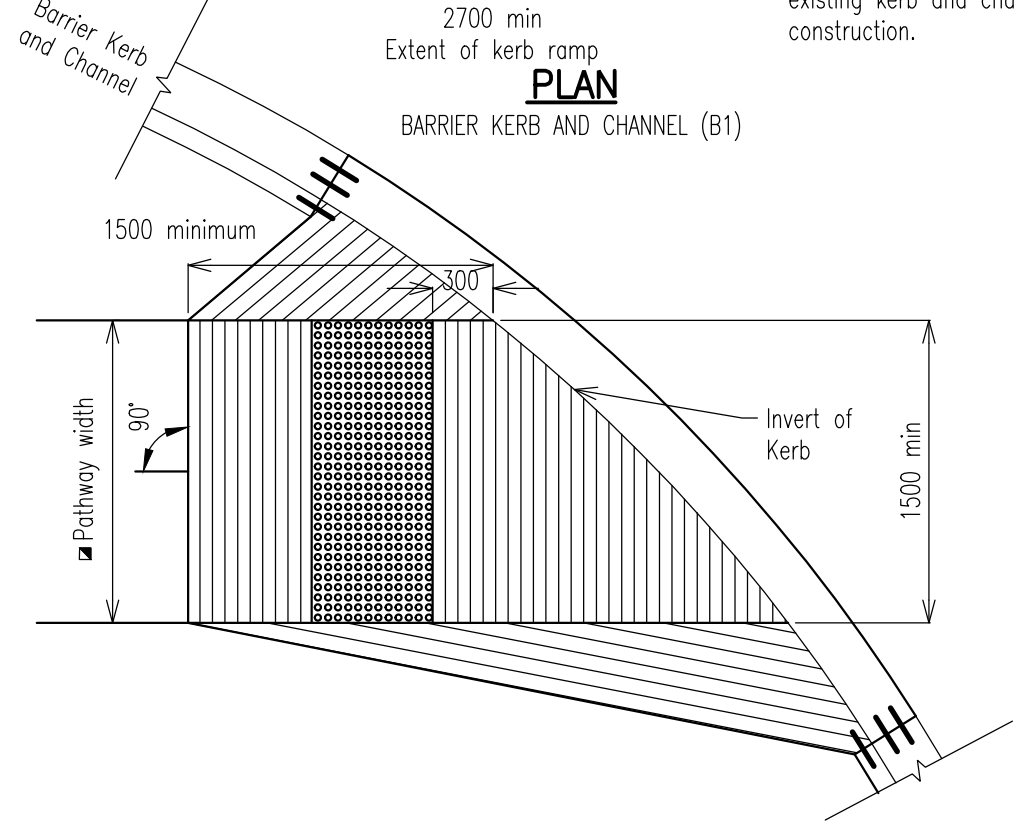
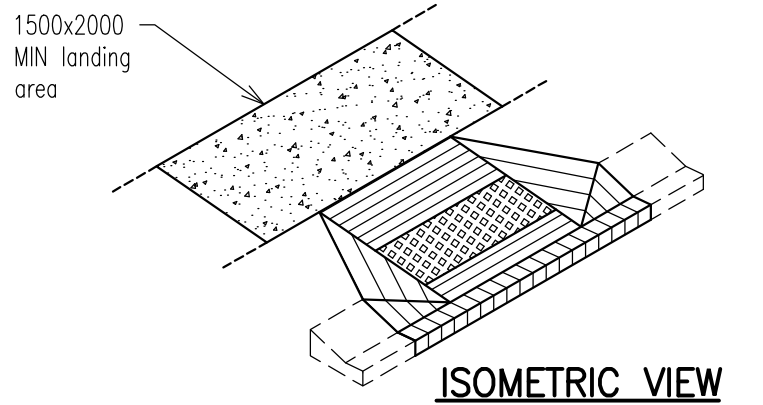
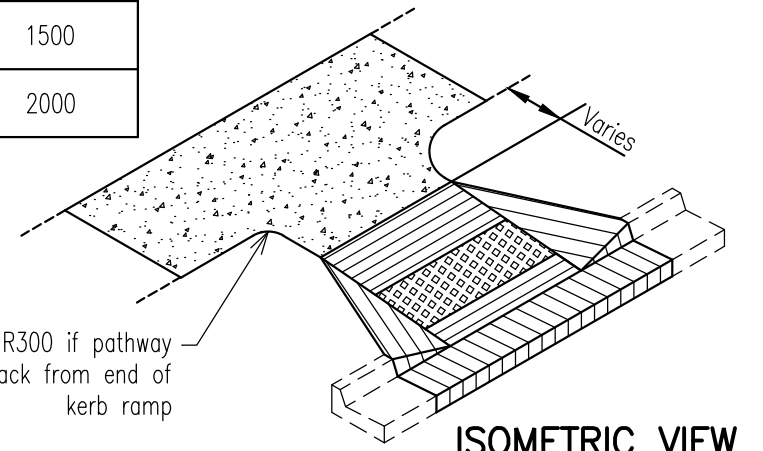
**KERB AND CHANNEL
DRAINAGE CONNECTIONS**

**ROAD/STREET
Standard
Drawing
R-0081**

A	B	C	
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LANDING AREA	
PEDESTRIAN DIRECTION	LANDING WIDTH
↕ ↔ ↕	1500
↔ ↕ ↔	2000



- NOTES:**
- All dimensions are in millimetres unless noted otherwise.
 - Concrete shall be Grade N25 (25 MPa) minimum.
 - Kerb Ramp to be cast monolithically, no construction joints will be allowed.
 - the ramp and sloping sides should be slip resistant.
 - Kerb Ramp should be aligned in the direction of travel.
 - Ramp End Clearance – There shall be a minimum wheelchair turnaround distance of 1500mm beyond the end of the ramp and be free of any obstruction. Size according to the direction of pedestrians or adjacent pathway in accordance with AS 1428.1:2009.
 - Kerb Ramp slope for wheelchair access shall not be steeper than 10%, to provide ease of access for wheelchair users.
 - Tactile Ground Surface indicators (TGSi) shall be in accordance with AS 1428.4.1:2009 Design for Access and Mobility – Tactile Indicators.
 - For kerb ramp locations and set out refer to Project/ subdivision drawings

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C GENERAL UPDATES AND STANDARD REFERENCING AMENDMENTS	24/5/16
B MAJOR UPDATES	27/2/12
A ORIGINAL ISSUE	1/3/97



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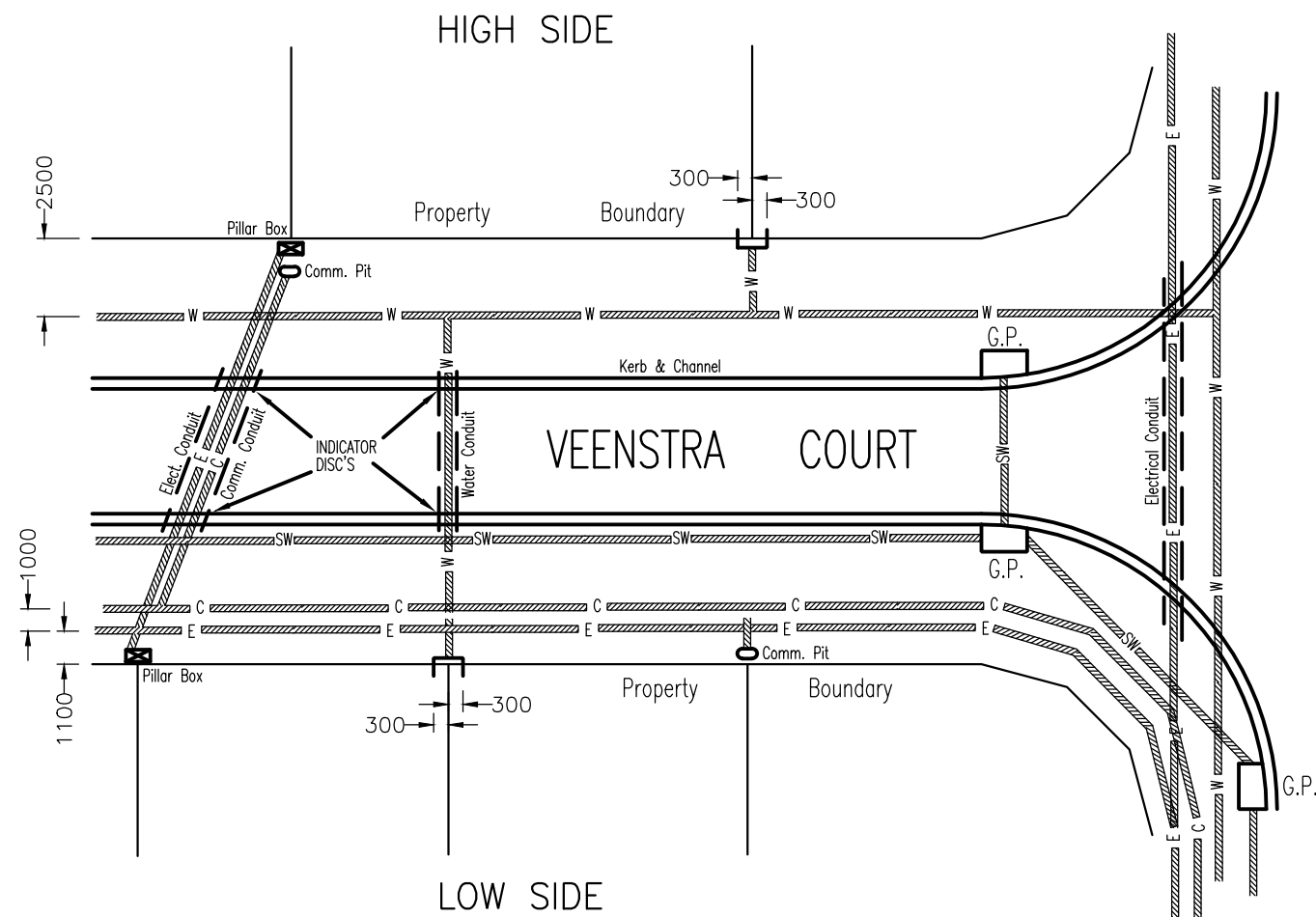
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KERB RAMP

**ROAD/STREET
Standard
Drawing
R-0084**

A	B	C
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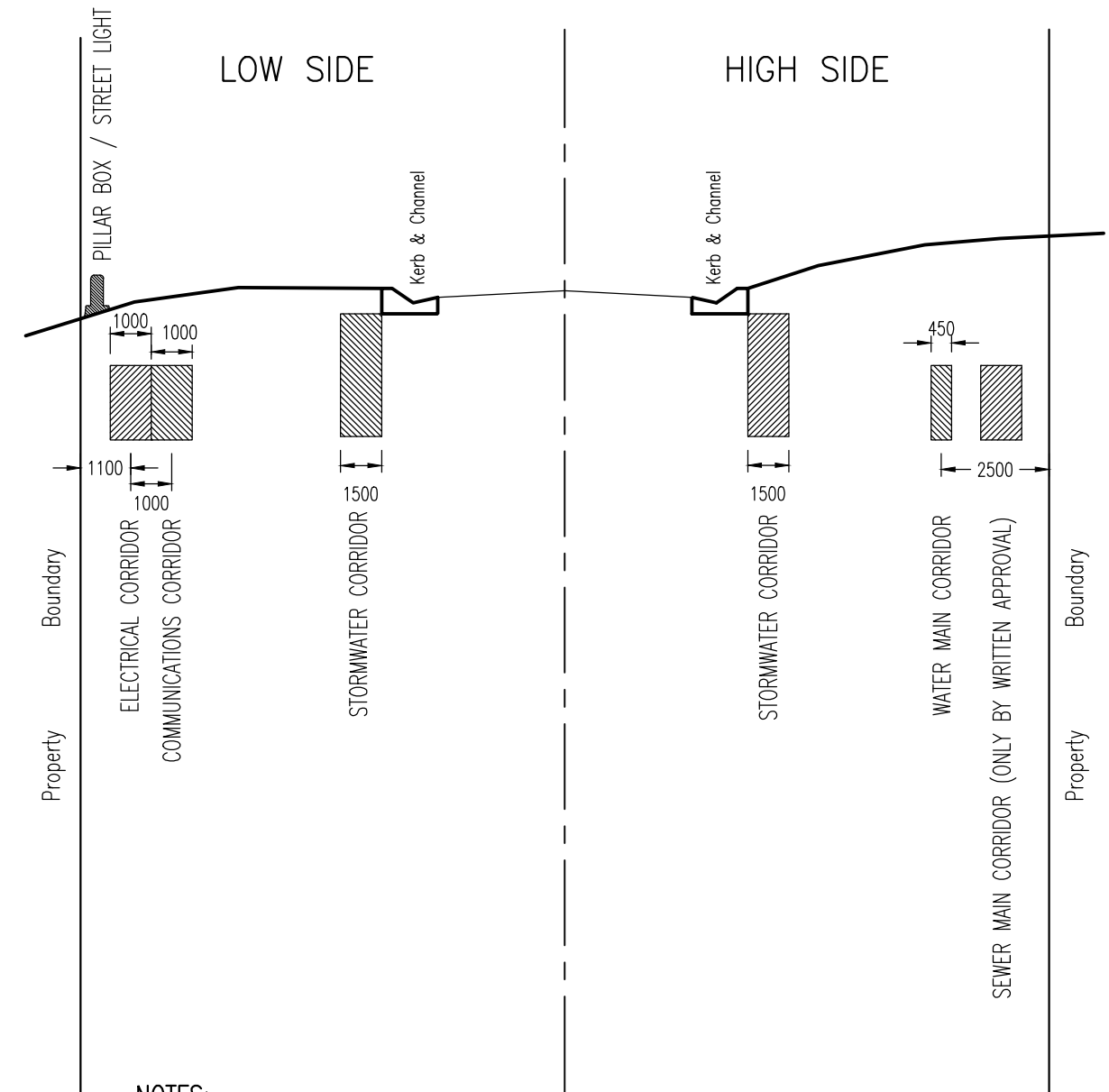
TYPICAL SERVICE CORRIDOR



LEGEND

Road crossing conduits	— — — —
Water -	W
Stormwater -	SW
Communications -	C
Electricity -	E

TYPICAL CONDUIT SECTION



NOTES:

1. The alignment and depths of existing services shall be proven on site by consultation with the relevant service authorities prior to any excavation and shall not be inferred from this drawing.
2. Various configurations of trench width and conduit numbers/diameters exist for both electricity and common trench arrangements with communication companies.
3. For split level roads, service corridors to be determined by council prior to completion of engineering design.
4. All dimensions in millimetres

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PUBLIC UTILITIES IN SUBDIVISIONS TYPICAL SERVICE CORRIDORS AND SECTIONS

ROAD/STREET
Standard
Drawing
R-0100

A	B		
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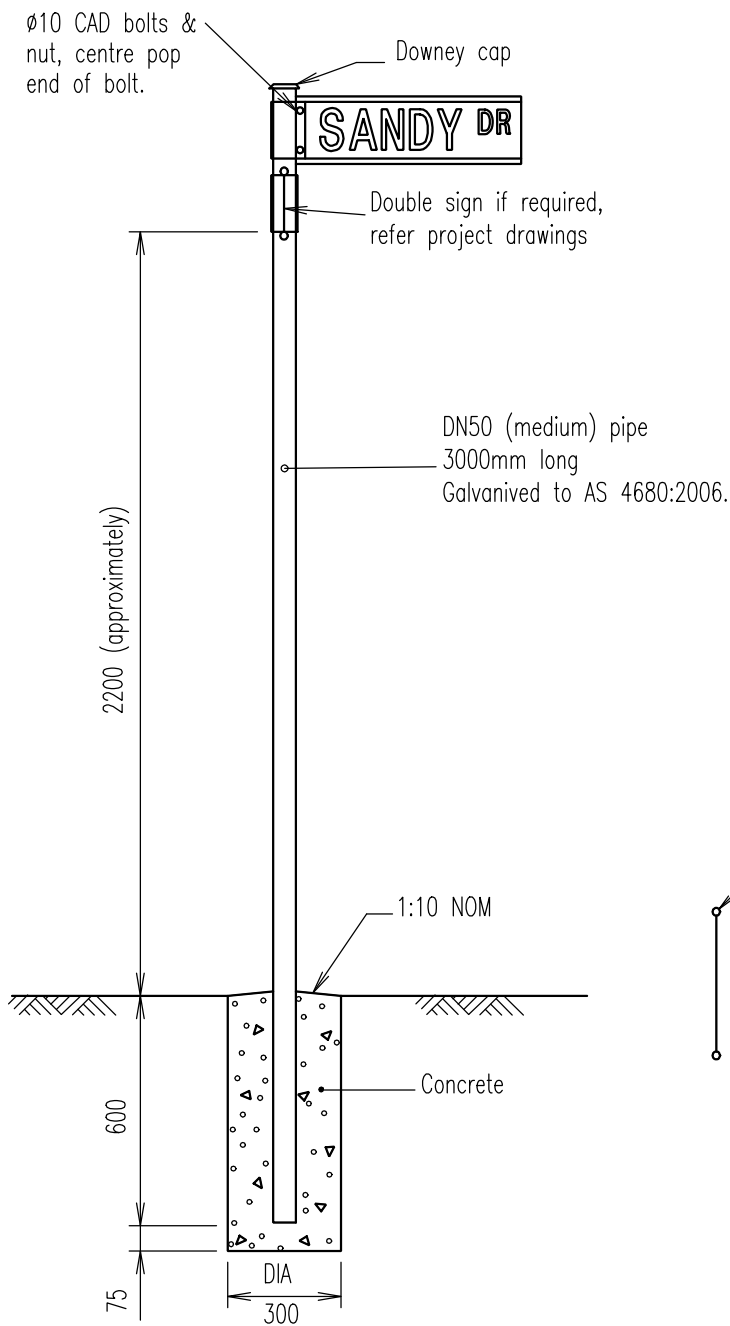
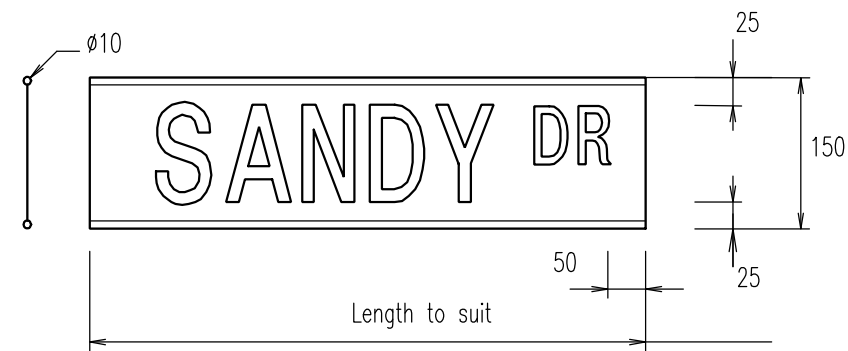


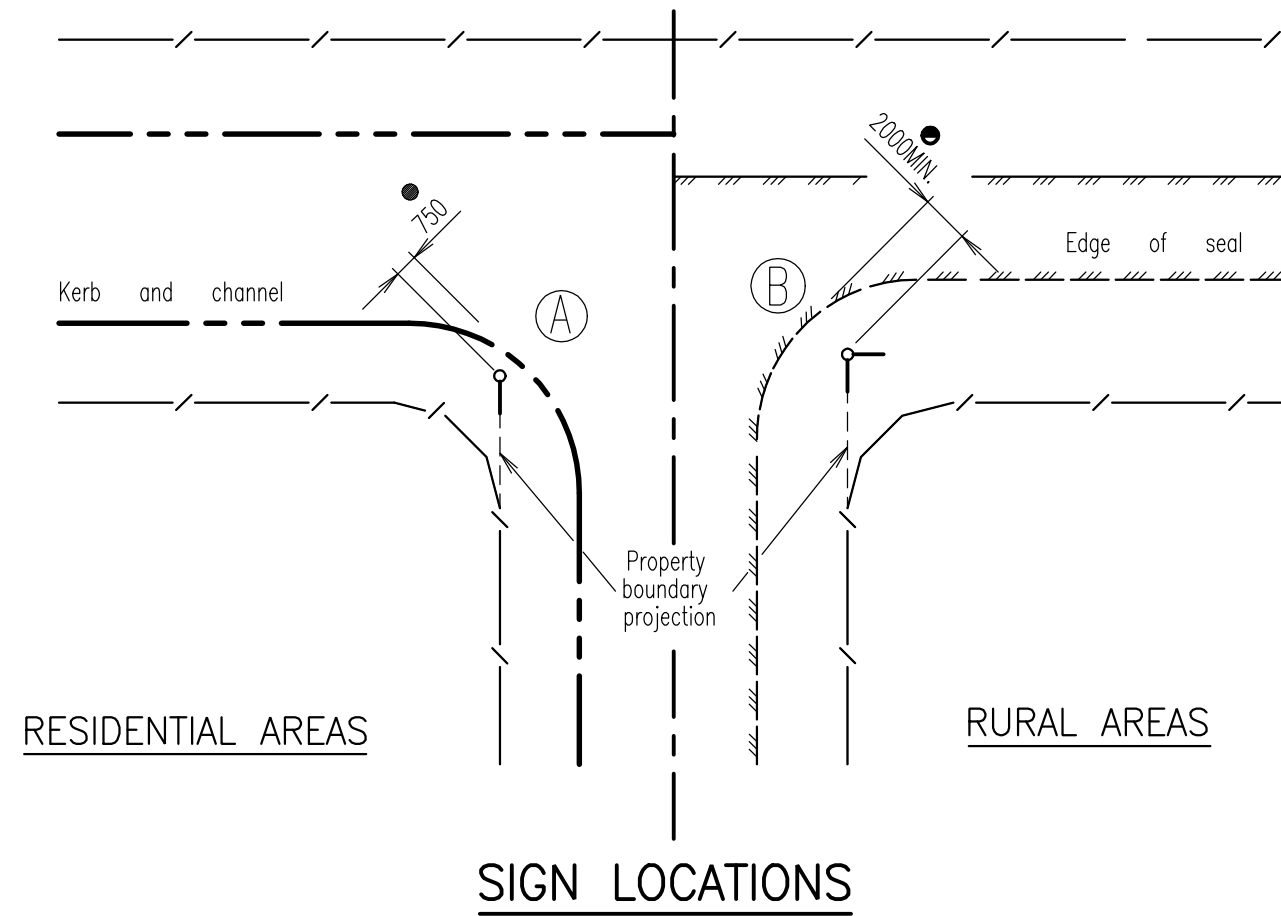
Table of Abbreviations	
Avenue	AV
Court	CT
Crescent	CR
Drive	DR
Esplanade	ESP
Lane	LA
Parade	PDE
Road	RD
Street	ST
Terrace	TCE

Other abbreviations to be approved by Superintendent.



LEGEND

- Sign post is to be located 750mm behind nominal kerb line.
- Sign post is to be located 2000mm MIN. – 4000mm MAX. from edge of seal, or as directed by the Superintendent.



NOTES:

1. Street names must be approved by Council.
2. Name plates: 150mm wide and 3mm thick extruded aluminium or polypropylene section.
3. Bracket: Standard 150mm wide and 3mm thick aluminium extruded bracket (including 2 x Ø6 CAD bolts & nuts). CAD bolts and nuts to AS 1897.
4. Background color "Freeway Green" Class 2 Reflectorisred (both sides) Name Letters: "White" 100mm high, Series B, Class 2 Reflectorisred Location Letters: "White" 60mm high, Series B, Class 2 Reflectorisred
5. All signs are to be approved by the Superintendent prior to erection.
6. Signs to be positioned on the side of street/road that provides best visibility.
7. Concrete N20 in accordance with AS 1379:2007 and AS 3600:2009.
8. All dimensions in millimetres.

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C GENERAL UPDATES AND STANDARD REFERENCING AMENDMENTS	24/5/16
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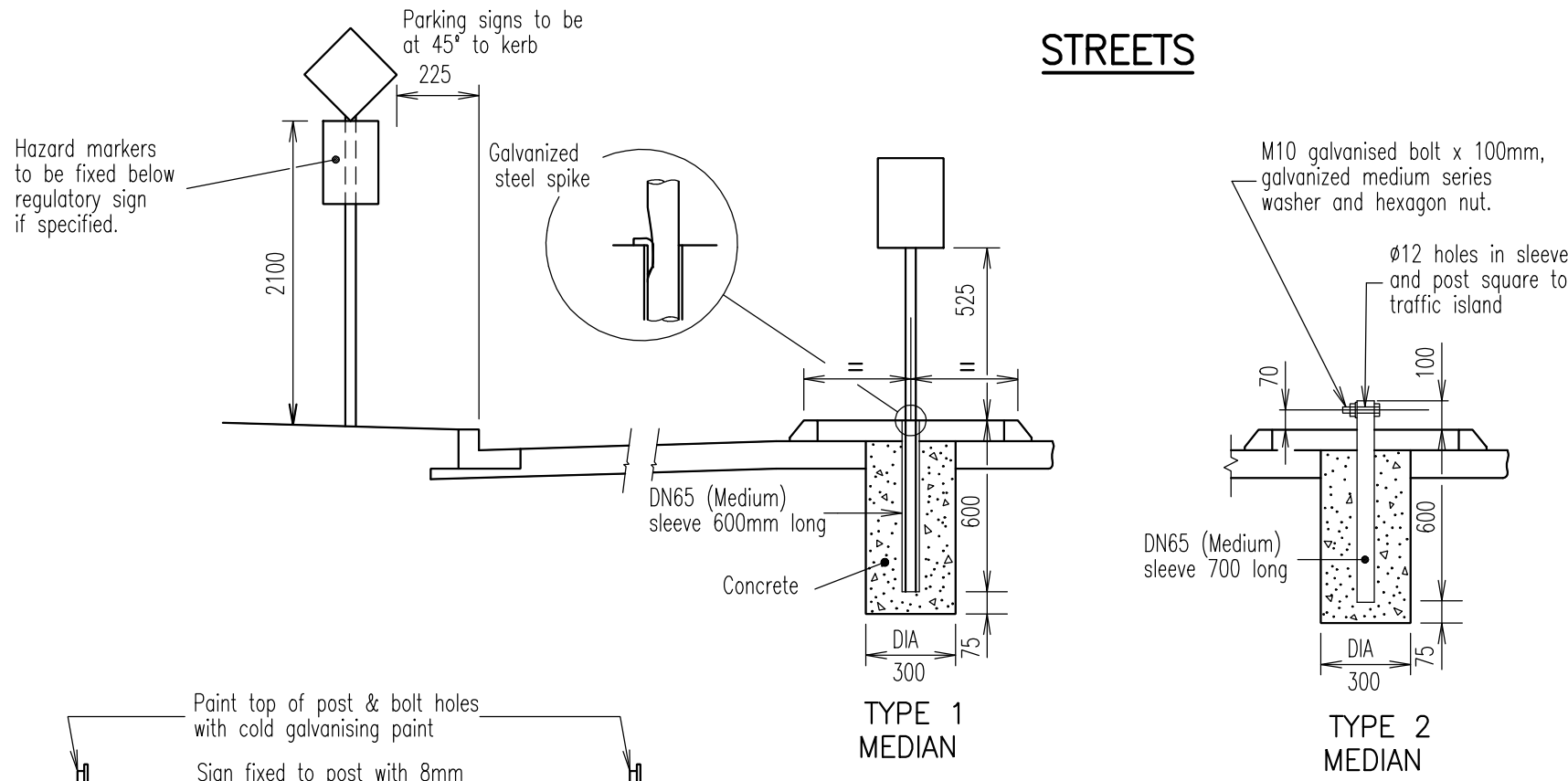
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STREET NAME SIGN

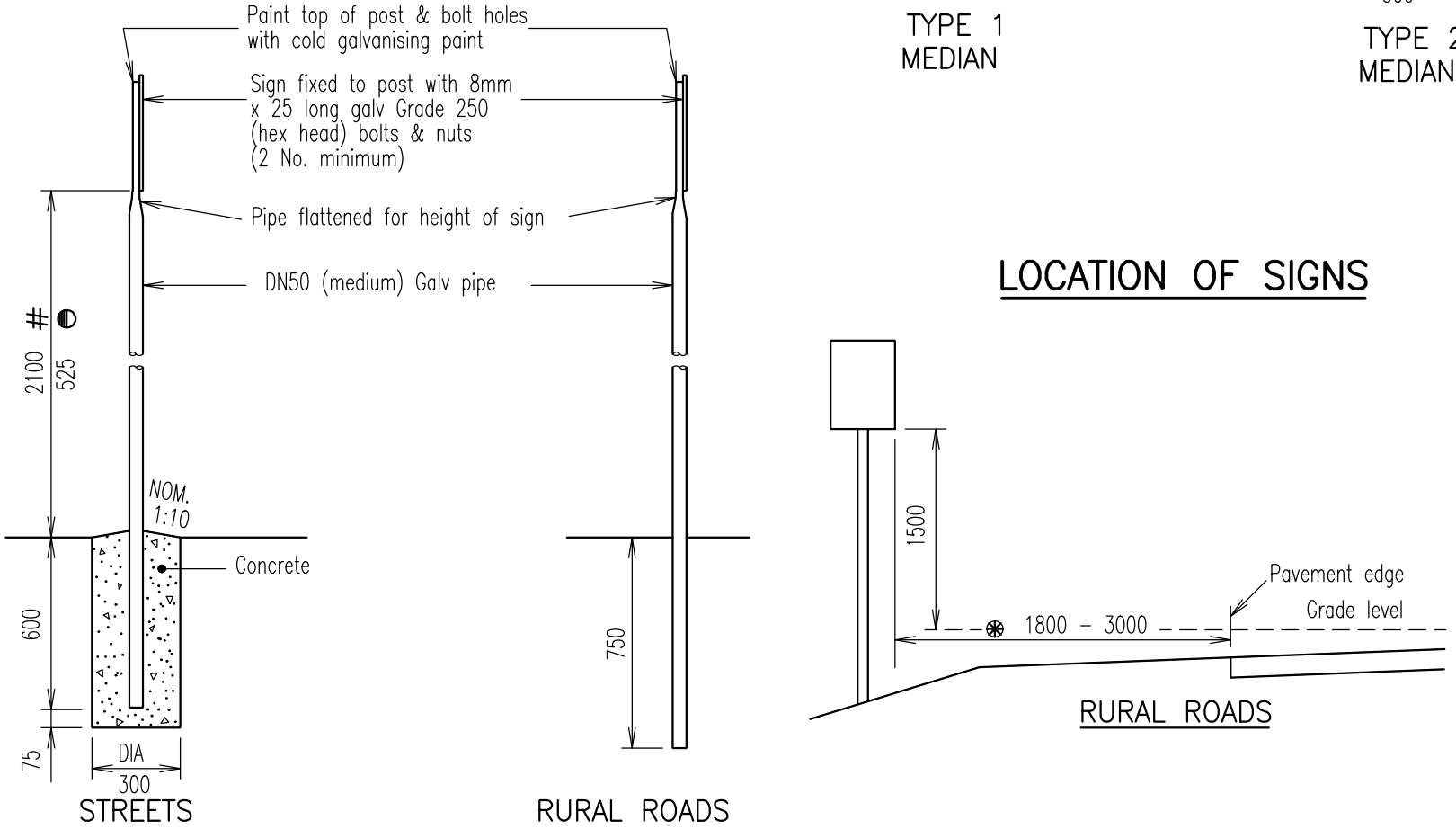
**ROAD/STREET
Standard
Drawing
R-0130**

A	B	C	
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STREETS



LOCATION OF SIGNS



NOTES:

1. All signage to be fabricated and installed as per M.U.T.C.D unless noted otherwise
2. All signs are to be approved by the Superintendent prior to erection.
3. Where signs are to be erected in streets where footpaths are not constructed to permanent levels the Rural Roads type base shall be adopted.
4. The DN65 sleeve and spike shall only be used on medians.
5. All pipes to be galvanized. Steel pipe to AS 1074:1989. Galvanising to AS/NZS 4680:2006.
6. Concrete N20 in accordance with AS 1379:2007 and AS 3600:2009.
7. Hexagonal head bolts to AS 1111.1:2015
Nuts to AS 1112.1:2015
Washers to AS 1237.1:2002
Galvanizing to AS/NZS 1214:2016
8. All dimensions in millimetres.

LEGEND

- Series A, medium spacing
- Series A, medium spacing where space is available, if not adopt narrow spacing
- # on footpaths
- ⊗ As directed by the Superintendent
- on medians

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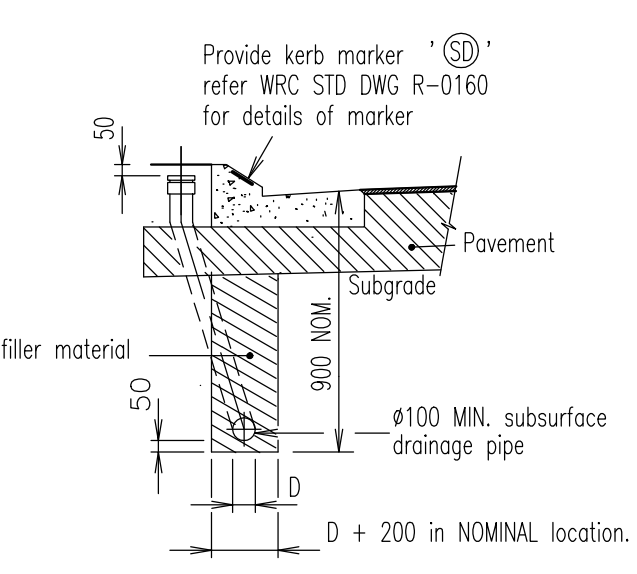
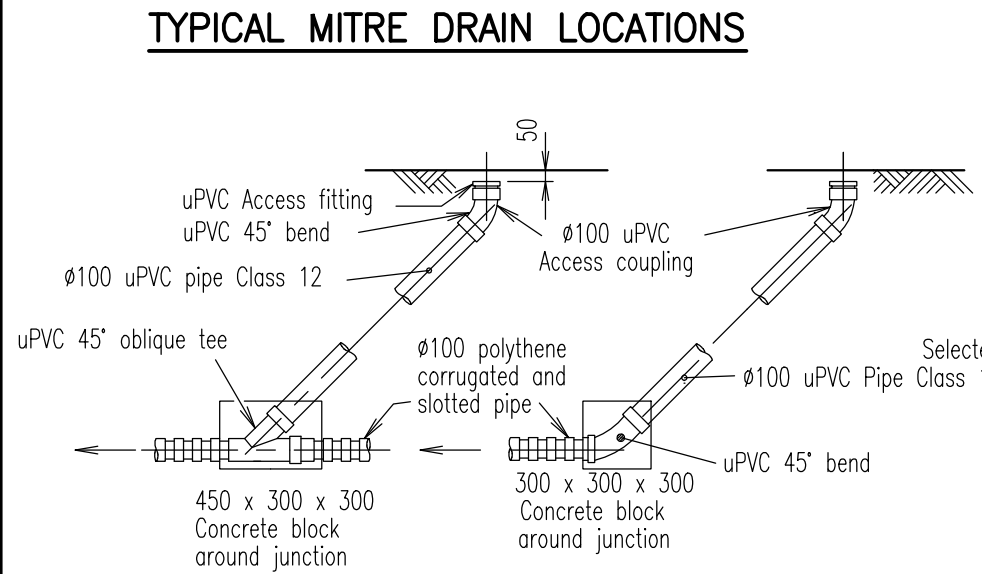
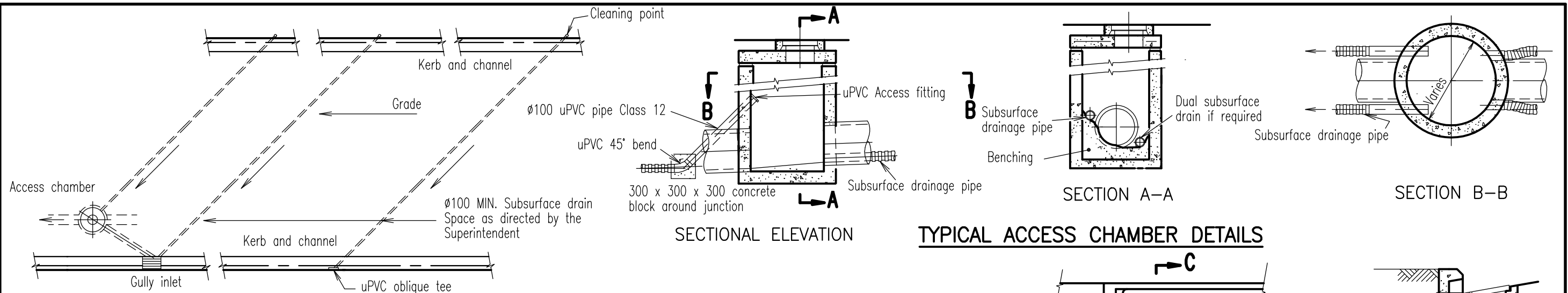
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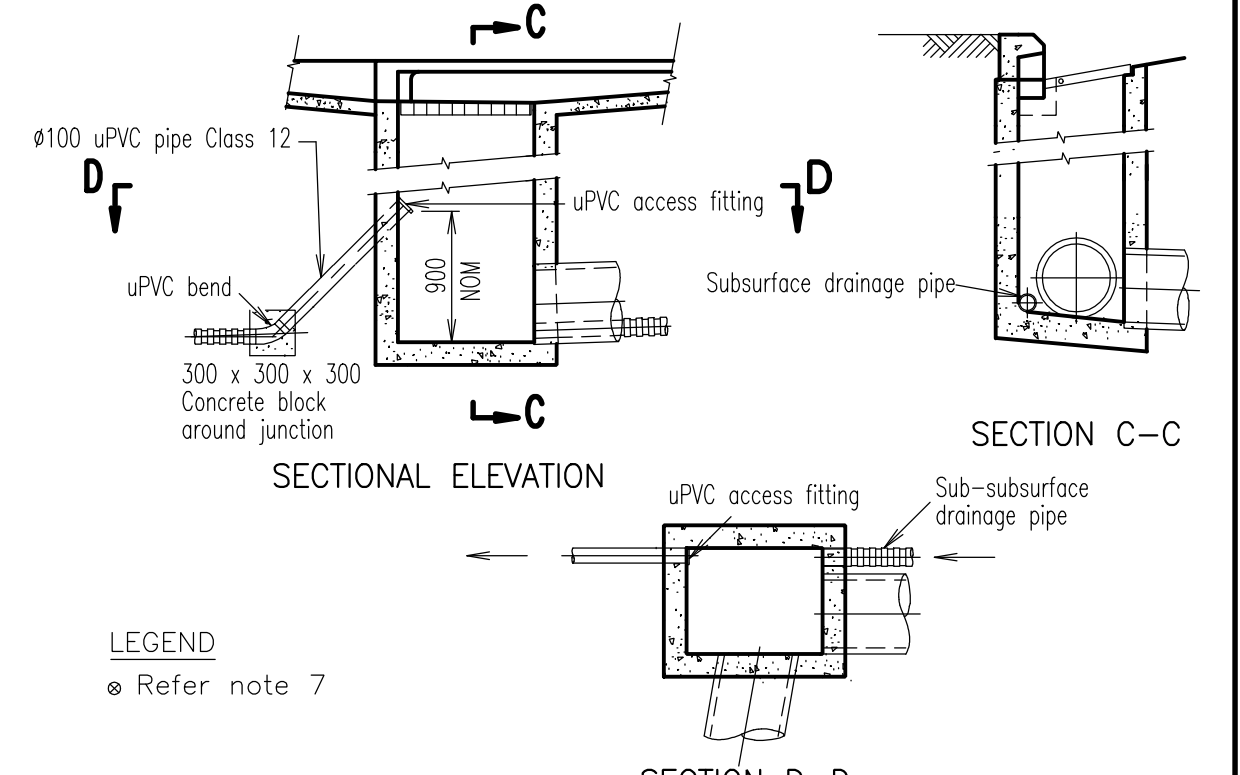
TRAFFIC CONTROL DEVICES

ROAD/STREET
Standard
Drawing
R-0131

A	B	C
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TYPICAL ACCESS CHAMBER DETAILS



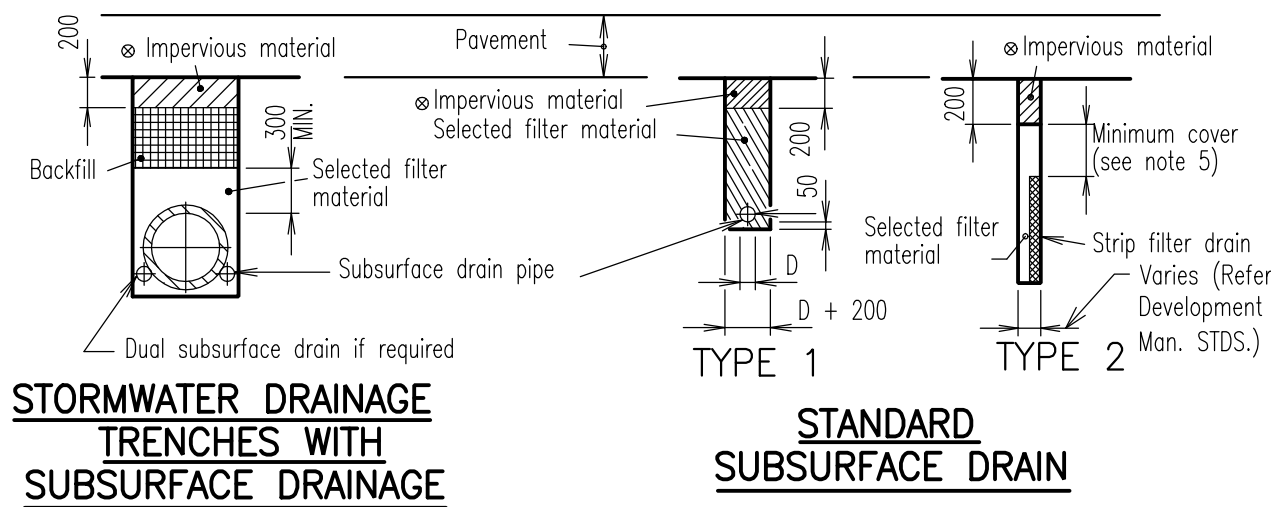
LEGEND
 ⊗ Refer note 7

SUBSURFACE DRAIN CLEANING POINTS

SUBSURFACE PAVEMENT DRAIN

RECOMMENDED FILTER MATERIAL

10mm-14mm AGGREGATE FILTER MATERIAL
 ENSURE POSITIVE GRADE TO DAYLIGHT



NOTES:

- All Subsurface drains, polyethylene corrugated slotted pipe to AS 2439.1:2007, discharge at inlet pipe invert level unless detailed otherwise. 0.5% MIN grade.
- Filter materials not complying with the specified grading requirements may be used when approved by the Superintendent. A geofabric may be used to line trenches where approved by the Superintendent.
- Concrete anchors N20 in accordance with AS 1379:2007 and AS 3600:2009.
- At 'oblique tee' on subsurface drain cleaning points, the contractor may install Vinindex vertical fittings if approved by the Superintendent.
- Minimum cover over subsurface drain pipe for various compactors unless approved otherwise: Hand held units - 100, Units < 15 tonnes - 200, Units > 15 tonnes - 300
- 'D' = 100 NOM. unless otherwise specified.
- Impervious material to be provided where subsurface drainage is not under a pavement. When impervious material is omitted the backfill / selected filter material shall extend to underside of pavement.
- All dimensions in millimetres.

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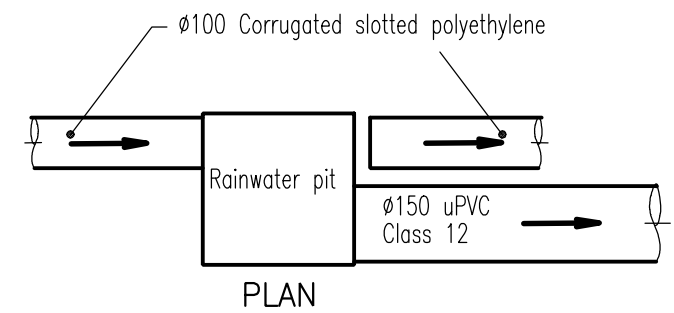
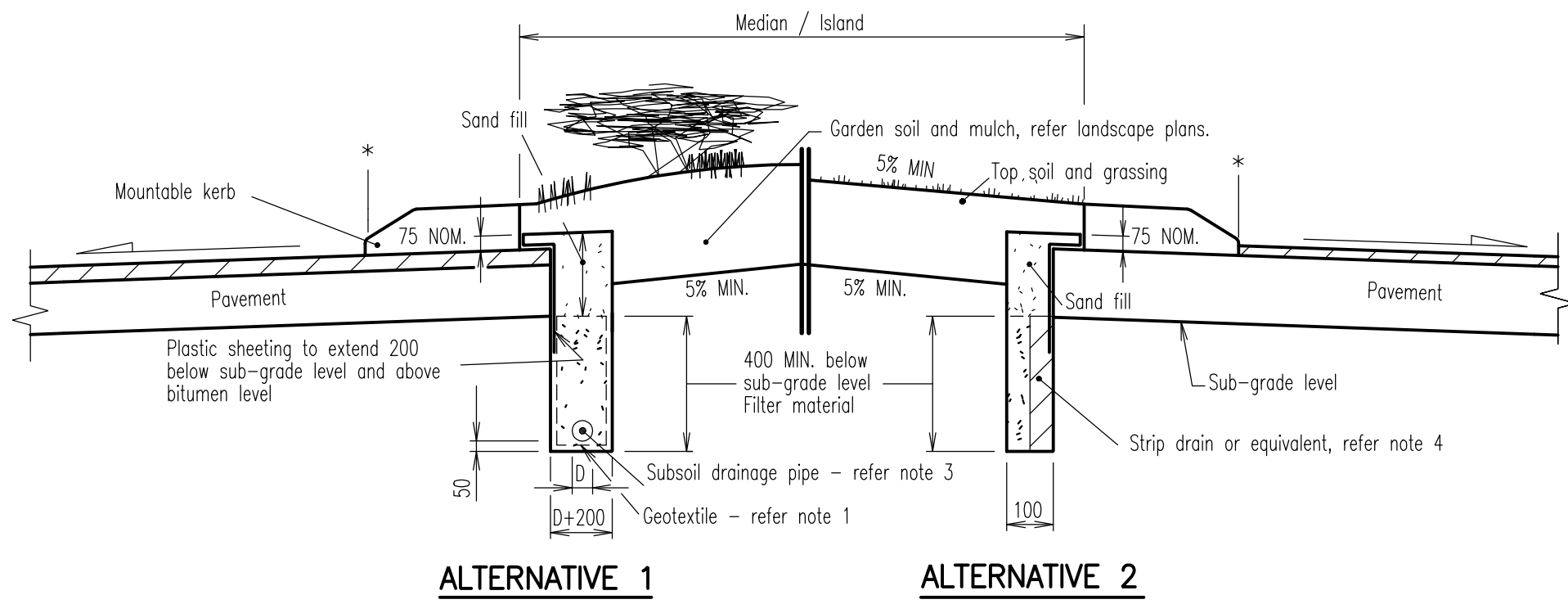
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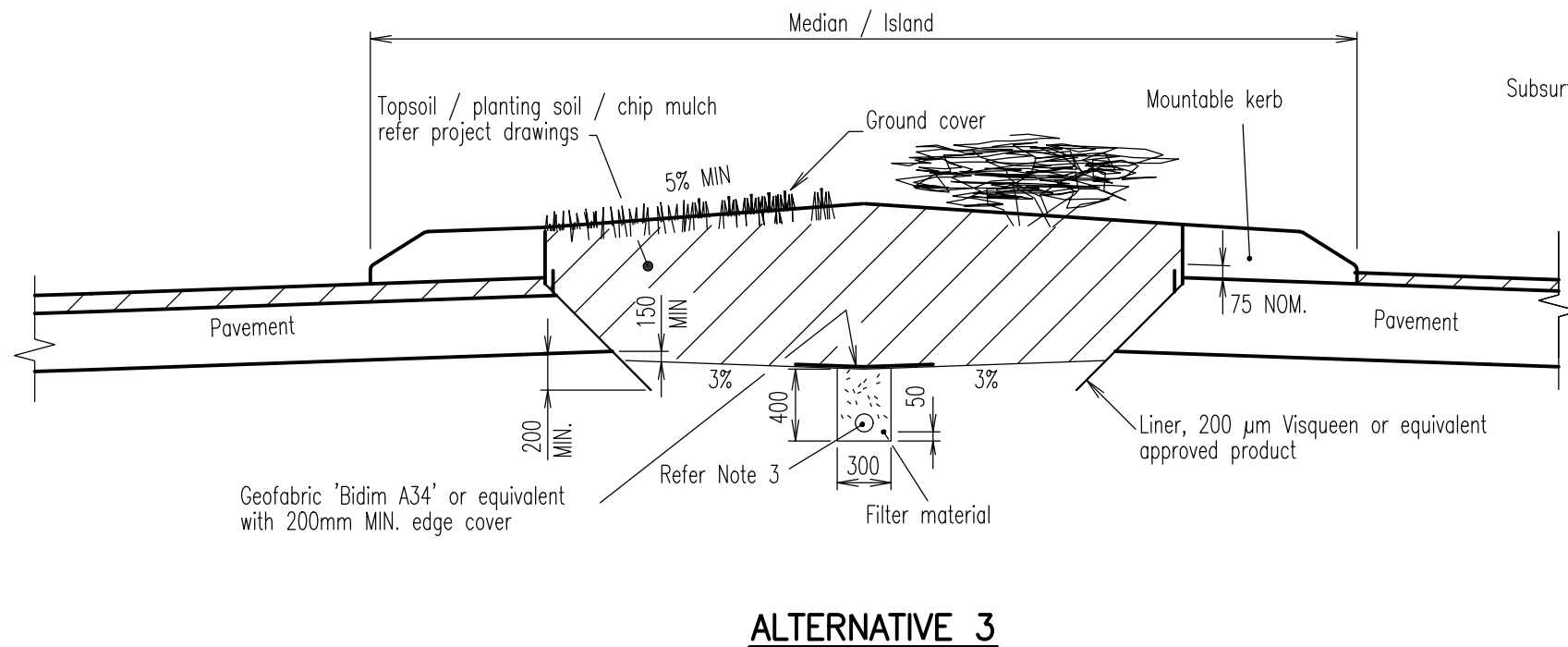
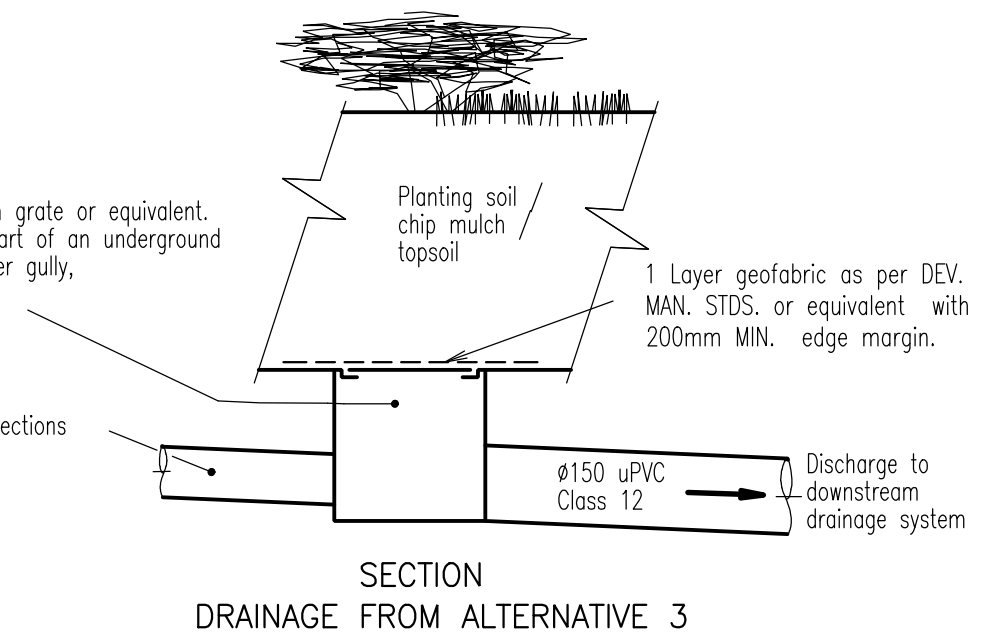
SUBSURFACE DRAINAGE

**ROAD/STREET
 Standard
 Drawing
 R-0140**

A	B	C		
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Median Drainage Only :
 Polypropylene rainwater pit and aluminium grate or equivalent.
 Where median / island drainage forms part of an underground drainage system, construct an anti-ponder gully, refer WRC STD DWG D-0068.



LEGEND

* NOMINAL kerb line

NOTES:

1. Geotextile surround, propriety product, U.V. stabilised, non-woven type, flow rate > 50 l/m²/sec, G > 1300 and E.O.S. < 200 µm.
2. Filter material - 75 µm - 9.5 mm. Refer grading requirements on Standard Drawing R-0140.
3. ø100 Subsoil drainage pipe - corrugated slotted polyethylene, connect to drainage system. 0.5% MIN. grade.
4. Strip drain - propriety product, deep-fin plastic core, 120 KPa MIN. crush strength, 40mm MIN. thickness, fully enclosed by a non-woven geotextile. 0.5% MIN. grade.
5. All dimensions in millimetres.

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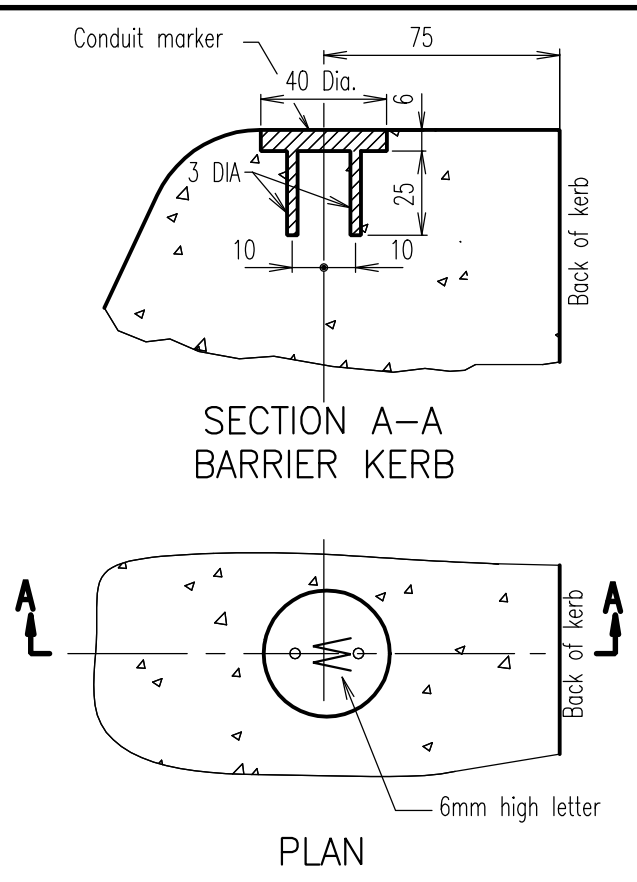
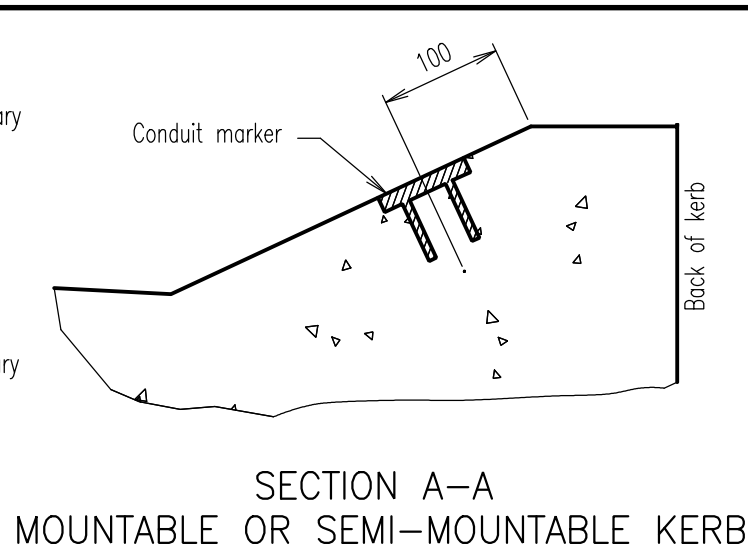
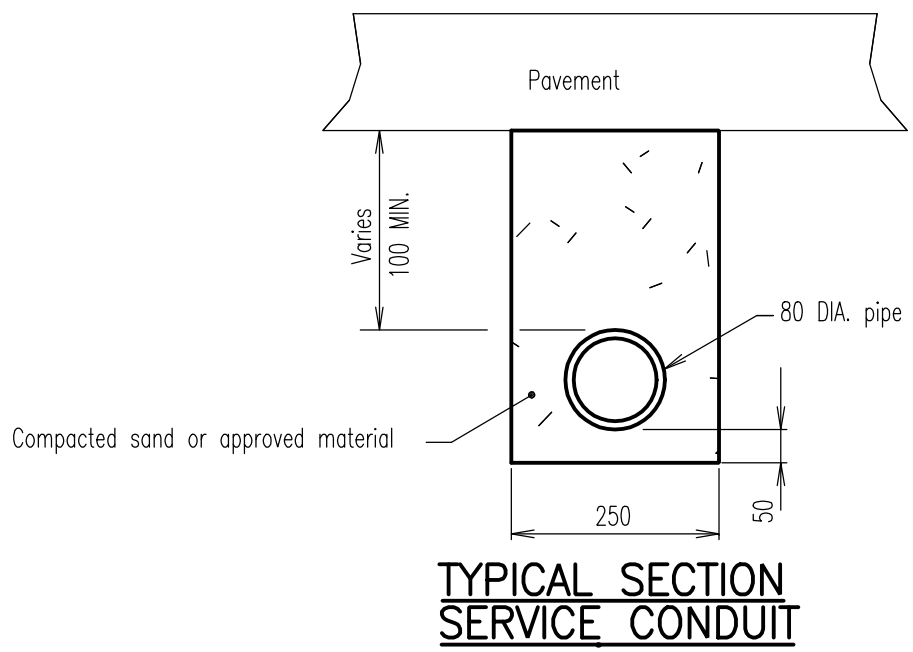
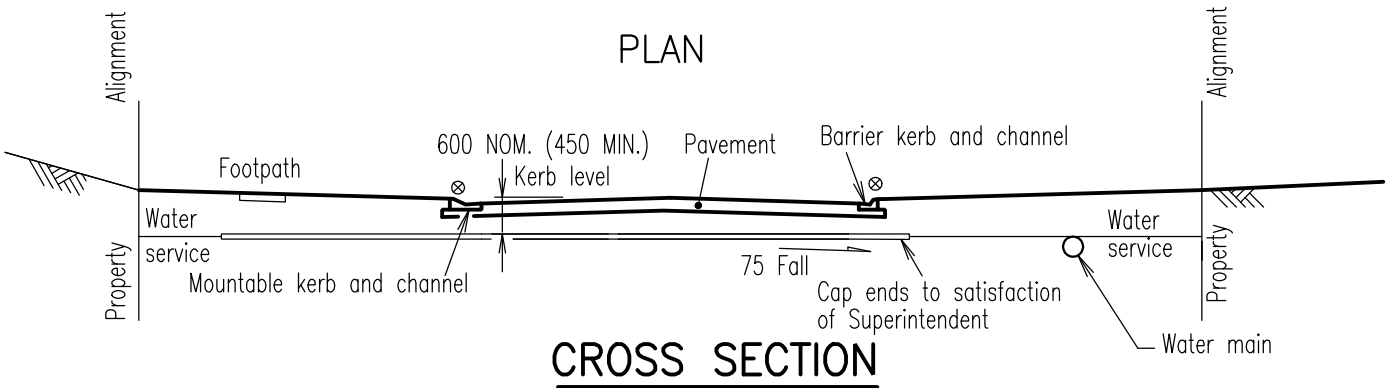
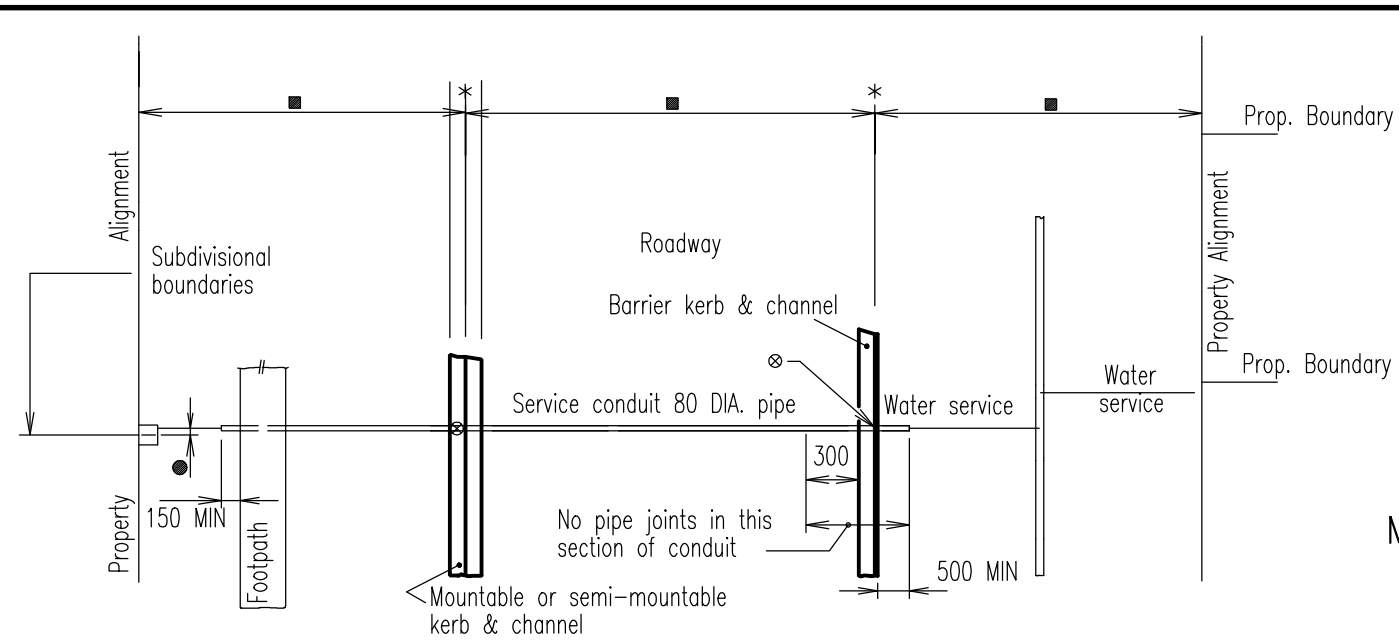
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SUBSOIL DRAINAGE DETAILS AT MEDIANS / ISLANDS

ROAD/STREET Standard Drawing R-0141

A B C



BRASS SERVICE CONDUIT MARKER

LEGEND

- * NOM kerb line
- ⊗ Service conduit marker
- Refer project drawings.
- Service conduit to be offset 0.6 metre on low side from subdivisional boundary.
- SC ——— Service conduits (on project drawings).

NOTES:

1. Trimming and compaction of the subgrade to be completed and approved before excavation for service conduits is commenced. Excavated material shall be thrown on the footpath and not on the subgrade.
2. Service conduits alternatives :- 100 DIA concrete/FR pipes (S.F.) Class C or S (R.R.J.)
100 DIA uPVC, Class 12.
3. Positions of the service conduits shown are typical only. Conduits to be located as shown on project drawings.
4. Where concrete footpaths/cyclepaths exist or are planned, the service conduit is to extend past the far side of the path.
5. Marker details may be varied if approved.
6. Refer WRC STD DWG R-0100 and R-0101 for utilities layout plan and sections.
7. All dimensions in millimetres.

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WATER SERVICE CONDUITS

ROAD/STREET
Standard
Drawing
R-0160

A	B		
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