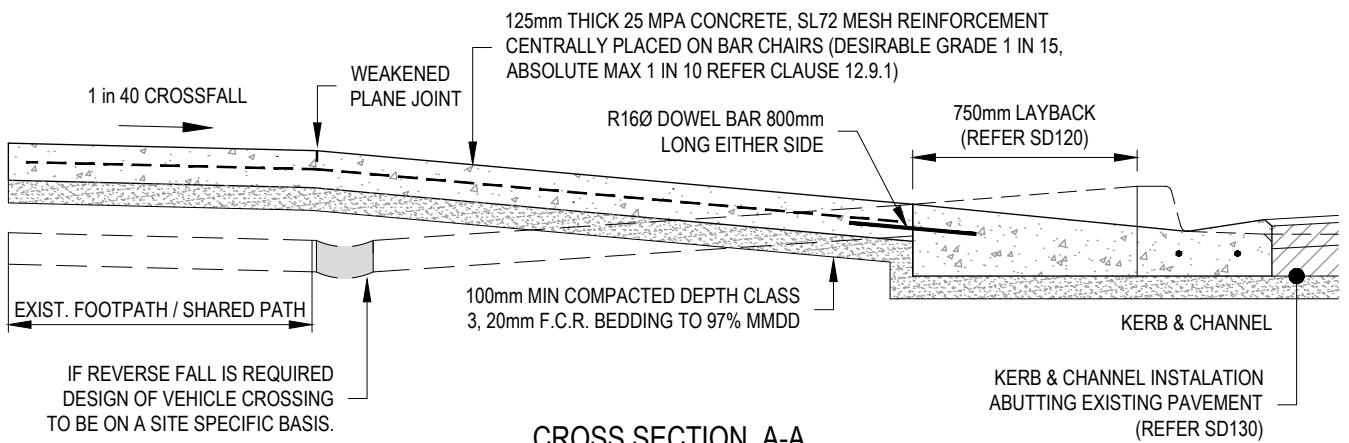


PLAN





CROSS SECTION A-A

NOTES:

1. CROSS REFERENCES:
INDUSTRIAL CROSSINGS - SD236 / SD250
RURAL CROSSINGS - SD255 / SD260
IDM - SECTION 12.9.1. AND 12.9.2.
2. THIS DRAWING DETAILS DIMENSIONS FOR STANDARD RESIDENTIAL CROSSINGS ONLY.
3. CROSSING WIDTHS EXCEEDING THE MAXIMUM ALLOWABLE WILL REQUIRE APPLICATION TO COUNCIL FOR SPECIAL CONSIDERATION.
4. JOINTS AND DOWEL BARS ARE REQUIRED ON EITHER SIDE OF THE CROSSING AT THE INTERFACE WITH THE FOOTPATH. PROVISION SHALL BE MADE IN EXISTING CONCRETE SECTIONS BY DRILLING HOLES TO A MINIMUM DEPTH OF 150mm AND INSERTING R16 DOWEL BARS.
5. AN APPROVED JOINT FILLER SHALL BE PLACED ON EITHER SIDE OF THE CROSSING AGAINST FOOTPATH SLABS. DOWEL BARS ARE TO HAVE AN APPROVED BOND BREAKER APPLIED TO THE END OF THE BAR INSERTED INTO THE EXISTING CONCRETE FOOTPATH SECTIONS REFER SD220.
6. ADDITIONAL WEAKENED PLANE JOINTS REQUIRED IF DISTANCE FROM BACK OF KERB TO FOOTPATH IS GREATER THAN 3000 AND SHALL BE PLACED AT THE MIDPOINT OF THE DISTANCE.
7. THE MAXIMUM NUMBER OF CROSSINGS, WHERE ANY CROSSING EXCEEDS 3.5 METRES WIDTH, SHALL BE ONE (1) CROSSING WITH THE MAXIMUM WIDTH OF THAT CROSSING TO BE 7.2 METRES. CROSSINGS TO ADJACENT PROPERTIES SHALL BE EITHER FULLY COMBINED, AND OF MAXIMUM WIDTH OF 7.2 METRES, OR ELSE HAVE A MINIMUM SEPARATION AS APPROVED BY COUNCIL.
8. FOOTPATHS OF 75mm THICKNESS ARE ACCEPTABLE ONLY WHERE THE LOTS ARE DEVELOPED ALREADY AND THE RISK OF SITE CONSTRUCTION DAMAGE IS NEGLIGIBLE. WHERE GREENFIELD SITES AND FUTURE HOUSING IS STILL TO BE DONE, THEN THE DEPTH OF THE FOOTPATH SHALL BE 125mm THROUGHOUT.

LEGEND:

- EXPANSION JOINT  EJ
- WEAKENED PLANE JOINTS  WPJ

ALL MEASUREMENTS IN MILLIMETRES

RETROFIT RESIDENTIAL VEHICLE CROSSING DETAIL

LAST UPDATED 26/02/2020

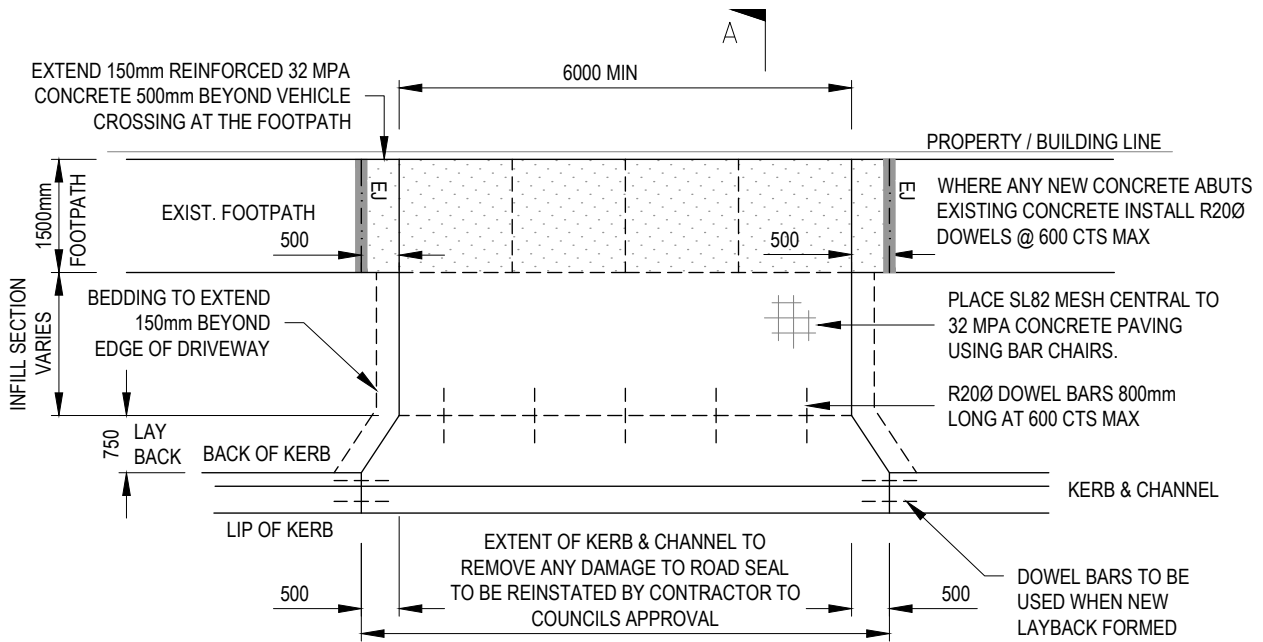
Infrastructure Design Manual Standard Drawings

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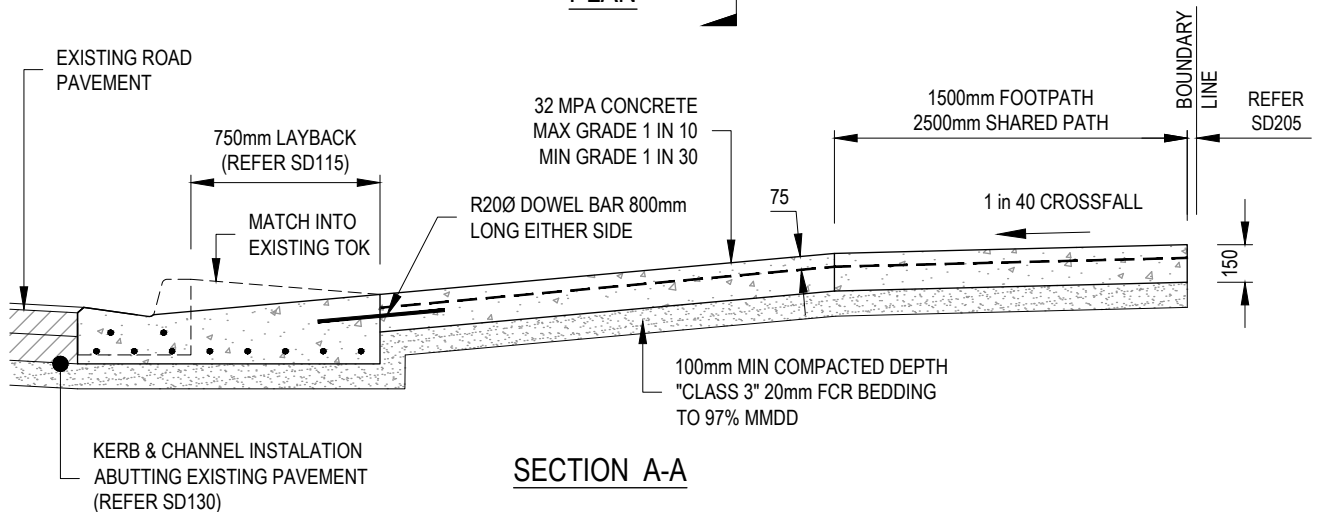


SD 235

NOT TO SCALE



PLAN



SECTION A-A

LEGEND:

- EXPANSION JOINT
- WEAKENED PLANE JOINTS

NOTES:

1. CROSS REFERENCES:
INDUSTRIAL CROSSINGS - SD115 / SD250
RURAL CROSSINGS - SD255 / SD260
IDM - SECTION 12.9.1. AND 12.9.2.
2. THIS DRAWING DETAILS DIMENSIONS FOR STANDARD RESIDENTIAL CROSSINGS ONLY.
3. CROSSING WIDTHS EXCEEDING THE MAXIMUM ALLOWABLE WILL REQUIRE APPLICATION TO COUNCIL FOR SPECIAL CONSIDERATION.
4. JOINTS AND DOWEL BARS ARE REQUIRED ON EITHER SIDE OF THE CROSSING AT THE INTERFACE WITH THE FOOTPATH. PROVISION SHALL BE MADE IN EXISTING CONCRETE SECTIONS BY DRILLING HOLES TO A MINIMUM DEPTH OF 150mm AND INSERTING R16 DOWEL BARS.
5. AN APPROVED JOINT FILLER SHALL BE PLACED ON EITHER SIDE OF THE CROSSING AGAINST FOOTPATH SLABS. DOWEL BARS ARE TO HAVE AN APPROVED BOND BREAKER APPLIED TO THE END OF THE BAR INSERTED INTO THE EXISTING CONCRETE FOOTPATH SECTIONS REFER SD220.
6. ADDITIONAL WEAKENED PLANE JOINTS REQUIRED IF DISTANCE FROM BACK OF KERB TO FOOTPATH IS GREATER THAN 3000 AND SHALL BE PLACED AT THE MIDPOINT OF THE DISTANCE.
7. FOOTPATHS AFFECTED BY NEW CROSSING TO BE REPLACED WITH NEW 150mm THICK (MIN.) REINFORCED 32 MPA CONCRETE AS STATED ON DETAIL.

ALL MEASUREMENTS IN MILLIMETRES

**RETROFIT INDUSTRIAL VEHICLE CROSSING
DETAIL**

LAST UPDATED 26/02/2020

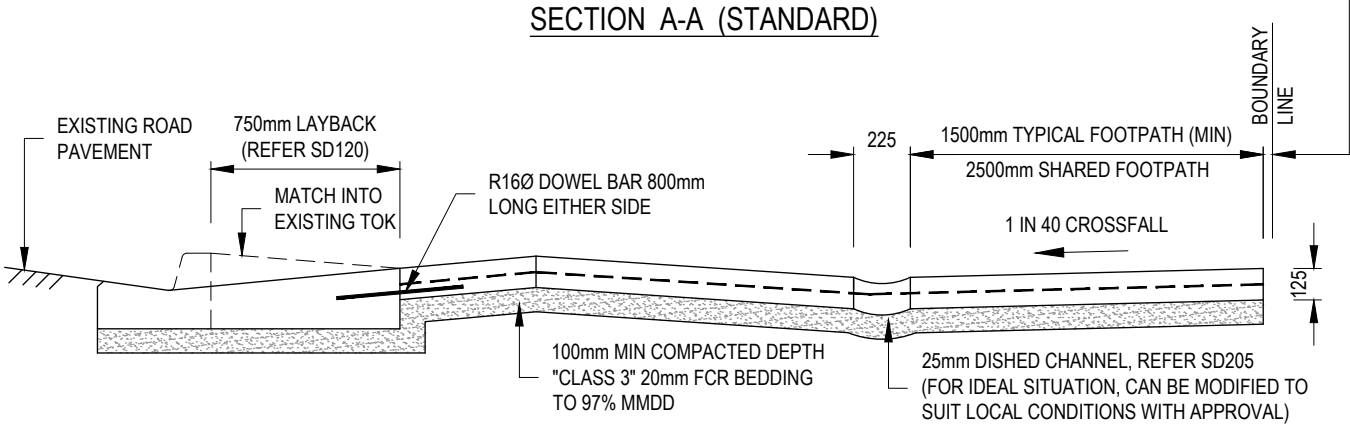
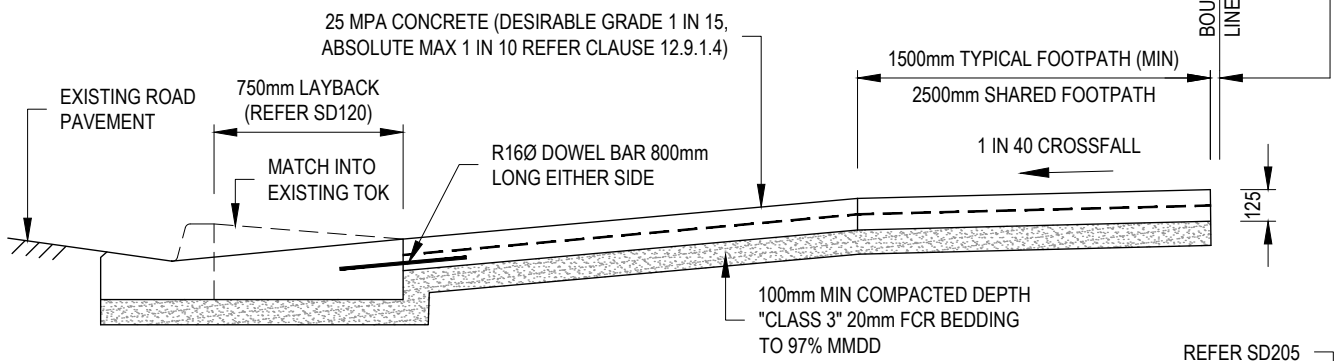
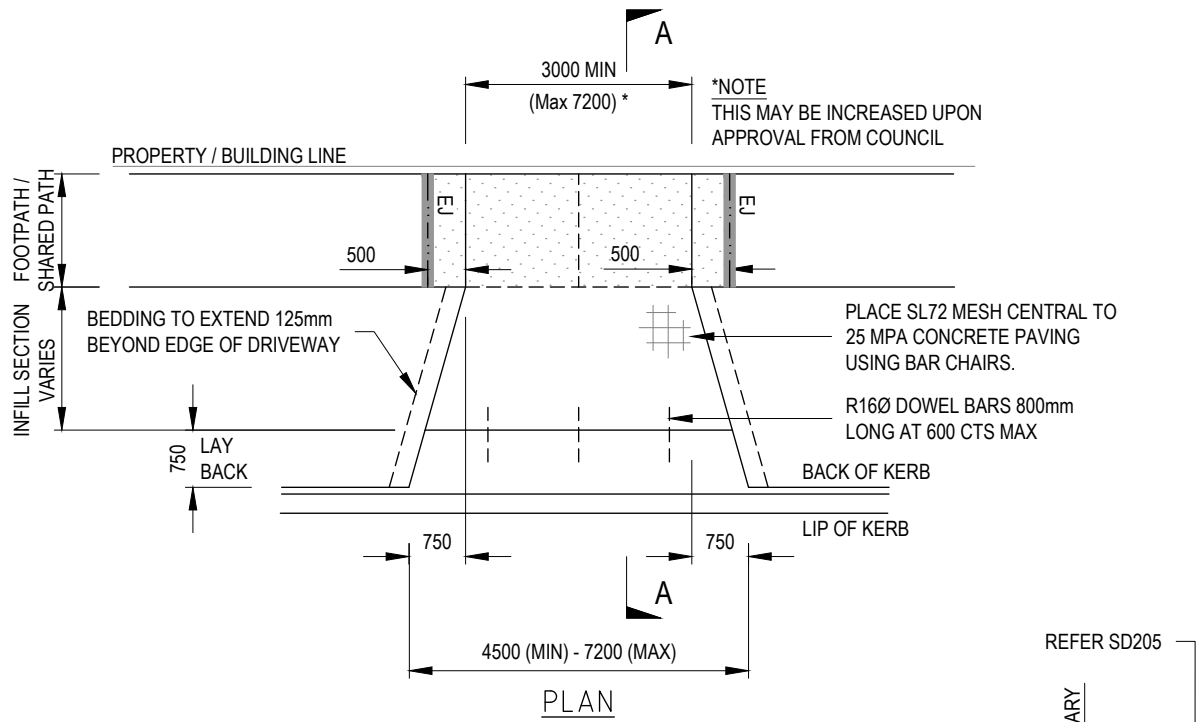
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SD 236

NOT TO SCALE



NOTE:

- FOR GRADES STEEPER THAN 1 IN 10 REFER CLAUSE 12.9.1.4. LAYBACK & CROSSOVER, TO BE CONSTRUCTED IN PLAIN CONCRETE ONLY (NO COLOURED CONCRETE BEYOND PROPERTY BOUNDARY)
- T.O.K. DENOTES TOP OF KERB
- FOR STEEP TERRAIN CONTACT THE COUNCIL FOR GUIDANCE.
- REFER SD235 FOR DETAILS TO RETROFIT VEHICLE CROSSING INTO EXISTING.

LEGEND:

- EXPANSION JOINT
- WEAKENED PLANE JOINTS

ALL MEASUREMENTS IN MILLIMETRES

NEW RESIDENTIAL SINGLE VEHICLE CROSSING DETAIL

LAST UPDATED 26/02/2020

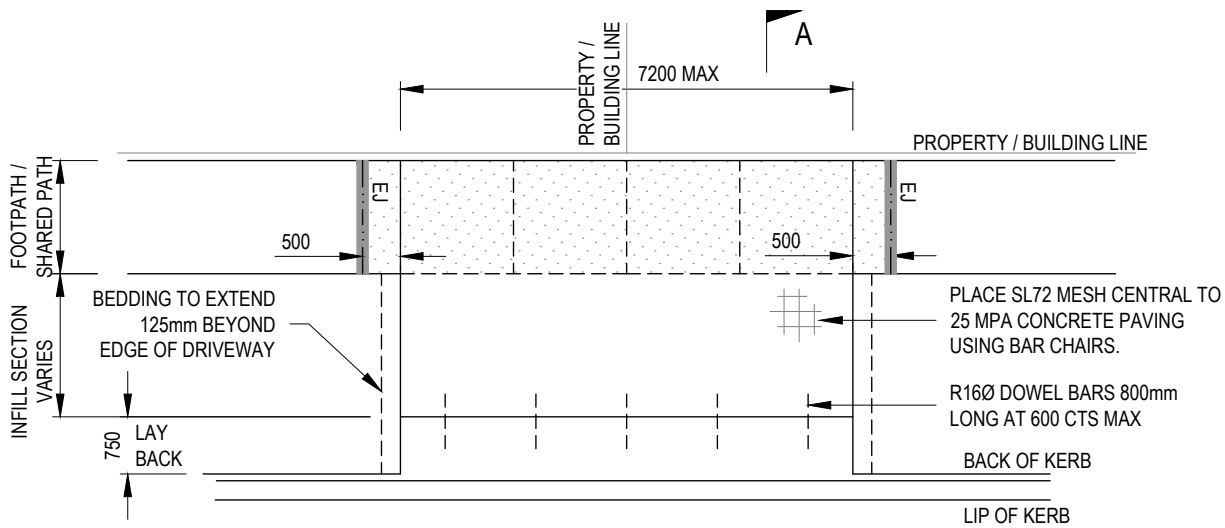
SD 240

NOT TO SCALE

Infrastructure Design Manual Standard Drawings

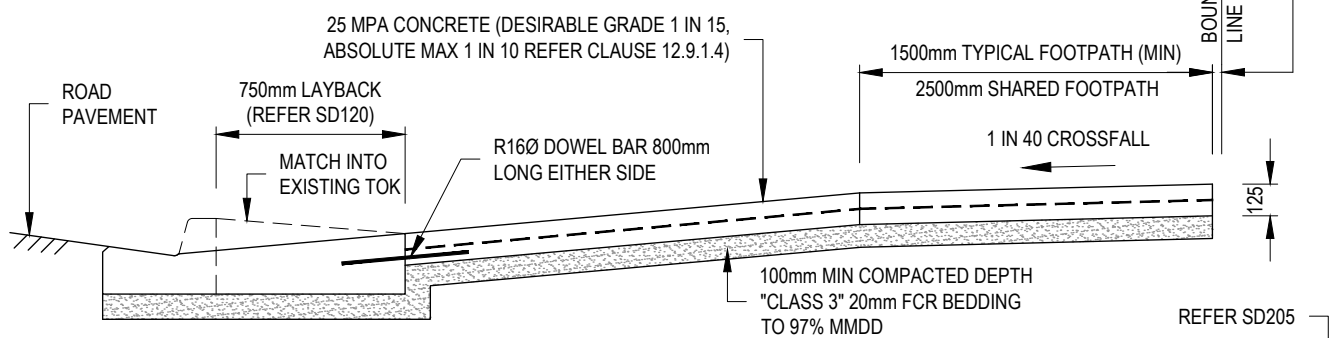
A copy of the Infrastructure Design Manual can be viewed on the Design Manual website www.designmanual.com.au



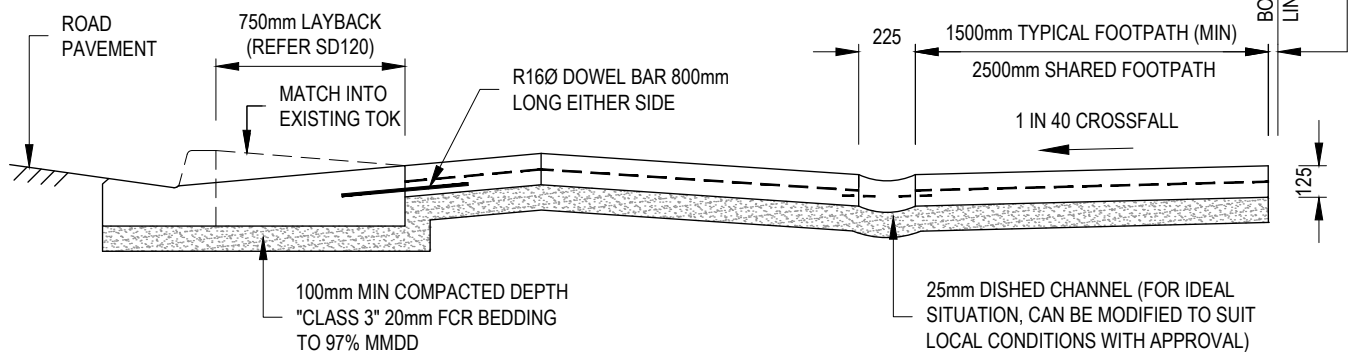


PLAN

REFER SD205



SECTION A-A (STANDARD)



SECTION A-A (REVERSE FALL)

(ONLY TO BE USED WITH COUNCIL APPROVAL)

NOTE:

- FOR GRADES STEEPER THAN 1 IN 10 REFER CLAUSE 12.9.1.4 LAYBACK & CROSSOVER, TO BE CONSTRUCTED IN PLAIN CONCRETE ONLY (NO COLOURED CONCRETE BEYOND PROPERTY BOUNDARY)
- T.O.K. DENOTES TOP OF KERB
- FOR STEEP TERRAIN CONTACT THE COUNCIL FOR GUIDANCE.
- REFER SD235 FOR DETAILS TO RETROFIT VEHICLE CROSSING INTO EXISTING.

LEGEND:

EXPANSION JOINT

EJ

WEAKENED PLANE JOINTS

ALL MEASUREMENTS IN MILLIMETRES

NEW RESIDENTIAL SHARED / DOUBLE VEHICLE CROSSING DETAILS FOR ADJACENT PROPERTIES

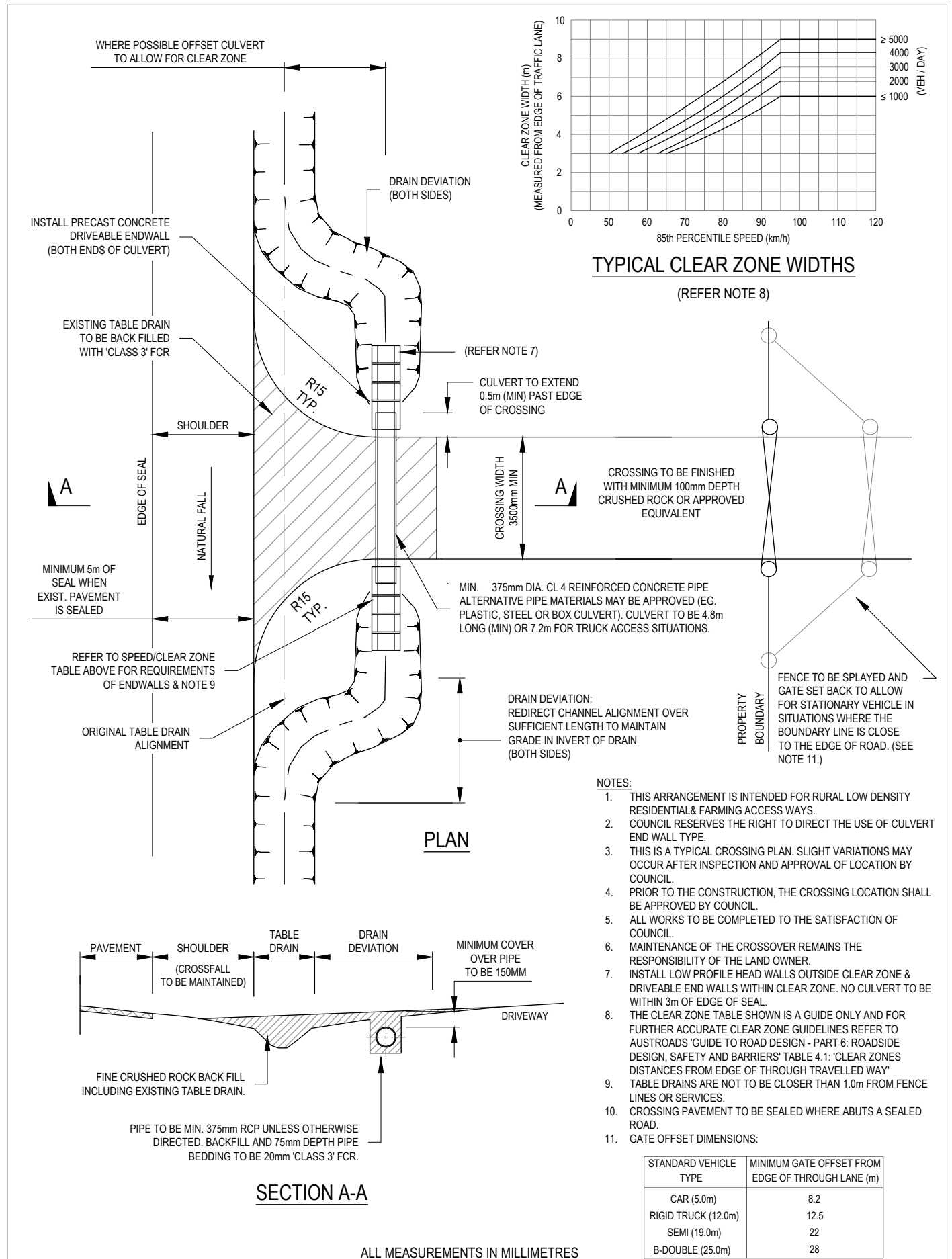
LAST UPDATED 26/02/2020

SD 245

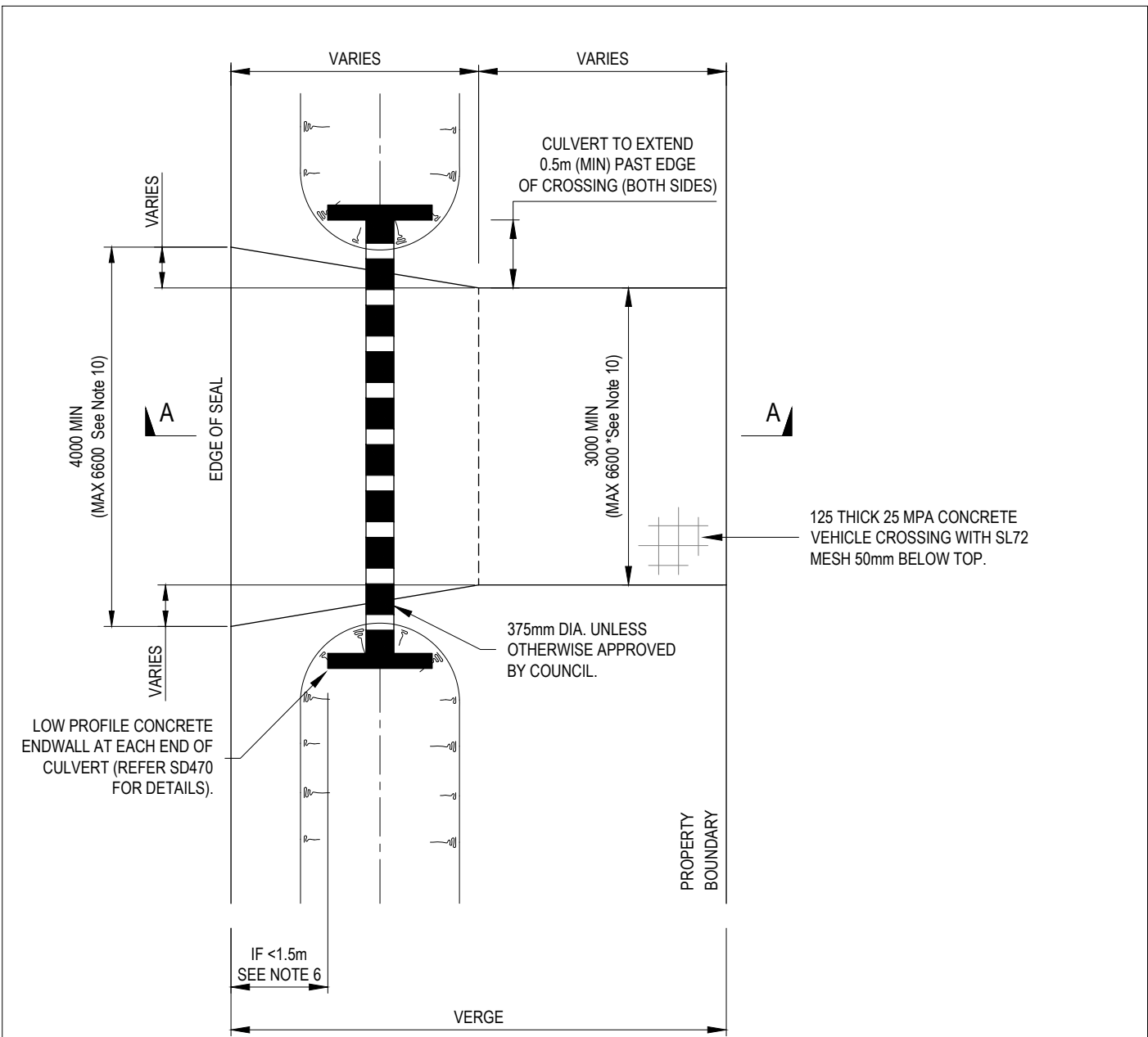
Infrastructure Design Manual Standard Drawings

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NOT TO SCALE



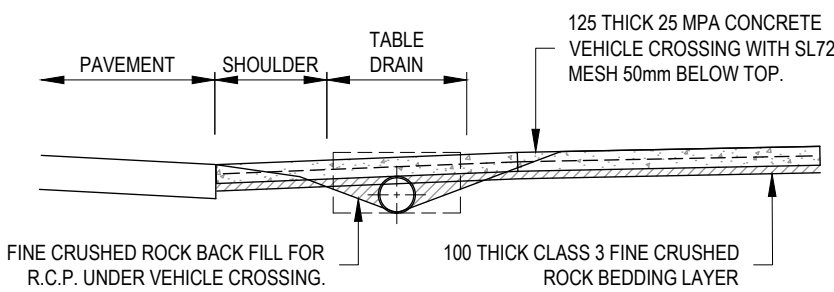
TYPICAL SWALE DRAIN VEHICLE CROSSING (RURAL ENTRANCE)



NOTES:

1. COUNCIL RESERVES THE RIGHT TO DIRECT THE USE OF CULVERT END WALL TYPE.
2. THIS IS A TYPICAL CROSSING PLAN. SLIGHT VARIATIONS MAY OCCUR AFTER INSPECTION AND APPROVAL OF LOCATION BY COUNCIL.
3. PRIOR TO THE CONSTRUCTION, THE CROSSING LOCATION SHALL BE APPROVED BY COUNCIL.
4. ALL WORKS TO BE COMPLETED TO THE SATISFACTION OF COUNCIL.
5. MAINTENANCE OF THE CROSSOVER REMAINS THE RESPONSIBILITY OF THE LAND OWNER.
6. DRIVEABLE ENDWALLS TO BE USED WITHIN 1.5m OF THE EDGE OF SEAL OR IF DESIGN SPEED IS GREATER THAN 60KM/H
7. REFER SD255 FOR ADDITIONAL CLEAR ZONE DETAILS
8. TABLE DRAINS ARE NOT TO BE CLOSER THAN 1.0m FROM FENCE LINES OR SERVICES.
9. CULVERT TO BE LOCATED AT LEAST 600mm FROM EDGE OF SEAL
10. MAXIMUM DRIVEWAY WIDTH MAYBE INCREASED UPON COUNCIL APPROVAL

PLAN



SECTION A-A

ALL MEASUREMENTS IN MILLIMETRES

**TYPICAL SWALE DRAIN VEHICLE CROSSING
(FRINGE URBAN OR RURAL RESIDENTIAL ENTRANCE)**

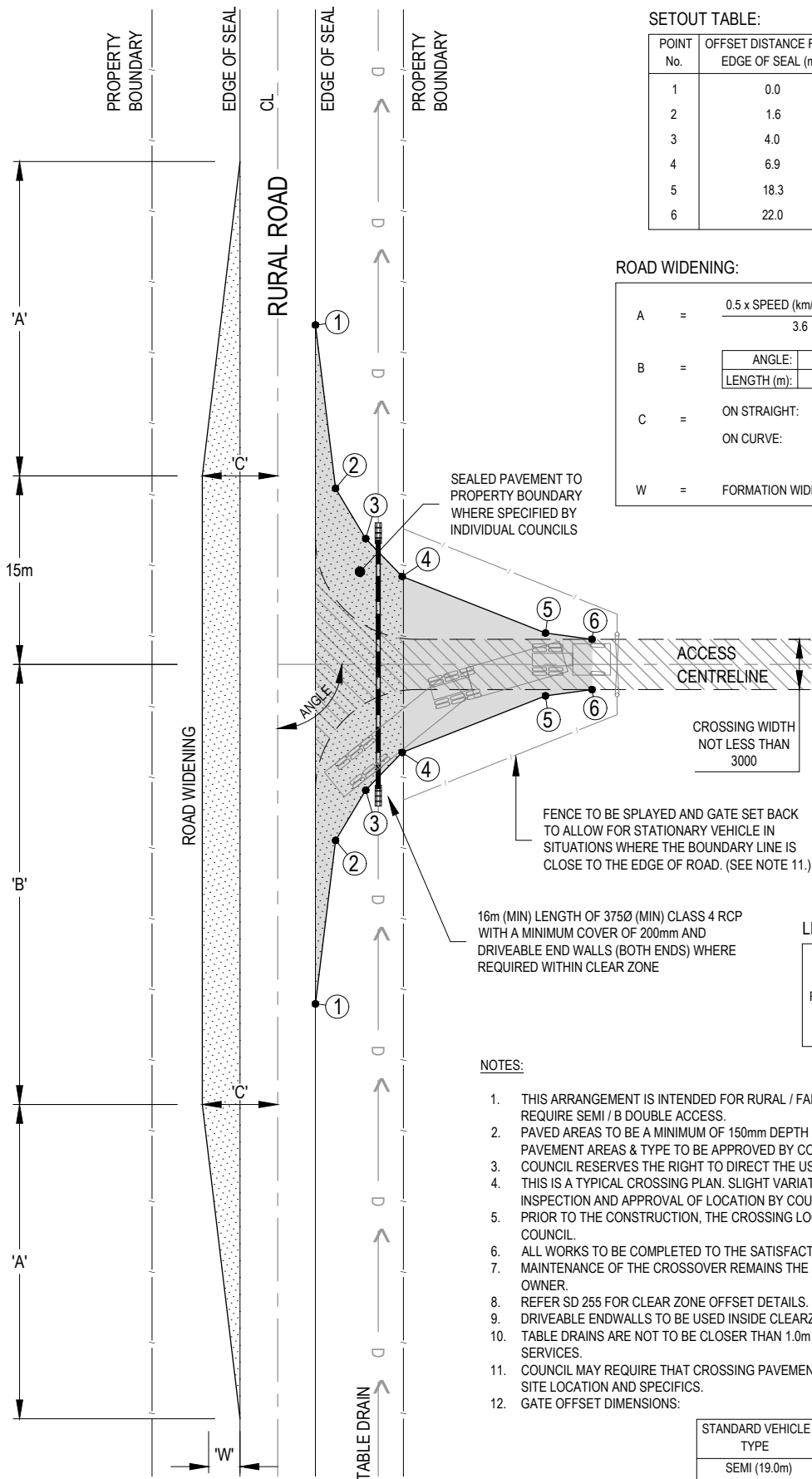
LAST UPDATED 12/03/2020

SD 260

NOT TO SCALE

Infrastructure Design Manual Standard Drawings

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SETOUT TABLE:

POINT No.	OFFSET DISTANCE FROM EDGE OF SEAL (m)	OFFSET DISTANCE FROM ACCESS CENTRELINE (m)
1	0.0	27.0
2	1.6	14.0
3	4.0	10.0
4	6.9	7.0
5	18.3	2.5
6	22.0	2.0

ROAD WIDENING:

$A = \frac{0.5 \times \text{SPEED (km/h)} \times W \text{ (m)}}{3.6}$
 $B =$

ANGLE:	70°	90°	110°
LENGTH (m):	40	35	30

 $C =$

ON STRAIGHT:	6.0m (MIN)
ON CURVE:	2 x (3.0m + CORRESPONDING WIDENING FOR CURVE RADIUS)

 $W =$ FORMATION WIDENING (IF REQUIRED BY COUNCIL)

LEGEND:

TYPICAL EXISTING ACCESS =	
RECOMENDED ACCESS SPLAY =	
AREA TO BE SEALED =	

NOTES:

- THIS ARRANGEMENT IS INTENDED FOR RURAL / FARMING ACCESS WAYS THAT REQUIRE SEMI / B DOUBLE ACCESS.
- PAVED AREAS TO BE A MINIMUM OF 150mm DEPTH COMPACTED GRAVEL. PAVEMENT AREAS & TYPE TO BE APPROVED BY COUNCIL.
- COUNCIL RESERVES THE RIGHT TO DIRECT THE USE OF CULVERT END WALL TYPE.
- THIS IS A TYPICAL CROSSING PLAN. SLIGHT VARIATIONS MAY OCCUR AFTER INSPECTION AND APPROVAL OF LOCATION BY COUNCIL.
- PRIOR TO THE CONSTRUCTION, THE CROSSING LOCATION SHALL BE APPROVED BY COUNCIL.
- ALL WORKS TO BE COMPLETED TO THE SATISFACTION OF COUNCIL.
- MAINTENANCE OF THE CROSSOVER REMAINS THE RESPONSIBILITY OF THE LAND OWNER.
- REFER SD 255 FOR CLEAR ZONE OFFSET DETAILS.
- DRIVEABLE ENDWALLS TO BE USED INSIDE CLEARZONE.
- TABLE DRAINS ARE NOT TO BE CLOSER THAN 1.0m FROM FENCE LINES OR SERVICES.
- COUNCIL MAY REQUIRE THAT CROSSING PAVEMENT BE SEALED DEPENDING ON SITE LOCATION AND SPECIFICS.
- GATE OFFSET DIMENSIONS:

STANDARD VEHICLE TYPE	MINIMUM GATE OFFSET FROM EDGE OF THROUGH LANE (m)
SEMI (19.0m)	22
B-DOUBLE (25.0m)	28

ALL MEASUREMENTS IN MILLIMETRES

TYPICAL SEMI OR B DOUBLE VEHICLE CROSSING (RURAL ENTRANCE)

LAST UPDATED 26/02/2020

Infrastructure Design Manual Standard Drawings

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