

Islands drawing index

SED_NO	Title
IS0000	Islands drawing index
IS0001	Standard detail for traffic island
IS0002	Typical pedestrian refuge island
IS0003	Planted side islands - road narrowings
IS0004	Planted side and central islands - road narrowings
IS0005	Typical details - planted side islands
IS0006	Mountable kerb & nib For traffic islands
IS0007	Roundabout and traffic Island slip-formed kerbs

Review

1



DATE: February 14, 2020

TDM TECHNICAL STANDARDS

Islands drawing index

Date:

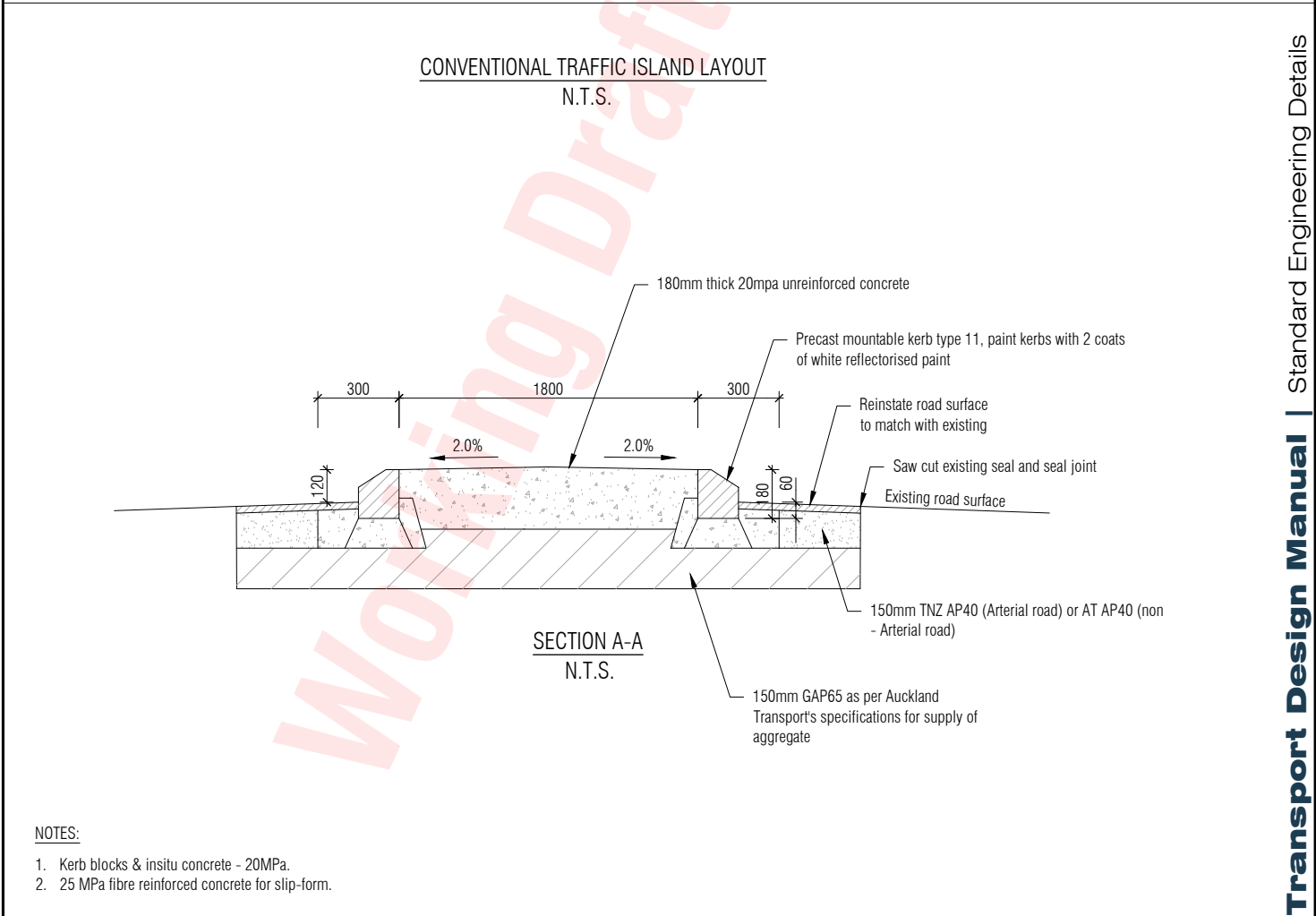
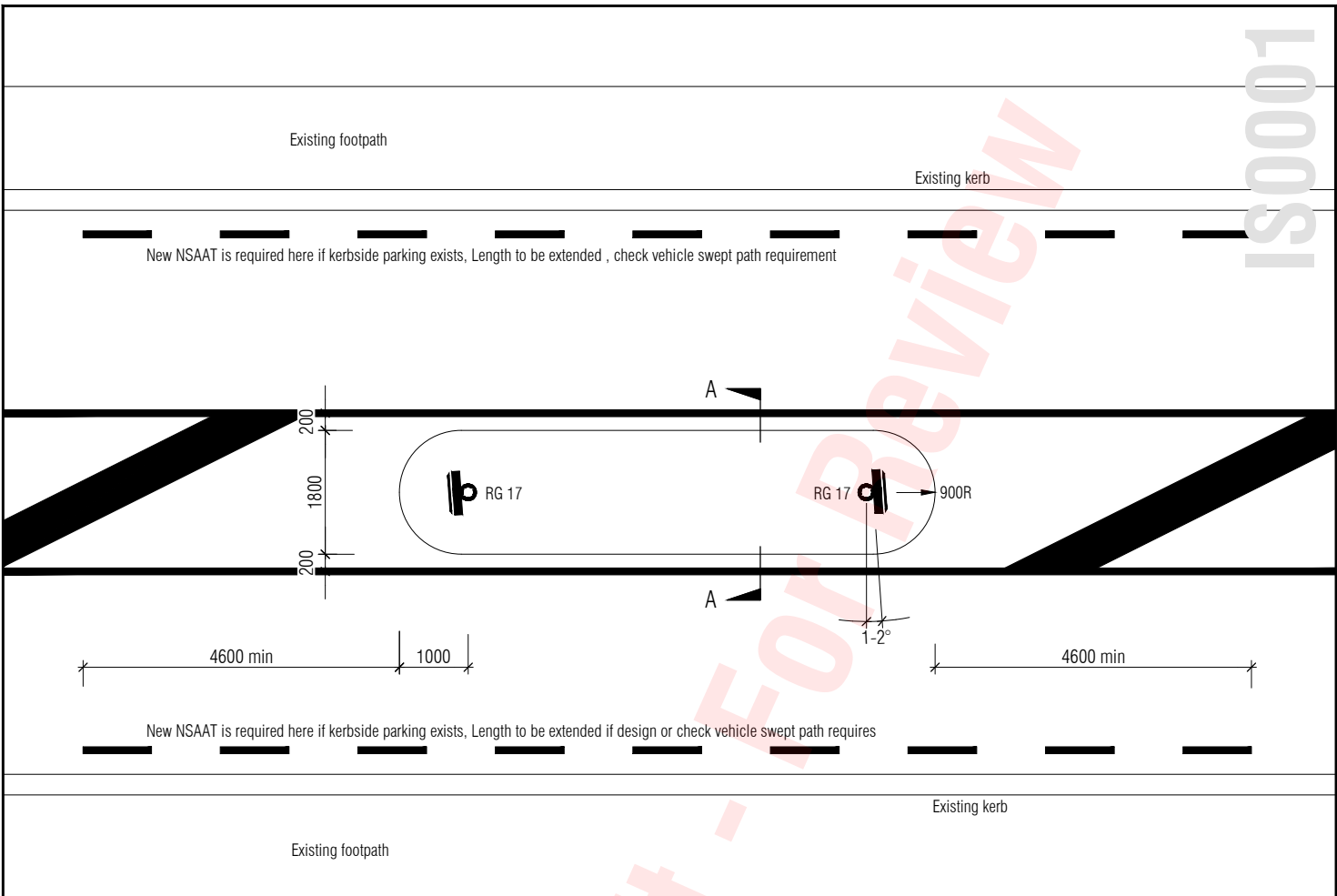
Document in Review

SED No.

IS0000

Version

A



NOTES:

1. Kerb blocks & insitu concrete - 20MPa.
2. 25 MPa fibre reinforced concrete for slip-form.

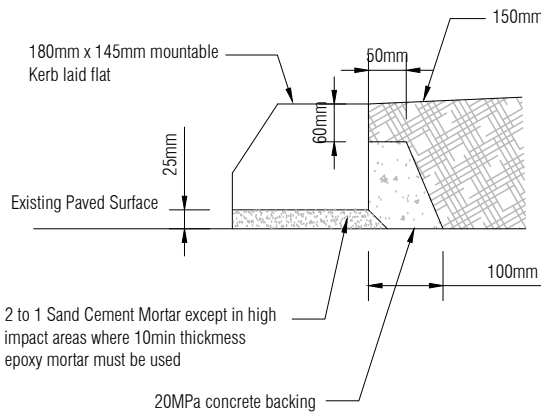
Review 1

DATE: February 14, 2020

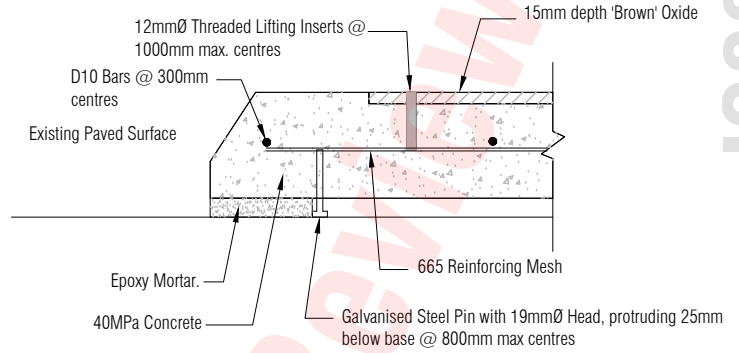
TDM TECHNICAL STANDARDS
Standard detail for traffic island

Date: **Document in Review**

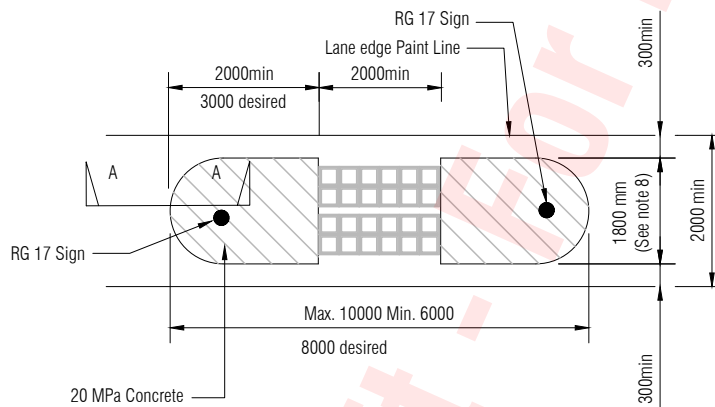
SED No.	Version
IS0001	A



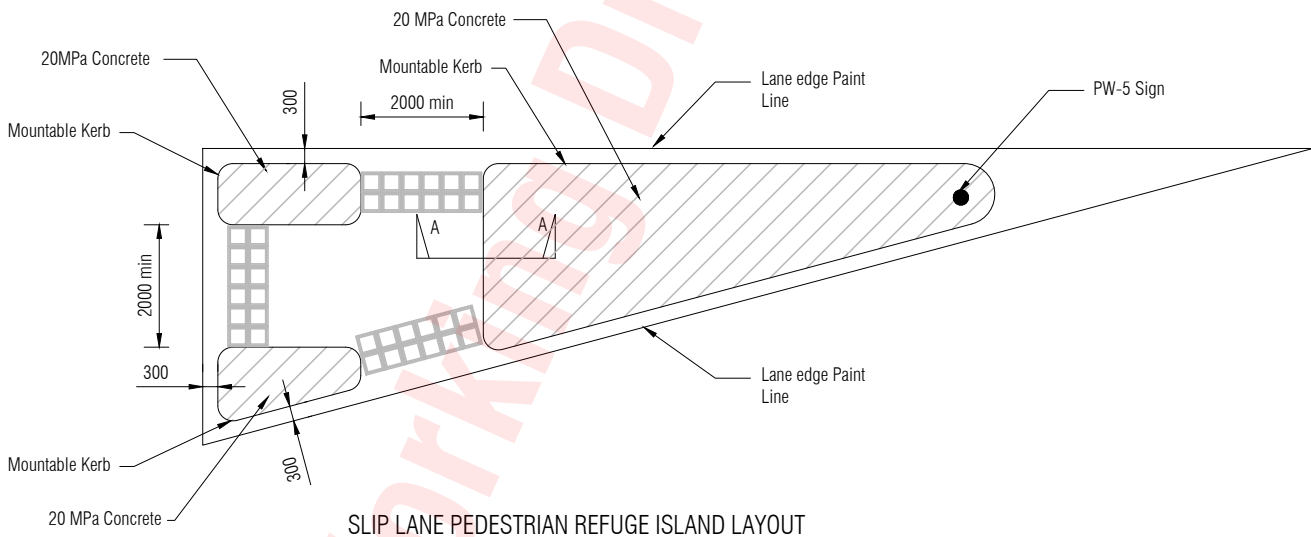
SECTION A-A - IN-SITU



SECTION A-A - PRECAST



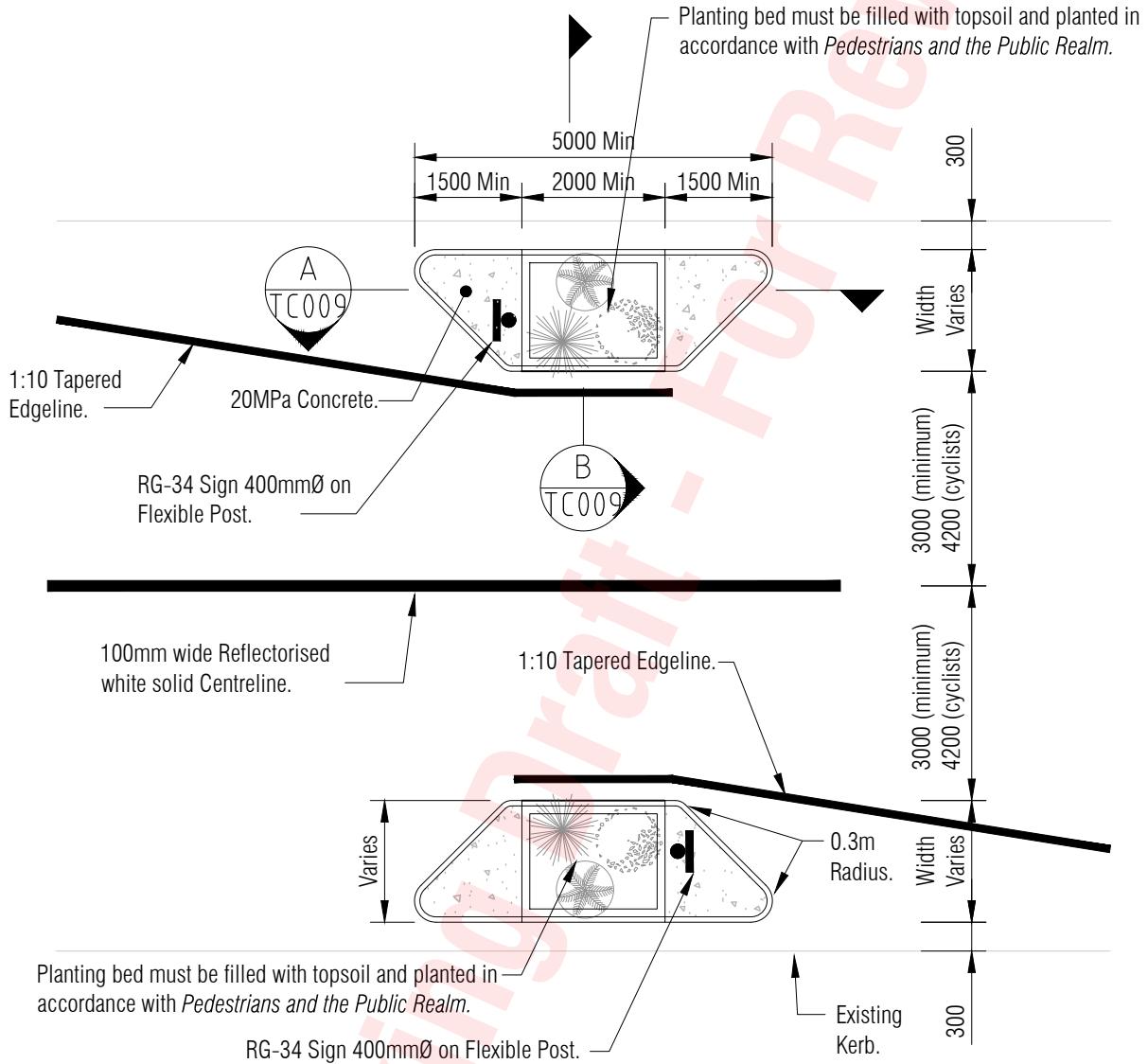
CENTRAL MEDIAN PEDESTRIAN REFUGE ISLAND LAYOUT STRAIGHT (90°) WALK-THROUGH



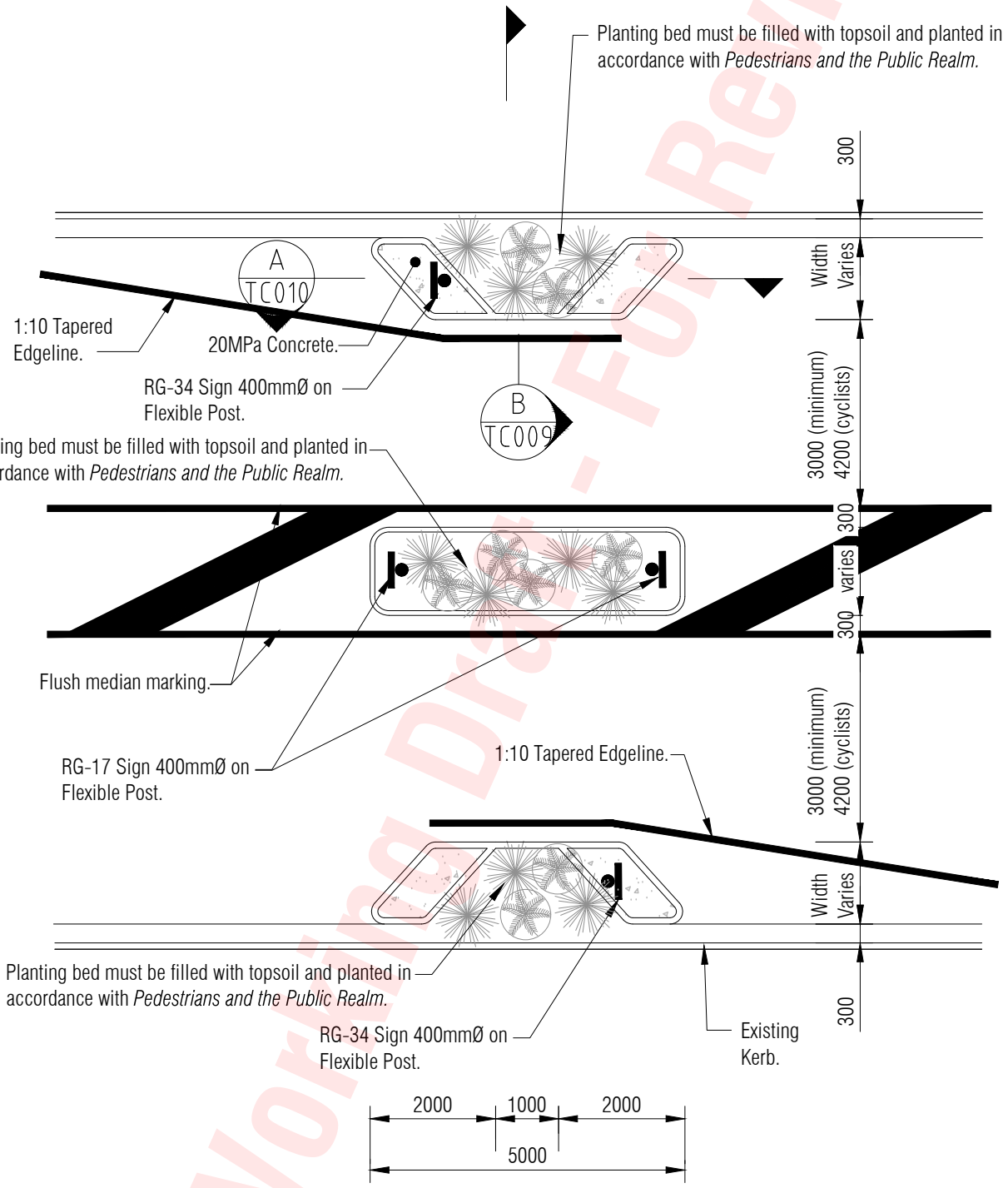
SLIP LANE PEDESTRIAN REFUGE ISLAND LAYOUT

NOTES

1. The existing paved surface (concrete or asphalt) must be coated with approved bonding agent prior to the placing of any mortar bedding or concrete backing material.
2. Surface of island must have a crossfall of 10% or max rise to centre of 150mm.
3. Use radius blocks as required.
4. All sign posts are to be SS-3 type - (Vertiflex Posts).
5. A minimum clearance of 300mm should be achieved between edge of any signs and kerb faces.
6. A minimum clearance of 300mm between kerb face and lane edge line should be achieved.
7. RG 17 signs on traffic islands must be rotated 4-5° away from the driver viewing axis.
8. Width of the island maybe reduced to not less than 1400mm if road width is constrained.



PLAN FOR THE SIDE ISLANDS



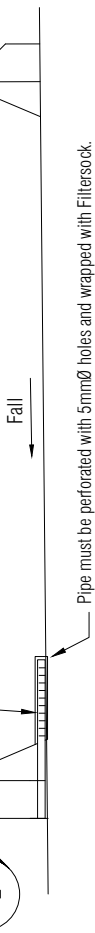
PLAN FOR SIDE AND CENTRAL ISLANDS

25mmØ PVC Drainage Pipes must be placed between Kerb Blocks as directed by the relevant AT Engineer.

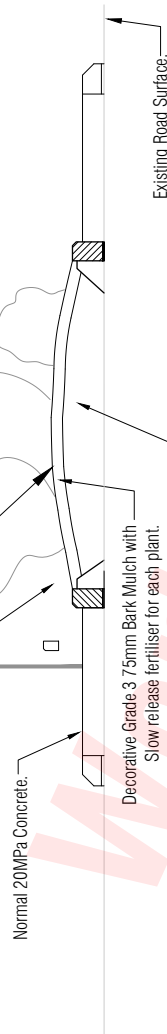


Low height Plants

RG-34 Sign 400mmØ on Flexible Post.



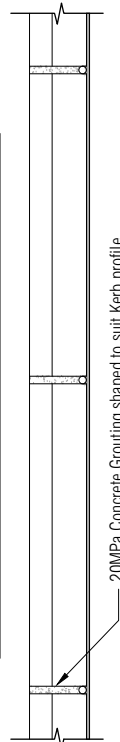
Normal 20MPa Concrete.



Decorative Grade 3 75mm Bark Mulch with Slow release fertiliser for each plant.

Planting Bed must be filled with Topsoil and planted with suitable plants as shown in Chapter 12:12.5.4.2

DRAINAGE DETAILS – TYPICAL SECTION OF SIDE ISLAND

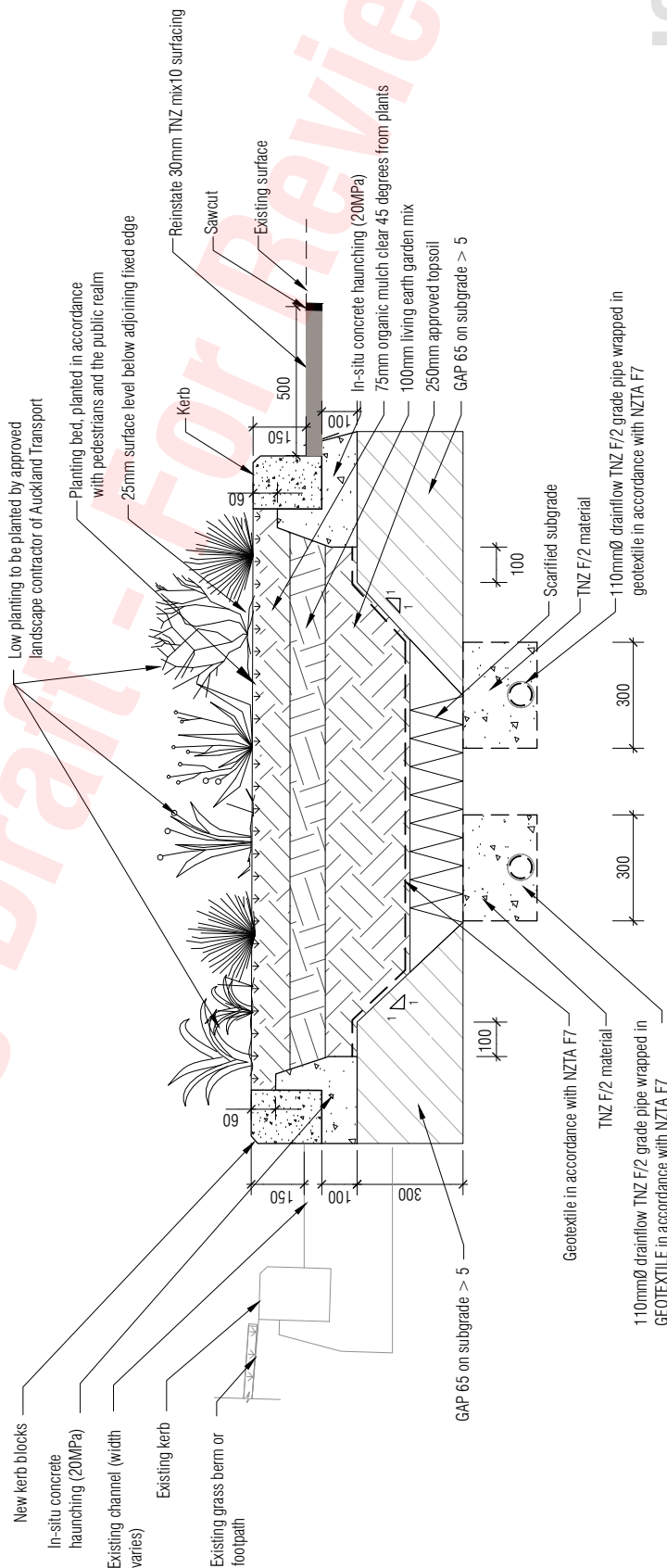


20MPa Concrete Grouting shaped to suit Kerb profile.

NOTE:

1. Pipe placement to suit drainage low points specific to island locality, and to be agreed with the relevant AT engineer prior to placing.
2. Where the planting species requires excavation into the road pavement for additional planting depth, specific pavement drainage design is required for the relevant AT Engineers approval.

DETAIL CROSS SECTION A-A FOR ISLAND PLANTERS



Planting bed, planted in accordance with pedestrians and the public realm

200x127 Standard Kerb Blocks mortared to road surface.

RG-34 Sign 400mmØ on Flexible Post.

Normal 20MPa Concrete.

Decorative Grade 3 75mm Bark Mulch with Slow release fertiliser for each plant.

Planting Bed must be filled with Topsoil and planted with suitable plants as shown in Chapter 12:12.5.4.2

Planting bed, planted in accordance with pedestrians and the public realm

25mm surface level below adjoining fixed edge

Kerb

In-situ concrete haunching (20MPa)

Existing channel (width varies)

Existing kerb

Existing grass berm or footpath

Low planting to be planted by approved landscape contractor of Auckland Transport

Planting bed, planted in accordance with pedestrians and the public realm

25mm surface level below adjoining fixed edge

Kerb

In-situ concrete haunching (20MPa)

75mm organic mulch clear 45 degrees from plants

100mm living earth garden mix

250mm approved topsoil

GAP 65 on subgrade > 5

Scarified subgrade

TNZ F/2 material

110mmØ drainflow TNZ F/2 grade pipe wrapped in geotextile in accordance with NZTA F7

TNZ F/2 material

Geotextile in accordance with NZTA F7

110mmØ drainflow TNZ F/2 grade pipe wrapped in geotextile in accordance with NZTA F7

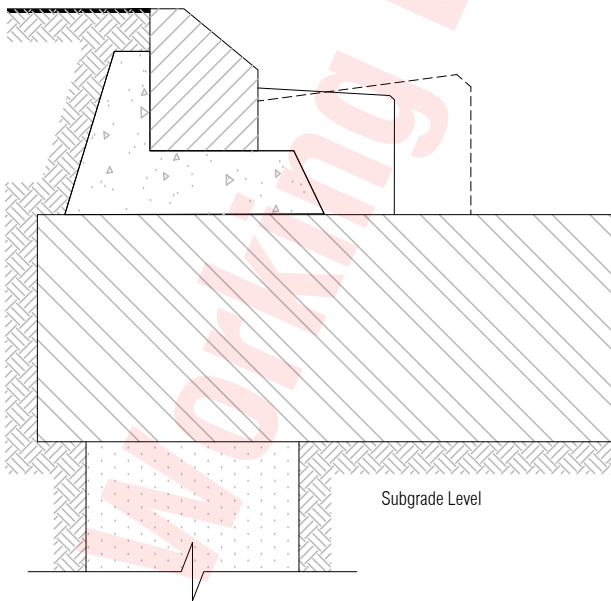
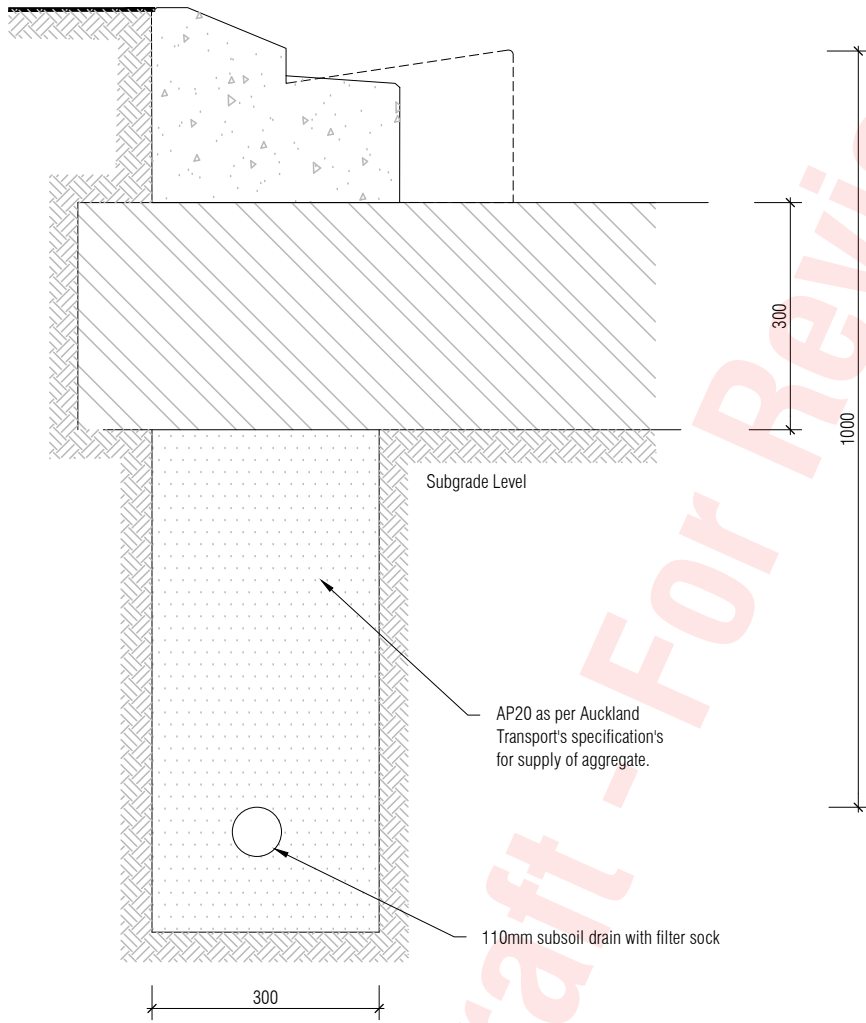
TNZ F/2 material

Geotextile in accordance with NZTA F7

110mmØ drainflow TNZ F/2 grade pipe wrapped in geotextile in accordance with NZTA F7

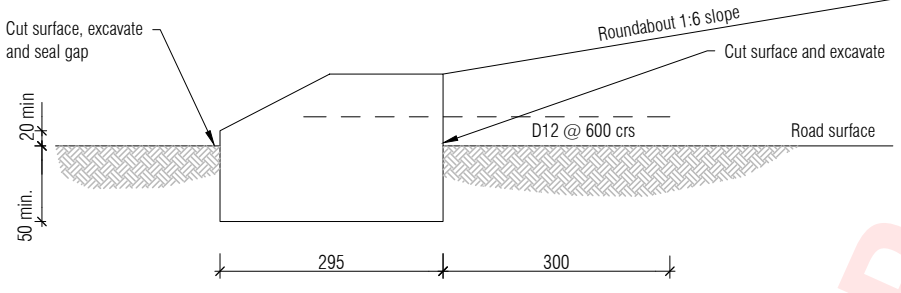
TNZ F/2 material

Geotextile in accordance with NZTA F7

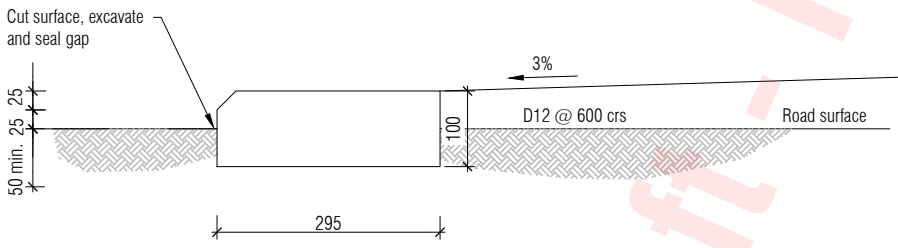


NOTES:

- 1. 25 MPa fibre reinforced concrete for slip-form.



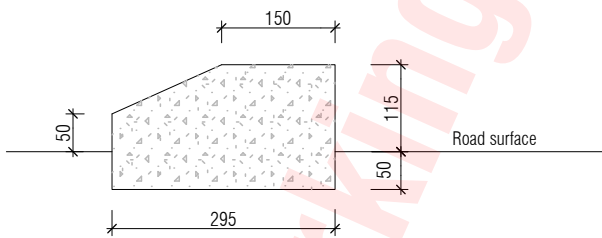
TYPE 11 STANDARD KERB PROFILE FOR ROUNDABOUTS (CENTRE ISLAND - NO OVERRUN)



KERB PROFILE FOR OVER-RUN APRONS

NOTES:

1. 25MPa Concrete with 4Kg/m³ of Brown Oxide no over-run
2. 25 MPa fibre reinforced concrete for slip-form.
3. Splitter islands or pedestrian refuge islands shall be ca 50mm below finished road surface. Any over-excavation shall be backfilled, compacted and resurfaced to match adjacent surface.
4. Concrete apron to roundabouts. Where roundabout will not be infilled with concrete, a concrete apron 1m wide must be constructed behind the kerb.
5. Where required concrete infill to islands/roundabouts shall be 100mm thick, 20MPa concrete with exposed aggregate.



SECTION THROUGH TRAFFIC ISLAND KERB INLAID ON ROAD SURFACE

Review 1

DATE: February 14, 2020

TDM TECHNICAL STANDARDS
Roundabout and traffic Island slip-formed kerbs

Date: **Document in Review**

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