

- LEGEND: (LineType)**
- EXISTING STORMWATER PIPELINE / CULVERT
  - EXISTING ELECTRICITY [OVERHEAD]
  - EXISTING TELSTRA & NBN CABLES [UNDERGROUND]
  - EXISTING EDGE OF VEGETATION

- LEGEND: (Symbols)**
- +PP ELECTRICITY - POWER POLE
  - +ELP ELECTRICITY - LIGHT POLE
  - DRAINAGE - PIT
  - SIGN POST

- PAVEMENT LEGEND:**
- Proposed roundabout concrete apron - minimum 140mm thick grade plain N32 reinforced concrete, broom finished and painted in retro-reflective white.
  - Proposed roundabout central island - minimum 125mm thick grade N32 'Sandstone' coloured concrete with a 'Bush Rock' stamped pattern, using a 'Bluestone' coloured release agent. Provide SL72 mesh with 50mm top cover.
  - Proposed 500mm thick granular pavement. (50mm AC10 | 200 AC20 | 250mm DGS40)
  - New Kerb & Gutter

- NOTES:**
- All signage designed to comply with the current edition of AS 1742.2 - Traffic control devices for general use.
  - All signage and linemarking designed to comply with the current RMS standards.
- ALL SIGNS TO BE SIZE 'B' UNLESS NOTIFIED OTHERWISE.

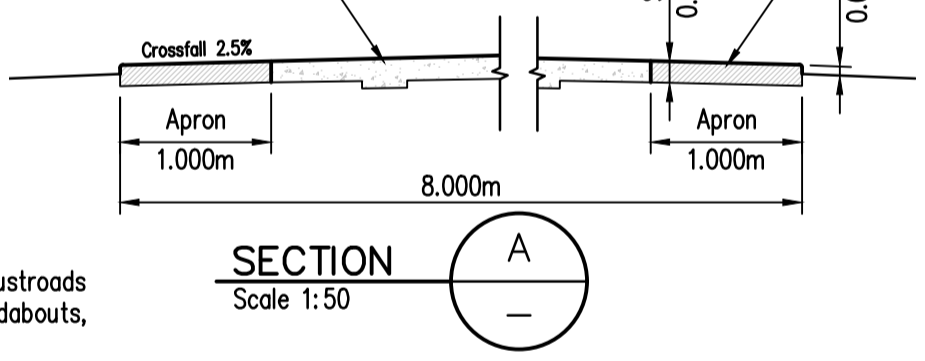
Layout Plan  
Scale 1:200

- SEALING**
- ALL binders for sealing works shall be in accordance with the Roads & Maritime Services (RMS) QA Specifications:
    - RMS 3252 - Polymer Modified Binder for Pavements
    - RMS 3253 - Bitumen for Pavements
  - ALL asphalt works and materials to be in accordance with Council's requirements, Austroads standards & specifications and AS 2150 - Hot mix asphalt - A guide to good practice.
  - It is NOT recommended that spray sealing works are done between the end of April and start of October, due to cold weather conditions.
  - BINDERS**
    - Asphalt: C450 - For general use (equivalent to AR450) including base course pavement layers
    - A15E - For high strain environments (e.g. Roundabouts OR Industrial Intersections)

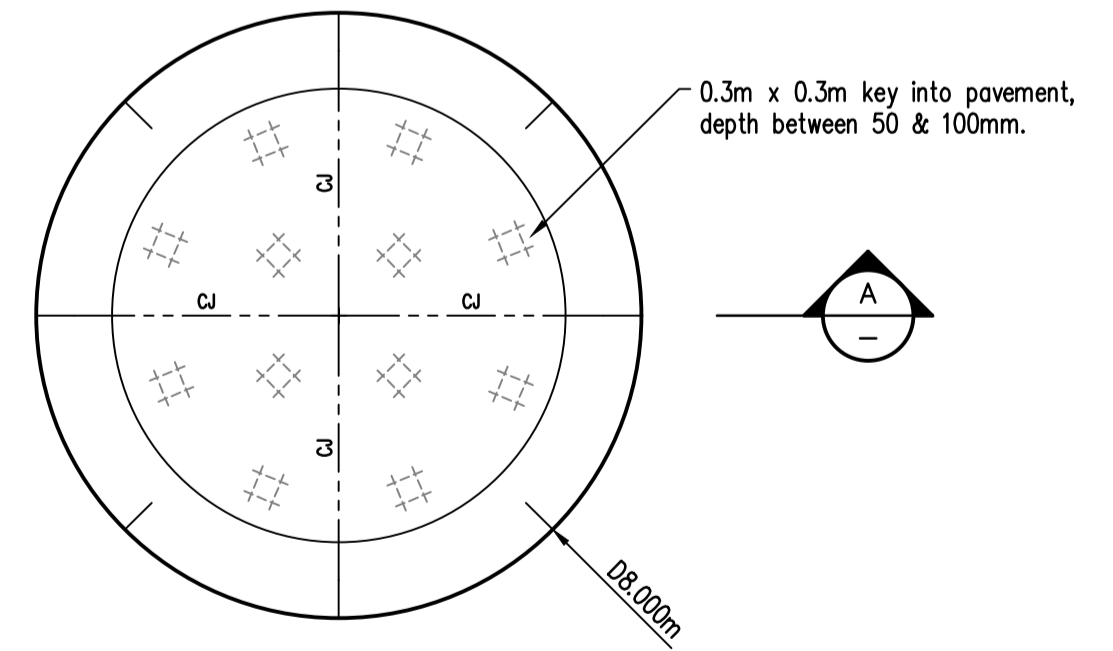
- LINEMARKING & SIGNAGE NOTES**
- All linemarking and signage to be in accordance with Shoalhaven City Council requirements, RMS guidelines & AS 1742 - Manual of uniform traffic control devices.
  - All warning signage to be "B" size and Class 1 retroreflective.
  - All warning signage associated with pedestrian facilities to be Class 1 fluorescent yellow/green in colour as per RMS Technical Direction TDT 2007/01 - Use of Fluorescent Material for Road Signs. This is to include all refuge and pedestrian warning signage.
  - All other signage (including regulatory) to be in accordance with AS 1742.2.
  - Retroreflective raised pavement markers (RRPMs) to be installed after final seal on all linemarkings, including centre lines, edge lines, continuity lines, lane lines, transition lines, central medians and painted islands in accordance with the current standards for RRPMS as detailed in AS 1742.2 (Sec. 5.6) and RMS guidelines.
  - Guide posts are to be provided on both sides of all roads in accordance with RMS guidelines and AS 1742.2 (Sec. 4.2.4) and one guidepost immediately before and after all drainage pits and headwalls (i.e. two per headwall and four per drainage road crossing).
  - All longitudinal, diagonal and chevron pavement markings shall be white waterborne paint with retroreflective glass beads.
  - All transverse pavement markings, arrows and messages shall be in thermoplastic with retroreflective glass beads U.N.O.

Central island infill to be minimum 125mm thick grade N32 'Sandstone' coloured concrete with a 'Bush Rock' stamped pattern, using a 'Bluestone' coloured release agent. Provide SL72 mesh with 50mm top cover.

The roundabout apron shall be a minimum 140mm thick grade N32 plain reinforced concrete, have a non-slip broom finish and shall be painted in retro-reflective white. Provide SL82 mesh with 50mm top cover.



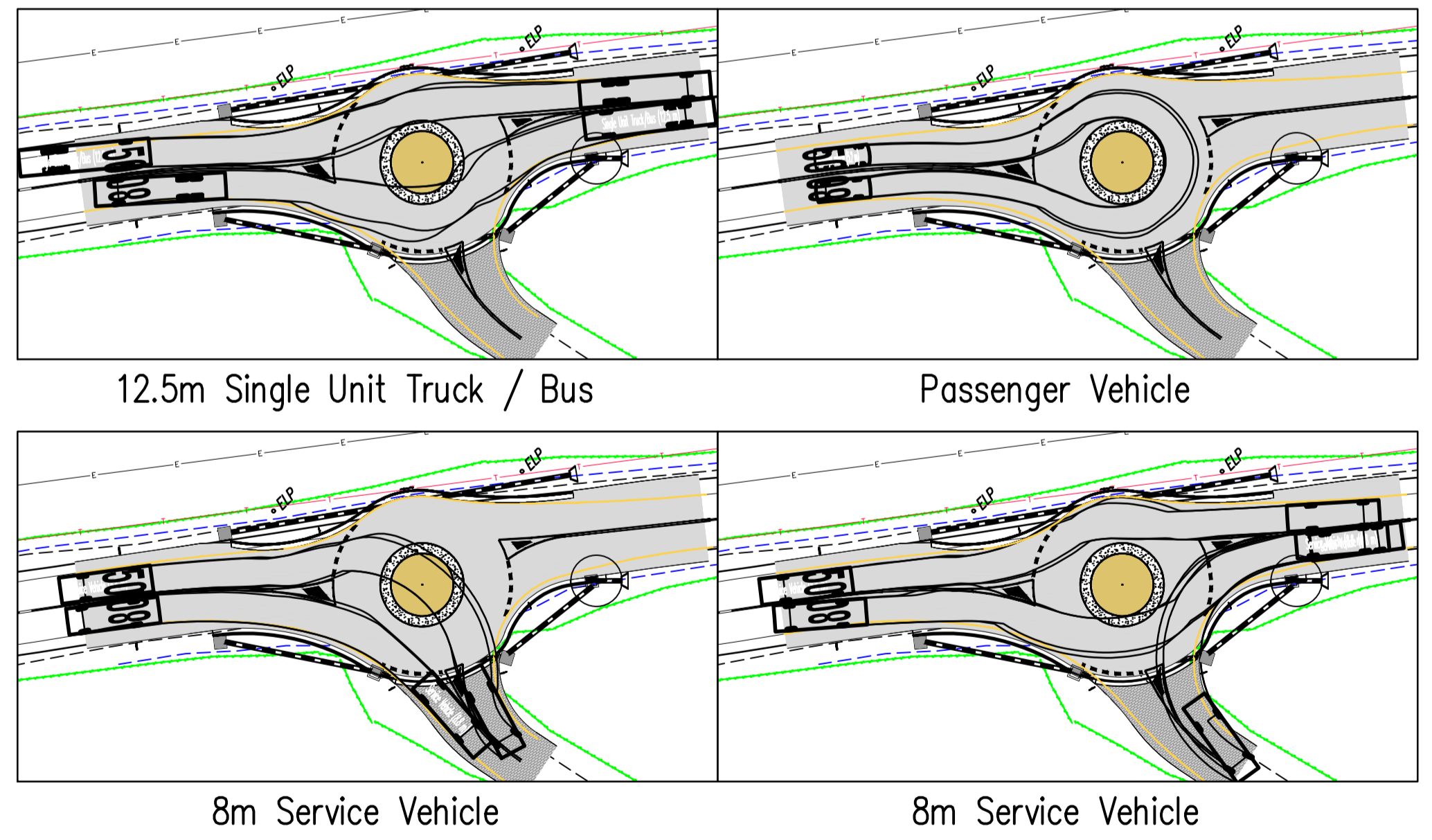
**NOTE:**  
Apron designed in accordance with Austroads Guide to Road Design Part 4B: Roundabouts, refer to Figure 4.11 'Type A' for details.



**ROUNDBOUT DESIGN CRITERIA:**

Inscribed Circle Radius	8.5m
Circulation Carriageway Width	4.5m
Central Island Radius	4.0m
Apron Width (Nominal)	1.0m

Roundabout Central Island Concrete Detail  
Scale 1:100



Swept Path Analysis  
Scale 1:500

Drawing Status: **CONCEPT**

AMENDMENT	DATE	TO BE SURVEYED		SCALES		BOODEREE AVENUE, HYAMS BEACH PROPOSED ROUNDBOUT - ILLOWRA LANE SIGNAGE & LINEMARKING PLAN		PLAN No.			
		SURVEY:	DATE	PLAN:	AS SHOWN			CLIENT:	DATE	SHEET No.:	of
		DESIGN:	DATE	HOR:	AS SHOWN			FILE:	<<FILENAME>>		
		DRAWN:	DATE	SECTIONS:	AS SHOWN						
		CHECKED:	DATE	DATUM:					2479.02		
		APPROVED:	DATE								

