

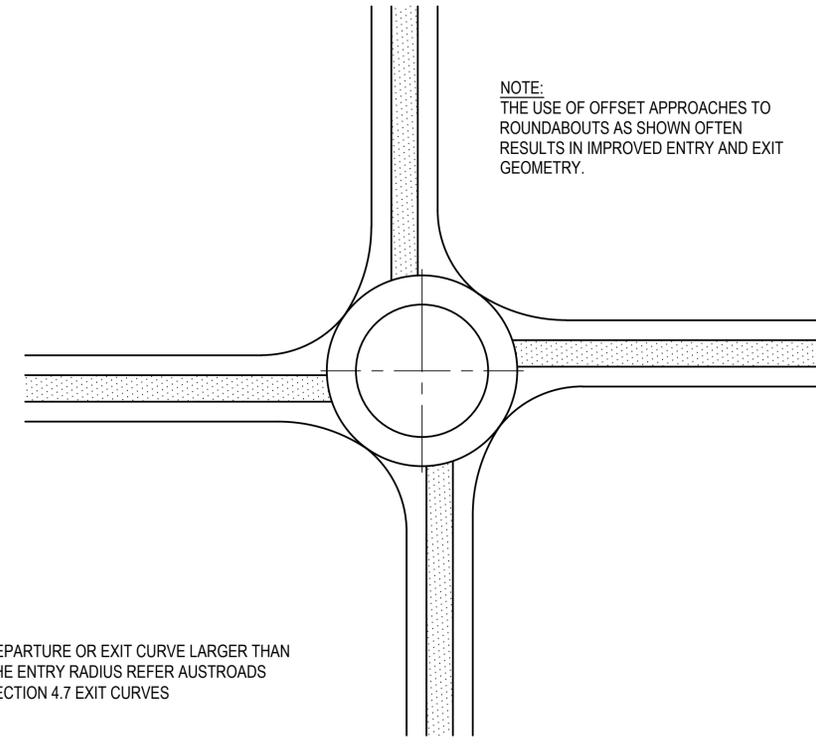
**AMENDMENTS**

No.	DESCRIPTION	APPROVED & DATE
1	DEFLECTION REMOVED. NOTES AMENDED/ADDED	T. FREEMAN
2	TABLE AND NOTES ADDED. OFFSET APPROACH DIAGRAM ADDED. NOTE 3 AMENDED.	C.M. 8/6/12
3	NOTE 5 AMENDED.	C.M. 7/6/17
4	MIN CENTRAL ISLAND RADIUS TABLE AMENDED.	D.N. 17/4/18
5	TITLE BLOCK AND REFERENCES UPDATED.	C.M. 5/7/23
6	FONT STYLE CHANGED TO ARIAL NARROW.	C.M. 28/11/2023

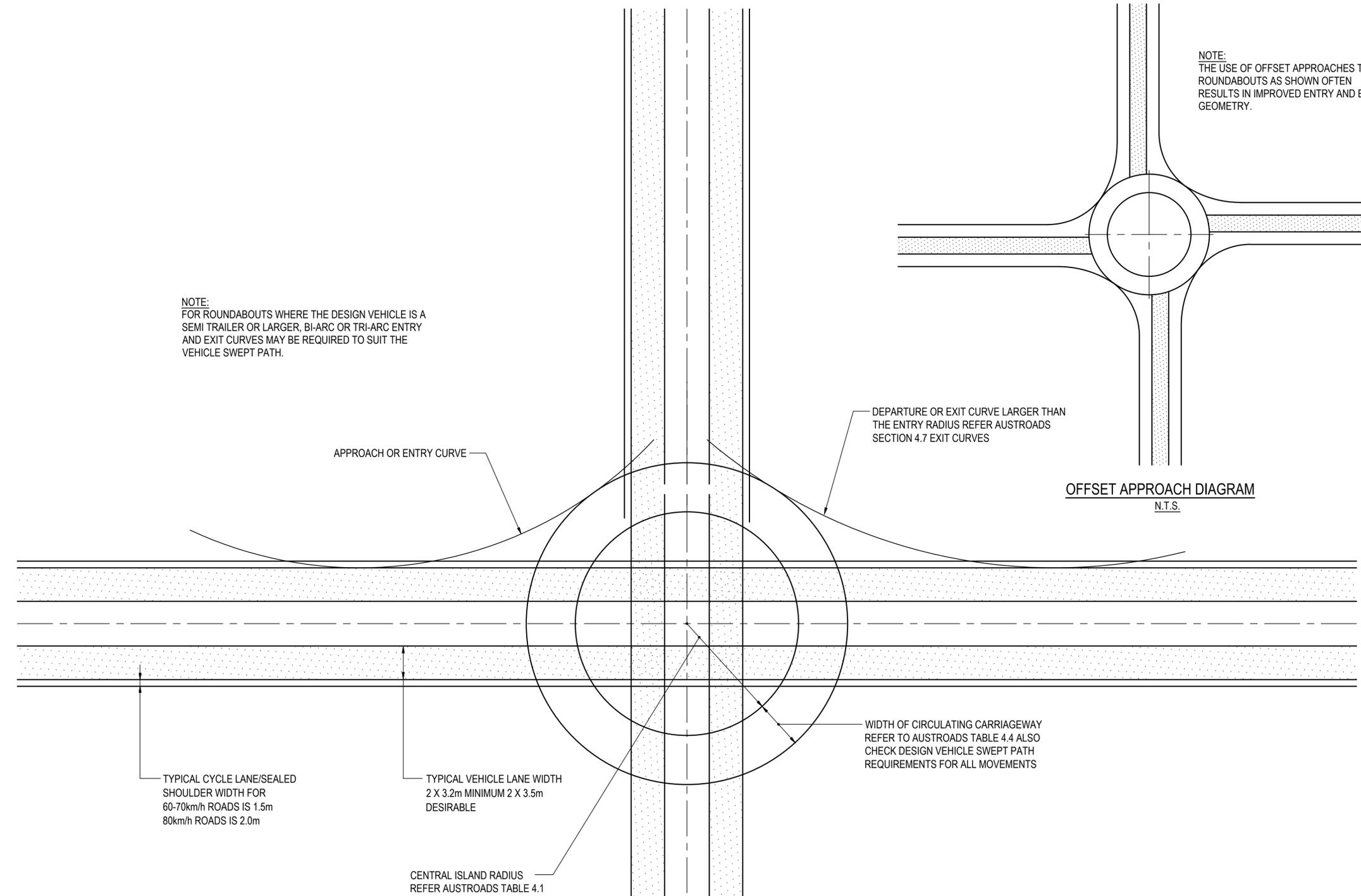
**NOTES**

- THIS DRAWING SHALL BE USED IN CONJUNCTION WITH MAIN ROADS SUPPLEMENT TO AUSTRROADS GUIDE AND THE AUSTRROADS GUIDE TO ROAD DESIGN PART 4B: ROUNDABOUTS.

NOTE:  
THE USE OF OFFSET APPROACHES TO ROUNDABOUTS AS SHOWN OFTEN RESULTS IN IMPROVED ENTRY AND EXIT GEOMETRY.



NOTE:  
FOR ROUNDABOUTS WHERE THE DESIGN VEHICLE IS A SEMI TRAILER OR LARGER, BI-ARC OR TRI-ARC ENTRY AND EXIT CURVES MAY BE REQUIRED TO SUIT THE VEHICLE SWEEPED PATH.



**DESIGN PROCESS - STEP 1**

- DEFINE THE THROUGH ALIGNMENT OF EACH ROAD.
- LOCATE THE INNER AND OUTER ROUNDABOUT CIRCLES. THE CENTRE POINT IS NORMALLY CENTRALLY LOCATED WITHIN THE TWO ROADS. THIS MAY VARY DEPENDING ON LAND CONSTRAINTS, SERVICES ISSUES, ROAD WIDTH OR APPROACH ANGLES.
- DEFINE THE APPROACH AND DEPARTURE CURVES ON THE VERGE SIDE AS SHOWN. THE DEPARTURE CURVE RADIUS SHOULD BE MORE GENEROUS THAN THE APPROACH RADIUS. IN SOME CASES THE MEDIAN WIDTH AT THE APPROACH MAY NEED TO BE REDUCED TO IMPROVE THE ENTRY CURVE GEOMETRY SIMILAR TO THAT SHOWN FOR THE HIGH SPEED REVERSE CURVE TREATMENT IN DRAWING 200331-0203.
- REPEAT FOR ALL LEGS.
- WHERE APPROACH SPEEDS EXCEED 70 km/h REFER TO AUSTRROADS GRD PART 4B SECTION 4.5.2 APPROACH AND ENTRY TREATMENTS - APPROACH TREATMENTS FOR HIGH-SPEED AREAS.

**RECOMMENDED MINIMUM CENTRAL ISLAND RADIUS FOR MULTIPLE COMBINATION VEHICLES ALONG SIDE A CAR**

DESIGN VEHICLE	CENTRAL ISLAND RADIUS
SEMI TRAILER	18m
DOUBLE ROAD TRAIN	26m
TRIPLE ROAD TRAIN	30m

NOTE: RECOMMENDED MINIMUM CENTRAL ISLAND RADIUS IS BASED ON ACCEPTABLE GEOMETRY AND CIRCULATING CARRIAGEWAY WIDTHS AS PER AUSTRROADS PART 4B TABLE 4.4.

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APPROVED	R. GROVE 15/8/05
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**GUIDELINE DRAWING**  
DESIGN GUIDELINES  
DUAL LANE ROUNDABOUTS  
STEP 1 OF 4

MRWA DRAWING NUMBER  
**200331-0199-6**

SCALES 1:500 A 1