









**LEGEND**

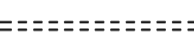

**PAVEMENT TYPES**

-  0-40mm OF RED DGA WEARING COURSE  
LATERITE MIX (10mm/75 BLOW)  
2% OXIDE WITH ATSE POLYMER MODIFIED BINDER  
AS PER MRWA SPEC 504 - TABLE 504.B2  
AREA = 80m<sup>2</sup>
-  PROFILE 30mm & INSTALL 30mm OF NEW DENSE GRADE ASPHALT (10mm/75 BLOW)  
ONE COAT 7mm PRIMER SEAL  
AREA = 900.0m<sup>2</sup>
-  FAUX PAVING - "REDSTONE" WITH "LIMESTONE" HEADER  
REINFORCED 100mm THK WITH HERRINGBONE PATTERN  
AREA = 105.0m<sup>2</sup>
-  NEW 150mm THICK REINFORCED CONCRETE  
AREA = 30.0m<sup>2</sup>
-  NEW 100mm THICK REINFORCED CONCRETE PATH  
AREA = 130.0m<sup>2</sup>

**LINE MARKING AND SIGNS**

-  DESIGN-LINEMARKING-EDGELINE
-  DESIGN-LINEMARKING-HOLDING
-  SIGN

**KERB TYPES**

-  MOUNTABLE TYPE M-1 (FLUSHED KERB)
-  SEMI-MOUNTABLE SM-1

**1** PROPOSED ROUNDABOUT DESIGN  
SCALE 1:250@A1



REV	DATE	DESCRIPTION	BY	CHK'D	APP'D

**GENERAL NOTES**

- THIS DRAWING ALWAYS REMAINS THE PROPERTY OF THE CITY OF KALAMUNDA AND MUST NOT BE RETAINED OR REPRODUCED WITHOUT PERMISSION.
- IN THE ABSENCE OF THE APPROVED SIGNATURE (ie MANAGER ASSET PLANNING & DELIVERY) THIS DRAWING SHALL BE TREATED AS PRELIMINARY.
- ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
- ANNOTATED DIMENSIONS SHALL ALWAYS TAKE PRECEDENCE OVER SCALED DISTANCES.

**NOTE:**  
ALL WORKS SHALL BE IMPLEMENTED IN ACCORDANCE WITH THE CITY'S SPECIFICATIONS, CONTRACTUAL CONDITIONS AND INDUSTRY BEST PRACTICE. ANY CONFLICTS, OMISSIONS, ISSUES OR VARIATIONS ARE TO BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE PROJECT DESIGNER.

**City of Kalamunda**  
DESIGN & SURVEY

2 Railway Road Kalamunda WA 6076  
PO Box 42 Kalamunda WA 6926  
Western Australia

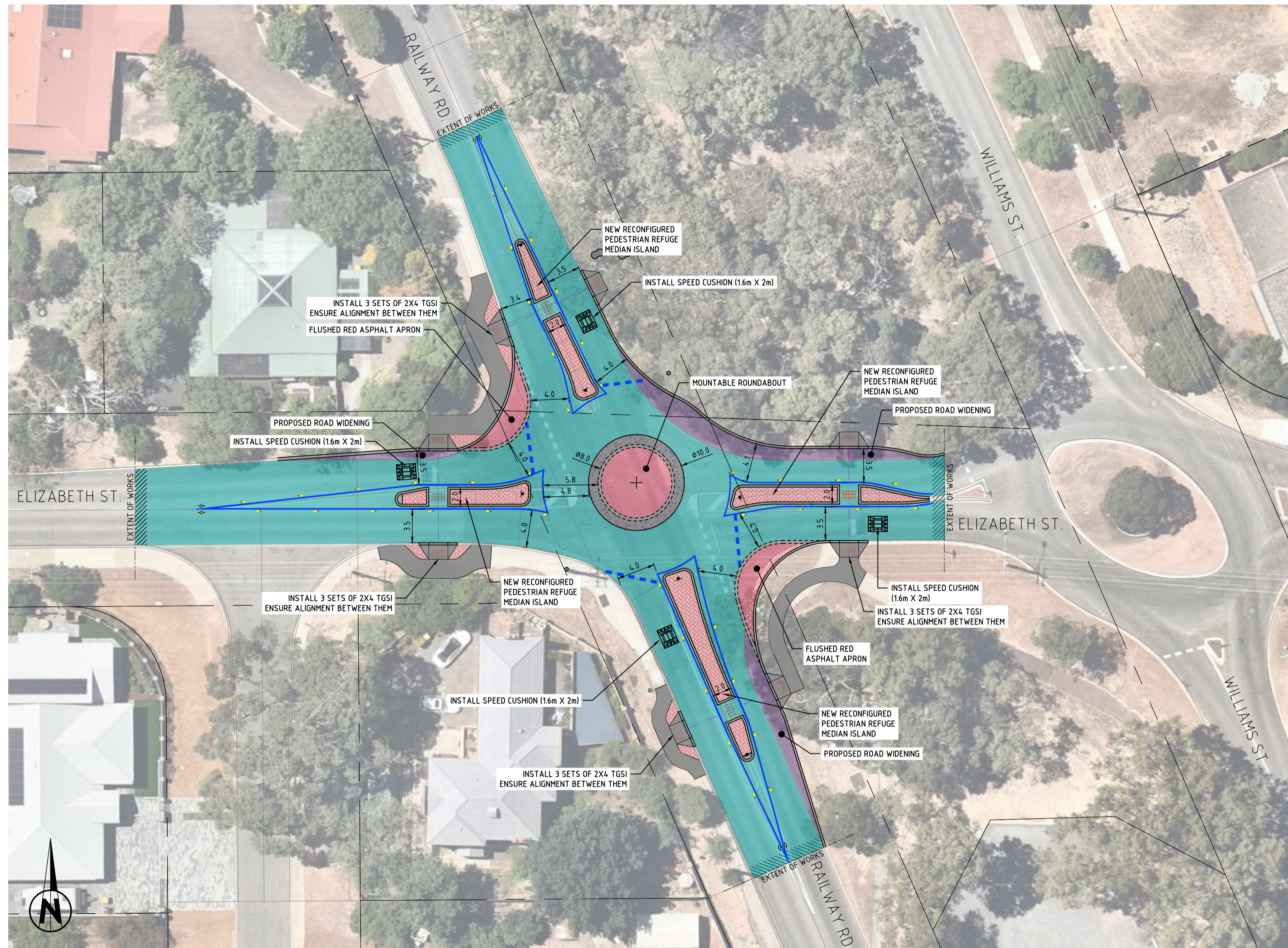
Telephone 08 9257 9999  
Facsimile 08 9293 2715  
Online www.kalamunda.wa.gov.au

DESIGN C. MOREIRA	DATE 18/06/2024	SCALE HORIZ 1:250 VERT N/A
DRAWN C. MOREIRA	DATE 01/08/2024	DATUM AHD
CHECKED SIMON LEE		GRID SYSTEM GDA 94/MGA 250
AUTHORISED R. SMITH		JOB NUMBER 3510

PROJECT RAILWAY RD. & ELIZABETH ST. ROUNDABOUT RAILWAY ROAD/ELIZABETH STREET INTERSECTION - KALAMUNDA
DRAWING TITLE PROPOSED ROUNDABOUT DESIGN

PLAN No E15-24-001 - A	REV A1
CONCEPT DESIGN MANAGER ASSET PLANNING & DELIVERY	LUKE.H DATE










**LEGEND**



**PAVEMENT TYPES**

-  0-40mm OF RED DGA WEARING COURSE  
LATERITE MIX (10mm/75 BLOW)  
2% OXIDE WITH ATSE POLYMER MODIFIED BINDER  
AS PER MRWA SPEC 504 - TABLE 504.B2  
AREA = 80m<sup>2</sup>
-  0-40mm OF RED DGA WEARING COURSE  
LATERITE MIX (10mm/75 BLOW)  
2% OXIDE WITH ATSE POLYMER MODIFIED BINDER  
AS PER MRWA SPEC 504 - TABLE 504.B2  
TWO COAT 7mm PRIMER SEAL  
BASE-COURSE 200mm QUARRY OR RECYCLED MATERIAL  
SUB-BASE 200mm LIMESTONE  
AREA = 10m<sup>2</sup>
-  NEW ROAD WIDENING  
40mm DENSE GRADE ASPHALT WEARING COURSE (10mm/75 BLOW)  
ONE COAT 7mm PRIMER SEAL  
BASE-COURSE 200mm QUARRY OR RECYCLED MATERIAL  
SUB-BASE 200mm LIMESTONE  
AREA = 90.0m<sup>2</sup>
-  PROFILE 30mm & INSTALL 30mm OF NEW DENSE GRADE ASPHALT (10mm/75 BLOW)  
ONE COAT 7mm PRIMER SEAL  
AREA = 900.0m<sup>2</sup>
-  FAUX PAVING - "REDSTONE" WITH "LIMESTONE" HEADER  
REINFORCED 100mm THK WITH HERRINGBONE PATTERN  
AREA = 105.0m<sup>2</sup>
-  NEW 150mm THICK REINFORCED CONCRETE  
AREA = 30.0m<sup>2</sup>
-  NEW 100mm THICK REINFORCED CONCRETE PATH  
AREA = 130.0m<sup>2</sup>




**LINE MARKING AND SIGNS**

-  DESIGN-LINEMARKING-EDGE LINE
-  DESIGN-LINEMARKING-HOLDING
-  UNIDIRECTIONAL YELLOW RRPMS
-  BI-DIRECTIONAL YELLOW RRPMS
-  SIGN

**KERB TYPES**

-  MOUNTABLE TYPE M-1 (FLUSHED KERB)
-  SEMI-MOUNTABLE SM-1

**OTHERS**

-  EXTENT OF WORKS (ASPHALT TIE-IN)
-  SPEED CUSHION (1.6m x 2.0m)
-  TGSIs (SETS OF 4x2)

**1** PROPOSED ROUNDABOUT DESIGN  
SCALE 1:250@A1



REV	DATE	DESCRIPTION	BY	CHK'D	APP'D

**GENERAL NOTES**

- THIS DRAWING ALWAYS REMAINS THE PROPERTY OF THE CITY OF KALAMUNDA AND MUST NOT BE RETAINED OR REPRODUCED WITHOUT PERMISSION.
- IN THE ABSENCE OF THE APPROVED SIGNATURE (ie MANAGER ASSET PLANNING & DELIVERY) THIS DRAWING SHALL BE TREATED AS PRELIMINARY.
- ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
- ANNOTATED DIMENSIONS SHALL ALWAYS TAKE PRECEDENCE OVER SCALED DISTANCES.

**NOTE:**  
ALL WORKS SHALL BE IMPLEMENTED IN ACCORDANCE WITH THE CITY'S SPECIFICATIONS, CONTRACTUAL CONDITIONS AND INDUSTRY BEST PRACTICE. ANY CONFLICTS, OMISSIONS, ISSUES OR VARIATIONS ARE TO BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE PROJECT DESIGNER.

**City of Kalamunda**  
DESIGN & SURVEY

2 Railway Road Kalamunda WA 6076  
PO Box 42 Kalamunda WA 6926  
Western Australia

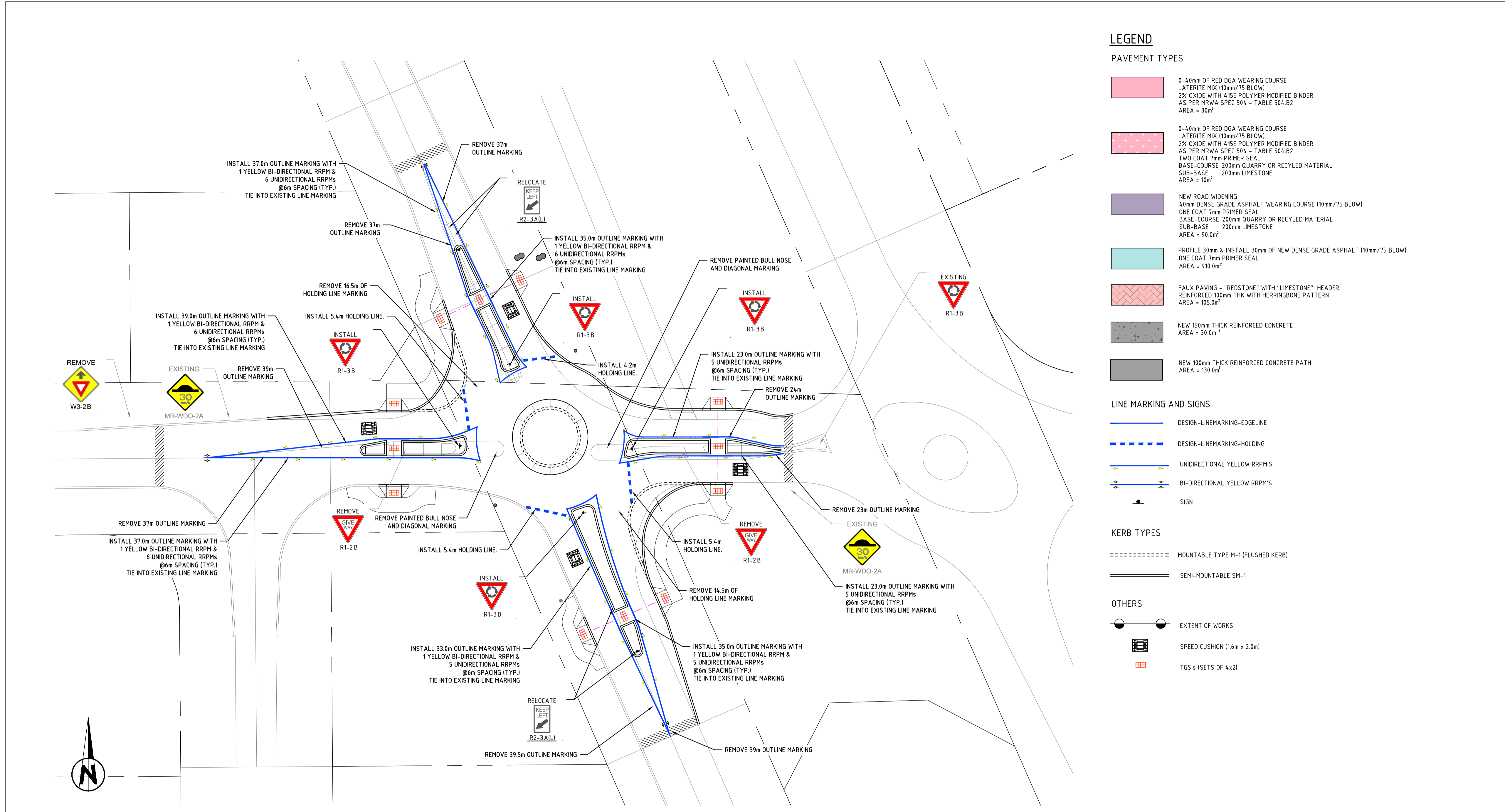
Telephone 08 9257 9999  
Facsimile 08 9293 2715  
Online www.kalamunda.wa.gov.au

DESIGN C. MOREIRA	DATE 18/06/2024	SCALE HORIZ 1:250 VERT N/A
DRAWN C. MOREIRA	DATE 01/08/2024	DATUM AHD
CHECKED SIMON LEE		GRID SYSTEM GDA 94/MGA 250
AUTHORISED R. SMITH		JOB NUMBER 3510

PROJECT RAILWAY RD. & ELIZABETH ST. ROUNDABOUT RAILWAY ROAD/ELIZABETH STREET INTERSECTION - KALAMUNDA
DRAWING TITLE PROPOSED ROUNDABOUT DESIGN

PLAN No E15-24-002 - A	REV A1
CONCEPT DESIGN	MANAGER ASSET PLANNING & DELIVERY
LUKE.H	DATE





**LEGEND**

**PAVEMENT TYPES**

- 0-40mm OF RED DGA WEARING COURSE LATERITE MIX (10mm/75 BLOW) 2% OXIDE WITH ATSE POLYMER MODIFIED BINDER AS PER MRWA SPEC 504 - TABLE 504.B2 AREA = 80m<sup>2</sup>
- 0-40mm OF RED DGA WEARING COURSE LATERITE MIX (10mm/75 BLOW) 2% OXIDE WITH ATSE POLYMER MODIFIED BINDER AS PER MRWA SPEC 504 - TABLE 504.B2 TWO COAT 7mm PRIMER SEAL BASE-COURSE 200mm QUARRY OR RECYCLED MATERIAL SUB-BASE 200mm LIMESTONE AREA = 10m<sup>2</sup>
- NEW ROAD WIDENING 40mm DENSE GRADE ASPHALT WEARING COURSE (10mm/75 BLOW) ONE COAT 7mm PRIMER SEAL BASE-COURSE 200mm QUARRY OR RECYCLED MATERIAL SUB-BASE 200mm LIMESTONE AREA = 90.0m<sup>2</sup>
- PROFILE 30mm & INSTALL 30mm OF NEW DENSE GRADE ASPHALT (10mm/75 BLOW) ONE COAT 7mm PRIMER SEAL AREA = 910.0m<sup>2</sup>
- FAUX PAVING - "REDSTONE" WITH "LIMESTONE" HEADER REINFORCED 100mm THK WITH HERRINGBONE PATTERN AREA = 105.0m<sup>2</sup>
- NEW 150mm THICK REINFORCED CONCRETE AREA = 30.0m<sup>2</sup>
- NEW 100mm THICK REINFORCED CONCRETE PATH AREA = 130.0m<sup>2</sup>

**LINE MARKING AND SIGNS**

- DESIGN-LINEMARKING-EDGE LINE
- DESIGN-LINEMARKING-HOLDING
- UNIDIRECTIONAL YELLOW RRPM'S
- BI-DIRECTIONAL YELLOW RRPM'S
- SIGN

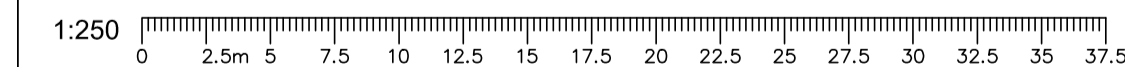
**KERB TYPES**

- MOUNTABLE TYPE M-1 (FLUSHED KERB)
- SEMI-MOUNTABLE SM-1

**OTHERS**

- EXTENT OF WORKS
- SPEED CUSHION (1.6m x 2.0m)
- TGSIS (SETS OF 4x2)

**1** PROPOSED PAVEMENT MARKING & SIGNAGE  
SCALE 1:250@A1



REV	DATE	DESCRIPTION	BY	CHK'D	APP'D

**GENERAL NOTES**

- THIS DRAWING ALWAYS REMAINS THE PROPERTY OF THE CITY OF KALAMUNDA AND MUST NOT BE RETAINED OR REPRODUCED WITHOUT PERMISSION.
- IN THE ABSENCE OF THE APPROVED SIGNATURE (ie MANAGER ASSET PLANNING & DELIVERY) THIS DRAWING SHALL BE TREATED AS PRELIMINARY.
- ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
- ANNOTATED DIMENSIONS SHALL ALWAYS TAKE PRECEDENCE OVER SCALED DISTANCES.

**NOTE:**  
ALL WORKS SHALL BE IMPLEMENTED IN ACCORDANCE WITH THE CITY'S SPECIFICATIONS, CONTRACTUAL CONDITIONS AND INDUSTRY BEST PRACTICE. ANY CONFLICTS, OMISSIONS, ISSUES OR VARIATIONS ARE TO BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE PROJECT DESIGNER.

**City of Kalamunda**  
DESIGN & SURVEY

2 Railway Road Kalamunda WA 6076  
PO Box 42 Kalamunda WA 6926  
Western Australia

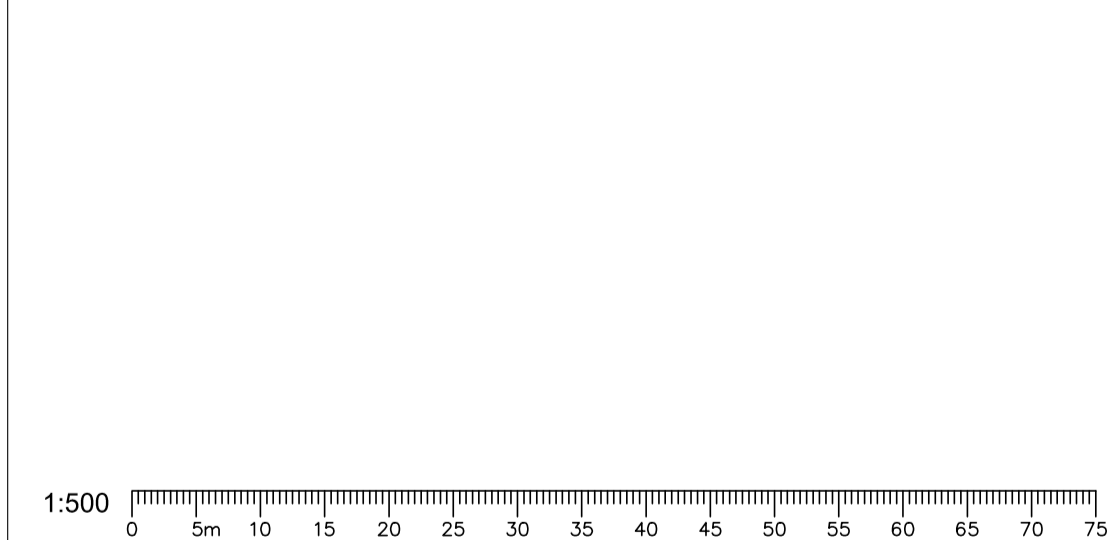
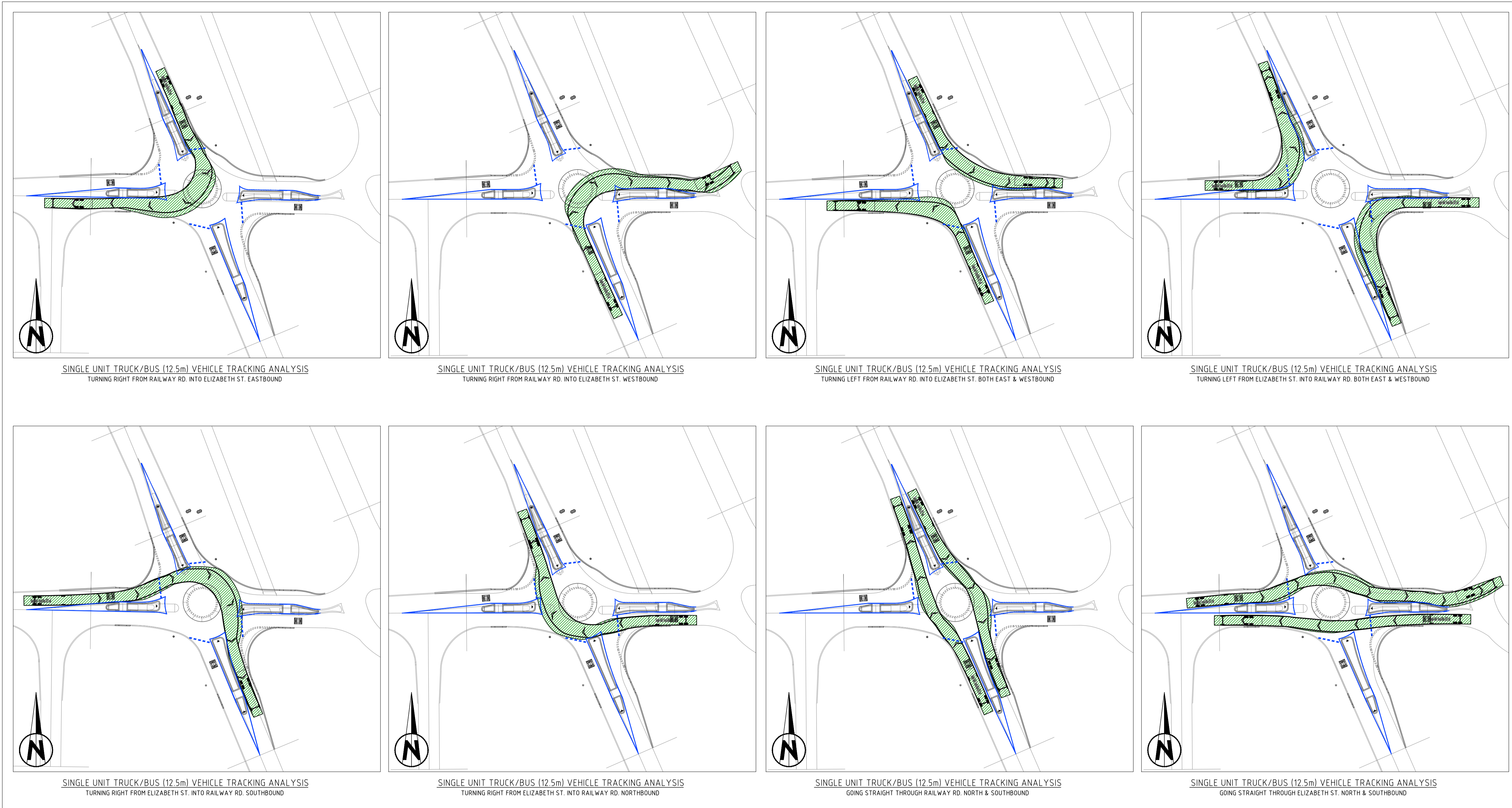
Telephone 08 9257 9999  
Facsimile 08 9293 2715  
Online www.kalamunda.wa.gov.au

DESIGN C. MOREIRA	DATE 18/06/2024	SCALE HORIZ 1:250 VERT N/A
DRAWN C. MOREIRA	DATE 01/08/2024	DATUM AHD
CHECKED SIMON LEE		GRID SYSTEM GDA 94/MGA 250
AUTHORISED R. SMITH		JOB NUMBER 3510

PROJECT RAILWAY RD. & ELIZABETH ST. ROUNDABOUT RAILWAY ROAD/ELIZABETH STREET INTERSECTION - KALAMUNDA
DRAWING TITLE PROPOSED PAVEMENT MARKING AND SIGNAGE

PLAN No E15-24-003 - A	REV A1
CONCEPT DESIGN MANAGER ASSET PLANNING & DELIVERY	
LUKE.H	DATE





REV	DATE	DESCRIPTION	BY	CHK'D	APP'D

**GENERAL NOTES**

- THIS DRAWING ALWAYS REMAINS THE PROPERTY OF THE CITY OF KALAMUNDA AND MUST NOT BE RETAINED OR REPRODUCED WITHOUT PERMISSION.
- IN THE ABSENCE OF THE APPROVED SIGNATURE (or MANAGER ASSET PLANNING & DELIVERY) THIS DRAWING SHALL BE TREATED AS PRELIMINARY.
- ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
- ANNOTATED DIMENSIONS SHALL ALWAYS TAKE PRECEDENCE OVER SCALED DISTANCES.

**NOTE:**  
ALL WORKS SHALL BE IMPLEMENTED IN ACCORDANCE WITH THE CITY'S SPECIFICATIONS, CONTRACTUAL CONDITIONS AND INDUSTRY BEST PRACTICE. ANY CONFLICTS, OMISSIONS, ISSUES OR VARIATIONS ARE TO BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE PROJECT DESIGNER.

**City of Kalamunda**  
DESIGN & SURVEY

2 Railway Road Kalamunda WA 6076  
PO Box 42 Kalamunda WA 6926  
Western Australia

Telephone 08 9257 9999  
Facsimile 08 9293 2715  
Online www.kalamunda.wa.gov.au

DESIGN	C. MOREIRA	DATE	18/06/2024	SCALE	HORIZ. 1:250 VERT. N/A
DRAWN	C. MOREIRA	01/08/2024		DATUM	AHD
CHECKED	SIMON LEE			GRID SYSTEM	GDA 94/MGA 250
AUTHORISED	R. SMITH			JOB NUMBER	3510

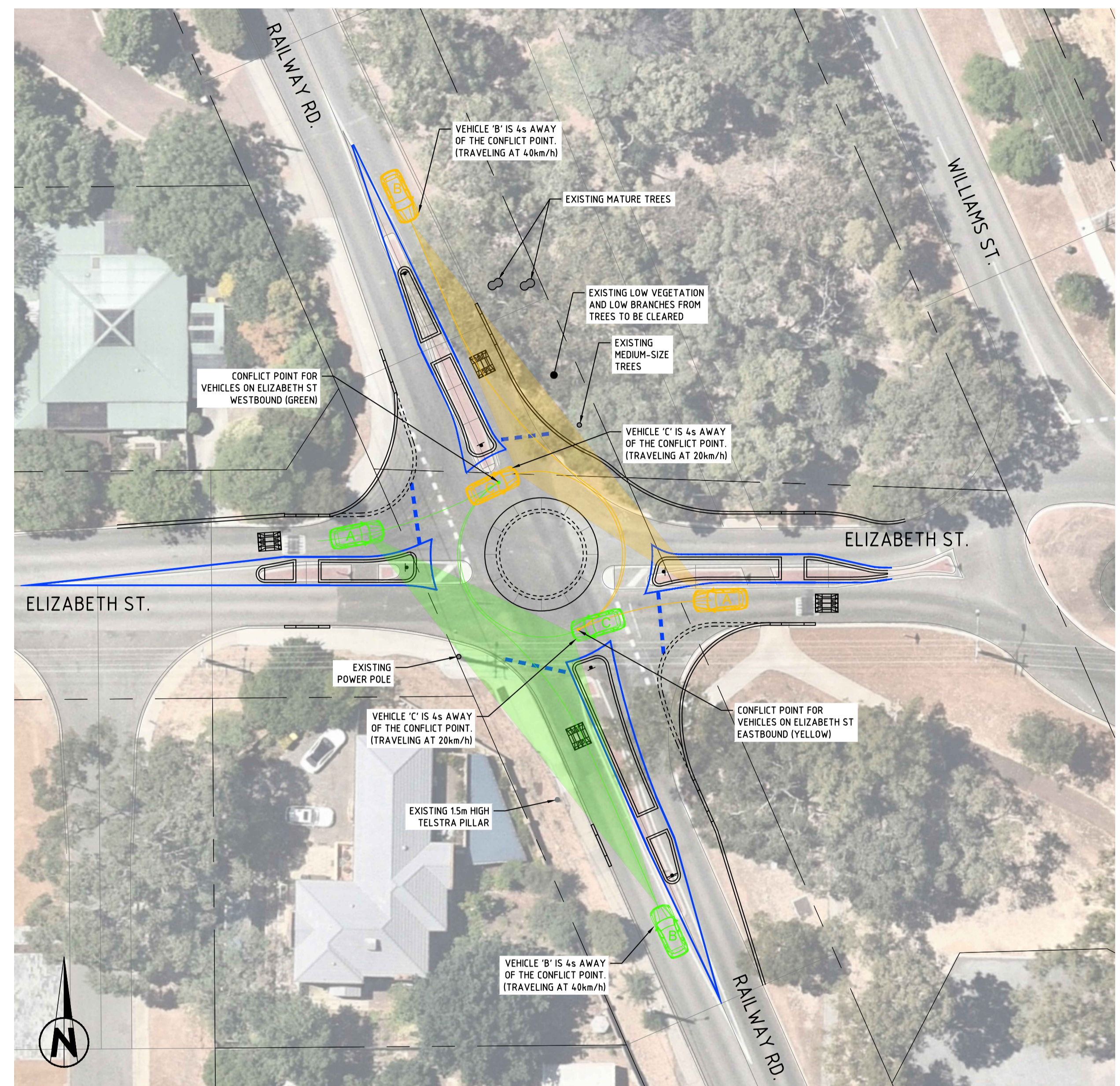
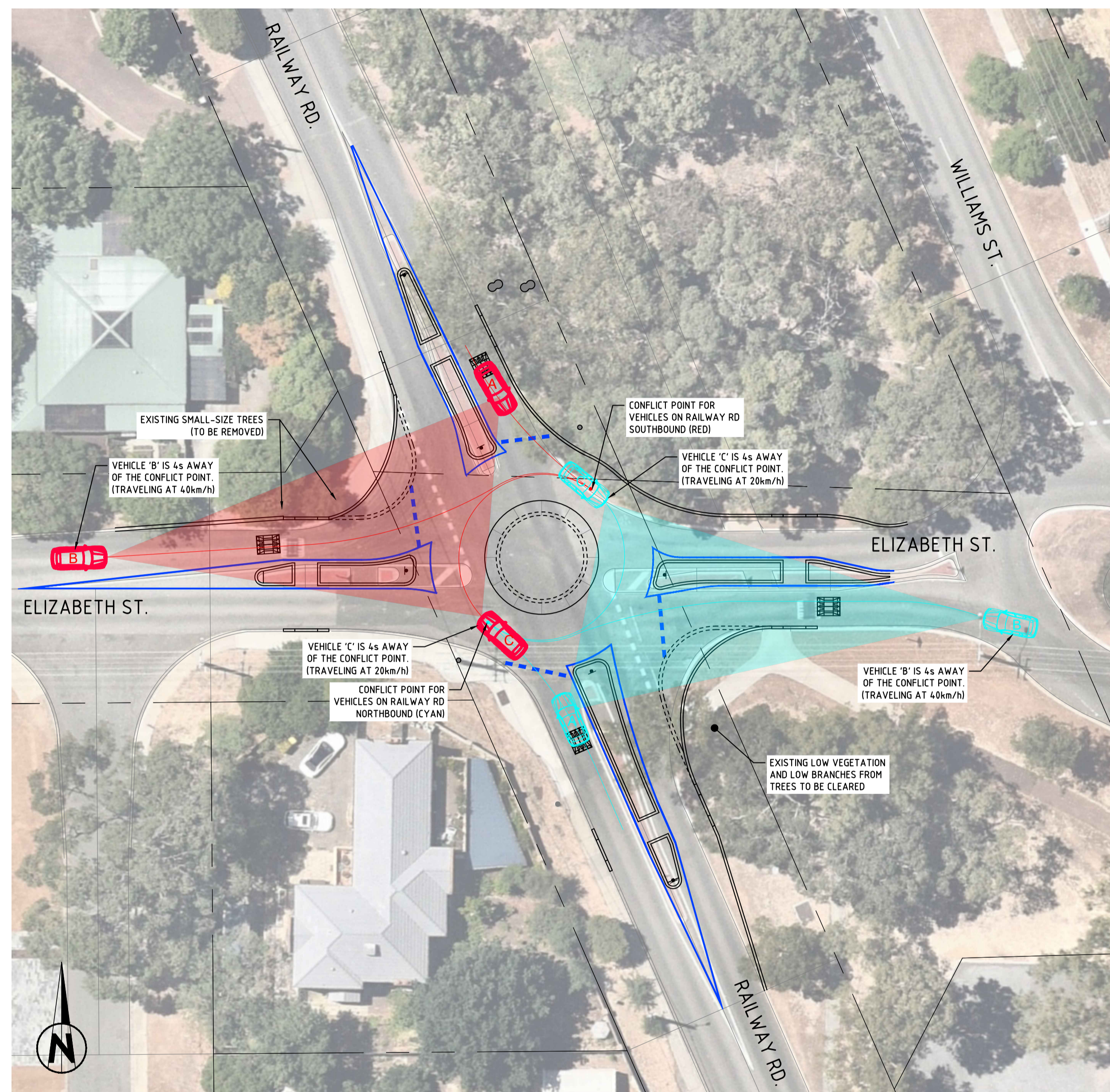
PROJECT  
RAILWAY RD. & ELIZABETH ST. ROUNDABOUT  
RAILWAY ROAD/ELIZABETH STREET INTERSECTION - KALAMUNDA

DRAWING TITLE  
TURNING MOVEMENT PATH ANALYSIS

PLAN No	E15-24-004 - A	REV	
CONCEPT DESIGN		A1	
MANAGER ASSET PLANNING & DELIVERY			
LUKEH		DATE	



7/08/2024 10:50:50 AM JAN: DESIGNER: RAILWAY RD & ELIZABETH ST ROUNDABOUT; DWG: RAILWAY RD & ELIZABETH ST - INTERSECTION TREATMENT - SHA11-4.DWG



1 SIGHT DISTANCE STUDY - A  
SCALE 1:250@A1

2 SIGHT DISTANCE STUDY - B  
SCALE 1:250@A1

LEGEND

- A VEHICLE STATIONARY AT ROUNDABOUT HOLDING LINE
- B ENTERING VEHICLE ON THE APPROACH IMMEDIATELY TO THE RIGHT
- C VEHICLE CIRCULATING ROUNDABOUT CARRIAGEWAY
- CONFLICT POINT (COLOUR VARY)



REV	DATE	DESCRIPTION	BY	EHK'D	APP'D

**GENERAL NOTES**

- THIS DRAWING ALWAYS REMAINS THE PROPERTY OF THE CITY OF KALAMUNDA AND MUST NOT BE RETAINED OR REPRODUCED WITHOUT PERMISSION.
- IN THE ABSENCE OF THE APPROVED SIGNATURE (ie MANAGER ASSET PLANNING & DELIVERY) THIS DRAWING SHALL BE TREATED AS PRELIMINARY.
- ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
- ANNOTATED DIMENSIONS SHALL ALWAYS TAKE PRECEDENCE OVER SCALED DISTANCES.

**NOTE:**  
ALL WORKS SHALL BE IMPLEMENTED IN ACCORDANCE WITH THE CITY'S SPECIFICATIONS, CONTRACTUAL CONDITIONS AND INDUSTRY BEST PRACTICE. ANY CONFLICTS, OMISSIONS, ISSUES OR VARIATIONS ARE TO BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE PROJECT DESIGNER.

**City of Kalamunda**  
DESIGN & SURVEY

2 Railway Road Kalamunda WA 6076  
PO Box 42 Kalamunda WA 6926  
Western Australia

Telephone 08 9257 9999  
Facsimile 08 9293 2715  
Online www.kalamunda.wa.gov.au

DESIGN C. MOREIRA	DATE 18/06/2024	SCALE HORIZ 1:250 VERT N/A
DRAWN C. MOREIRA	DATE 01/08/2024	DATUM AHD
CHECKED SIMON LEE		GRID SYSTEM GDA 94/MGA 250
AUTHORISED R. SMITH		JOB NUMBER 3510

PROJECT RAILWAY RD. & ELIZABETH ST. ROUNDABOUT
RAILWAY ROAD/ELIZABETH STREET INTERSECTION - KALAMUNDA
DRAWING TITLE SIGHT DISTANCE ANALYSIS

PLAN No E15-24-005 - A	REV A1
CONCEPT DESIGN	MANAGER ASSET PLANNING & DELIVERY
LUKE.H	DATE

