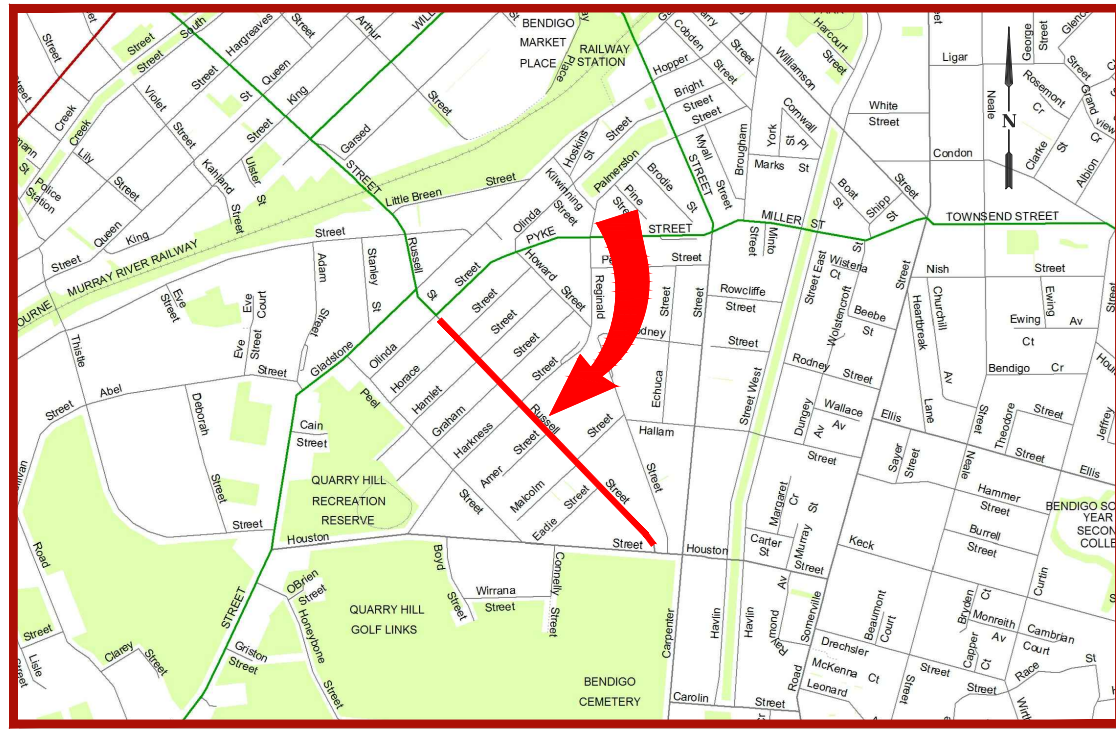


RUSSELL STREET, QUARRY HILL

GB5109

BLACKSPOT SAFETY UPGRADE OCTOBER 2023



LOCALITY MAP



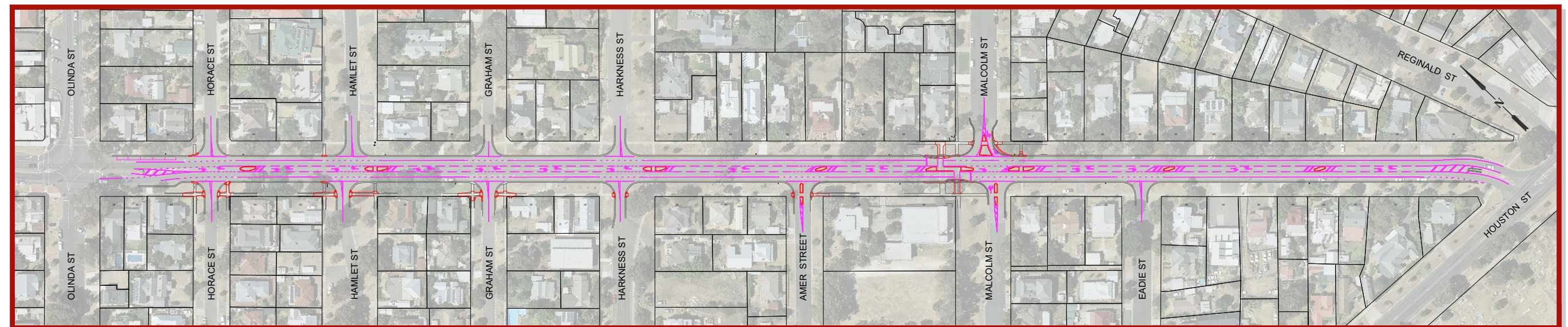
DOCUMENT CONTROL				
SHEET No.	SHEET DESC.	11/10/23	xxx	xxx
		DRAFT	TENDER	CONSTRUCTION
		REVISION	REVISION	REVISION
1	COVER SHEET	A		
2	GENERAL NOTES & TYPICAL DETAILS	A		
3	OVERALL LAYOUT & CONTROL	A		
4 - 5	GENERAL LAYOUT, LIGHTING & SPEED ZONE SIGNAGE	A		
6 - 10	DETAIL LAYOUT	A		
11	KERB PROFILES	A		
12-X	X	A		

APPROVED


By Andrew Smith at 10:02 am, Oct 09, 2023

APPROVED

By Nathan Sartori at 10:06 am, Oct 09, 2023



PROJECT EXTENTS

<div><div>CITY OF GREATER BENDIGO</div></div>	PROJECT PLANNING REQUIREMENTS				PROJECT DESIGN STATUS			PROJECT TITLE		SHEET DETAILS		
	Item	Required	Comments	Contractor	Surveyor	H.WHYTOCK	SEP. 2023	Location: Suburb: Works: Reference:	RUSSELL STREET QUARRY HILL BLACKSPOT SAFETY UPGRADE GB5109	COVER SHEET	Sheet: 1 OF 11	
	Vegetation	No	-		Designer	L. OLIVER	SEP. 2023				Scale: -	A3
	RRV	No	-		Draft Checked	A. SMITH	xx/xx/23				Plot Date:11/10/2023 By:Leigh Oliver	
	CMA	No	-		Tender Approved	N. SARTORI	xx/xx/23					
	Planning Permit	No	-		<div>PRELIMINARY DESIGN DRAFT 3</div>			AMENDMENTS				
	Land Acquisition	No	-					Revision	Description	Approved by	Date	
	CHMP	No	-					-	-	-	-	
Other	No	-					-	-	-	-		

CONSTRUCTION SPECIFICATIONS

All construction undertaken by, or on behalf of, The City of Greater Bendigo (CoGB) shall be undertaken in accordance with all DTP/Vicroads 200-700 series of Standard Specifications.

Compliance with the specifications to the satisfaction of the project Superintendent is required before a project can meet Practical Completion.

Sections of the DTP/Vicroads 200-700 series of standard specifications which are of particular relevance for this project include:

FORMATION

- 201 Site Clearing
- 204 Earthworks
- 205 Rock Fill
- 210 Geotextiles in Earthworks

FLEXIBLE PAVEMENTS

- 304 Unbound Flexible Pavement Construction
- 306 Cementitious Treated Pavement Subbase
- 307 In Situ Stabilisation of Pavements with Cementitious Binders
- 308 In Situ Stabilisation of Pavements with Foamed Bitumen Binder
- 310 Preparation of Granular Pavements for Bituminous Surfacing

ASPHALT AND SURFACE TREATMENTS

- 402 Removal of Pavement by Cold Planing (profiling)
- 407 Dense Graded Asphalt
- 408 Sprayed Bituminous Surfacing
- 431 Coloured Surface Treatments

INCIDENTAL CONSTRUCTION

- 701 Underground Stormwater Drains
- 702 Subsurface Drainage
- 703 General Concrete Paving
- 704 Precast Concrete Kerb
- 705 Drainage Pits and Covers
- 706 Installation or Replacement of Utility Infrastructure within Road Reserves
- 707 Fencing
- 710 Fixing Raised Pavement Markers
- 712 Block Paving
- 713 Beaching
- 714 Sign Installation
- 721 Pavement Markings
- 731 Road Lighting Installation

MATERIAL SPECIFICATIONS

FOR WORKS DEPARTMENT

All materials used in construction projects undertaken by the CoGB Works department shall be compliant with the specifications setout in the relevant CoGB material panel supply contract.

Where panel supply contract information is not available, material specifications shall be sought from and supplied by the CoGB Engineering Department, and all materials used in construction must comply with those specifications.

FOR EXTERNAL CONSULTANTS (inc.consultants engaged by the Work Dept.)

All materials used by external contractors engaged to undertake CoGB construction projects, or components thereof, shall be as per the material specification supplied within the instrument of engagement (Quote, Tender or Contract), or as per written instruction from the project Superintendents.

PROJECT PLANNING REQUIREMENTS

Permits and approvals

- Project permits and approvals which were required to be obtained prior to construction are listed in the below table
- Construction activities must be compliant with all conditions within the listed permits and approvals.

PROJECT PLANNING REQUIREMENTS			
Item	Required	Comments	Contractor
Vegetation	No	-	
RRV	No	-	
CMA	No	-	
Planning Permit	No	-	
Land Acquisition	No	-	
CHMP	No	-	
Other	No	-	

GENERAL NOTES

STANDARD DRAWINGS

Standard Drawings that are referenced within the design drawings are noted as 'SD', and are sourced from 3 locations. They are available for download online or from the project superintendent:

- 'CoGB SD' are sourced from the City of Greater Bendigo
<https://www.bendigo.vic.gov.au/Services/Roads-and-Drainage/Roads/Construction-standards>
- 'IDM SD' are sourced from the Infrastructure Design Manual
<https://www.designmanual.com.au/>
- 'Vicroads SD' are sourced from Vicroads
<https://www.vicroads.vic.gov.au/business-and-industry/technical-publications/technical-drawings-for-roadworks/standard-drawings-for-roadworks>

SERVICES SHOWN ON PLANS AND DURING CONSTRUCTION

- The location of underground services shown on design drawings have been derived from available information. Accuracy can not be guaranteed and should therefore be treated as indicative only.
- Gas and water property services are not located or shown on design drawings. It is the contractors responsibility to locate and alter these services as required to achieve the project design.
- Prior to undertaking construction activities, exact service locations must be arranged and marked onsite.
- The contractor will be held responsible for any damage caused to services.
- All service pit lids or valve covers within the works area are to be raised or lowered to match the design surface level to the relevant authority standards, unless noted otherwise on the construction plans, or by approval from the superintendent.
- Any service authority marker post found within the works area is to be relocated adjacent to their current position to a point 150mm offset from the nearest property boundary.
- Any PSM covers affected during works are to be renewed to CoGB SD293 unless noted otherwise, or by approval from the superintendent.

DRAINAGE

- Any private storm water pipes discovered during works are to be plumbed to the nearest CoGB drainage pit, or with approval from the superintendent, to the nearest kerb or pipe

CONSTRUCTION MANAGEMENT GUIDANCE

OCCUPATIONAL HEALTH AND SAFETY

Delivery units shall consider appropriate management of occupational health and safety, and develop management plans compliant with ISO45001, and the City of Greater Bendigo integrated management system prior to any works beginning onsite

SITE ENVIRONMENTAL MANAGEMENT PLAN

A Site Environmental Management Plan (SEMP) is to be developed by delivery units to manage the project site during the project delivery window. Consideration shall be given to appropriate management of the following, with a SEMP plan filled out and displayed onsite at all times:

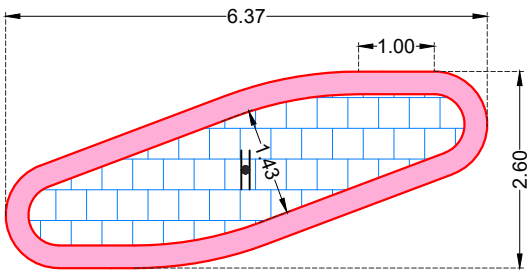
- Communication and induction for staff, contractors and sub contractors
- Communication with appropriate adjacent residents/businesses
- Noise and Vibration
- Dust and contamination
- Chemicals
- Erosion and sediment
- Waste
- Vehicle and roadside management
- Vegetation, with particular focus on any relevant permit conditions and AS4970
- Heritage, with particular focus on any relevant permit conditions

TRAFFIC MANAGEMENT PLAN

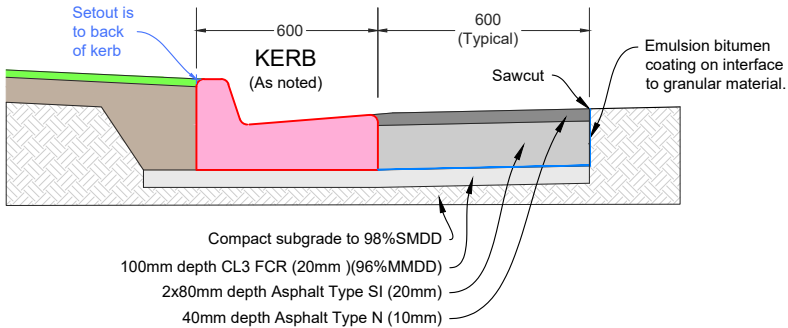
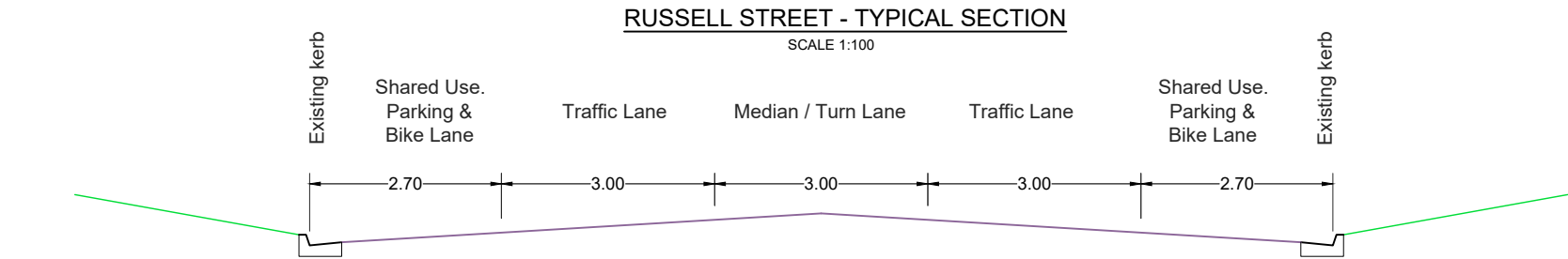
Where appropriate and prior to any works starting on site, delivery units must organise a AS1742.3 compliant traffic management plan, and have it approved by the relevant road authority.



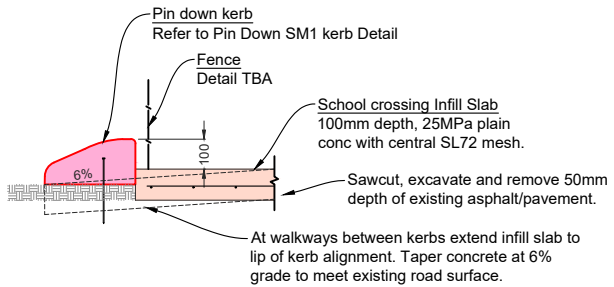
Install these signs back to back on each median island.



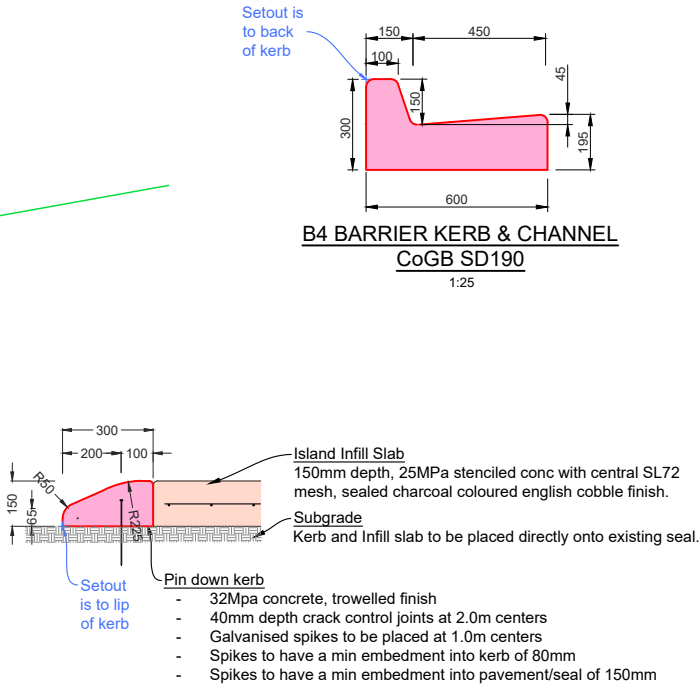
TYPICAL MEDIAN ISLAND DETAIL
1:100



TYPICAL KERB & PAVEMENT DETAIL
1:25



SCHOOL CROSSING ISLAND KERB DETAIL
1:25



PIN DOWN SM1 KERB DETAIL
1:25

B4 BARRIER KERB & CHANNEL
CoGB SD190
1:25

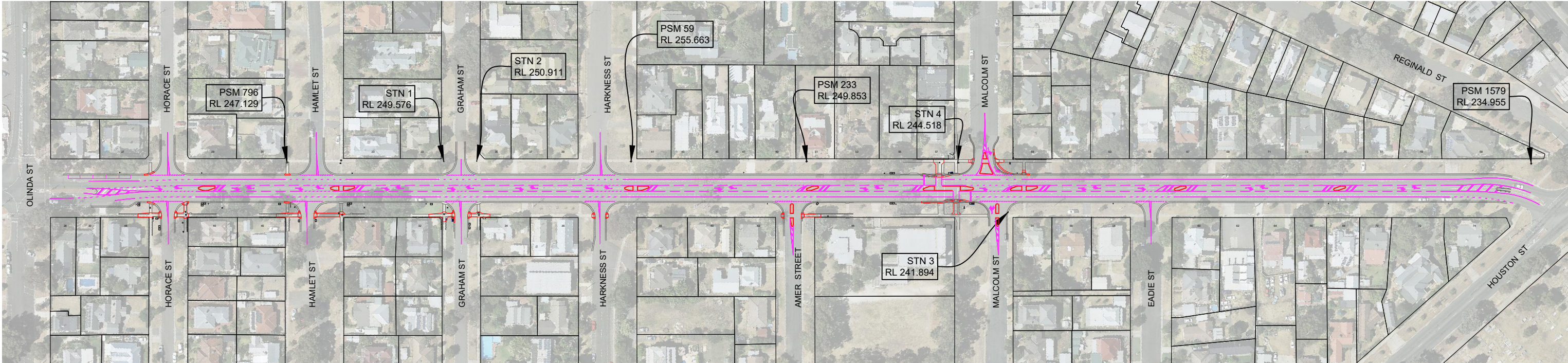
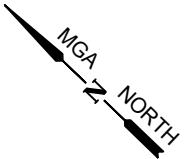


PROJECT DESIGN STATUS		
Surveyor	H.WHYTOCK	SEP. 2023
Designer	L. OLIVER	SEP. 2023
Draft Checked	A. SMITH	xx/xx/23
Tender Approved	N. SARTORI	xx/xx/23


PRELIMINARY DESIGN
DRAFT 3

PROJECT TITLE	
Location:	RUSSELL STREET
Suburb:	QUARRY HILL
Works:	BLACKSPOT SAFETY UPGRADE
Reference:	GB5109

SHEET DETAILS			
GENERAL NOTES & TYPICAL DETAILS		Sheet:	2 OF 11
		Scale:	- A3
		Plot Date:	11/10/2023 By:Leigh Oliver
AMENDMENTS			
Revision	Description	Approved by	Date
-	-	-	-
-	-	-	-
-	-	-	-



STATION DATA				
Point #	Description	Easting	Northing	Level
901	STN 1	257262.257	5926929.755	249.576
902	STN 2	257274.141	5926917.669	250.911
903	STN 3	257444.524	5926702.151	241.894
904	STN 4	257445.247	5926738.658	244.518
920	PSM 1579	257649.055	5926525.318	234.955
930	PSM 796	257206.166	5926987.765	247.129
940	PSM 59	257329.113	5926860.371	255.663
950	PSM 233	257391.669	5926795.163	249.853

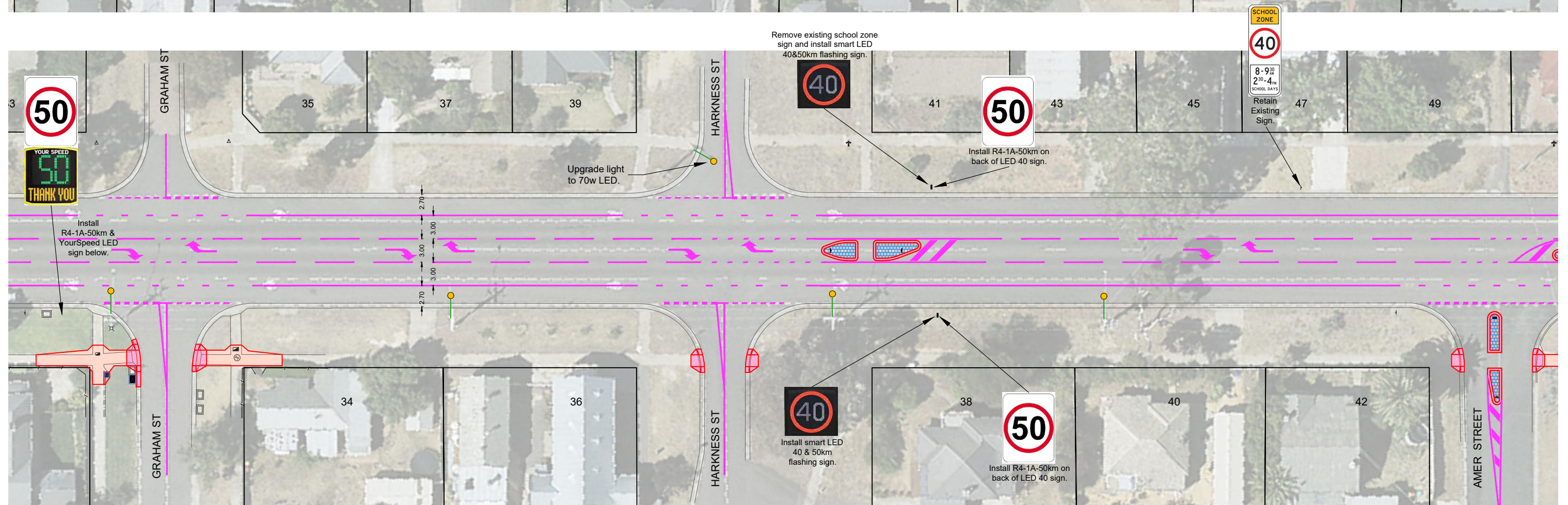
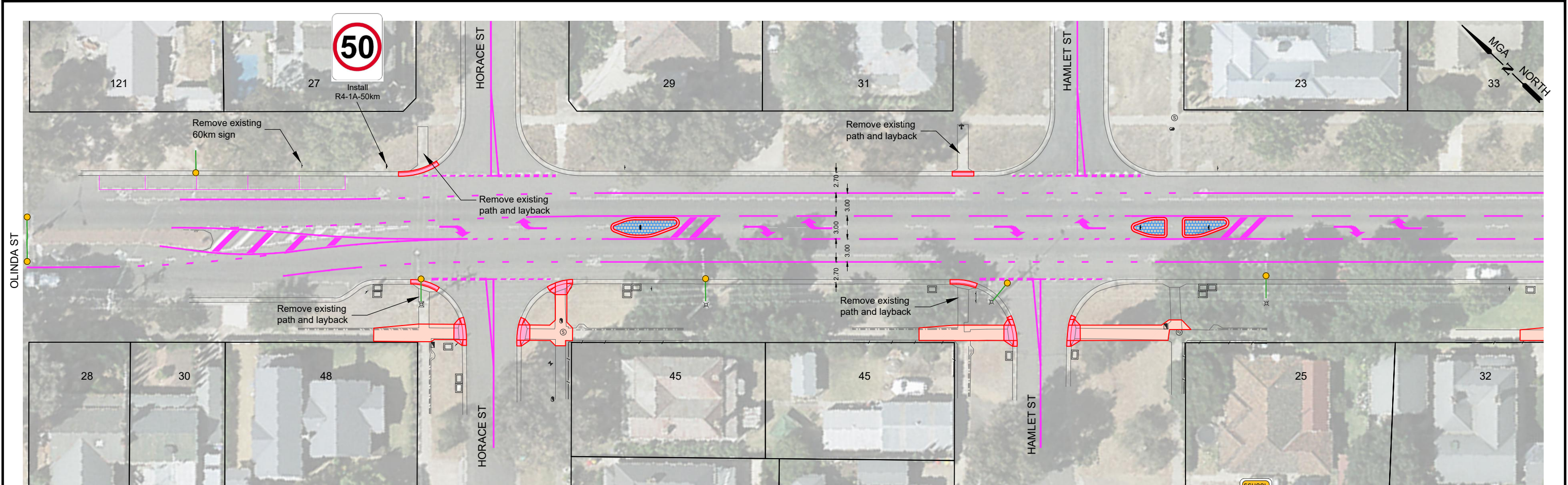



PROJECT DESIGN STATUS		
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Draft Checked	A. SMITH	xx/xx/23
Tender Approved	N. SARTORI	xx/xx/23

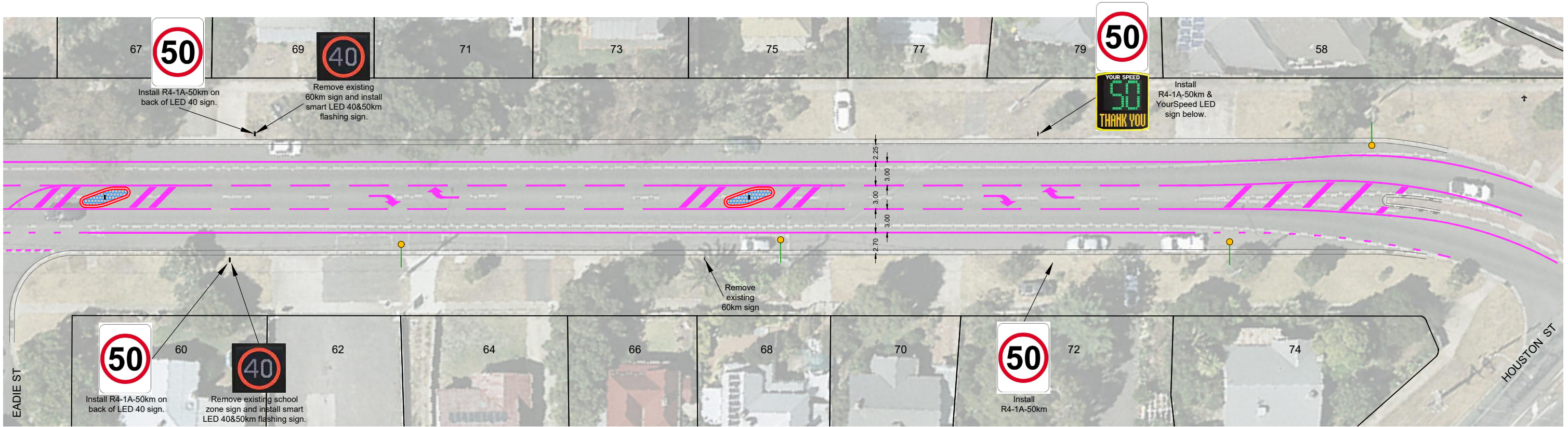
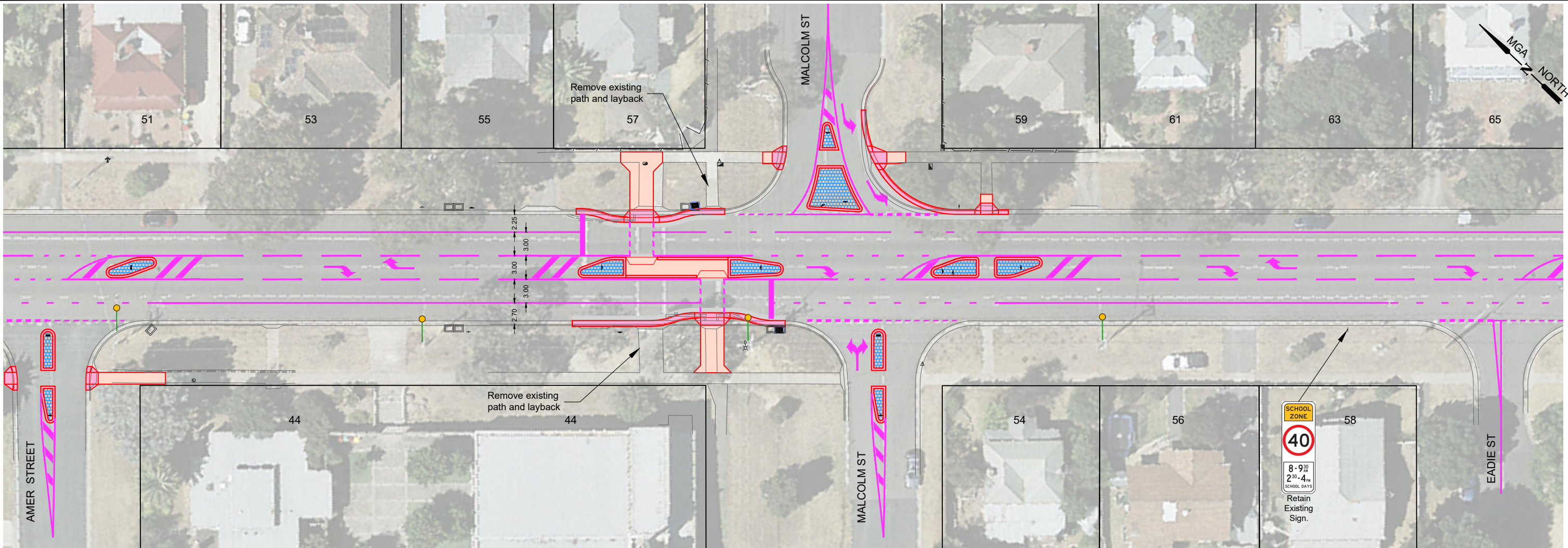
PRELIMINARY DESIGN
DRAFT 3

PROJECT TITLE	
Location:	RUSSELL STREET
Suburb:	QUARRY HILL
Works:	BLACKSPOT SAFETY UPGRADE
Reference:	GB5109


SHEET DETAILS			
OVERALL LAYOUT & CONTROL		Sheet:	3 OF 11
		Scale:	- A3
		Plot Date:11/10/2023 By:Leigh Oliver	
AMENDMENTS			
Revision	Description	Approved by	Date
-	-	-	-
-	-	-	-
-	-	-	-




LEGEND		PROJECT DESIGN STATUS		PROJECT TITLE		SHEET DETAILS			
<div>Existing Light</div> <div><div></div></div>	 <div>CITY OF GREATER BENDIGO</div>	Surveyor	H.WHYTOCK	SEP. 2023	Location: <div>RUSSELL STREET</div> <div>QUARRY HILL</div>	GENERAL LAYOUT, LIGHTING & SPEED ZONE SIGNAGE	Sheet: 4 OF 11		
		Designer	L. OLIVER	SEP. 2023			Scale: 1:500	A3	
		Draft Checked	A. SMITH	xx/xx/23			Plot Date:11/10/2023 By:Leigh Oliver		
		Tender Approved	N. SARTORI	xx/xx/23					
		<div>PRELIMINARY DESIGN DRAFT 3</div>		Works: BLACKSPOT SAFETY UPGRADE Reference: GB5109		AMENDMENTS			
						Revision	Description	Approved by	Date
						-	-	-	-
						-	-	-	-
						-	-	-	-
						-	-	-	-



LEGEND

Existing Light 



CITY OF GREATER
BENDIGO

PROJECT DESIGN STATUS

Surveyor	H.WHYTOCK	SEP. 2023
Designer	L. OLIVER	SEP. 2023
Draft Checked	A. SMITH	xx/xx/23
Tender Approved	N. SARTORI	xx/xx/23

PRELIMINARY DESIGN
DRAFT 3

PROJECT TITLE

Location: RUSSELL STREET
Suburb: QUARRY HILL
Works: BLACKSPOT SAFETY UPGRADE
Reference: GB5109

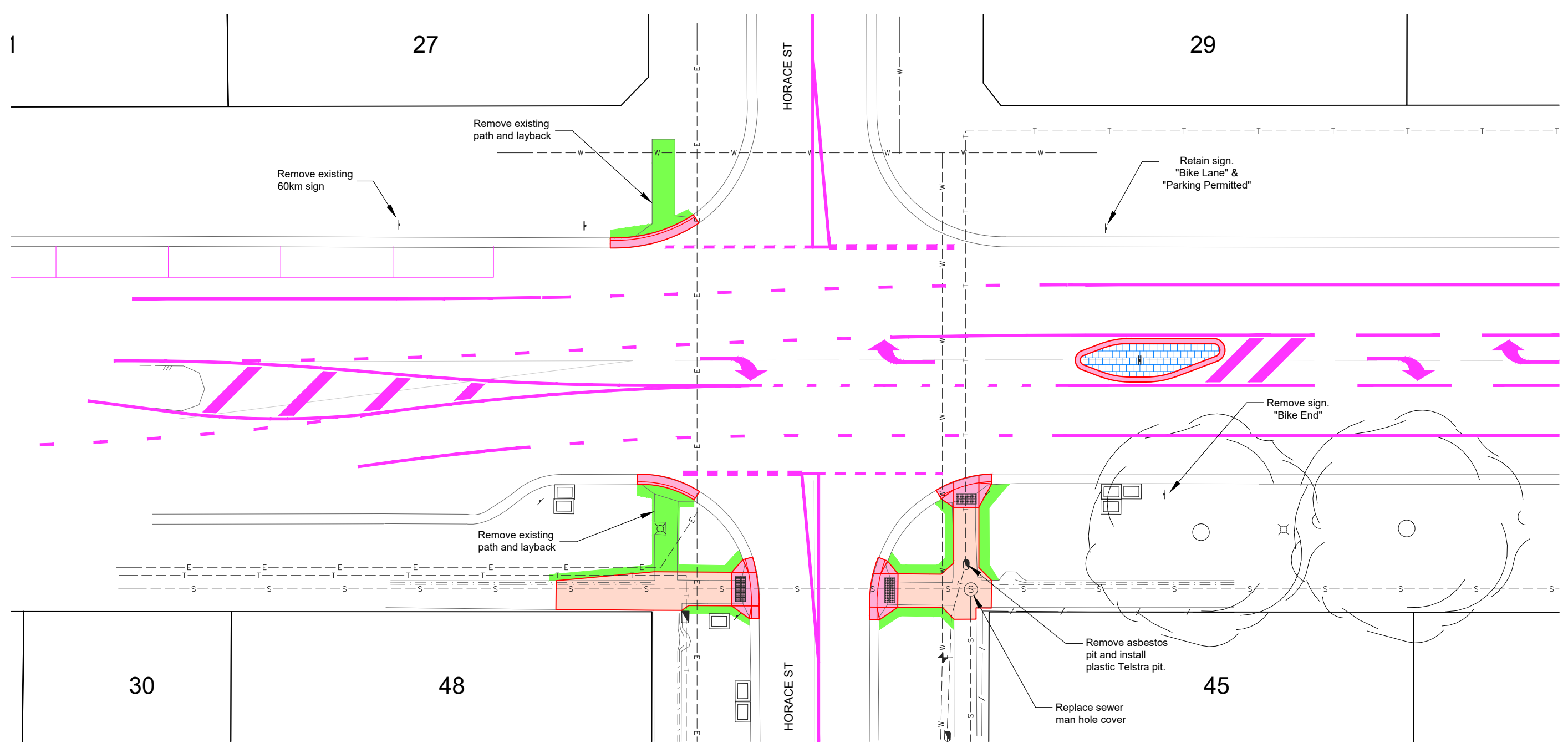
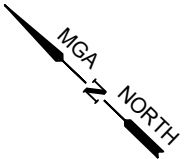
SHEET DETAILS

GENERAL LAYOUT,
LIGHTING & SPEED
ZONE SIGNAGE

Sheet: 5 OF 11
Scale: 1:500
Plot Date: 11/10/2023 By: Leigh Oliver

AMENDMENTS

Revision	Description	Approved by	Date
-	-	-	-
-	-	-	-
-	-	-	-



LEGEND

Concrete Kerb area: Normal plain
Kerb per IDM SD100 & CoGB SD190,191,192

Concrete Footpath area: Normal plain
Footpath as per IDM SD 205 & SD210


Concrete slab area: Stenciled infill
Slab as per IDM SD205 & 210
Stencil: Cobble in Charcoal, clear sealant

Pavement Reinstatement:
As per pavement detail sheet 2.

Landscape work: Instant turf
(Refer: Typical details pg 2)

Landscape work: topsoil and seed
(Refer: Typical details pg 2)

Landscape work: Mulched areas
(Refer: Typical details pg 2)



CITY OF GREATER
BENDIGO

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PRELIMINARY DESIGN
DRAFT 3

PROJECT TITLE

Location: RUSSELL STREET
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Reference: GB5109

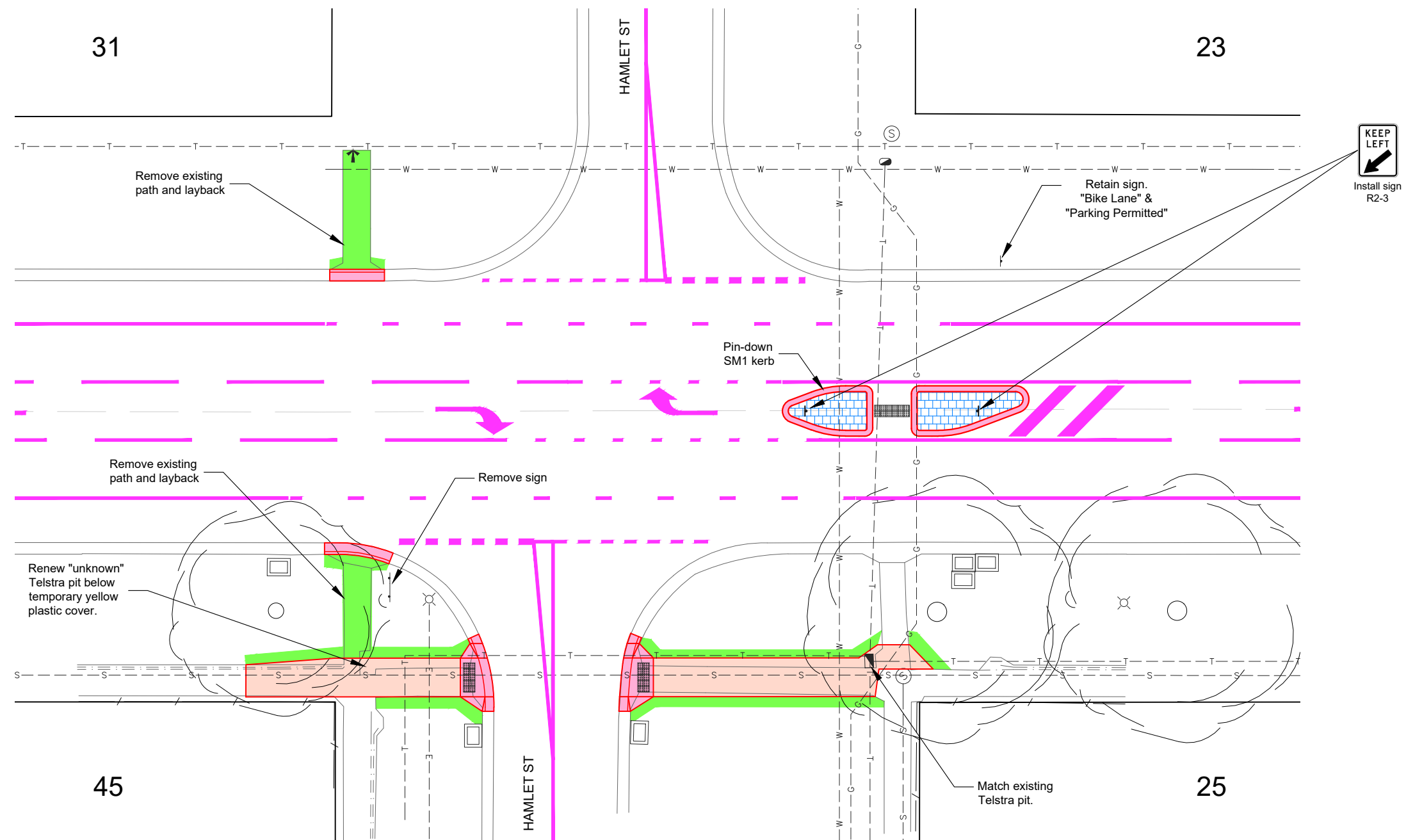
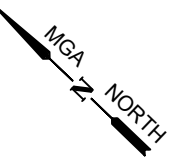
SHEET DETAILS

DETAIL LAYOUT








Sheet: 6 OF 11
Scale: 1:250
A3
Plot Date:11/10/2023 By:Leigh Oliver

AMENDMENTS

Revision	Description	Approved by	Date
-	-	-	-
-	-	-	-
-	-	-	-



LEGEND

 Concrete Kerb area: Normal plain Kerb per IDM SD100 & CoGB SD190,191,192	 Concrete Footpath area: Normal plain Footpath as per IDM SD 205 & SD210	 Landscape work: Instant turf (Refer: Typical details pg 2)
 Concrete slab area: Stenciled infill Slab as per IDM SD205 & 210 Stencil: Cobble in Charcoal, clear sealant	 Landscape work: topsoil and seed (Refer: Typical details pg 2)	 Landscape work: Mulched areas (Refer: Typical details pg 2)
 Pavement Reinstatement: As per pavement detail sheet 2.		



CITY OF GREATER
BENDIGO

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Tender Approved	N. SARTORI	xx/xx/23

**PRELIMINARY DESIGN
DRAFT 3**

PROJECT TITLE

Location: **RUSSELL STREET**
Suburb: **QUARRY HILL**
Works: **BLACKSPOT SAFETY UPGRADE**
Reference: **GB5109**

SHEET DETAILS

DETAIL LAYOUT

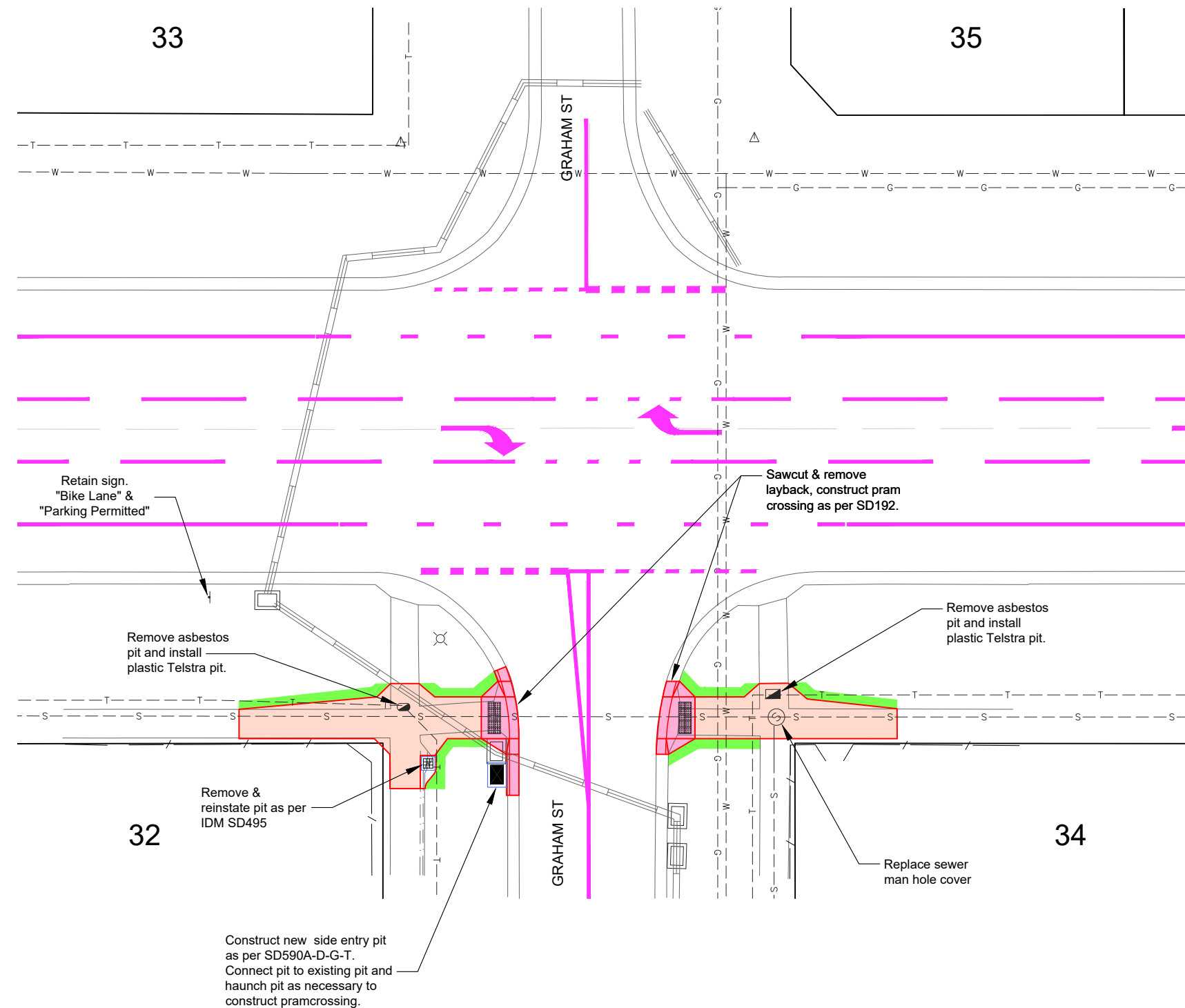
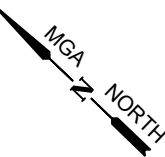
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Scale: **1:250** **A3**

Plot Date:11/10/2023 By:Leigh Oliver

AMENDMENTS

Revision	Description	Approved by	Date
-	-	-	-
-	-	-	-
-	-	-	-



LEGEND

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Kerb per IDM SD100 & CoGB SD190,191,192

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As per pavement detail sheet 2.

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Designer	L. OLIVER	SEP. 2023
Draft Checked	A. SMITH	xx/xx/23
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PRELIMINARY DESIGN
DRAFT 3

PROJECT TITLE

Location: RUSSELL STREET
Suburb: QUARRY HILL
Works: BLACKSPOT SAFETY UPGRADE
Reference: GB5109

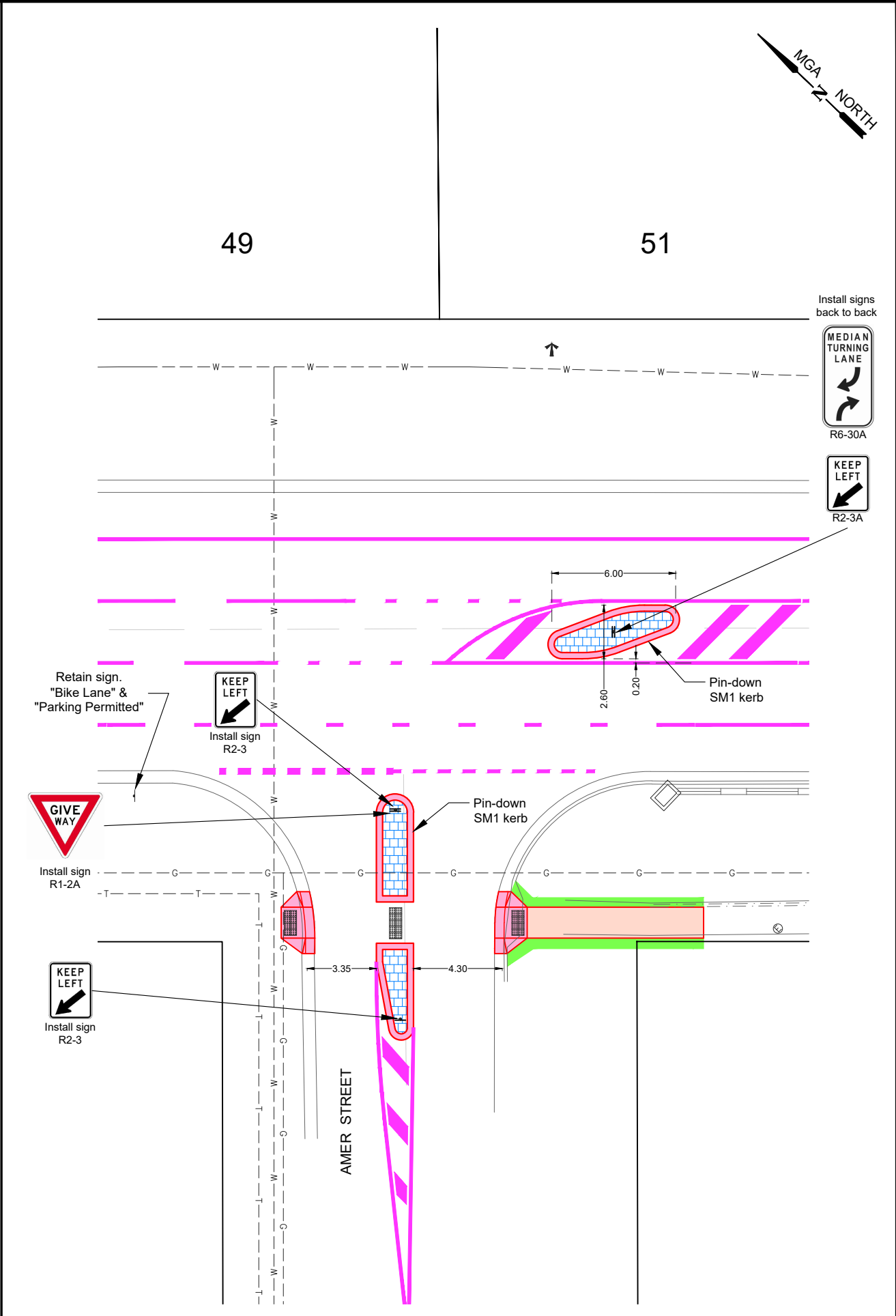
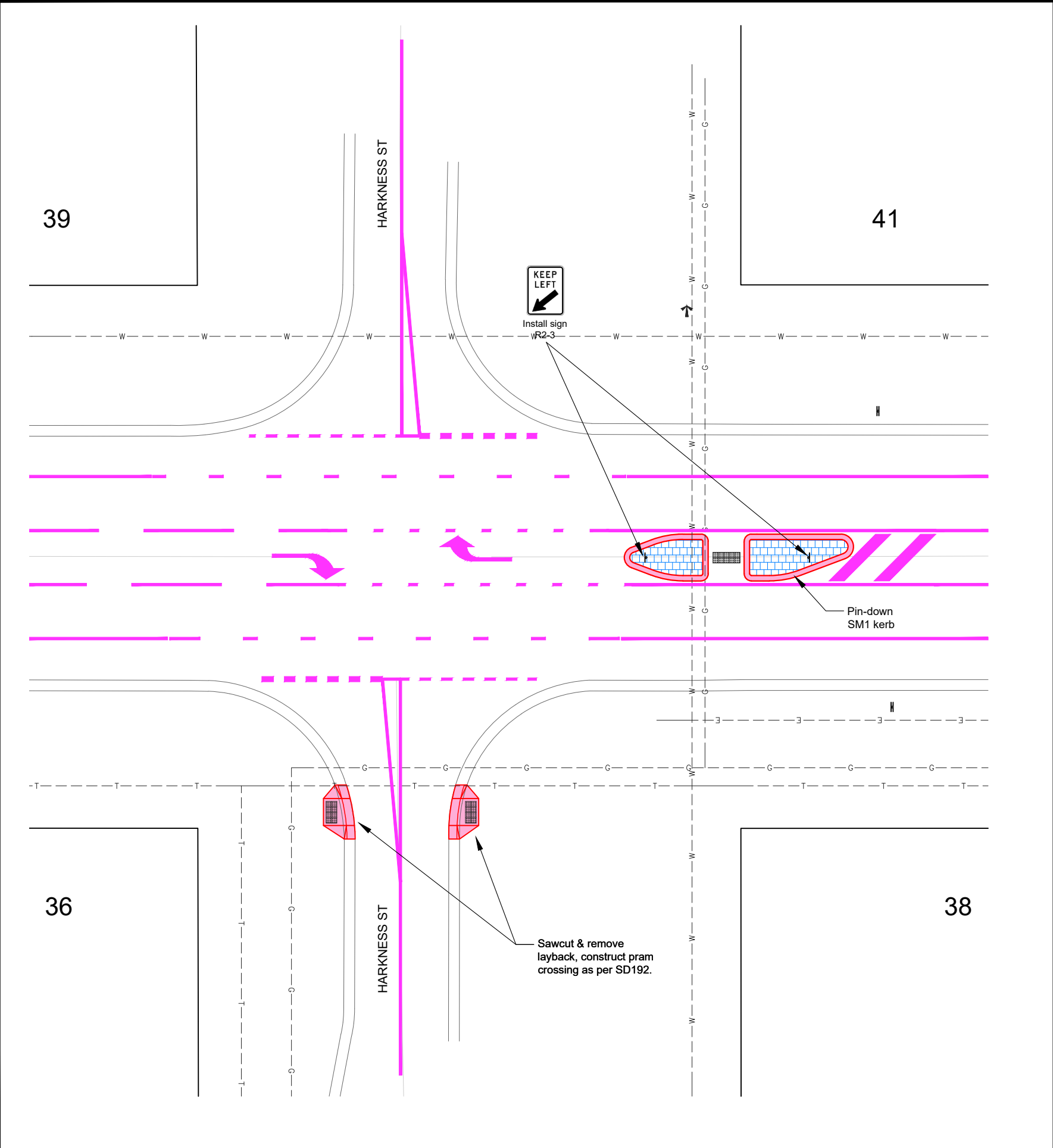
SHEET DETAILS

Sheet: 8 OF 11
Scale: 1:250
Plot Date: 11/10/2023 By: Leigh Oliver

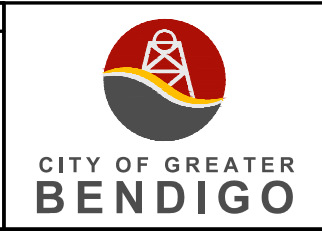
DETAIL LAYOUT

AMENDMENTS

Revision	Description	Approved by	Date
-	-	-	-
-	-	-	-
-	-	-	-



LEGEND			
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	Concrete slab area: Stenciled infill Slab as per IDM SD205 & 210 Stencil: Cobble in Charcoal, clear sealant		Landscape work: Instant turf (Refer: Typical details pg 2)
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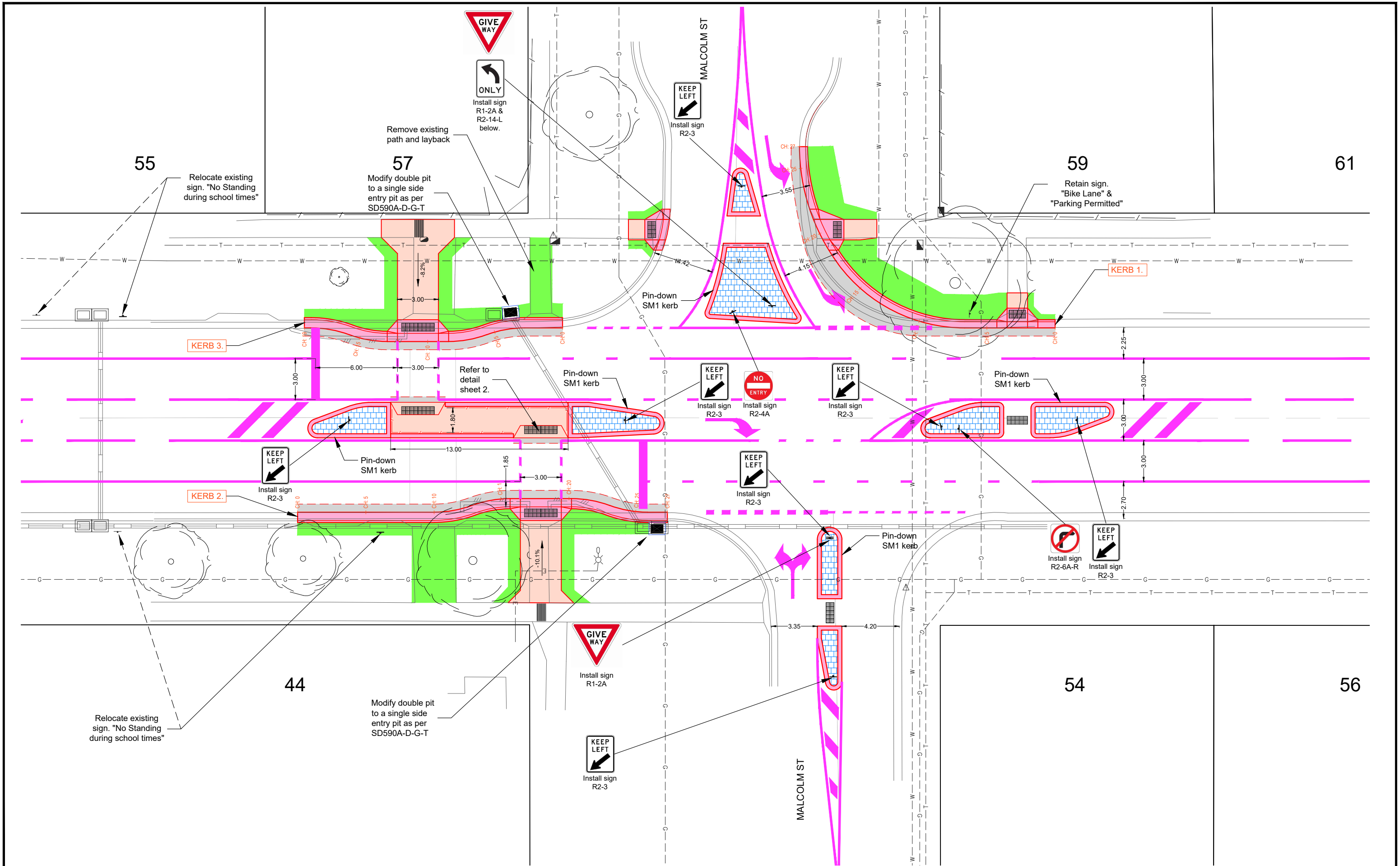


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Draft Checked	A. SMITH	xx/xx/23
Tender Approved	N. SARTORI	xx/xx/23

PRELIMINARY DESIGN
DRAFT 3

PROJECT TITLE	
Location:	RUSSELL STREET
Suburb:	QUARRY HILL
Works:	BLACKSPOT SAFETY UPGRADE
Reference:	GB5109

SHEET DETAILS			
DETAIL LAYOUT		Sheet:	9 OF 11
		Scale:	1:250
		Plot Date:	11/10/2023 By: Leigh Oliver
AMENDMENTS			
Revision	Description	Approved by	Date
-	-	-	-
-	-	-	-
-	-	-	-



LEGEND			
	Concrete Kerb area: Normal plain Kerb per IDM SD100 & CoGB SD190,191,192		Concrete Footpath area: Normal plain Footpath as per IDM SD 205 & SD210
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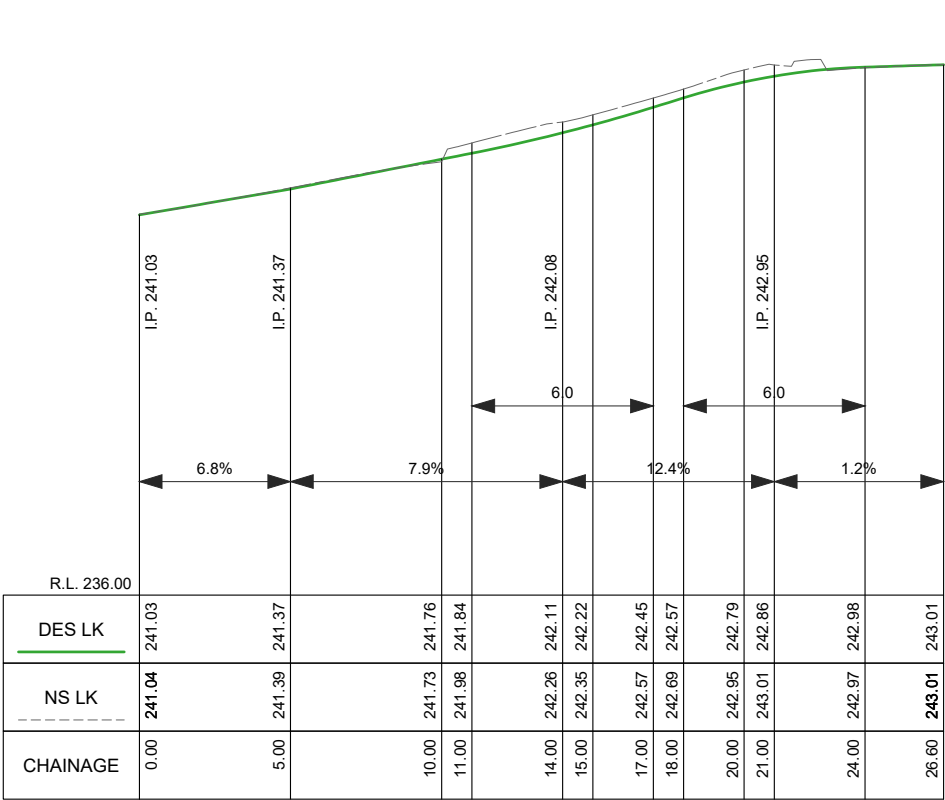


PROJECT DESIGN STATUS		
Surveyor	H.WHYTOCK	SEP. 2023
Designer	L. OLIVER	SEP. 2023
Draft Checked	A. SMITH	xx/xx/23
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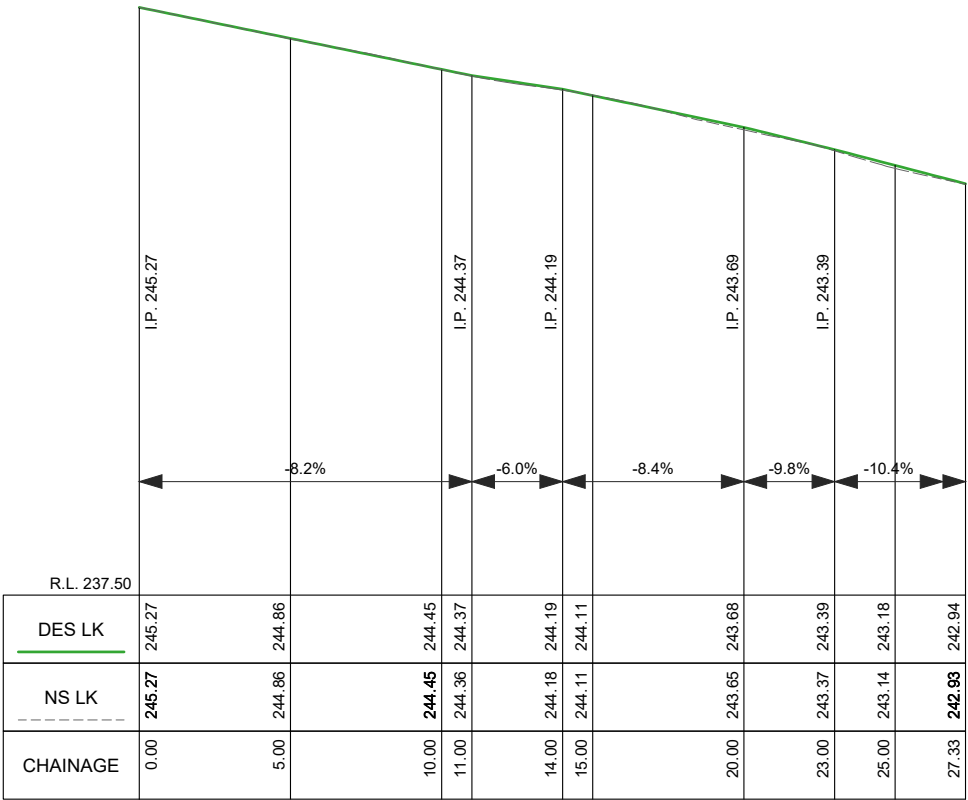
PRELIMINARY DESIGN
DRAFT 3

PROJECT TITLE	
Location:	RUSSELL STREET
Suburb:	QUARRY HILL
Works:	BLACKSPOT SAFETY UPGRADE
Reference:	GB5109

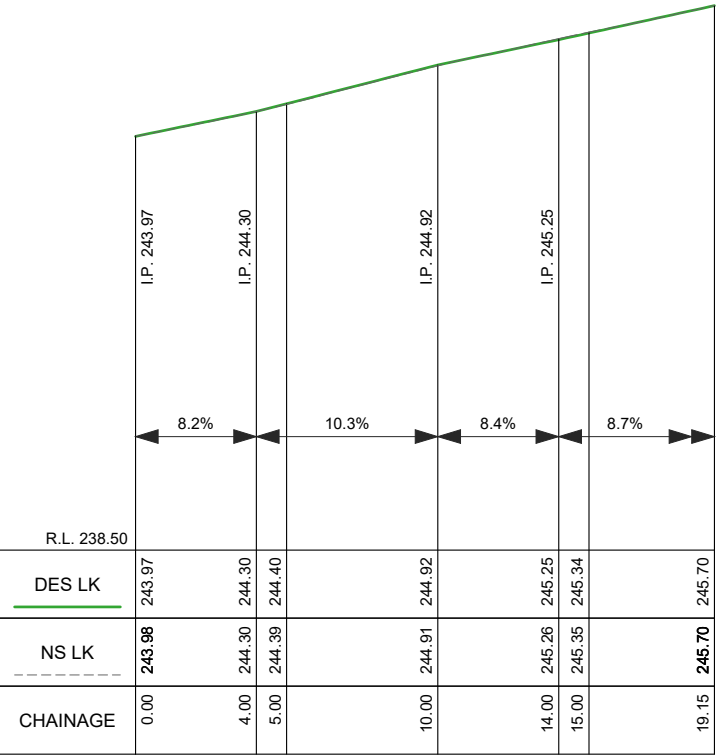
SHEET DETAILS			
DETAIL LAYOUT		Sheet:	10 OF 11
		Scale:	1:250
		Plot Date:	11/10/2023 By: Leigh Oliver
AMENDMENTS			
Revision	Description	Approved by	Date
-	-	-	-
-	-	-	-
-	-	-	-



KERB 1 LONGITUDINAL SECTION CH 0.000 To 26.600
SCALES: H 1:250 V 1:100 (A3)



KERB 2 LONGITUDINAL SECTION CH 0.000 To 27.329
SCALES: H 1:250 V 1:100 (A3)



KERB 3 LONGITUDINAL SECTION CH 0.000 To 19.149
SCALES: H 1:250 V 1:100 (A3)



PROJECT DESIGN STATUS

Surveyor	H.WHYTOCK	SEP. 2023
Designer	L. OLIVER	SEP. 2023
Draft Checked	A. SMITH	xx/xx/23
Tender Approved	N. SARTORI	xx/xx/23

PRELIMINARY DESIGN
DRAFT 3

PROJECT TITLE

Location: RUSSELL STREET

Suburb: QUARRY HILL

Works: BLACKSPOT SAFETY UPGRADE

Reference: GB5109

SHEET DETAILS

KERB PROFILES

Sheet: 11 OF 11

Scale: AS SHOWN A3

Plot Date:11/10/2023 By:Leigh Oliver

AMENDMENTS

Revision	Description	Approved by	Date
-	-	-	-
-	-	-	-
-	-	-	-