





**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 set out 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. contractors 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**

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

PROJECT PLANNING REQUIREMENTS			
Item	Required	Approved	Comments
Vegetation	Yes	No	Arborist to assess prior to works
DTP - Vicroads	Yes	No	MOA required
CMA	No	No	-
Planning Permit	No	No	-
Land Acquisition	No	No	-
CHMP	No	No	-
Other	No	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:

1. 'CoGB SD' are sourced from the City of Greater Bendigo  
<https://www.bendigo.vic.gov.au/Services/Roads-and-Drainage/Roads/Construction-standards>
2. 'IDM SD' are sourced from the Infrastructure Design Manual  
<https://www.designmanual.com.au/>
3. '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

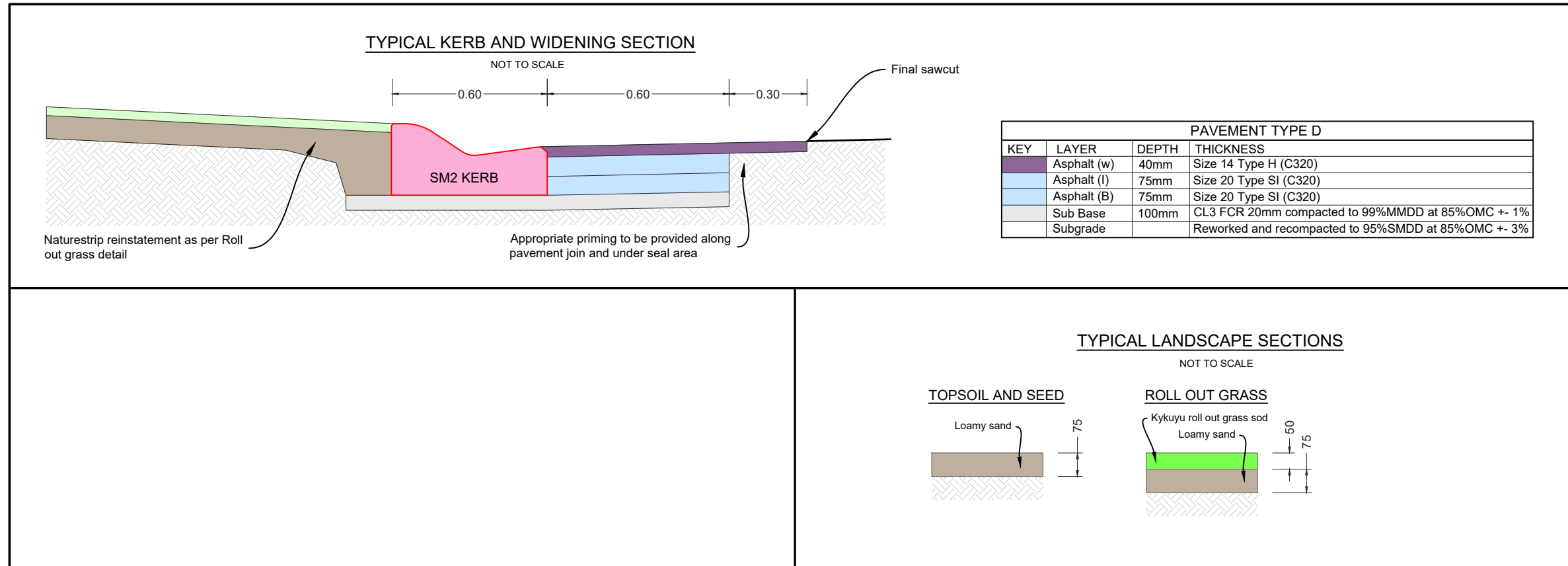
**SITE ENVIRONMENTAL MANAGEMENT PLAN**

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.



PAVEMENT TYPE D			
KEY	LAYER	DEPTH	THICKNESS
	Asphalt (w)	40mm	Size 14 Type H (C320)
	Asphalt (I)	75mm	Size 20 Type SI (C320)
	Asphalt (B)	75mm	Size 20 Type SI (C320)
	Sub Base	100mm	CL3 FCR 20mm compacted to 99%MMDD at 85%OMC +/- 1%
	Subgrade		Reworked and recompacted to 95%SMDD at 85%OMC +/- 3%

**DIAL 1100 BEFORE YOU DIG**

**IMPORTANT!**  
The location of underground services have been derived from available information, however accuracy cannot be guaranteed. All existing service information should therefore be treated as indicative only, and service locations must be arranged prior to commencement of any excavation. The contractor will be held responsible for any damage caused to underground services.



**PROJECT DESIGN STATUS**

Surveyor:	H. Whytock	19/04/2023
Designer:	A. Smith	24/04/2023
Draft Checked:	L. Oliver	xx/xx/23
Tender Approved:	N. Sartori	xx/xx/23

**PRELIMINARY DESIGN DRAFT 4**

**PROJECT DETAILS**

Location: Vine St / Wattle St  
 Suburb: Bendigo  
 Works: Wombat Crossings  
 GB No: GB5198

**SHEET DETAILS**

Sheet number: 2 of 10  
 Plan Scale: -  
 Plotted: 20/06/2023 By: Andrew Smith

GENERAL NOTES		SHEET REVISIONS AFTER TENDER	
Revision	Description	Approved by	Date
-	-	-	-
-	-	-	-
-	-	-	-



STATION DATA				
Point #	Description	Easting	Northing	Level
901	STN 1	256652.597	5927981.969	217.213
902	STN 2	256692.548	5927914.193	217.518
903	STN 3	256665.248	5927930.935	217.610
904	STN 4	256665.802	5927932.161	217.629
905	STN 5	256662.220	5927941.496	217.504
906	STN 6	256661.210	5927941.433	217.463
907	STN 7	256657.945	5927946.806	217.141
908	STN 8	256662.594	5927959.113	217.024
909	STN 9	256667.487	5927945.667	218.163
912	STN 12	256608.809	5927898.868	218.021
913	STN 13	256590.782	5927872.063	218.386



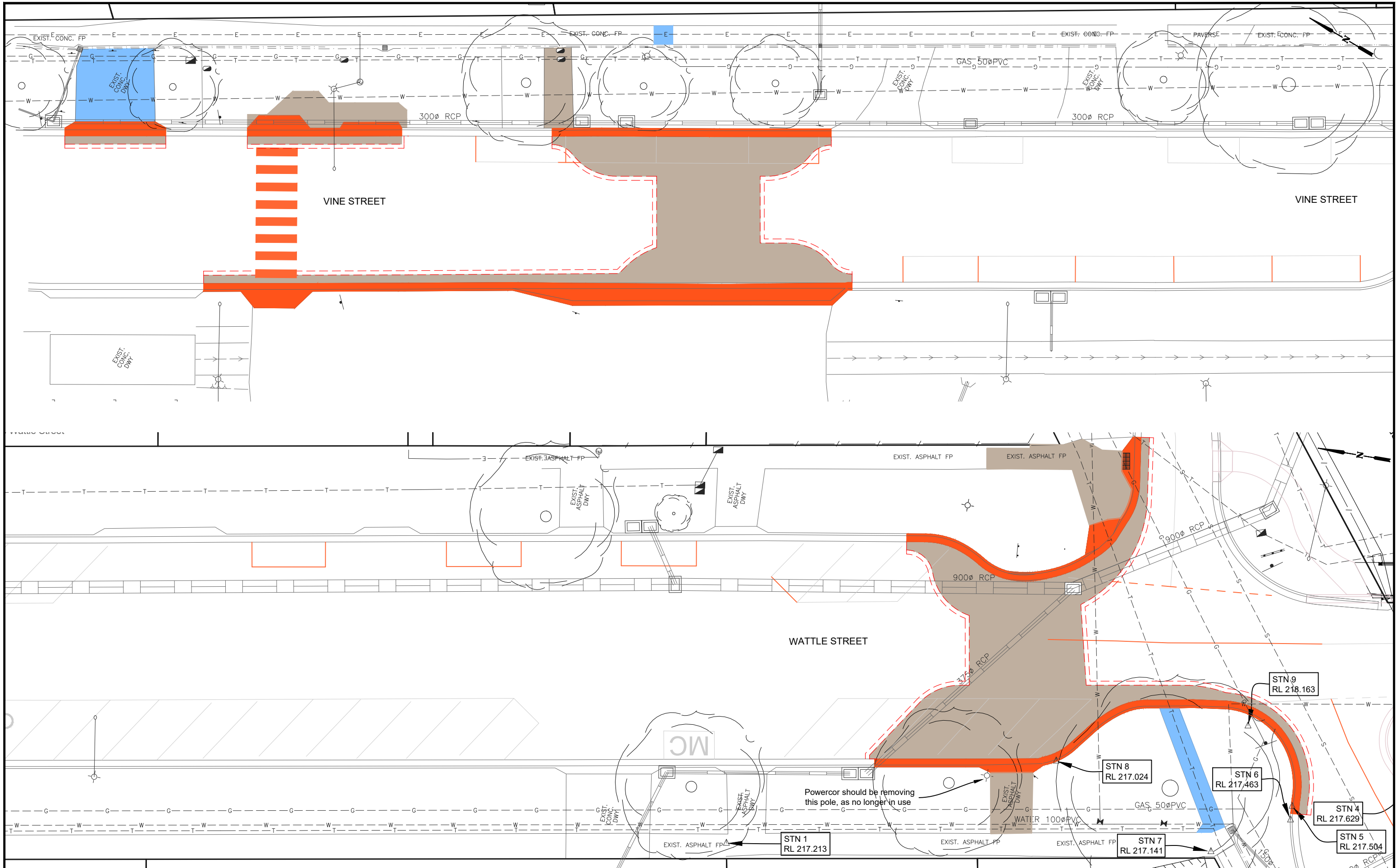
**CITY OF GREATER BENDIGO**

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Designer:	A. Smith	24/04/2023
Draft Checked:	L. Oliver	xx/xx/23
Tender Approved:	N. Sartori	xx/xx/23

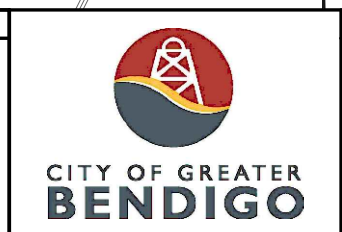
**PRELIMINARY DESIGN DRAFT 4**

PROJECT DETAILS	
Location:	Vine St / Wattle St
Suburb:	Bendigo
Works:	Wombat Crossings
GB No:	GB5198

SHEET DETAILS			
<b>OVERALL LAYOUT &amp; CONTROL</b>			Sheet number: <b>3 of 10</b>
			Plan Scale: 1:1000 <b>A3</b>
Plotted: 20/06/2023 By: Andrew Smith			
SHEET REVISIONS AFTER TENDER			
Revision	Description	Approved by	Date
-	-	-	-
-	-	-	-
-	-	-	-



LEGEND		
	Removal: Pavement	
	Removal: Kerb	
	Removal: Concrete	
	Removal: Linemarking	
	Removal: Sawcut	
	Removal: Tree	
	Removal: Pipe	



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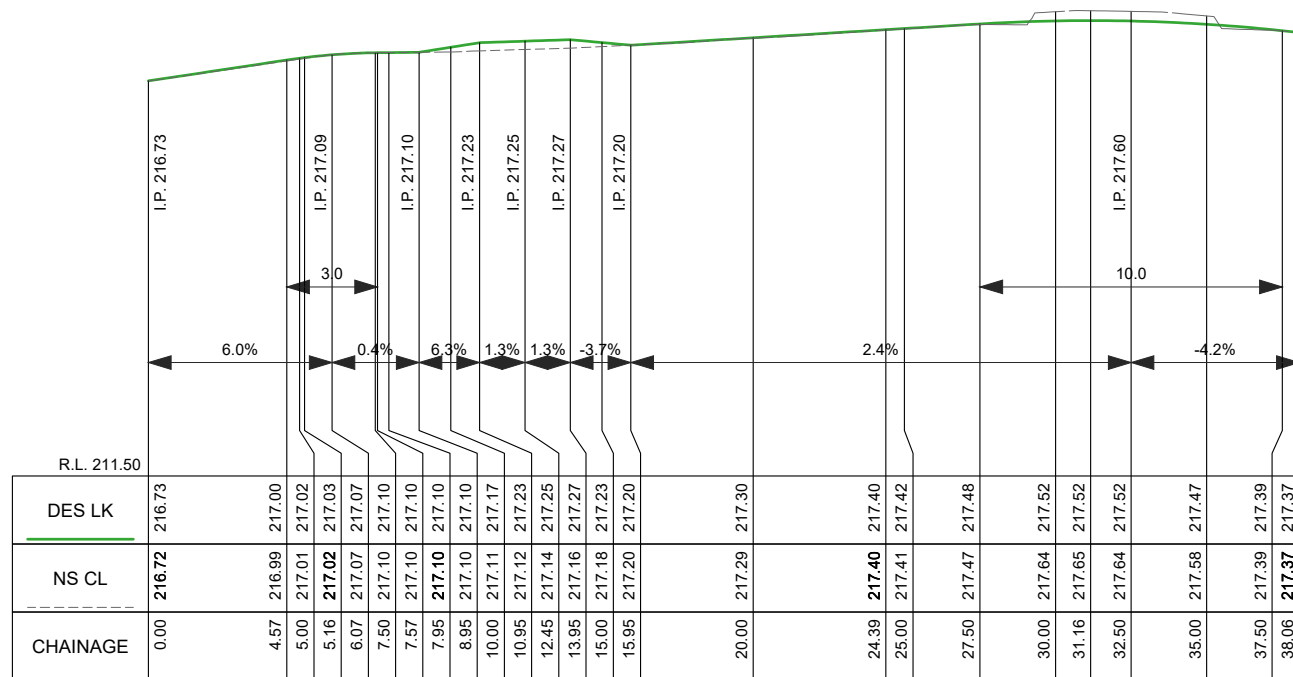
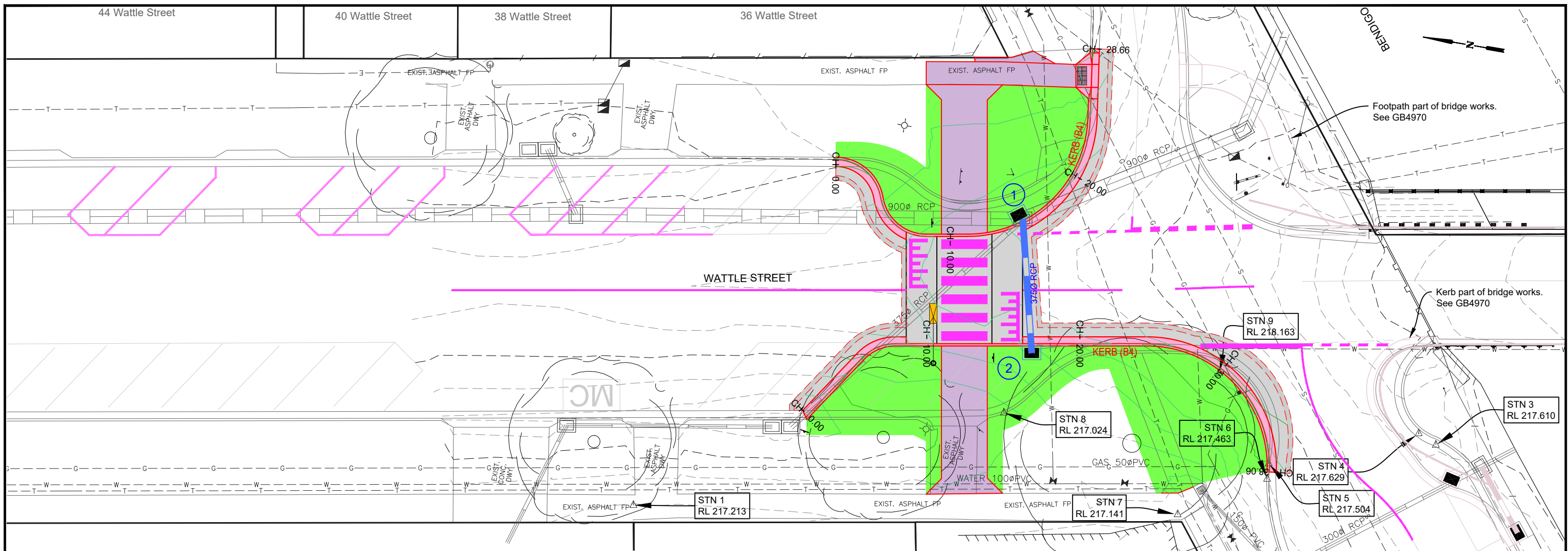
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Location:	Vine St / Wattle St
Suburb:	Bendigo
Works:	Wombat Crossings
GB No:	GB5198

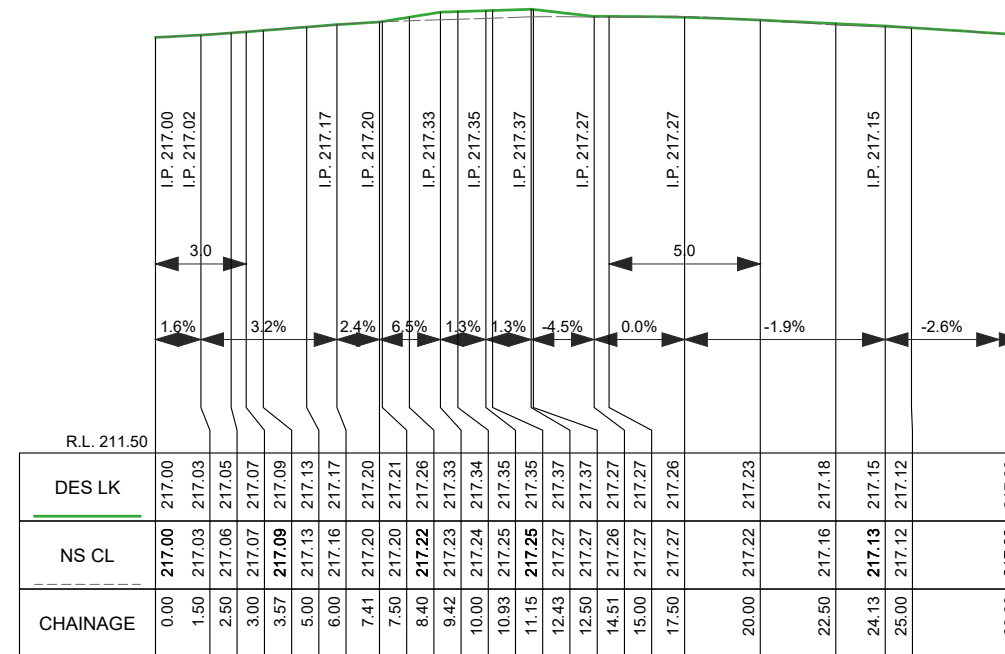
SHEET DETAILS			
DEMOLITION PLAN		Sheet number:	4 of 10
		Plan Scale:	1:250
		Plotted:	20/06/2023 By: Andrew Smith
SHEET REVISIONS AFTER TENDER			
Revision	Description	Approved by	Date
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-	-	-	-
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LK-W-W LONGITUDINAL SECTION CH 0.000 To 38.062  
 SCALES: H 1:250 V 1:100 (A3)



LK-W-E LONGITUDINAL SECTION CH 0.000 To 28.659  
 SCALES: H 1:250 V 1:100 (A3)

LEGEND

- DESIGN CONTOURS - Levels to AHD (0.10m interval)
- EXISTING CONTOURS - Levels to AHD (0.10m interval)
- Proposed Street Tree (Refer: Typical details pg 2)
- DESIGN SEAL: (Refer: Typical road pavement detail.)
- Concrete Kerb area: Normal plain Kerb as noted and as per: IDM SD100, CoGB SD190,191,192
- Concrete Footpath area: Normal plain Footpath as per IDM SD 205 & SD210
- Concrete Driveway area: Normal plain Dwy as per IDM SD240
- Concrete Driveway area: Industrial plain Dwy as per IDM SD250
- Concrete Footpath area: Normal black Footpath as per IDM SD 205 & SD210
- 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)



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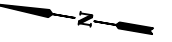
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PROJECT DETAILS

Location: Vine St / Wattle St  
 Suburb: Bendigo  
 Works: Wombat Crossings  
 GB No: GB5198

SHEET DETAILS

DETAIL LAYOUT		Sheet number: 6 of 10	
		Plan Scale: 1:250 A3	
		Plotted: 20/06/2023 By: Andrew Smith	
SHEET REVISIONS AFTER TENDER		Approved by	Date
Revision	Description	-	-
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-	-	-	-
-	-	-	-



WATTLE STREET

Black out old lines

Bring up to standard,  
including plastic bollard

Repaint existing bays

Girton no longer require this driveway

Girton no longer require this driveway

LEGEND

- Design Linemarking - White
- Design Linemarking - Yellow
- Design Bicycle Symbol
- Design Sign
- Existing Sign
- Design RRPM - White
- Design RRPM - Red
- Design RRPM - Yellow

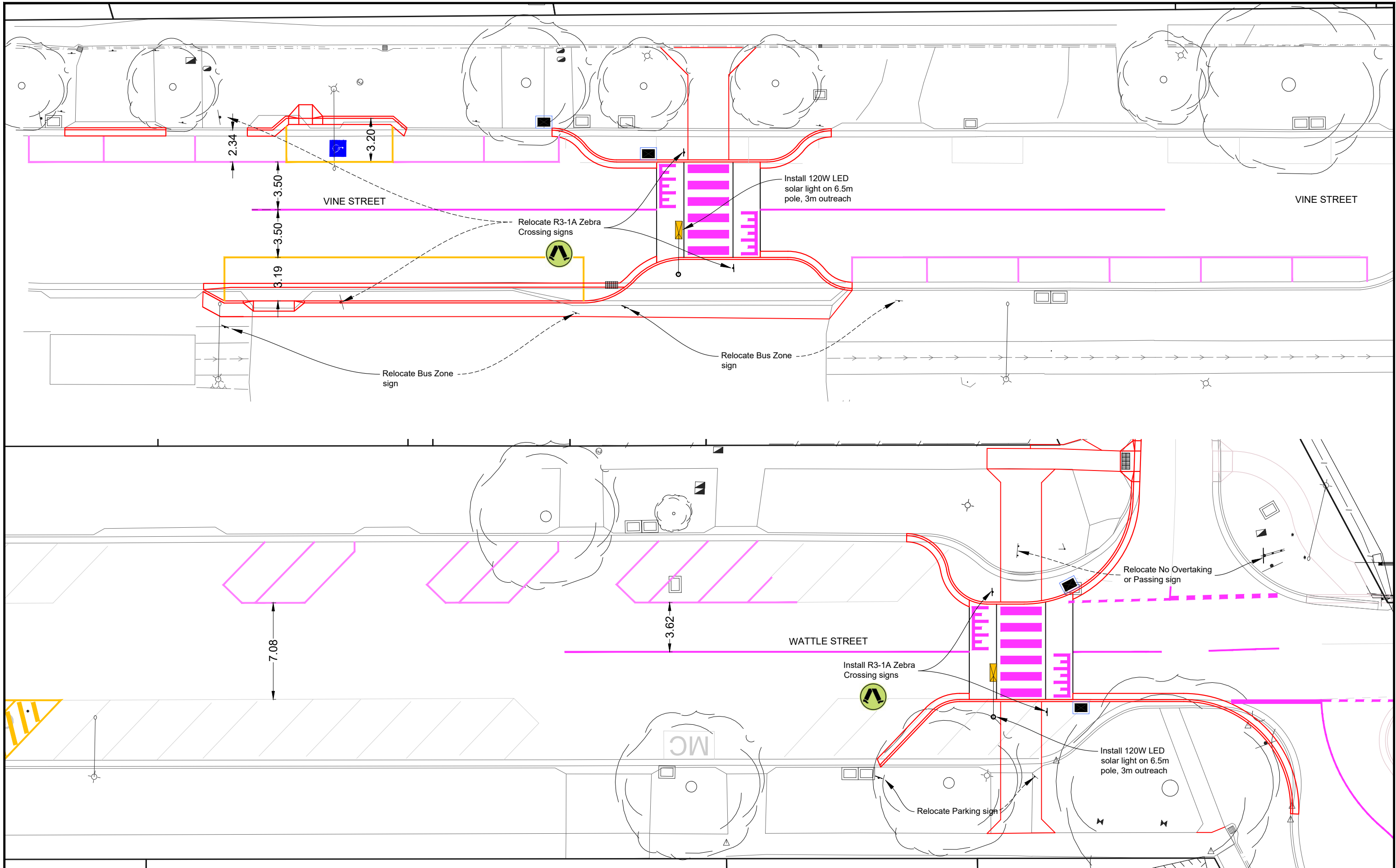


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PRELIMINARY DESIGN  
DRAFT 4

PROJECT DETAILS	
Location:	Vine St / Wattle St
Suburb:	Bendigo
Works:	Wombat Crossings
GB No:	GB5198

SHEET DETAILS			
DETAIL LAYOUT		Sheet number:	7 of 10
		Plan Scale:	1:250
		Plotted:	20/06/2023 By: Andrew Smith
SHEET REVISIONS AFTER TENDER			
Revision	Description	Approved by	Date
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-	-	-	-
-	-	-	-



LEGEND	
	Design Linemarking - White
	Design Linemarking - Yellow
	Design Bicycle Symbol
	Design Sign
	Existing Sign
	Design RRPM - White
	Design RRPM - Red
	Design RRPM - Yellow



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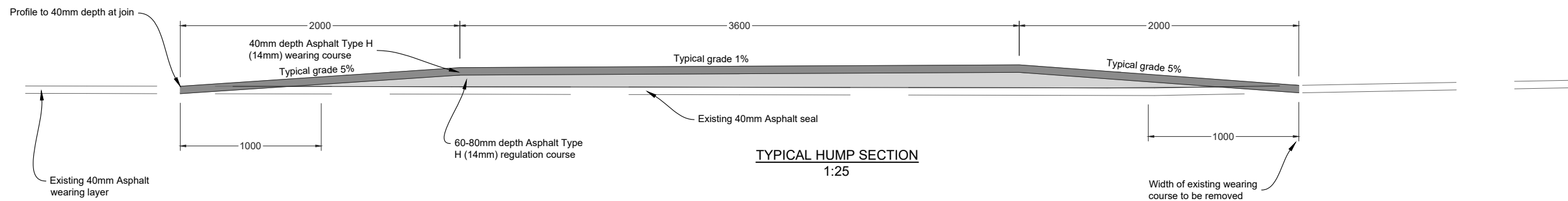
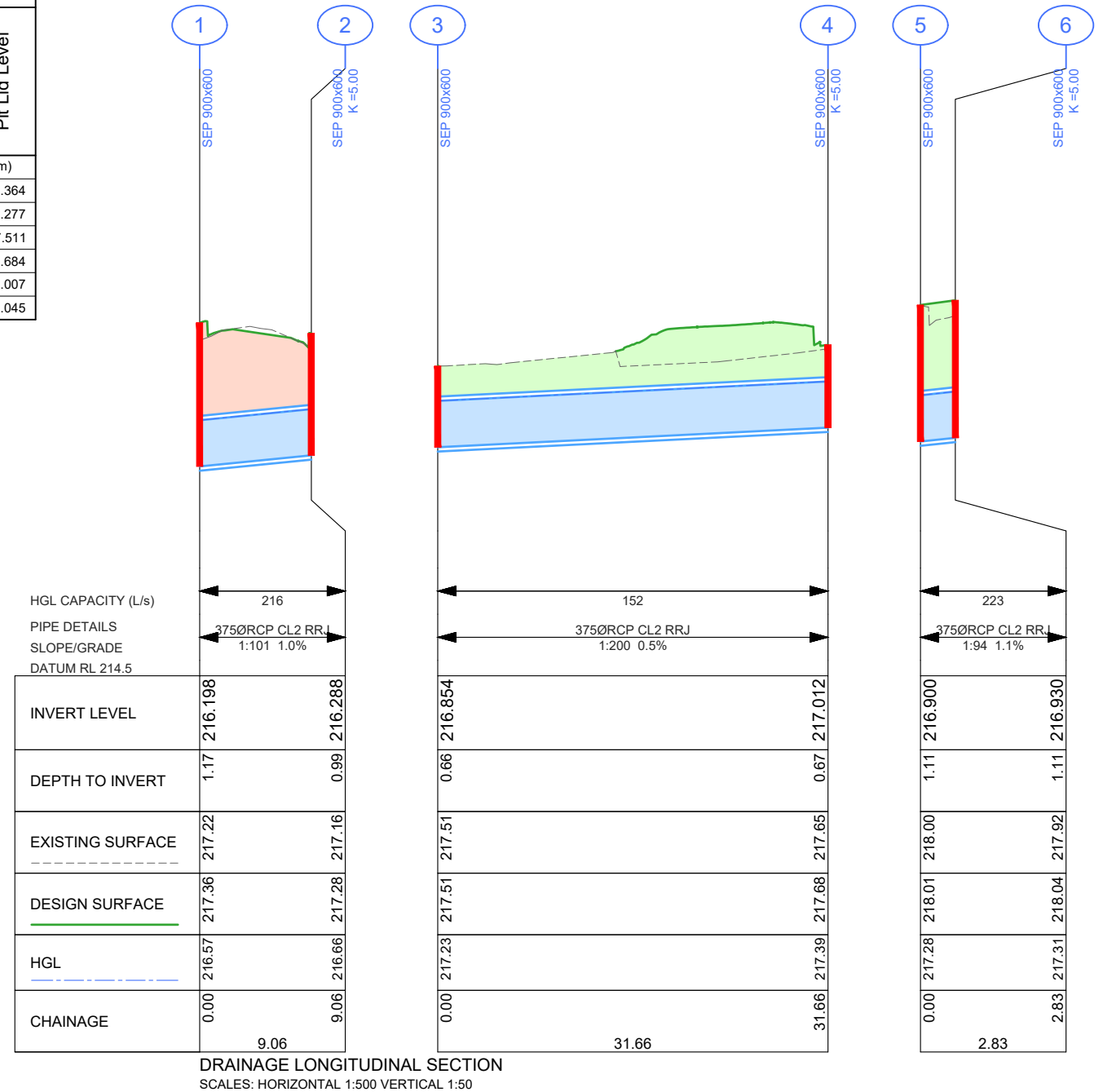
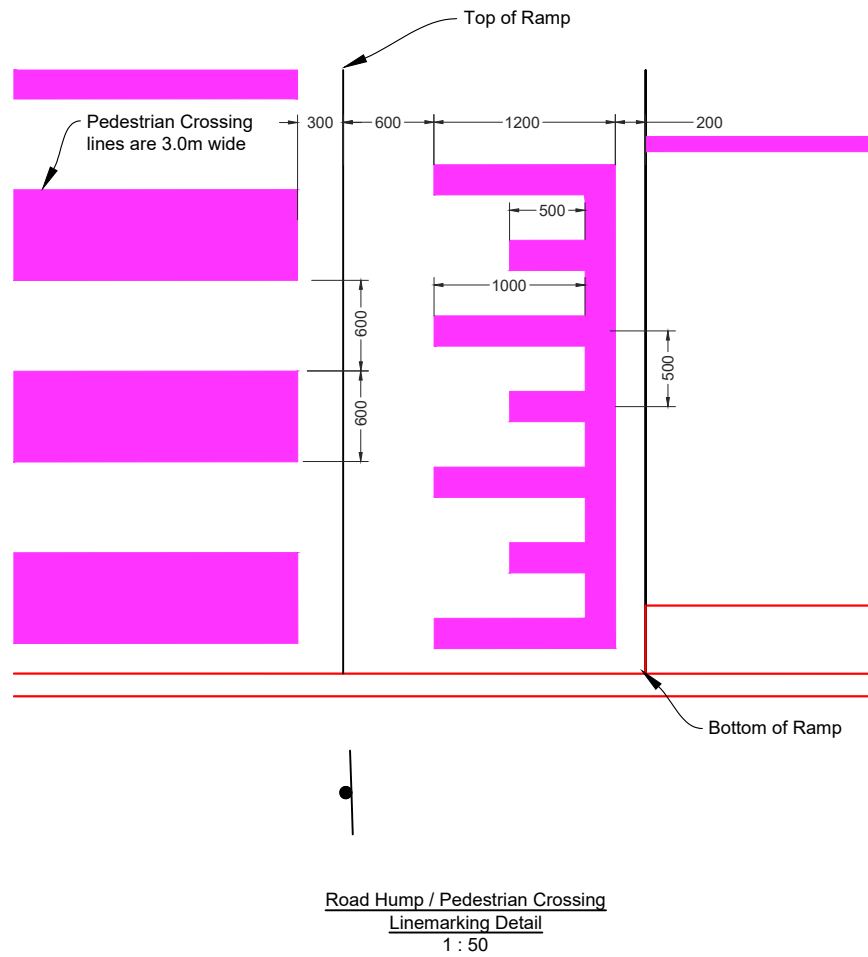
**PRELIMINARY DESIGN DRAFT 4**

PROJECT DETAILS	
Location:	Vine St / Wattle St
Suburb:	Bendigo
Works:	Wombat Crossings
GB No:	GB5198

SHEET DETAILS			
Linemarking, Signage & Lighting	Sheet number: 8 of 10		
	Plan Scale: 1:250 A3		
	Plotted: 20/06/2023 By: Andrew Smith		
SHEET REVISIONS AFTER TENDER			
Revision	Description	Approved by	Date
-	-	-	-
-	-	-	-
-	-	-	-



Pit Schedule										
Pit No.	Pit Type	Standard Drawing	Pit Width	Pit Length	Outlet Diameter	Outlet Invert RL	Inlet Diameter	Inlet Invert RL	Pit Depth	Pit Lid Level
			(mm)	(mm)	(mm)	(m)	(mm)	(m)	(m)	(m)
1	Side Entry Pit	CoGB SD590B-C-G-T	600	900			375	216.198	1.166	217.364
2	Side Entry Pit	CoGB SD590A-D-G-T	600	900	375	216.288			0.989	217.277
3	Side Entry Pit	Existing	600	900			375	216.854	0.657	217.511
4	Side Entry Pit	CoGB SD590A-D-K	600	900	375	217.012			0.672	217.684
5	Side Entry Pit	Existing	600	900			375	216.900	1.107	218.007
6	Side Entry Pit	CoGB SD590A-D-G-T	600	900	375	216.930			1.115	218.045



LEGEND

- EXISTING PIPE TO REMAIN
- DESIGN PIPE / PIT or ENDWALL
- CoGB SD390 TRENCH BACKFILL (BEHIND KERB)
- CoGB SD391 TRENCH BACKFILL (UNDER NEW ROAD)
- CoGB SD392 TRENCH BACKFILL (UNDER EXISTING ROAD)



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GB No:	GB5198

SHEET DETAILS			
Drainage & Hump details		Sheet number:	9 of 10
		Plan Scale:	as shown A3
		Plotted: 20/06/2023 By: Andrew Smith	
SHEET REVISIONS AFTER TENDER			
Revision	Description	Approved by	Date
-	-	-	-
-	-	-	-
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909	STN 9	256667.487	5927945.667	218.163
912	STN 12	256608.809	5927898.868	218.021
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DRAFT 4**

PROJECT DETAILS	
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SHEET DETAILS			
<b>SETOUT</b>		Sheet number:	10 of 10
		Plan Scale:	1:250 A3
Plotted: 20/06/2023 By: Andrew Smith			
SHEET REVISIONS AFTER TENDER			
Revision	Description	Approved by	Date
-	-	-	-
-	-	-	-
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