

PLUMRIDGE STREET, WHITE HILLS

GB5108

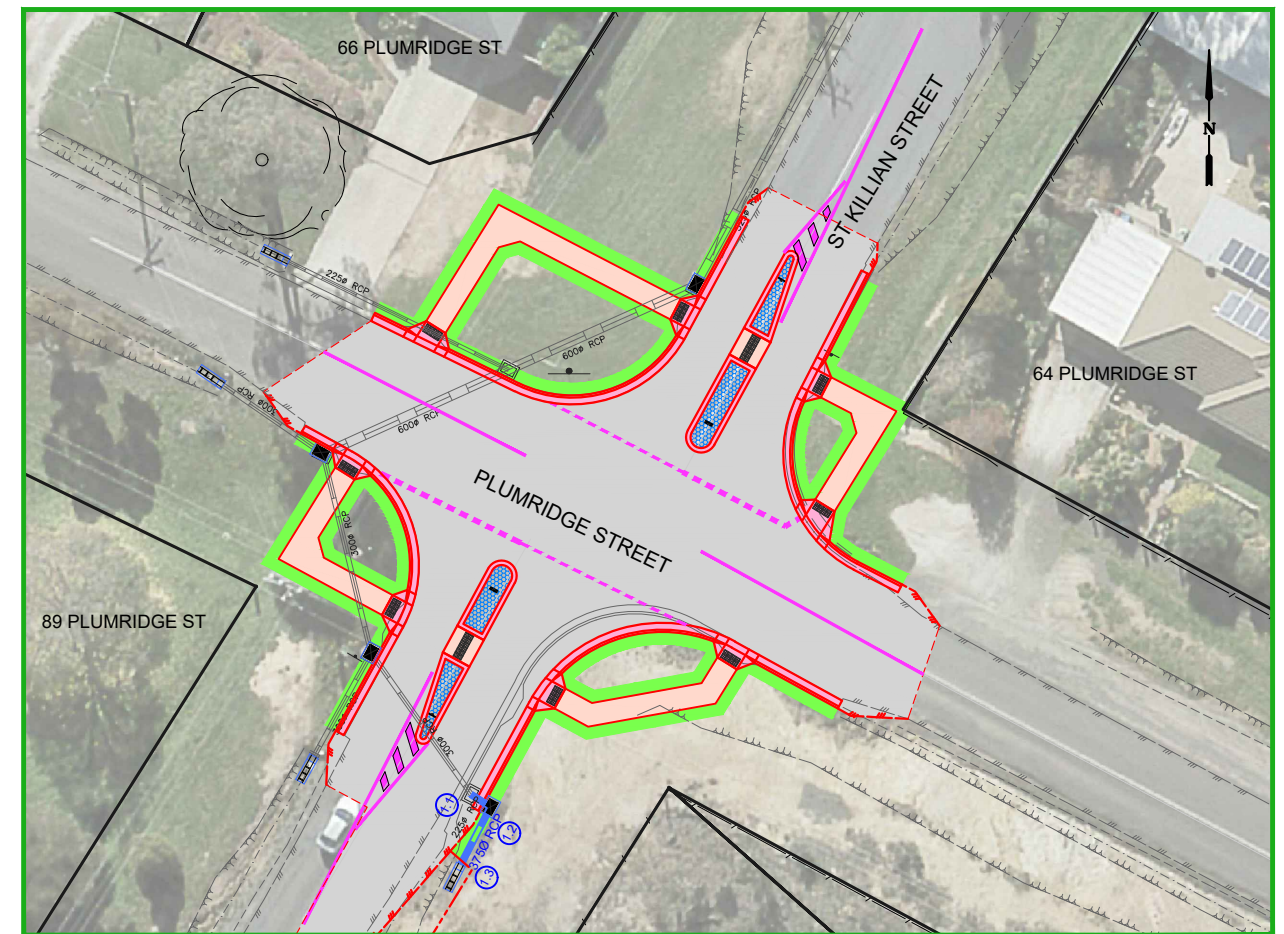
BLACKSPOT UPGRADES

SEPTEMBER 2023

DOCUMENT CONTROL				
SHEET No.	SHEET ESC.	05/10/2023	xx/xx/xx	xx/xx/xx
		DRAFT REVISION	TENDER REVISION	CONSTRUCTION REVISION
1	COVER SHEET	A		
2	GENERAL NOTES	A		
3	DEMOLITION PLAN	A		
4	DETAIL PLAN	A		
5	LIGHTING PLAN	A		
6	KERB LONG SECTIONS	A		
7	FOOTPATH LONG SECTIONS	A		
8	KERB CROSS SECTIONS	A		
9	KERB CROSS SECTIONS	A		
10	DRAINAGE LONG SECTION	A		
11	SETOUT	A		



LOCALITY MAP



PROJECT EXTENTS

APPROVAL TO CONSTRUCT STAMP

PROJECT PLANNING REQUIREMENTS

Item	Required	Comments	Contractor
Vegetation	No	-	
RRV	Yes	Blackspot funded project	
CMA	No	-	
Planning Permit	No	-	
Land Acquisition	No	-	
CHMP	No	-	
Other	No	-	



CITY OF GREATER
BENDIGO

PROJECT DESIGN STATUS

Surveyor:	H. WHYTOCK	10/05/23
Designer:	M. JENNINGS	25/07/23
Draft Checked:	A. SMITH	xx/xx/23
Tender Approved:	N. SARTORI	xx/xx/23

**PRELIMINARY DESIGN
DRAFT 3**

PROJECT DETAILS

Location: PLUMRIDGE STREET
Suburb: WHITE HILLS
Works: BLACKSPOT UPGRADES
GB No: GB5108

SHEET DETAILS

COVER SHEET

Sheet number: 1 of 11

Plan Scale: - A3

Plotted: 05/10/2023 By: Megan Jennings

SHEET REVISIONS AFTER TENDER

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

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

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

INCIDENTAL CONSTRUCTION

- 701 Underground Stormwater Drains
- 702 Subsurface Drainage
- 703 General Concrete Paving
- 705 Drainage Pits and Covers
- 706 Installation or Replacement of Utility Infrastructure within Road Reserves
- 707 Fencing
- 709 Guide Posts
- 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 Works 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	Yes	Blackspot funded project	
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

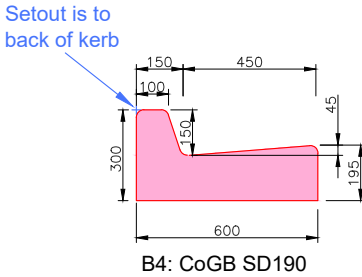
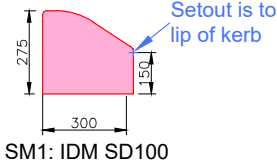
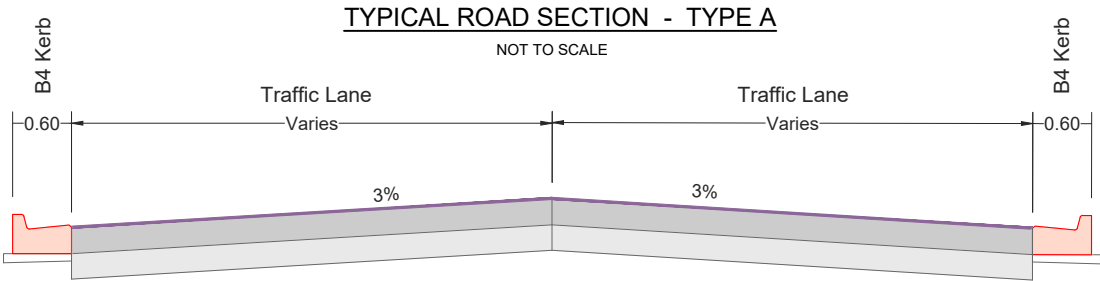
SITE ENVIRONMENTAL MANAGEMENT PLAN

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.



PAVEMENT TYPE 2A			
KEY	LAYER	DEPTH	THICKNESS
	Asphalt (w)	40mm	Size 10 Type H (C320)
	Base	160mm	CL1 FCR 20mm compacted to 98%MMDD at 85%OMC +/- 1%
	Sub Base	150mm	CL3 FCR 20mm compacted to 100%MMDD at 85%OMC +/- 1%
	Subgrade		Reworked and recompactd to 95%SMDD at 85%OMC +/- 3%



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.

SURVEY NOTES
Survey has been conducted to:

- MGA 2020 and orientated via PM574 & PM506
- Survey level has been tied to AHD via PM574

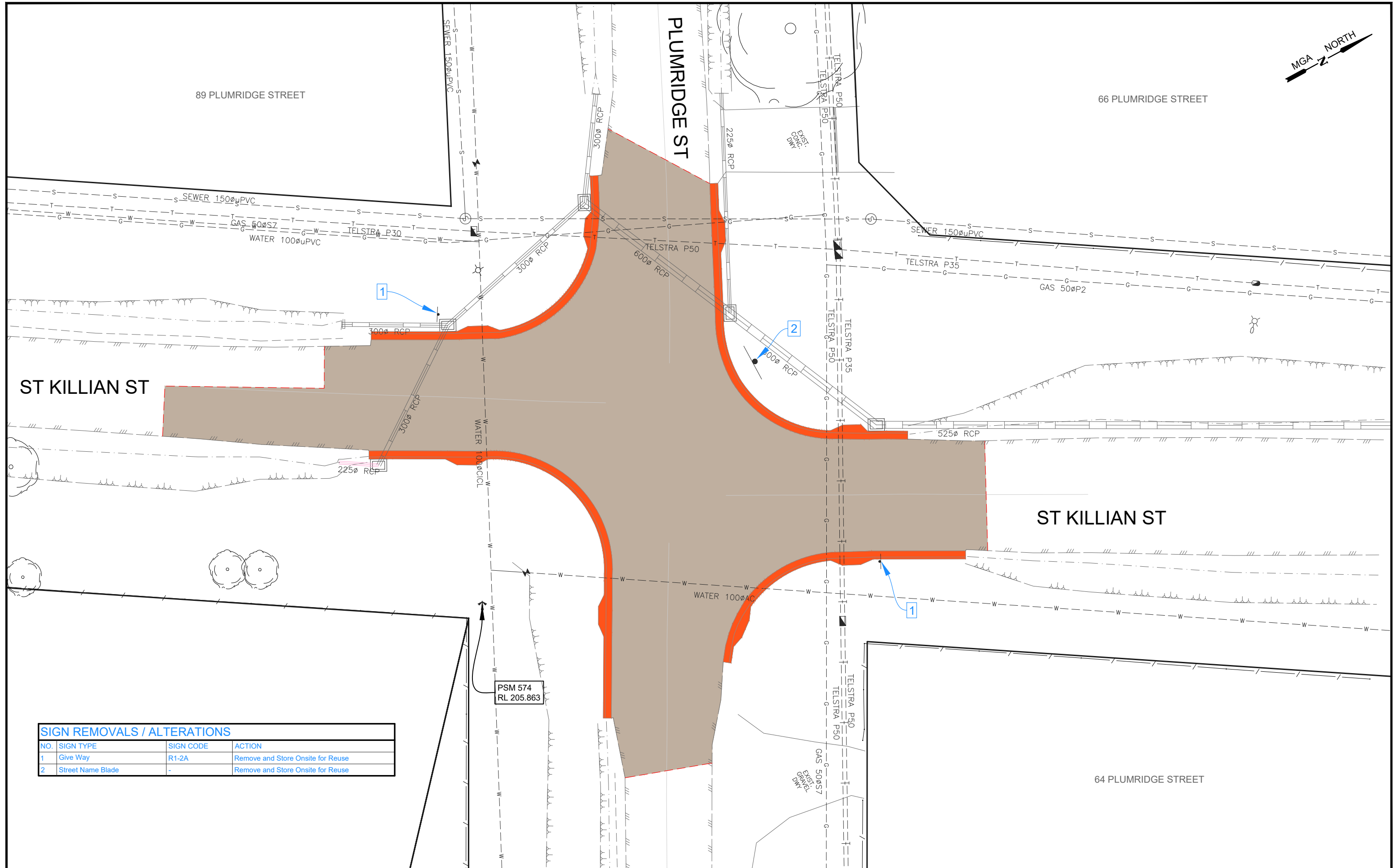


PROJECT DESIGN STATUS		
Surveyor:	H. WHYTOCK	10/05/23
Designer:	M. JENNINGS	25/07/23
Draft Checked:	A. SMITH	xx/xx/23
Tender Approved:	N. SARTORI	xx/xx/23

**PRELIMINARY DESIGN
DRAFT 3**

PROJECT DETAILS	
Location:	PLUMRIDGE STREET
Suburb:	WHITE HILLS
Works:	BLACKSPOT UPGRADES
GB No:	GB5108

SHEET DETAILS		
GENERAL NOTES		Sheet number: 2 of 11
		Plan Scale: - A3
		Plotted: 05/10/2023 By: Megan Jennings
SHEET REVISIONS AFTER TENDER		
Revision	Description	Approved by Date
-	-	-
-	-	-
-	-	-



SIGN REMOVALS / ALTERATIONS			
NO.	SIGN TYPE	SIGN CODE	ACTION
1	Give Way	R1-2A	Remove and Store Onsite for Reuse
2	Street Name Blade	-	Remove and Store Onsite for Reuse

LEGEND

Removal: Pavement

Removal: Kerb

Removal: Concrete

Removal: Linemarking

Removal: Sawcut

Removal: Pipe

Removal: Tree

CITY OF GREATER BENDIGO

PROJECT DESIGN STATUS

Surveyor: H. WHYTECK

Designer: M. JENNINGS

Draft Checked: A. SMITH

Tender Approved: N. SARTORI

10/05/23

25/07/23

xx/xx/23

xx/xx/23

PRELIMINARY DESIGN

DRAFT 3

PROJECT DETAILS

Location: PLUMRIDGE STREET

Suburb: WHITE HILLS

Works: BLACKSPOT UPGRADES

GB No: GB5108

SHEET DETAILS

DEMOLITION PLAN

Sheet number: 3 of 11

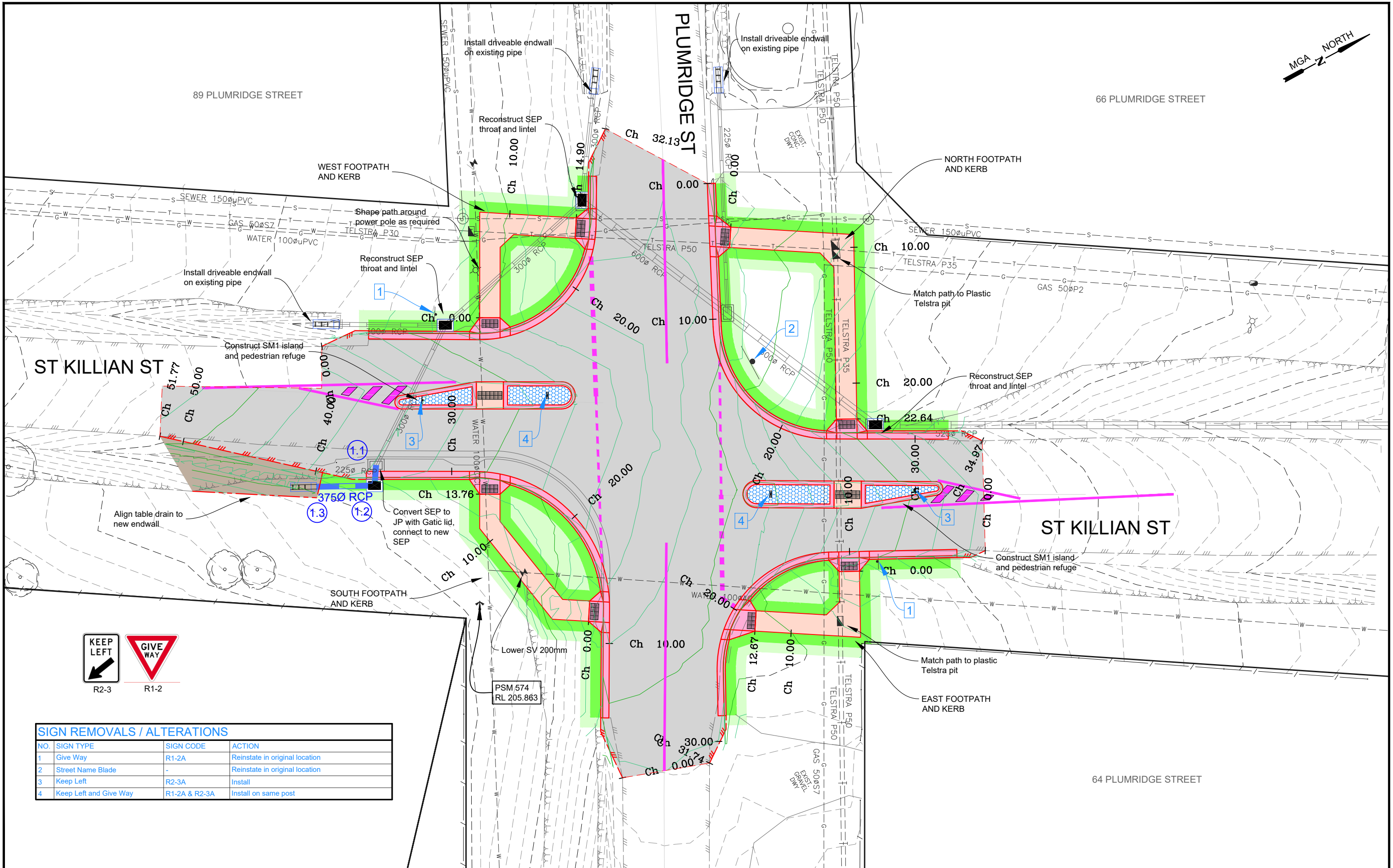
Plan Scale: 1:250

A3

Plotted: 05/10/2023 By: Megan Jennings

SHEET REVISIONS AFTER TENDER

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



SIGN REMOVALS / ALTERATIONS			
NO.	SIGN TYPE	SIGN CODE	ACTION
1	Give Way	R1-2A	Reinstate in original location
2	Street Name Blade	-	Reinstate in original location
3	Keep Left	R2-3A	Install
4	Keep Left and Give Way	R1-2A & R2-3A	Install on same post

LEGEND			
DESIGN CONTOURS - Levels to AHD (0.10m interval)	DESIGN SEAL: (Refer: Typical road pavement detail.)	Concrete Driveway area: Normal plain Dwy as per ID1M SD240	Landscape work: Instant turf (Refer: Typical details pg 2)
EXISTING CONTOURS - Levels to AHD (0.10m interval)	Concrete Kerb area: Normal plain Kerb as noted and as per: ID1M SD100, CoGB SD190,191,192	Concrete Driveway area: Industrial plain Dwy as per ID1M SD250	Landscape work: topsoil and seed (Refer: Typical details pg 2)
Proposed Street Tree (Refer: Typical details pg 2)	Concrete Footpath area: Normal plain Footpath as per ID1M SD 205 & SD210	Concrete slab area: Stenciled infill Slab as per ID1M SD205 & 210 Stencil: Cobble in Charcoal, clear sealant	Landscape work: Mulched areas (Refer: Typical details pg 2)

CITY OF GREATER BENDIGO

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PRELIMINARY DESIGN DRAFT 3

PROJECT DETAILS

Location: PLUMRIDGE STREET

Suburb: WHITE HILLS

Works: BLACKSPOT UPGRADES

GB No: GB5108

SHEET DETAILS

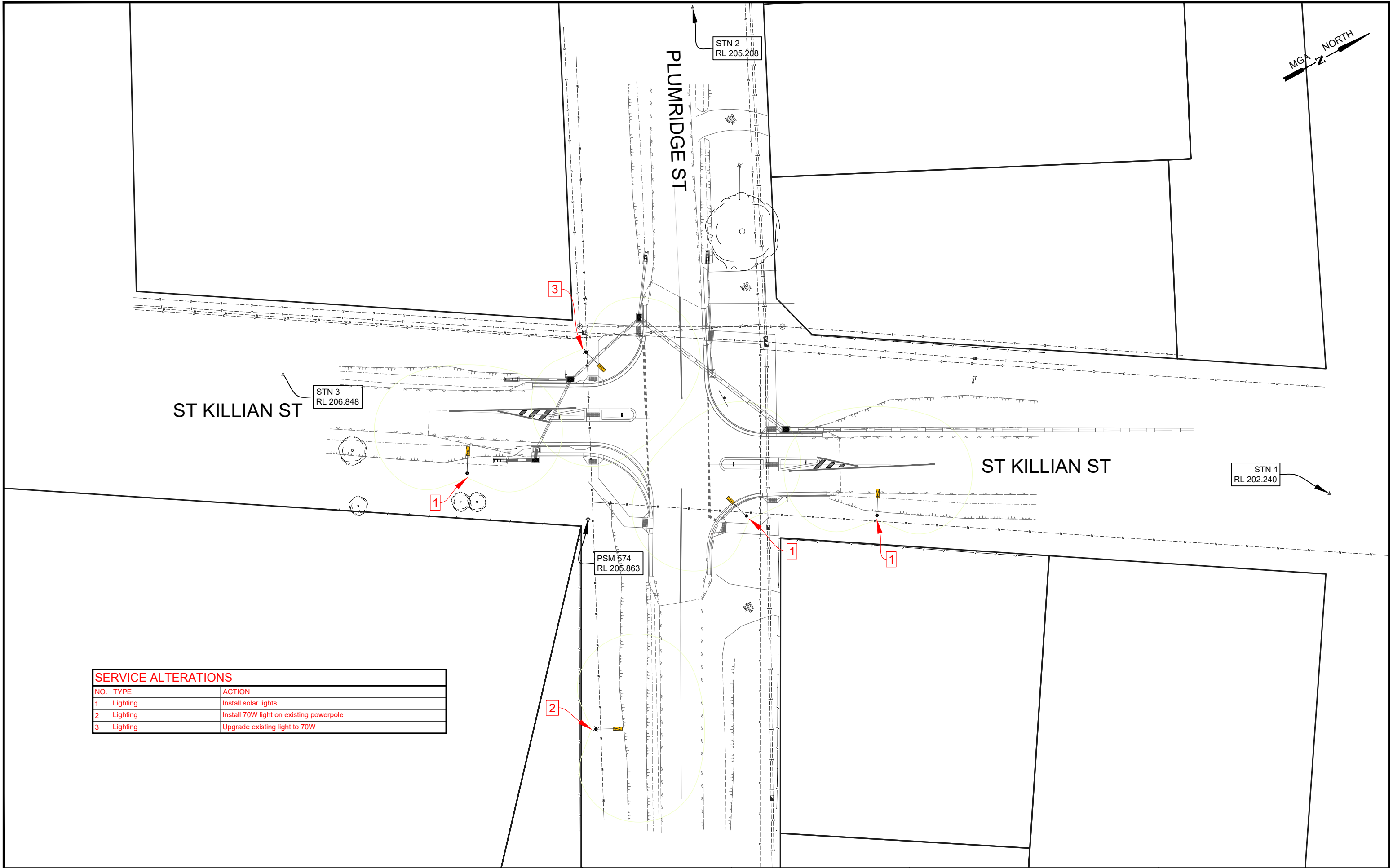
DETAIL PLAN

Sheet number: 4 of 11

Plan Scale: 1:250

Plotted: 05/10/2023 By: Megan Jennings

Revision	Description	Approved by	Date
-	-	-	-
-	-	-	-
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SERVICE ALTERATIONS

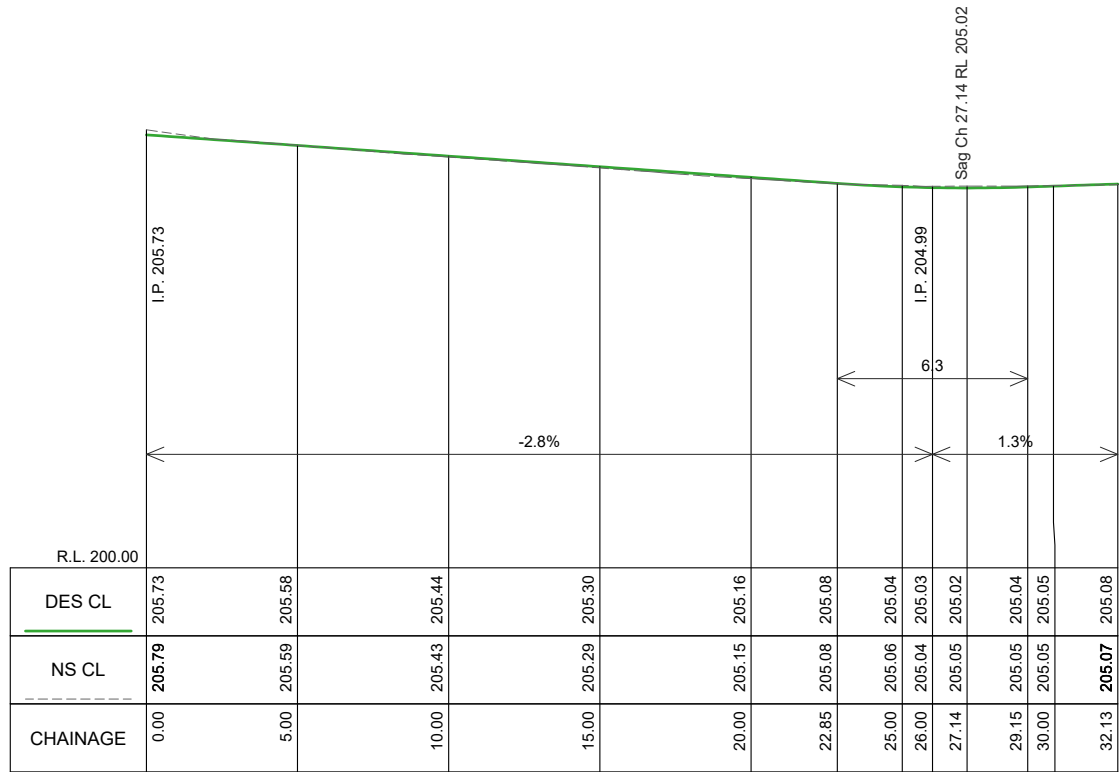
NO.	TYPE	ACTION
1	Lighting	Install solar lights
2	Lighting	Install 70W light on existing powerpole
3	Lighting	Upgrade existing light to 70W



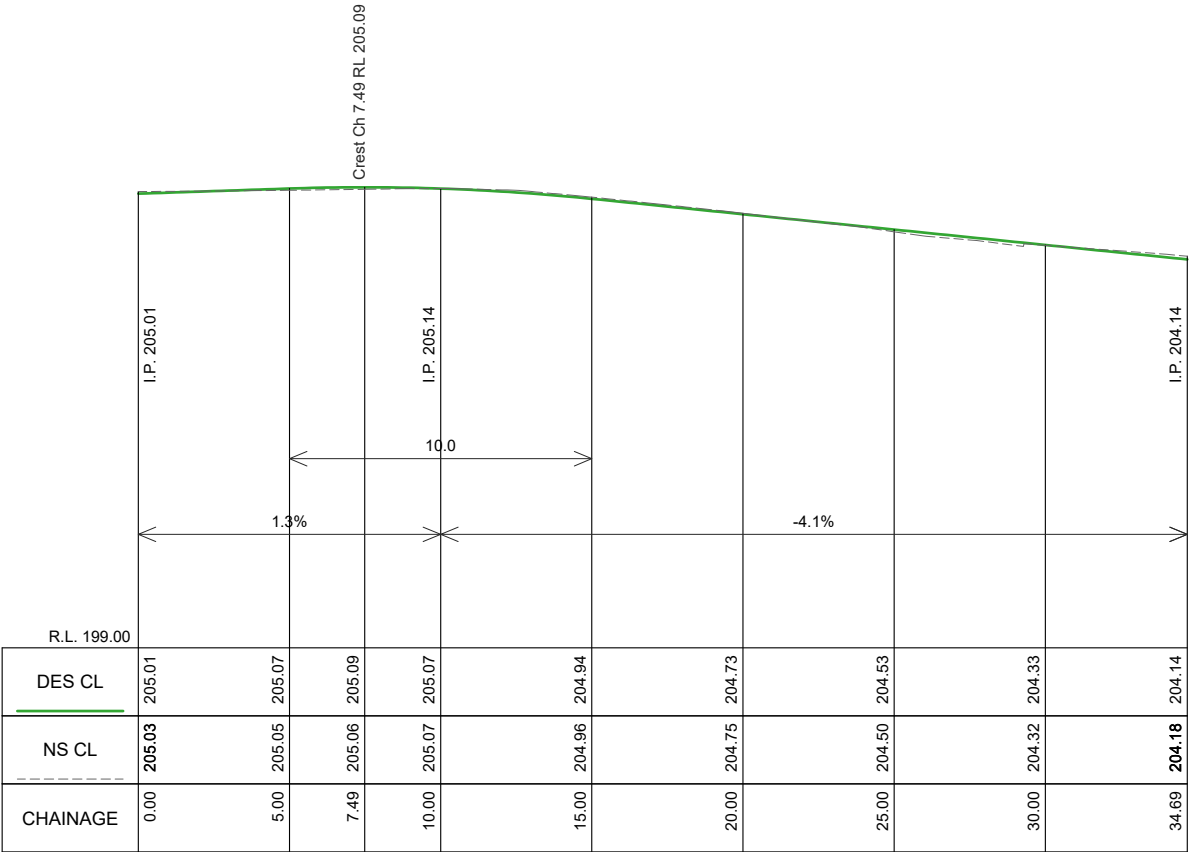
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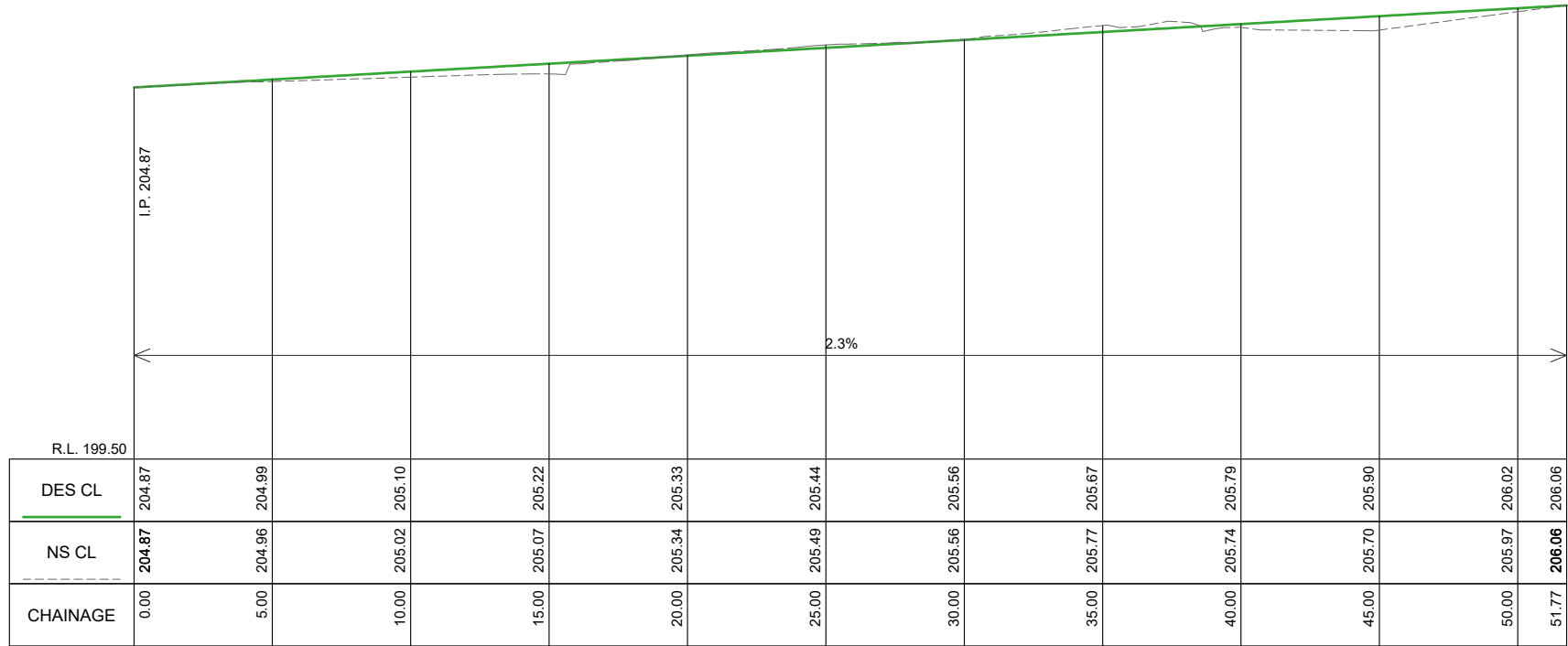
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LIGHTING PLAN	
Sheet number: 5 of 11	
Plan Scale: 1:500	
A3	
Plotted: 05/10/2023 By: Megan Jennings	
SHEET REVISIONS AFTER TENDER	
Revision	Description
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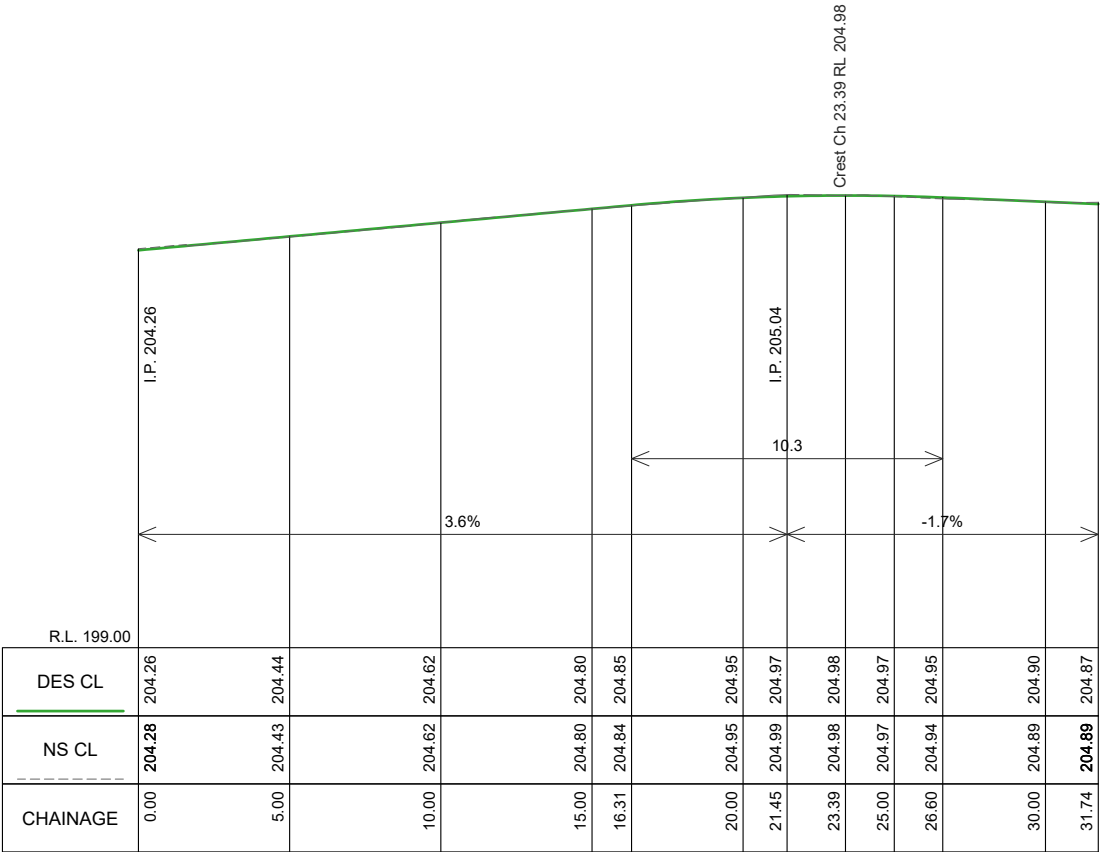
WEST KERB LONGITUDINAL SECTION CH 0.000 To 32.130
SCALES: H 1:250 V 1:100 (A3)



NORTH KERB LONGITUDINAL SECTION CH 0.000 To 34.693
SCALES: H 1:250 V 1:100 (A3)



SOUTH KERB LONGITUDINAL SECTION CH 0.000 To 51.768
SCALES: H 1:250 V 1:100 (A3)



EAST KERB LONGITUDINAL SECTION CH 0.000 To 31.744
SCALES: H 1:250 V 1:100 (A3)

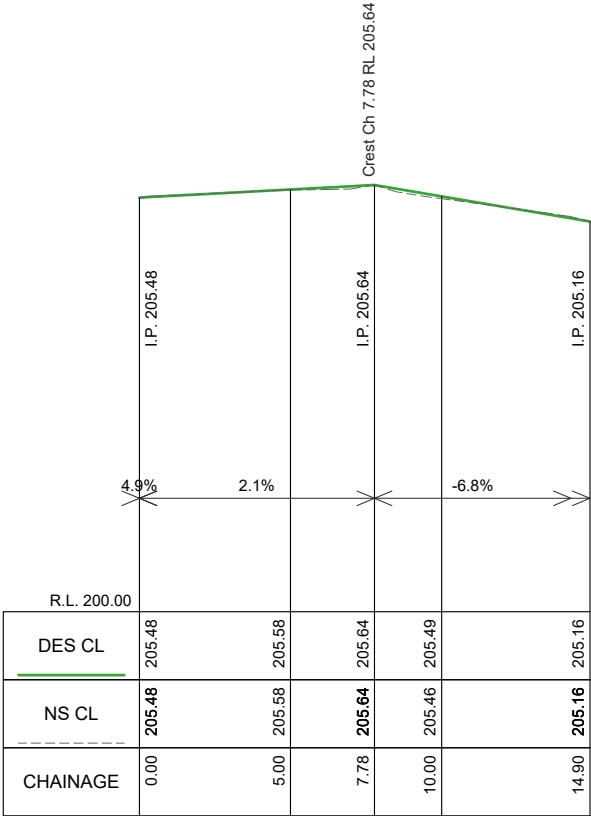


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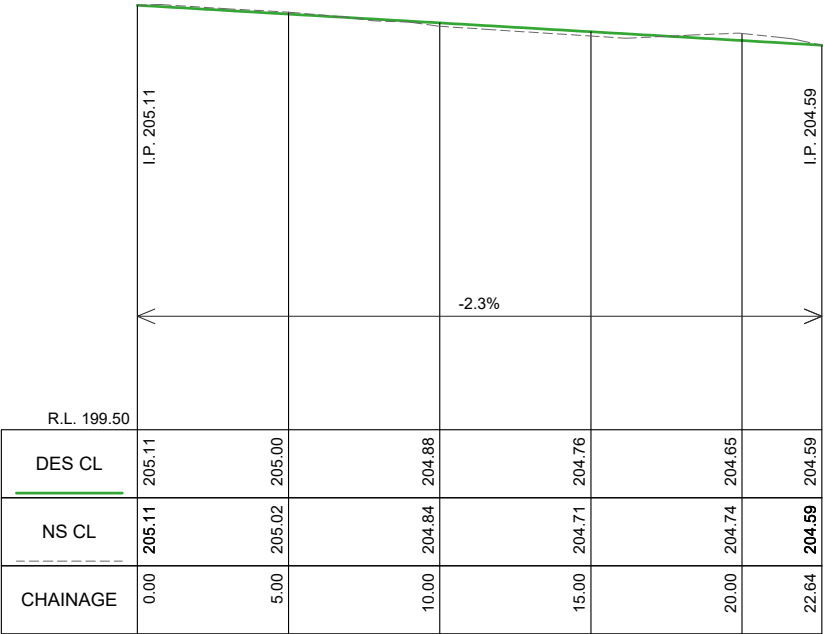
PRELIMINARY DESIGN
DRAFT 3

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Suburb:	WHITE HILLS
Works:	BLACKSPOT UPGRADES
GB No:	GB5108

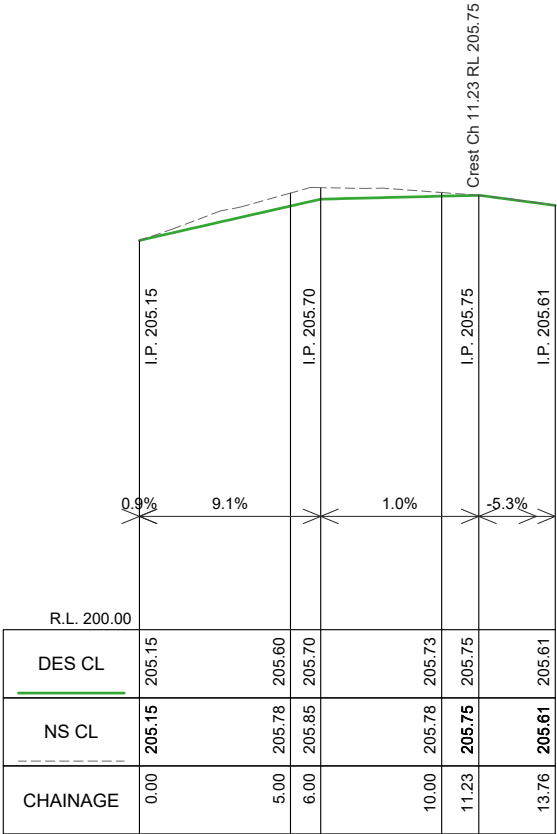
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	Plan Scale: AS SHOWN A3
	Plotted: 05/10/2023 By: Megan Jennings
SHEET REVISIONS AFTER TENDER	
Revision	Description
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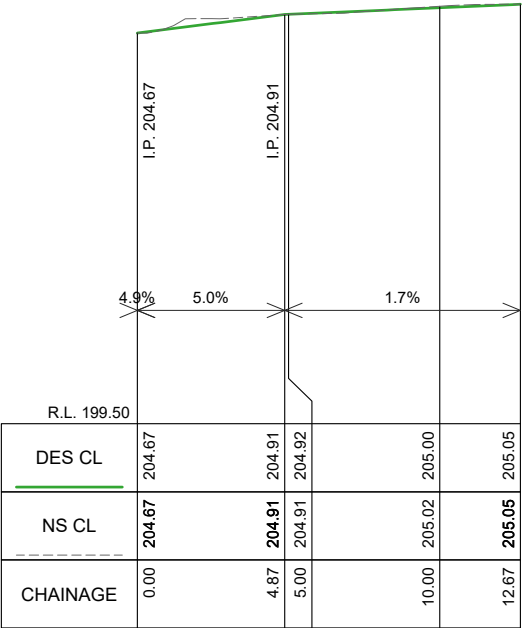
WEST FOOTPATH LONGITUDINAL SECTION CH 0.000 To 14.902
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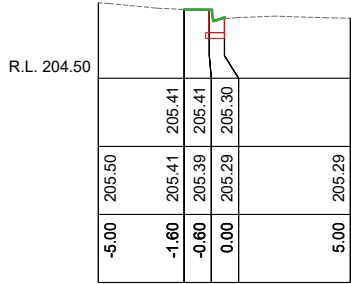
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SCALES: H 1:250 V 1:100 (A3)



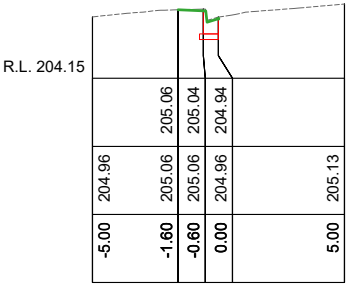
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SCALES: H 1:250 V 1:100 (A3)



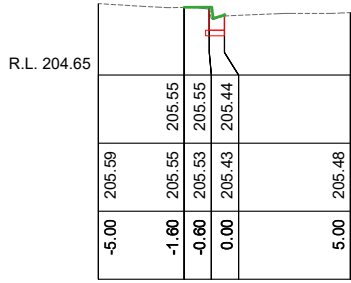
EAST FOOTPATH LONGITUDINAL SECTION CH 0.000 To 12.666
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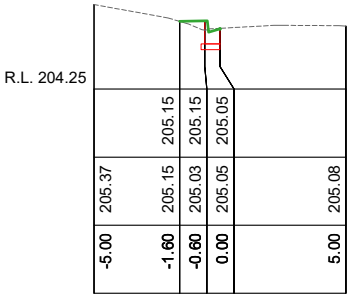
Ch 15.00



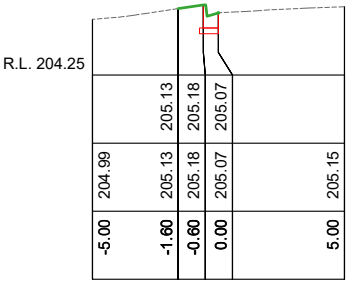
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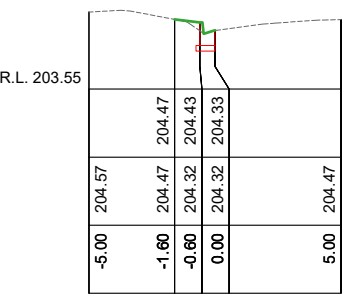
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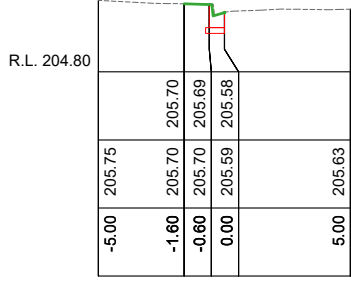
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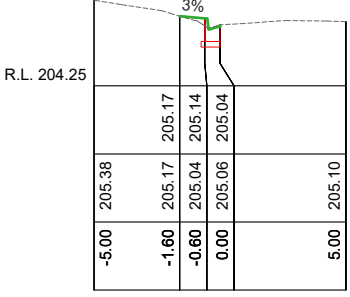
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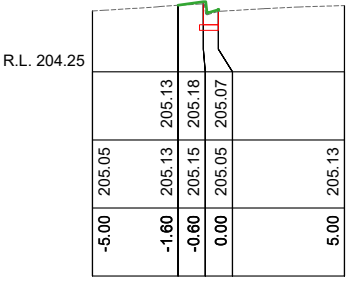
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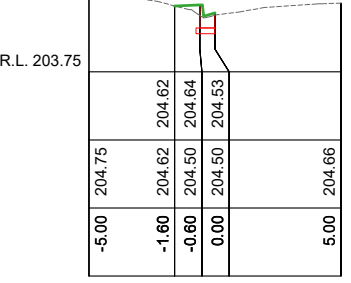
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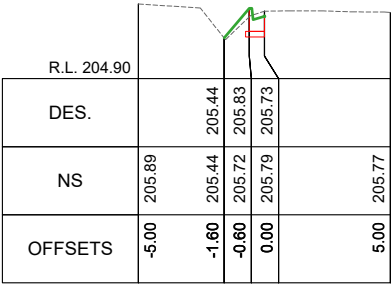
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Ch 5.00

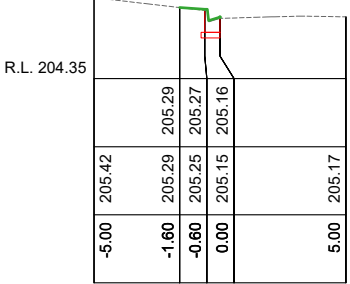


Ch 25.00

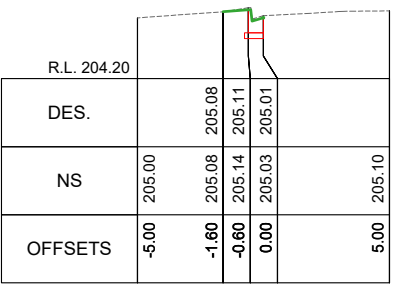


Ch 0.00

WEST KERB CROSS SECTIONS
SCALES: H 1:300 V 1:100 (A3)

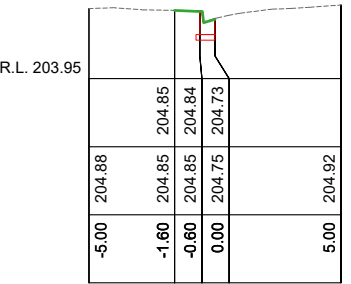


Ch 20.00



Ch 0.00

NORTH KERB CROSS SECTIONS
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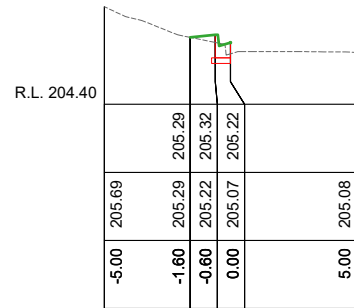
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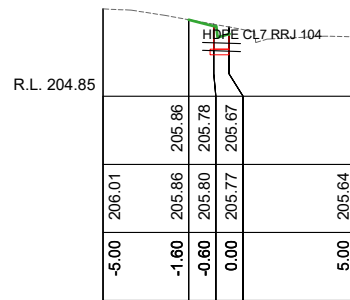
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PRELIMINARY DESIGN DRAFT 3		

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Suburb:	WHITE HILLS
Works:	BLACKSPOT UPGRADES
GB No:	GB5108

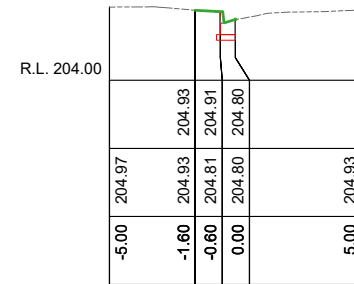
SHEET DETAILS			
KERB CROSS SECTIONS		Sheet number: 8 of 11	
		Plan Scale: AS SHOWN A3	
		Plotted: 05/10/2023 By: Megan Jennings	
SHEET REVISIONS AFTER TENDER			
Revision	Description	Approved by	Date
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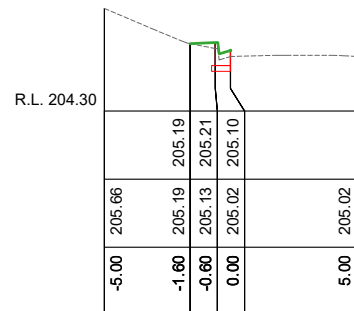
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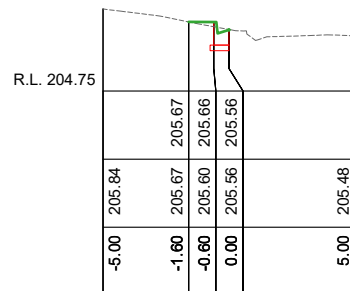
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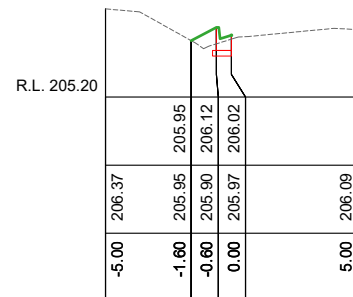
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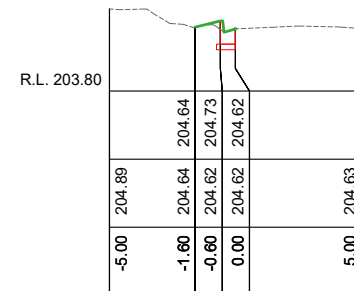
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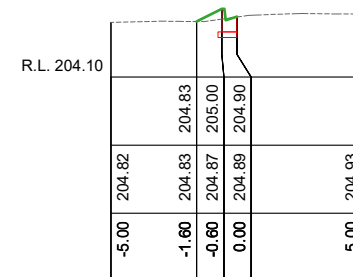
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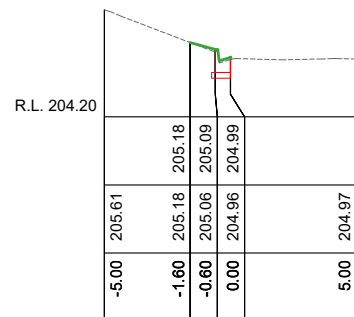
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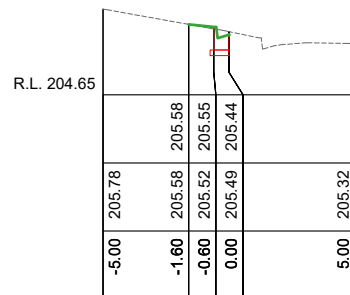
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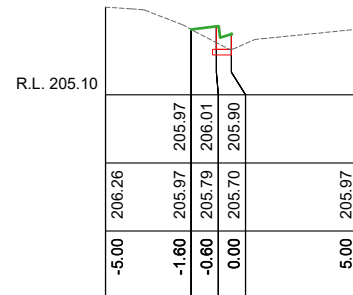
Ch 30.00



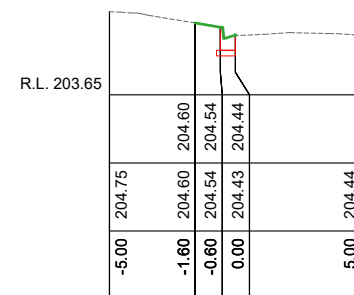
Ch 5.00



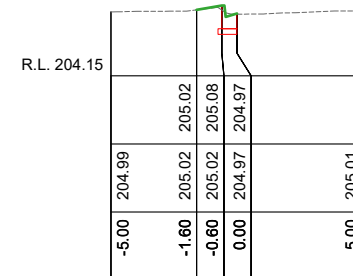
Ch 25.00



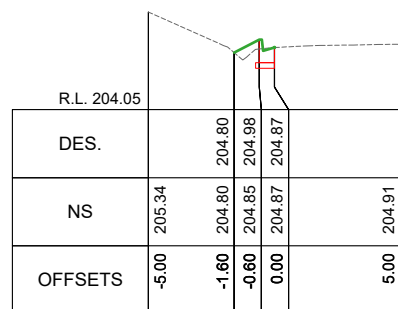
Ch 45.00



Ch 5.00

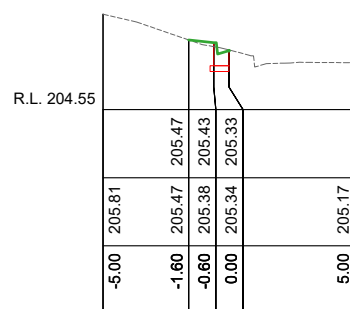


Ch 25.00

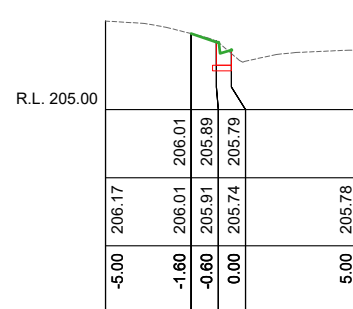


Ch 0.00

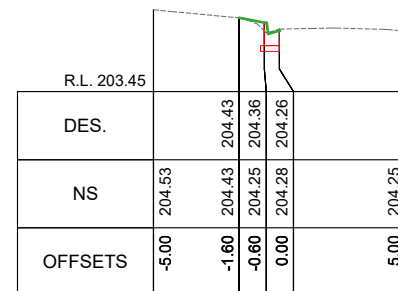
SOUTH KERB CROSS SECTIONS
SCALES: H 1:300 V 1:100 (A3)



Ch 20.00

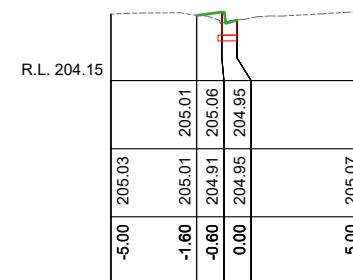


Ch 40.00



Ch 0.00

EAST KERB CROSS SECTIONS
SCALES: H 1:300 V 1:100 (A3)



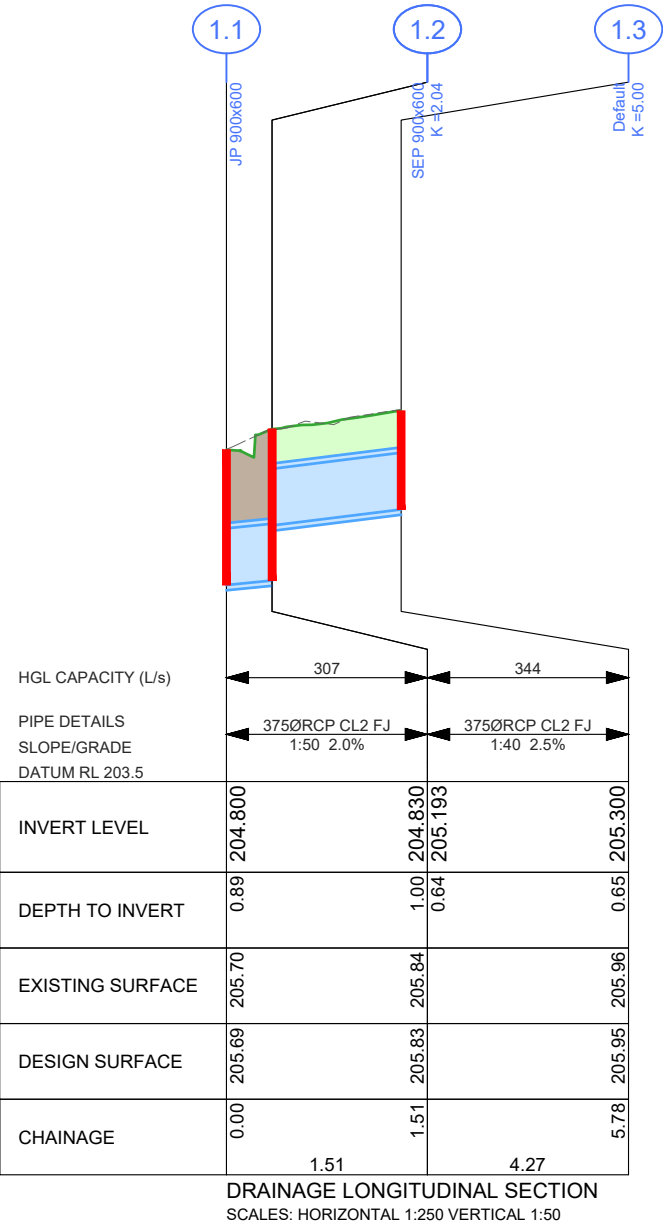
Ch 20.00



PROJECT DESIGN STATUS		
Surveyor:	H. WHYTOCK	10/05/23
Designer:	M. JENNINGS	25/07/23
Draft Checked:	A. SMITH	xx/xx/23
Tender Approved:	N. SARTORI	xx/xx/23
PRELIMINARY DESIGN DRAFT 3		

PROJECT DETAILS	
Location:	PLUMRIDGE STREET
Suburb:	WHITE HILLS
Works:	BLACKSPOT UPGRADES
GB No:	GB5108

SHEET DETAILS			
KERB CROSS SECTIONS		Sheet number:	9 of 11
		Plan Scale:	AS SHOWN A3
		Plotted:	05/10/2023 By:Megan Jennings
SHEET REVISIONS AFTER TENDER			
Revision	Description	Approved by	Date
-	-	-	-
-	-	-	-
-	-	-	-



Pit Schedule										
Pit No.	Pit Type	Pit Width	Pit Length	Outlet Diameter	Outlet Invert RL	Inlet Diameter	Inlet Invert RL	Pit Depth	Pit Lid Level	Comment
		(mm)	(mm)	(mm)	(m)	(mm)	(m)	(m)	(m)	
1.1	COGB SD590 A-C-L-S	600	900			375	204.800	0.894	205.694	Convert SEP to JP
1.2	COGB SD590 A-C-G-R	600	900	375	204.830	375	205.193	1.001	205.831	
1.3	Driveable Endwall	-	-	375	205.300			0.652	205.952	

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)



CITY OF GREATER BENDIGO

PROJECT DESIGN STATUS

Surveyor:

Designer:

Draft Checked:

Tender Approved:

H. WHYTECK

M. JENNINGS

A. SMITH

N. SARTORI

10/05/23

25/07/23

xx/xx/23

xx/xx/23

PRELIMINARY DESIGN

DRAFT 3

PROJECT DETAILS

Location:

Suburb:

Works:

GB No:

PLUMRIDGE STREET

WHITE HILLS

BLACKSPOT UPGRADES

GB5108

SHEET DETAILS

DRAINAGE LONG SECTION

SHEET REVISIONS AFTER TENDER

Revision

Description

Approved by

Date

-

-

-

-

-

-

-

-

-

-

-

-

Sheet number:

Plan Scale:

Plotted:

10 of 11

1:250

05/10/2023

By:

Megan Jennings

