

# HAVELOCK STREET BENDIGO

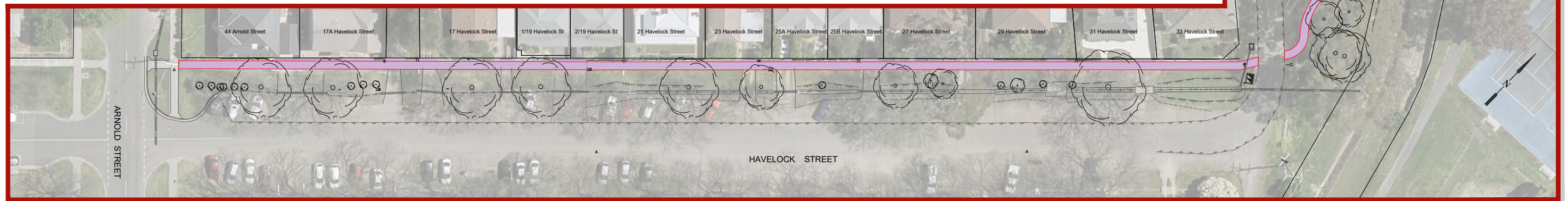
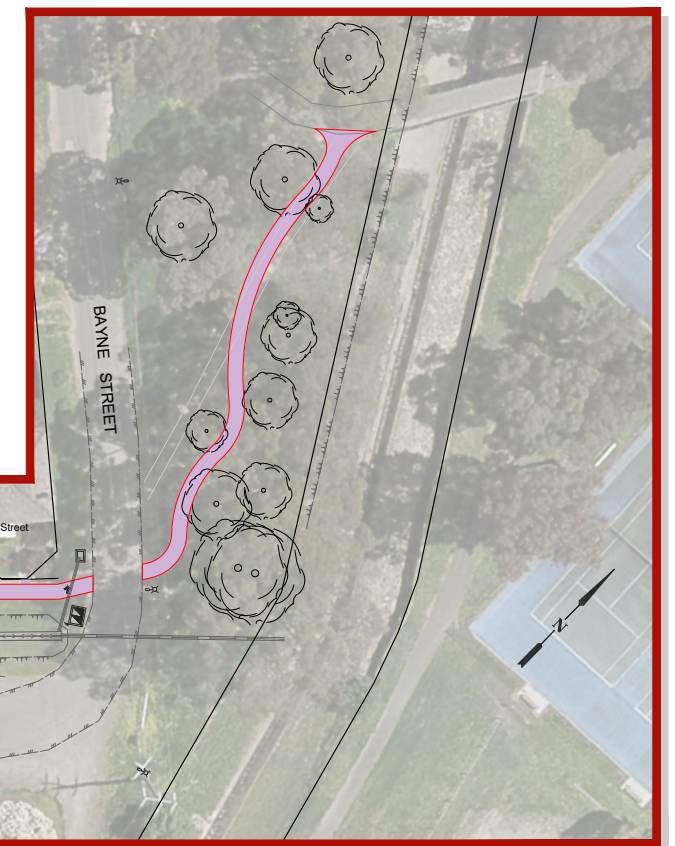
## GB5115

# FOOTPATH CONSTRUCTION FEBRUARY 2024



LOCALITY MAP

DOCUMENT CONTROL				
SHEET No.	SHEET DESCRIPTION.	12/24	xx/24	xx/24
		DRAFT	TENDER	CONSTRUCTION
		REVISION	REVISION	REVISION
1	COVER SHEET	A	-	-
2	GENERAL NOTES & TYPICAL SECTION	A	-	-
3	OVERALL LAYOUT & CONTROL	A	-	-
4 - 6	LAYOUT PLAN & LONG SECTION	A	-	-
7 - 9	CROSS SECTIONS	A	-	-
10	SETOUT	A	-	-



PROJECT EXTENTS

PROJECT PLANNING REQUIREMENTS				CITY OF GREATER BENDIGO	PROJECT DESIGN STATUS			PROJECT TITLE		SHEET DETAILS		
Item	Required	Comments	Contractor		Surveyor	D. MEADE	JAN. 2024	Location:	HAVELOCK STREET		Sheet: 1 OF 10	
Vegetation	Yes	Arborist to inspect prior to works		Designer	L. OLIVER	FEB. 2024	Suburb:	BENDIGO		Scale: -		A3
RRV	No	-		Draft Checked	A. SMITH	X/X/24	Works:	FOOTPATH CONSTRUCTION		Plot Date: 12/02/2024 By: Leigh Oliver		
CMA	No	-		Tender Approved	N. SARTORI	X/X/24	Reference:	GB5115		AMENDMENTS		
Planning Permit	No	-							Revision	Description	Approved by	Date
Land Acquisition	No	-							-	-	-	-
CHMP	No	-							-	-	-	-
Other	No	-							-	-	-	-

**PRELIMINARY DESIGN  
DRAFT 2**

**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 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**

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	Comments	Contractor
Vegetation	Yes	Arborist to inspect prior to works	
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:

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

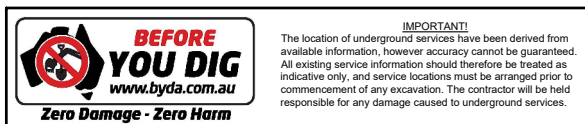
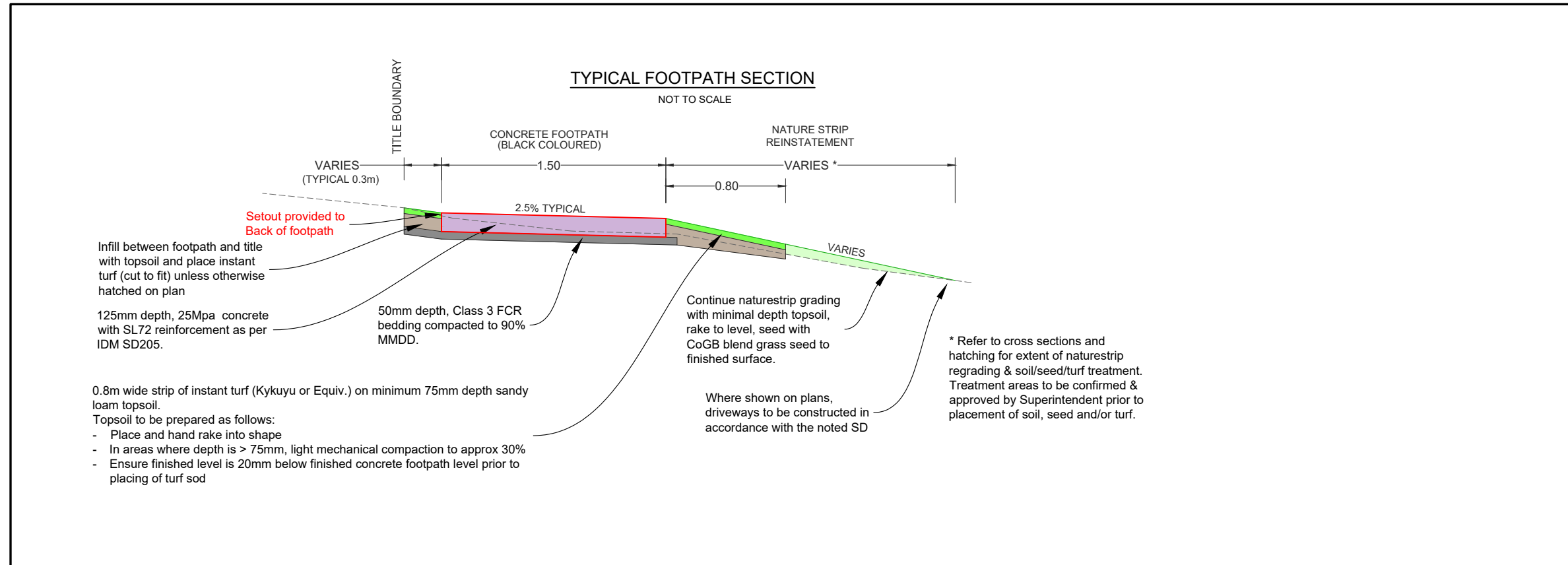
**SITE ENVIRONMENTAL MANAGEMENT PLAN**

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.

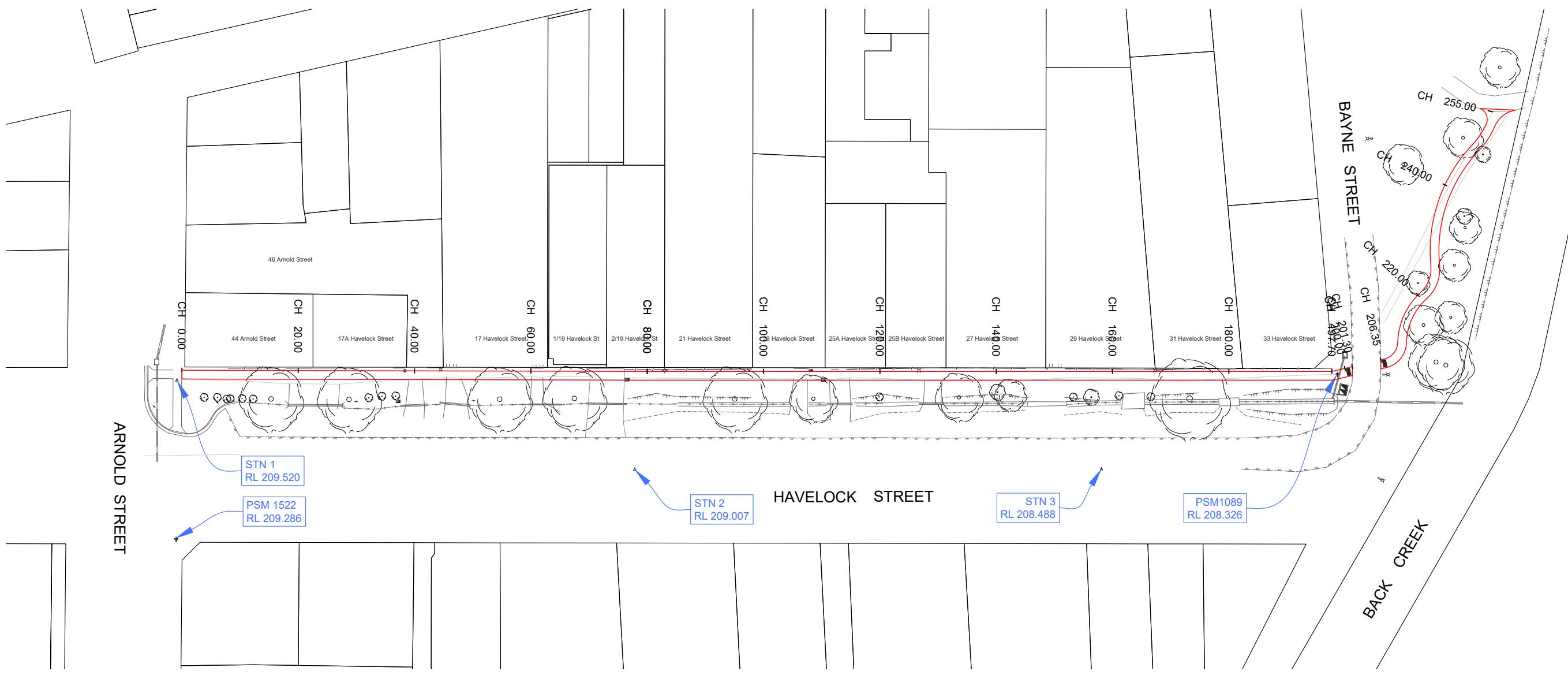
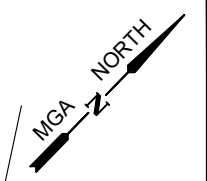


PROJECT DESIGN STATUS		
Surveyor	D. MEADE	JAN. 2024
Designer	L. OLIVER	FEB. 2024
Draft Checked	A. SMITH	X/X/24
Tender Approved	N. SARTORI	X/X/24

**PRELIMINARY DESIGN DRAFT 2**

PROJECT TITLE	
Location:	HAVELOCK STREET
Suburb:	BENDIGO
Works:	FOOTPATH CONSTRUCTION
Reference:	GB5115

SHEET DETAILS			
GENERAL NOTES & TYPICAL SECTION		Sheet: 2 OF 10	A3
Plot Date: 12/02/2024 By: Leigh Oliver			
AMENDMENTS			
Revision	Description	Approved by	Date
-	-	-	-
-	-	-	-
-	-	-	-



STATION DATA				
Point #	Description	Easting	Northing	Level
901	STN 1	257754.891	5929190.038	209.520
902	STN 2	257821.838	5929234.148	209.007
903	STN 3	257879.121	5929290.337	208.488
922	PSM 1522	257773.739	5929170.587	209.286
989	PSM1089	257896.602	5929330.508	208.326



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Draft Checked	A. SMITH	X/X/24
Tender Approved	N. SARTORI	X/X/24

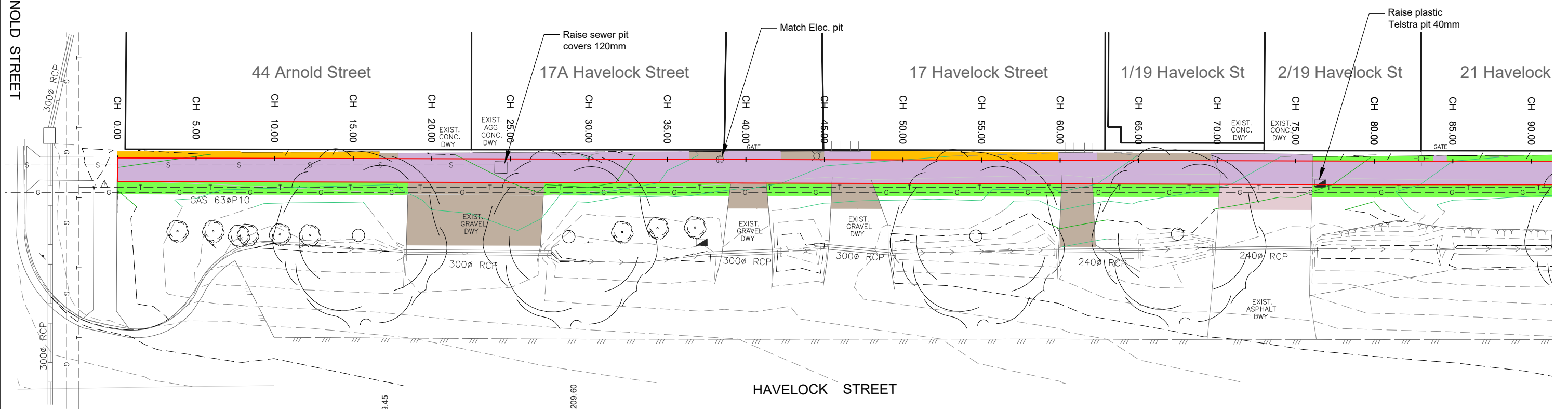
**PRELIMINARY DESIGN  
DRAFT 2**

PROJECT TITLE	
Location:	HAVELOCK STREET
Suburb:	BENDIGO
Works:	FOOTPATH CONSTRUCTION
Reference:	GB5115

SHEET DETAILS			
<b>OVERALL LAYOUT &amp; CONTROL</b>		Sheet:	3 OF 10
		Scale:	1:750
Plot Date: 12/02/2024 By: Leigh Oliver			
AMENDMENTS			
Revision	Description	Approved by	Date
-	-	-	-
-	-	-	-
-	-	-	-



ARNOLD STREET



HAVELOCK STREET

Sag Ch 18.00 RL 209.45

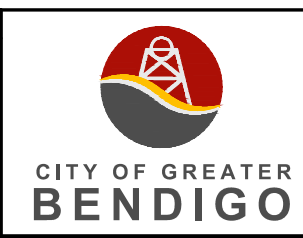
Crest Ch 30.00 RL 209.60

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DES CL	209.52	209.50	209.48	209.46	209.45	209.48	209.54	209.60	209.42	209.38	209.36	209.31	209.30	209.29	209.28	209.19	209.15	209.08	208.99	208.90	208.87	208.89
NS CL	209.52	209.48	209.43	209.44	209.43	209.48	209.45	209.59	209.40	209.38	209.35	209.27	209.30	209.28	209.25	209.16	209.14	209.08	208.95	208.90	208.87	208.89
CHAINAGE	0.00	5.00	10.00	15.00	18.00	20.00	25.00	30.00	35.00	38.00	40.00	45.00	50.00	55.00	60.00	65.00	70.00	75.00	80.00	85.00	90.00	

BFP STREET LONGITUDINAL SECTION CH 0.00 To 90.00  
 SCALES: H 1:250 V 1:100 (A3)

**LEGEND**

DESIGN CONTOURS - Levels to AHD (0.10m interval)	Concrete Footpath area: Normal Black Footpath as per IDM SD 205 & SD210	Asphalt area: 30mm depth Asphalt over 100mm depth Class 3 FCR	Landscape work: Instant turf (Refer: Typical details pg 2)
EXISTING CONTOURS - Levels to AHD (0.10m interval)	Gravel area: 50mm depth Class 3 FCR	Landscape work: topsoil and seed (Refer: Typical details pg 2)	Landscape work: Mulched areas (Refer: Typical details pg 2)
	Existing tree to be removed		



**PROJECT DESIGN STATUS**

Surveyor	D. MEADE	JAN. 2024
Designer	L. OLIVER	FEB. 2024
Draft Checked	A. SMITH	X/X/24
Tender Approved	N. SARTORI	X/X/24

**PRELIMINARY DESIGN DRAFT 2**

**PROJECT TITLE**

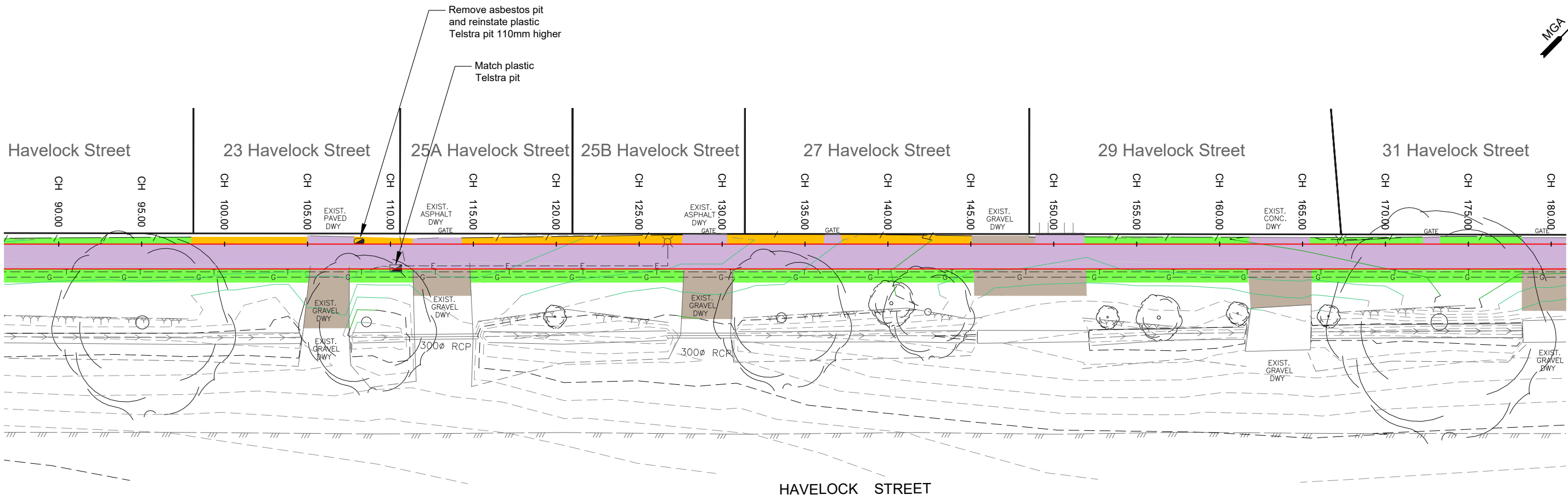
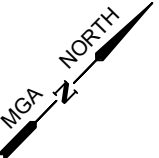
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 Suburb: **BENDIGO**  
 Works: **FOOTPATH CONSTRUCTION**  
 Reference: **GB5115**

**SHEET DETAILS**

**LAYOUT PLAN & LONG SECTION**

Sheet: **4 OF 10**  
 Scale: **1:250** **A3**  
 Plot Date: 12/02/2024 By: Leigh Oliver

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



HAVELOCK STREET

Seg Ch 152.00 RL 208.42

R.L. 203.00	DESIGN CL		NS CL		CHAINAGE
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					95.00
					100.00
					105.00
					110.00
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					145.00
					150.00
					152.00
					155.00
					160.00
					165.00
					170.00
					172.50
					175.00
					178.00
					180.00

BFP STREET LONGITUDINAL SECTION CH 90.000 To 180.000  
 SCALES: H 1:250 V 1:100 (A3)

LEGEND

- DESIGN CONTOURS  
- Levels to AHD (0.10m interval)
- Concrete Footpath area: Normal Black Footpath as per IDM SD 205 & SD210
- Asphalt area: 30mm depth Asphalt over 100mm depth Class 3 FCR
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- EXISTING CONTOURS  
- Levels to AHD (0.10m interval)
- Gravel area: 50mm depth Class 3 FCR
- Landscape work: topsoil and seed (Refer: Typical details pg 2)
- Existing tree to be removed
- Landscape work: Mulched areas (Refer: Typical details pg 2)

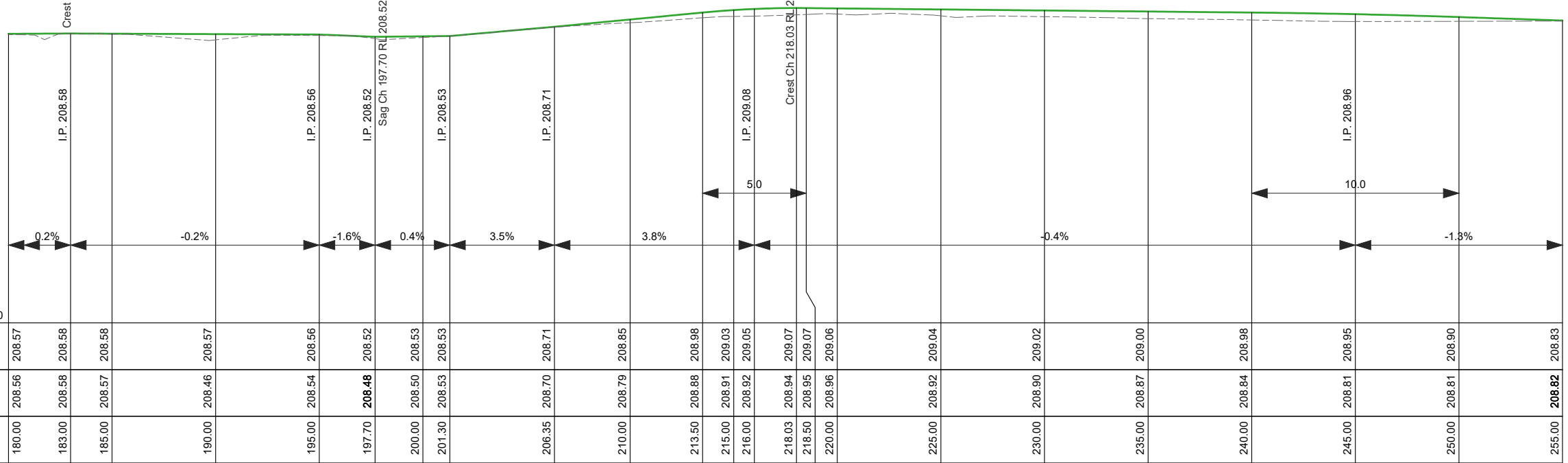
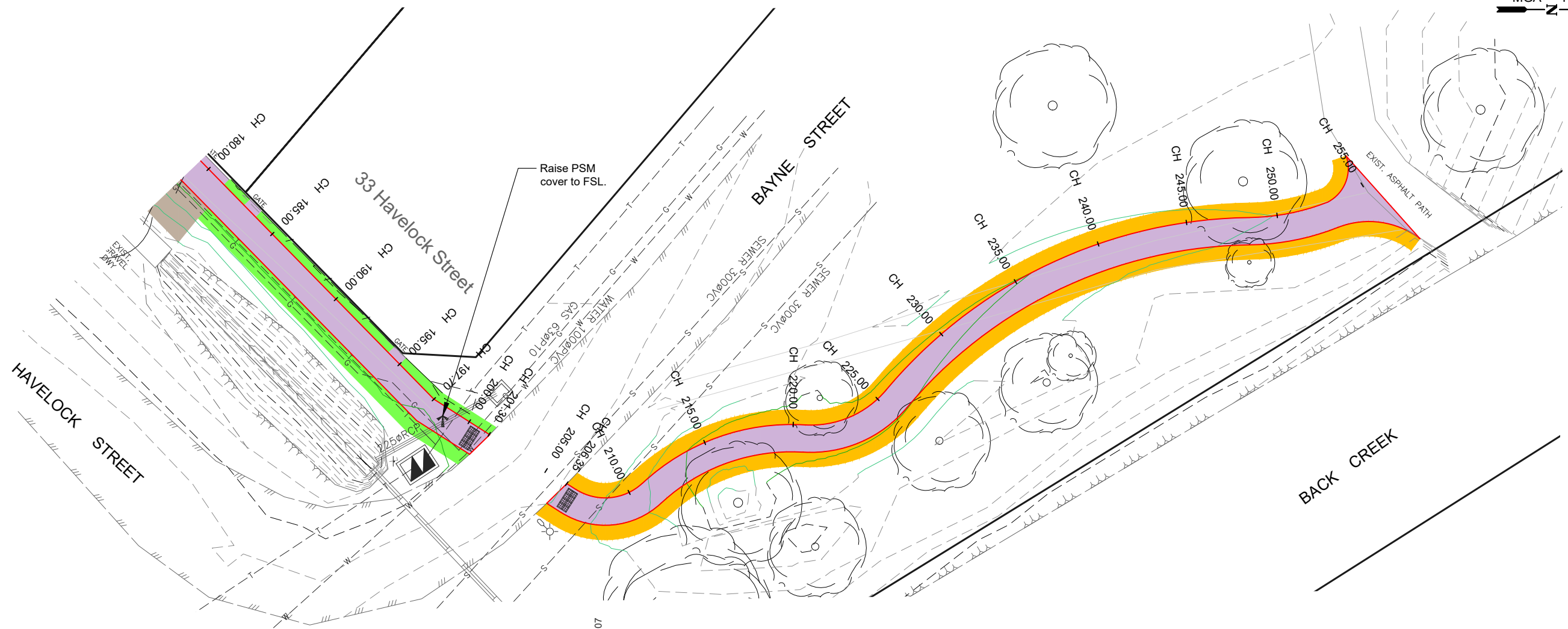


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Surveyor	D. MEADE	JAN. 2024
Designer	L. OLIVER	FEB. 2024
Draft Checked	A. SMITH	X/X/24
Tender Approved	N. SARTORI	X/X/24

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PROJECT TITLE	
Location:	HAVELOCK STREET
Suburb:	BENDIGO
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Reference:	GB5115

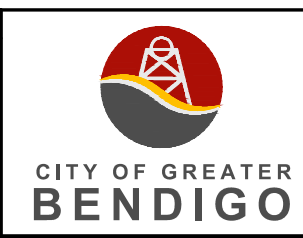
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LAYOUT PLAN & LONG SECTION		Sheet: 5 OF 10	A3
		Scale: 1:250	
Plot Date: 12/02/2024 By: Leigh Oliver			
AMENDMENTS			
Revision	Description	Approved by	Date
-	-	-	-
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-	-	-	-



BFP STREET LONGITUDINAL SECTION CH 180.000 To 255.000  
 SCALES: H 1:250 V 1:100 (A3)

**LEGEND**

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Surveyor	D. MEADE	JAN. 2024
Designer	L. OLIVER	FEB. 2024
Draft Checked	A. SMITH	X/X/24
Tender Approved	N. SARTORI	X/X/24

**PRELIMINARY DESIGN DRAFT 2**

**PROJECT TITLE**

Location: **HAVELOCK STREET**  
 Suburb: **BENDIGO**  
 Works: **FOOTPATH CONSTRUCTION**  
 Reference: **GB5115**

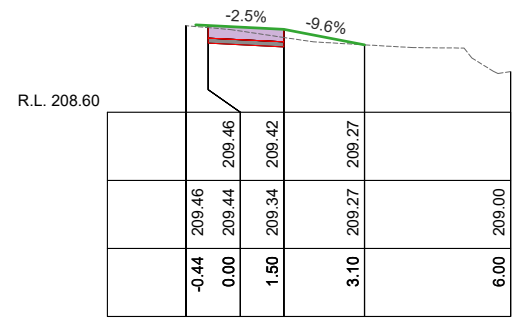
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LAYOUT PLAN & LONG SECTION

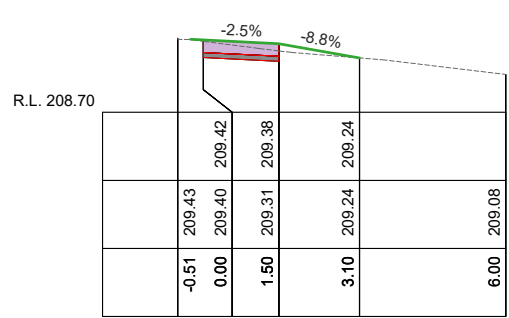
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 Plot Date: 12/02/2024 By: Leigh Oliver

**AMENDMENTS**

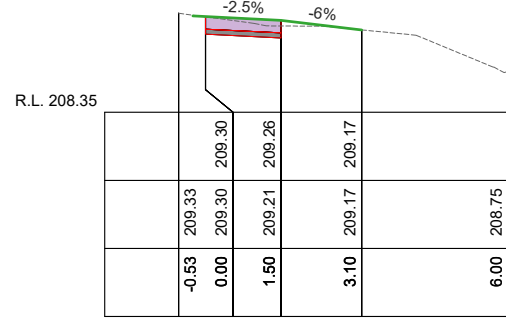
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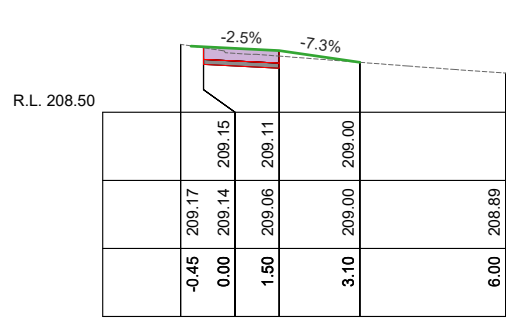
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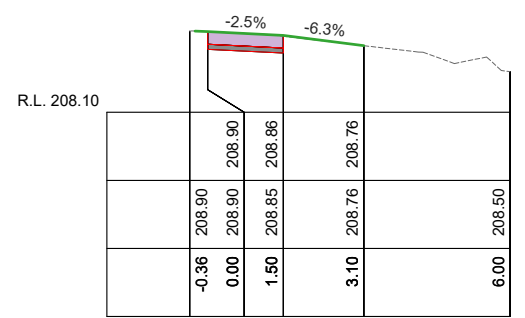
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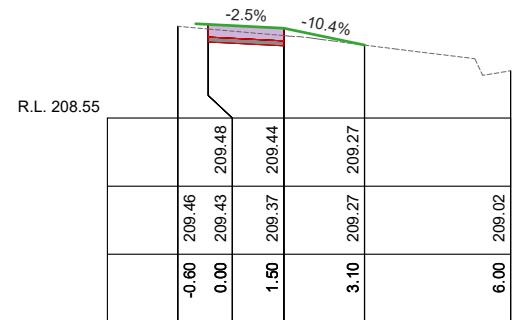
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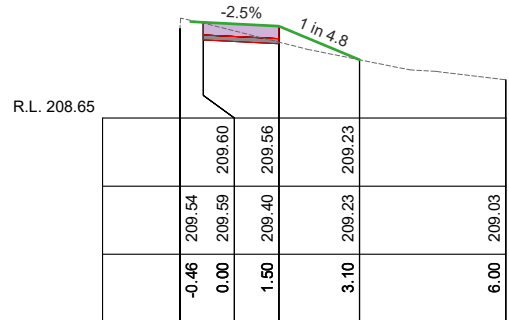
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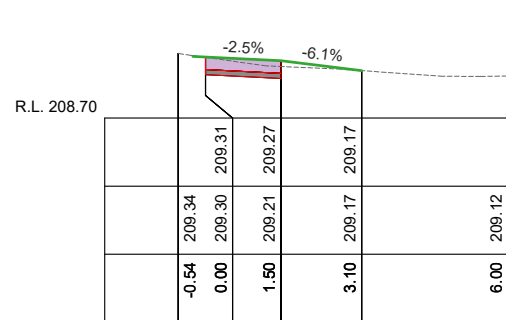
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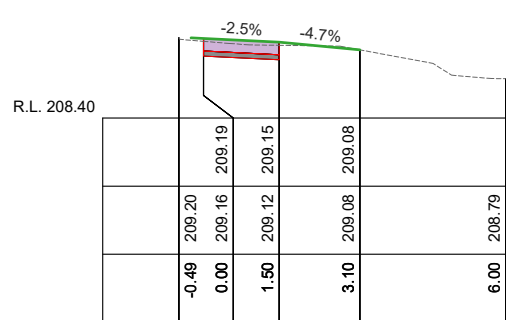
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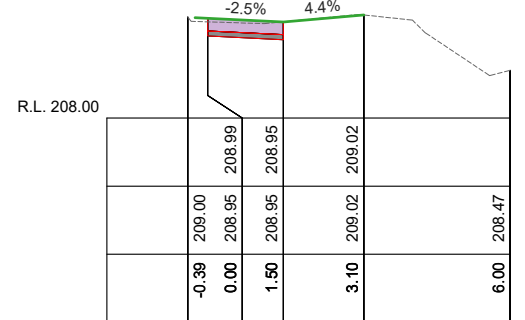
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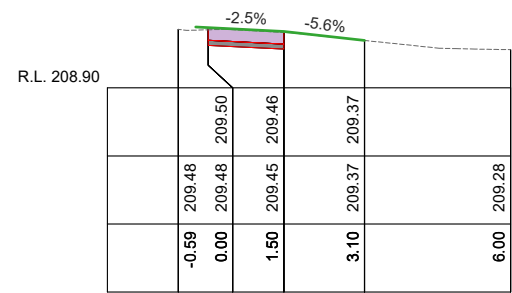
Ch 47.00



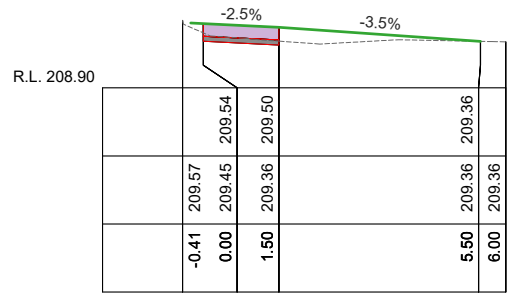
Ch 65.00



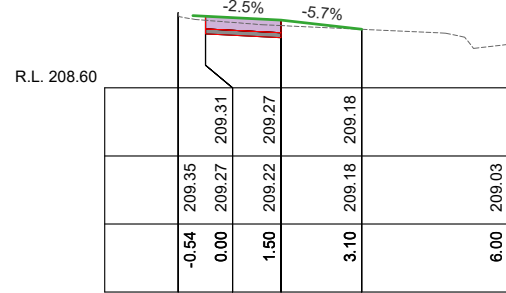
Ch 80.00



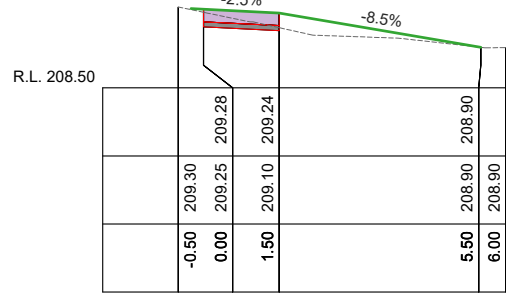
Ch 5.00



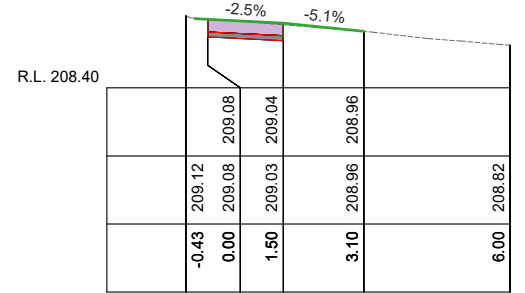
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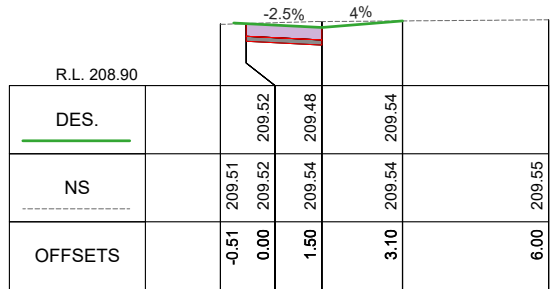
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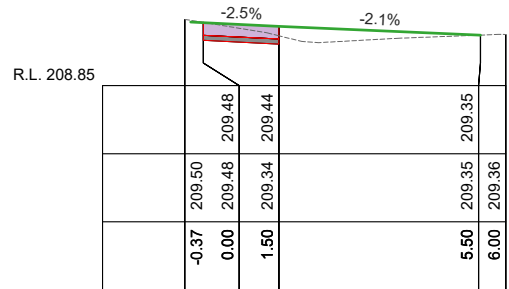
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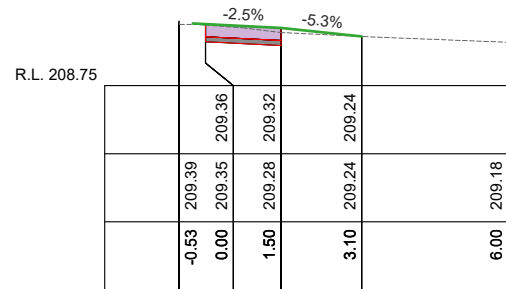
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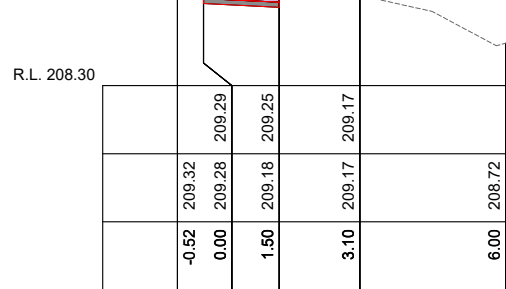
BFP CROSS SECTIONS Ch 0.00  
SCALES: H 1:150 V 1:75 (A3)



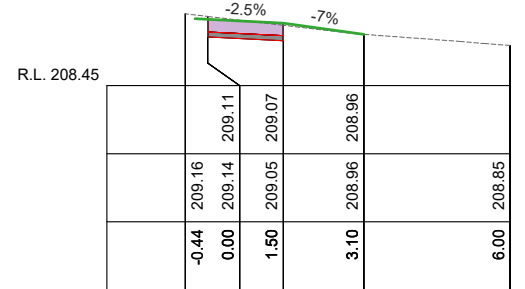
Ch 20.00



Ch 40.00



Ch 55.00



Ch 73.00



PROJECT DESIGN STATUS  
 Surveyor: D. MEADE, JAN. 2024  
 Designer: L. OLIVER, FEB. 2024  
 Draft Checked: A. SMITH, X/X/24  
 Tender Approved: N. SARTORI, X/X/24

**PRELIMINARY DESIGN DRAFT 2**

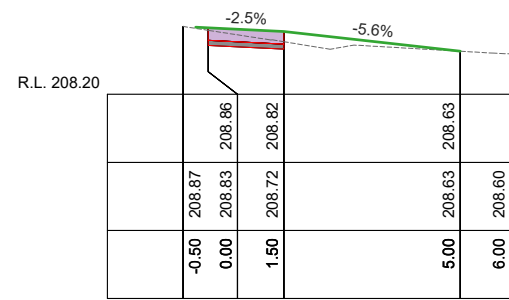
PROJECT TITLE  
 Location: HAVELOCK STREET  
 Suburb: BENDIGO  
 Works: FOOTPATH CONSTRUCTION  
 Reference: GB5115

SHEET DETAILS

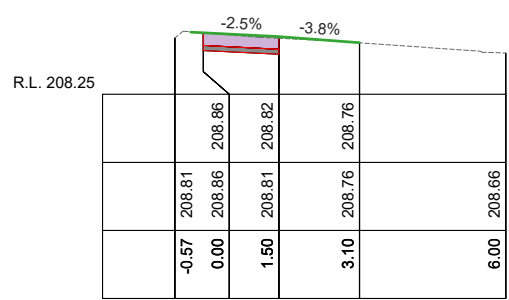
CROSS SECTIONS

Sheet: 7 OF 10  
 Scale: AS SHOWN A3  
 Plot Date: 12/02/2024 By: Leigh Oliver

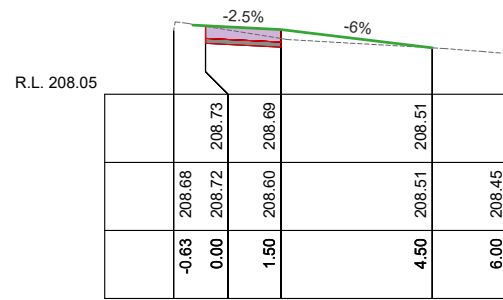
AMENDMENTS			
Revision	Description	Approved by	Date
-	-	-	-
-	-	-	-
-	-	-	-



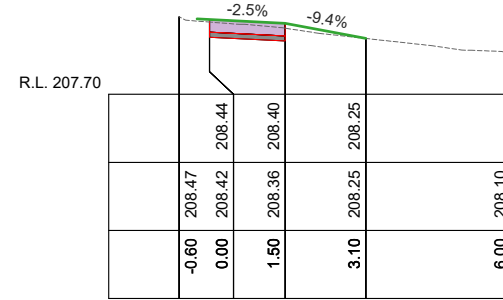
Ch 105.00



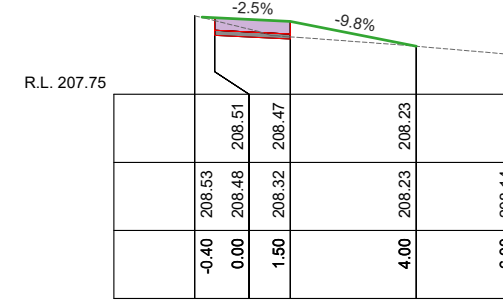
Ch 115.00



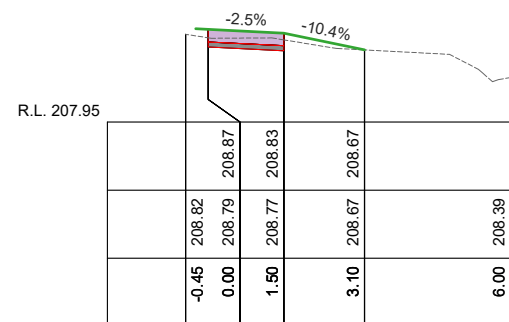
Ch 130.00



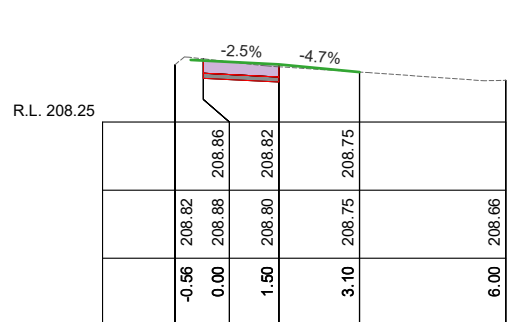
Ch 147.00



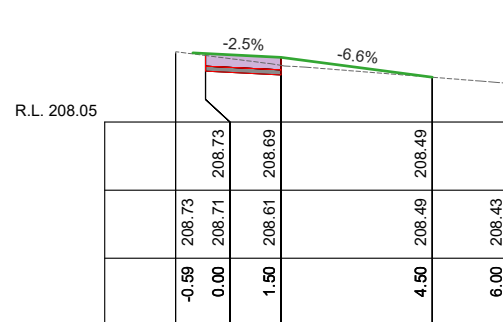
Ch 165.00



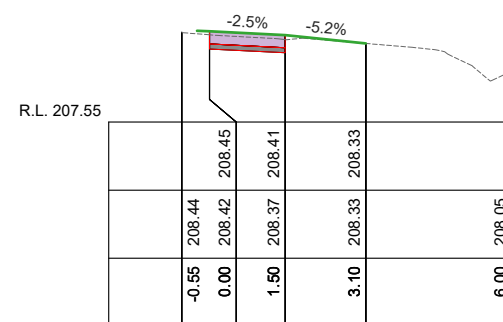
Ch 100.00



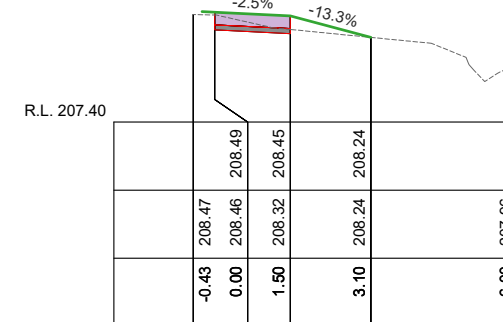
Ch 113.00



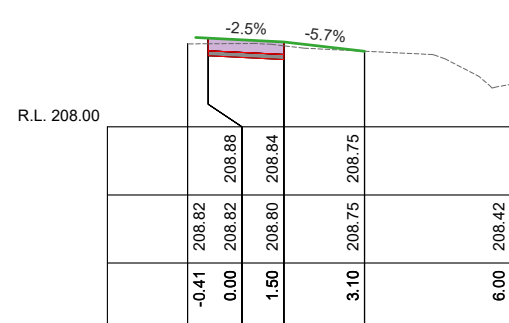
Ch 128.00



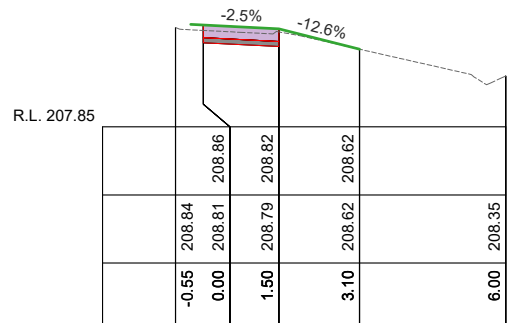
Ch 145.00



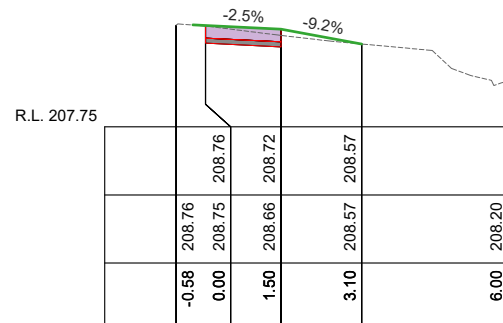
Ch 160.00



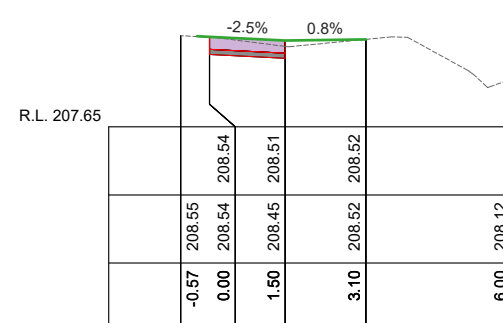
Ch 95.00



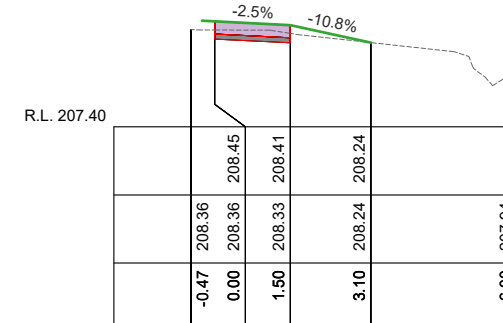
Ch 110.00



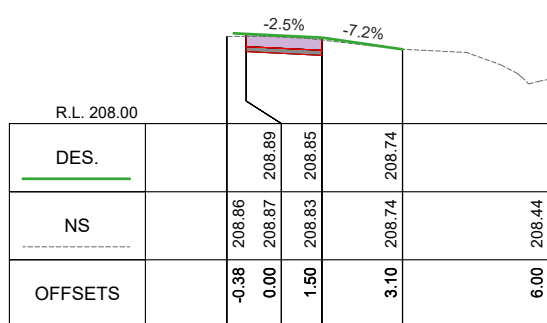
Ch 125.00



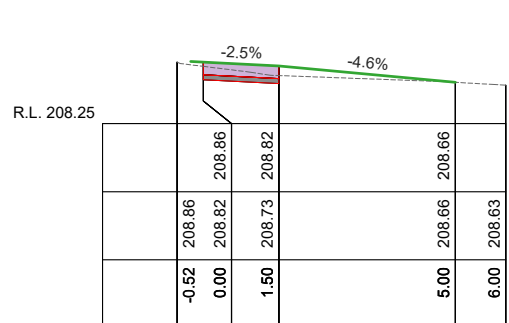
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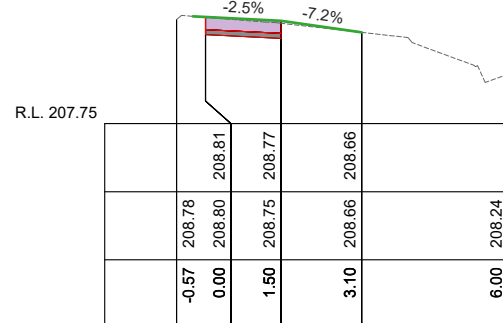
Ch 155.00



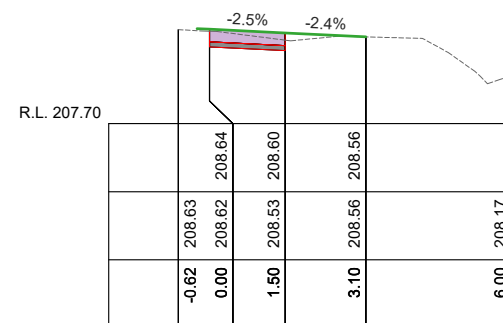
BFP CROSS SECTIONS Ch 90.00  
SCALES: H 1:150 V 1:75 (A3)



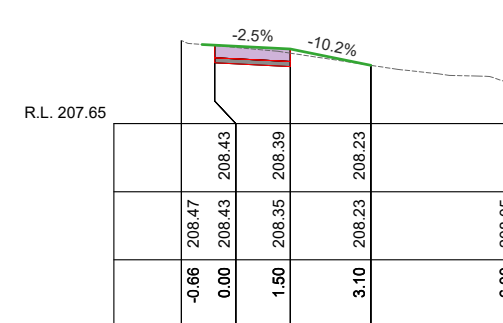
Ch 107.00



Ch 120.00



Ch 135.00



Ch 150.00



CITY OF GREATER BENDIGO

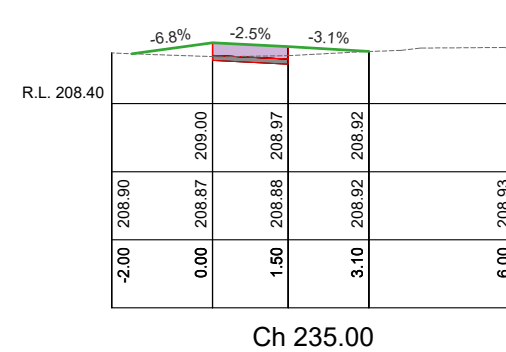
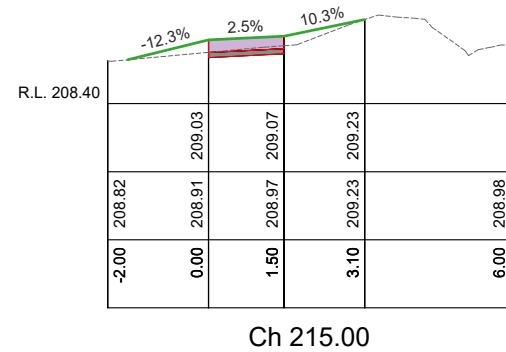
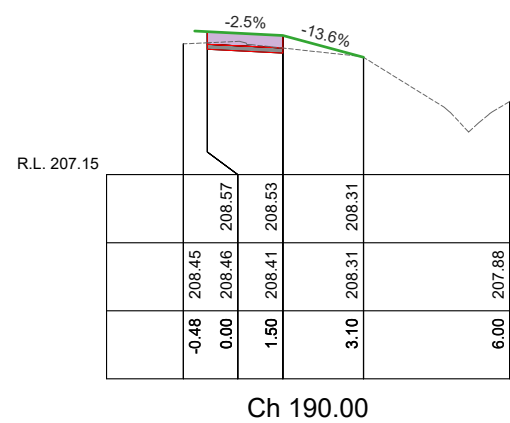
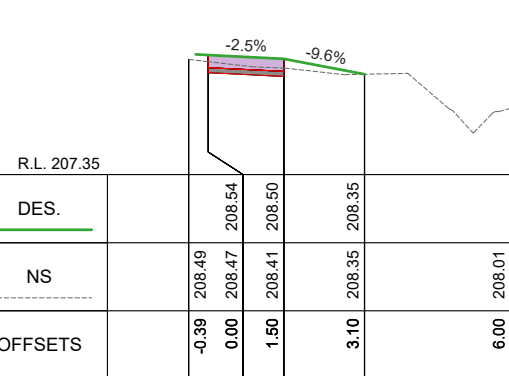
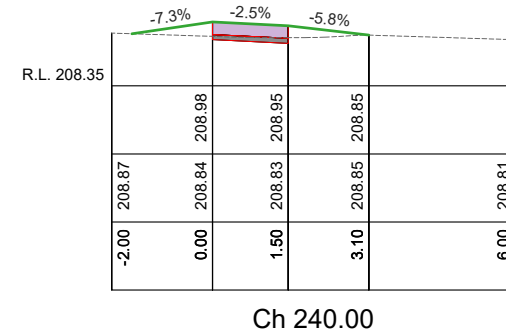
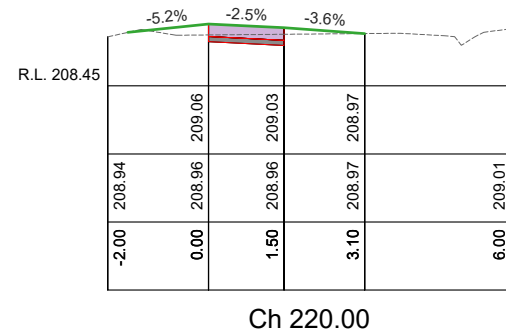
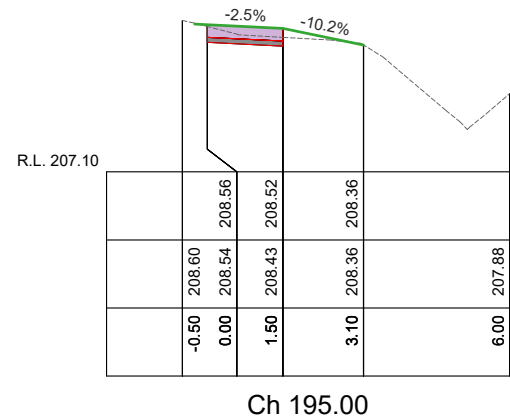
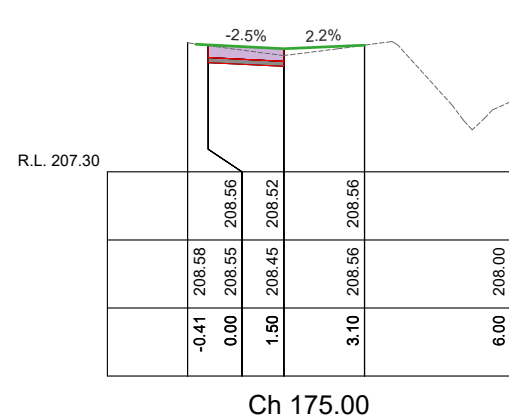
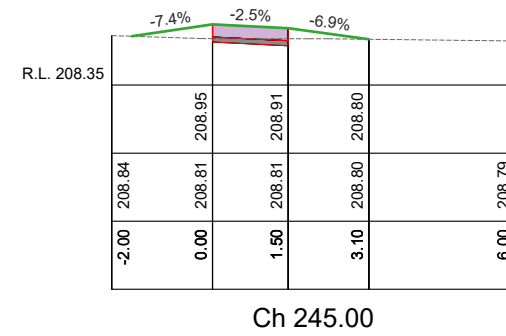
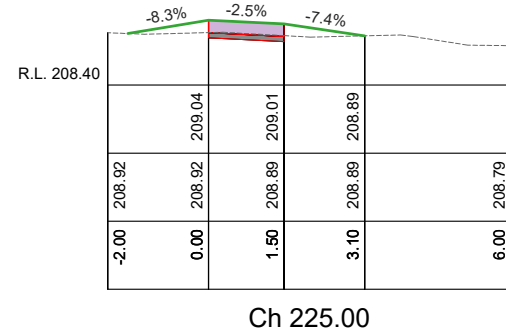
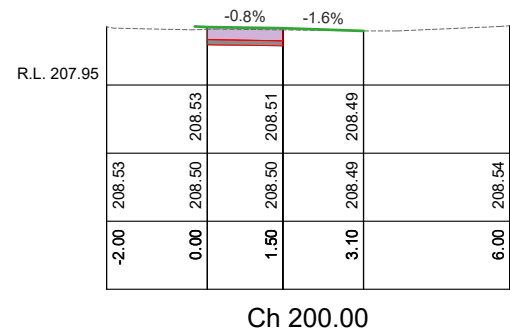
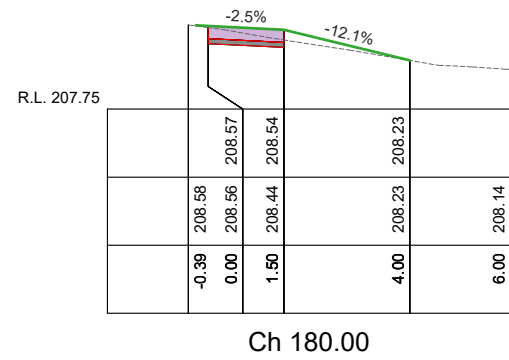
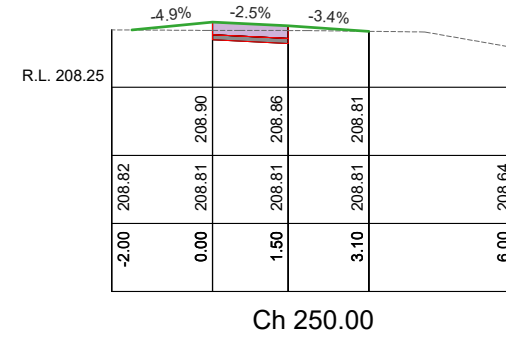
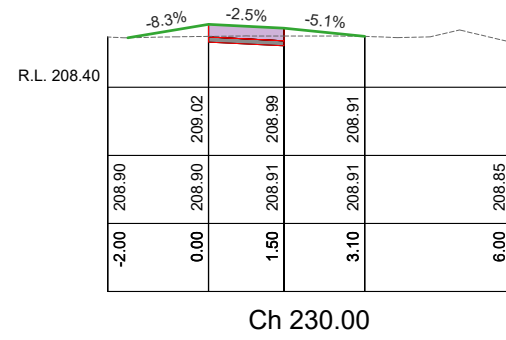
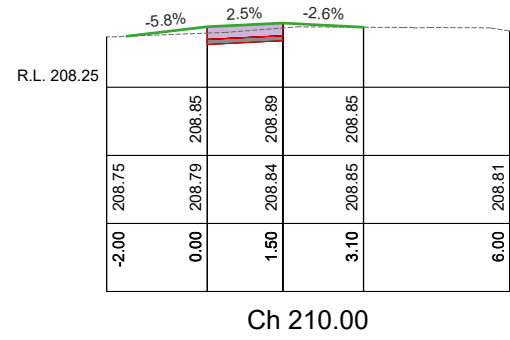
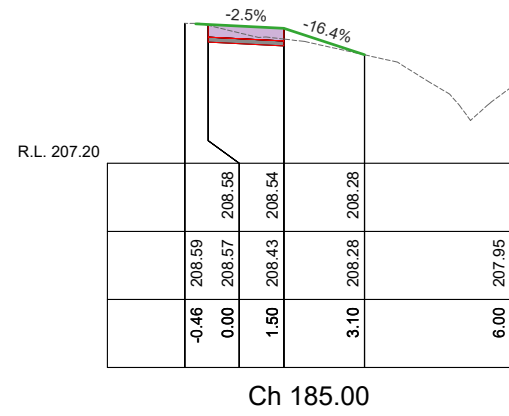
PROJECT DESIGN STATUS		
Surveyor	D. MEADE	JAN. 2024
Designer	L. OLIVER	FEB. 2024
Draft Checked	A. SMITH	X/X/24
Tender Approved	N. SARTORI	X/X/24

**PRELIMINARY DESIGN DRAFT 2**

PROJECT TITLE	
Location:	HAVELOCK STREET
Suburb:	BENDIGO
Works:	FOOTPATH CONSTRUCTION
Reference:	GB5115

SHEET DETAILS			
CROSS SECTIONS		Sheet:	8 OF 10
		Scale:	AS SHOWN A3
Plot Date: 12/02/2024 By: Leigh Oliver			
AMENDMENTS			
Revision	Description	Approved by	Date
-	-	-	-
-	-	-	-
-	-	-	-





BFP CROSS SECTIONS Ch 170.00  
 SCALES: H 1:150 V 1:75 (A3)



PROJECT DESIGN STATUS  
 Surveyor: D. MEADE JAN. 2024  
 Designer: L. OLIVER FEB. 2024  
 Draft Checked: A. SMITH X/X/24  
 Tender Approved: N. SARTORI X/X/24

**PRELIMINARY DESIGN  
 DRAFT 2**

PROJECT TITLE  
 Location: HAVELOCK STREET  
 Suburb: BENDIGO  
 Works: FOOTPATH CONSTRUCTION  
 Reference: GB5115

SHEET DETAILS			
CROSS SECTIONS		Sheet: 9 OF 10	Scale: AS SHOWN A3
Plot Date: 12/02/2024 By: Leigh Oliver			
AMENDMENTS			
Revision	Description	Approved by	Date
-	-	-	-
-	-	-	-
-	-	-	-

SETOUT SHOWN ON CONSTRUCTION PLANS



PROJECT DESIGN STATUS		
Surveyor	D. MEADE	JAN. 2024
Designer	L. OLIVER	FEB. 2024
Draft Checked	A. SMITH	X/X/24
Tender Approved	N. SARTORI	X/X/24

**PRELIMINARY DESIGN  
DRAFT 2**

PROJECT TITLE	
Location:	HAVELOCK STREET
Suburb:	BENDIGO
Works:	FOOTPATH CONSTRUCTION
Reference:	GB5115

SHEET DETAILS			
SETOUT		Sheet:	10 OF 10
		Scale:	1:250
Plot Date: 12/02/2024 By: Leigh Oliver			
AMENDMENTS			
Revision	Description	Approved by	Date
-	-	-	-
-	-	-	-
-	-	-	-