

BLUCHER STREET, STRATHFIELDSAYE

GB5315

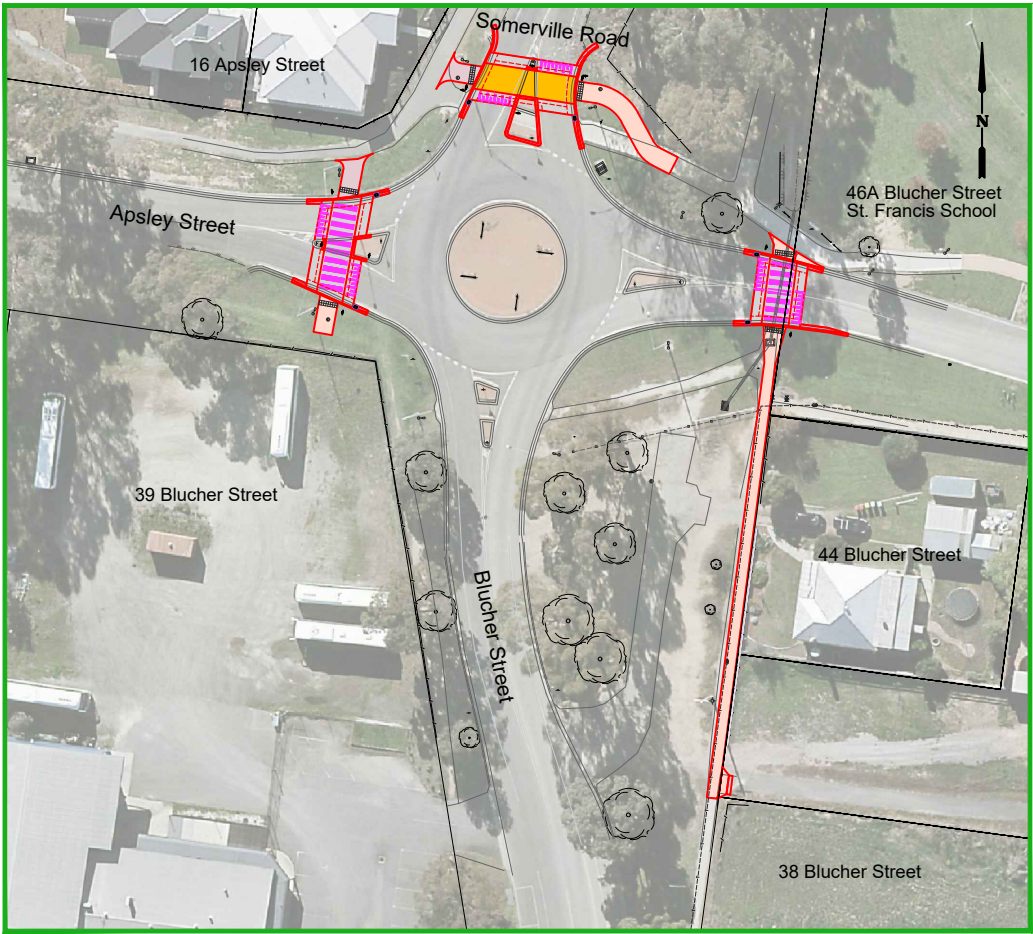
RAISED CROSSINGS

MARCH 2024

DOCUMENT CONTROL				
SHEET No.	SHEETD ESC.	18/03/2024	xx/xx/xx	xx/xx/xx
		DRAFT REVISION	TENDER REVISION	CONSTRUCTION REVISION
1	COVER SHEET	-		
2	GENERAL NOTES	-		
3	OVERALL LAYOUT & CONTROL	-		
4	DEMOLITION PLAN	-		
5	WEST CROSSING DETAILS	-		
6	NORTH CROSSING DETAILS	-		
7	EAST CROSSING DETAILS	-		
8	WEST & NORTH CROSSING CROSS SECTIONS	-		
9	EAST CROSSING CROSS SECTIONS	-		
10	DRAINAGE DETAILS	-		



LOCALITY MAP



PROJECT EXTENTS

APPROVAL TO CONSTRUCT STAMP		PROJECT PLANNING REQUIREMENTS				 CITY OF GREATER BENDIGO	PROJECT DESIGN STATUS			PROJECT DETAILS		SHEET DETAILS			
DO NOT CONSTRUCT WITHOUT STAMP	Item	Required	Comments	Contractor	Surveyor:		D. MEADES	23/01/24	Location: Blucher Street & Apsley Street	Suburb: Strathfieldsaye	Works: Raised Crossings	GB No: GB5315	COVER SHEET	Sheet number: 1 of 10	
	Vegetation	No	-		Designer:		B. JANSSEN	18/03/24						Plan Scale: - A3	
	RRV	Yes	MOA Required		Draft Checked:		A. SMITH	xx/xx/24						Plotted: 18/03/2024 By: Bayley Janssen	
	CMA	No	-		Tender Approved:		N. SARTORI	xx/xx/24							
	Planning Permit	No	-		PRELIMINARY DESIGN DRAFT 4			SHEET REVISIONS AFTER TENDER							
	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

ASPHALT AND SURFACE TREATMENTS

- 407 Dense Graded Asphalt

INCIDENTAL CONSTRUCTION

- 701 Underground Stormwater Drains
- 702 Subsurface Drainage
- 703 General Concrete Paving
- 704 Precast Concrete Kerb
- 705 Drainage Pits and Covers
- 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	MOA Required	
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

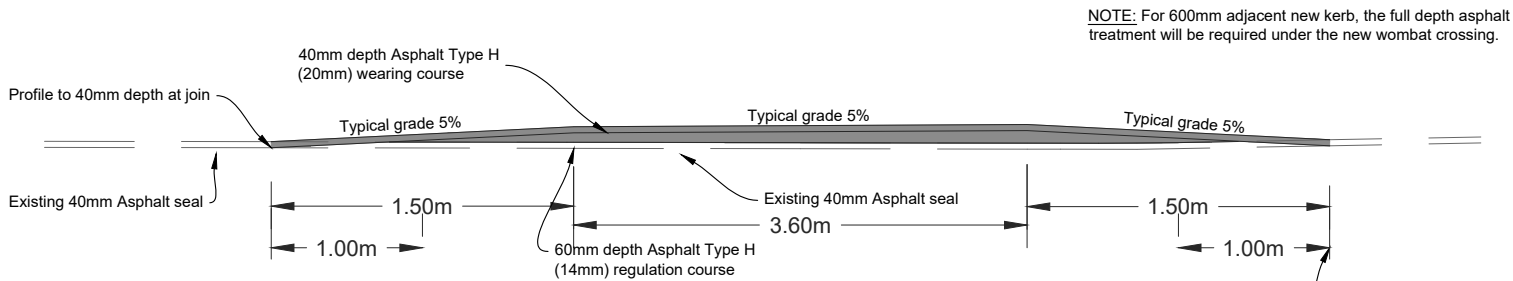
SITE ENVIRONMENTAL MANAGEMENT PLAN

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.



Typical Wombat Crossing Section
Scale 1:50



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 GPS, Strathfieldsaye PM 127

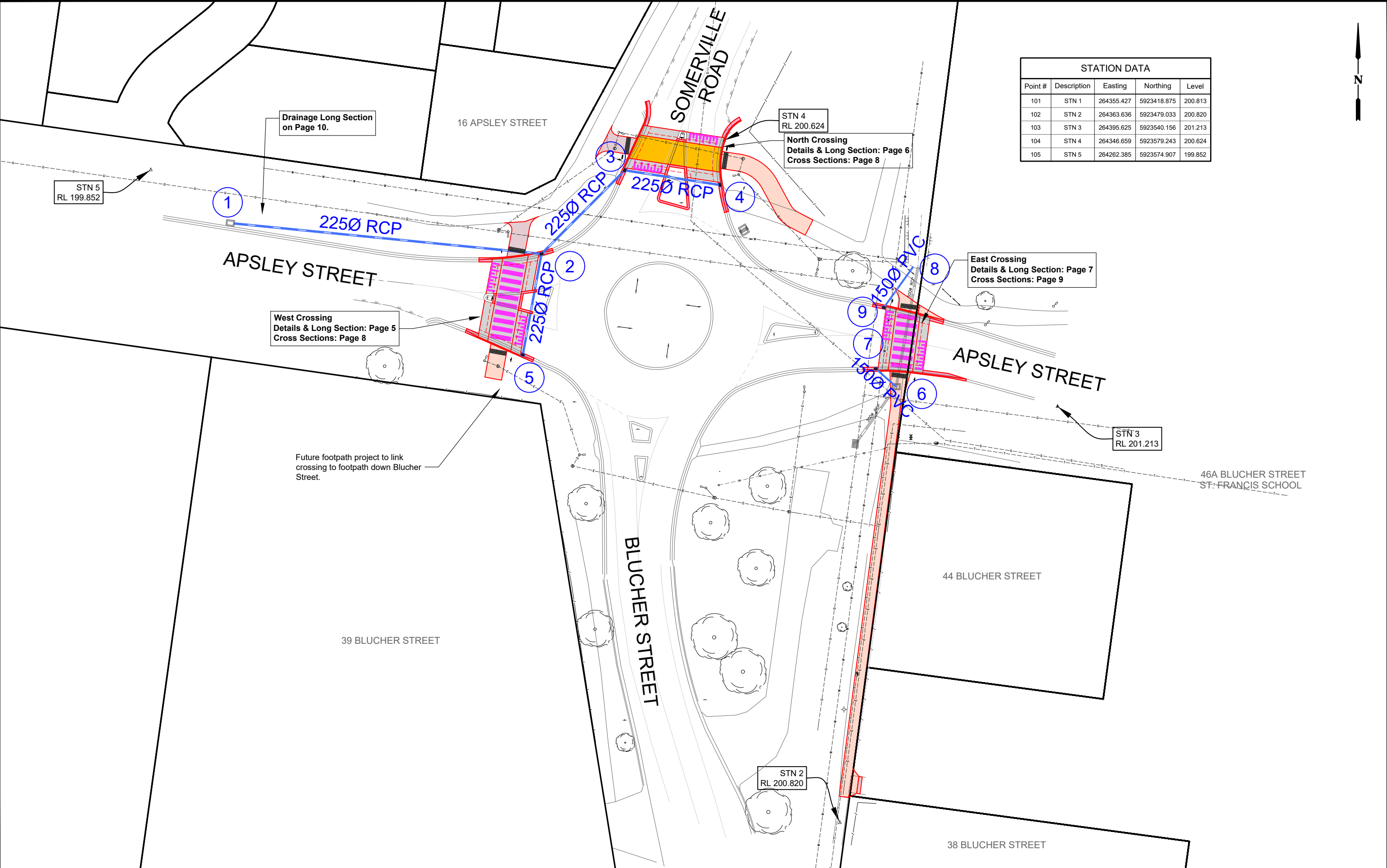


PROJECT DESIGN STATUS		
Surveyor:	D. MEADES	23/01/24
Designer:	B. JANSSEN	18/03/24
Draft Checked:	A. SMITH	xx/xx/24
Tender Approved:	N. SARTORI	xx/xx/24

**PRELIMINARY DESIGN
DRAFT 4**

PROJECT DETAILS	
Location:	Blucher Street & Apsley Street
Suburb:	Strathfieldsaye
Works:	Raised Crossings
GB No:	GB5315

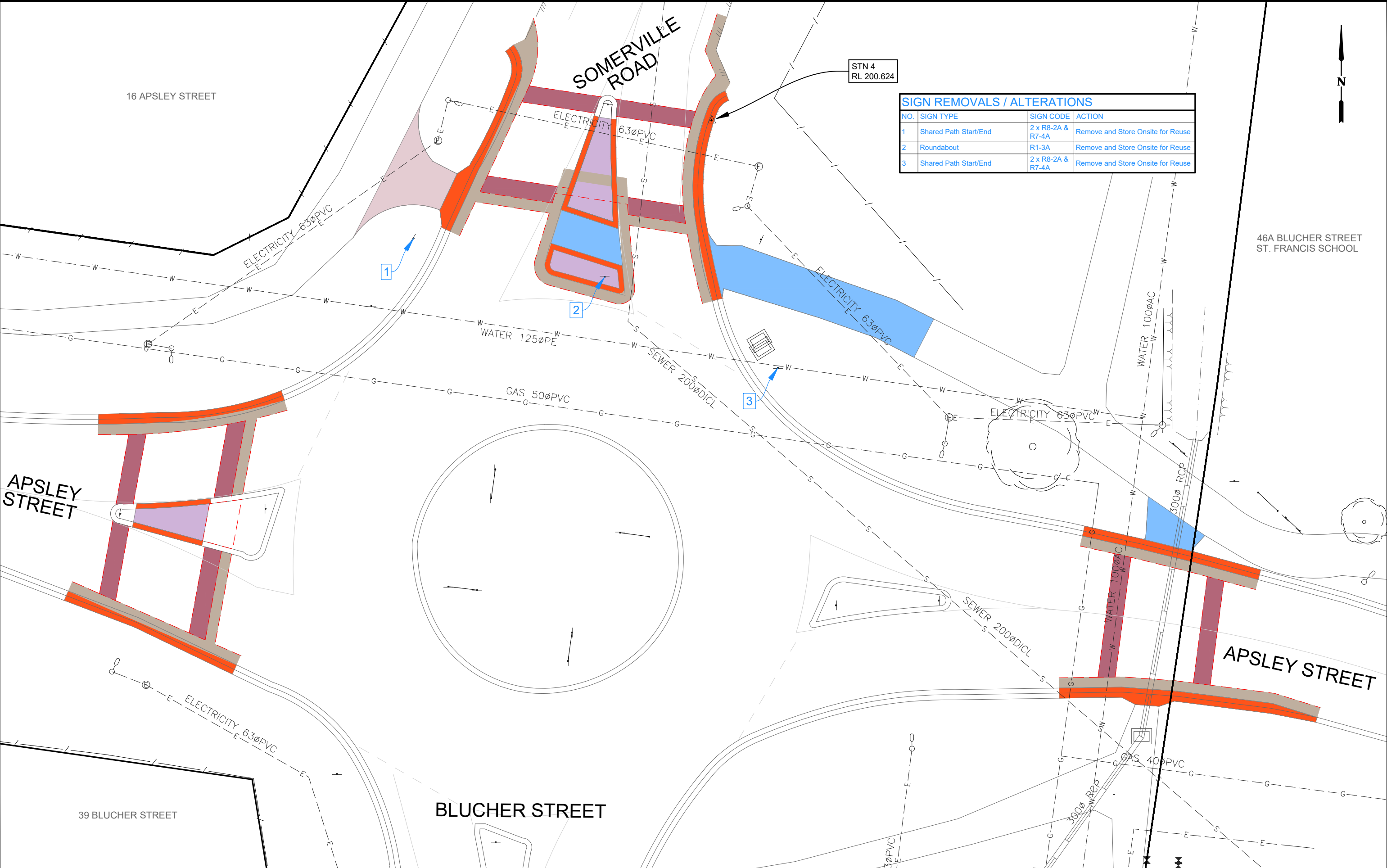
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GENERAL NOTES	Sheet number: 2 of 10
	Plan Scale: AS SHOWN A3
	Plotted: 18/03/2024 By: Bayley Janssen
SHEET REVISIONS AFTER TENDER	
Revision	Description
-	-
-	-
-	-



STATION DATA				
Point #	Description	Easting	Northing	Level
101	STN 1	264355.427	5923418.875	200.813
102	STN 2	264363.636	5923479.033	200.820
103	STN 3	264395.625	5923540.156	201.213
104	STN 4	264346.659	5923579.243	200.624
105	STN 5	264262.385	5923574.907	199.852

PROJECT DESIGN STATUS			PROJECT DETAILS		SHEET DETAILS					
Surveyor:	D. MEADES	23/01/24	Location:	Blucher Street & Apsley Street	OVERALL LAYOUT & CONTROL	Sheet number: 3 of 10				
Designer:	B. JANSSEN	18/03/24				Plan Scale: 1:500		A3		
Draft Checked:	A. SMITH	xx/xx/24				Plotted: 18/03/2024 By:Bayley Janssen				
Tender Approved:	N. SARTORI	xx/xx/24								
PRELIMINARY DESIGN DRAFT 4			Suburb:	Strathfieldsaye	SHEET REVISIONS AFTER TENDER					
			Works:	Raised Crossings	Revision	Description			Approved by	Date
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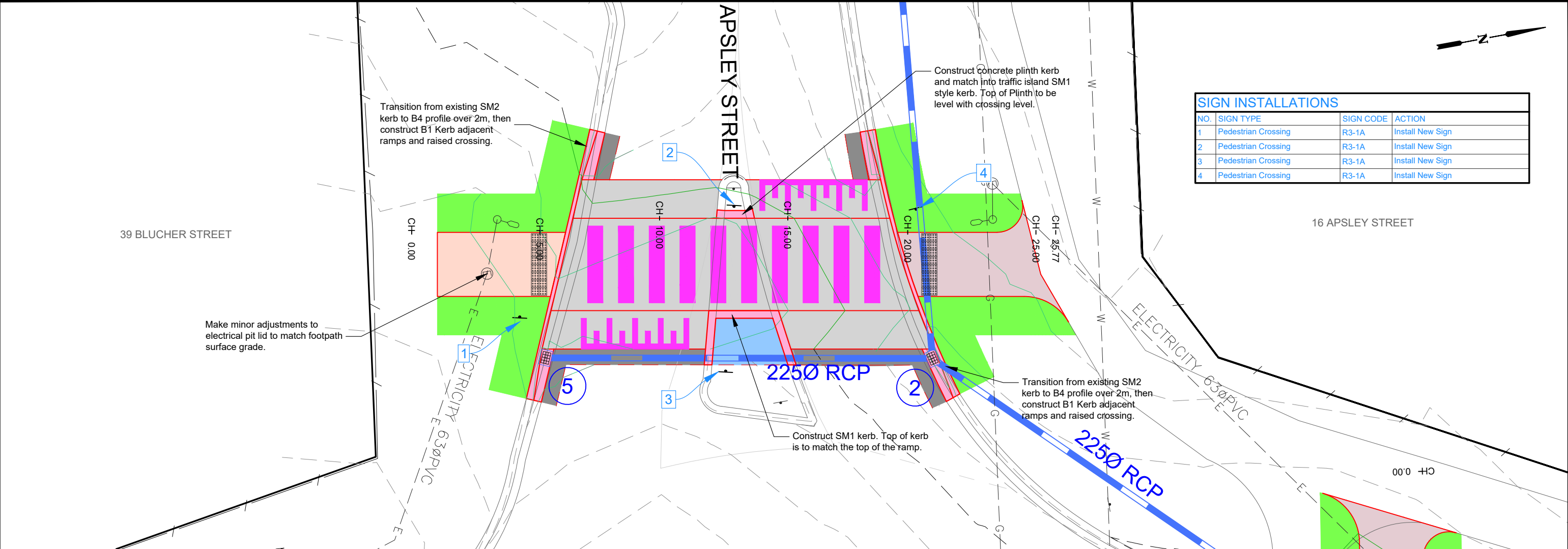


SIGN REMOVALS / ALTERATIONS			
NO.	SIGN TYPE	SIGN CODE	ACTION
1	Shared Path Start/End	2 x R8-2A & R7-4A	Remove and Store Onsite for Reuse
2	Roundabout	R1-3A	Remove and Store Onsite for Reuse
3	Shared Path Start/End	2 x R8-2A & R7-4A	Remove and Store Onsite for Reuse

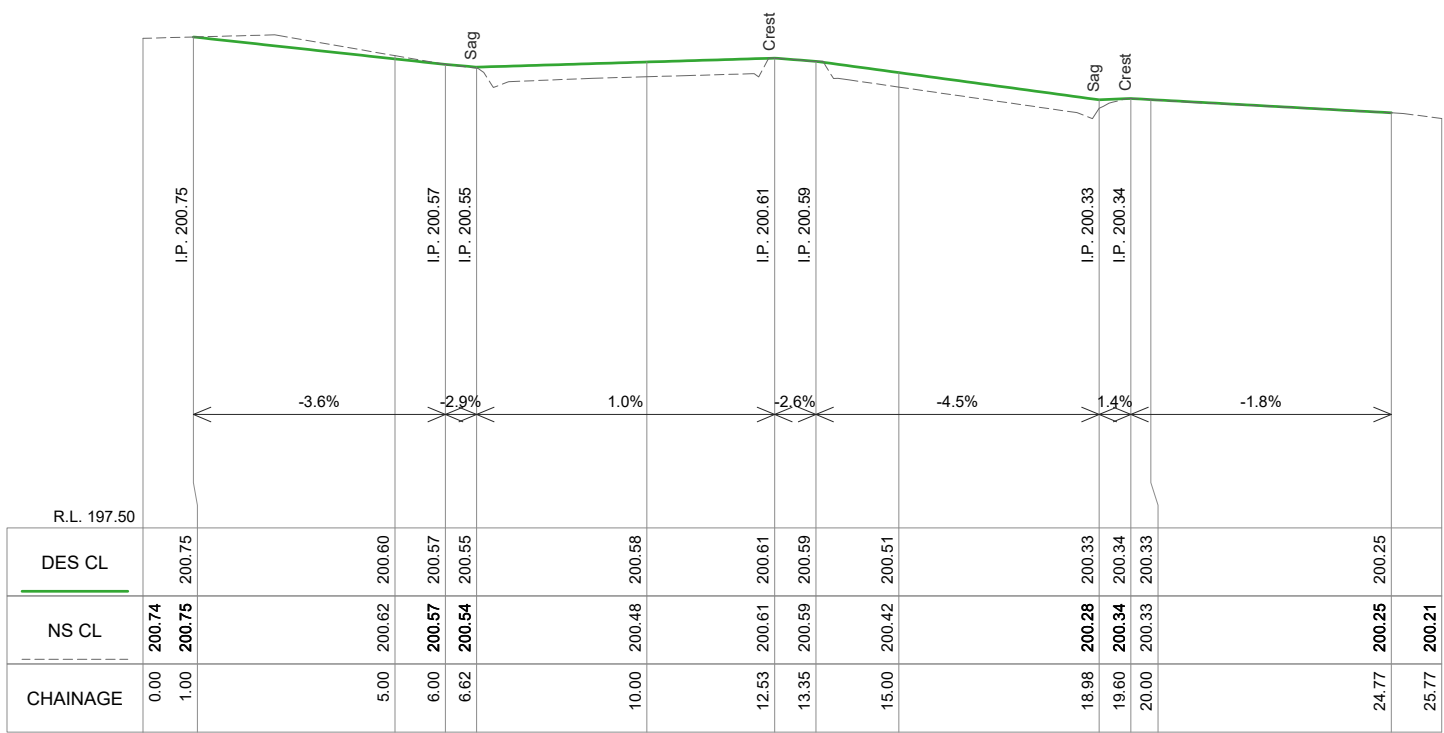
LEGEND					
	Removal: Pavement - 300mm Road Pavement		Removal: Pavement Surface - 40mm Asphalt		Removal: Linemarking
	Removal: Concrete Kerb		Removal: Asphalt Footpath		Removal: Sawcut
	Removal: Concrete Footpath		Removal: Brick paving		

CITY OF GREATER BENDIGO

PROJECT DESIGN STATUS			PROJECT DETAILS		SHEET DETAILS																														
Surveyor:	D. MEADES	23/01/24	Location:	Blucher Street & Apsley Street	Sheet number:	4 of 10																													
Designer:	B. JANSSEN	18/03/24	Suburb:	Strathfieldsaye	Plan Scale:	1:200																													
Draft Checked:	A. SMITH	xx/xx/24	Works:	Raised Crossings	Plotted:	18/03/2024 By: Bayley Janssen																													
Tender Approved:	N. SARTORI	xx/xx/24	GB No:	GB5315	<table><tr><th colspan="3">SHEET REVISIONS AFTER TENDER</th><th colspan="2">Approved by</th><th>Date</th></tr><tr><th>Revision</th><th>Description</th><th></th><th></th><th></th><th></th></tr><tr><td>-</td><td>-</td><td></td><td>-</td><td>-</td><td>-</td></tr><tr><td>-</td><td>-</td><td></td><td>-</td><td>-</td><td>-</td></tr><tr><td>-</td><td>-</td><td></td><td>-</td><td>-</td><td>-</td></tr></table>	SHEET REVISIONS AFTER TENDER			Approved by		Date	Revision	Description					-	-		-	-	-	-	-		-	-	-	-	-		-	-	-
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PRELIMINARY DESIGN DRAFT 4																																			



SIGN INSTALLATIONS			
NO.	SIGN TYPE	SIGN CODE	ACTION
1	Pedestrian Crossing	R3-1A	Install New Sign
2	Pedestrian Crossing	R3-1A	Install New Sign
3	Pedestrian Crossing	R3-1A	Install New Sign
4	Pedestrian Crossing	R3-1A	Install New Sign



WEST CROSSING LONGITUDINAL SECTION CH 0.000 To 25.771
SCALES: H 1:150 V 1:50 (A3)

LEGEND

DESIGN CONTOURS
- Levels to AHD (0.10m interval)

EXISTING CONTOURS
- Levels to AHD (0.10m interval)

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

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

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

Traffic Island Infill - Brick Paving
- Reuse existing bricks

Wombat Crossing
See Page 2 for Wombat Crossing Details

Pavement Area: Deep Lift Asphalt
- 40mm Type H (14mm)
- 190mm Type SI

Asphalt Footpath
- IIDM SD206

Gravel Driveway
- 50mm depth gravel

CITY OF GREATER
BENDIGO

PROJECT DESIGN STATUS

Surveyor: D. MEADES 23/01/24

Designer: B. JANSSEN 18/03/24

Draft Checked: A. SMITH xx/xx/24

Tender Approved: N. SARTORI xx/xx/24

PRELIMINARY DESIGN
DRAFT 4

PROJECT DETAILS

Location: Blucher Street & Apsley Street

Suburb: Strathfieldsaye

Works: Raised Crossings

GB No: GB5315

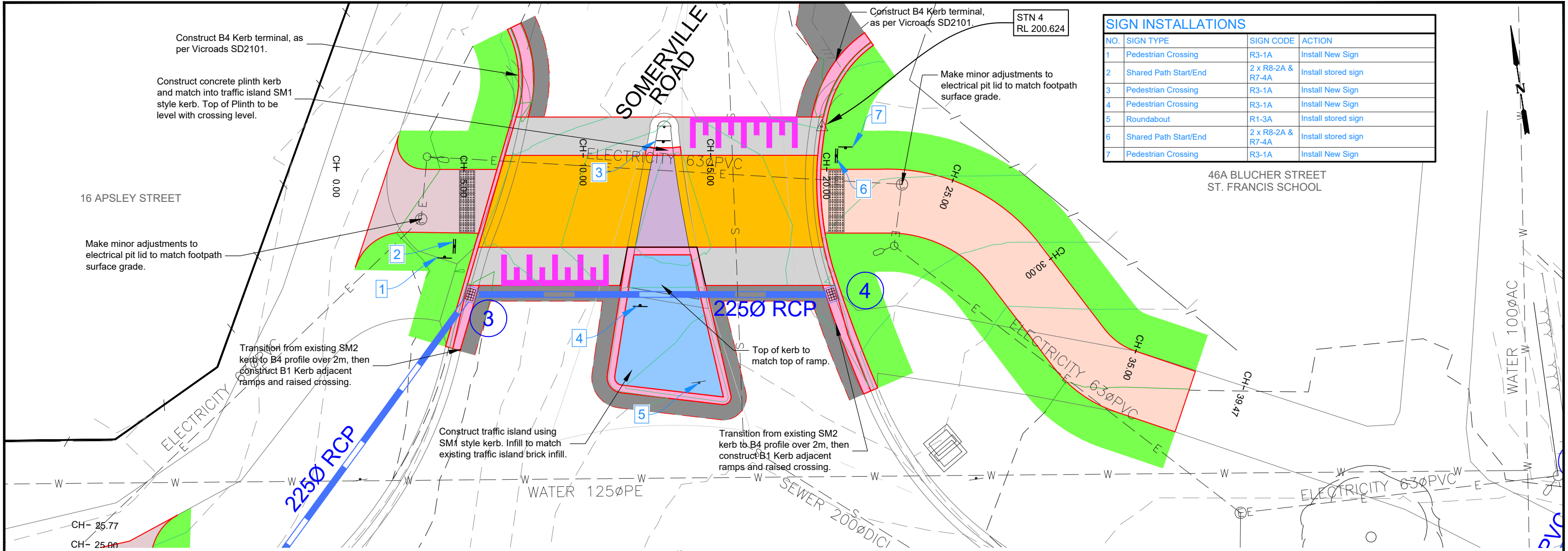
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WEST CROSSING
DETAILS

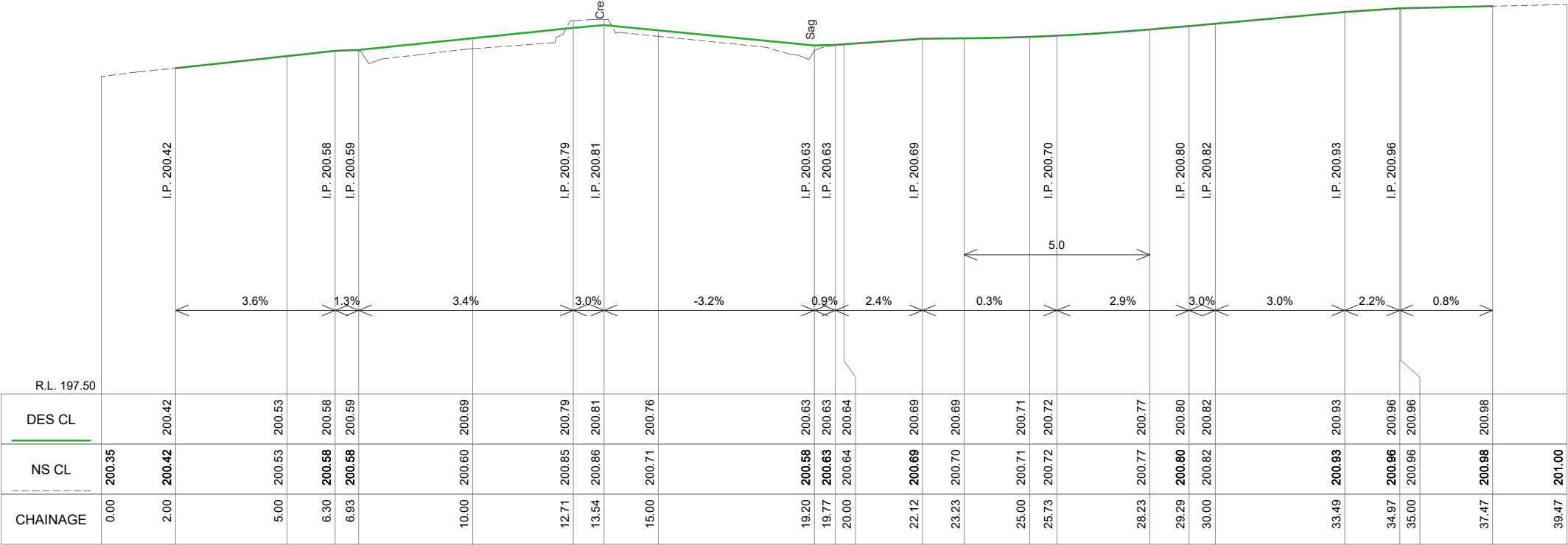
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Plan Scale: 1:150
Plotted: 18/03/2024 By: Bayley Janssen

SHEET REVISIONS AFTER TENDER

Revision	Description	Approved by	Date
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SIGN INSTALLATIONS			
NO.	SIGN TYPE	SIGN CODE	ACTION
1	Pedestrian Crossing	R3-1A	Install New Sign
2	Shared Path Start/End	2 x R8-2A & R7-4A	Install stored sign
3	Pedestrian Crossing	R3-1A	Install New Sign
4	Pedestrian Crossing	R3-1A	Install New Sign
5	Roundabout	R1-3A	Install stored sign
6	Shared Path Start/End	2 x R8-2A & R7-4A	Install stored sign
7	Pedestrian Crossing	R3-1A	Install New Sign



NORTH CROSSING LONGITUDINAL SECTION CH 0.000 To 39.471
SCALES: H 1:150 V 1:50 (A3)

DESIGN CONTOURS

- Levels to AHD (0.10m interval)

EXISTING CONTOURS

- Levels to AHD (0.10m interval)

Landscape work: Instant turf

(Refer: Typical details pg 2)

Concrete Footpath area: Normal plain

Footpath as per IDM SD 205 & SD210

Concrete Kerb area: Normal plain

Kerb per IDM SD100 & CoGB SD190,191,192

Traffic Island Infill - Brick Paving

- Reuse existing bricks

Wombat Crossing

See Page 2 for Wombat Crossing Details

Pavement Area: Deep Lift Asphalt

- 40mm Type H (14mm)

- 190mm Type SI

Asphalt Footpath

- IIDM SD206

Gravel Driveway

- 50mm depth gravel

CITY OF GREATER BENDIGO

PROJECT DESIGN STATUS

Surveyor: D. MEADES

23/01/24

Designer: B. JANSSEN

18/03/24

Draft Checked: A. SMITH

xx/xx/24

Tender Approved: N. SARTORI

xx/xx/24

PRELIMINARY DESIGN

DRAFT 4

PROJECT DETAILS

Location: Blucher Street & Apsley Street

Suburb: Strathfieldsaye

Works: Raised Crossings

GB No: GB5315

SHEET DETAILS

NORTH CROSSING DETAILS

Sheet number: 6 of 10

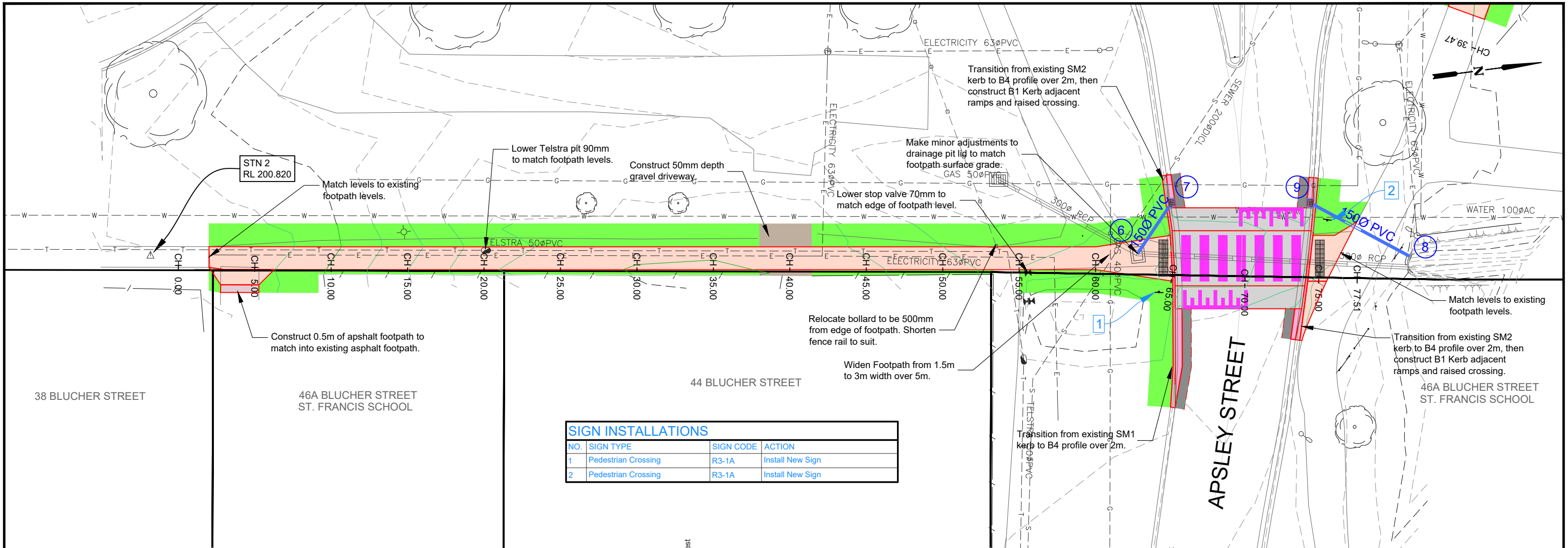
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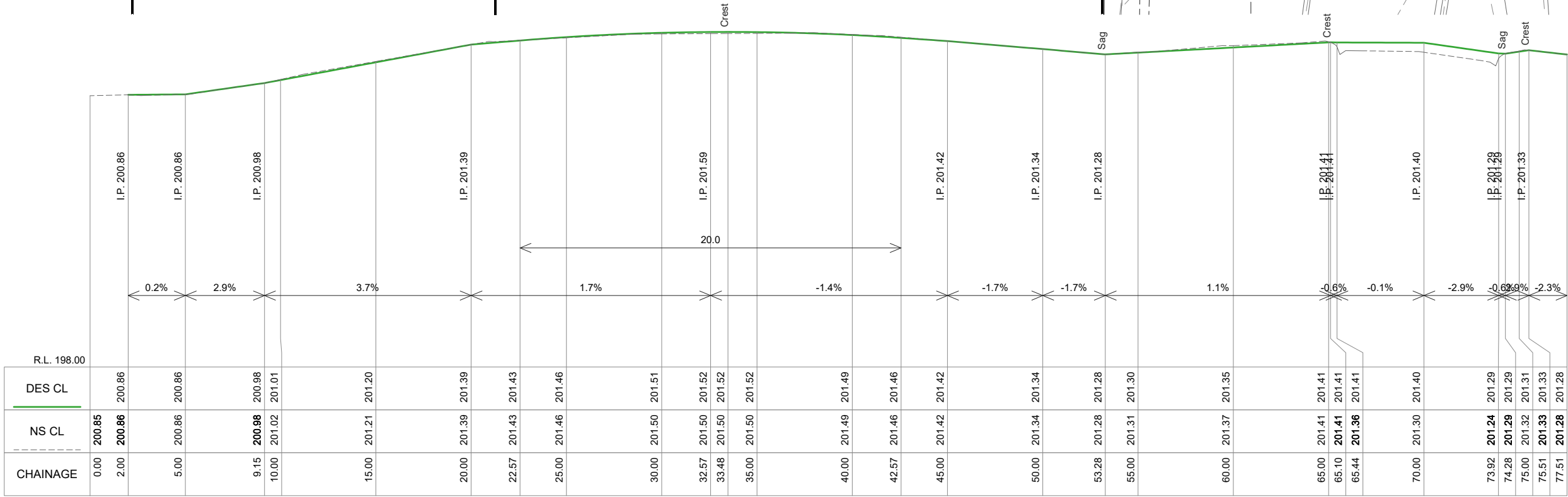
Plotted: 18/03/2024 By: Bayley Janssen

SHEET REVISIONS AFTER TENDER

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SIGN INSTALLATIONS			
NO.	SIGN TYPE	SIGN CODE	ACTION
1	Pedestrian Crossing	R3-1A	Install New Sign
2	Pedestrian Crossing	R3-1A	Install New Sign



EAST CROSSING LONGITUDINAL SECTION CH 0.000 To 77.511
SCALES: H 1:250 V 1:50 (A3)

LEGEND

DESIGN CONTOURS
- Levels to AHD (0.10m interval)

EXISTING CONTOURS
- Levels to AHD (0.10m interval)

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

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

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

Traffic Island Infill - Brick Paving
- Reuse existing bricks

Wombat Crossing
See Page 2 for Wombat Crossing Details

Pavement Area: Deep Lift Asphalt
- 40mm Type H (14mm)
- 190mm Type SI

Asphalt Footpath
- IIDM SD206

Gravel Driveway
- 50mm depth gravel

PROJECT DESIGN STATUS

Surveyor:

D. MEADES

23/01/24

Designer:

B. JANSSEN

18/03/24

Draft Checked:

A. SMITH

xx/xx/24

Tender Approved:

N. SARTORI

xx/xx/24

PRELIMINARY DESIGN
DRAFT 4

PROJECT DETAILS

Location:

Blucher Street & Apsley Street

Suburb:

Strathfieldsaye

Works:

Raised Crossings

GB No:

GB5315

SHEET DETAILS

EAST CROSSING
DETAILS

Sheet number:

7 of 10

Plan Scale:

1:250

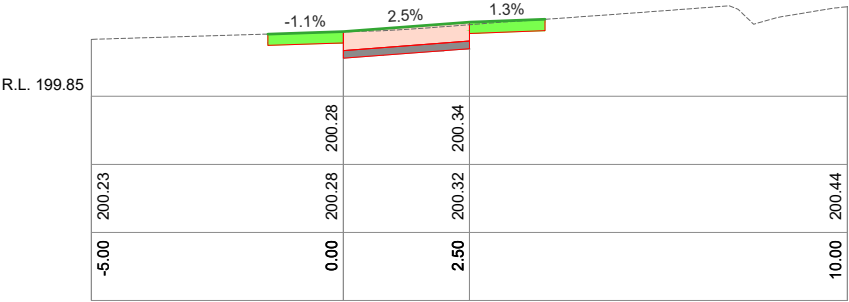
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18/03/2024

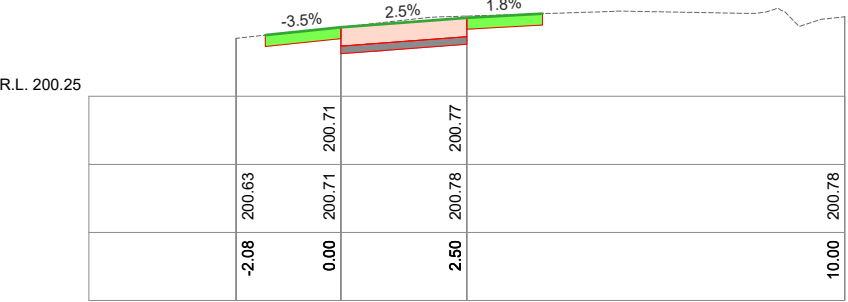
By: Bayley Janssen

SHEET REVISIONS AFTER TENDER

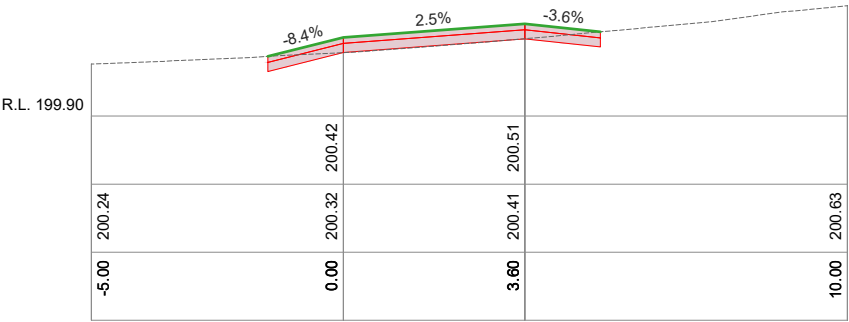
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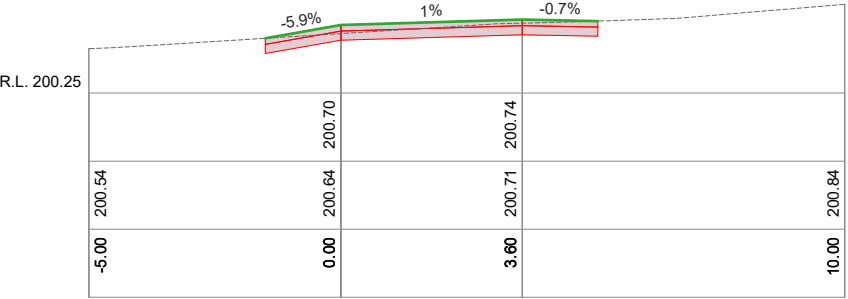
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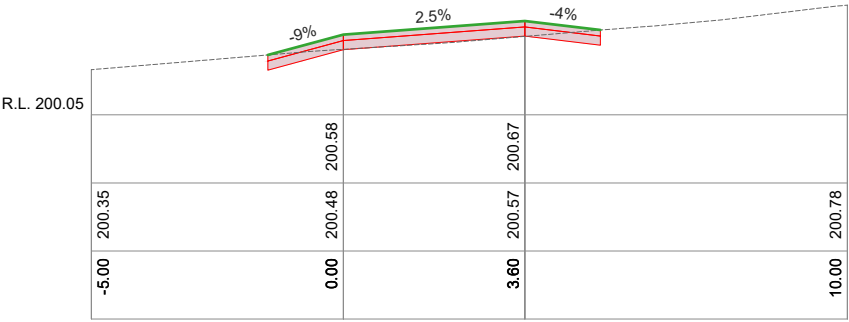
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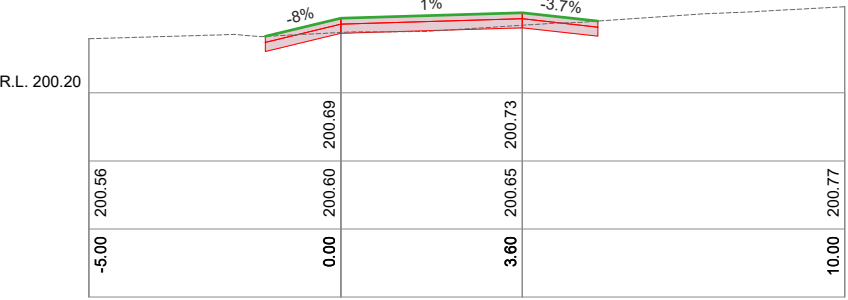
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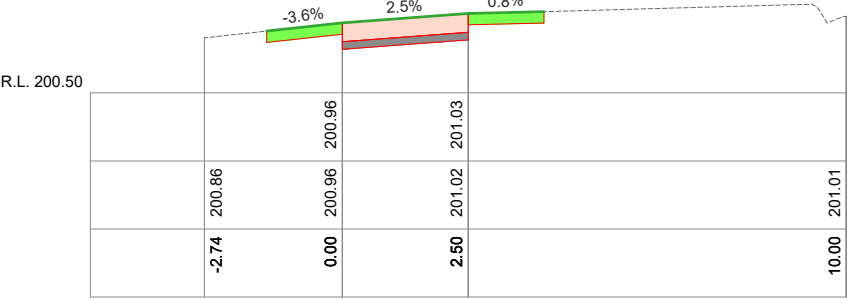
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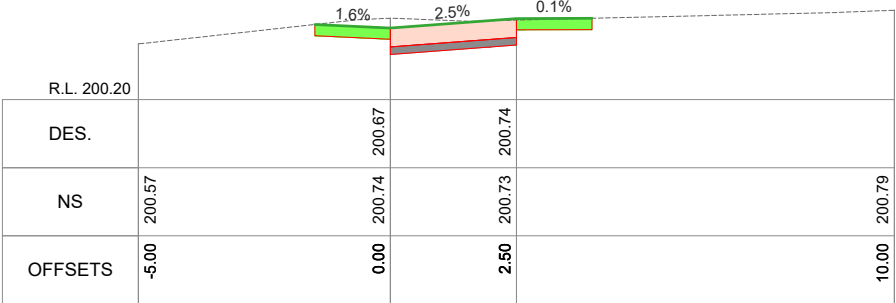
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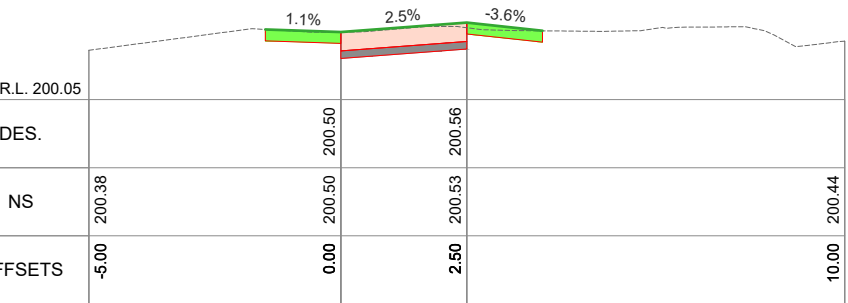
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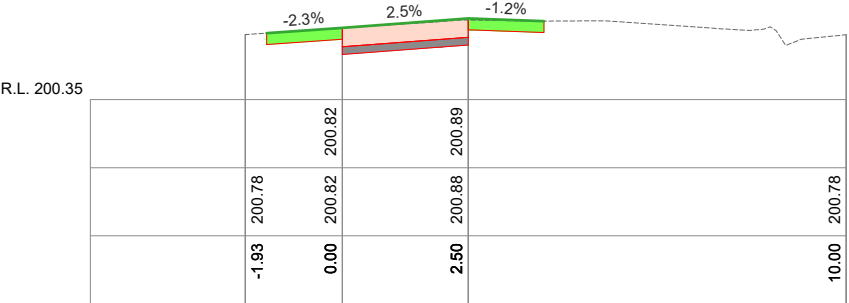
Ch 35.00



Ch 3.00



Ch 4.00



Ch 30.00

WEST CROSSING CROSS SECTIONS
SCALES: H 1:150 V 1:50 (A3)

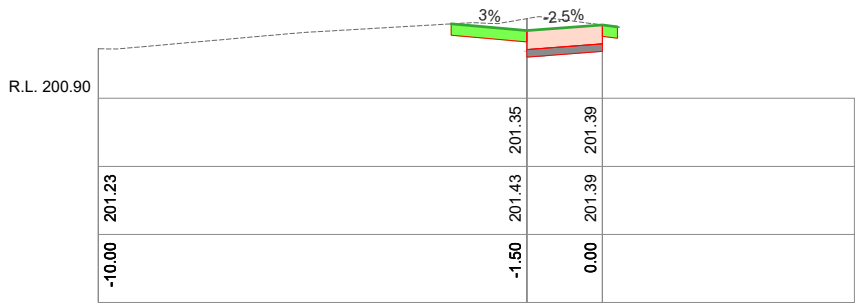
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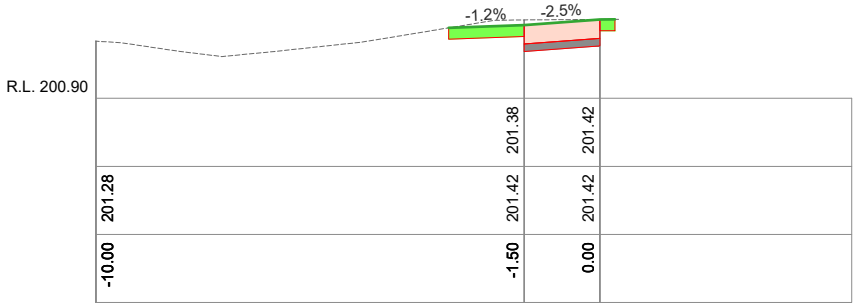
PROJECT DESIGN STATUS		
Surveyor:	D. MEADES	23/01/24
Designer:	B. JANSSEN	18/03/24
Draft Checked:	A. SMITH	xx/xx/24
Tender Approved:	N. SARTORI	xx/xx/24
PRELIMINARY DESIGN DRAFT 4		

PROJECT DETAILS	
Location:	Blucher Street & Apsley Street
Suburb:	Strathfieldsaye
Works:	Raised Crossings
GB No:	GB5315

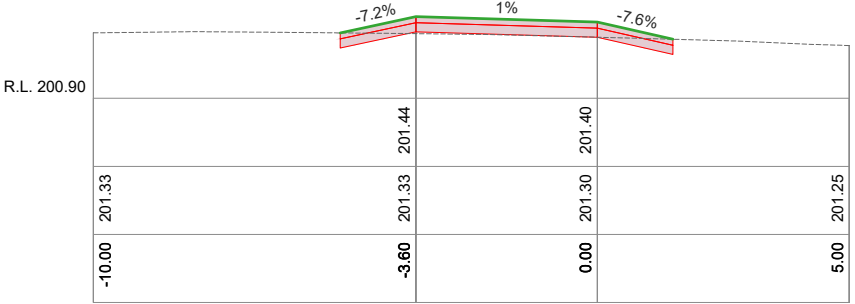
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WEST & NORTH CROSSING CROSS SECTIONS		Sheet number:	8 of 10
		Plan Scale:	1:150 A3
		Plotted:	18/03/2024 By: Bayley Janssen
SHEET REVISIONS AFTER TENDER			
Revision	Description	Approved by	Date
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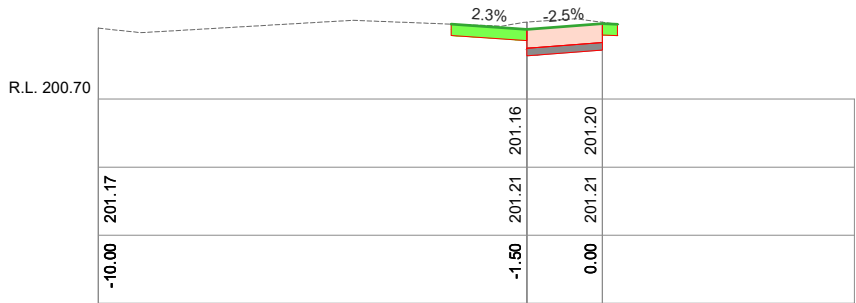
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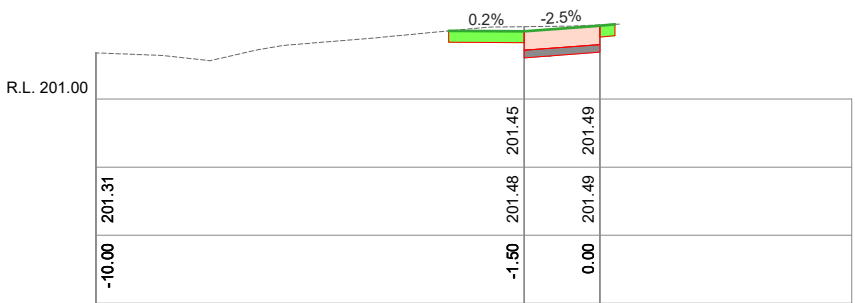
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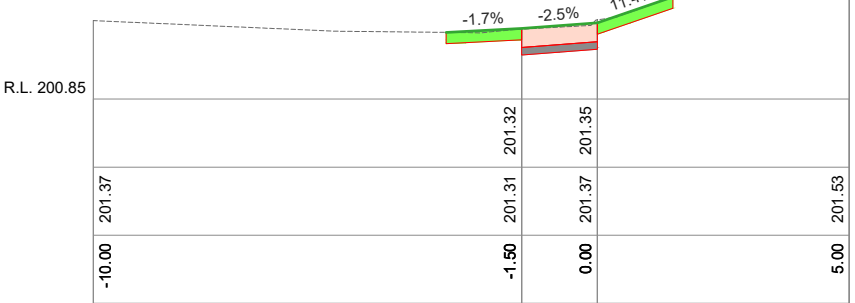
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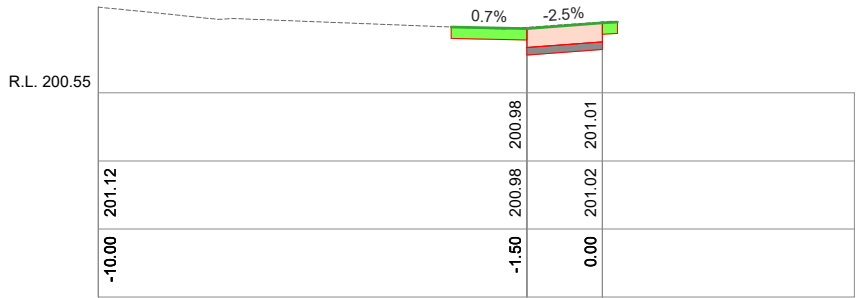
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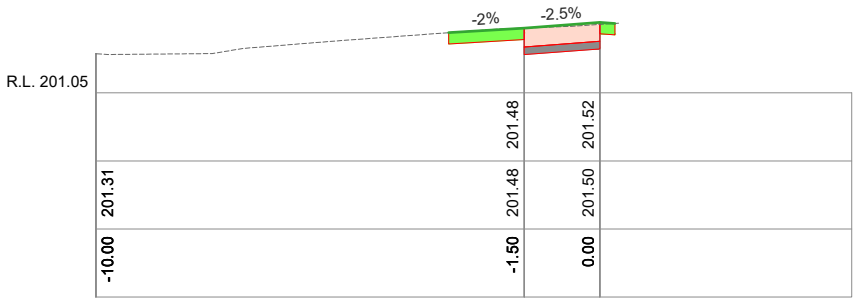
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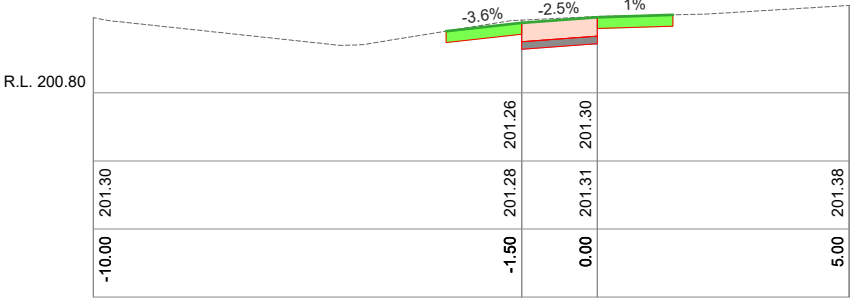
Ch 60.00



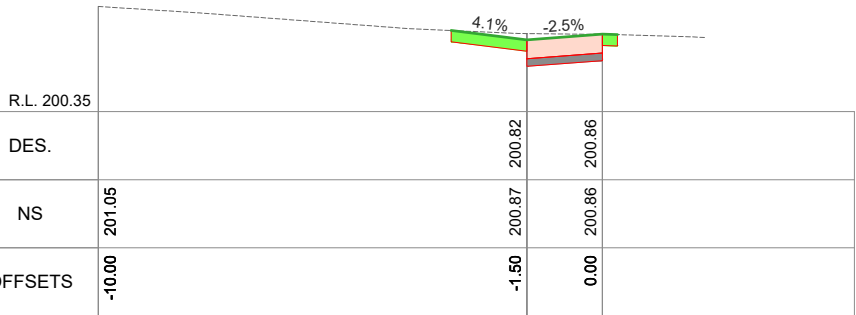
Ch 10.00



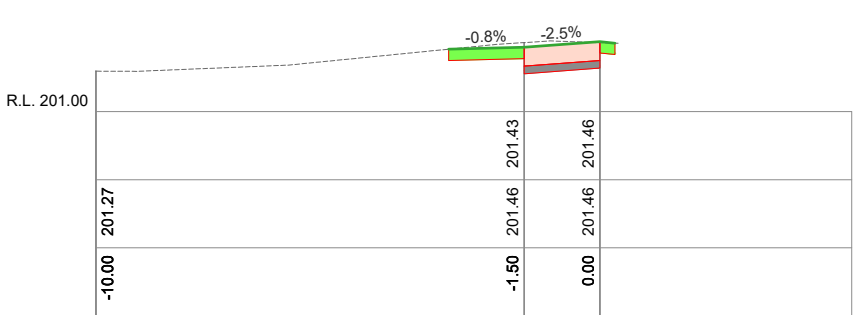
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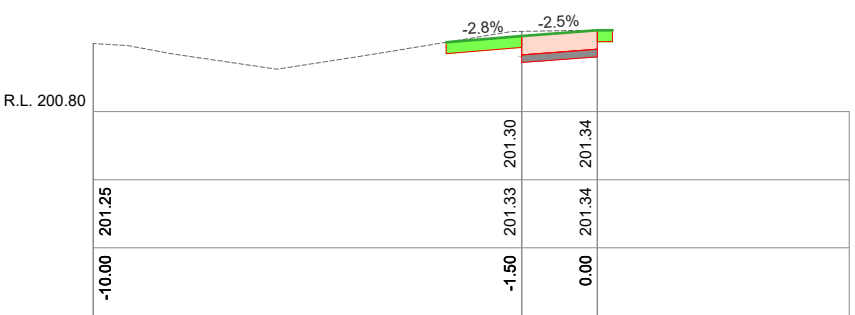
Ch 55.00



Ch 5.00



Ch 25.00



Ch 50.00

EAST CROSSING CROSS SECTIONS
SCALES: H 1:150 V 1:50 (A3)

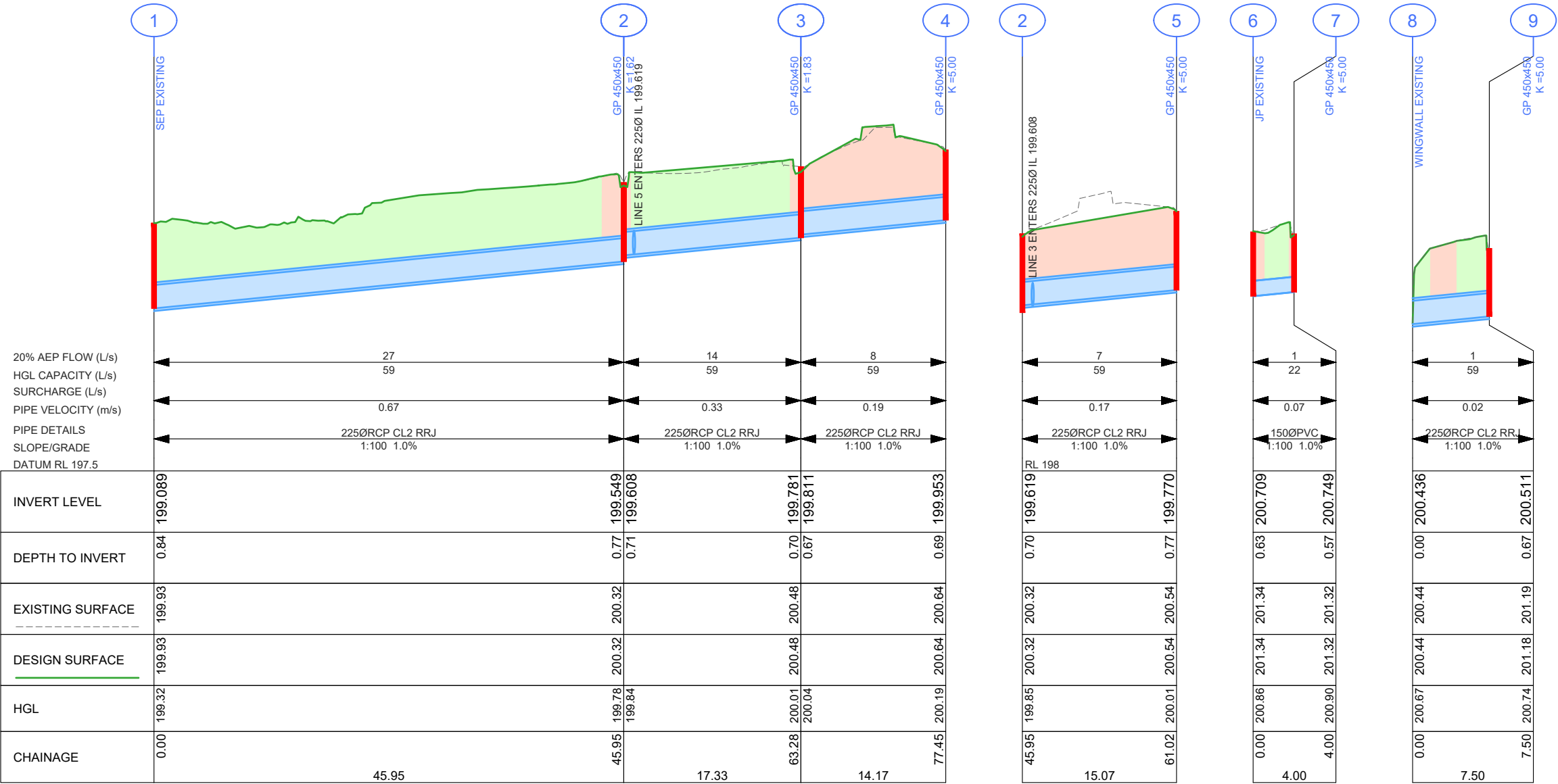


PROJECT DESIGN STATUS		
Surveyor:	D. MEADES	23/01/24
Designer:	B. JANSSEN	18/03/24
Draft Checked:	A. SMITH	xx/xx/24
Tender Approved:	N. SARTORI	xx/xx/24
PRELIMINARY DESIGN DRAFT 4		

PROJECT DETAILS	
Location:	Blucher Street & Apsley Street
Suburb:	Strathfieldsaye
Works:	Raised Crossings
GB No:	GB5315

SHEET DETAILS		
EAST CROSSING CROSS SECTIONS		Sheet number: 9 of 10
		Plan Scale: 1:150 A3
		Plotted: 18/03/2024 By: Bayley Janssen
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	EXISTING SEP	-	-			225	199.089	0.836	199.925
2	Grated Pit	COGB SD590-A-D-K-U 450x450	450	450	225	199.549	225	199.619	0.743	200.291
							225	199.608		
3	Grated Pit	COGB SD590-A-D-K-U 450x450	450	450	225	199.781	225	199.811	0.643	200.424
4	Grated Pit	COGB SD590-A-D-K-U 450x450	450	450	225	199.953			0.677	200.630
5	Grated Pit	COGB SD590-A-D-K-U 450x450	450	450	225	199.770			0.770	200.540
6	Junction Pit	EXISTING JP	-	-			150	200.709	0.637	201.346
7	Grated Pit	COGB SD590-A-D-K-U 450x450	450	450	150	200.749			0.559	201.308
8	Endwall	BREAK INTO EXISTING ENDWALL					225	200.436	0.000	200.436
9	Grated Pit	COGB SD590-A-D-K-U 450x450	450	450	225	200.511			0.666	201.177



DRAINAGE LONGITUDINAL SECTION
SCALES: HORIZONTAL 1:500 VERTICAL 1:50

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: D. MEADES 23/01/24

Designer: B. JANSSEN 18/03/24

Draft Checked: A. SMITH xx/xx/24

Tender Approved: N. SARTORI xx/xx/24

PRELIMINARY DESIGN DRAFT 4

PROJECT DETAILS

Location: Blucher Street & Apsley Street

Suburb: Strathfieldsaye

Works: Raised Crossings

GB No: GB5315

SHEET DETAILS

DRAINAGE DETAILS

Sheet number: 10 of 10

Plan Scale: AS SHOWN A3

Plotted: 18/03/2024 By: Bayley Janssen

SHEET REVISIONS AFTER TENDER

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