

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

INCIDENTAL CONSTRUCTION

- 701 Underground Stormwater Drains
- 702 Subsurface Drainage
- 703 General Concrete Paving
- 704 Precast Concrete Kerb
- 705 Drainage Pits and Covers
- 710 Fixing Raised Pavement Markers
- 712 Block Paving
- 713 Beaching
- 714 Sign Installation
- 721 Pavement Markings
- 730 Traffic Signal 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	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

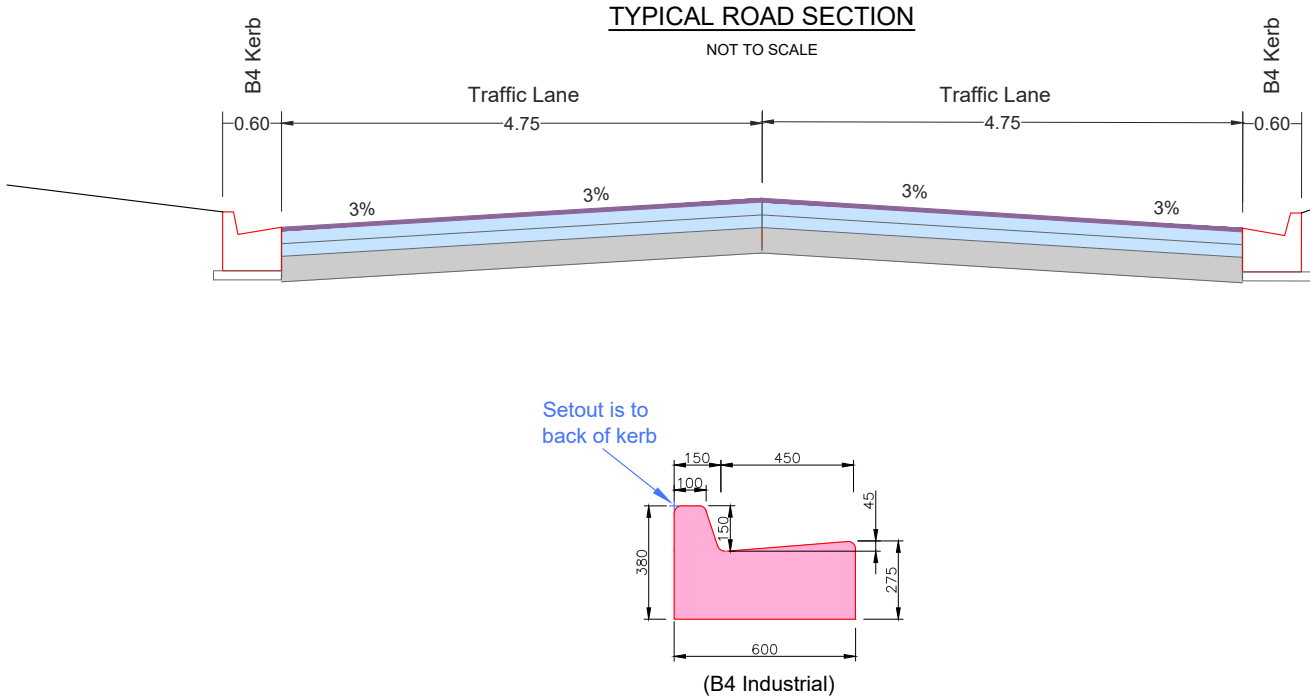
SITE ENVIRONMENTAL MANAGEMENT PLAN

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.



PAVEMENT			
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 SF (C320)
	Base	100mm	Existing instu FCR compacted to 100%MMDD ± 1% of the OMC
	Subbase		Existing instu granular material

Total Pavement Depth = 290mm

- Profile 40mm depth existing asphalt/seal material, dispose offsite at suitable location for reuse.
- Profile 150mm depth existing crushed rock material, dispose offsite at suitable location for reuse.
- Rip and moisture condition 100mm depth of existing insitu crushed rock material, recompact achieving 100% modified compaction at ± 1% of the OMC.

Base layer shall have a minimum of 100mm depth crushed rock material, if required top up with CL3 FCR to achieve min. depth.



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.

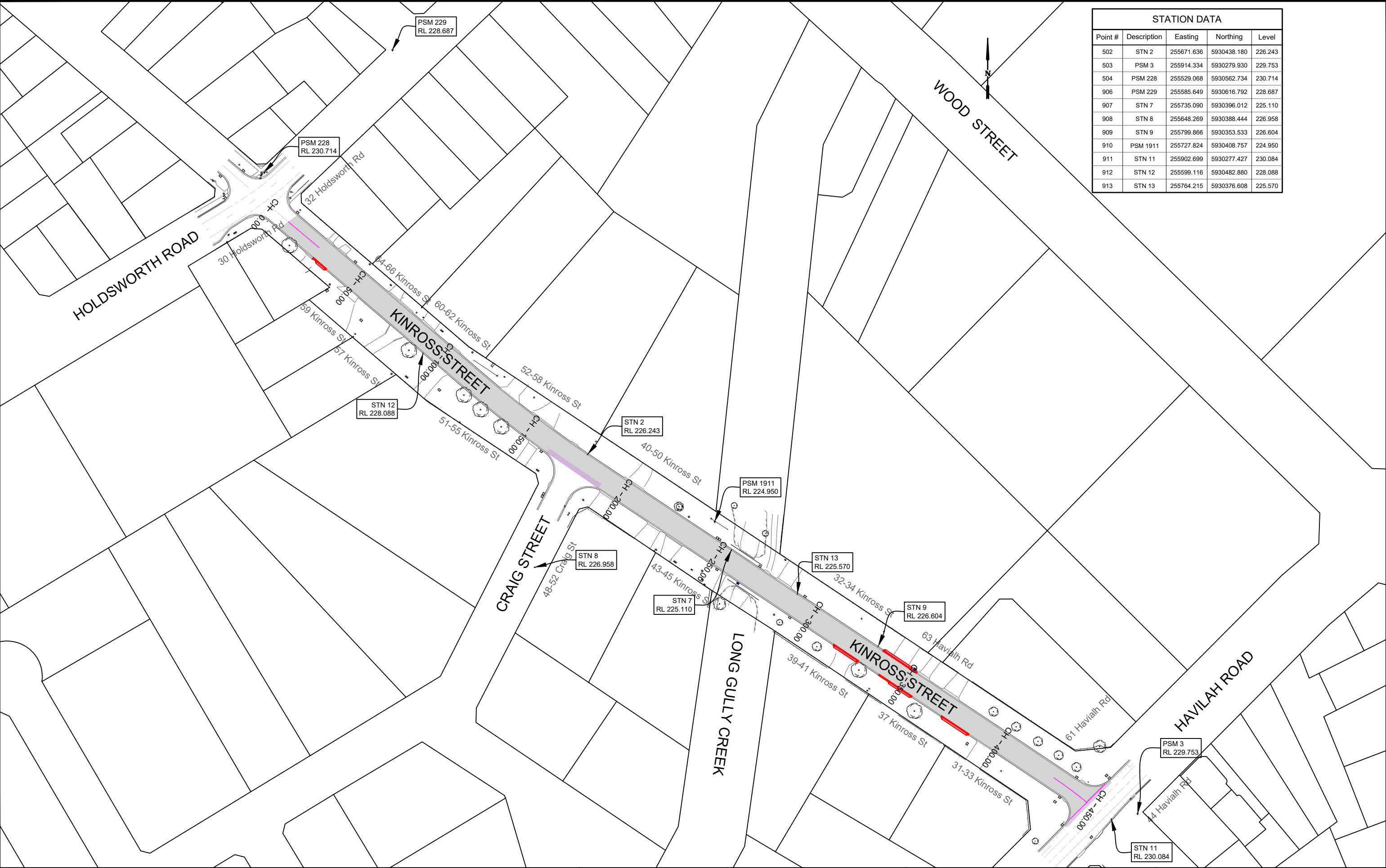


PROJECT DESIGN STATUS		
Surveyor:	H. Whytock	16/10/2023
Designer:	A. Smith	06/12/2023
Draft Checked:	x.xxx	xx/xx/23
Tender Approved:	N. SARTORI	xx/xx/23

**PRELIMINARY DESIGN
DRAFT 4**

PROJECT DETAILS	
Location:	Kinross Street
Suburb:	Long Gully
Works:	Reconstruction
GB No:	GB5257

SHEET DETAILS		
GENERAL NOTES		Sheet number: 2 of 19
		Plan Scale: - A3
		Plotted: 06/06/2024 By: Andrew Smith
SHEET REVISIONS AFTER TENDER		
Revision	Description	Approved by Date
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-	-	- -
-	-	- -



STATION DATA				
Point #	Description	Easting	Northing	Level
502	STN 2	255671.636	5930438.180	226.243
503	PSM 3	255914.334	5930279.930	229.753
504	PSM 228	255529.068	5930562.734	230.714
906	PSM 229	255585.649	5930616.792	228.687
907	STN 7	255735.090	5930396.012	225.110
908	STN 8	255648.269	5930388.444	226.958
909	STN 9	255799.866	5930353.533	226.604
910	PSM 1911	255727.824	5930408.757	224.950
911	STN 11	255902.699	5930277.427	230.084
912	STN 12	255599.116	5930482.880	228.088
913	STN 13	255764.215	5930376.608	225.570

SURVEY NOTES
Survey has been conducted to:

- MGA 2020 and orientated via (PSM 228 & PSM 229)
- Survey level has been tied to AHD via PSM 228

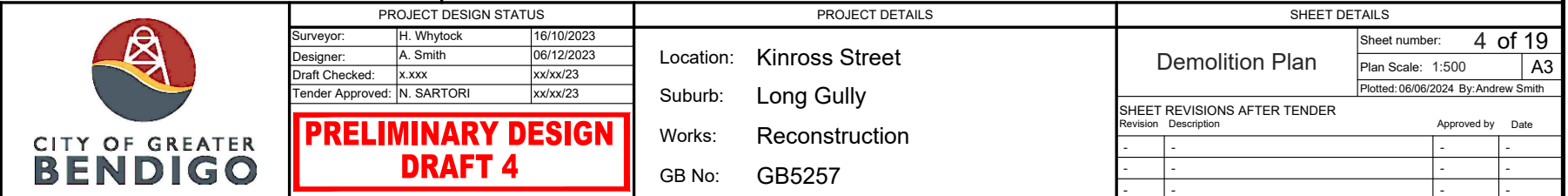


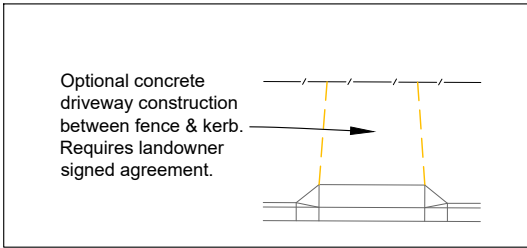
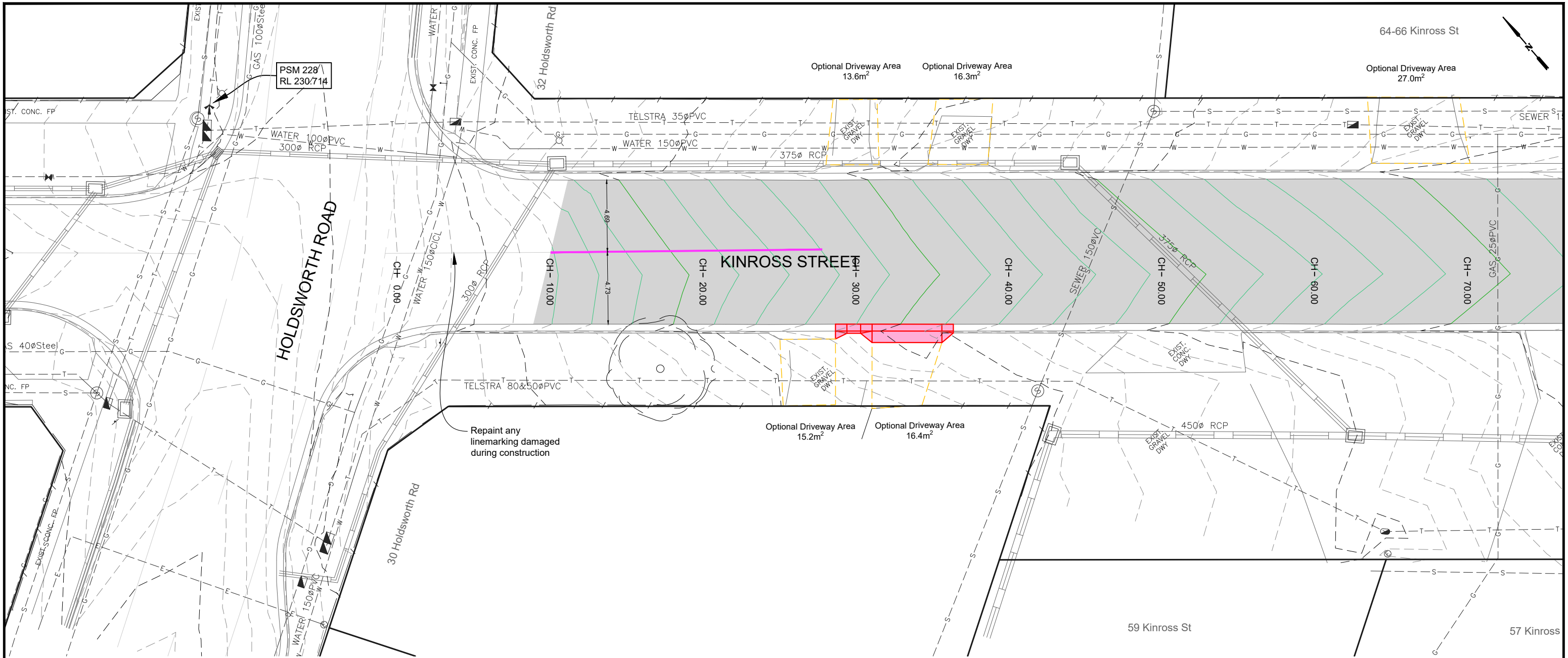
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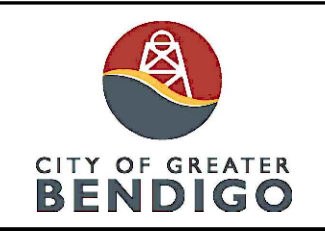
PROJECT DETAILS	
Location:	Kinross Street
Suburb:	Long Gully
Works:	Reconstruction
GB No:	GB5257

SHEET DETAILS			
Overall Layout & Control	Sheet number: 3 of 19		
	Plan Scale: NTS A3		
	Plotted: 06/06/2024 By: Andrew Smith		
SHEET REVISIONS AFTER TENDER			
Revision	Description	Approved by	Date
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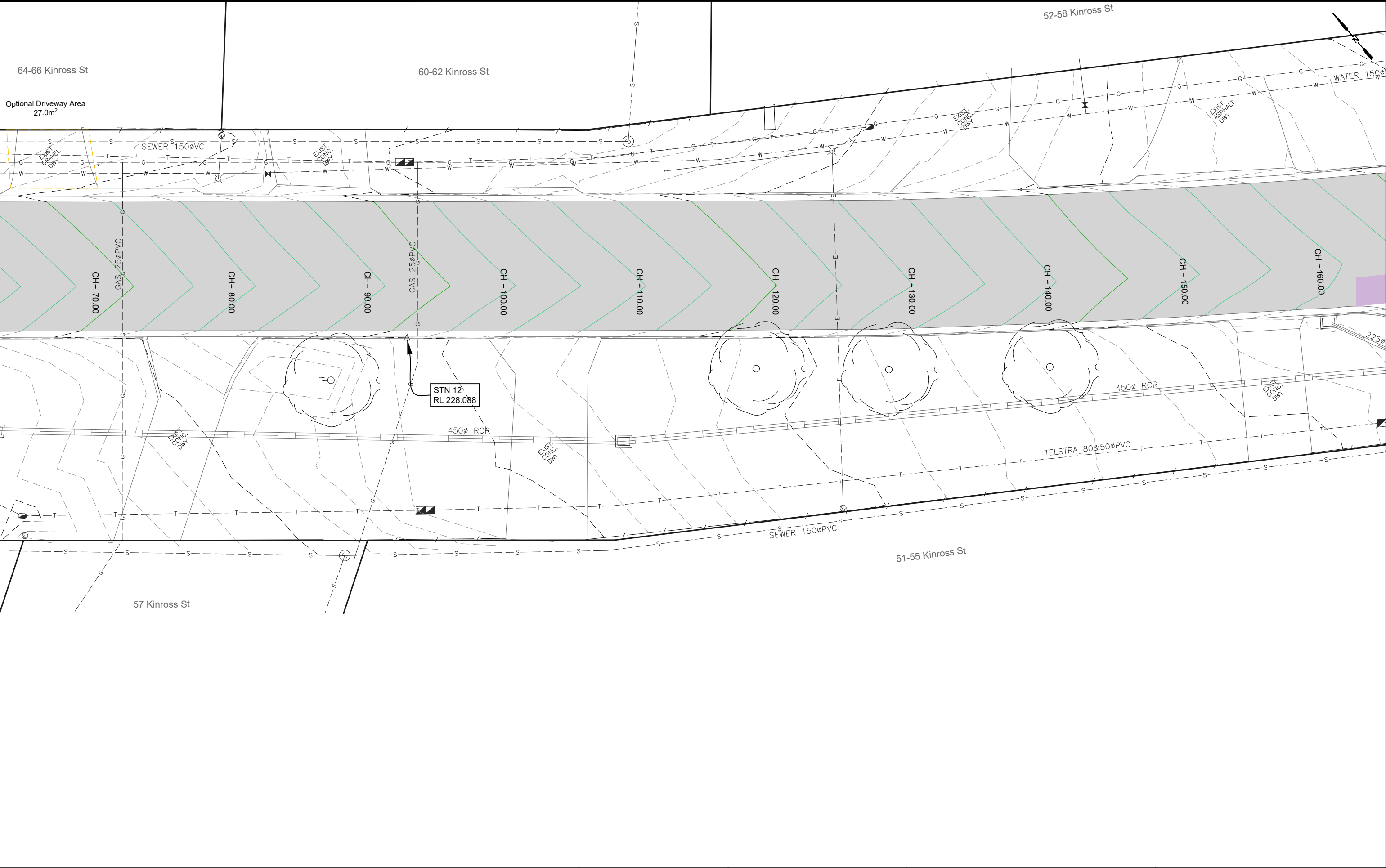
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	EXISTING CONTOURS - Levels to AHD (0.10m interval)		DESIGN SEAL: Wearing course as per detail sheet 2
			Concrete Driveway area: Industrial plain Dwy as per IDM SD250
			Concrete Kerb area: Industrial plain Kerb as noted and as per: IDM SD105, CoGB SD190,191,192



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Surveyor:	H. Whytock	16/10/2023
Designer:	A. Smith	06/12/2023
Draft Checked:	x.xxx	xx/xx/23
Tender Approved:	N. SARTORI	xx/xx/23
PRELIMINARY DESIGN DRAFT 4		

PROJECT DETAILS	
Location:	Kinross Street
Suburb:	Long Gully
Works:	Reconstruction
GB No:	GB5257

SHEET DETAILS			
Detail Layout	Sheet number: 5 of 19		
	Plan Scale: 1:250		A3
	Plotted: 06/06/2024 By: Andrew Smith		
SHEET REVISIONS AFTER TENDER			
Revision	Description	Approved by	Date
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LEGEND			
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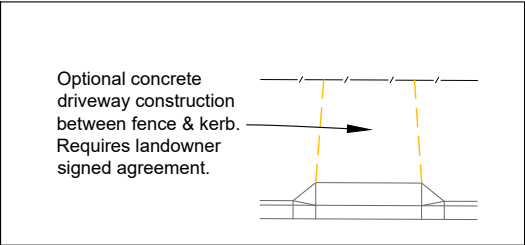
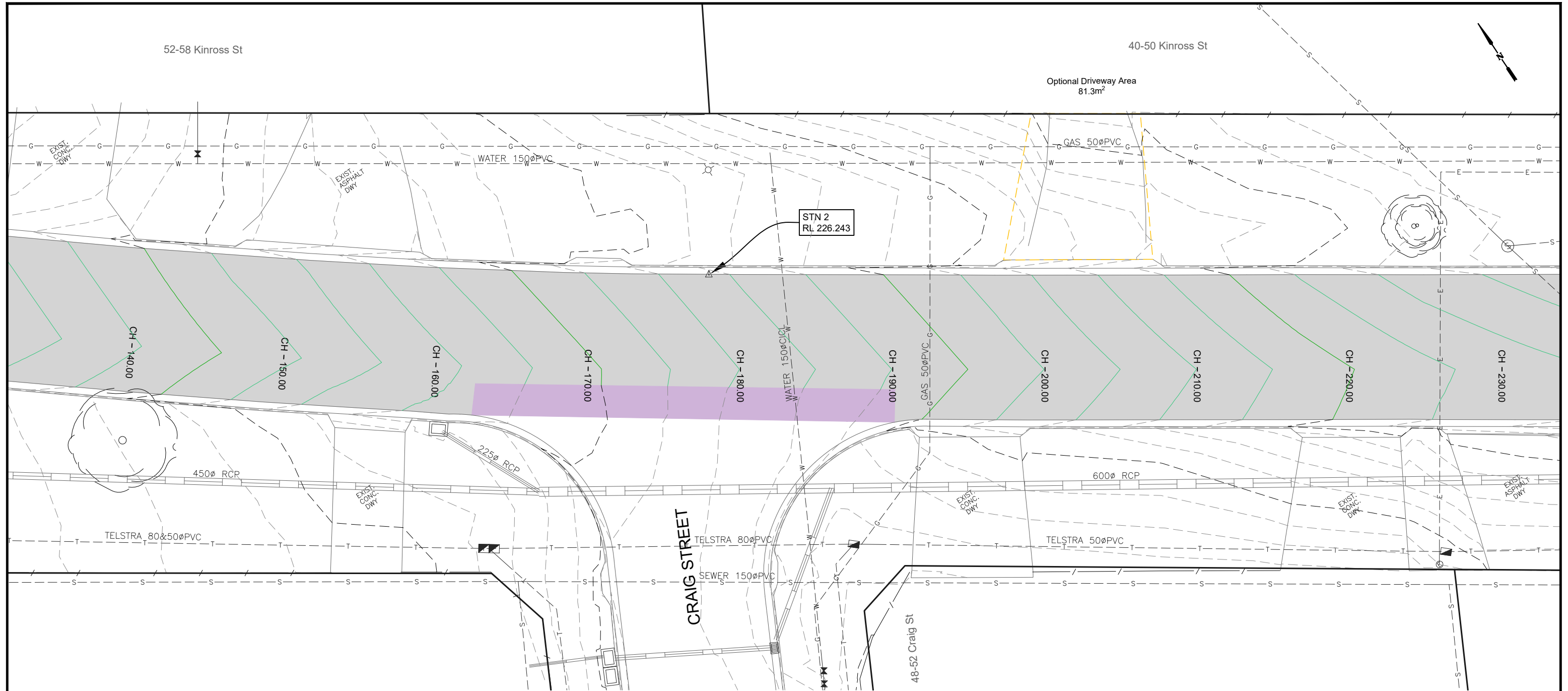


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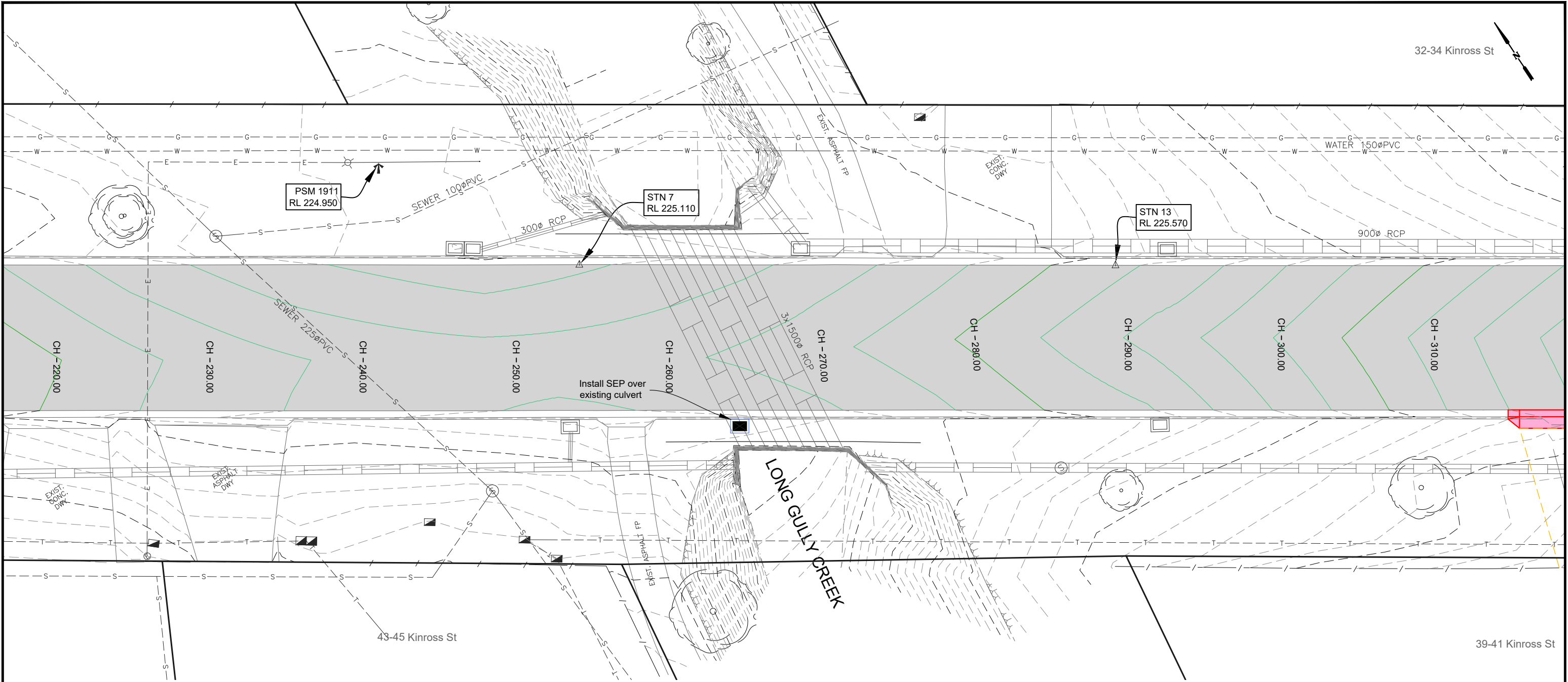
PRELIMINARY DESIGN
DRAFT 4

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Location:	Kinross Street
Suburb:	Long Gully
Works:	Reconstruction
GB No:	GB5257

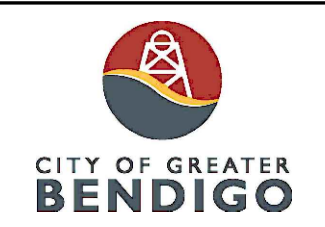
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Detail Layout		Sheet number: 6 of 19	
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SHEET REVISIONS AFTER TENDER			
Revision	Description	Approved by	Date
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LEGEND				PROJECT DESIGN STATUS			PROJECT DETAILS		SHEET DETAILS		
	DESIGN CONTOURS - Levels to AHD (0.10m interval)		DESIGN PAVEMENT: (Refer: Typical road pavement detail.)		Concrete Driveway area: Industrial plain Dwy as per IDM SD250		Concrete Kerb area: Industrial plain Kerb as noted and as per: IDM SD105, CoGB SD190,191,192	Surveyor: H. Whytock Designer: A. Smith Draft Checked: x.xxx Tender Approved: N. SARTORI	Location: Kinross Street Suburb: Long Gully Works: Reconstruction GB No: GB5257	Sheet number: 7 of 19	Plan Scale: 1:500 Plot Scale: 1:100 Author: Andrew Smith
	EXISTING CONTOURS - Levels to AHD (0.10m interval)		DESIGN SEAL: Wearing course as per detail sheet 2	PRELIMINARY DESIGN DRAFT 4			SHEET REVISIONS AFTER TENDER		PRELIMINARY DESIGN DRAFT 4		



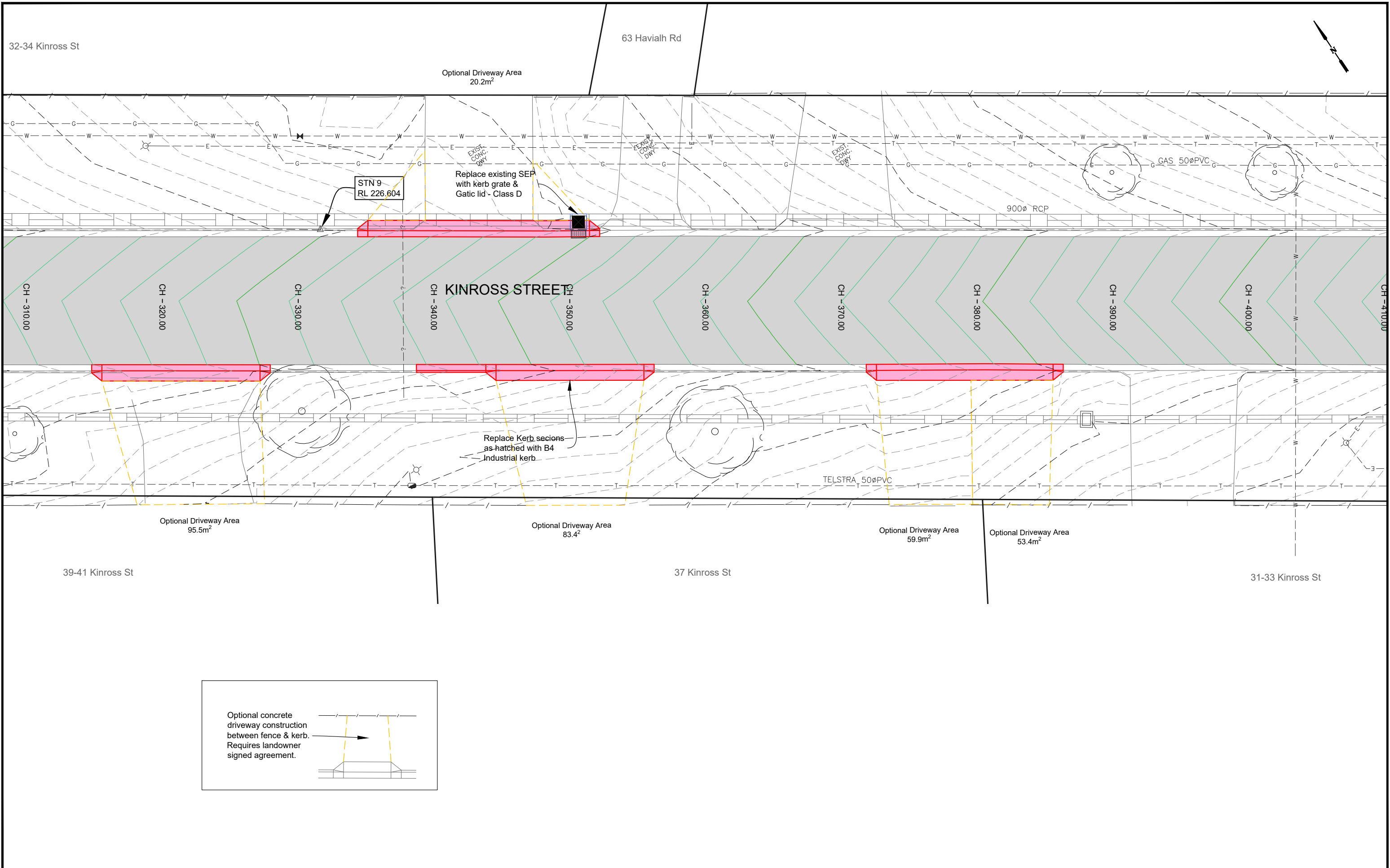
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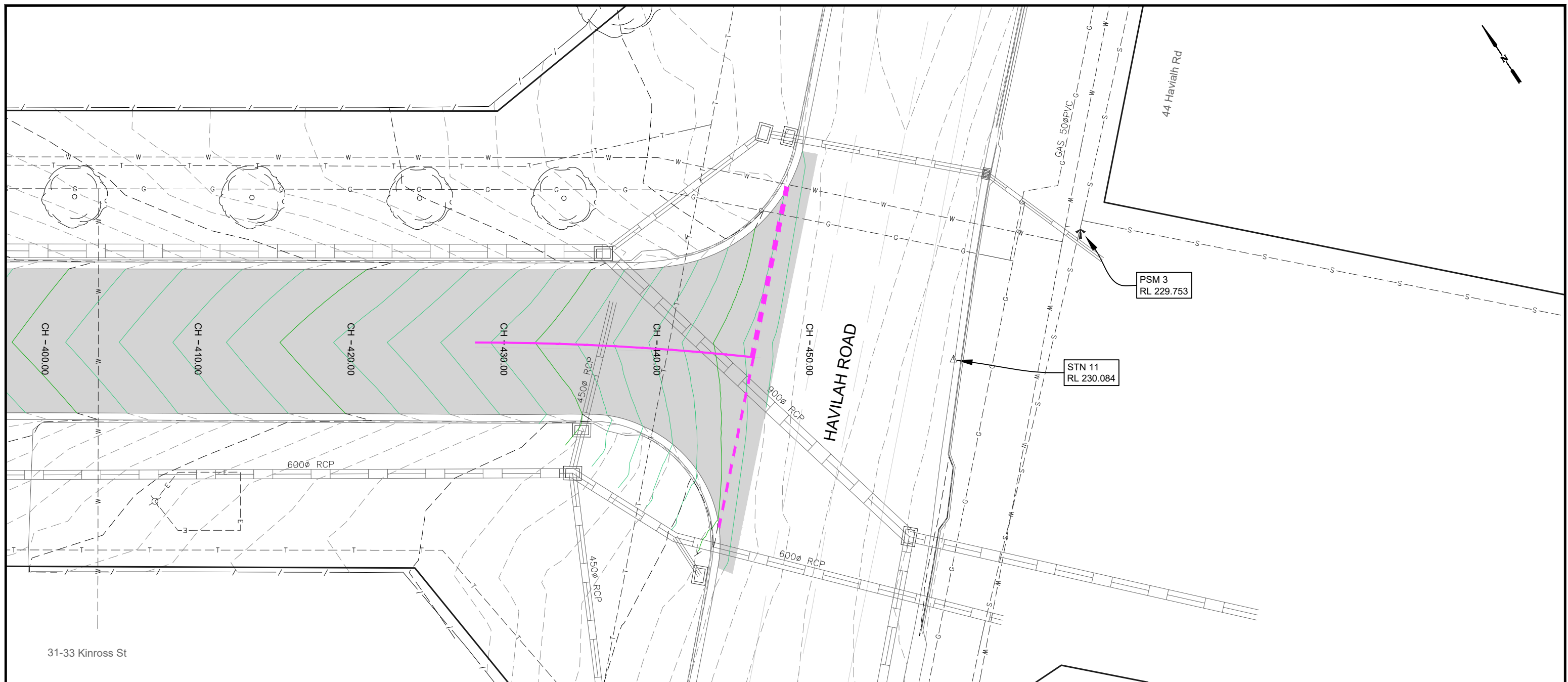
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Surveyor:	H. Whytock	16/10/2023
Designer:	A. Smith	06/12/2023
Draft Checked:	x.xxx	xx/xx/23
Tender Approved:	N. SARTORI	xx/xx/23
PRELIMINARY DESIGN DRAFT 4		

PROJECT DETAILS	
Location:	Kinross Street
Suburb:	Long Gully
Works:	Reconstruction
GB No:	GB5257

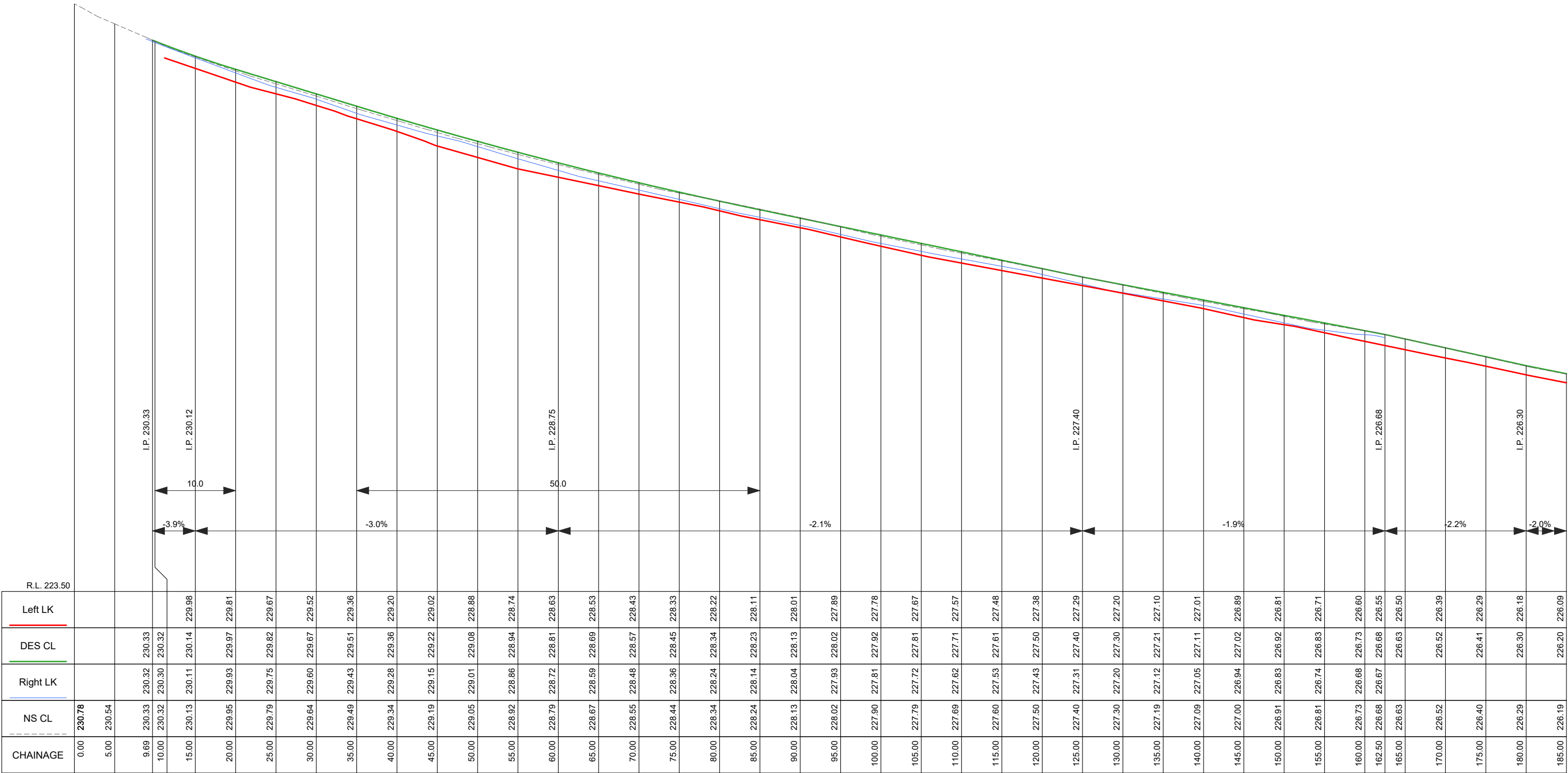
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Revision	Description	Approved by Date
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LEGEND				 CITY OF GREATER BENDIGO	PROJECT DESIGN STATUS			PROJECT DETAILS		SHEET DETAILS		
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				Tender Approved:	N. SARTORI	xx/xx/23	SHEET REVISIONS AFTER TENDER					
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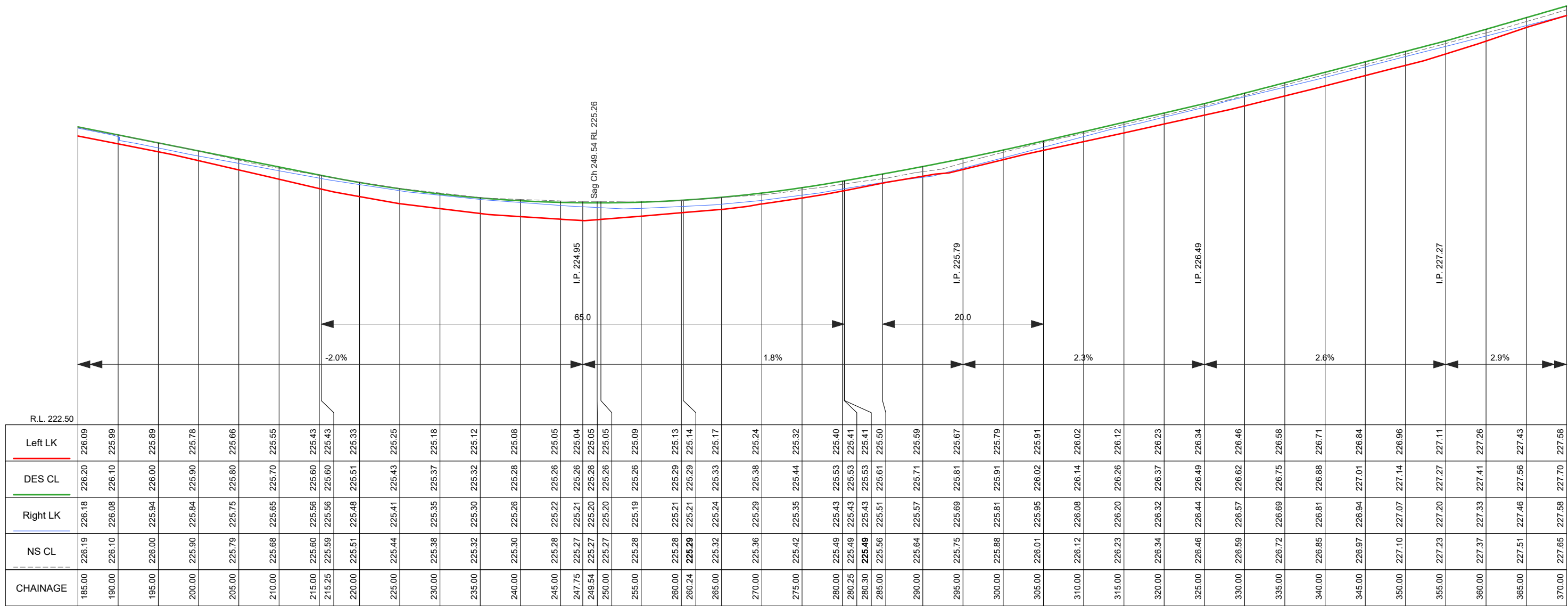
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PRELIMINARY DESIGN
DRAFT 4

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Location:	Kinross Street
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GB No:	GB5257

SHEET DETAILS	
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Plan Section	A3
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Revision	Description
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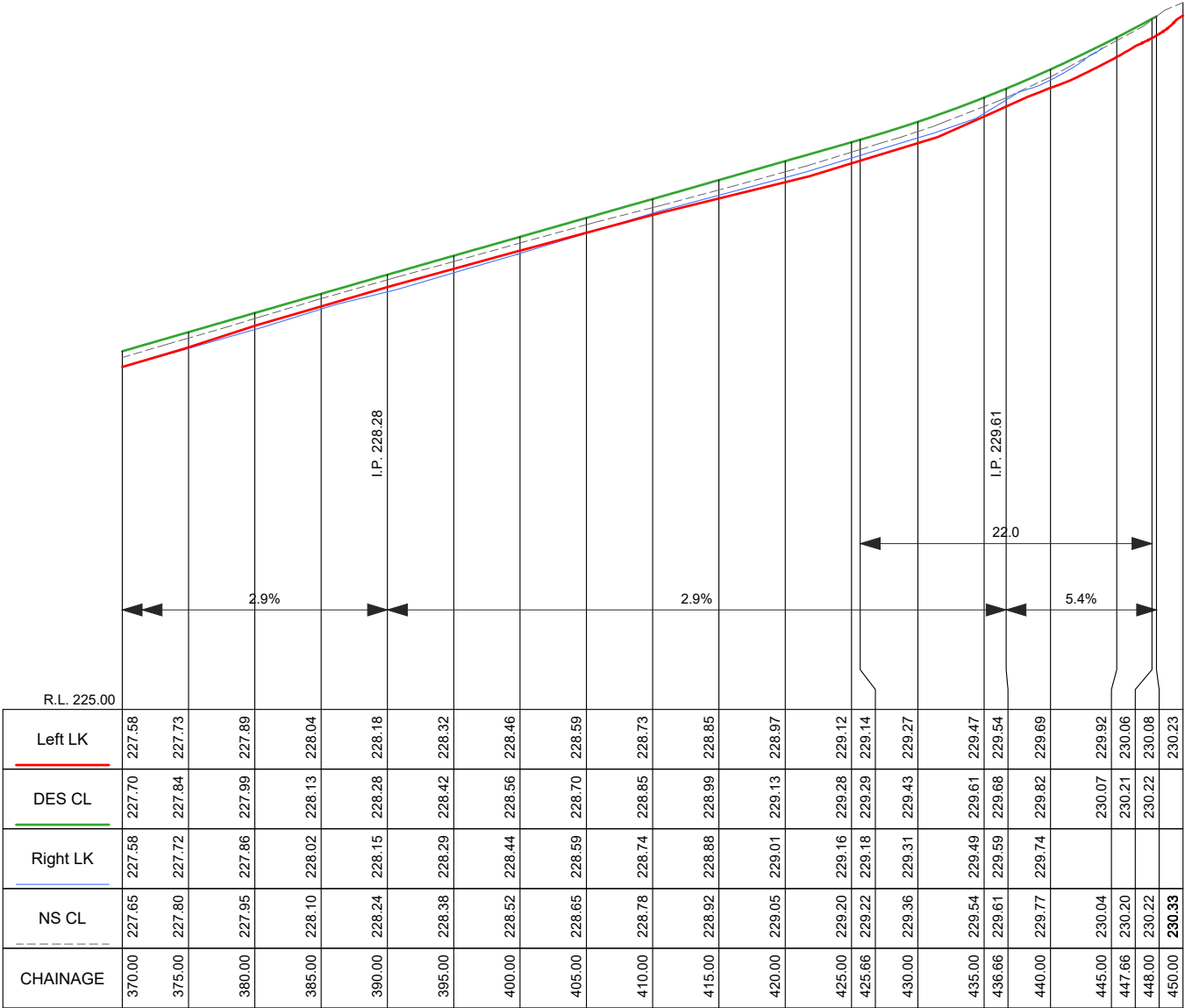
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DRAFT 4



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Tender Approved:	N. SARTORI	xx/xx/23
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Location:	Kinross Street
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SHEET DETAILS		
Longitudinal Section		Sheet number: 12 of 19
		Plan Scale: As shown A3
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Revision	Description	Approved by Date
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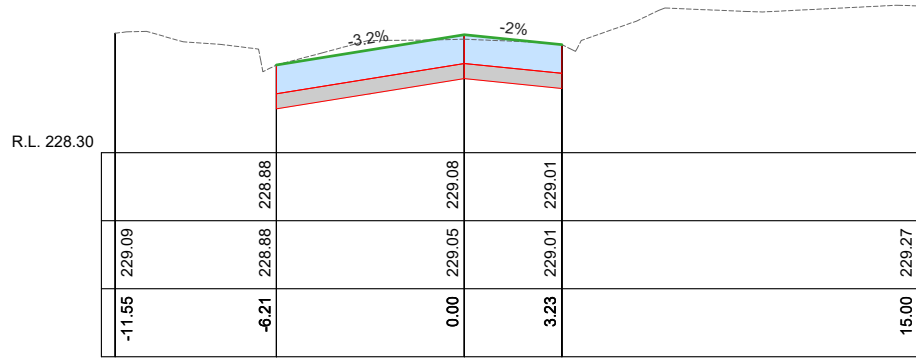
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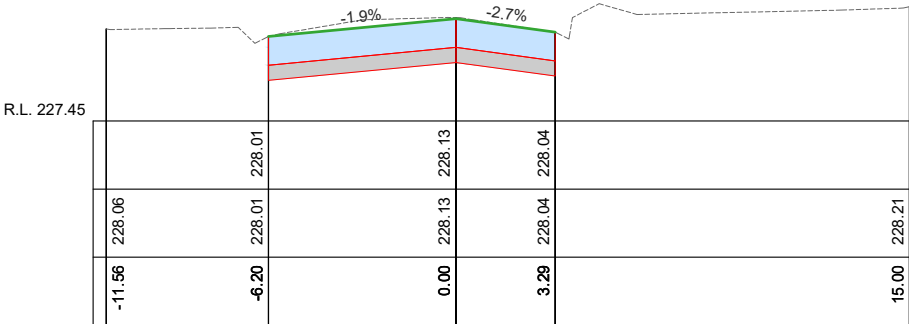
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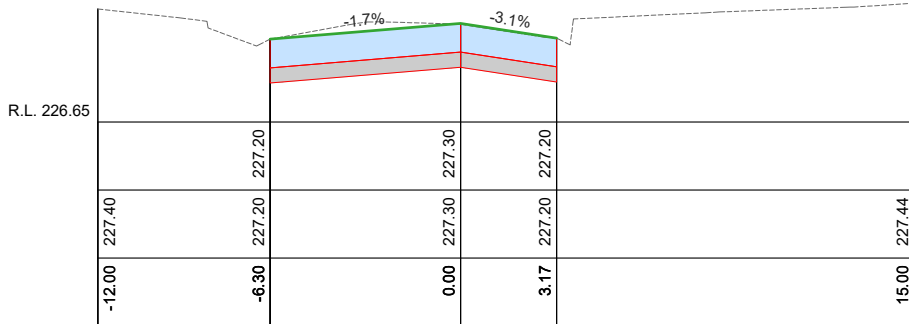
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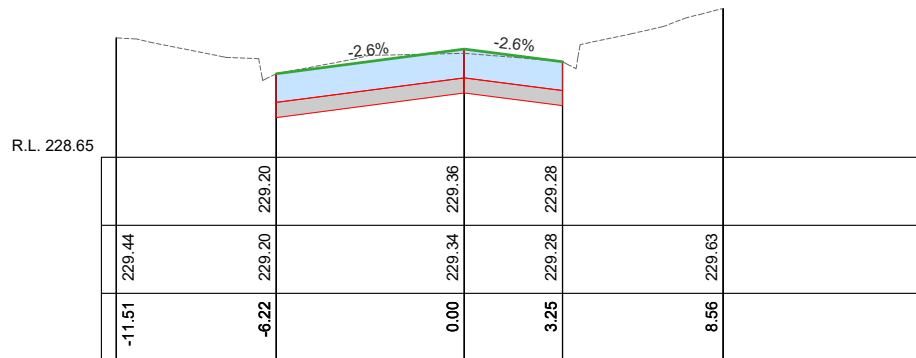
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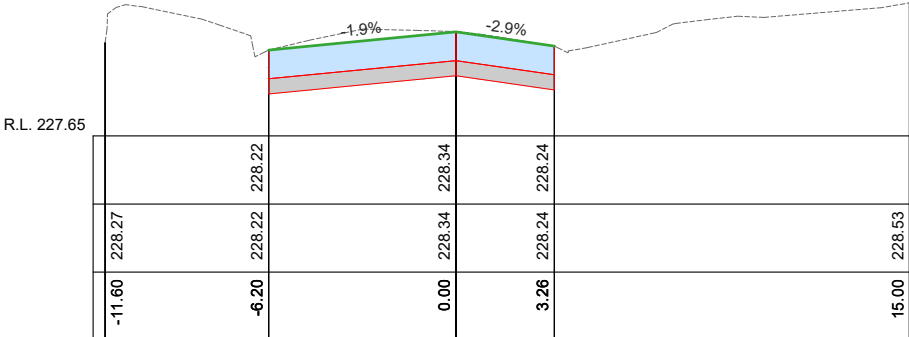
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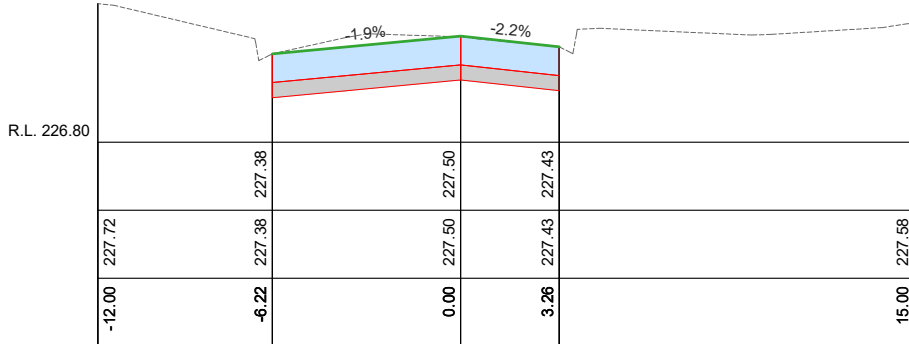
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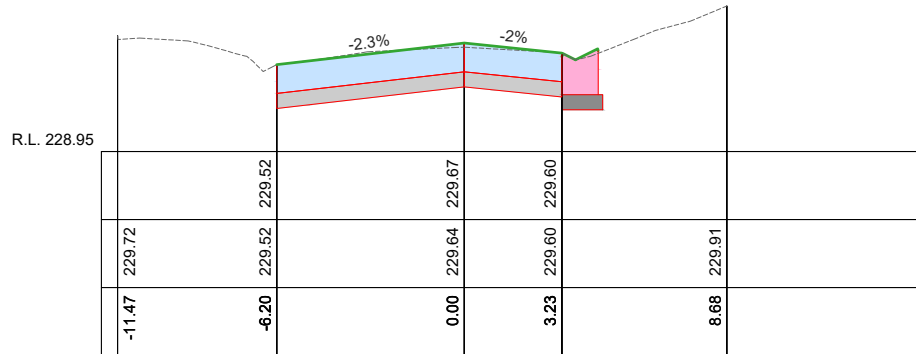
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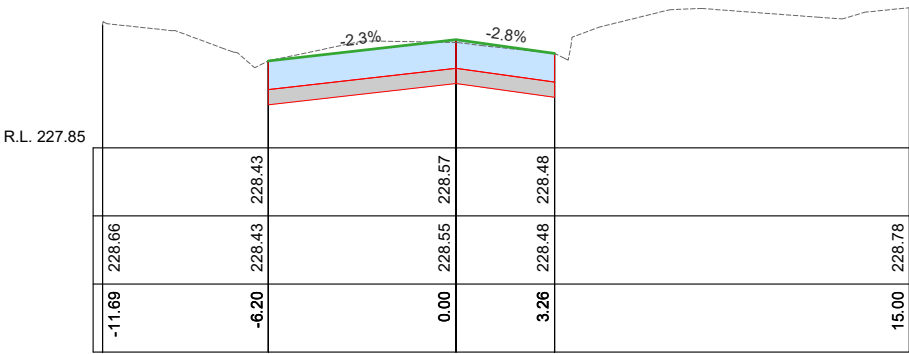
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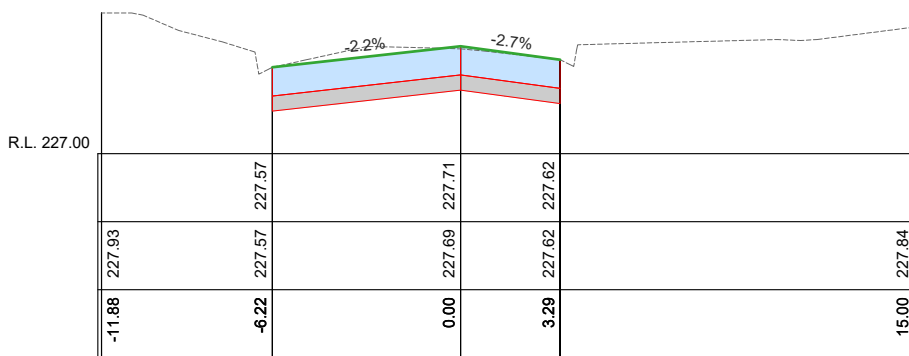
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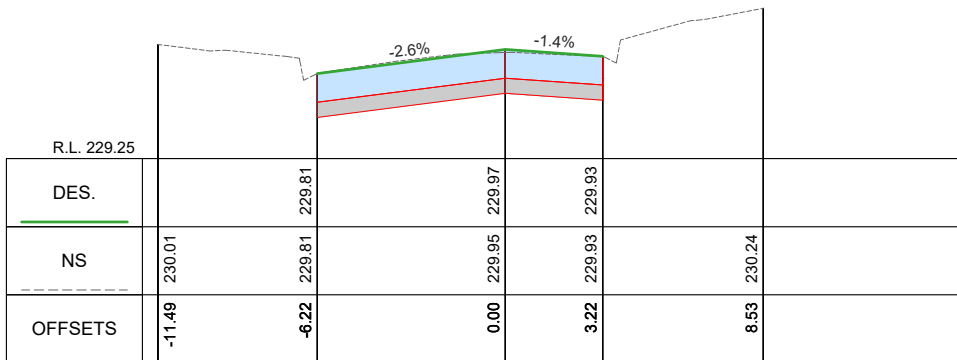
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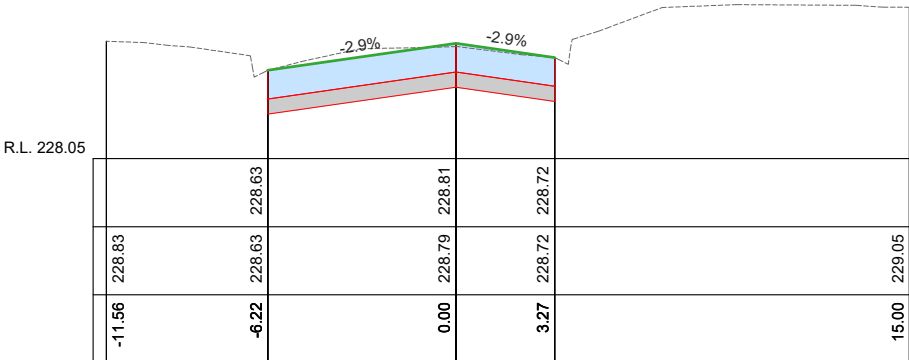
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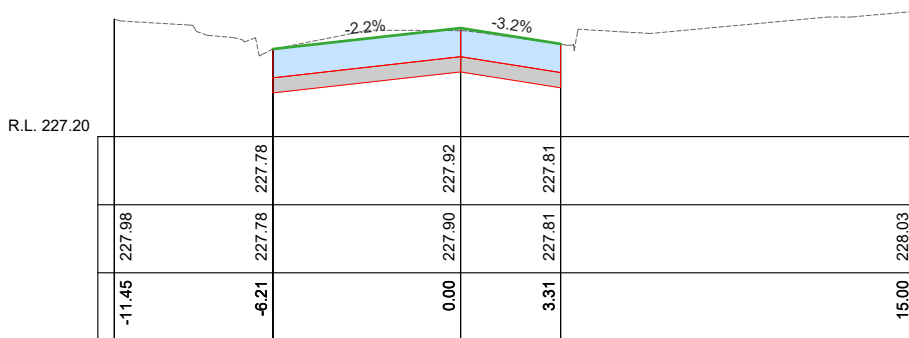
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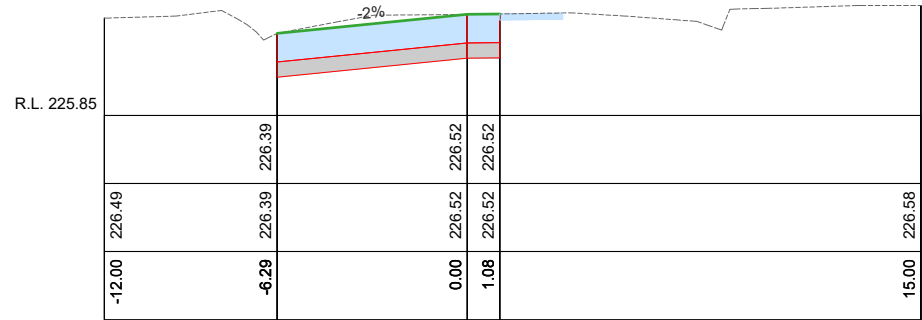


CITY OF GREATER
BENDIGO

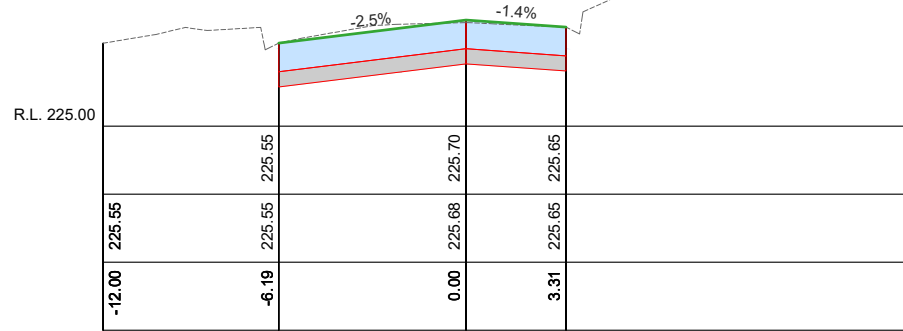
PROJECT DESIGN STATUS		
Surveyor:	H. Whytock	16/10/2023
Designer:	A. Smith	06/12/2023
Draft Checked:	x.xxx	xx/xx/23
Tender Approved:	N. SARTORI	xx/xx/23
PRELIMINARY DESIGN DRAFT 4		

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Works:	Reconstruction
GB No:	GB5257

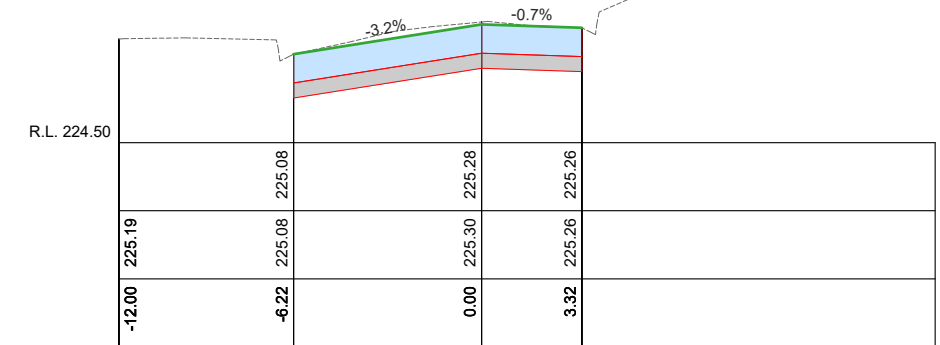
SHEET DETAILS			
Cross Sections		Sheet number: 14 of 19	
		Plan Scale: As shown A3	
		Plotted: 06/06/2024 By: Andrew Smith	
SHEET REVISIONS AFTER TENDER			
Revision	Description	Approved by	Date
-	-	-	-
-	-	-	-



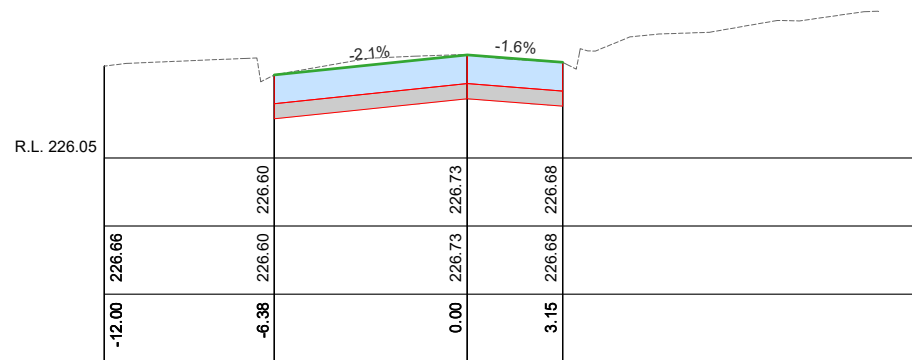
Ch 170.00



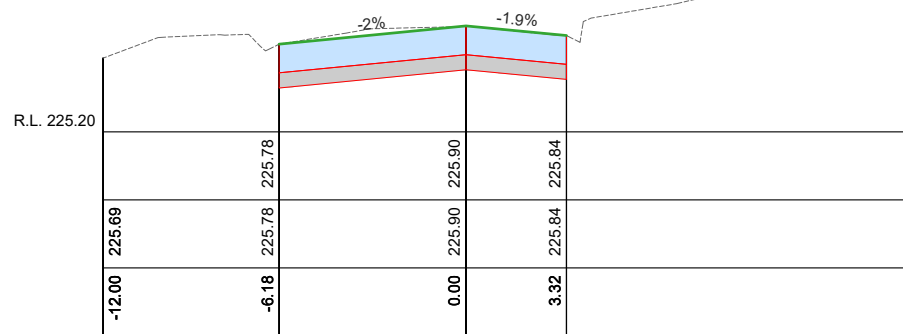
Ch 210.00



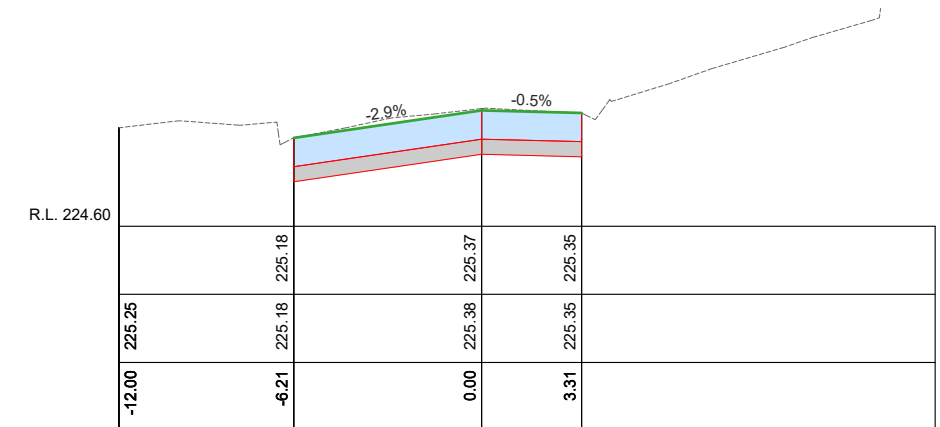
Ch 240.00



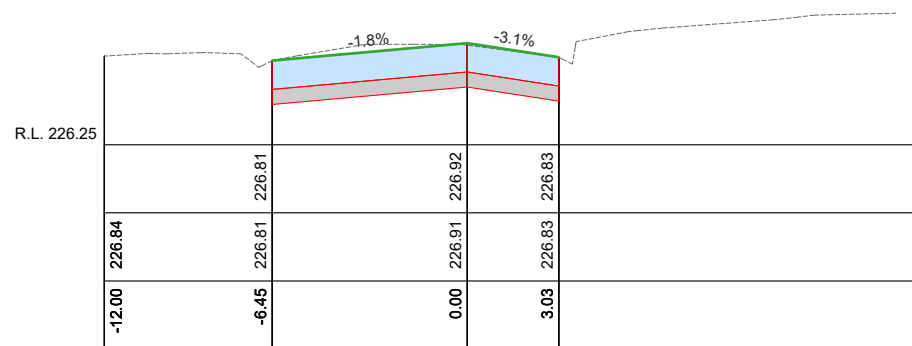
Ch 160.00



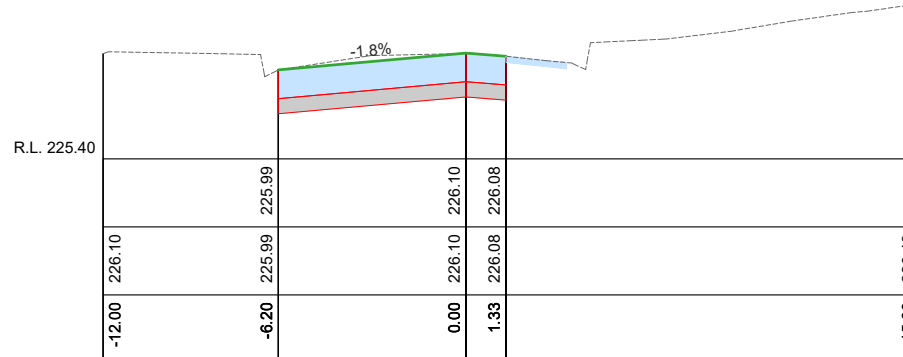
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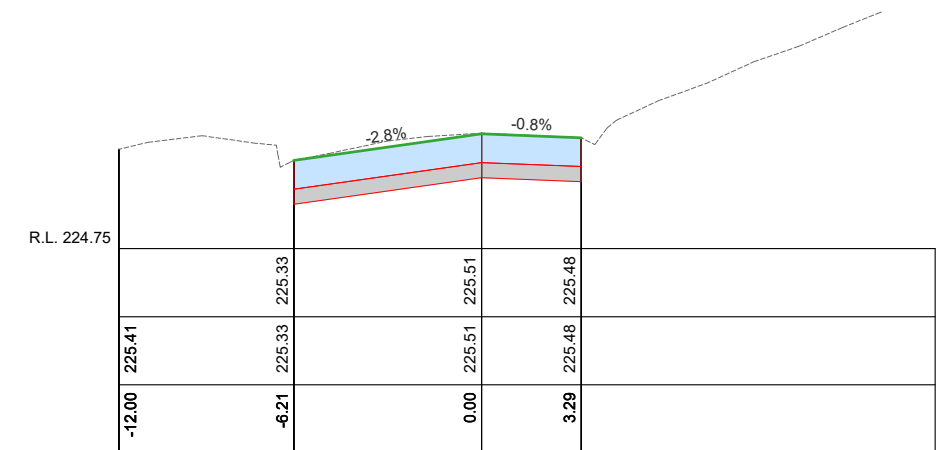
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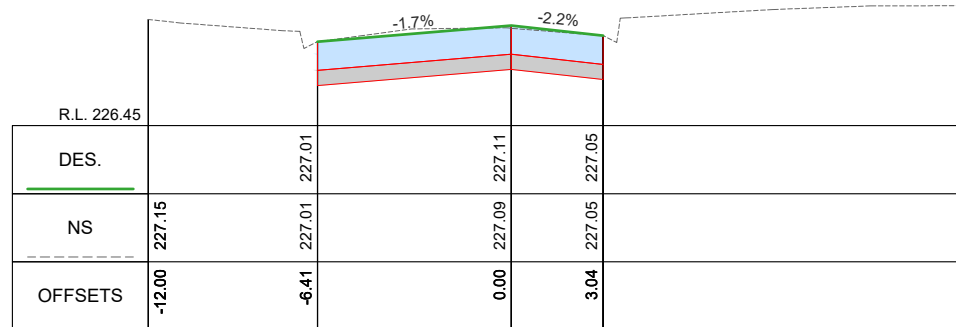
Ch 150.00



Ch 190.00



Ch 220.00



Ch 140.00

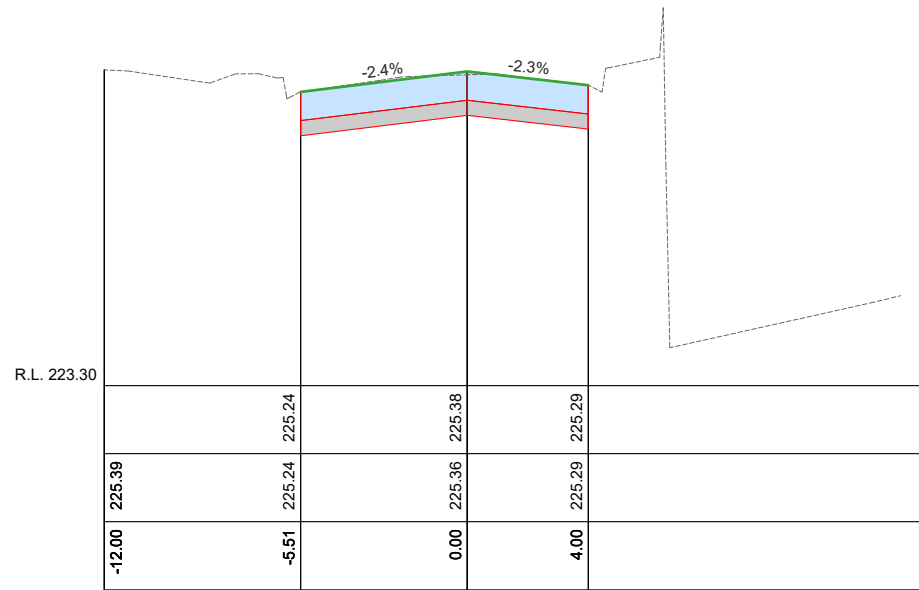
CL ????? CROSS SECTIONS
SCALES: H 1:250 V 1:50 (A3)



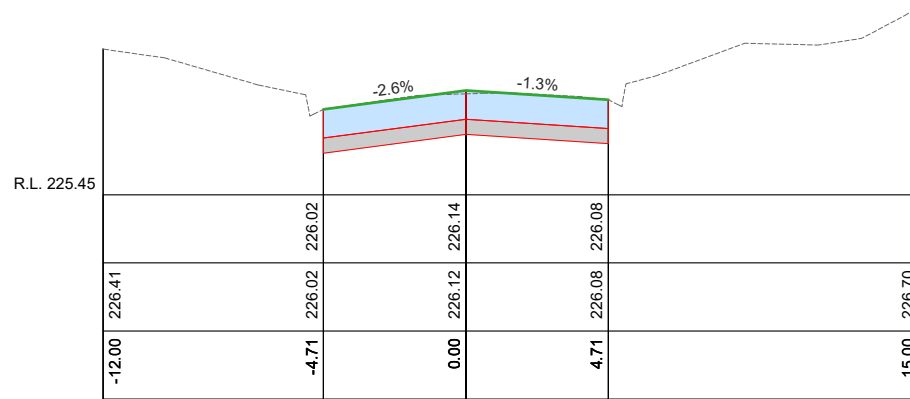
PROJECT DESIGN STATUS		
Surveyor:	H. Whytock	16/10/2023
Designer:	A. Smith	06/12/2023
Draft Checked:	x.xxx	xx/xx/23
Tender Approved:	N. SARTORI	xx/xx/23
PRELIMINARY DESIGN DRAFT 4		

PROJECT DETAILS	
Location:	Kinross Street
Suburb:	Long Gully
Works:	Reconstruction
GB No:	GB5257

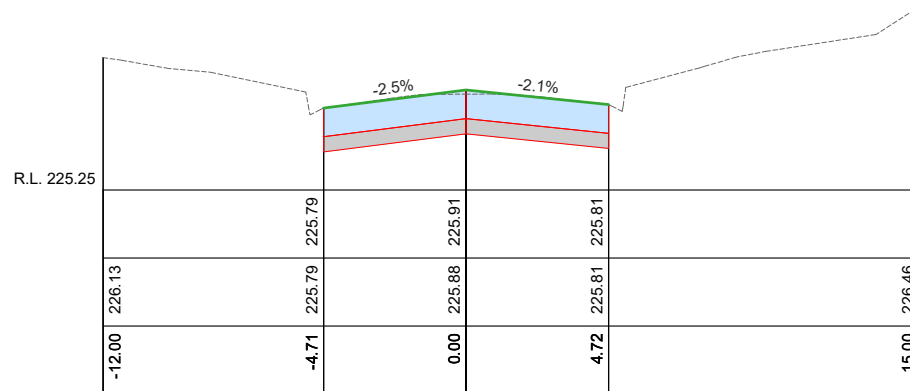
SHEET DETAILS		
Cross Sections		Sheet number: 15 of 19
		Plan Scale: As shown A3
		Plotted: 06/08/2024 By: Andrew Smith
SHEET REVISIONS AFTER TENDER		
Revision	Description	Approved by Date
-	-	-
-	-	-
-	-	-



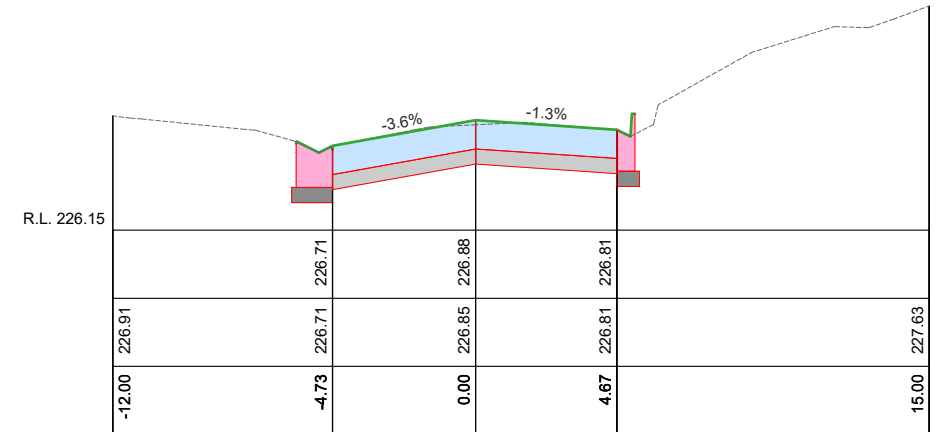
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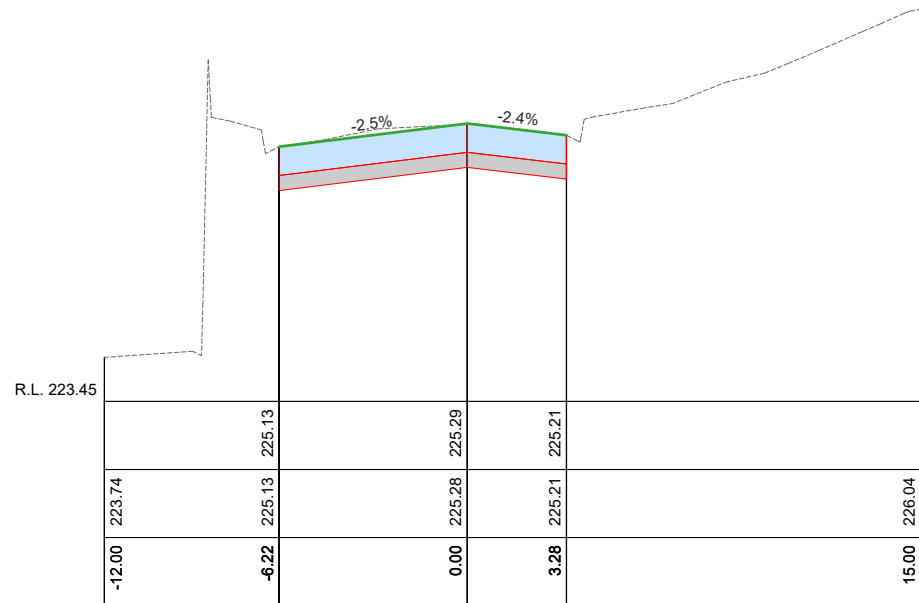
Ch 310.00



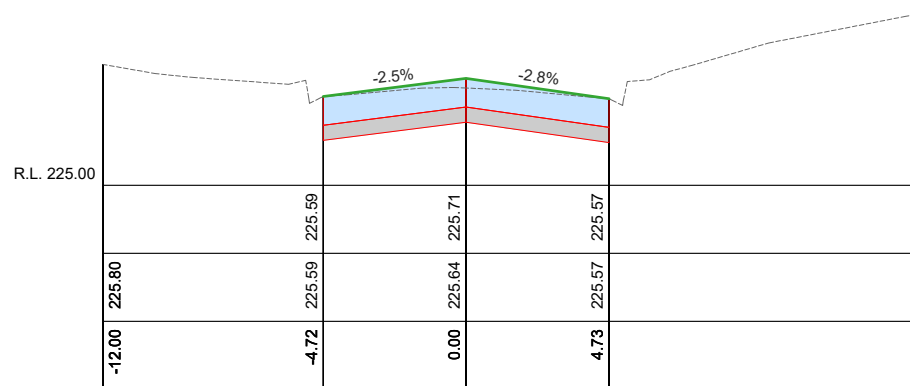
Ch 300.00



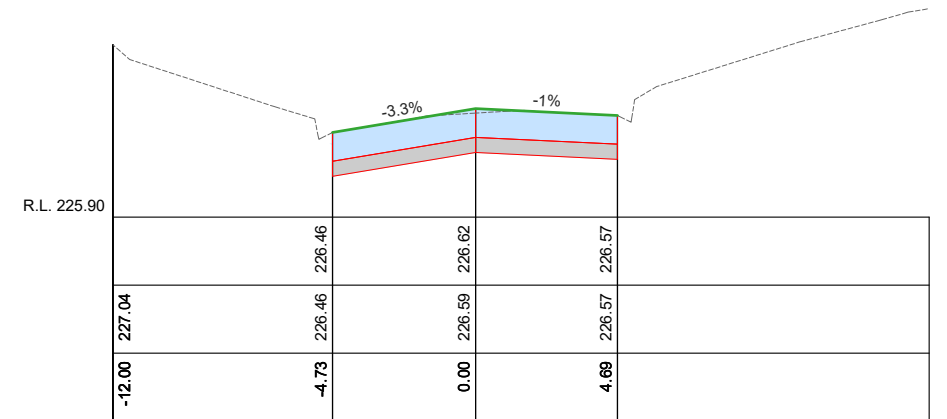
Ch 340.00



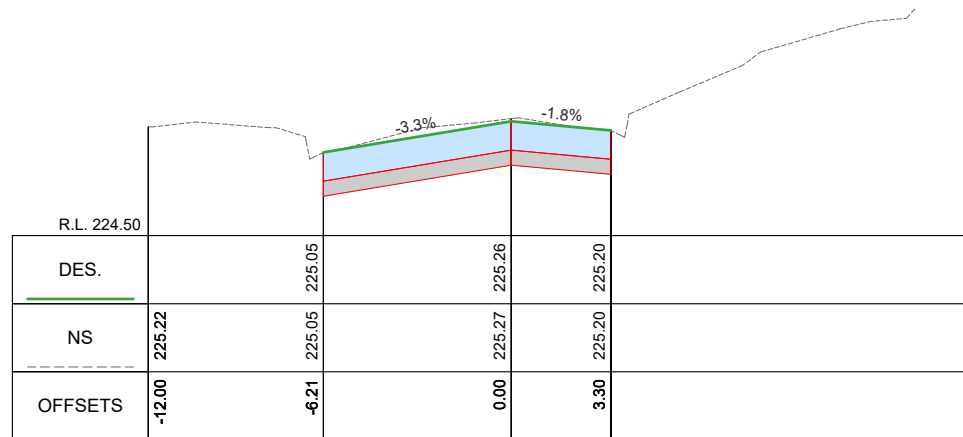
Ch 260.00



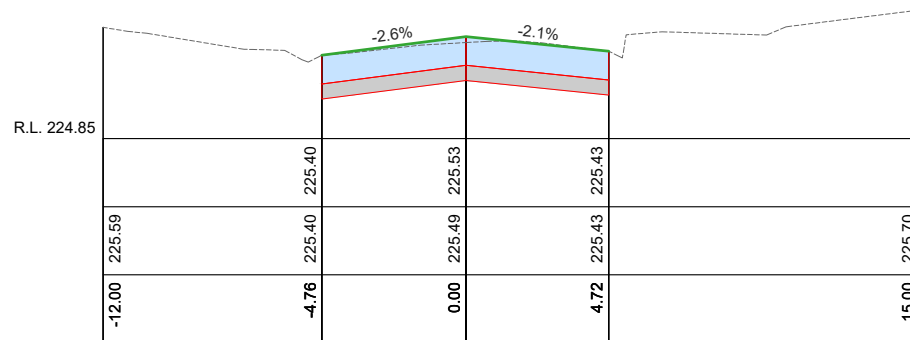
Ch 290.00



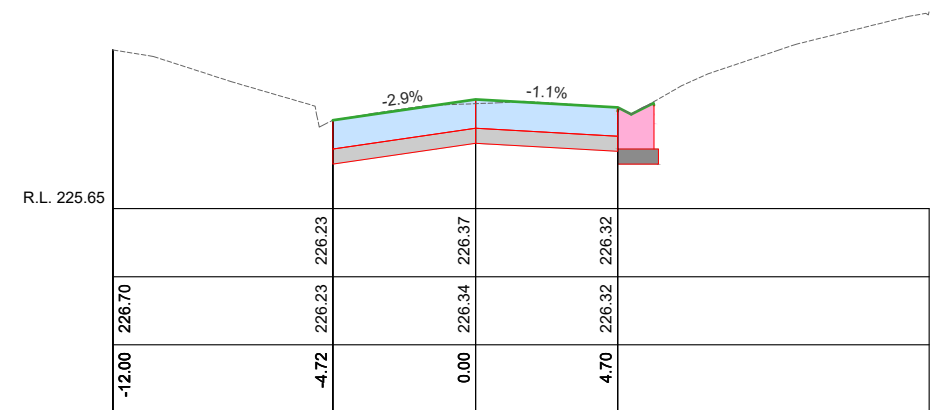
Ch 330.00



Ch 250.00



Ch 280.00



Ch 320.00

CL CROSS SECTIONS
SCALES: H 1:250 V 1:50 (A3)

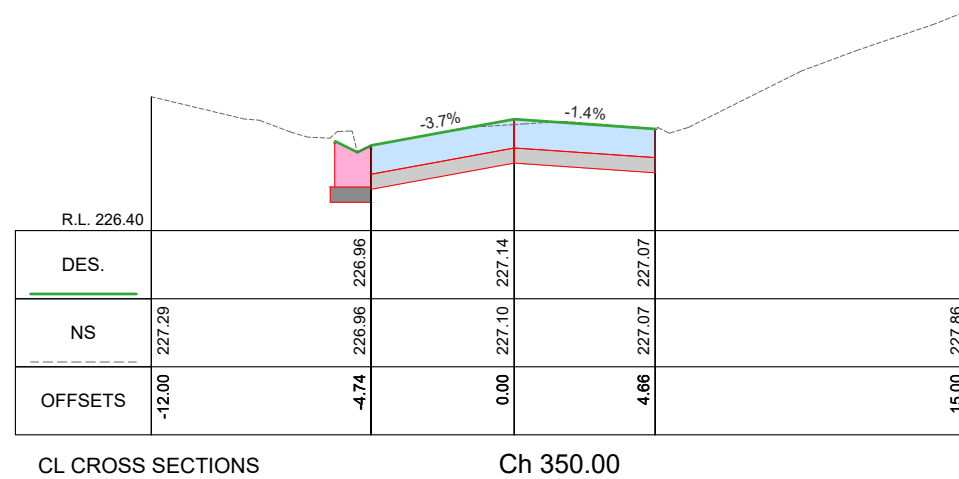
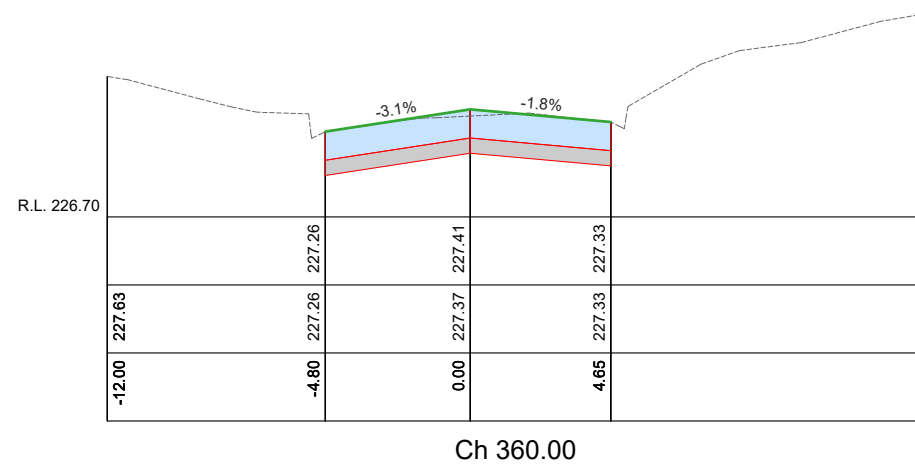
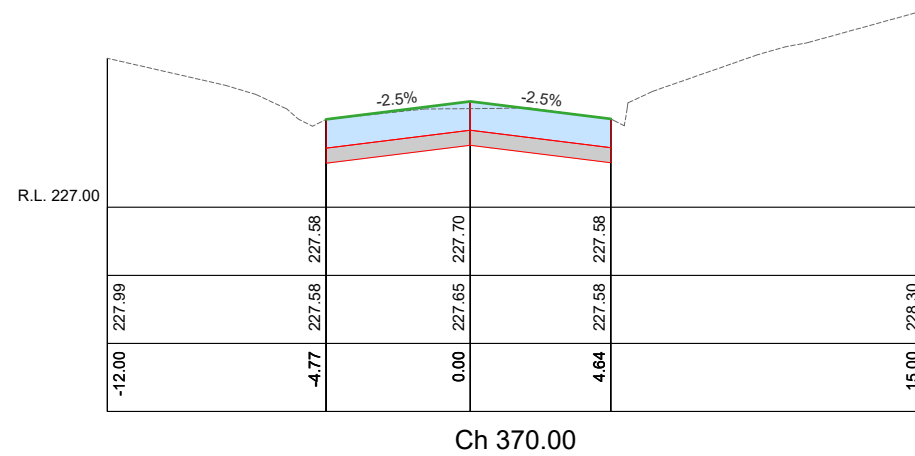


PROJECT DESIGN STATUS		
Surveyor:	H. Whytock	16/10/2023
Designer:	A. Smith	06/12/2023
Draft Checked:	x.xxx	xx/xx/23
Tender Approved:	N. SARTORI	xx/xx/23

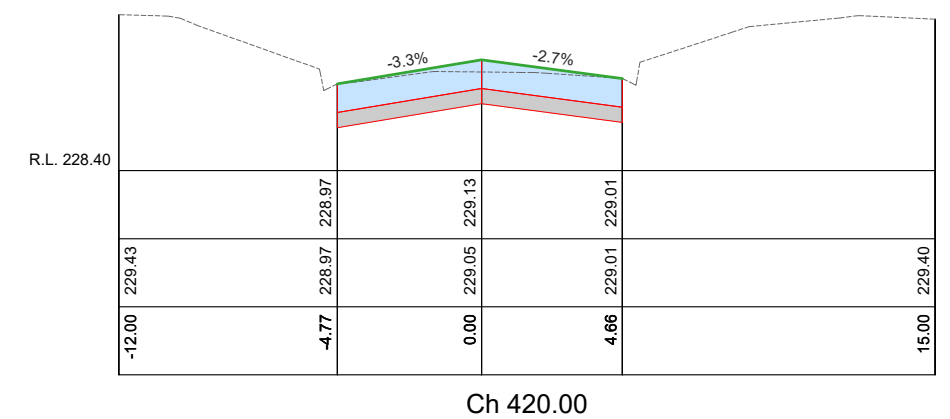
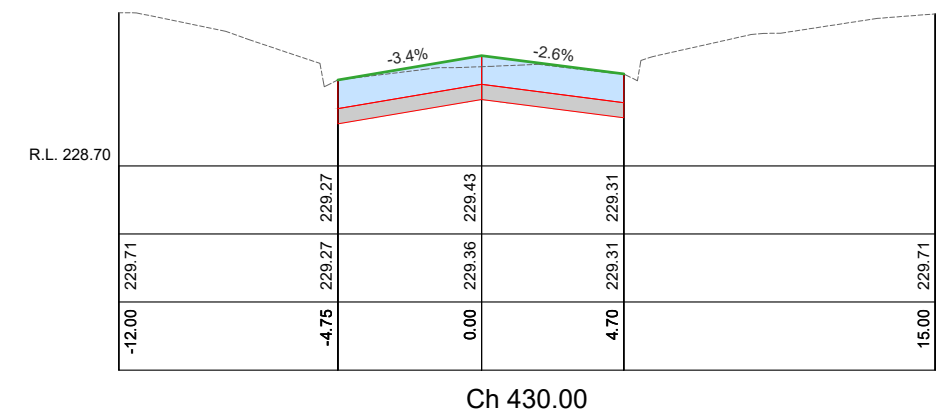
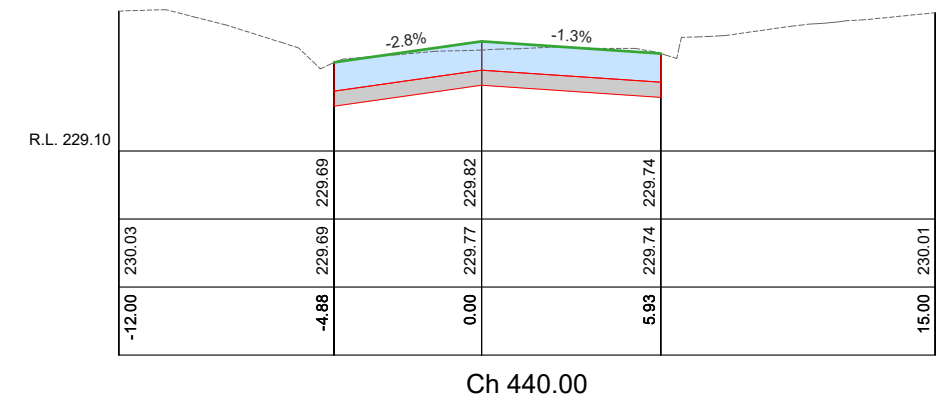
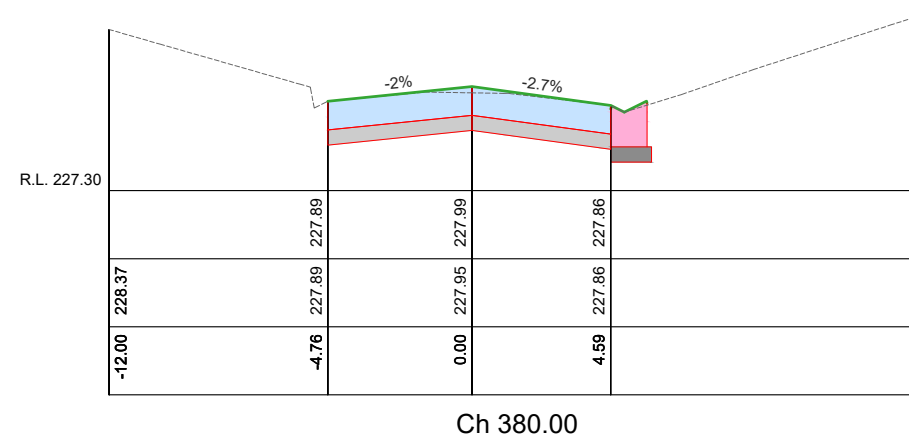
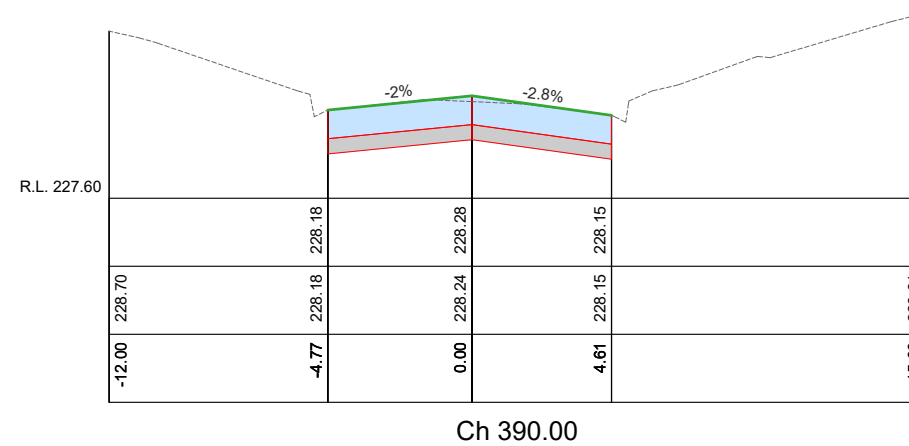
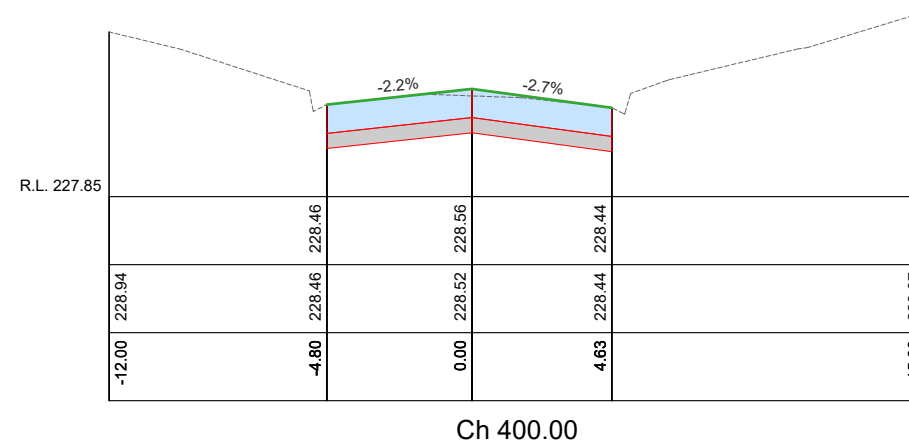
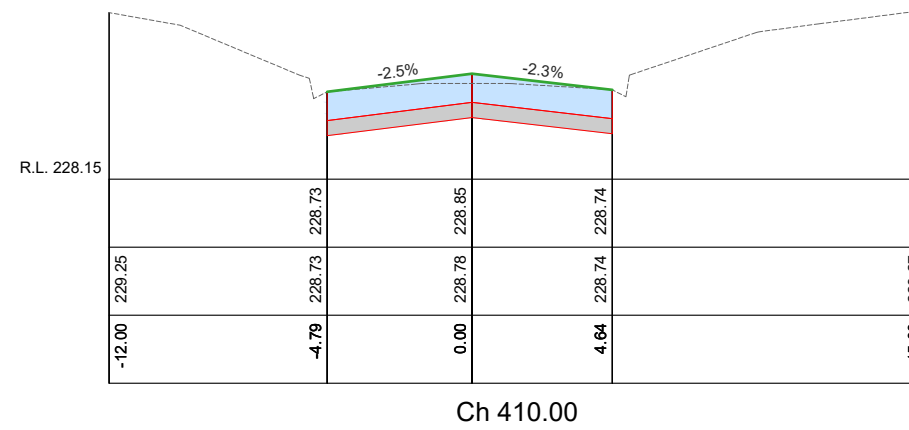
PRELIMINARY DESIGN
DRAFT 4

PROJECT DETAILS	
Location:	Kinross Street
Suburb:	Long Gully
Works:	Reconstruction
GB No:	GB5257

SHEET DETAILS			
Cross Sections		Sheet number: 16 of 19	
		Plan Scale: As shown	A3
SHEET REVISIONS AFTER TENDER			
Revision	Description	Approved by	Date
-	-	-	-
-	-	-	-
-	-	-	-



CL CROSS SECTIONS
SCALES: H 1:250 V 1:50 (A3)



PROJECT DESIGN STATUS		
Surveyor:	H. Whytock	16/10/2023
Designer:	A. Smith	06/12/2023
Draft Checked:	x.xxx	xx/xx/23
Tender Approved:	N. SARTORI	xx/xx/23

PRELIMINARY DESIGN DRAFT 4

PROJECT DETAILS	
Location:	Kinross Street
Suburb:	Long Gully
Works:	Reconstruction
GB No:	GB5257

SHEET DETAILS			
Cross Sections		Sheet number: 17 of 19	
		Plan Scale: As shown	A3
		Plotted: 06/06/2024 By: Andrew Smith	
SHEET REVISIONS AFTER TENDER			
Revision	Description	Approved by	Date
-	-	-	-
-	-	-	-



