FOREST LANE, BENDIGO

GB5090

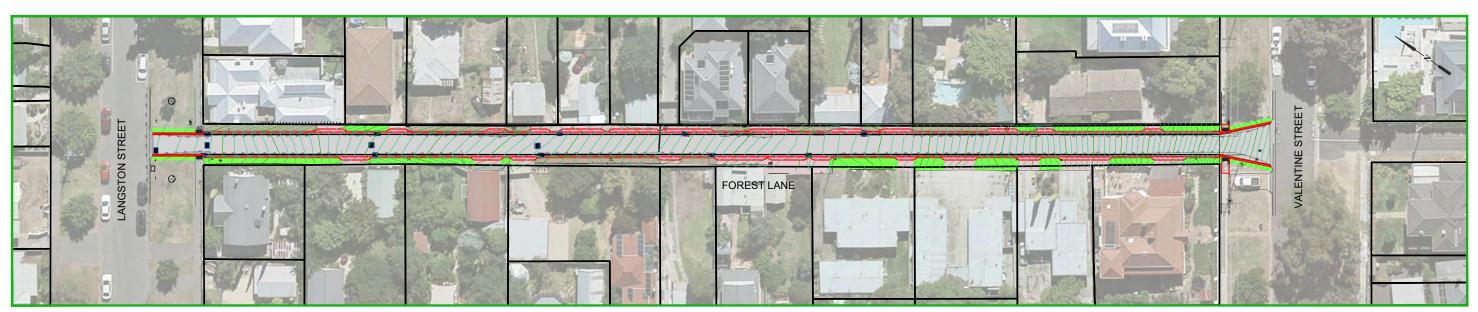
ROAD RENEWAL JANUARY 2023





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	DOCUMENT (CONTRO	DL	
SHEET No.	SHEET DESC.	31/01/23	xx/xx/xx	x/xx/xx
		DRAFT	TENDER	CONSTRUCTION
		REVISION	REVISION	REVISION
1	COVER SHEET	А		
2	GENERAL NOTES	Α		
3	DETAIL PLAN	Α		
4	DETAIL PLAN	Α		
5	LONGITUDINAL SECTION	А		
6	LONGITUDINAL SECTION	Α		
7	LONGITUDINAL SECTION	Α		
8	CROSS SECTIONS	Α		
9	CROSS SECTIONS	Α		
10	SETOUT	А		
11	SETOUT	А		

LOCALITY MAP



PROJECT EXTENTS

		PROJECT	PLANNING REQUIREMENTS			AMENDMENTS			CITV OI	GREATER BENDIGO	Survey	H. WHYTOCK		NOV '22	
	Item	Required	Comments	Contractor	Revision	Description	Approved by	/ Date		- GREATER DENDIGO	Design	M. JENNINGS		DEC '22	DDEL HUMARY REGION
V	egetation	No	-		-	-	-	-		FORFOTLANE	Checked	A. SMITH		-/-/22	IPRELIMINARY DESIGN I
	RRV	No	-							FOREST LANE	Approved by	N. SARTORI		-/-/22	DDAFT 4
	CMA	No	-							BENDIGO	Scale: -		Revision : A		DRAFT 4
Plan	nning Permit	No	-								Original shee	t size: A3	File: GB5090.dw	/g	
Land	d Acquisition	No	-							ROAD RENEWAL	Sheet:	Reference:			
	CHMP	No	-							OOVED OUEET	1 OF 1	₁ G	B5090		Plot Date: 31/01/2023
	Other	No	-							COVER SHEET	1 0 1	'			Plotted By: MEGAN JENNINGS

FILL NOTES

- All earthworks and compaction are to be in accordance with VicRoad's Specification
- All fill materials are to be approved by the Superintendent's Representative prior to being imported onto the site, and unless noted otherwise, shall be a clean clay based material free of vegetation matter or contaminants.
- All filling is to comply with AS3798 Appendix B, level 1 (or 2) as specified
- The Contractor is responsible for ensuring that all imported fill material, including topsoil, satisfies the description for clean fill material in EPA bulletin publication No. 448 (Sep 95) and subsequent revisions. The Contractor shall provide verification including test certificates to the Superintendent's Representative

ROAD CONSTRUCTION NOTES

- All Works to be carried out in accordance with CoGB Standard Drawings, Specifications, approved plans and to the satisfaction of the Superintendent's
- These notes also refer to the latest version of the Infrastructure Design Manual (IDM) and latest version of the IDM Standard Drawings.
- The Project Manager is to be notified seven days prior to the commencement of Works with a Pre-commencement meeting to be held between CoGB, the Consultant and the Contractor. A site management plan is to be submitted prior to the commencement of Works and prior to the onsite Pre-commencement meeting
- Prior to commencement of the Works, the Contractor shall provide the following:
 - Source of quarry material
 - N.A.T.A. approved test results for the F.C.R that is to be used
 - If the source of the quarry material is changed during the course of the Works,
- Prior to commencement of Works on site, the Contractor must ensure that all matters relating to the Occupational Health and Safety Act 1985, have been and will be complied with
- On the commencement of construction, the Contractor must comply with the recommendation of the Environment Protection Authority publication "Construction Techniques for Sediment Pollution Control". Appropriate siltation control is to be maintained throughout the construction and maintenance period of the Works.
- The disposal site for spoil storage, and truck removal route, is to be submitted in writing to, and approved by the Superintendent's Representative prior to the
- Where Works are in the vicinity of existing services, these services are to be located and exposed prior to commencement of the work. Relevant authorities are to be notified 7 days prior to the Works.
- All dimensions are in metres unless noted otherwise
- All levels are to Australian Height Datum (AHD) unless noted otherwise. 10.
- All co-ordinates are to Map Grid of Australia (MGA) unless noted otherwise
- The Contractor must arrange the inspection of the Works with the Superintendent's Representative as per the hold points in the Specifications, or as directed by the Superintendent's Representative.
- 13. All redundant assets are to be removed and disposed off site unless noted
- All service conduit trenches under road pavements, under footpaths and under swales are to be backfilled as per IDM SD310 unless noted otherwise. Compaction 14 standards noted in SD310 shall be achieved.
- Blasting is not generally accepted.
- All existing assets affected by the Works (i.e. signs, vehicle crossings, footpaths, kerb and line marking) shall be reinstated by the Contractor before the completion of Works, to the satisfaction of the Superintendent's Representative.
- At the completion of all Works, all rubbish, debris and surplus spoil shall be removed and the site shall be cleared to the satisfaction of the Superintendent's
- The Contractor is to obtain a Building Permit for any structures, fences and for any retaining walls over 1.0m in height.
- Any infrastructure damage incurred during the Defects Liability Period noted on the contract is the responsibility of the Contractor and is to be reinstated to the satisfaction of the Superintendent's Representative.
- All disturbed areas (eg. nature strips, batters, allotments and reserves) are to be reinstated to a clean, tidy condition, top dressed with 75mm min. depth approved top soil, and seeded with a CoGB approved blend or unless otherwise noted. Soil & seeded treated areas must be satisfactorily established prior to the end of the ntenance Period otherwise further treatment is required by the Contracto
- Any exposed aggregate concrete works are to be achieved by sandblasting only. Washing aggregate off with water is not permitted. 21.
- The Contractor shall notify the public of any impending road closures by providing sufficient signage 2 weeks prior to construction commencing

GENERAL CONSTRUCTION NOTES

- All kerb, footpath and pram crossing constructions shall have bedding/boxing inspected by the Superintendent's Representative prior to pouring of concrete
- If property stormwater outlets (not already identified on plan) are located during construction, it is the Contractors responsibility to connect them into council underground drainage or back of kerb (As per IDM SD 510 & IDM SD 505) to the approval of the Superintendent's Representative
- Renewal of gas and water property service conduits to be 100mm@PVC (sewer
- All redundant footpath, kerb and road seal to be saw cut and removed from site
- Naturestrip is to be: 50mm depth (15% compaction), Spread and rake Seed (COGB approved seed blend) at rate 40g/m2

PAVEMENT NOTES

- Construction of road payements is to be in accordance with the requirements of VicRoad's Standard Specifications for Roadworks (Section 304). Testing must be carried out by a N.A.T.A. approved laboratory, or by calibrated nuclear densometer test to the relevant Australian Standard
- Compaction tests are to be undertaken in the following locations:
 - At 3/3 depth of the pavement
 - At alternating sides of the road
 - 1.0m in from the seal edge or lip of kerb
 - At even spacings.
- The number of compaction tests shall comply with the table below.

Number of Compaction tests Location

Court bowls Intersections

1 per 500m2 (1/50m for 10.2m wide pvmt.) Straights

- Copies of the geotechnical results are to be submitted to the Superintendent's
- Sub-base and base materials are to be at 85% optimum moisture content (OMC) during compaction, and maintained at 85% OMC until proof rolling.
- Typical Compaction levels required (unless noted otherwise)

Subgrade: To be compacted to 100% standard dry density ratio.

Subbase: Flexible pavements shall be compacted in accordance with Scale C in VicRoads table 304 092

Compaction shall be to 98% of the maximum dry density ratio determined by the

Base: Flexible pavements shall be compacted in accordance with Scale C in VicRoads table 304.082.

Compaction shall be to 100% of the maximum dry density ratio determined by the

- Proof rolling of the Subgrade, Sub base and Base must be undertaken as per Section 12.7.15 of the IDM. Proof rolling will be at the expense of the contractor in accordance with AS3798 and the requirements of section 173 and 204.12 of the VicRoad's Specification. The Superintendent's Representative must be present during the proof rolling. The Subgrade must not deflect more than 2mm vertically
- Identification and treatment of soft areas during proof rolling shall be dealt with as per Sections 12.7.13 and 12.7.14 of the IDM and as approved by the

SUBGRADE CONSTRUCTION NOTES

- Pulverise existing road pavement (including seal) to a nominated depth ensuring that all asphalt and seal is grounded to a suitable size for workability.
- Pulverised material to be windrowed and mixed to create a consistent mix over the full width of the road before spreading, trimming and lightly compacting/shaping to form desired subgrade road level
- After the completion of excavation to subgrade/sub-base finished level, material shall be inspected by the Superintendent's Representative before any stabilising commences. The nominated stabilising product, blend and spread rate shall then be confirmed at this point once the formed subgrade material has been visually assessed by the Superintendent's Representative
- Subgrade to be treated and stabilised as per the Stabilising Contractor's guidance to achieve a 28-day UCS result of 2MPa and compacted to not less than 98% Modified
- Within 4 hours of binder being added, subgrade material should be graded & trimmed to level and compacted to a minimum density ratio of 98% Modified Maximum Dry
- The Superintendents Representative will require density testing results of the subgrade as well as Unconfined Compressive Strength (UCS) Tests to confirm that the stabilising has achieved a satisfactory result.
- Proof rolling of the Subgrade, Sub base and Base must be undertaken as per Section 12.7.15 of the IDM. Proof rolling will be at the expense of the contractor in accordance with AS3798 and the requirements of section 173 and 204.12 of the VicRoad's Specification. The Superintendent's Representative must be present during the proof rolling. The Subgrade must not deflect more than 2mm vertically within 300mm of the test roller in isolated locations.
- Identification and treatment of soft areas during proof rolling shall be dealt with as per Sections 12.7.13 and 12.7.14 of the IDM and as approved by the Superintendent's

AMENDMENTS



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.

SERVICE AUTHORITY ASSETS WITHIN THE WORKS AREA

- SERVICE AUTHORITY UNDERGROUND INFRASTRUCTURE
 - The location of underground services has been derived from available information, and shown on the plans. However accuracy cannot be guaranteed. All existing service information should therefore be treated as indicative only and exact service locations must be arranged onsite prior to commencement of any excavation. The contractor will be held responsible for any damage caused to underground services.
- PIT LIDS and VALVE COVER LEVELS and LOCATION
 - All service pit lids or valve covers within the works area are to be raised or lowered to match design surface level unless noted otherwise on the construction plans, or by approval from the Superintendent.
 - Any service authority marker posts found within the works area are to be relocated adjacent to their current position to a point 150mm offset from the nearest property boundary.
- SERVICE AUTHORITY ASSET RENEWAL
 - Any sewer pit covers and or water valve covers within the works area are to be renewed to Coliban Water standards unless noted otherwise.
 - PSM covers are to be renewed to CoGB standards using a 300x300mm galvanised steel checker plate flat cover.
 - All other valve covers or pits within the works area are not to be renewed unless noted otherwise on the construction plans, or by agreement with the

FOOTPATH CONSTRUCTION NOTES

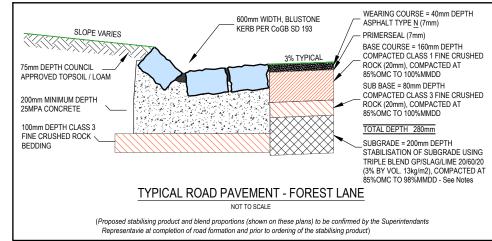
- Footpath to be constructed to IDM SD205 unless noted otherwise
- Expansion joints as per IDM SD210 to be constructed at any joins with existing ootpath/driveways or bridges or where noted.
- IDM SD210 expansion joints along new sections of footpath are to be at a maximum separation of 14m centres as per IDM SD205.
- Tool joints are to be at 1.5m centres for 1.5m wide footpath, 2.5m centres for 2.5m wide footpath and to be constructed as per IDM SD210 unless noted otherwise.
- Batter work and associated top soiling is to be limited to 2.0m from design edge of the footpath or unless otherwise noted. This width cannot be altered without consent
- Plant and equipment is to be kept within the finished works area to avoid unnecessary damage to nature strips.
- Pedestrian crossings are to be as per CoGB SD192
- All TGSIs are to be black (if on plain concrete), or white (if on black concrete) and shall be fibre reinforced polymer type and positioned in accordance with AS1428 unless noted otherwise or by direction from the Superintendent.
- Any residential mailboxes found to be in conflict with councils proposed assets (within the road reserve) shall be relocated to a position within the property in consultation with the landowner. Should the mailbox be a brick or concrete structure, the mailbox shall be demolished and consultation with the Superintendent shall be sought prior to reconstruction of a similar structure within the property
- Once works are completed, contractor must undertake a site walk with the Superintendent to identify any hazards or level differences with the works area. Once the site walk is complete, the area may be opened to public use
- All fill material is to be clean clay based soil, free of vegetative matter and is to be
- All earthworks are to be in accordance with VicRoads Specification Section 204

DRAINAGE CONSTRUCTION NOTES

- The Superintendent's Representative and Design Engineer must be notified if any any modifications to drainage design are required due to unforeseen circumstances identified during works onsite.
- Any property storm water pipes located during Works are to be plumbed to the nearest pit. Where this is not practical, seek approval from the Superintendent's Representative to connect stormwater into kerb or into the nearest storm water pipe.
- All drainage pits are to be constructed as per the noted Standard Drawing.
- Invert fall through pits is to be a min, of 30mm unless noted otherwise
- Concrete pit walls are to be sponge finished and floors are to be shaped for best nydraulic efficiency unless noted otherwise
- Pit lids are to be installed flush with the surrounding surface unless noted otherwise.
- Where concrete box culverts (CBC) or Crown Units are specified, they are to be
- Pipe extensions are to be constructed by removing the remaining stub of the existing pipe to be extended, and then connecting the new pipe at the socket
- All pipe backfill is to be constructed as per the noted Standard Drawing
- The location of any saw cuts in asphalt are to be kept the minimum required trench width until after the pipe is laid and backfilled up to 300mm from surface. At this point, a further 150mm wide, 300mm deep section of asphalt/payement is to be sawcut and excavated so as to provide a longitudinal pavement join over the drainage trench. This also should ensure a straight edge for re-asphalting. The top 300m depth of backfill should then be constructed accordingly. Refer to CoGB SD
- At the completion of the Works, pipes are to be visually inspected via inspection pits to check for construction debris, including crushed rock, soil and concrete over spill. Should a volume of debris be present enough to impede flows, pipe cleaning shall be undertaken at the contractors expense.
- Gas and water property services are generally not located during the design phase and therefore have not been shown on plans. It is therefore the Contractors responsibility to consider these services when excavating and adjust or realign accordingly whilst causing minimal disruption to property owners
- Gas and Water property services encountered during construction are to be altered and reconnected to the appropriate standard and to the satisfaction of the Superintendents Representative.

SIGNAGE, GUIDE POSTS, LINEMARKING & RRPMS

- All existing signage, linemarking guideposts and RRMPs within Works site are to be removed as per the 'demolition plan
- All proposed Signage, linemarking, guideposts and RRPMs are to be installed as per the 'Linemarking and signage plan
- All signs to be installed shall be Class 1 high intensity type and comply with the
- All guideposts are to have delineators satisfying the requirements of AS1906.2

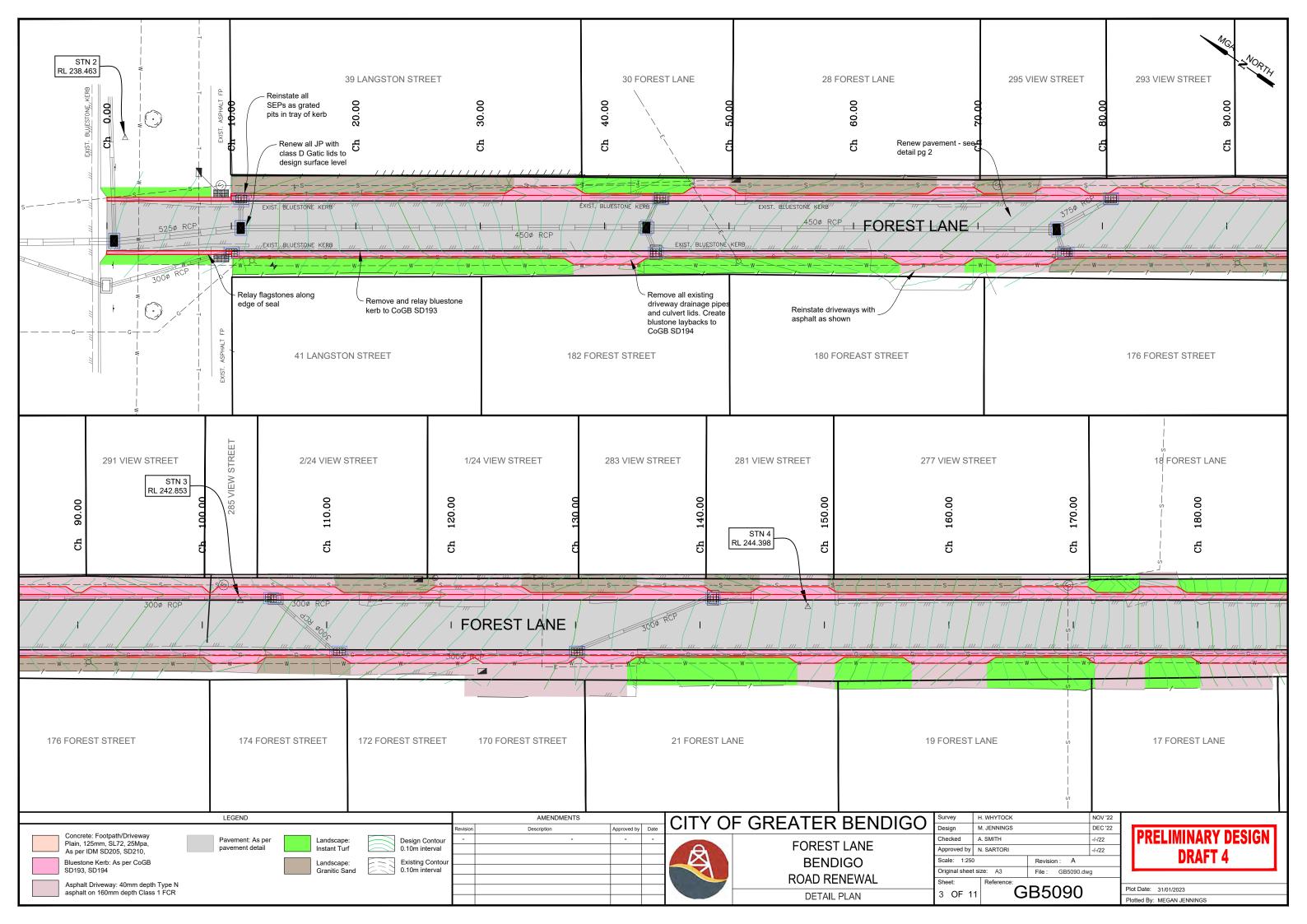


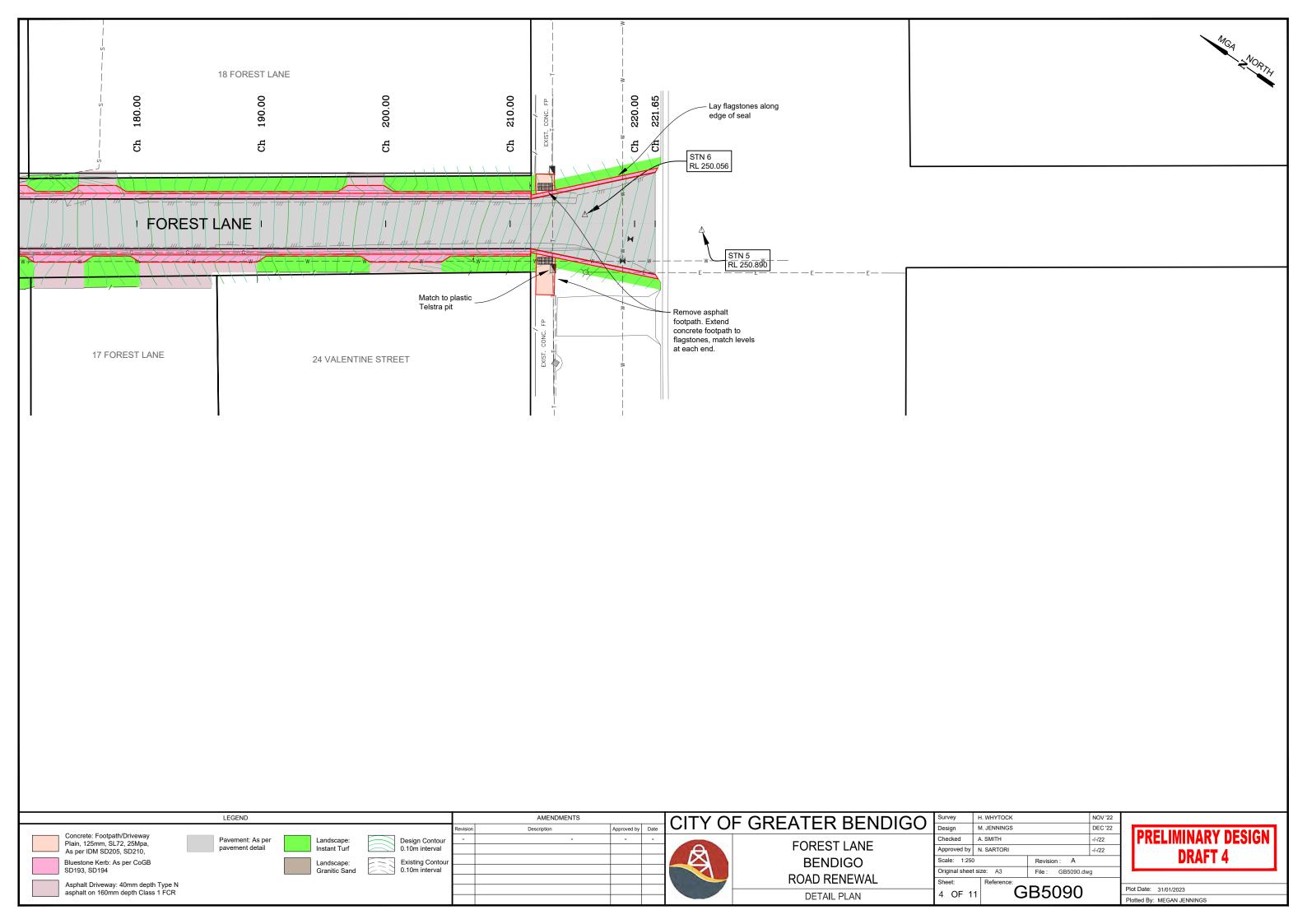
CITY OF GREATER BENDIGO Approved by Date **FOREST LANE BENDIGO** ROAD RENEWAL **GENERAL NOTES**

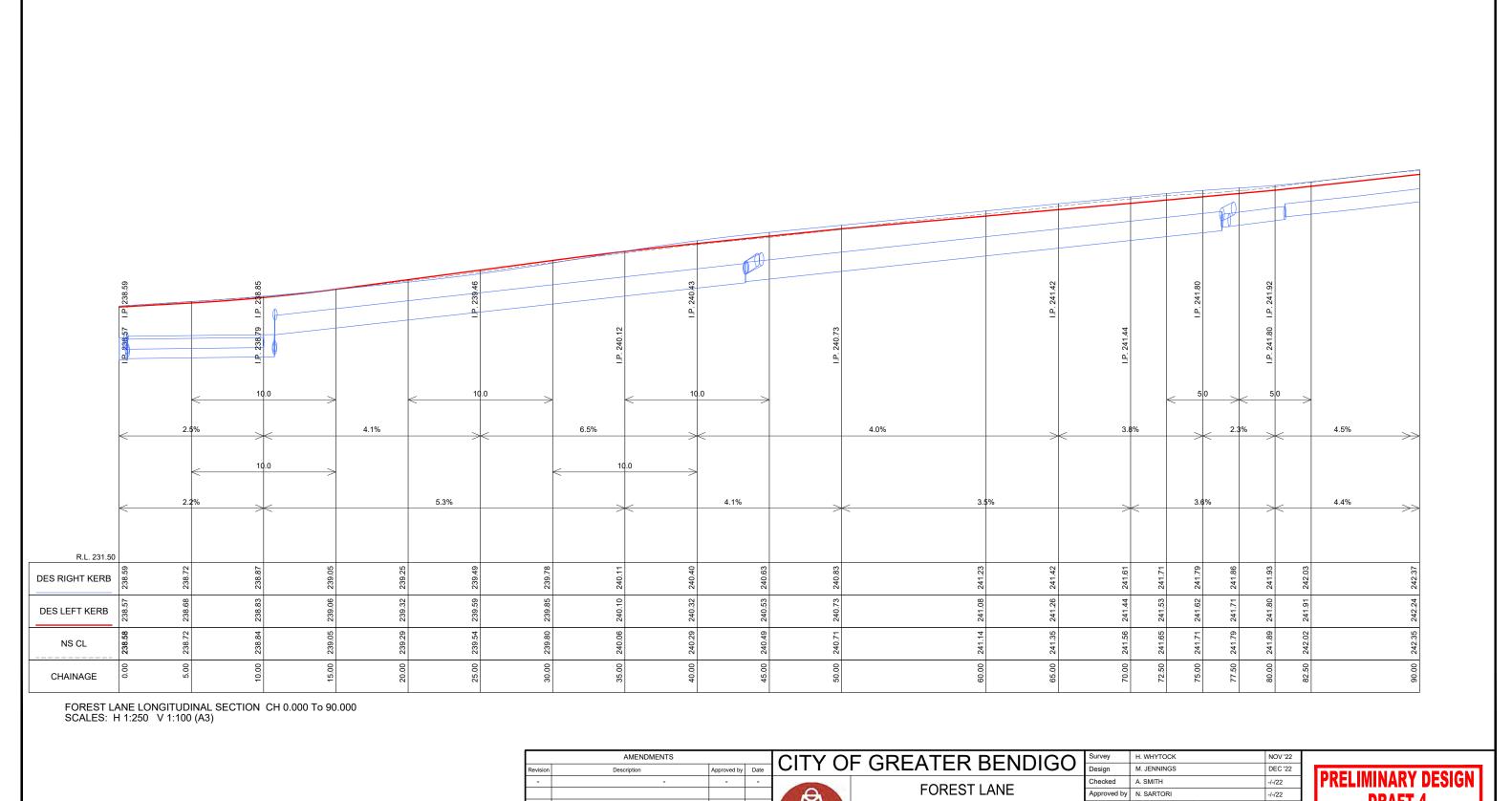
H. WHYTOCK NOV '22 Survey M. JENNINGS DEC '22 Design Checked A. SMITH -1-122 Approved by N. SARTOR -/-/22 Scale: Revision: A Original sheet size: A3 File: GB5090.dwg GB5090 2 OF 11

PRELIMINARY DESIGN DRAFT 4

Plot Date: 31/01/2023 Plotted By: MEGAN JENNINGS







BENDIGO

ROAD RENEWAL

LONGITUDINAL SECTION

Scale: AS SHOWN

5 OF 11

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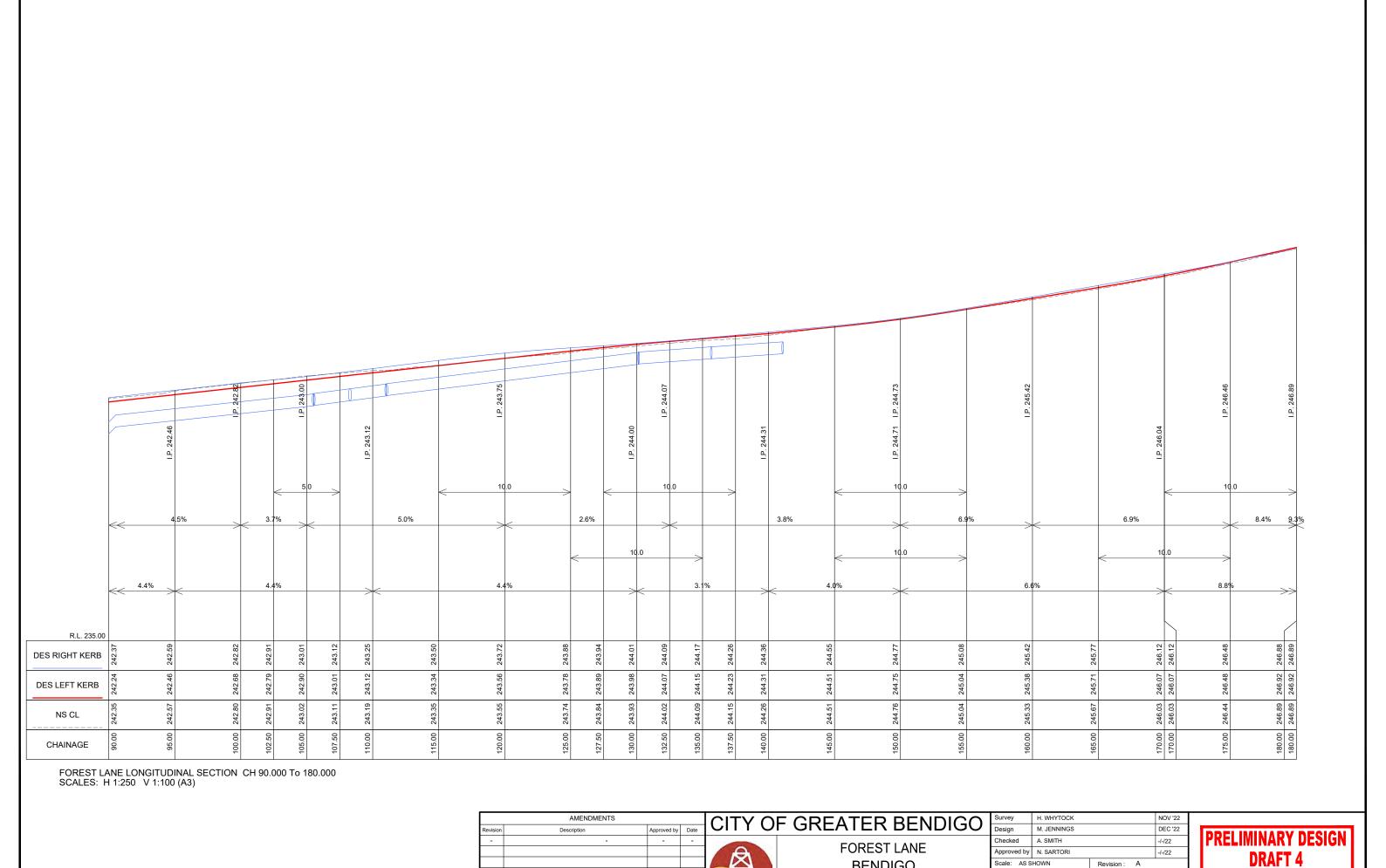
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ROAD RENEWAL

LONGITUDINAL SECTION

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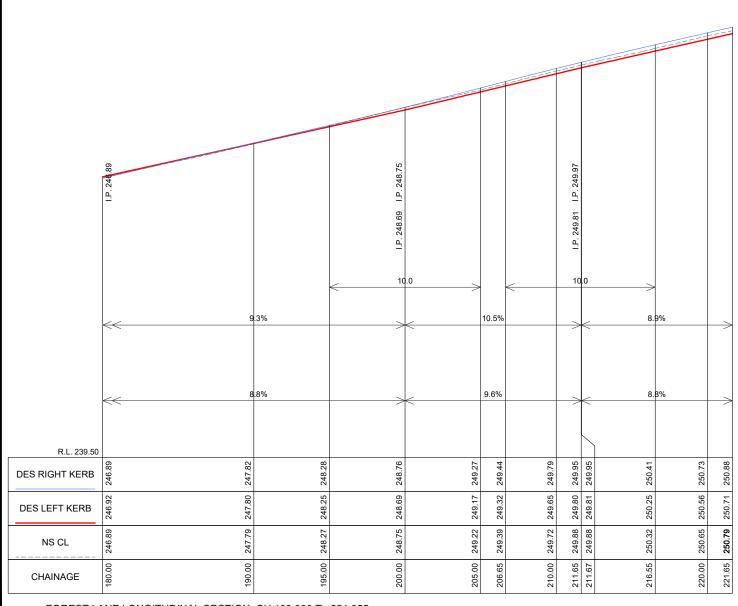
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File: GB5090.dwg

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GB5090



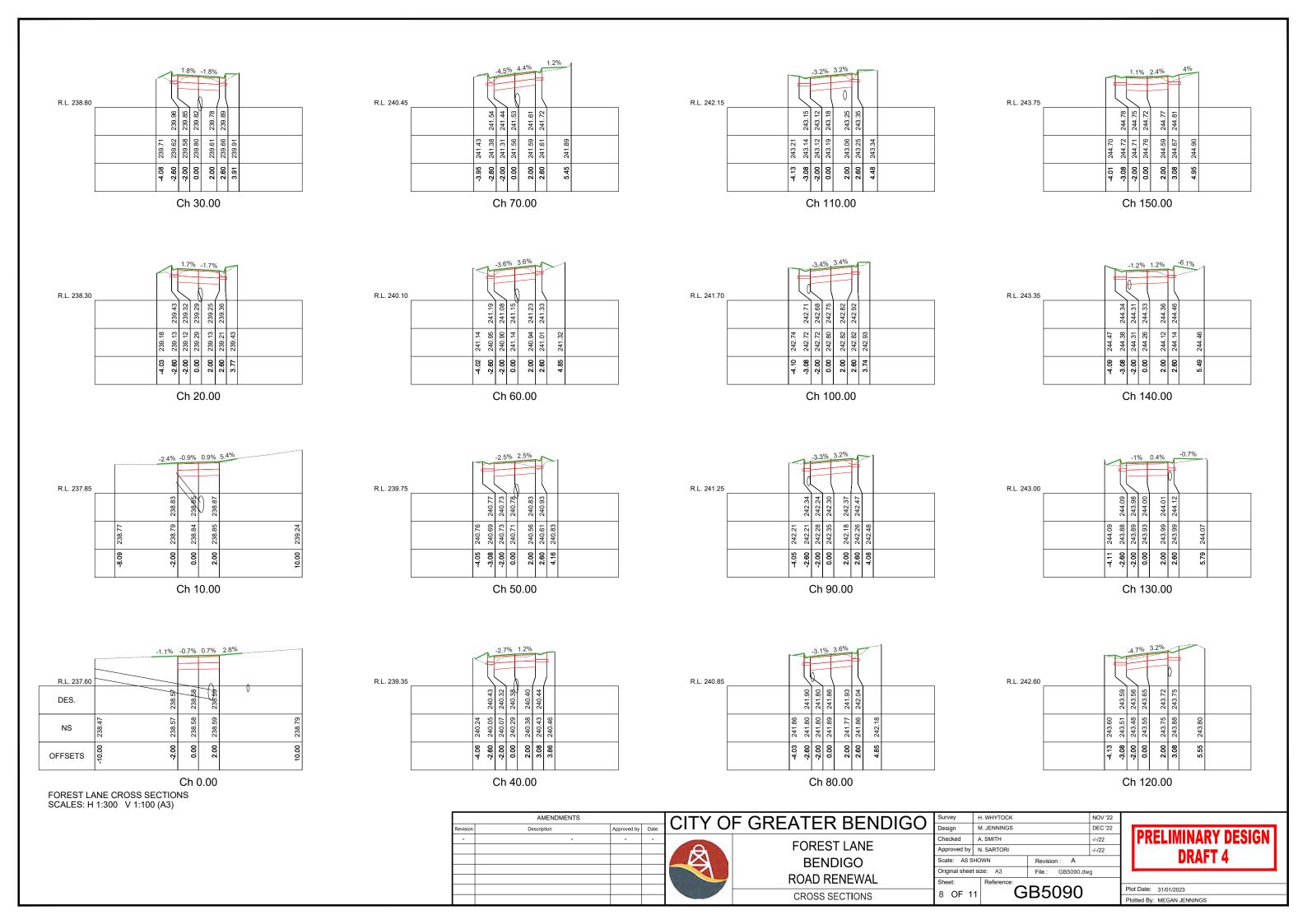
FOREST LANE LONGITUDINAL SECTION CH 180.000 To 221.655 SCALES: H 1:250 $\,$ V 1:100 (A3)

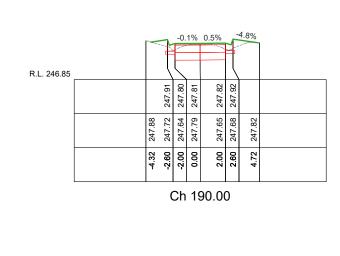
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					FOREST LANE
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_					LONGITUDINAL SECTION

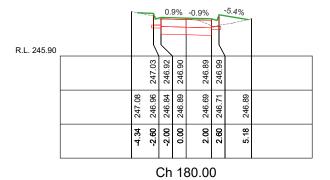
Survey	H. WHYTOCK	H. WHYTOCK					
Design	M. JENNINGS	DEC '22					
Checked	A. SMITH	A. SMITH					
Approved by	N. SARTORI		-/-/22				
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7 OF 11 GB5090							

PRELIMINARY DESIGN **DRAFT 4**

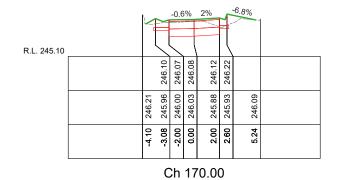
Plot Date: 31/01/2023 Plotted By: MEGAN JENNINGS

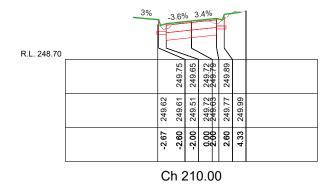


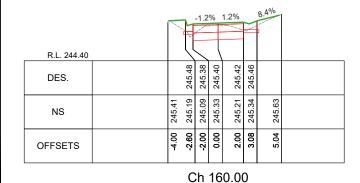




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R.L. 247.70 -3.99 248.71 -2.60 248.63 248.69 -2.00 248.75 248.71 2.00 248.75 248.71 2.00 248.63 248.76 3.08 248.73 248.89 3.91 248.84 Ch 200.00

FOREST LANE CROSS SECTIONS SCALES: H 1:300 V 1:100 (A3)

	AMENDMENTS			CITY OF GREATER BENDIGO			
Revision	Description	Approved by	Date	TOLLL OF GUENTER DEND			
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					ROAD RENEWAL		

FOREST LANE **BENDIGO ROAD RENEWAL** CROSS SECTIONS

Survey	H. WHYTOCK	NOV '22	
Design	M. JENNINGS		DEC '22
Checked	A. SMITH		-/-/22
Approved by	N. SARTORI		-/-/22
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