

6.2.5 Sealing the Hills - Caroline Avenue, Cockatoo catchment - Special Charge Scheme declaration

Responsible GM: Peter Benazic
Author: Ken White

Recommendation(s)

That Council:

1. Notes that following the issue of the Notice of Decision by Council to declare a special charge scheme on the 17 May, 2021, to part fund the construction of Caroline Avenue, Boronia Crescent and Rouen Road, Cockatoo, no submissions or objections were received by Council in the prescribed 28 day submission period following advertising this decision.
2. That a special charge in accordance with Section 163 of the Local Government, 1989 ('the Act') be declared as follows:
 - a) A special charge is declared for a period until the works have been completed and the scheme finalised.
 - b) The special charge be declared for the purposes of defraying any expenses incurred by Council in relation to the construction of Caroline Avenue, Boronia Crescent and Rouen Road, Cockatoo including sealed road pavement, kerb & channel and associated drainage and incidental works. Council considers that these works will be of special benefit to those persons required to pay the special charge, (and who are described in succeeding parts of this resolution).
 - c) The special benefit accruing to those properties to be levied is considered to include improved access, improved amenity and appearance, improved roadside drainage, reduced mud and dust, reduced erosion and lessened nuisance.
 - d) The following be specified as the area for which the special charge is declared:
 - All those properties described in attachment 4 of this report and as highlighted on the plan included as attachment 2.
 - e) The following be specified as the land in relation to which the special charge is declared:
 - All properties described in attachment 4 of this declaration.
 - f) The following be specified as the criteria which form the basis of the special charge so declared:
 - Those properties fronting, abutting or adjacent to the works.
 - g) The following be specified as the manner in which the special charge so declared will be assessed and levied:
 - Existing lots, either developed or vacant, that gain, or will gain, primary (vehicular) access from a road being constructed would generally be required to contribute one benefit unit.
 - Existing lots, either developed or vacant, with side or rear abuttal to a road being constructed would generally be required to contribute one half benefit unit.
 - Existing lots, either developed or vacant, that gain, or will gain, primary access and also have side or rear abuttal to roads being constructed would generally be required to contribute one benefit unit.
 - Existing lots that have the potential to be further subdivided or developed may be allocated a multiple development benefit unit charge.

- The special charge will be levied by sending a notice to the person who is liable to pay, pursuant to Section 163 (4) of the Local Government Act, 1989.
- h) The total cost of the works is the amount shown in attachment 4 of this report estimated at \$2,019,400.
- i) The total amount of the special charge to be levied is the amount shown in attachment 4 of this report estimated at \$598,500.
- j) Having regard to the proceeding parts of this resolution but subject to Sections 166(1) and 167(6) of the Local Government Act, 1989, it is recorded that:
 - i) The owners of the land described in columns A and B of the table in attachment 4 are estimated liable for the respective amounts set out in column F of the table in attachment 4 and;
 - ii) Such owners may, subject to any further resolution of Council pay the special charge in the following manner:
 - a. The charge will become due and payable within one month of the issue of the notice requesting payment pursuant to Section 167(3) of the Local Government Act, 1989.
 - b. The charge may be paid by:
 - iii) # Lump sum within one month of the issue of the notice without incurring interest, or
 - iv) # Quarterly instalments of principal and interest over a period of up to seven years.
 - c. Interest will not be charged for three months after the issue of the notice provided the person liable makes timely payment in accordance with the payment arrangements that may be agreed on by Council.
 - d. In accordance with Sections 167(6)(b) and 172 of the Act, the rate of interest which is payable on instalments is set at the 180 day bank bill rate as published in the Australian Financial Review plus one percent and reviewed every three months, (provided that it will not exceed the rate fixed by the Governor in Council by order of the purposes of Section 172(2A) in which case the rate of interest shall be the maximum rate fixed by the Governor in Council by order for the purposes of this section).
 - k) There are no incentives for prompt payment, rebates or concessions associated with this special charge.

Attachments

1. SCS Process Declaration Check list Sealing the Hills Program [6.2.5.1 - 2 pages]
2. Caroline Avenue Cockatoo Catchment - Special Charge Scheme (SC S) Map [6.2.5.2 - 1 page]
3. Caroline Ave preliminary construct plans [6.2.5.3 - 91 pages]
4. SCS Apportionment Sheet - Caroline Ave Cockatoo catchment [6.2.5.4 - 3 pages]

Executive Summary

This report proposes to have a special charge declared to part fund the construction of Caroline Avenue, Boronia Crescent and Rouen Road, Cockatoo. It follows Council's resolution of the 17 May, 2021 to communicate its intention to declare a special charge for this purpose.

The Caroline Avenue, Cockatoo catchment is included in the Australian Government funded "Sealing the Hills" program. A recent survey of the landowners in this catchment indicated 65% landowner support to contributing to a scheme from the responses received. Included landowners will receive special benefit as a result of the works including improved resident amenity, reduction in dust and associated health issues, improved drainage, less wear and tear on vehicles, reduced road maintenance costs and overall improved liveability.

The preliminary estimated cost of the proposed works is \$2,019,400 of which \$598,500 is proposed to be funded via the proposed special charge contribution received from the included landowners. This will leave an approximate balance of \$1,420,900 to be funded from the Australian Government grant.

Property owner contributions have been assessed on the basis of the benefit gained by each existing developed or vacant allotment, capped by Council at \$7,000 per benefit unit, (refer to benefit unit definition below). Council's special rates and charges policy provides for levies to be paid in quarterly instalments that include principle and interest. For the Sealing the Hills program it has been decided that a maximum seven (7) payment period be adopted. The financial hardship provisions of this policy provide further relief to those owners demonstrating genuine financial hardship.

Following Council's resolution on the 17 May, 2021 included property owners were notified of the intention to declare a special charge by mail and by advertisement in the Pakenham Gazette and Hills Trader. No submissions or objections were received by Council in the prescribed 28 day submission period.

Background

The Caroline Avenue, Cockatoo catchment that includes Caroline Avenue, Boronia Crescent and Rouen Road is included for construction in Councils Sealing the Hills program. The properties included are shown on the plan included as attachment 2 to this report.

A survey of the property owners within the scheme boundary, (total of 77), was undertaken asking if they were in support of contributing to a special charge scheme at a capped contribution rate of \$7,000 per benefit unit, with a benefit unit being defined as:

- Existing lots, either developed or vacant, that gain, or will gain, primary (vehicular) access from a road being constructed would generally be required to contribute one benefit unit (\$7,000) towards the cost of construction.
- Existing lots, either developed or vacant, with side or rear abuttal to a road being constructed would generally be required to contribute one half benefit unit (\$3,500) towards the cost of construction.
- Existing lots, either developed or vacant, that gain, or will gain, primary access and also have side or rear abuttal to roads being constructed would generally be required to contribute one benefit unit (\$7,000) in total
- Existing lots that have the potential to be further subdivided or developed may be allocated a multiple development benefit unit charge.

Of the seventy seven properties surveyed Council received fifty, (50), responses, (or 65%). Thirty seven, (65%), of these responses indicated support to contributing to the scheme, while thirteen, (35%), indicated opposition. Both sections of Caroline Avenue, (east and west of Bell Street), and Boronia Crescent had a higher percentage of supporting owners verses opposing owners. Of the four properties in Rouen Road, one owner indicated support, two owners indicated opposition and one owner did not respond. Following consideration of the survey responses a special charge scheme has been prepared to part fund the construction of Caroline Avenue, Boronia Crescent and Rouen Road.

Following Council's resolution on the 17 May, 2021 affected property owners were notified of the intention to declare a special charge. This included the Education Department who have been levied \$63,000 in relation to the additional traffic generation and parking demand associated with the Cockatoo Primary school that abuts Caroline Avenue. To date no response has been received from the department. No property owner submissions or objections were received within the prescribed 28 day submission period.

Policy Implications

The proposed special charge scheme has been developed in accordance with the provisions of the Local Government Act, Cardinia Councils Special Rate and Charge Policy and the adopted Sealing the Hills program. It is based on community benefit, health, safety, amenity and landowner support.

Section 163 of the Local Government Act provides that Council may not recover a greater portion of the cost of the works than calculated in accordance with the statutory 'benefit ratio' as set out in attachment 3 to this report. Given that Council has capped the property owner contribution at \$7,000 per benefit unit, the proposed scheme is compliant.

Relevance to Council Plan

3.2 Our Environment - Transport linkages connecting towns

3.2.1 Upgrade Council roads to improve safety while considering the traffic demand of the community.

3.2.2 Continue the use of special charge schemes to finance road, drainage and footpath improvement programs.

Climate Emergency Consideration

The Sealing the Hills project will consider climate emergency reduction issues such as:

- Minimising tree removal through innovative road design.
- Use of LED lighting to reduce energy emissions.
- Utilising local contractors and local road & drainage construction materials to minimise travel.
- Investigating the reuse and use of recycled road construction materials.

Consultation/Communication

A letter was sent in January of this year to the landowners of Caroline Avenue, Boronia Crescent and Rouen Road outlining specifics in relation to their inclusion in the Sealing the Hills program and the associated special charge scheme proposal. A subsequent face to face community consultation session was held at the Cockatoo Community Centre in early February, from 4.00pm to 7.00pm in the evening, to give owners and residents an opportunity to view plans and comment of the proposal. Approximately 25 people attended.

In mid February a questionnaire was sent by registered mail to landowners asking them to indicate their support / opposition to contributing to a special charge scheme at the capped rate of \$7,000 per benefit unit. When Council became aware of mail delivery issues in Cockatoo a door knock / reminder letter drop was undertaken of properties who had not responded to the questionnaire and the response date extended by one month. As outlined above 50 questionnaire responses from the 77 included properties were received.

Following the Council resolution on the 17 May, 2021 to issue a notice of intention to declare a special charge, property owners were sent a letter and advertisements outlining the proposal placed in the Pakenham Gazette and Hills Trader, providing owners with the opportunity to make a submission or objection within the prescribed 28 day period.

Financial and Resource Implications

The scheme funding arrangements are as follows:

PRELIMINARY ESTIMATED COST OF PROJECT	\$2,019,400
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Total Council Contribution (70%)	\$1,420,900
Benefitting Landowner Contribution (30%)	\$598,500

Note: the estimated project cost includes an allowance of 15% for design, supervision and administration of the scheme.

The Australian Government 150 million dollar grant will be used to fund Councils contribution.

Landowners will be offered the option of paying their contribution in full, or by quarterly instalments over seven years. Instalment payments will include principle and interest, with interest calculated at the declaration of the scheme based on Councils borrowing rate at the time plus one percent.

Council will require the first payment, either in full or by instalment to be made within six months of the practical completion of the works.

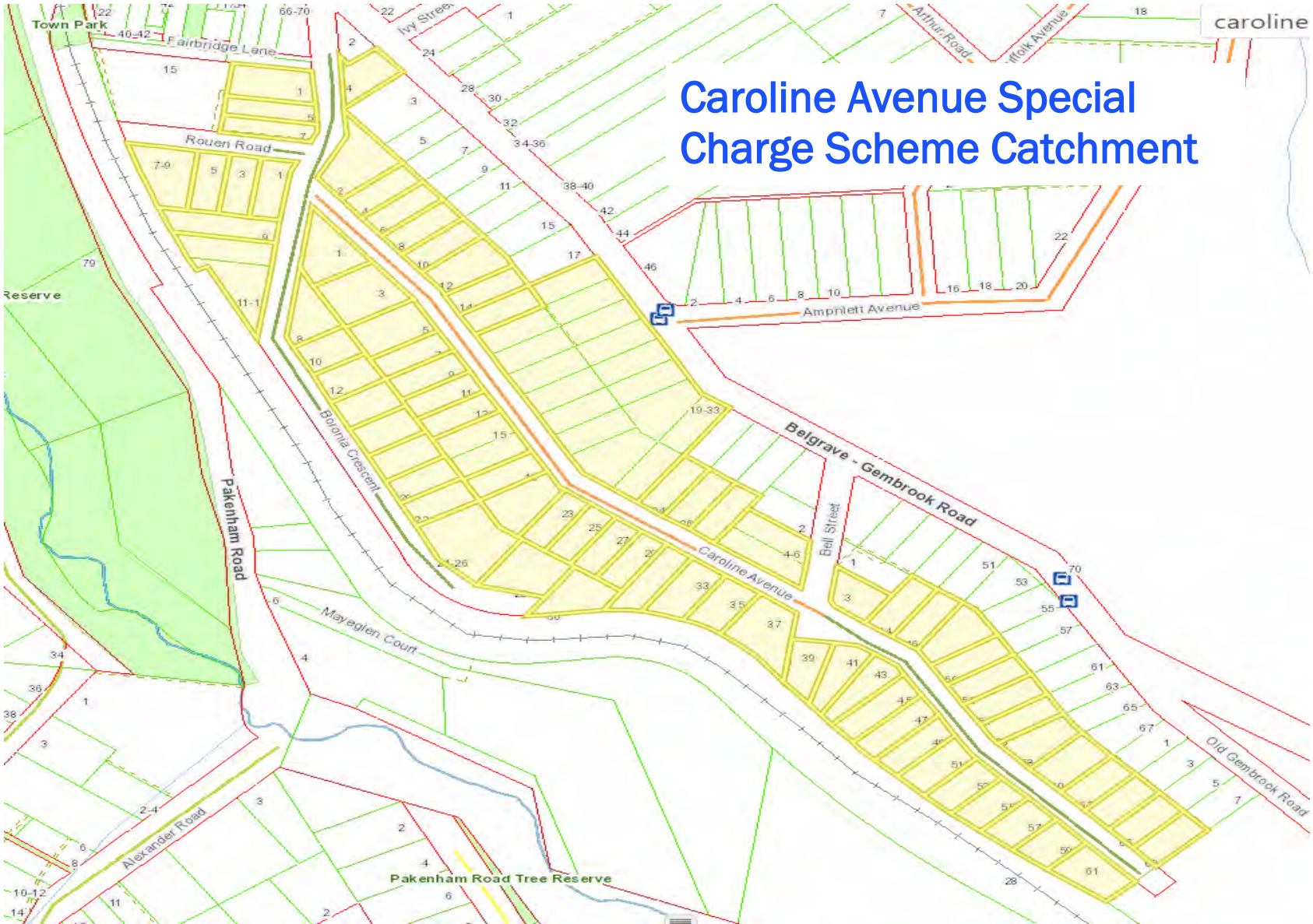
Conclusion

That Council proceed to declare a special charge over the properties listed in attachment 4 to part fund the construction of Caroline Avenue, Boronia Crescent and Rouen Road, Cockatoo, including a sealed road pavement, kerb and channel and associated drainage and ancillary works, generally in accordance with the concept plans included in attachment 3.

SEALING THE HILLS PROGRAM –**SPECIAL CHARGE SCHEME PROCESS CHECK LIST****SPECIAL CHARGE PROJECTS – (Section 163 – Local Government Act 1989)**

	Stage	Description
✓	Survey of Landowners	Initial survey of property owners to assist in determining the need, associated issues and level of support for the proposed works and special rate/charge scheme.
✓	Approval to prepare scheme	Decision made to prepare scheme or to shelve project following consideration of the survey of property owners and feed back from the community. If the decision is that the scheme should proceed, the engineering design is completed and a detailed estimate and an apportionment of costs are prepared. If a decision is made that the scheme should not proceed based on resident and community feed back, the affected residents are advised accordingly
✓	Intention to Declare Scheme	Report to Council providing information on proposed scheme including advice of impending advertising of scheme and declaration of charge. Report seeks Council approval by resolution to proceed with process.
✓	Advertisement and Notification	The proposed scheme is advertised in the local newspaper and all affected property owners are notified by mail of proposed works, costs and contributions. This advertisement and notification indicates Council's intention to 'declare' a scheme in a month's time and seeks submissions from affected property owners. Details of the scheme may be inspected at the Shire Offices.
✓	Submissions	From the time of advertising, property owners have 28 days (as set down by the Act) to lodge submissions, either in support or opposing the proposed scheme.
	Submissions Review Panel Hearing	A Submissions Review Panel is convened (may be Council Committee or whole Council) and meets to consider submissions. Some submissions are written only. Submitters may also request to be heard before the Committee. The Panel makes a recommendation to Council regarding the scheme.
	Abandonment of scheme	The Panel may recommend to Council that the scheme be abandoned. After considering the Panel's report, Council may proceed to abandon the scheme following which property owners are notified and the scheme does not proceed.
✓	Declaration Report	Alternatively the Panel may recommend to Council that the scheme proceed. After considering the Panel's report, Council may proceed to "declare" the charges in accordance with its advertised intent. Subsequent to this the Finance Manager issues the levy notices and there is a formal charge placed on the property. This is the final step in the process for Council to make a decision on the scheme.
	Appeal	Property owners may lodge an application for review of Council's decision with the Victorian Civil and Administrative Tribunal (VCAT) within one month of issue of the levy notice. An appeal is listed, heard

		and determined by the Tribunal and this process generally takes four to six months. Decisions made by VCAT are binding on all parties.
	<i>Construction</i>	Council may then proceed to construction. Tenders are invited and a contractor appointed to construct the works. Invoices are issued seeking payment of the declared contribution. Payment may be by instalments or lump sum. The Social Responsibility provisions of Council's Special Charge Policy provides for those facing financial difficulty.
	<i>Final Cost Report</i>	At the completion of the works the scheme is "finalised" and a report presented to Council.



Caroline Avenue Special Charge Scheme Catchment

ROAD RECONSTRUCTION WORKS: CAROLINE AVE & BORONIA CRESCENT, COCKATOO

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PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION

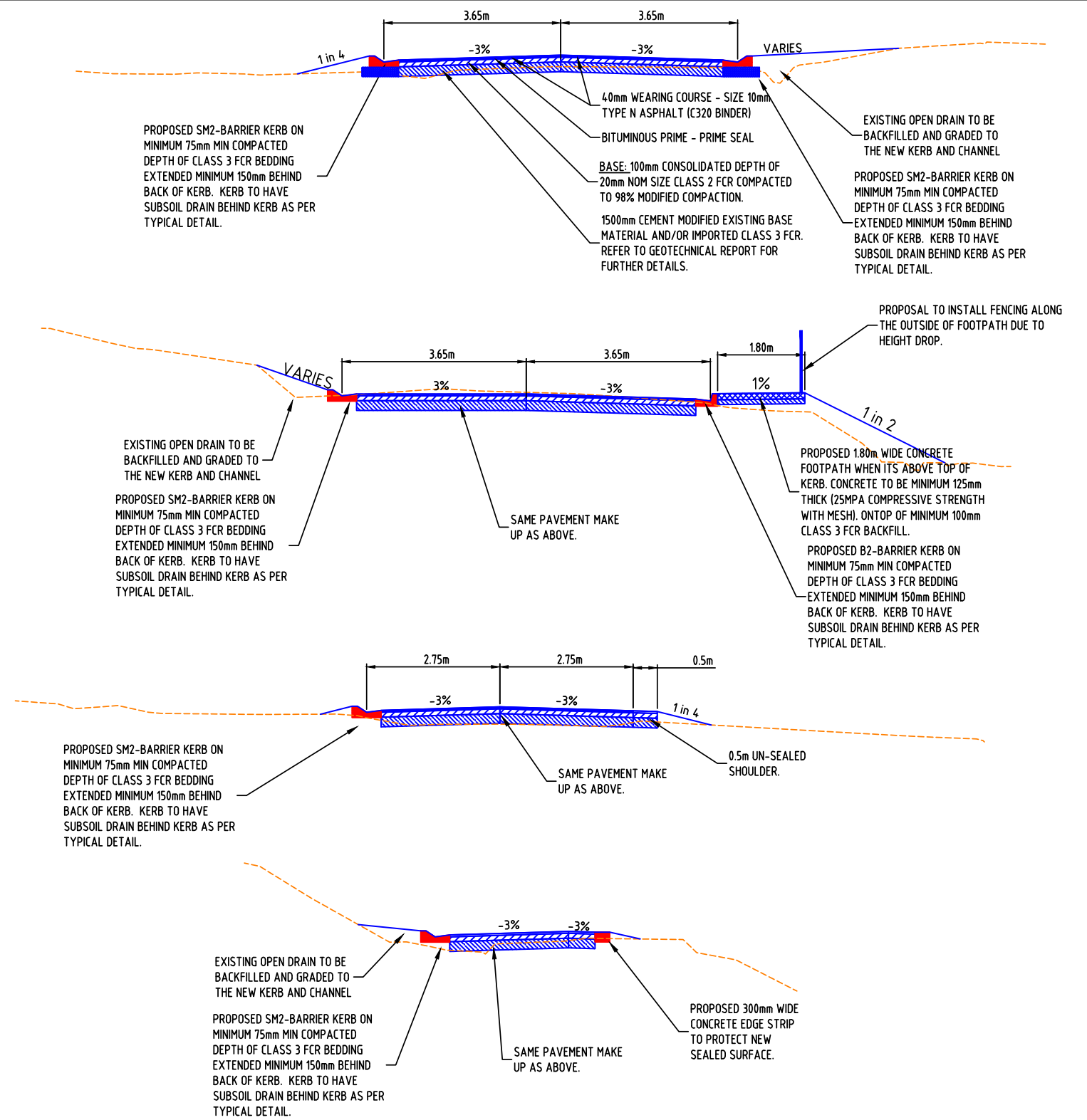
Date: 01.04.2021	Rev: A	Amendments: SUBMITTED FOR COMMENTS	Legend EXISTING KERB AND CHANNEL: EXISTING KERB AND CHANNEL PROPOSED KERB AND CHANNEL: PROPOSED KERB AND CHANNEL EXISTING DRAINS AND PITS: EXISTING DRAINS AND PITS PROPOSED DRAINS AND PITS: PROPOSED DRAINS AND PITS PROPOSED PROPERTY INLET: P.I.	WATER MAINS AND FITTINGS: EX ---W--- PROP ---W--- SEWER: EX ---S--- PROP ---S--- GAS MAINS: EX ---G--- PROP ---G--- TELECOM CABLES AND PITS: EX ---T--- PROP ---T---	THIS DOCUMENT/DRAWING IS PROTECTED BY FEDERAL COPYRIGHT LAW. COPYING IN ANY SHAPE OR FORM, WHOLE OR PART WITHOUT THE WRITTEN AUTHORISATION OF CRAIG CIVIL DESIGN PTY LTD. IS STRICTLY PROHIBITED. CIVIL PROCEEDINGS CLAIMING DAMAGES OR OTHER REMEDIES MAY BE BROUGHT AGAINST PERSONS FOUND COPYING THIS DOCUMENT.	Design: MARCH 2021 Date: MARCH 2021 Checked: MARCH 2021 Date: MARCH 2021 Datum: AHD Scale: AS SHOWN Approved Date: MELWAY Ref:	 Civil Engineering Consultants & Project Managers P.O. Box 1207, Narre Warren 3805 Phone: 5995 4388 Fax: 5995 5330 Email: mail@jarnisoncraig.com.au	CARDINIA SHIRE COUNCIL CAROLINE AVE & BORONIA CRESCENT COCKATOO ROAD RECONSTRUCTION WORKS FACE SHEET AND LOCALITY PLAN	Drawing No. CCD. 20021- 01 Sheet 1 OF 91 Rev A CCD Ref. No. 20021
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GENERAL NOTES:

- ALL WORKS ARE TO BE CARRIED OUT IN ACCORDANCE WITH THE COUNCIL STANDARD DRAWINGS, SPECIFICATIONS AND TO THE SATISFACTION OF SUPERINTENDENT SUPERVISING OFFICER OR HIS/HER APPOINTED REPRESENTATIVE.
- COUNCIL TO BE NOTIFIED SEVEN (7) CLEAR DAYS PRIOR TO COMMENCEMENT OF WORKS.
- ALL LEVELS SHOWN ARE TO A.H.D.
- PRIOR TO COMMENCEMENT OF WORKS ON SITE, THE CONTRACTOR MUST ENSURE THAT ALL MATTERS RELATING TO THE OCCUPATIONAL HEALTH & SAFETY ACT 2004, INCLUDING ALL RELEVANT REGULATIONS, HAVE BEEN ADDRESSED. IN PARTICULAR, PREVENTION OF FALLS AND PLANT. DETAILS OF THE CONTRACTORS SITE MANAGEMENT PLAN INCLUDING OCCUPATIONAL HEALTH AND SAFETY PROCEDURES MUST BE LODGED WITH THE COUNCIL PRIOR TO COMMENCEMENT OF WORKS.
- ON COMMENCEMENT OF CONSTRUCTION WORKS ON SITE, THE CONTRACTOR MUST COMPLY WITH THE RECOMMENDATIONS OF THE ENVIRONMENT PROTECTION AUTHORITY PUBLICATION "CONSTRUCTION TECHNIQUES FOR SEDIMENT POLLUTION CONTROL" (PUBLICATION NO 275) APPROPRIATE SILTATION CONTROL IS TO BE CARRIED OUT DURING THE CONSTRUCTION AND MAINTENANCE PERIOD.
- NO EXCAVATION SHALL BE CARRIED OUT WITHIN THE CANOPY DRIP LINE OR 5.0M, WHICHEVER IS GREATER OF ANY EXISTING TREE UNTIL APPROVAL HAS BEEN GIVEN BY SUPERINTENDENT SUPERVISING OFFICER OR HIS/HER APPOINTED REPRESENTATIVE.
- A TEMPORARY 1.8m CONSTRUCTION HIGH POST & WIRE FENCE SHALL BE ERECTED AND MAINTAINED AROUND EXISTING TREES, NOMINATED TO BE RETAINED AS PER TREE PROTECTION ZONE (TPZ) CONDITION, AT ALL TIMES DURING CONSTRUCTION. UNDER NO CIRCUMSTANCES SHALL SITE SHEDS, VEHICLES, MACHINERY AND EQUIPMENT BE STORED OR PLACED WITHIN FENCED ZONE OF THESE TREES.
- THE CONTRACTOR SHALL TO THE SATISFACTION OF THE CONSULTING ENGINEER AND SUPERINTENDENT REPRESENTATIVE PROVIDE AND MAINTAIN ALL NECESSARY WARNING SIGNAGE, LIGHTING AND BARRICADING TO COMPLY WITH THE REQUIREMENTS OF THE ROAD MANAGEMENT ACT.
- THE LOCATION OF EXISTING SERVICES SHOULD BE DETERMINED BY THE CONTRACTOR PRIOR TO COMMENCING ANY EXCAVATION BY CARRYING OUT A DBYD AND CONTACTING ALL RELEVANT SERVICE AUTHORITIES AND/OR THEIR AGENTS. ANY EXISTING SERVICES SHOWN ON THE DRAWINGS ARE OFFERED AS A GUIDE ONLY AND ARE NOT GUARANTEED AS CORRECT.
- SERVICE TRENCHES WITHIN THE ROAD RESERVE MUST BE BACKFILLED AS SPECIFIED BELOW, TO A DRY DENSITY NOT LESS THAN 97% OF THE MAXIMUM FOUND IN THE STANDARD COMPACTION TEST FOR THE FOLLOWING:
 - SERVICE TRENCHES BENEATH THE ROAD PAVEMENT, FOOTPATH OR DRIVEWAY CROSSOVER, TO THE UNDERSIDE OF THE PAVEMENT OR CROSSOVER BEDDING WITH 20MM CLASS 3 FCR WITH 3% CEMENT ADDITIVE.
 - DRAINAGE PIPES ADJACENT TO KERBING OR CONCRETE STRUCTURES WITH 20MM CLASS 4 FCR TO A LEVEL THAT IS NOT AFFECTED BY A 45 DEGREE ANGLE OF REPOSE FROM THE NEAR LOWER EDGE OF SUCH STRUCTURE, OTHERWISE TO FULL DEPTH.
- ALL EXCAVATIONS OF A DEPTH 1.5M OR GREATER MUST COMPLY WITH WORKCOVER VICTORIA. A "NOTICE OF INTENTION TO EXCAVATE..." FORM MUST BE SUBMITTED TO WORKCOVER 3 DAYS PRIOR TO THE WORK EXCAVATIONS.
 - CALL 1800 136 089 TOLL FREE OR 03 9641 1444 TO OBTAIN FORM.
 - FAX FORMS TO: 03 9565 9400 OR 9941 0555.
- ALL CONCRETE TO BE USED IN THE CONTRACT WORKS SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 25 MPA AT 28 DAYS.
- ALL DRAINAGE PIPES ARE TO BE REINFORCED CONCRETE CLASS 2 RUBBER RING JOINTED AS A MINIMUM UNLESS OTHERWISE APPROVED. ALL PVC PIPES TO BE CLASS SH UNLESS OTHERWISE APPROVED.
- 90mm DIA. AGRICULTURAL PIPE DRAINS TO BE PLACED BEHIND ALL KERB AND CHANNEL ON 20MM AGGREGATE BEDDING, 200MM BELOW SUBGRADE, AT GRADE AND WHERE DIRECTED BY THE CONSULTING ENGINEER.
- MINIMUM COVER TO OVERT OF DRAINAGE PIPES SHALL BE 300MM IN EASEMENTS AND 500MM IN ROAD RESERVES, EXCEPT WHERE PIPE CLASS '4' WILL BE INSTALLED.
- FILL AREAS ARE TO BE STRIPPED OF TOPSOIL, FILLED USING APPROVED CLAY FILL AND THEN TOPSOIL REPLACED TO OBTAIN FINAL FILL LEVELS AS SHOWN ON PLANS. ALL FILLING TO BE CARRIED OUT IN 150MM LAYERS AND COMPACTED TO 95% OF MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS 3798-2007. GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS. ON COMPLETION AND AT THE DIRECTION OF COUNCIL OFFICER THE CONTRACTOR SHALL PRESENT A "LEVEL 1" TYPED REPORT NOMINATING THE EXTENT OF FILL PLACED, ITS CONFORMANCE WITH THE SPECIFICATION AND ITS CLASSIFICATION AS "CONTROLLED FILL". IF ANY SUBSTANDARD FILLING IS ENCOUNTERED ON THE SITE IT MUST BE REMOVED AND REPLACED WITH APPROVED FILL MATERIAL PROPERLY COMPACTED TO COUNCIL REQUIREMENTS. A GEO-TECHNICAL REPORT MUST BE SUBMITTED SHOWING DETAILS OF DEPTH, TYPE OF MATERIAL AND DENSITY OF THE FILL AREAS CONCERNED.
- 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 (SEPT '95) AND SUBSEQUENT REVISIONS. THE CONTRACTOR SHALL PROVIDE VERIFICATION INCLUDING TEST CERTIFICATES TO THE SUPERVISING ENGINEER.
- BATTERS SHALL BE 1 IN 6 MINIMUM UNLESS OTHERWISE APPROVED AND COVERED AND SMOOTHED WITH MINIMUM OF 100MM TOPSOIL.
- ROAD PAVEMENTS ARE TO HAVE A MINIMUM DEPTH OF 300MM INCLUDING SURFACING.
- OPEN SPACE RESERVES:
 - RESERVES TO BE EVENLY GRADED, SEEDED AND FREE DRAINING TO THE SATISFACTION OF RESPONSIBLE AUTHORITY.
 - DESIGN INFORMATION TO INCLUDE RETICULATED WATER SUPPLY IN U/G PIT CONFIGURATION, BOLLARDS, SEATING, PLAYGROUND EQUIPMENT AND BBQ'S ETC. WHERE REQUIRED BY THE PERMIT.
- ALL NATURE STRIPS, EXCAVATED OR FILLED AREAS WITHIN THE ROAD RESERVE SHALL BE RESURFACED WITH A 100MM LAYER OF TOPSOIL AS SPECIFIED, FREE FROM CLAY AND STONE, EVENLY GRADED AND SEEDED TO THE SATISFACTION OF RESPONSIBLE AUTHORITY.
- ON COMPLETION THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL OF ALL BUILDING WASTE, RUBBISH AND SPOIL FROM THE SITE. NO SURPLUS TREES, VEGETATION OR OTHER MATERIALS IS TO BE BURNT ON SITE.
- AS-CONSTRUCTED DATA INCLUDING ALTERATIONS DURING CONSTRUCTION ARE TO BE PROVIDED PRIOR TO ISSUE OF STATEMENT OF COMPLIANCE:
 - DRAWINGS ARE TO BE IN A1 AND A3 HARD COPY AND IN AUTOCAD (2010) AND ACROBAT PDF FORMATS.

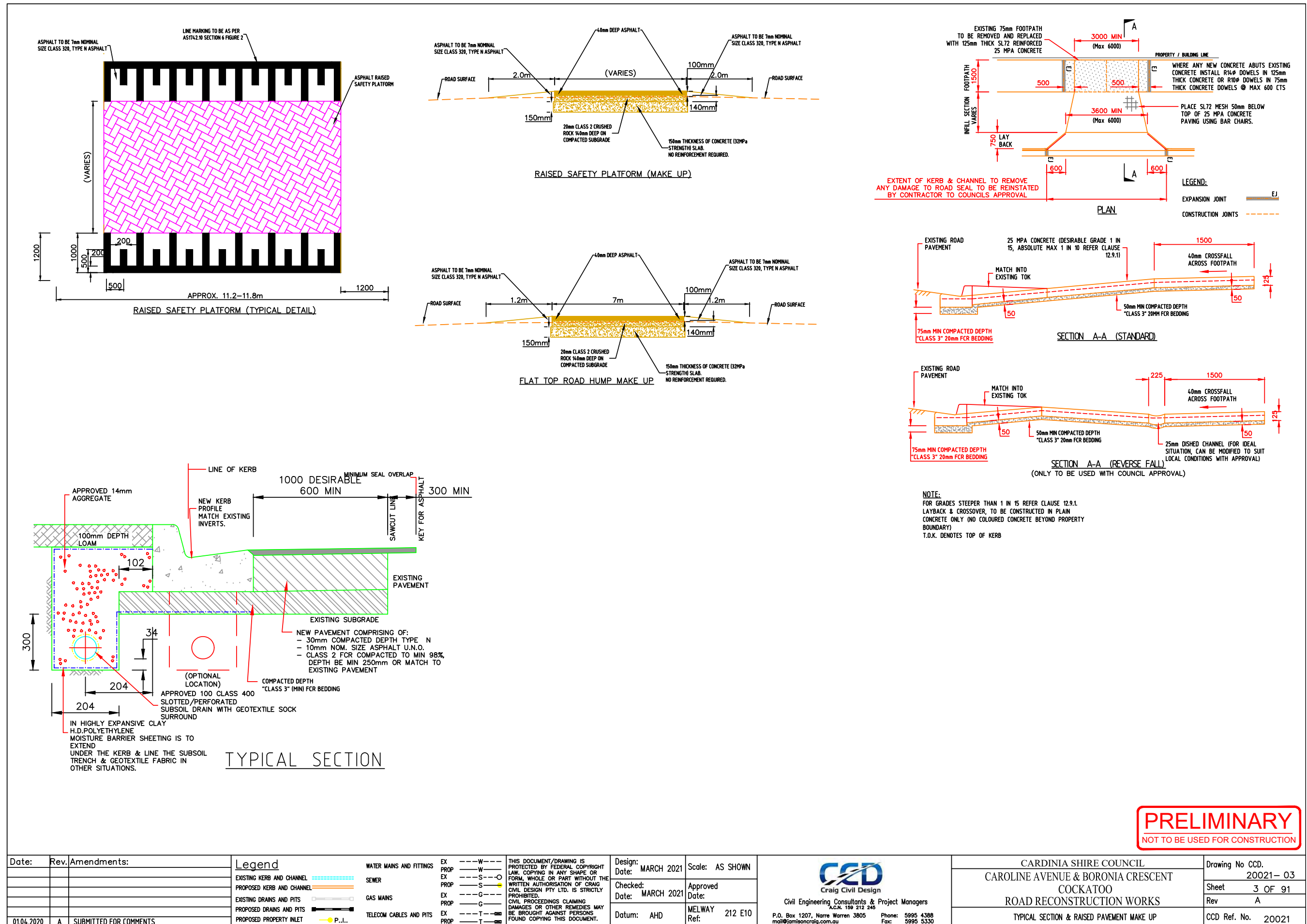
SUPERINTENDENT HOLD POINTS

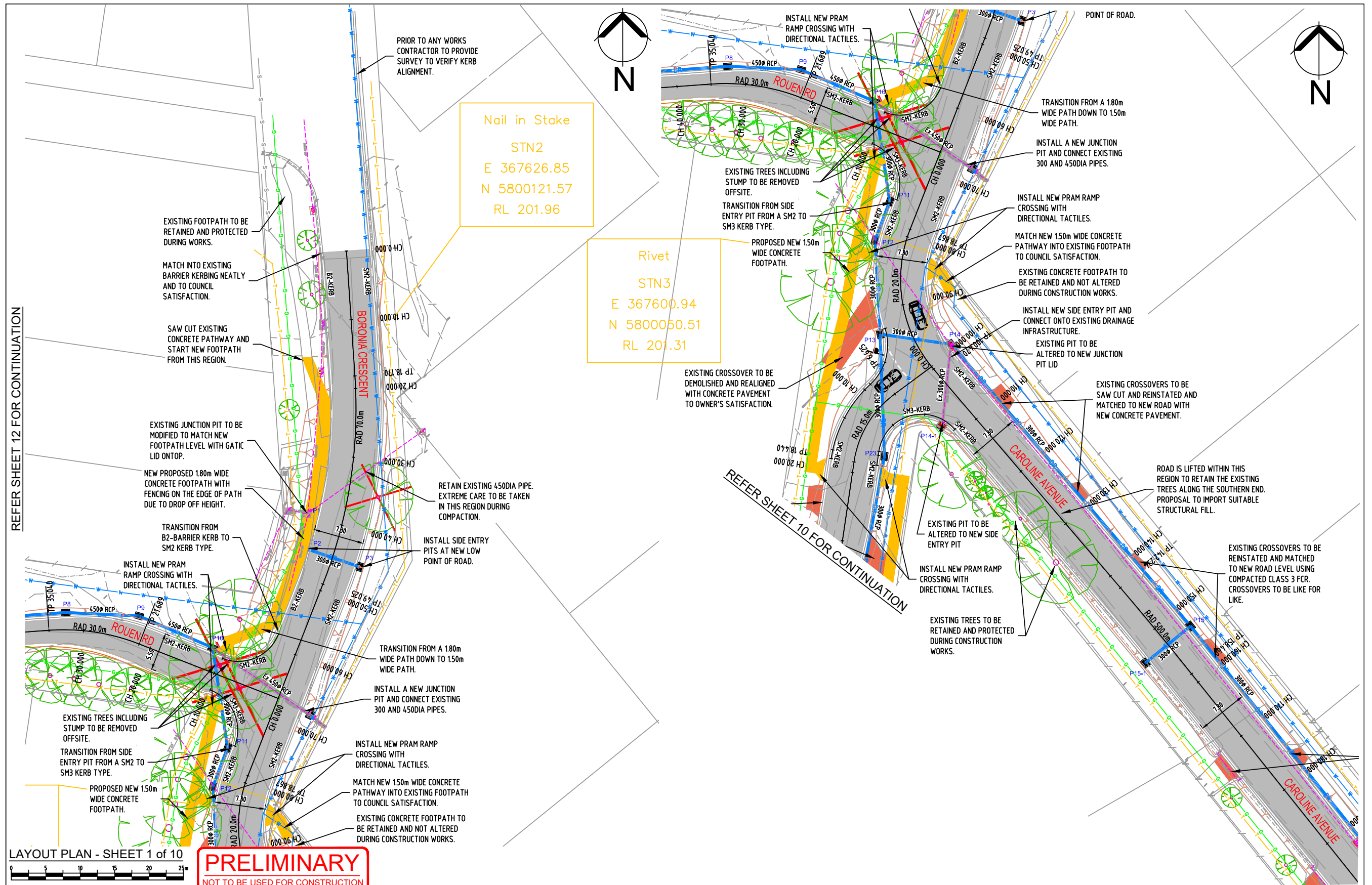
- THE FOLLOWING HOLD POINT INSPECTIONS SHALL APPLY UNTIL WORKS ARE APPROVED BY SUPERINTENDENT CONSULTING ENGINEER/S TO BE PRESENT AT THESE HOLD POINTS:
 - PRE-COMMENCEMENT OF WORKS SITE MEETING.
 - SUBGRADE PROOF-ROLL PRIOR TO PLACEMENT OF SUB-BASE.
 - SUB-BASE PROOF-ROLL PRIOR TO PLACEMENT OF BASE COURSE AND TEST RESULTS.
 - BASE COURSE PROOF-ROLL PRIOR TO SEALING AND TEST RESULTS.
 - PRIOR TO TRENCH BACKFILLING:
 - STORM WATER DRAINAGE, INCLUDING SUBSOIL AG DRAINS, AND
 - PROPERTY CONNECTIONS.
 - FOOTPATH, DRIVEWAY AND KERB AND CHANNEL PRIOR TO PLACEMENT OF CONCRETE.
 - INSPECTION AT PRACTICAL COMPLETION OF THE WORKS (COMMENCEMENT OF DEFECTS LIABILITY PERIOD).
 - 2ND INSPECTION AT THE END OF 12 MONTHS (END OF DEFECTS LIABILITY PERIOD).



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01.04.2021	A	SUBMITTED FOR COMMENTS	EXISTING KERB AND CHANNEL	EX ---S---O	PROF ---S---O	Checked:		Approved:	Date:			20021 02	
			PROPOSED KERB AND CHANNEL	EX ---G---	PROF ---G---	Date:		MELWAY	Rev			02 OF 91	
			EXISTING DRAINS AND PITS	EX ---T---	PROF ---T---	Datum:		Ref:	CCD Ref. No.			20021	





LAYOUT PLAN - SHEET 1 of 10
SCALE 1:500

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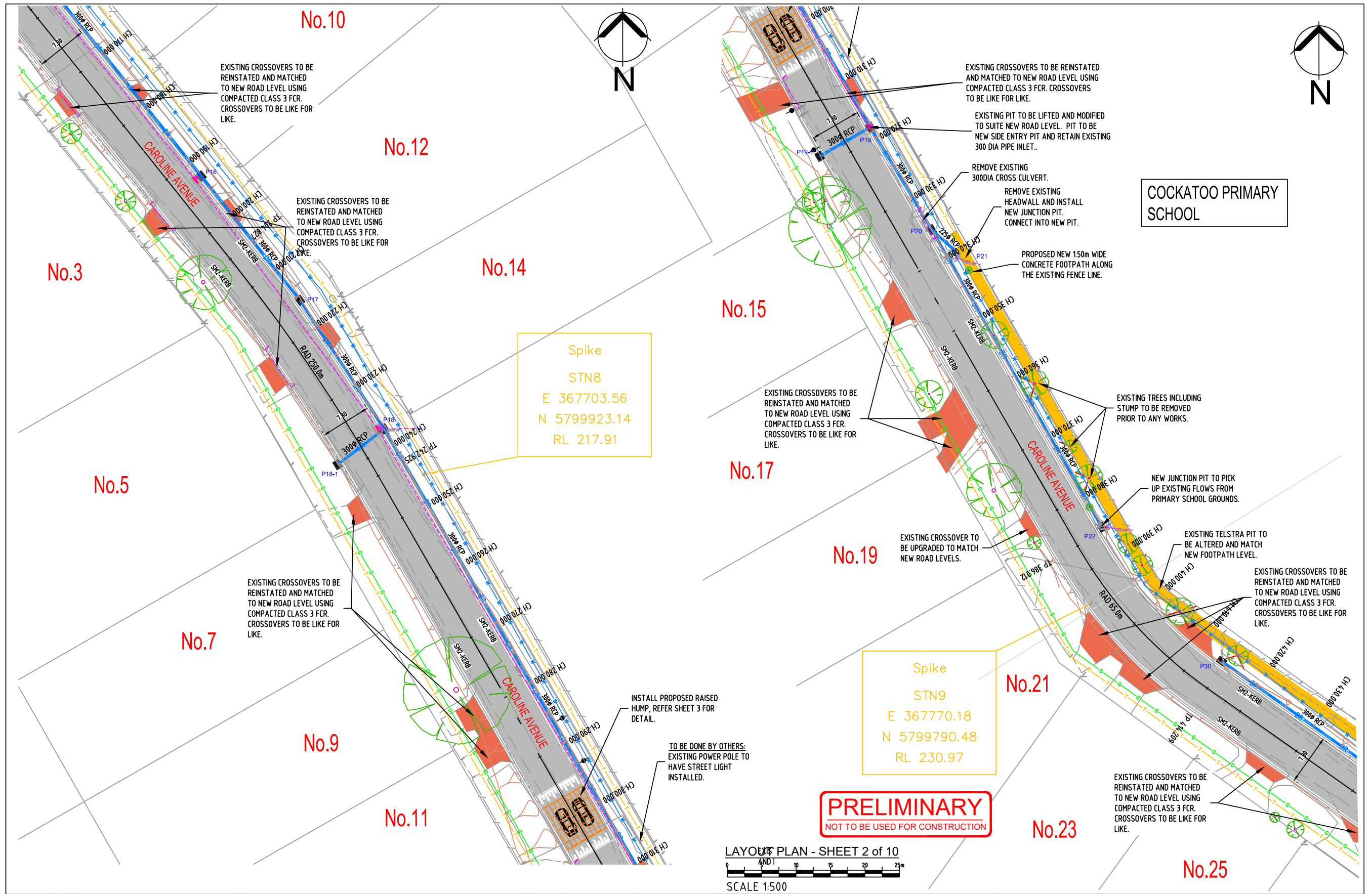
Date:	Rev.	Amendments:
01.04.2021	A	SUBMITTED FOR COMMENTS

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PROPOSED KERB AND CHANNEL	---
EXISTING DRAINS AND PITS	---
PROPOSED DRAINS AND PITS	---
PROPOSED PROPERTY INLET	---
WATER MAINS AND FITTINGS	---
SEWER	---
GAS MAINS	---
TELECOM CABLES AND PITS	---

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CARDINIA SHIRE COUNCIL	Drawing No. CCD.
CAROLINE AVENUE & BORONIA CRESCENT	20021 04
COCKATOO	Sheet
ROAD RECONSTRUCTION WORKS	4 OF 91
LAYOUT PLAN - CAROLINE AVENUE	Rev
	A
	CCD Ref. No. 20021



Date:	Rev.	Amendments:
01.04.2021	A	SUBMITTED FOR COMMENTS

Legend	
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PROPOSED KERB AND CHANNEL	---
EXISTING DRAINS AND PITS	---
PROPOSED DRAINS AND PITS	---
PROPOSED PROPERTY INLET	---
WATER MAINS AND FITTINGS	EX --- W ---
SEWER	EX --- S ---
GAS MAINS	EX --- G ---
TELECOM CABLES AND PITS	EX --- T ---
	PROP --- W ---
	PROP --- S ---
	PROP --- G ---
	PROP --- T ---

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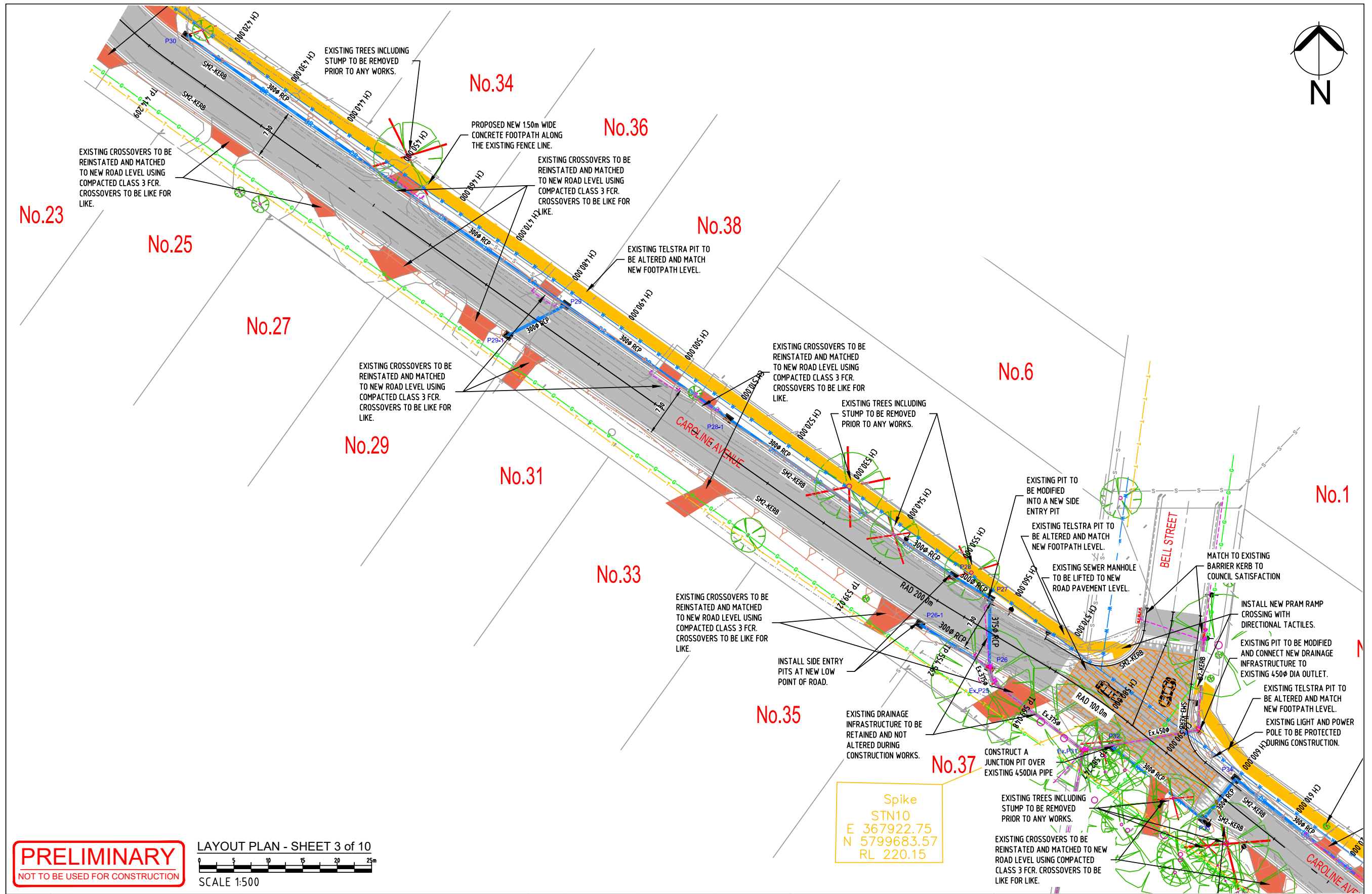
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 COCKATOO
 ROAD RECONSTRUCTION WORKS
 LAYOUT PLAN - CAROLINE AVENUE

Drawing No. CCD.
 20021 05
 Sheet 5 OF 91
 Rev A
 CCD Ref. No. 20021



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LAYOUT PLAN - SHEET 3 of 10
SCALE 1:500

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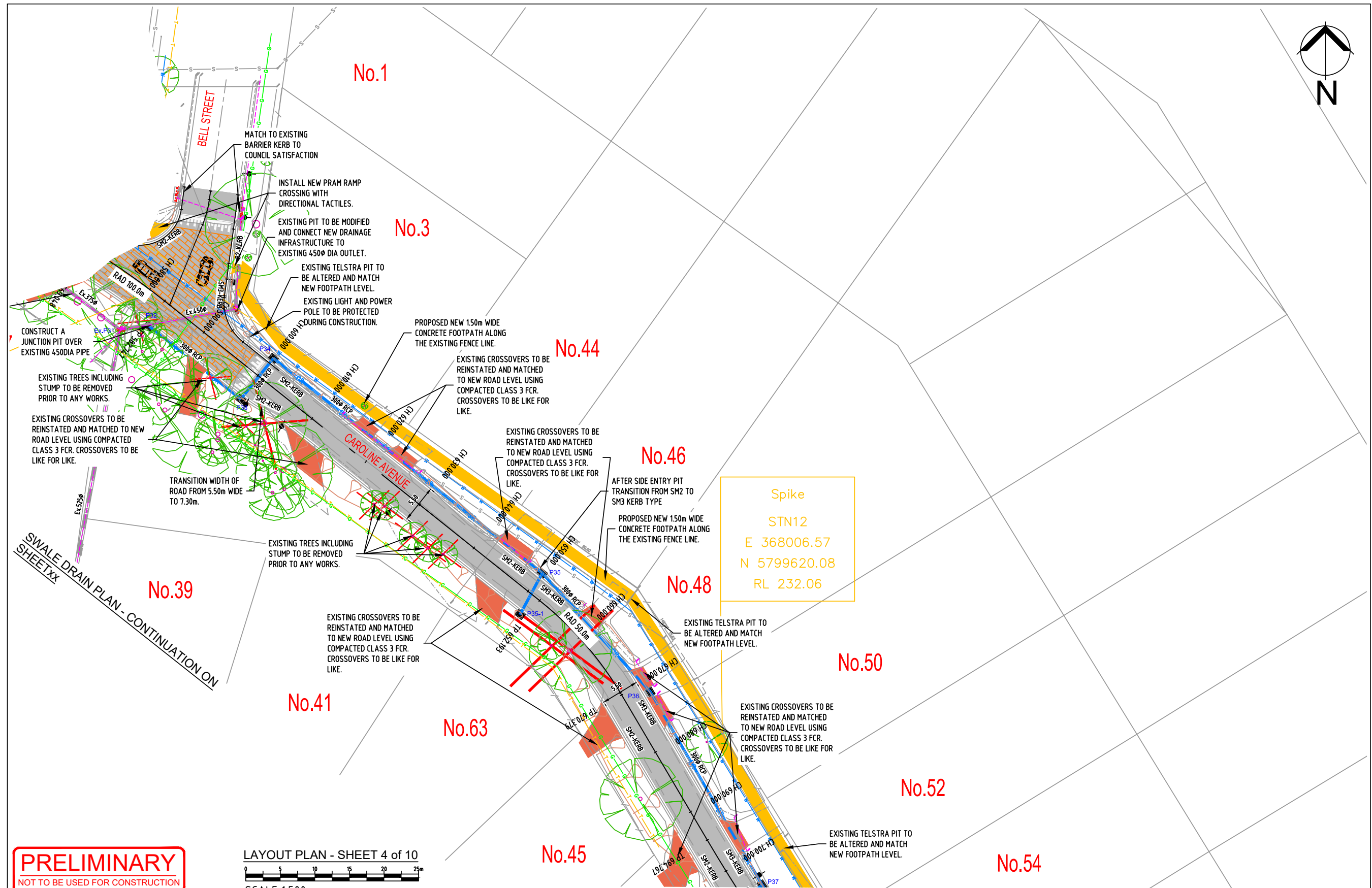
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PROPOSED PROPERTY INLET	---
WATER MAINS AND FITTINGS	EX --- W ---
SEWER	EX --- S ---
GAS MAINS	EX --- G ---
TELECOM CABLES AND PITS	EX --- T ---
	PROP --- W ---
	PROP --- S ---
	PROP --- G ---
	PROP --- T ---

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Checked:	Date:	Approved:
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Datum:	AHD	MELWAY
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COCKATOO
ROAD RECONSTRUCTION WORKS
LAYOUT PLAN - CAROLINE AVENUE

Drawing No	CCD. 20021_06
Sheet	6 OF 91
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LAYOUT PLAN - SHEET 4 of 10
SCALE 1:500

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PROPOSED DRAINS AND PITS	---
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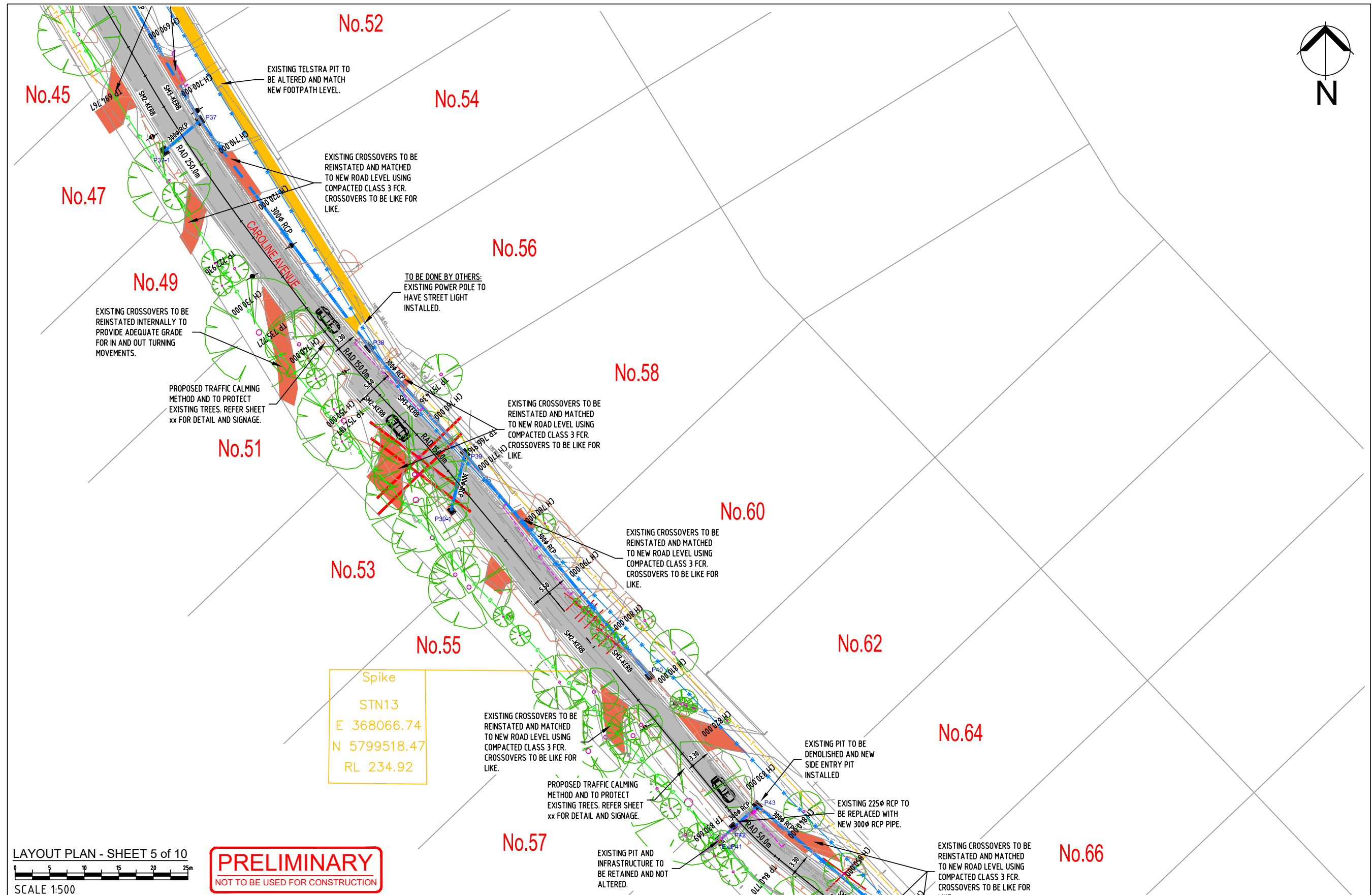
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CARDINIA SHIRE COUNCIL CAROLINE AVENUE & BORONIA CRESCENT COCKATOO ROAD RECONSTRUCTION WORKS LAYOUT PLAN - CAROLINE AVENUE	Drawing No. CCD. 20021_07 Sheet 7 OF 91 Rev A CCD Ref. No. 20021
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Spike
STN13
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LAYOUT PLAN - SHEET 5 of 10
SCALE 1:500

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PROPOSED DRAINS AND PITS	---
PROPOSED PROPERTY INLET	---
WATER MAINS AND FITTINGS	EX --- W ---
SEWER	EX --- S ---
GAS MAINS	EX --- G ---
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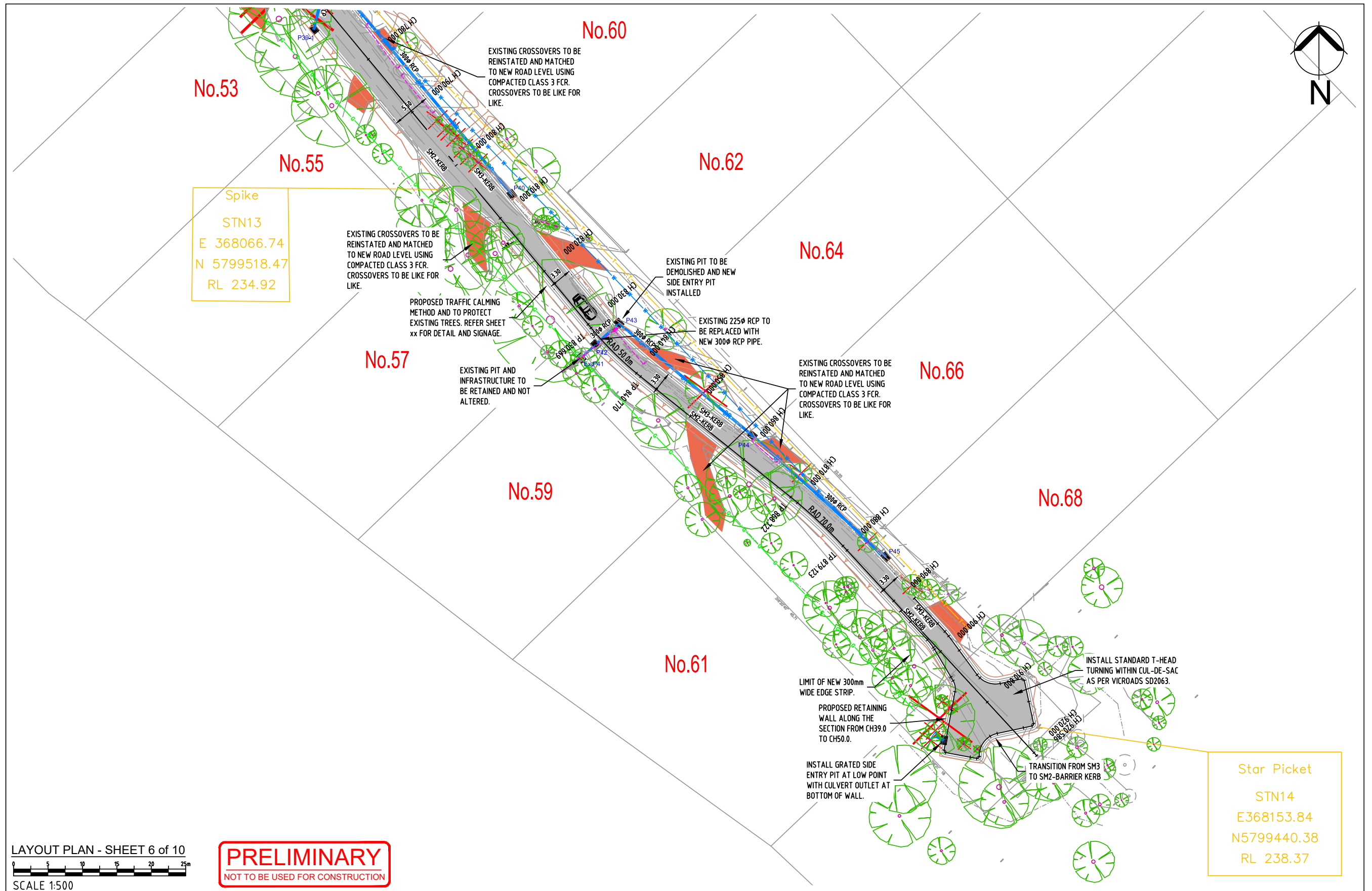
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CAROLINE AVENUE & BORONIA CRESCENT
COCKATOO
ROAD RECONSTRUCTION WORKS
LAYOUT PLAN - CAROLINE AVENUE

Drawing No. CCD. 20021_08
Sheet 8 OF 91
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LAYOUT PLAN - SHEET 6 of 10
SCALE 1:500

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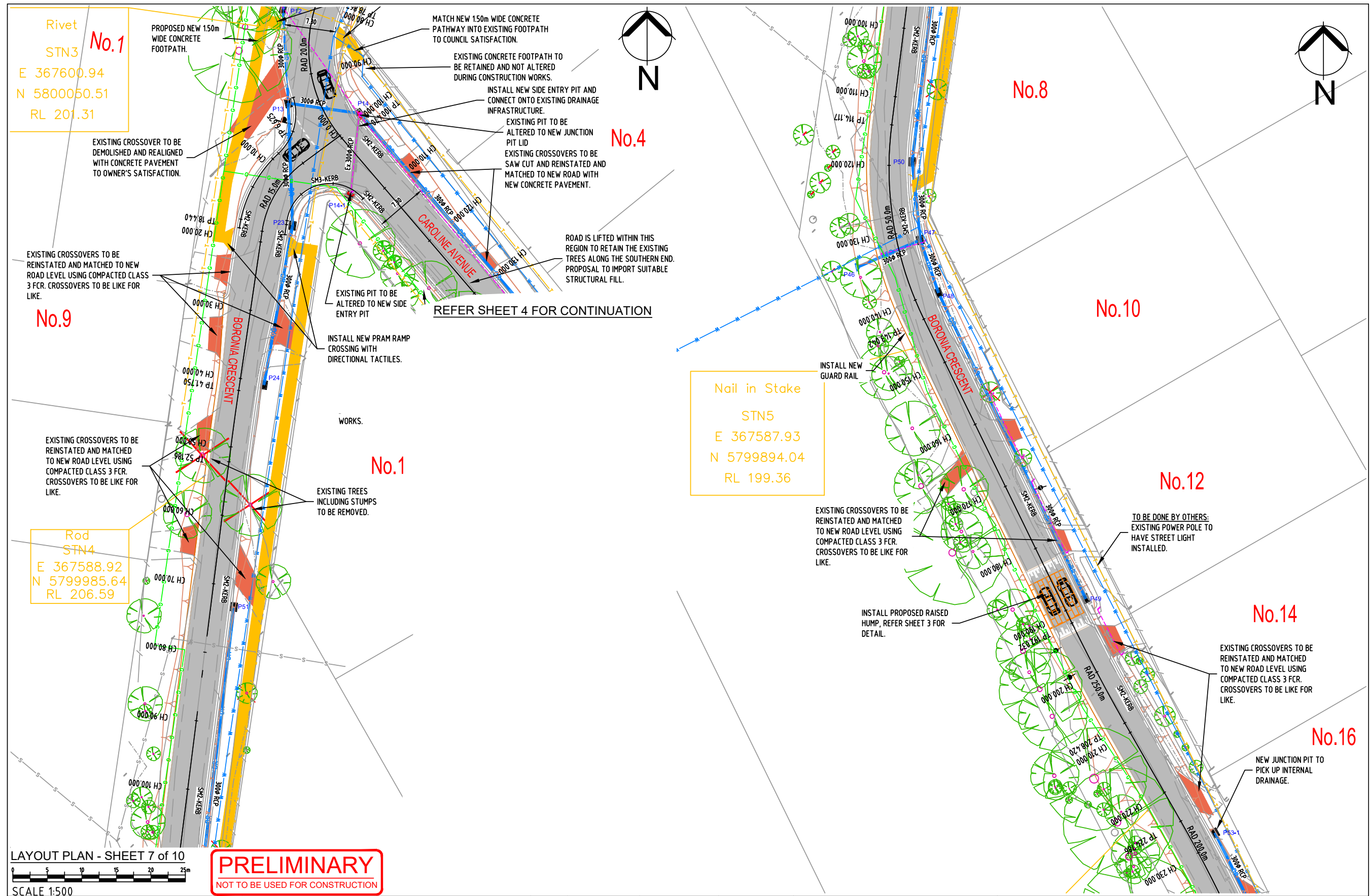
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SEWER	---
GAS MAINS	---
TELECOM CABLES AND PITS	---

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CAROLINE AVENUE & BORONIA CRESCENT
COCKATOO
ROAD RECONSTRUCTION WORKS
LAYOUT PLAN - CAROLINE AVENUE

Drawing No.	CCD. 20021 09
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LAYOUT PLAN - SHEET 7 of 10
SCALE 1:500

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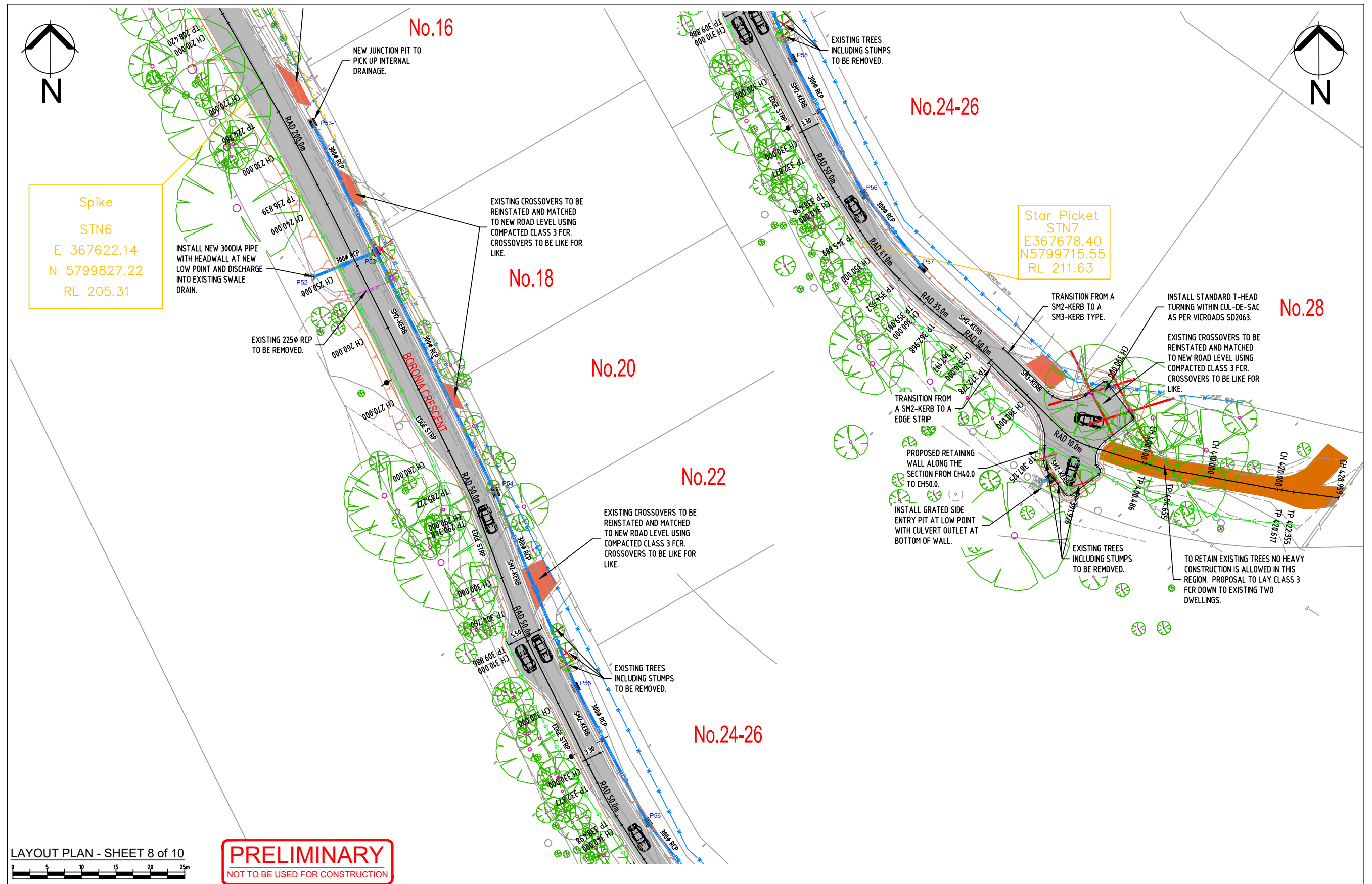
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WATER MAINS AND FITTINGS	EX --- W ---
SEWER	EX --- S ---
GAS MAINS	EX --- G ---
TELECOM CABLES AND PITS	EX --- T ---

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CAROLINE AVENUE & BORONIA CRESCENT
COCKATOO
ROAD RECONSTRUCTION WORKS
LAYOUT PLAN - BORONIA CRESCENT

Drawing No.	CCD. 20021 10
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LAYOUT PLAN - SHEET 8 of 10
SCALE 1:500

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PROPOSED DRAINS AND PITS	---
PROPOSED PROPERTY INLET	---
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SEWER	EX --- S ---
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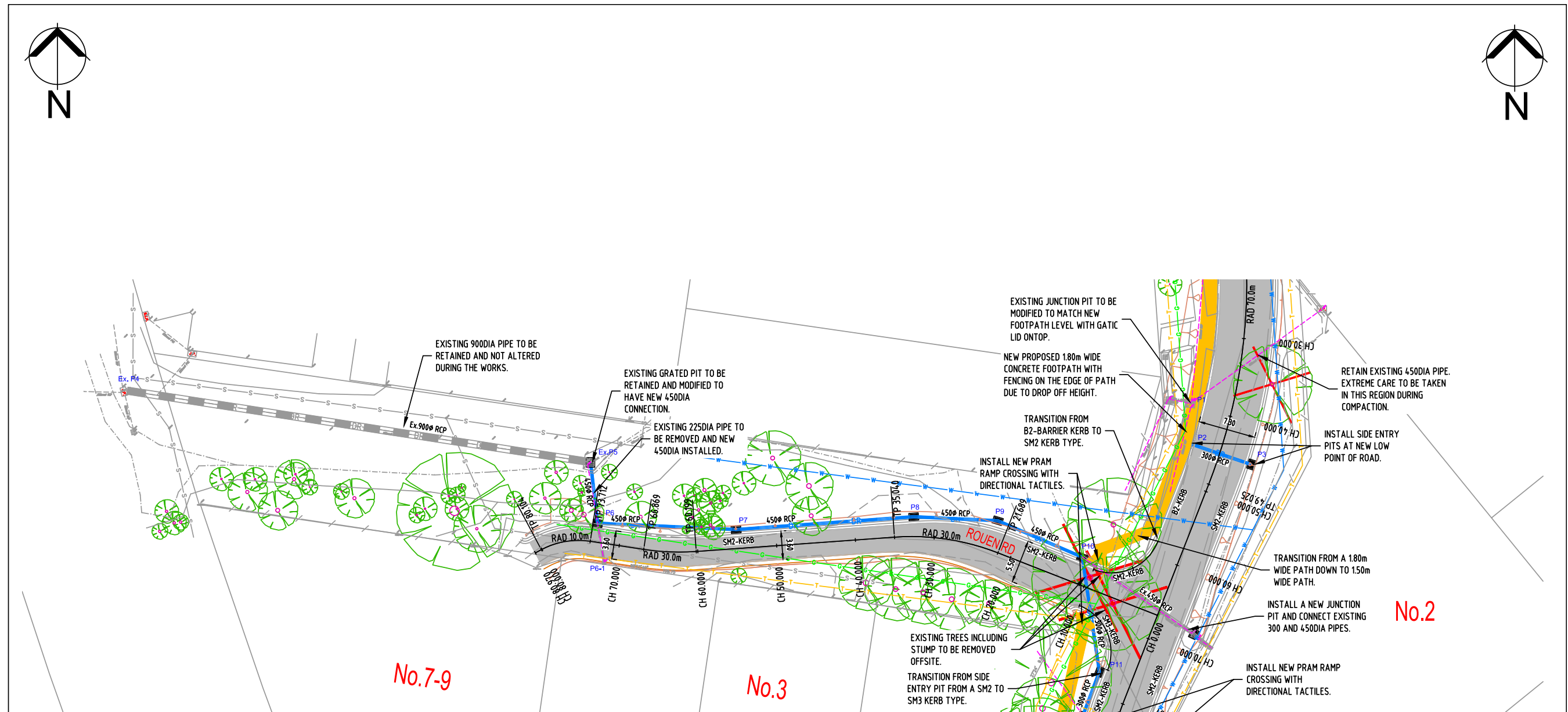
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CAROLINE AVENUE & BORONIA CRESCENT
COCKATOO
ROAD RECONSTRUCTION WORKS
LAYOUT PLAN - BORONIA CRESCENT

Drawing No	CCD. 20021 11
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CCD Ref. No.	20021



LAYOUT PLAN - SHEET 9 of 10



SCALE 1:500

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Legend

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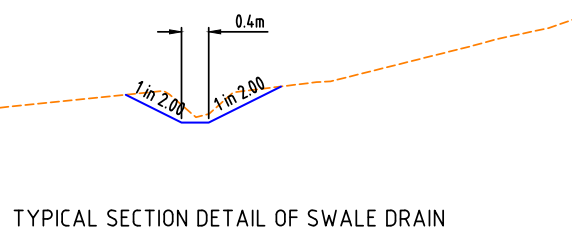
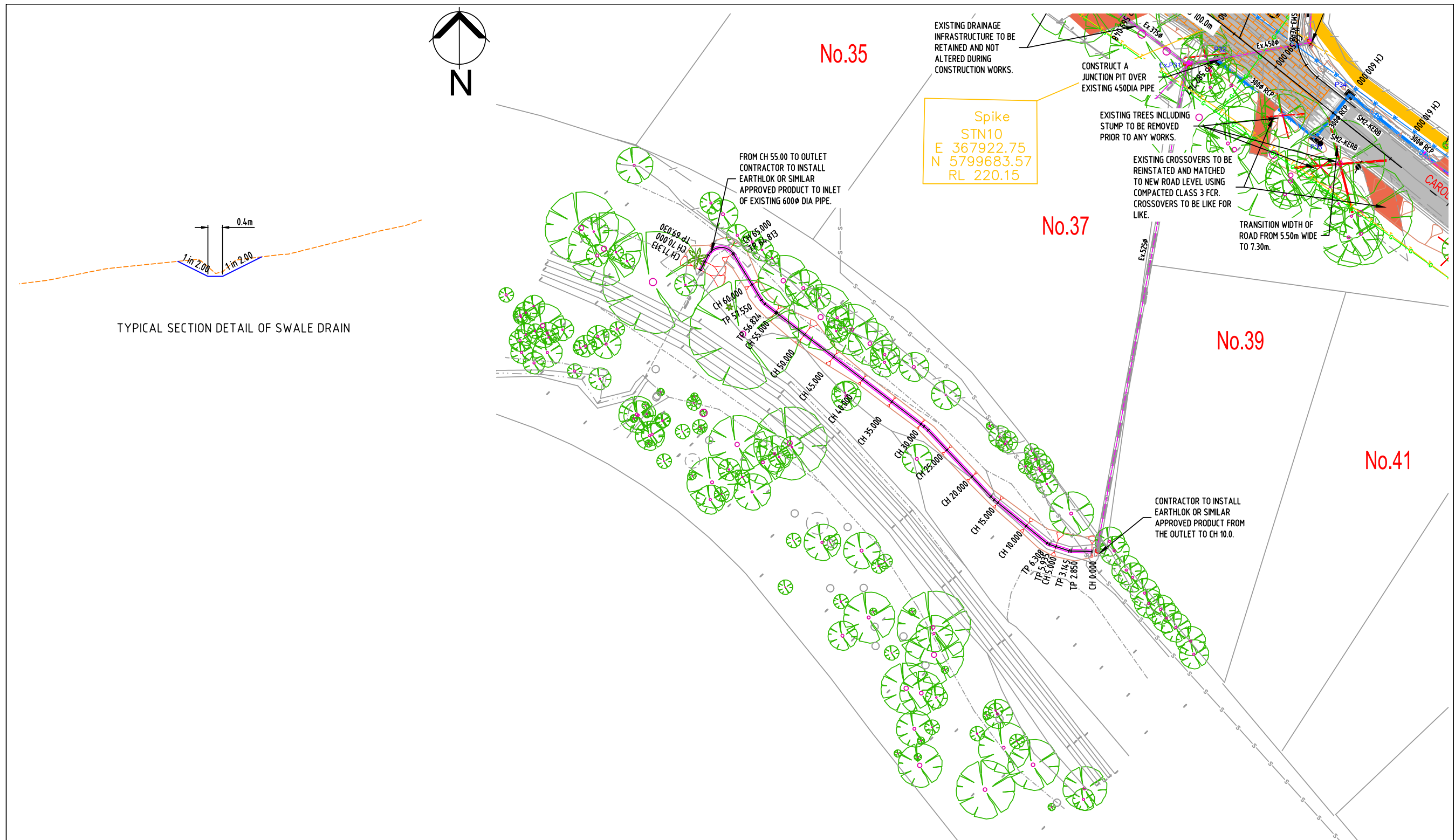
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COCKATOO
ROAD RECONSTRUCTION WORKS
LAYOUT PLAN - ROUEN ROAD

Drawing No	CCD. 20021 12
Sheet	12 OF 91
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LAYOUT PLAN - SHEET 10 of 10



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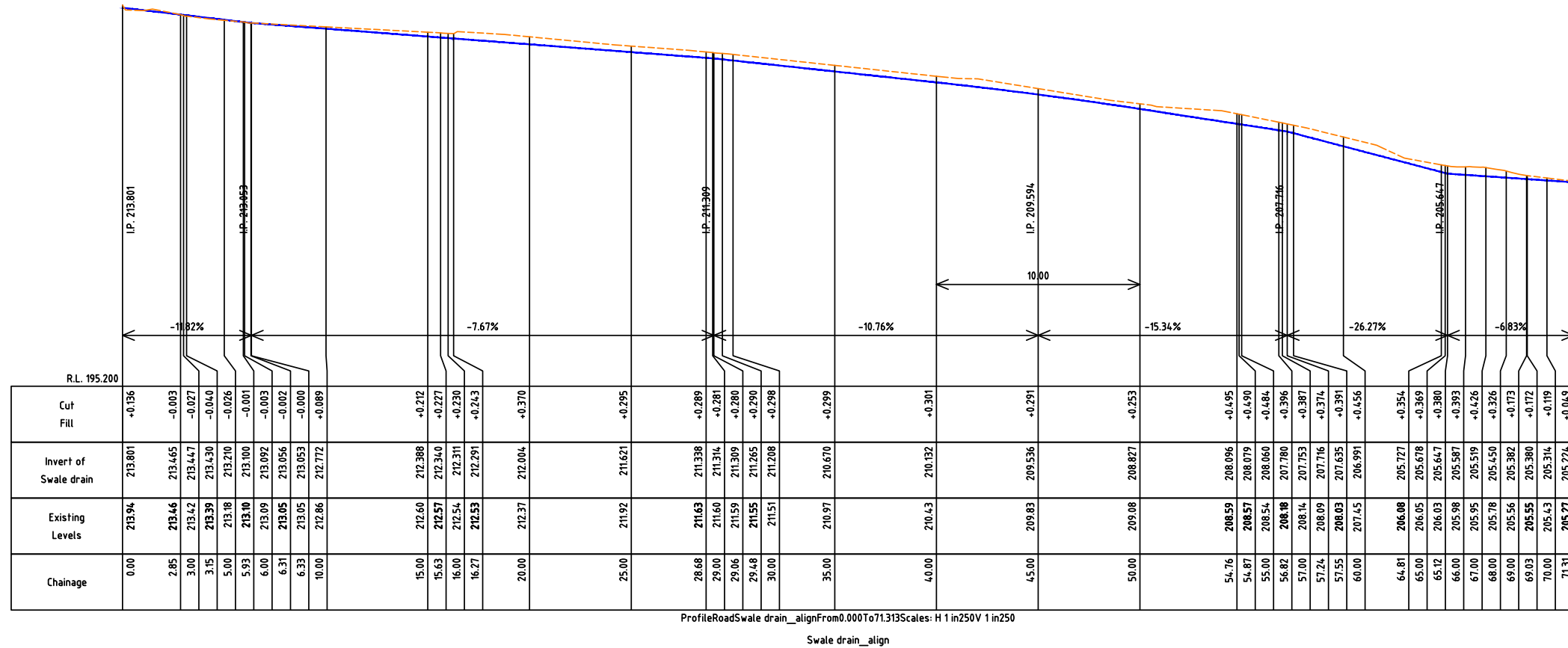
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CAROLINE AVENUE & BORONIA CRESCENT
COCKATOO
ROAD RECONSTRUCTION WORKS
LAYOUT PLAN - CAROLINE AVE SWALE DRAIN

Drawing No	CCD. 20021 13
Sheet	13 OF 91
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LONGITUDINAL PLAN - SWALE DRAIN



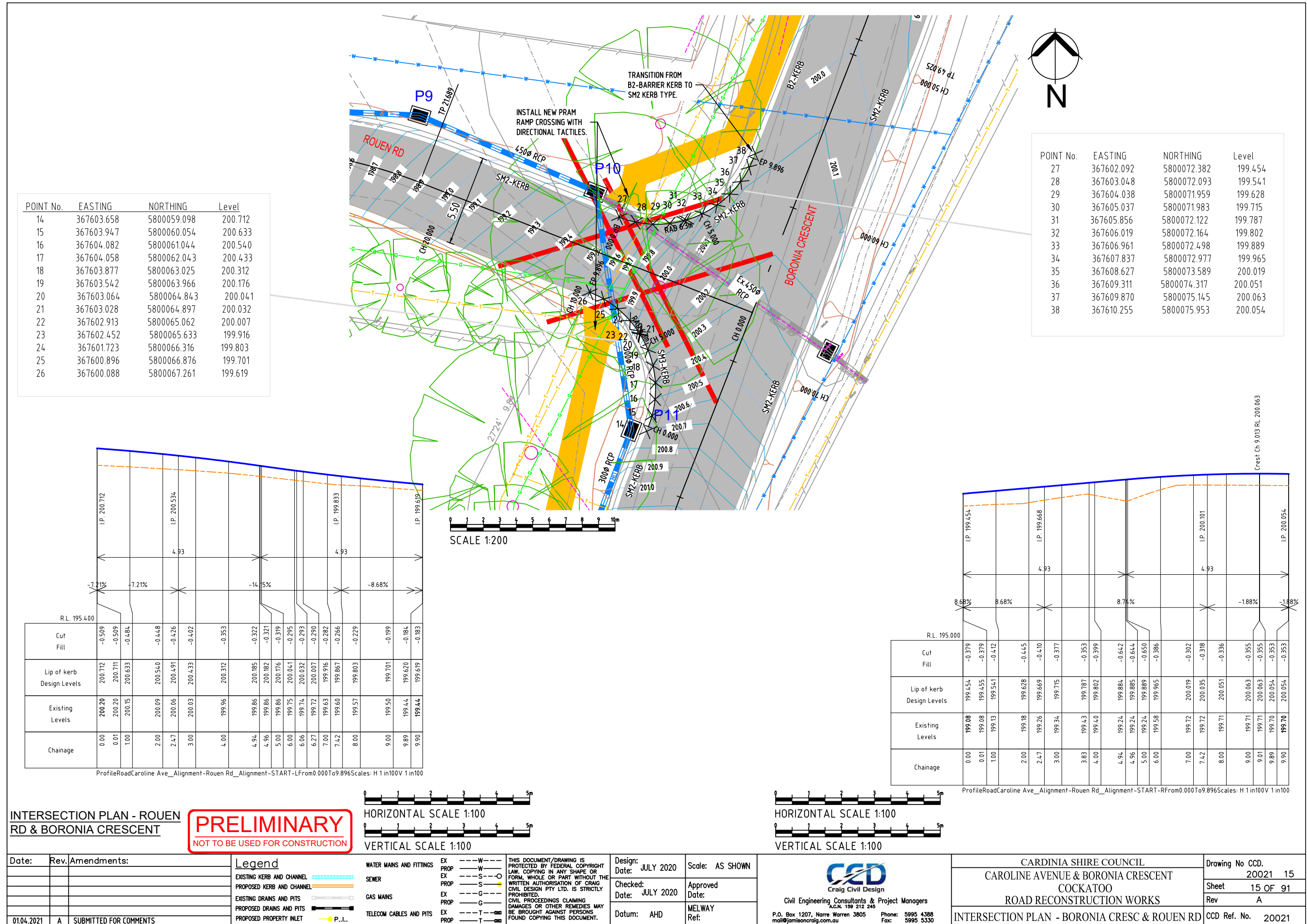
HORIZONTAL SCALE 1:250



VERTICAL SCALE 1:250

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INTERSECTION PLAN - ROUEN RD & BORONIA CRESCENT

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HORIZONTAL SCALE 1:100
VERTICAL SCALE 1:100

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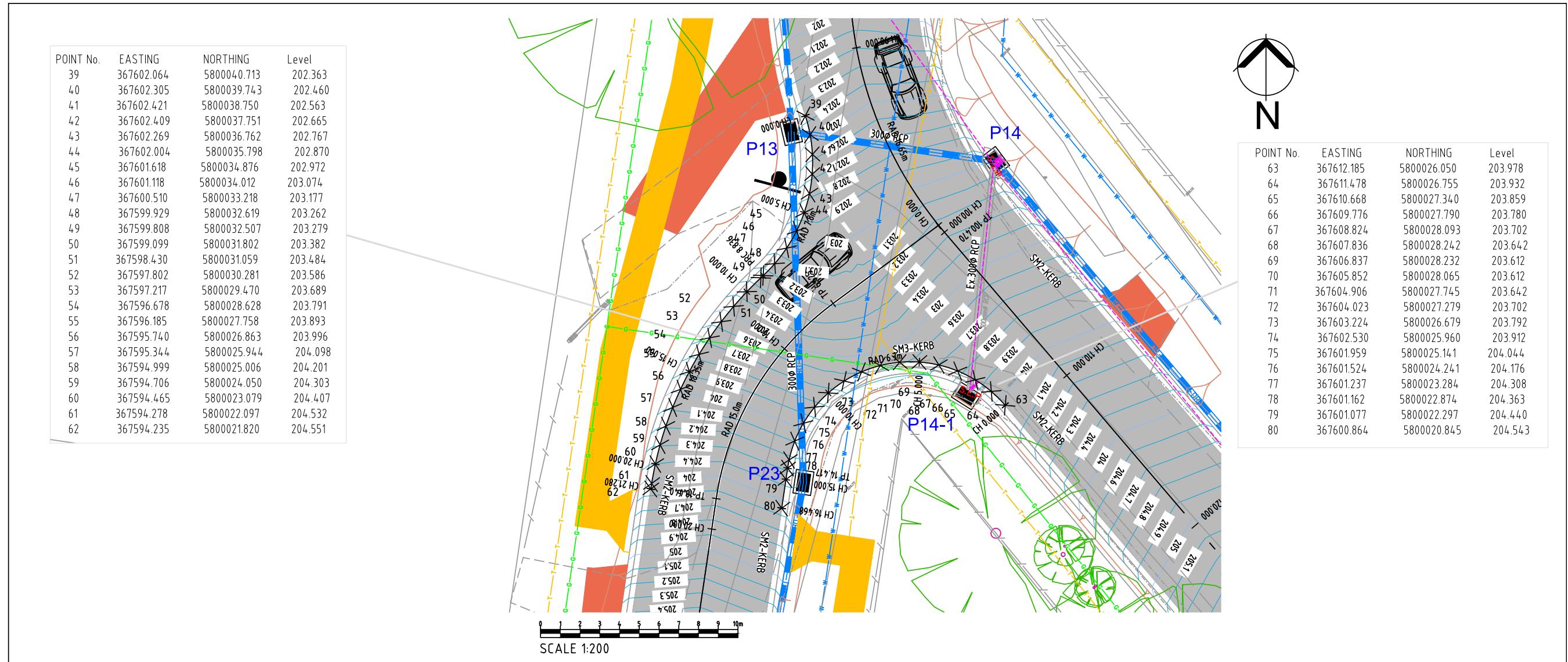
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PROPOSED KERB AND CHANNEL	---	SEWER	EX --- S ---	
EXISTING DRAINS AND PITS	---	GAS MAINS	EX --- G ---	
PROPOSED DRAINS AND PITS	---	TELECOM CABLES AND PITS	EX --- T ---	
PROPOSED PROPERTY INLET	---		PROP --- T ---	CIVIL PROCEEDINGS CLAIMING DAMAGES OR OTHER REMEDIES MAY BE BROUGHT AGAINST PERSONS FOUND COPYING THIS DOCUMENT.

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CARDINIA SHIRE COUNCIL		Drawing No	CCD. 20021 15
CAROLINE AVENUE & BORONIA CRESCENT		Sheet	15 OF 91
COCKATOO		Rev	A
ROAD RECONSTRUCTION WORKS		CCD Ref. No.	20021



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46	367601.118	5800034.012	203.074
47	367600.510	5800033.218	203.177
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50	367599.099	5800031.802	203.382
51	367598.430	5800031.059	203.484
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56	367595.740	5800026.863	203.996
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58	367594.999	5800025.006	204.201
59	367594.706	5800024.050	204.303
60	367594.465	5800023.079	204.407
61	367594.278	5800022.097	204.532
62	367594.235	5800021.820	204.551

POINT No.	EASTING	NORTHING	Level
63	367612.185	5800026.050	203.978
64	367611.478	5800026.755	203.932
65	367610.668	5800027.340	203.859
66	367609.776	5800027.790	203.780
67	367608.824	5800028.093	203.702
68	367607.836	5800028.242	203.642
69	367606.837	5800028.232	203.612
70	367605.852	5800028.065	203.612
71	367604.906	5800027.745	203.642
72	367604.023	5800027.279	203.702
73	367603.224	5800026.679	203.792
74	367602.530	5800025.960	203.912
75	367601.959	5800025.141	204.044
76	367601.524	5800024.241	204.176
77	367601.237	5800023.284	204.308
78	367601.162	5800022.874	204.363
79	367601.077	5800022.297	204.440
80	367600.864	5800020.845	204.543

INTERSECTION PLAN -
CAROLINE AVENUE & BORONIA
CRESCENT

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Date:	Rev.	Amendments:
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Legend	
EXISTING KERB AND CHANNEL	---
PROPOSED KERB AND CHANNEL	---
EXISTING DRAINS AND PITS	---
PROPOSED DRAINS AND PITS	---
PROPOSED PROPERTY INLET	---
WATER MAINS AND FITTINGS	EX --- W ---
SEWER	EX --- S ---
GAS MAINS	EX --- G ---
TELECOM CABLES AND PITS	EX --- T ---

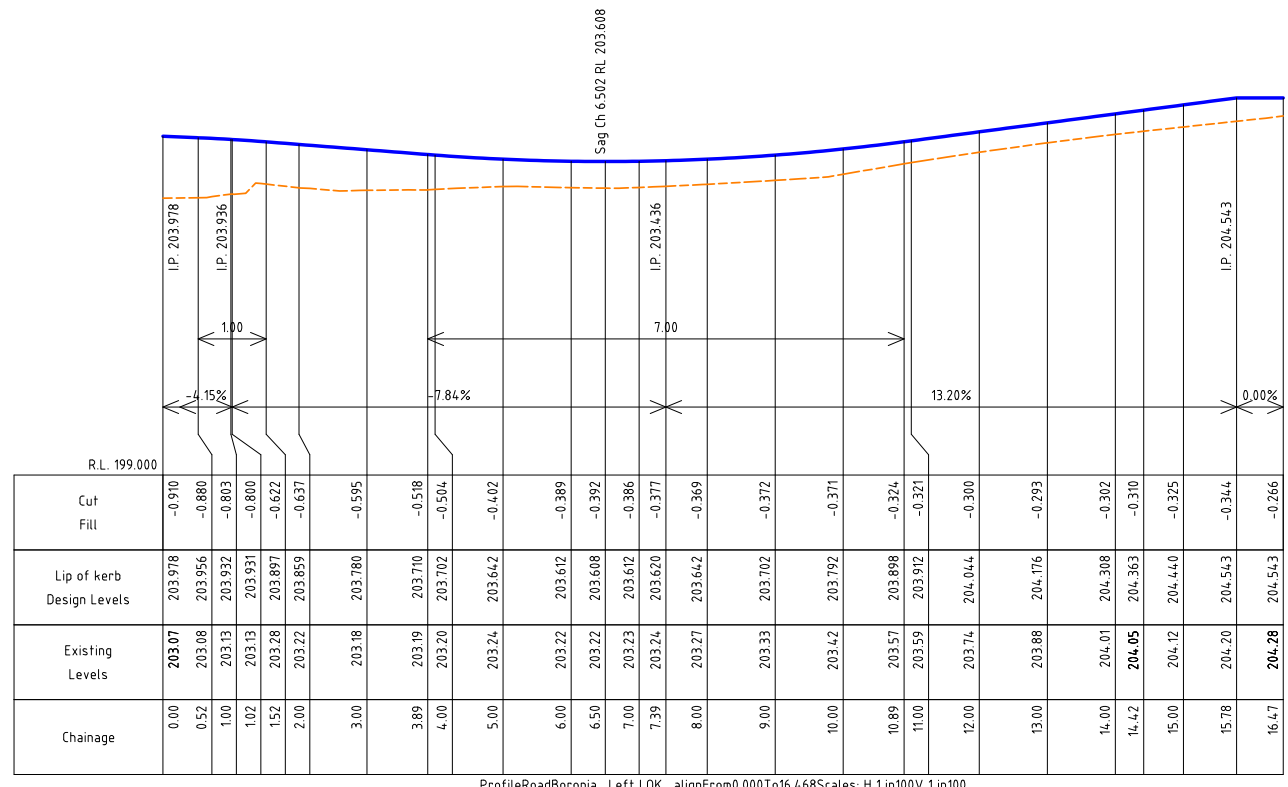
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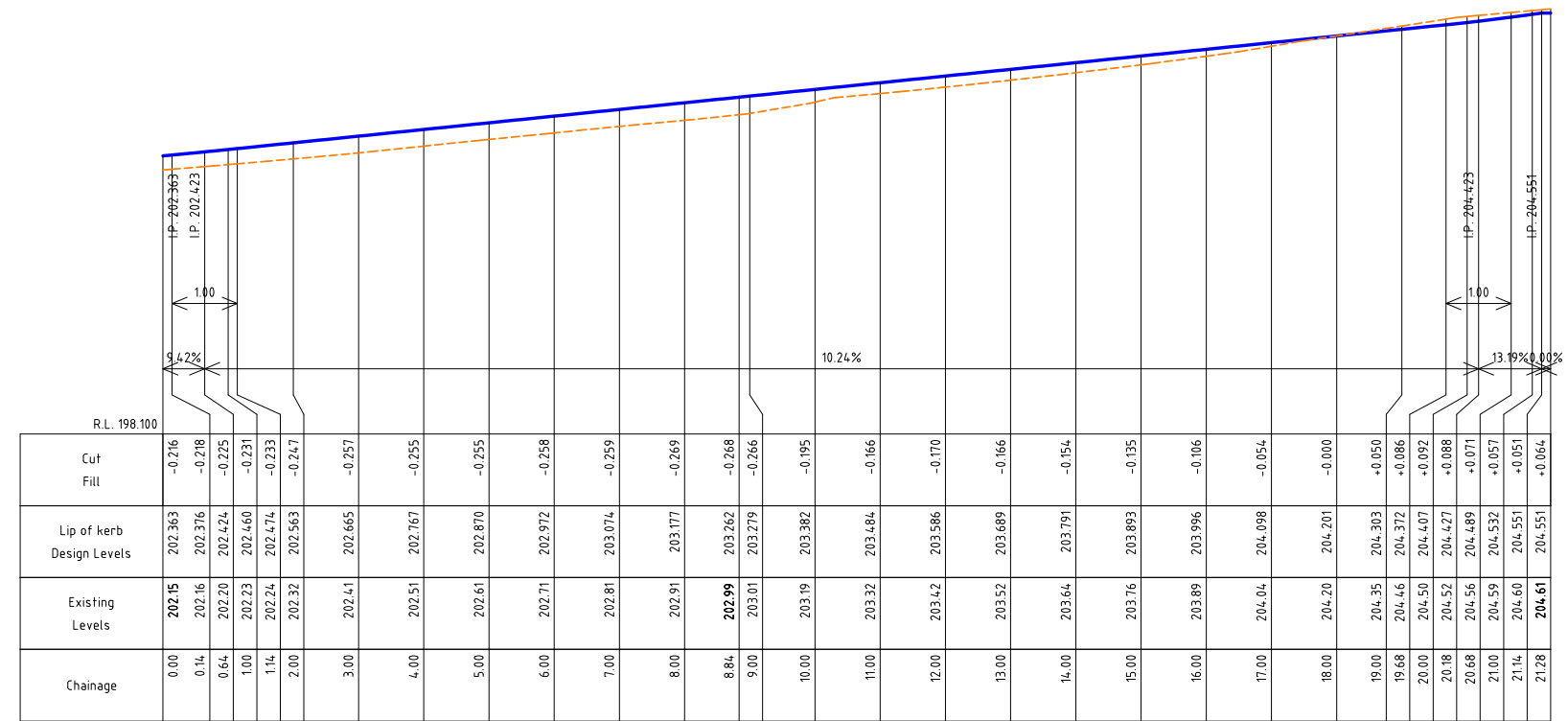
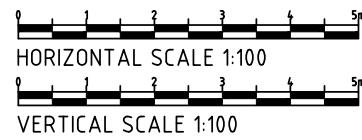
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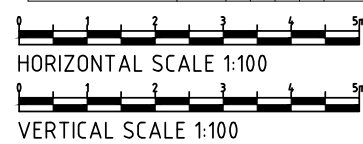
CARDINIA SHIRE COUNCIL	
CAROLINE AVENUE & BORONIA CRESCENT COCKATOO ROAD RECONSTRUCTION WORKS	
Drawing No	CCD. 20021 16
Sheet	16 OF 91
Rev	A
INTERSECTION PLAN - BORONIA CRESC & CAROLINE AVE	CCD Ref. No. 20021



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ProfileRoadBoronia_Cresc_Right LOK_alignFrom0.000To21.280Scales: H 1 in100V 1 in100



INTERSECTION PLAN -
CAROLINE AVENUE & BORONIA
CRESCENT

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Legend

- EXISTING KERB AND CHANNEL
- PROPOSED KERB AND CHANNEL
- EXISTING DRAINS AND PITS
- PROPOSED DRAINS AND PITS
- PROPOSED PROPERTY INLET
- WATER MAINS AND FITTINGS
- SEWER
- GAS MAINS
- TELECOM CABLES AND PITS
- EX --- W ---
- PROP --- W ---
- EX --- S ---
- PROP --- S ---
- EX --- G ---
- PROP --- G ---
- EX --- T ---
- PROP --- T ---

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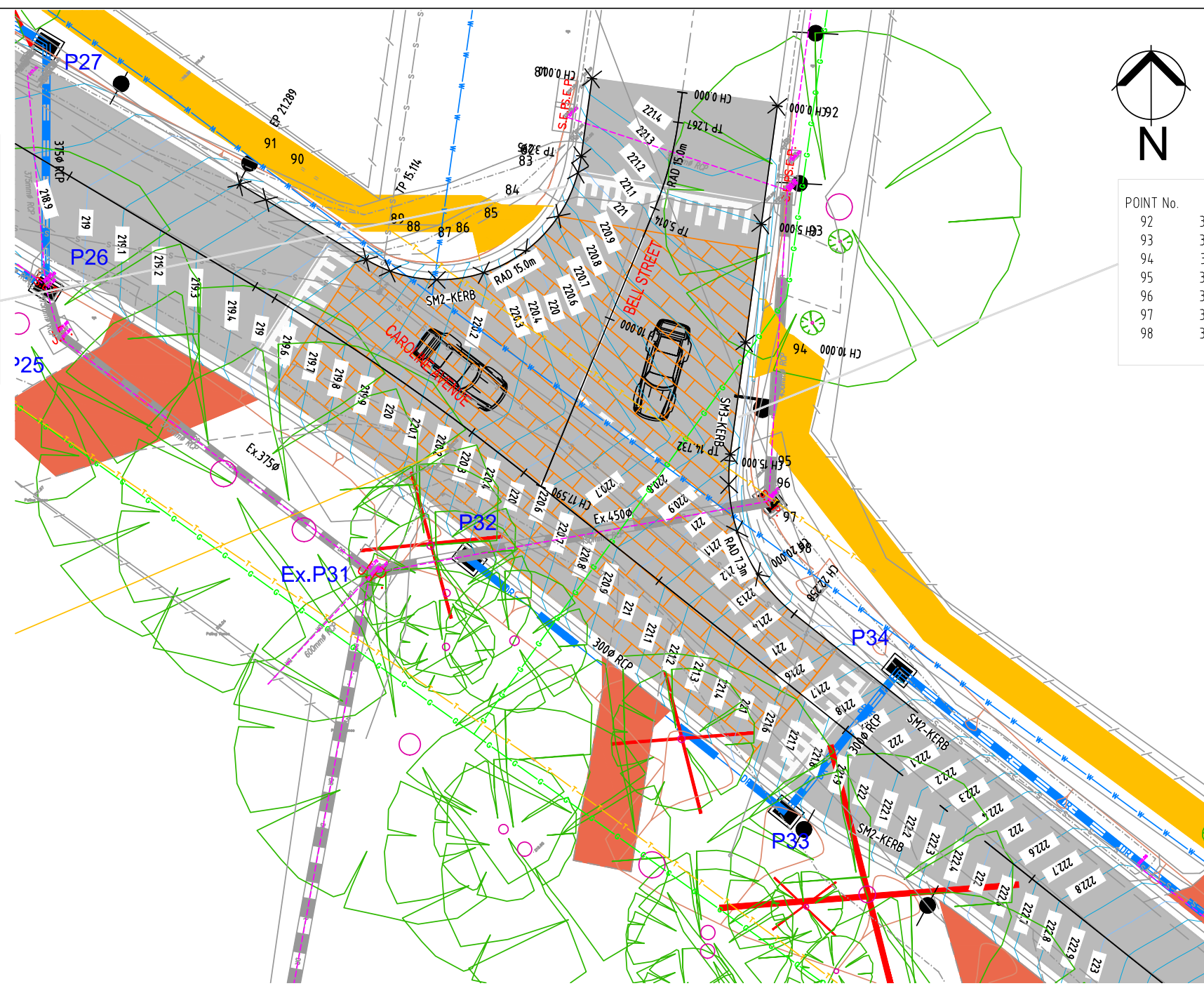
CARDINIA SHIRE COUNCIL
CAROLINE AVENUE & BORONIA CRESCENT
COCKATOO
ROAD RECONSTRUCTION WORKS

Drawing No. CCD. 20021 17
Sheet 17 OF 91
Rev A
CCD Ref. No. 20021



POINT No.	EASTING	NORTHING	Level
81	367928.757	5799699.075	221.362
82	367928.303	5799695.811	221.033
83	367928.165	5799695.120	220.957
84	367927.349	5799693.304	220.704
85	367925.984	5799691.855	220.439
86	367924.220	5799690.933	220.174
87	367922.251	5799690.638	219.965
88	367920.294	5799691.004	219.759
89	367919.290	5799691.482	219.654
90	367915.092	5799693.982	219.269
91	367913.985	5799694.641	219.170

POINT No.	EASTING	NORTHING	Level
92	367936.521	5799697.923	221.381
93	367935.852	5799692.968	221.197
94	367935.183	5799688.013	221.013
95	367934.549	5799683.323	220.878
96	367934.489	5799682.059	220.958
97	367934.839	5799680.096	221.114
98	367935.707	5799678.301	221.270



SCALE 1:200

**INTERSECTION PLAN -
CAROLINE AVENUE & BELL
STREET**

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PROPOSED KERB AND CHANNEL	---
EXISTING DRAINS AND PITS	---
PROPOSED DRAINS AND PITS	---
PROPOSED PROPERTY INLET	---
WATER MAINS AND FITTINGS	---
SEWER	---
GAS MAINS	---
TELECOM CABLES AND PITS	---
EX	---
PROP	---

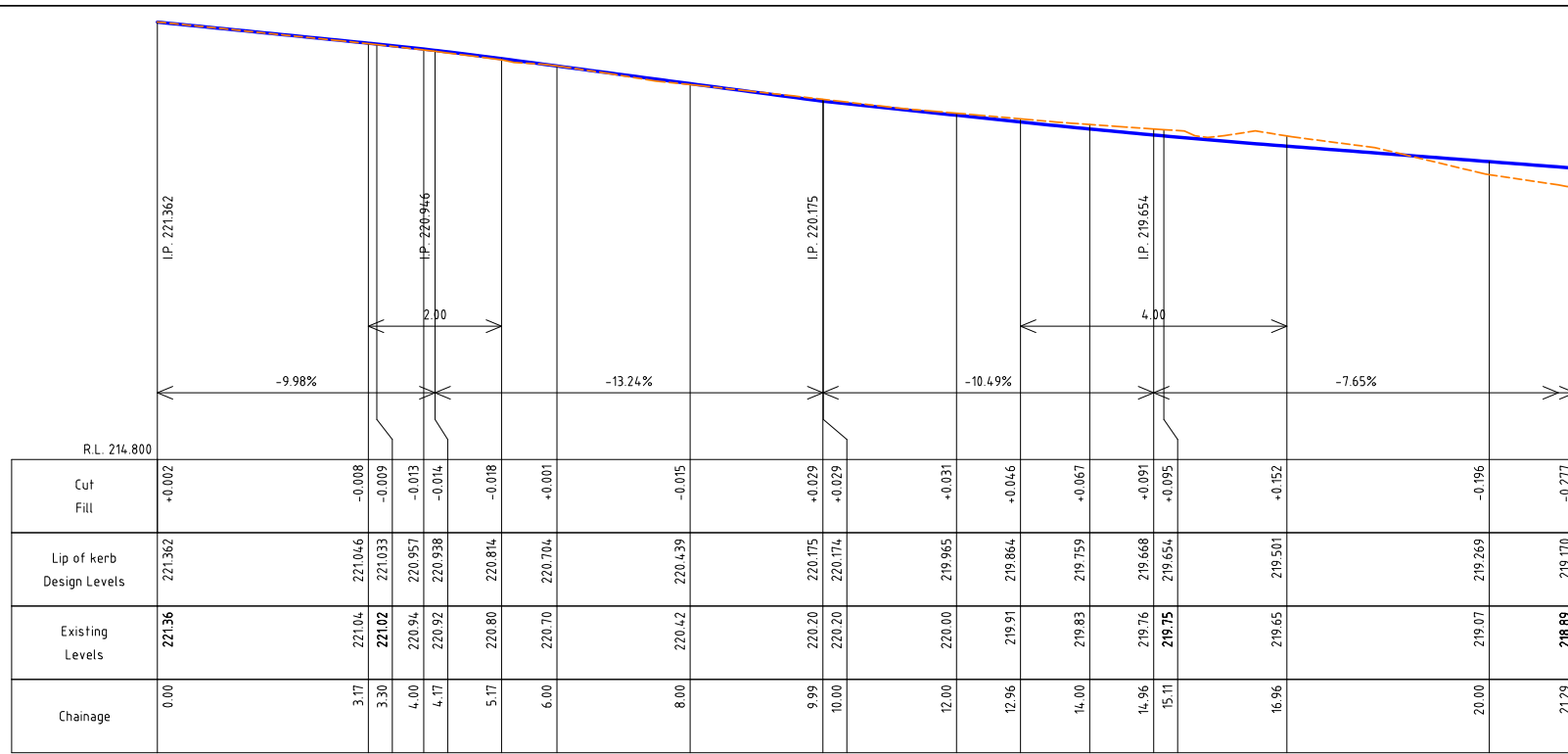
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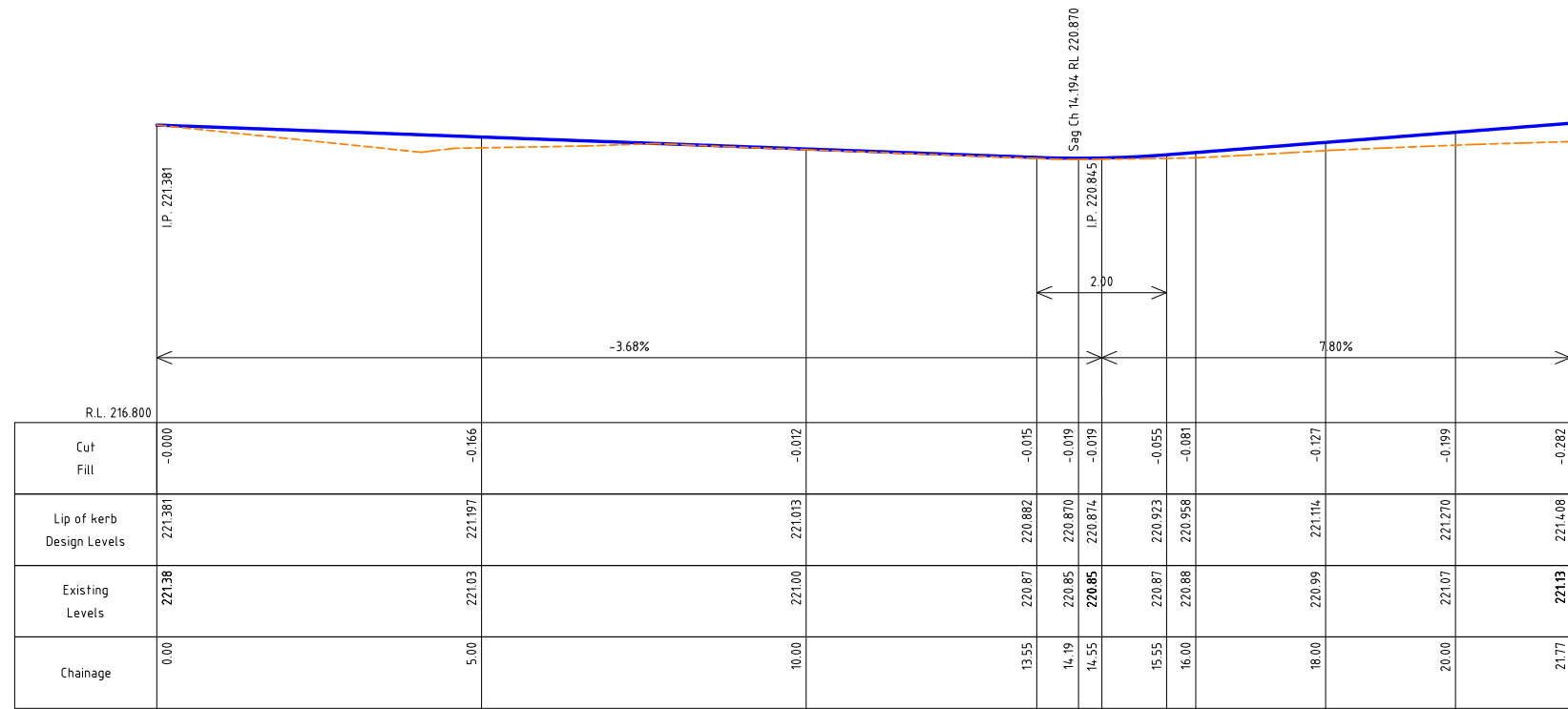
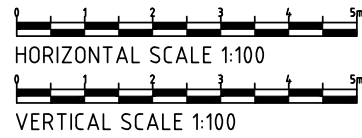
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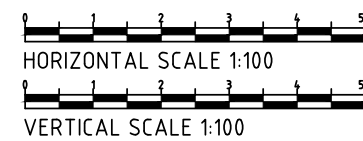
CARDINIA SHIRE COUNCIL CAROLINE AVENUE & BORONIA CRESCENT COCKATOO ROAD RECONSTRUCTION WORKS	Drawing No. CCD. 20021 18 Sheet 18 OF 91 Rev A CCD Ref. No. 20021
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ProfileRoadBell Street_R LOK_AlignmentFrom0.000To21.289Scales: H 1 in100V 1 in100



ProfileRoadBell Street_L LOK_AlignmentFrom0.000To21.769Scales: H 1 in100V 1 in100



INTERSECTION PLAN -
CAROLINE AVENUE & BELL
STREET

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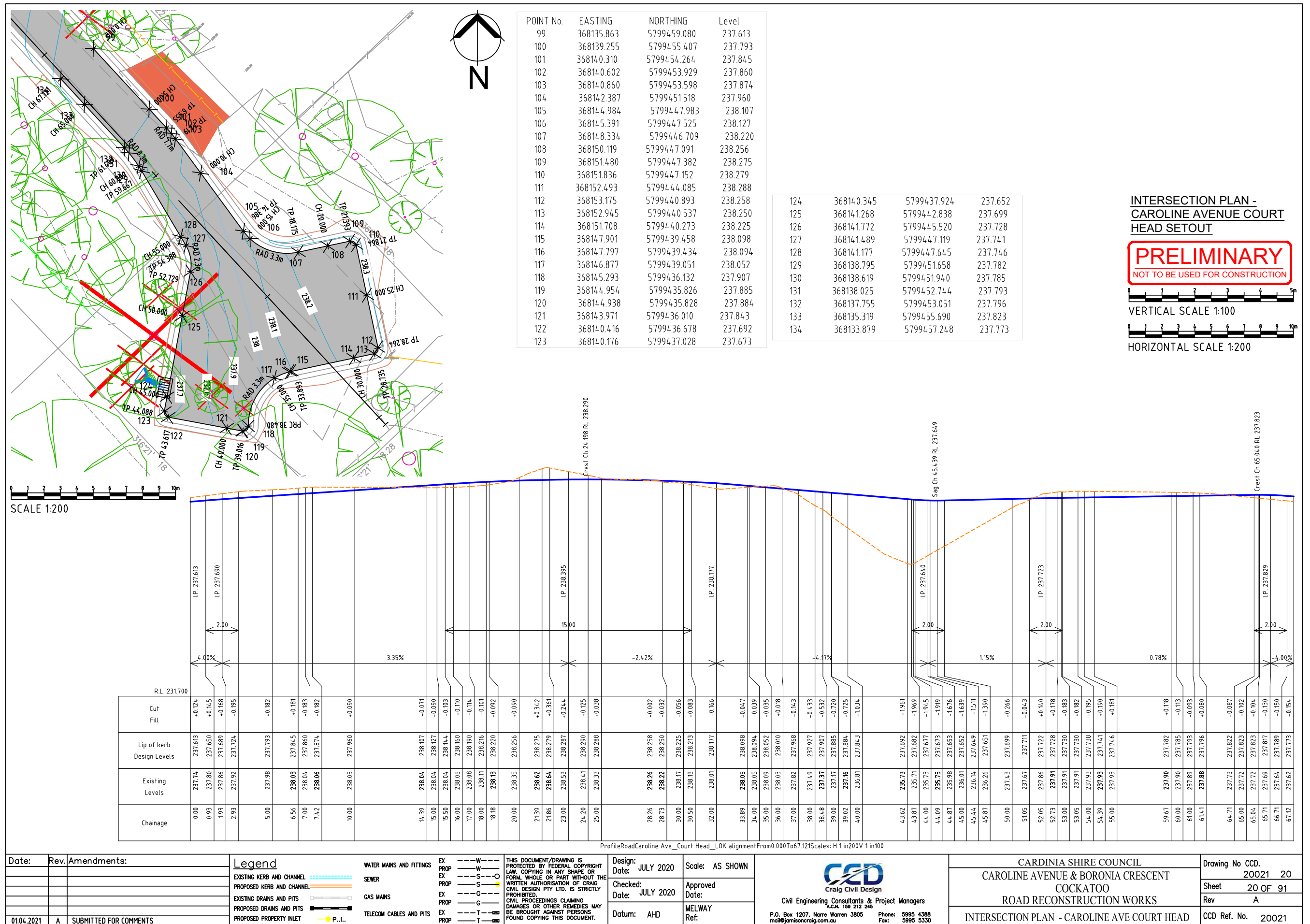
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WATER MAINS AND FITTINGS	---
SEWER	---
GAS MAINS	---
TELECOM CABLES AND PITS	---
EX	---
PROP	---

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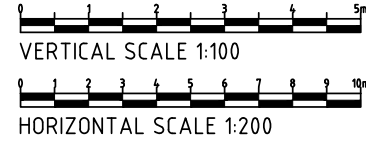
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CARDINIA SHIRE COUNCIL CAROLINE AVENUE & BORONIA CRESCENT COCKATOO ROAD RECONSTRUCTION WORKS	
Drawing No	CCD. 20021 19
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INTERSECTION PLAN -
CAROLINE AVENUE COURT
HEAD SETOUT

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SCALE 1:200

Date:	01.04.2021
Rev. Amendments:	A SUBMITTED FOR COMMENTS

Legend

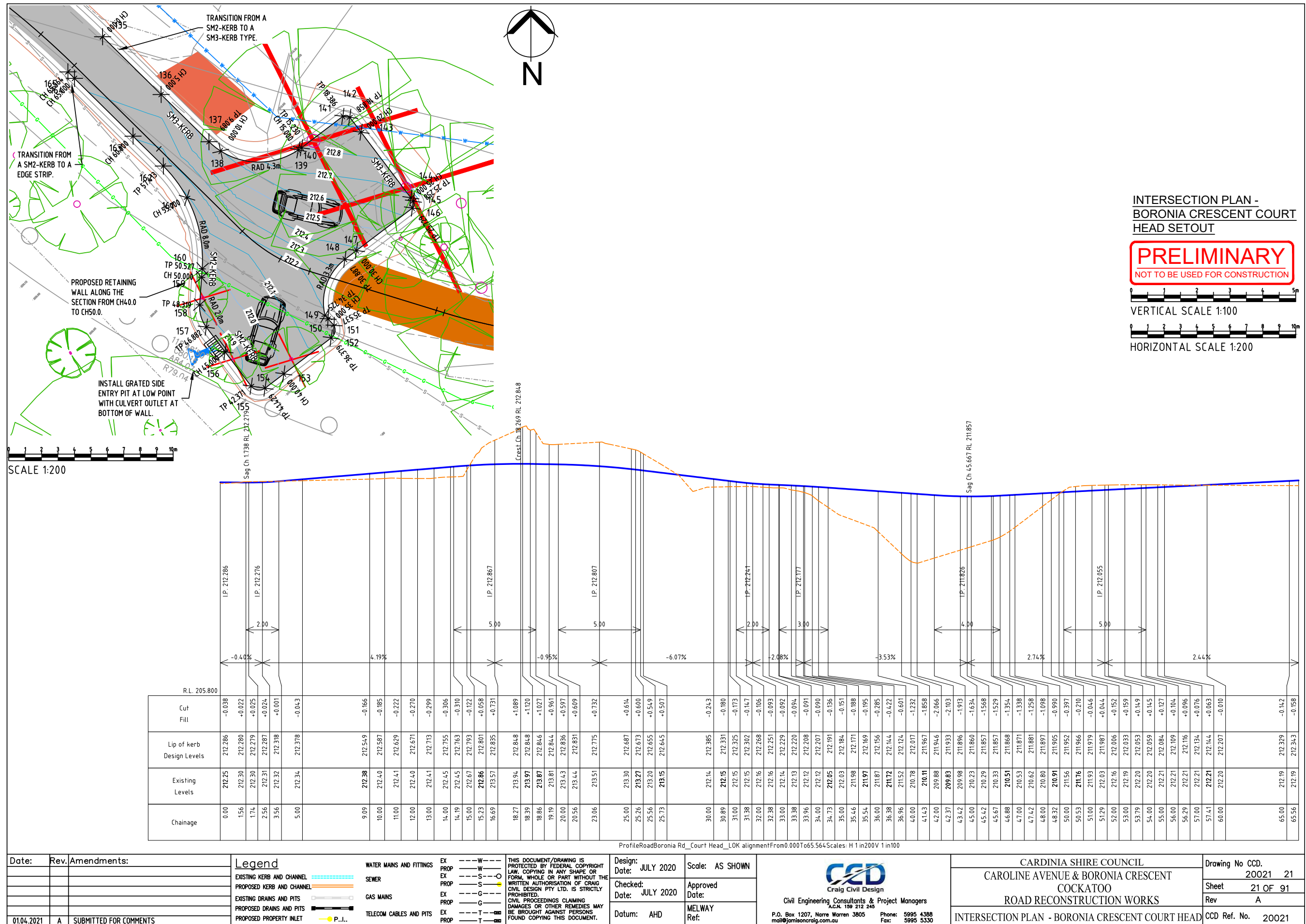
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- WATER MAINS AND FITTINGS
- SEWER
- GAS MAINS
- TELECOM CABLES AND PITS

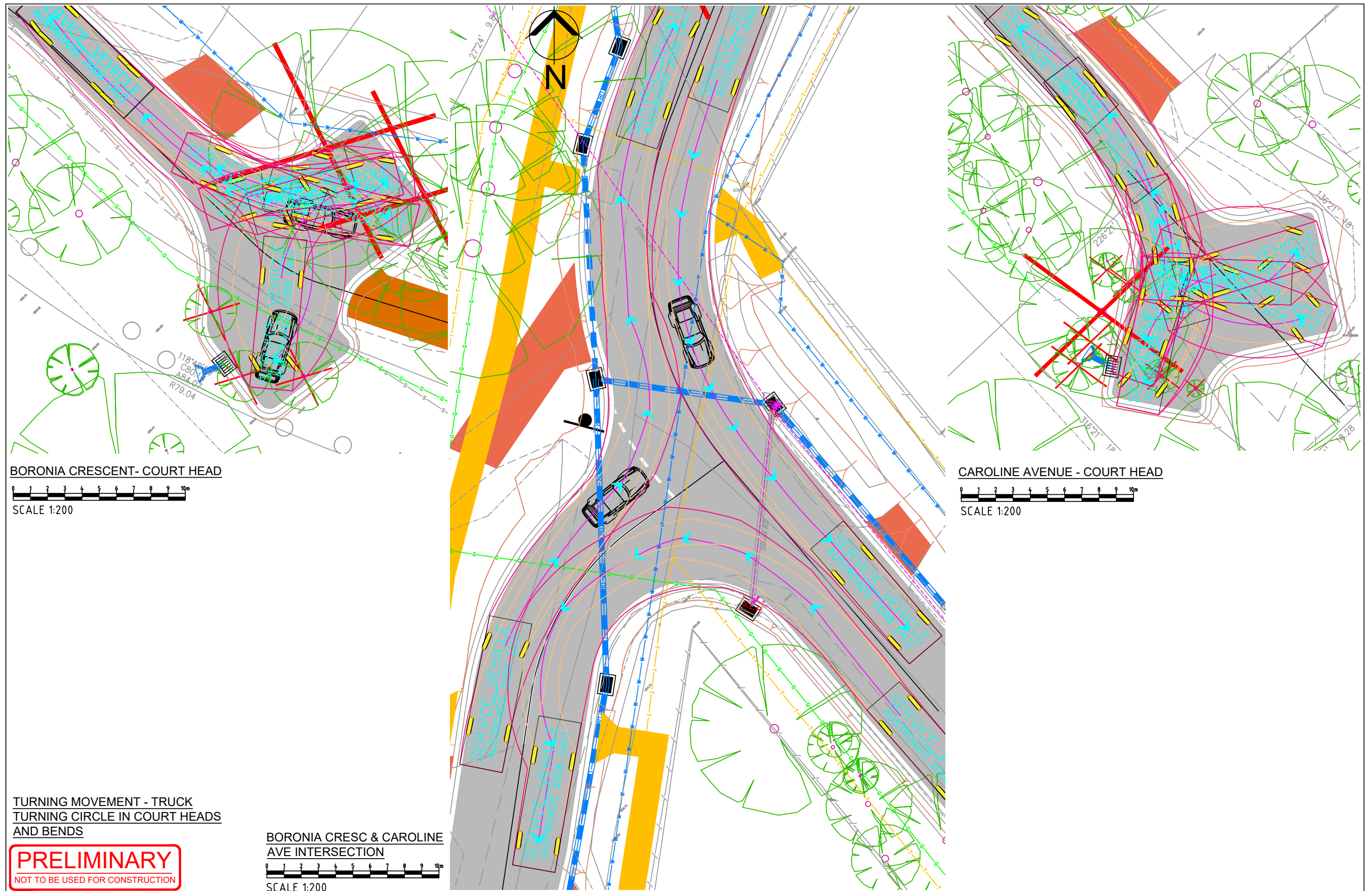
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CARDINIA SHIRE COUNCIL		Drawing No.	CCD.
CAROLINE AVENUE & BORONIA CRESCENT			20021 20
ROAD RECONSTRUCTION WORKS		Sheet	20 OF 91
INTERSECTION PLAN - CAROLINE AVE COURT HEAD		Rev	A
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BORONIA CRESCENT - COURT HEAD
SCALE 1:200

CAROLINE AVENUE - COURT HEAD
SCALE 1:200

TURNING MOVEMENT - TRUCK
TURNING CIRCLE IN COURT HEADS
AND BENDS

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BORONIA CRESC & CAROLINE AVE INTERSECTION
SCALE 1:200

Date:	Rev.	Amendments:
01.04.2021	A	SUBMITTED FOR COMMENTS

Legend	
EXISTING KERB AND CHANNEL	--- W ---
PROPOSED KERB AND CHANNEL	--- S ---
EXISTING DRAINS AND PITS	--- G ---
PROPOSED DRAINS AND PITS	--- T ---
PROPOSED PROPERTY INLET	--- P.L. ---
WATER MAINS AND FITTINGS	--- W ---
SEWER	--- S ---
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TELECOM CABLES AND PITS	--- T ---

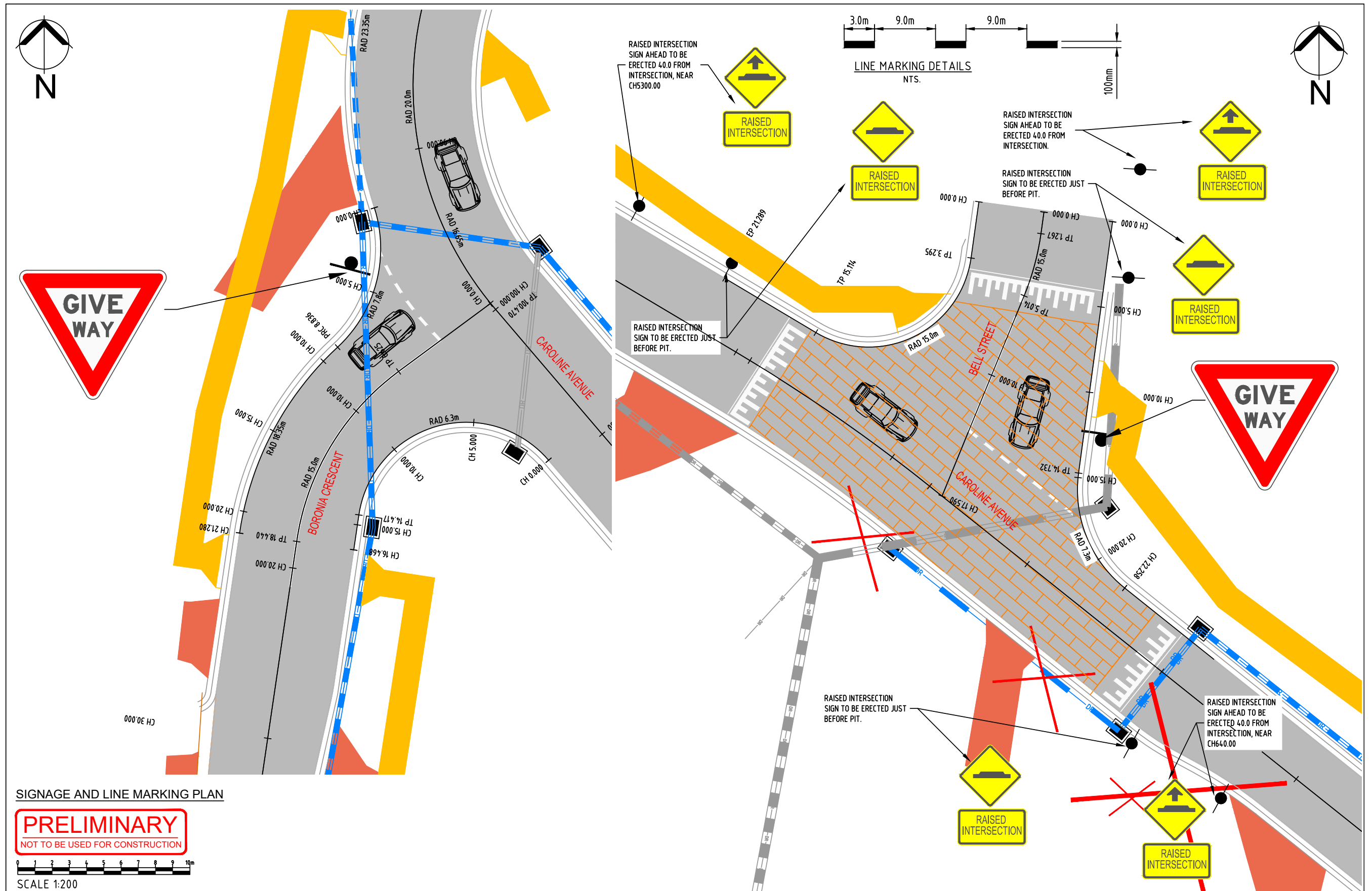
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CAROLINE AVENUE & BORONIA CRESCENT
COCKATOO
ROAD RECONSTRUCTION WORKS
TURNING MOVEMENTS

Drawing No	CCD. 20021 22
Sheet	22 OF 91
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SIGNAGE AND LINE MARKING PLAN

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SCALE 1:200

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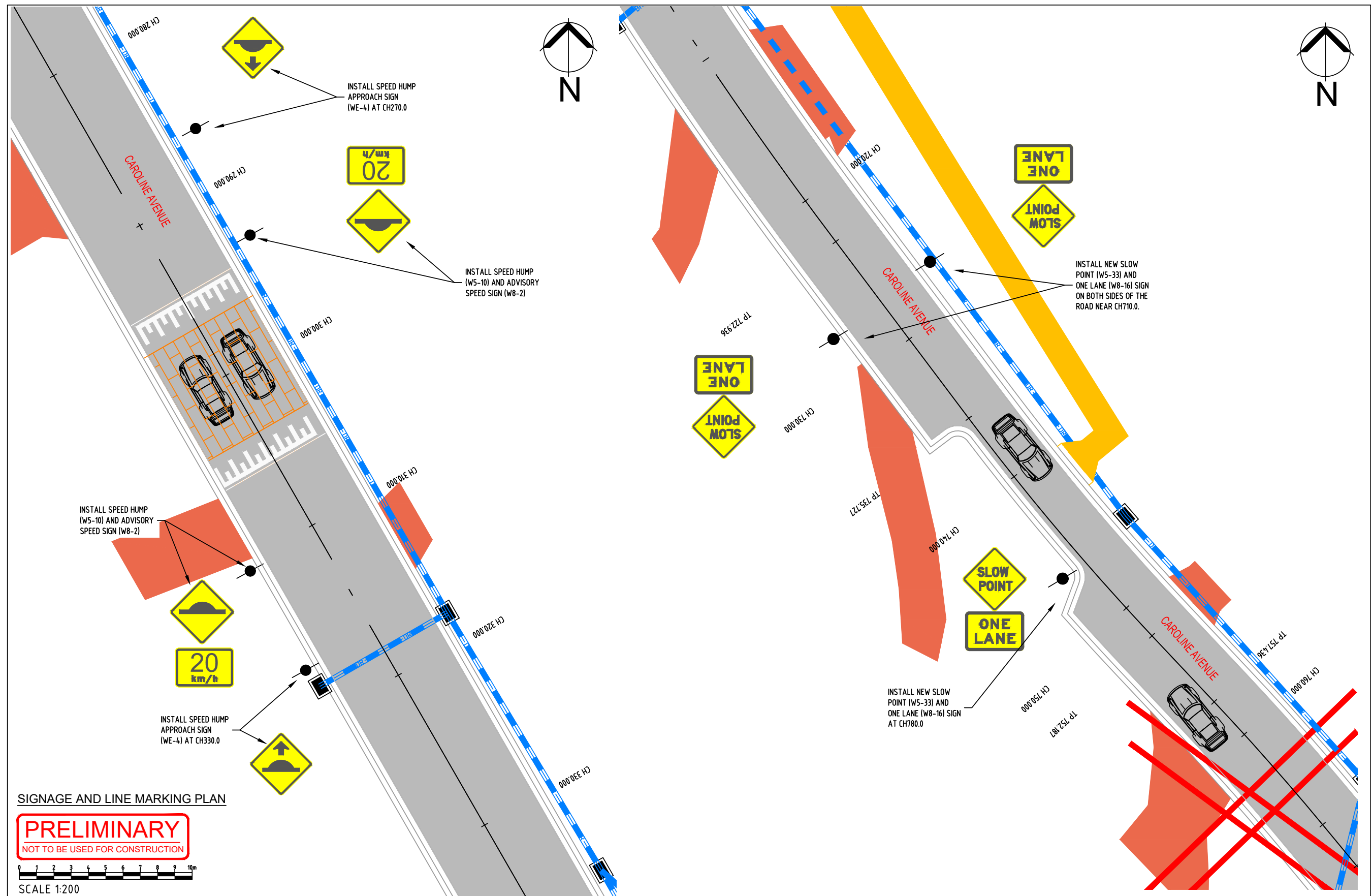
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WATER MAINS AND FITTINGS	EX --- W ---
SEWER	EX --- S ---
GAS MAINS	EX --- G ---
TELECOM CABLES AND PITS	EX --- T ---

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CAROLINE AVENUE & BORONIA CRESCENT
COCKATOO
ROAD RECONSTRUCTION WORKS
SIGNAGE AND LINE MARKING PLAN

Drawing No.	CCD. 20021 23
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SIGNAGE AND LINE MARKING PLAN

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PROPOSED KERB AND CHANNEL	---
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SEWER	---
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TELECOM CABLES AND PITS	---
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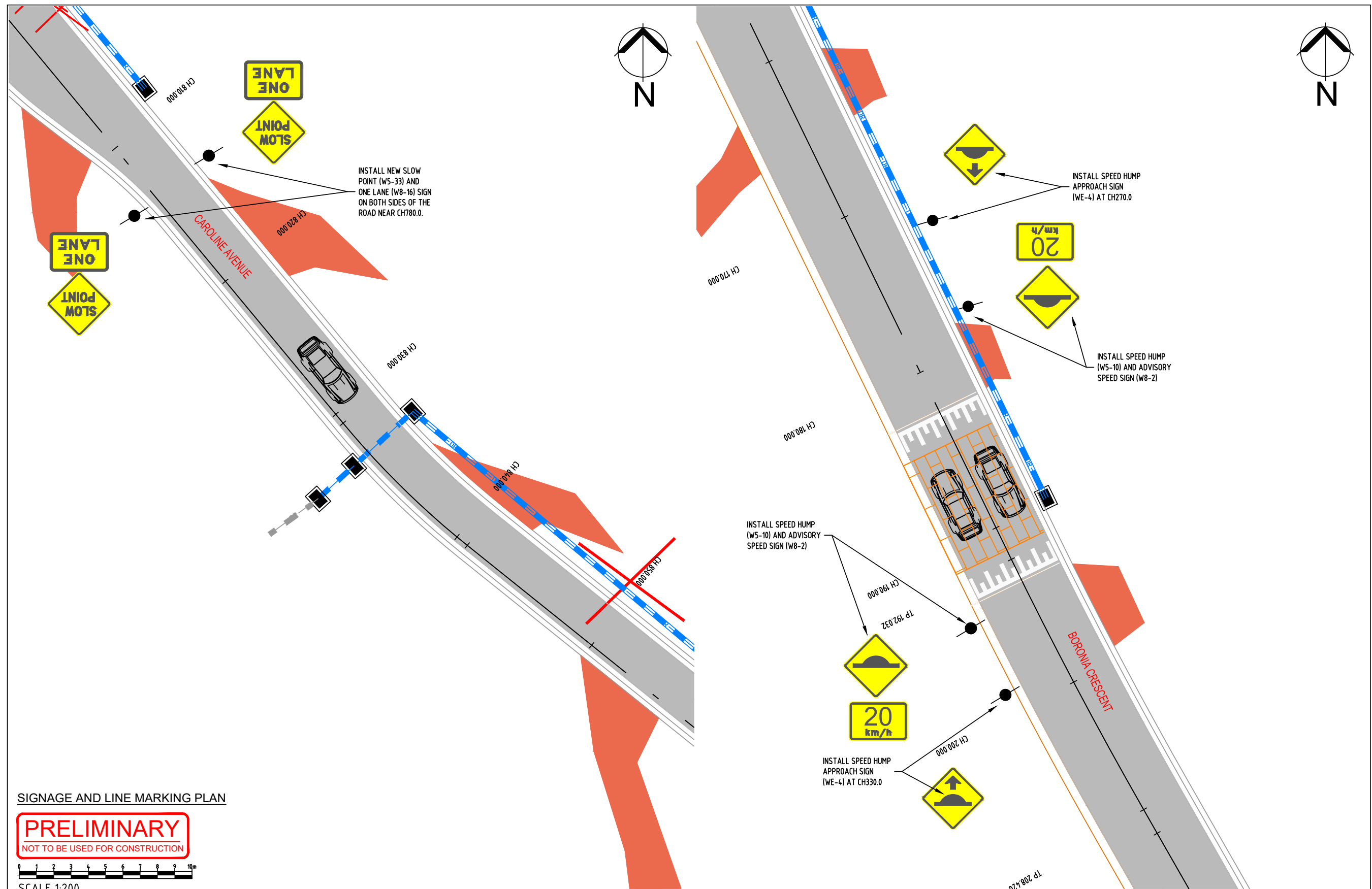
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COCKATOO
ROAD RECONSTRUCTION WORKS
SIGNAGE AND LINE MARKING PLAN

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SIGNAGE AND LINE MARKING PLAN

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PROPOSED KERB AND CHANNEL	---
EXISTING DRAINS AND PITS	---
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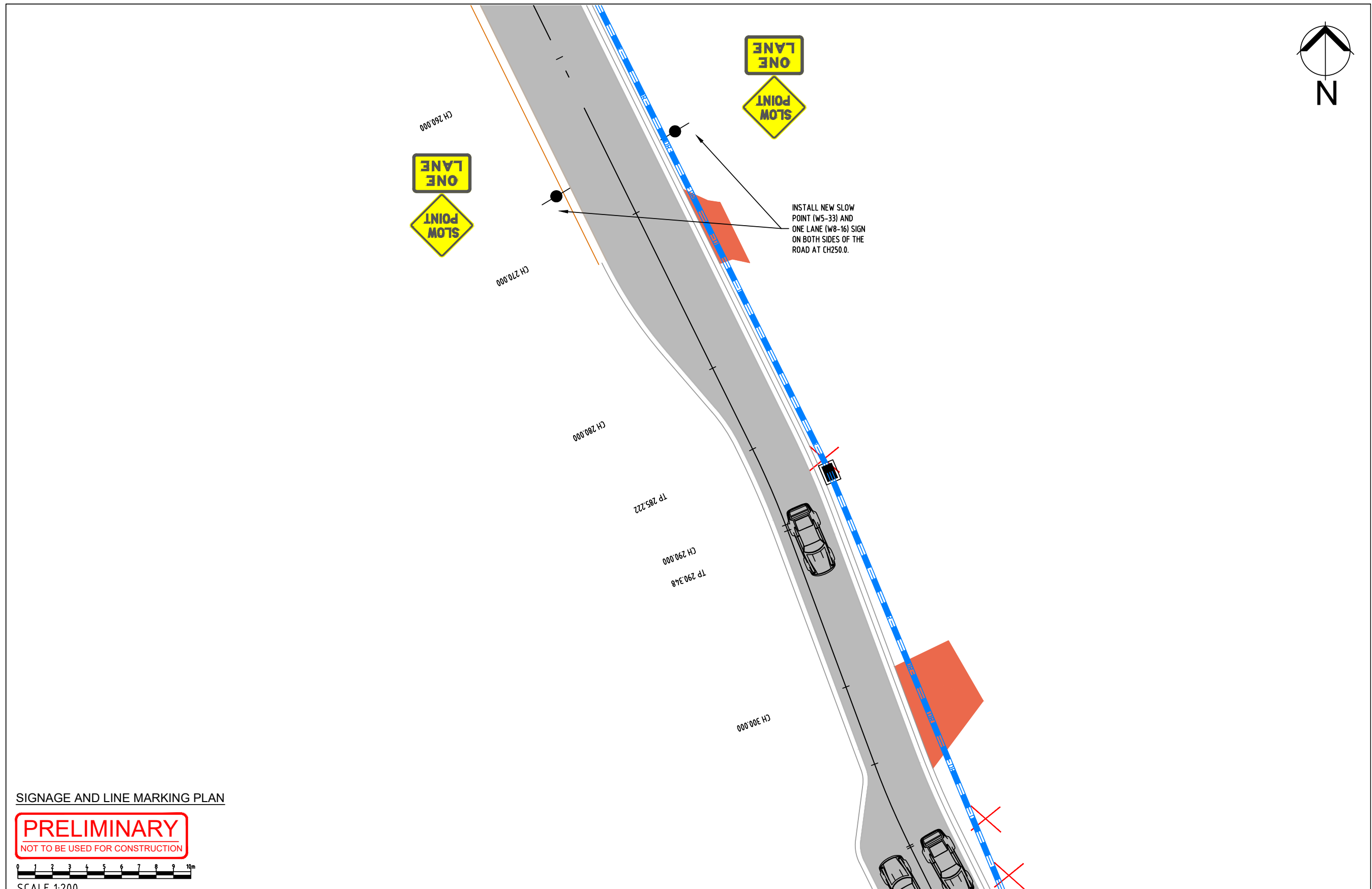
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COCKATOO
ROAD RECONSTRUCTION WORKS
SIGNAGE AND LINE MARKING PLAN

Drawing No.	CCD. 20021 25
Sheet	25 OF 91
Rev	A
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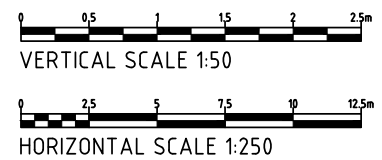
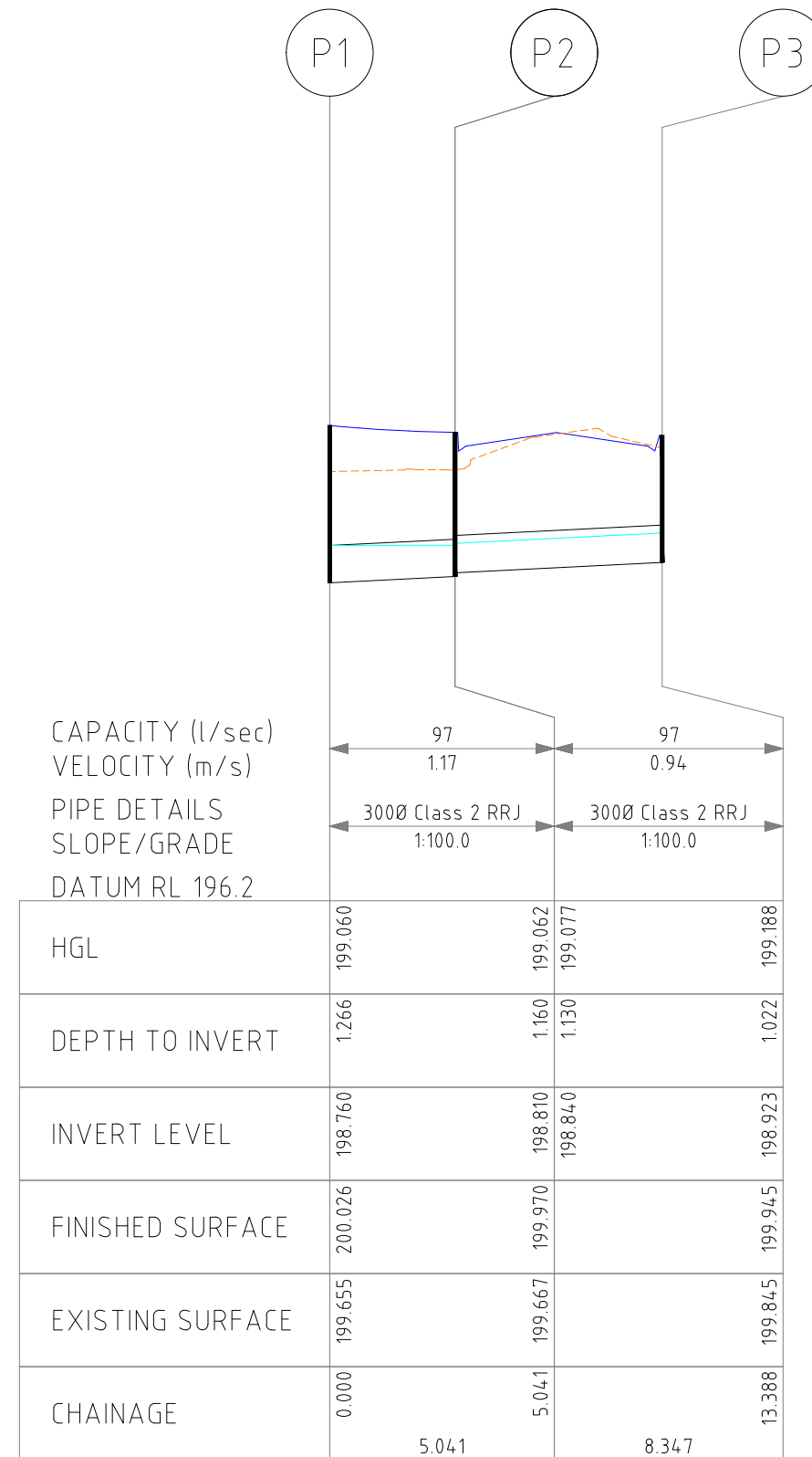


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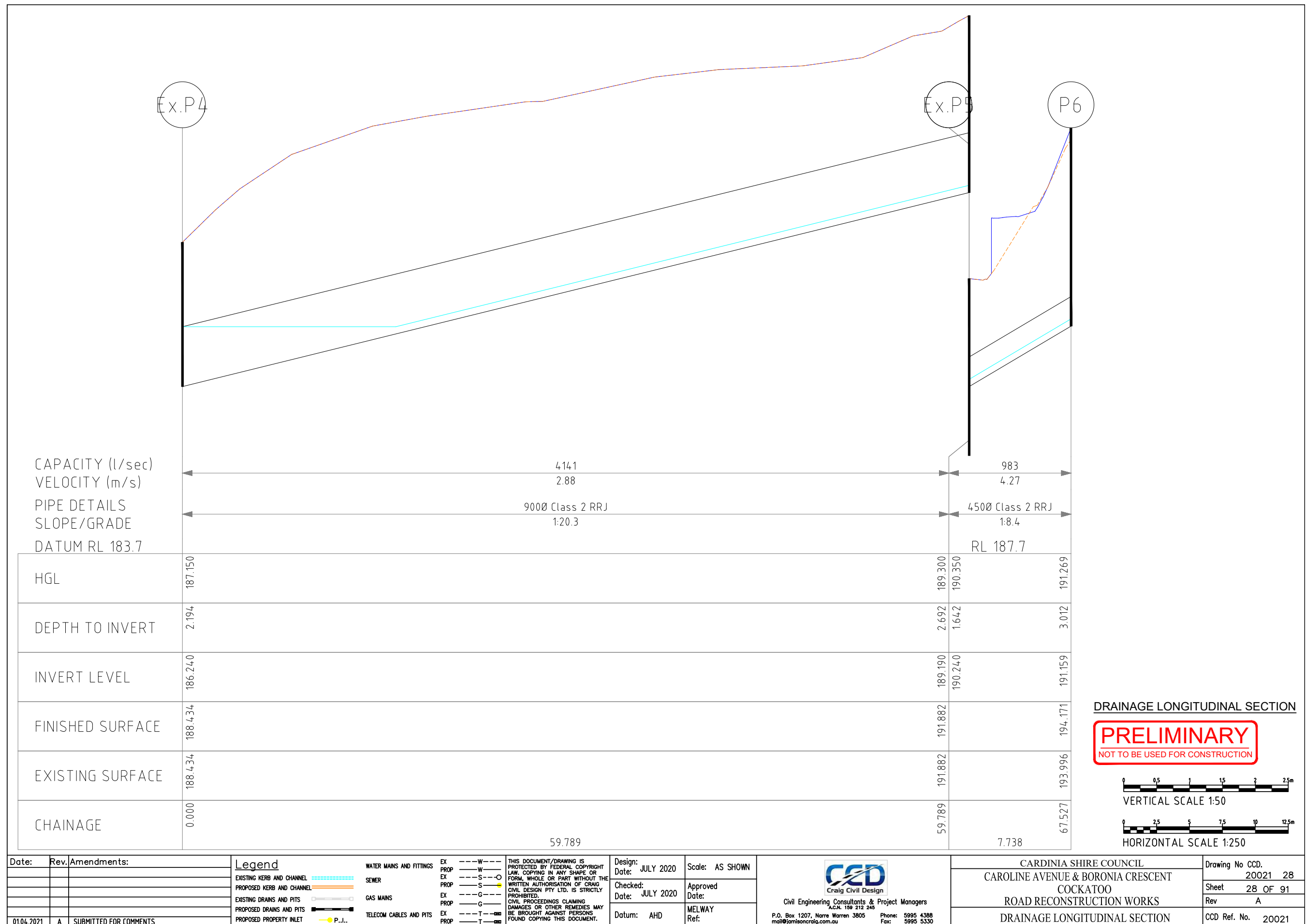


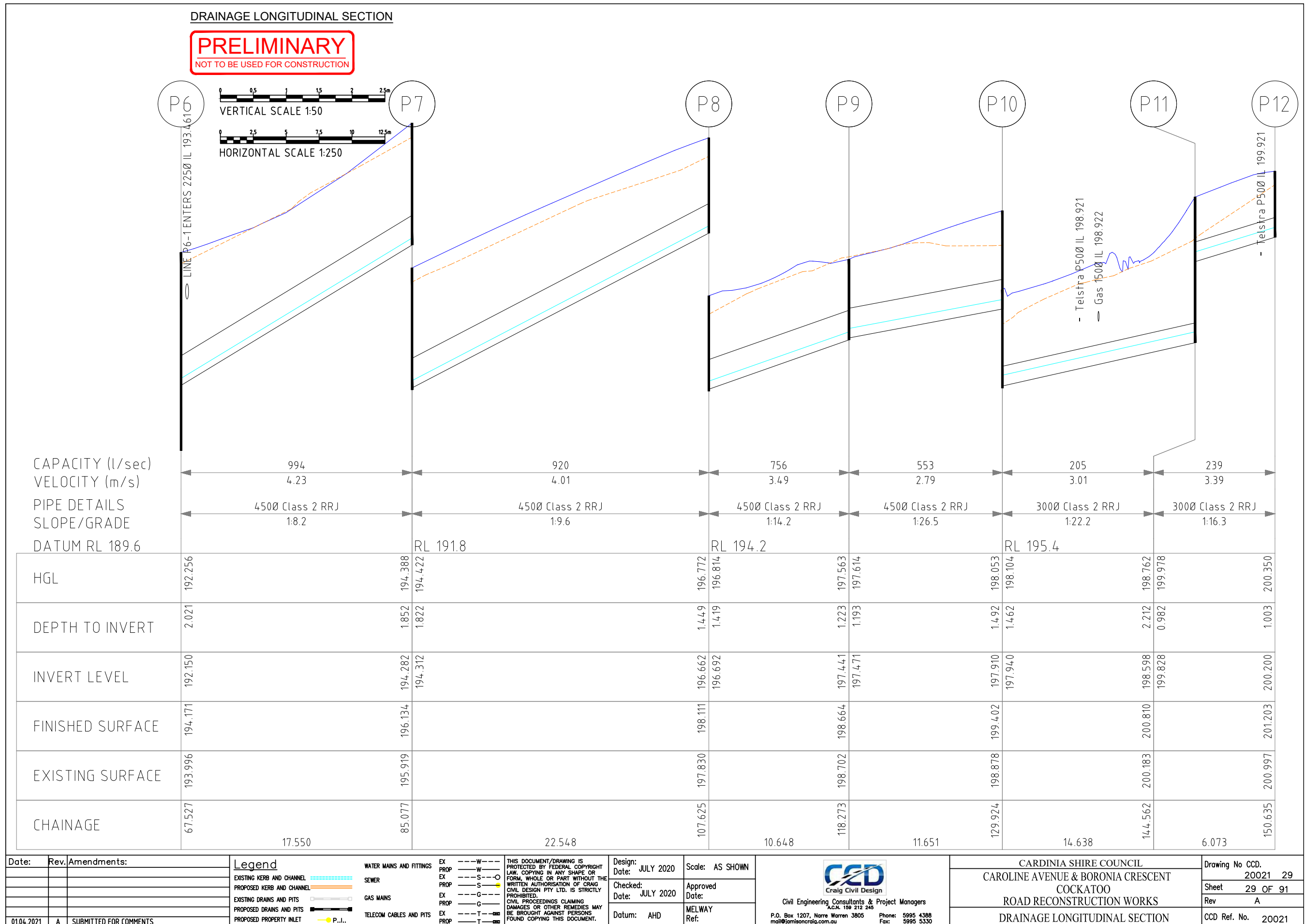
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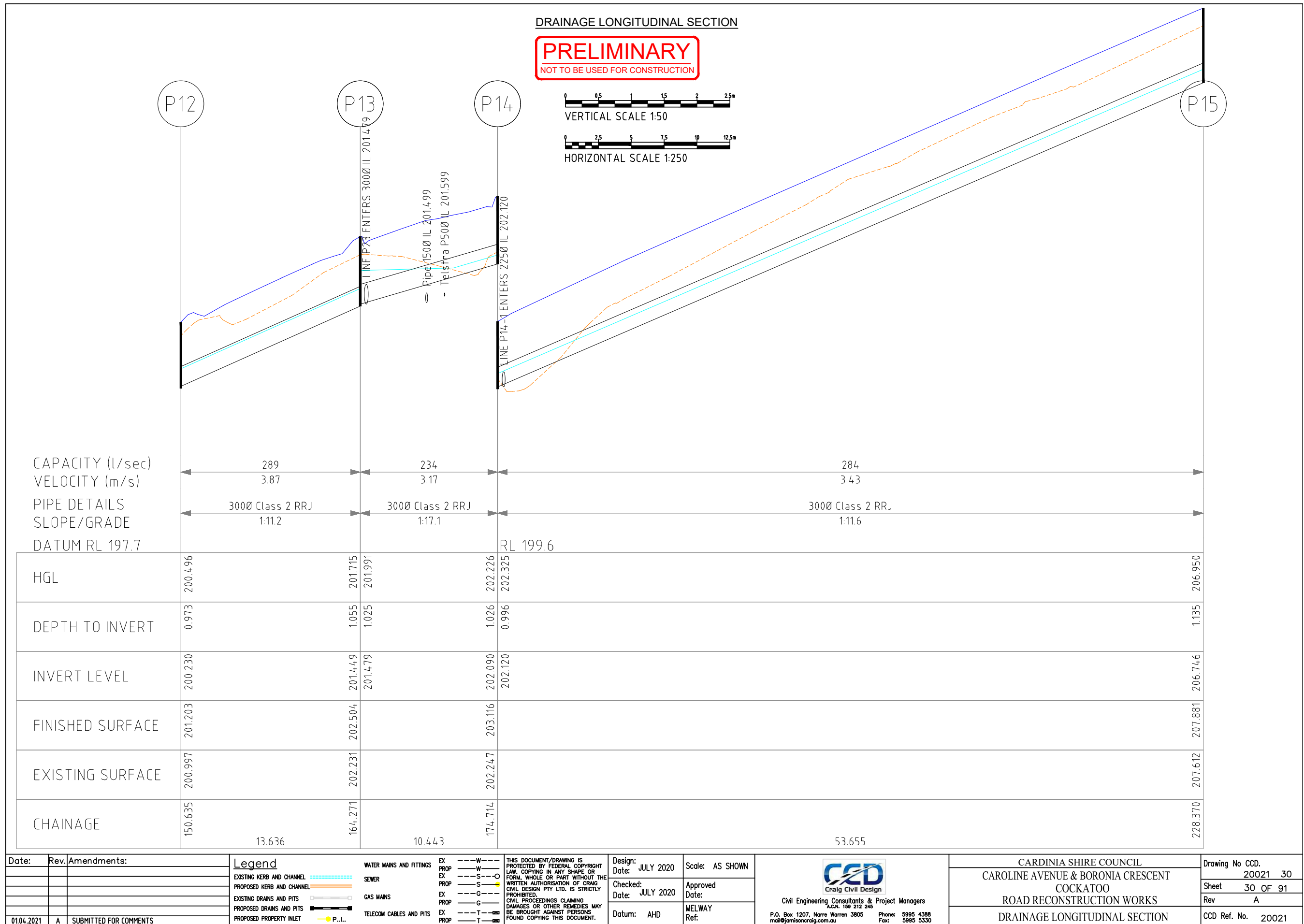
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DRAINAGE LONGITUDINAL SECTION FOR LINE 1
SCALES: HORIZONTAL 1:250 VERTICAL 1:50

Date: 01.04.2021	Rev: A	Amendments: SUBMITTED FOR COMMENTS	Legend EXISTING KERB AND CHANNEL PROPOSED KERB AND CHANNEL EXISTING DRAINS AND PITS PROPOSED DRAINS AND PITS PROPOSED PROPERTY INLET	WATER MAINS AND FITTINGS SEWER GAS MAINS TELECOM CABLES AND PITS	EX ---W--- PROP ---W--- EX ---S--- PROP ---S--- EX ---G--- PROP ---G--- EX ---T--- PROP ---T---	THIS DOCUMENT/DRAWING IS PROTECTED BY FEDERAL COPYRIGHT LAW. COPYING IN ANY SHAPE OR FORM, WHOLE OR PART WITHOUT THE WRITTEN AUTHORIZATION OF CRAIG CIVIL DESIGN PTY LTD. IS STRICTLY PROHIBITED. CIVIL PROCEEDINGS CLAIMING DAMAGES OR OTHER REMEDIES MAY BE BROUGHT AGAINST PERSONS FOUND COPYING THIS DOCUMENT.	Design: JULY 2020 Date: JULY 2020 Checked: JULY 2020 Date: JULY 2020 Datum: AHD	Scale: AS SHOWN Approved Date: MELWAY Ref:	 Craig Civil Design Civil Engineering Consultants & Project Managers A.C.N. 159 212 245 P.O. Box 1207, Narre Warren 3805 Phone: 5995 4388 Fax: 5995 5330 Email: mail@jamisoncraig.com.au	CARDINIA SHIRE COUNCIL CAROLINE AVENUE & BORONIA CRESCENT COCKATOO ROAD RECONSTRUCTION WORKS DRAINAGE LONGITUDINAL SECTION	Drawing No. CCD. 20021 27 Sheet 27 OF 91 Rev A CCD Ref. No. 20021
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Legend	
EXISTING KERB AND CHANNEL	--- W ---
PROPOSED KERB AND CHANNEL	--- W ---
EXISTING DRAINS AND PITS	--- S ---
PROPOSED DRAINS AND PITS	--- S ---
PROPOSED PROPERTY INLET	--- G ---
	--- G ---
	--- T ---
	--- T ---

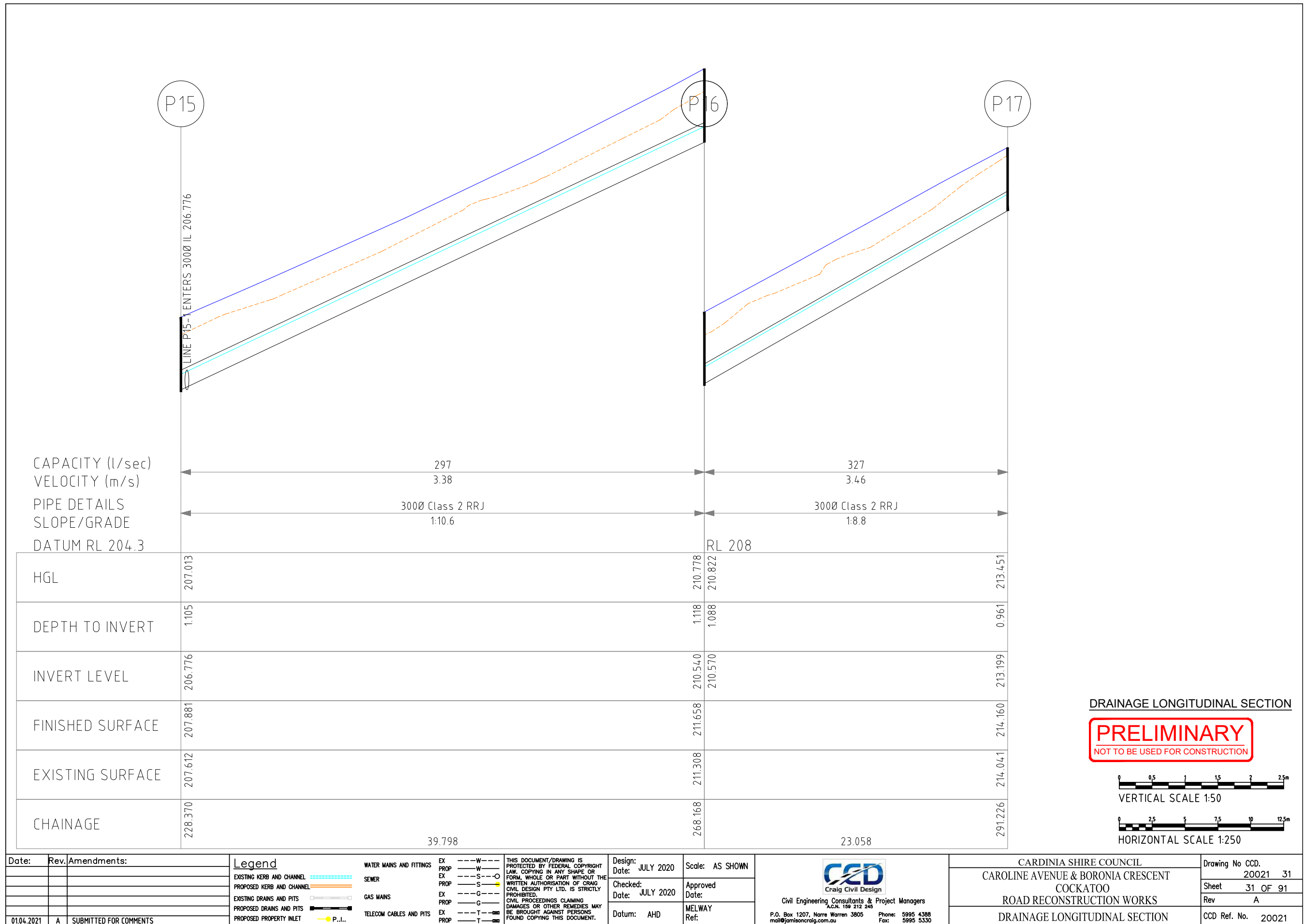
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SEWER	EX --- S ---	PROP --- S ---
GAS MAINS	EX --- G ---	PROP --- G ---
TELECOM CABLES AND PITS	EX --- T ---	PROP --- T ---

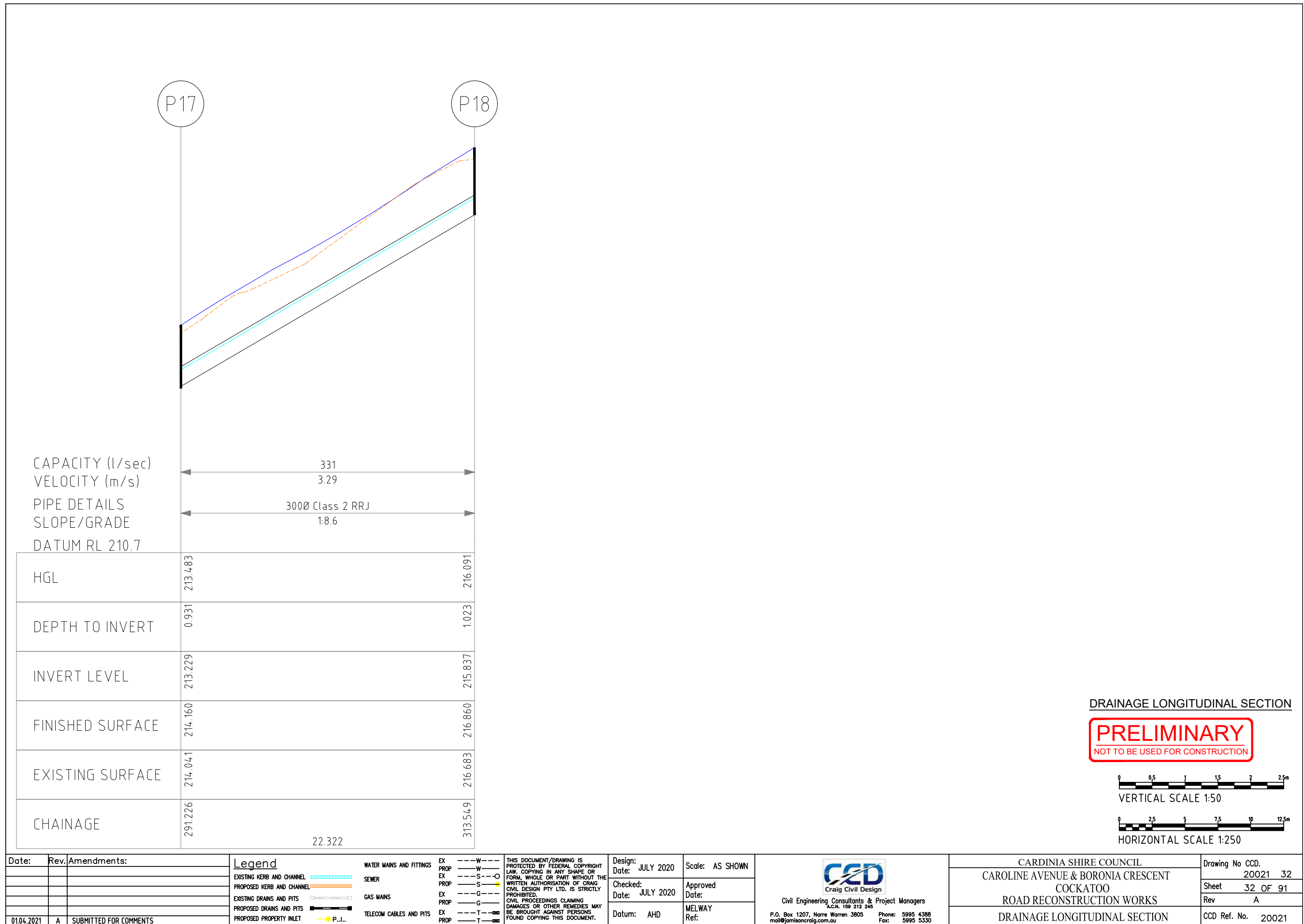
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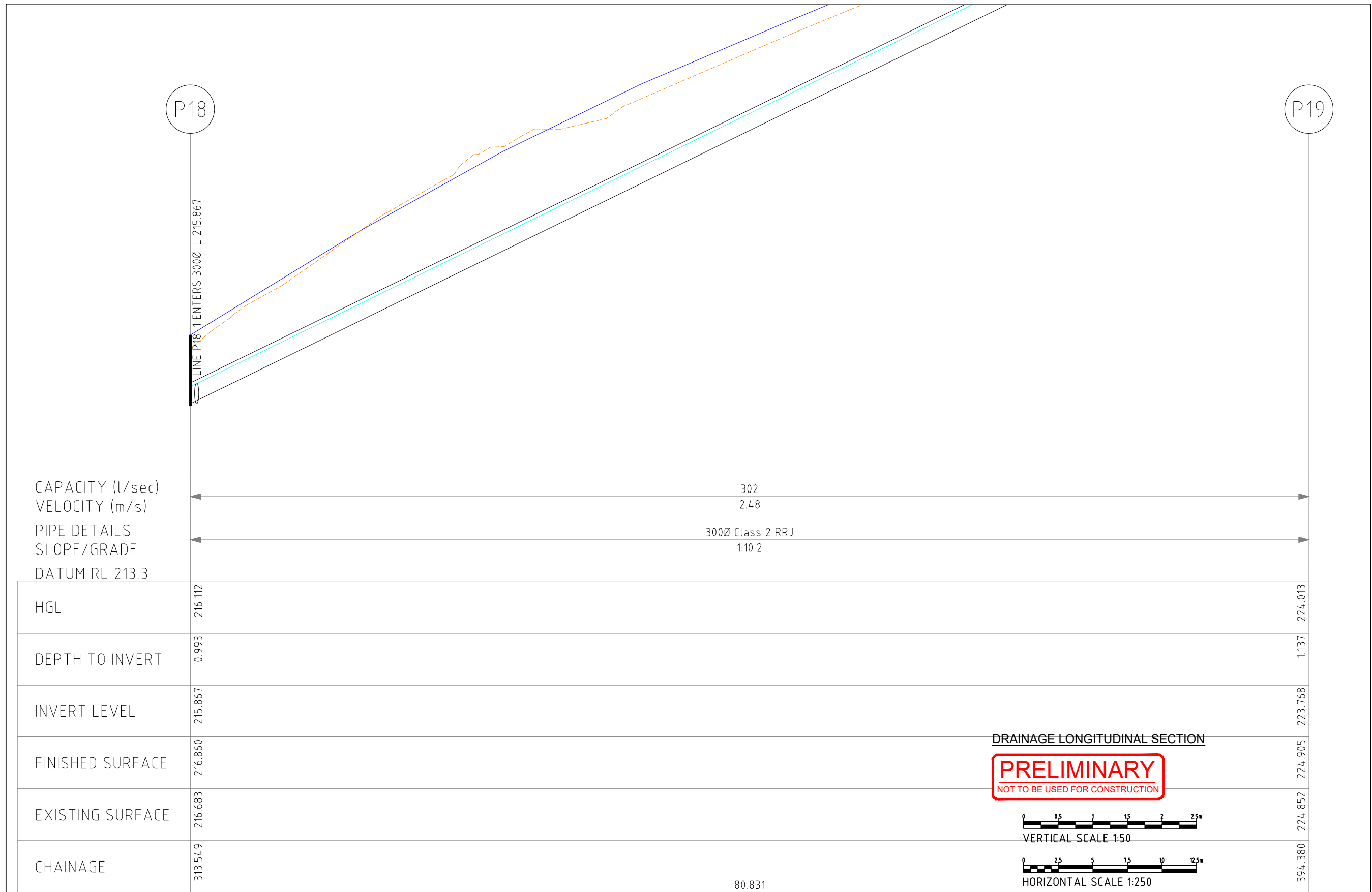
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ROAD RECONSTRUCTION WORKS	
DRAINAGE LONGITUDINAL SECTION	

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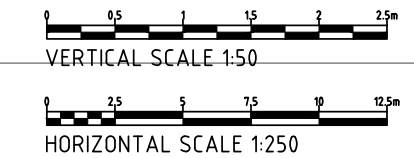






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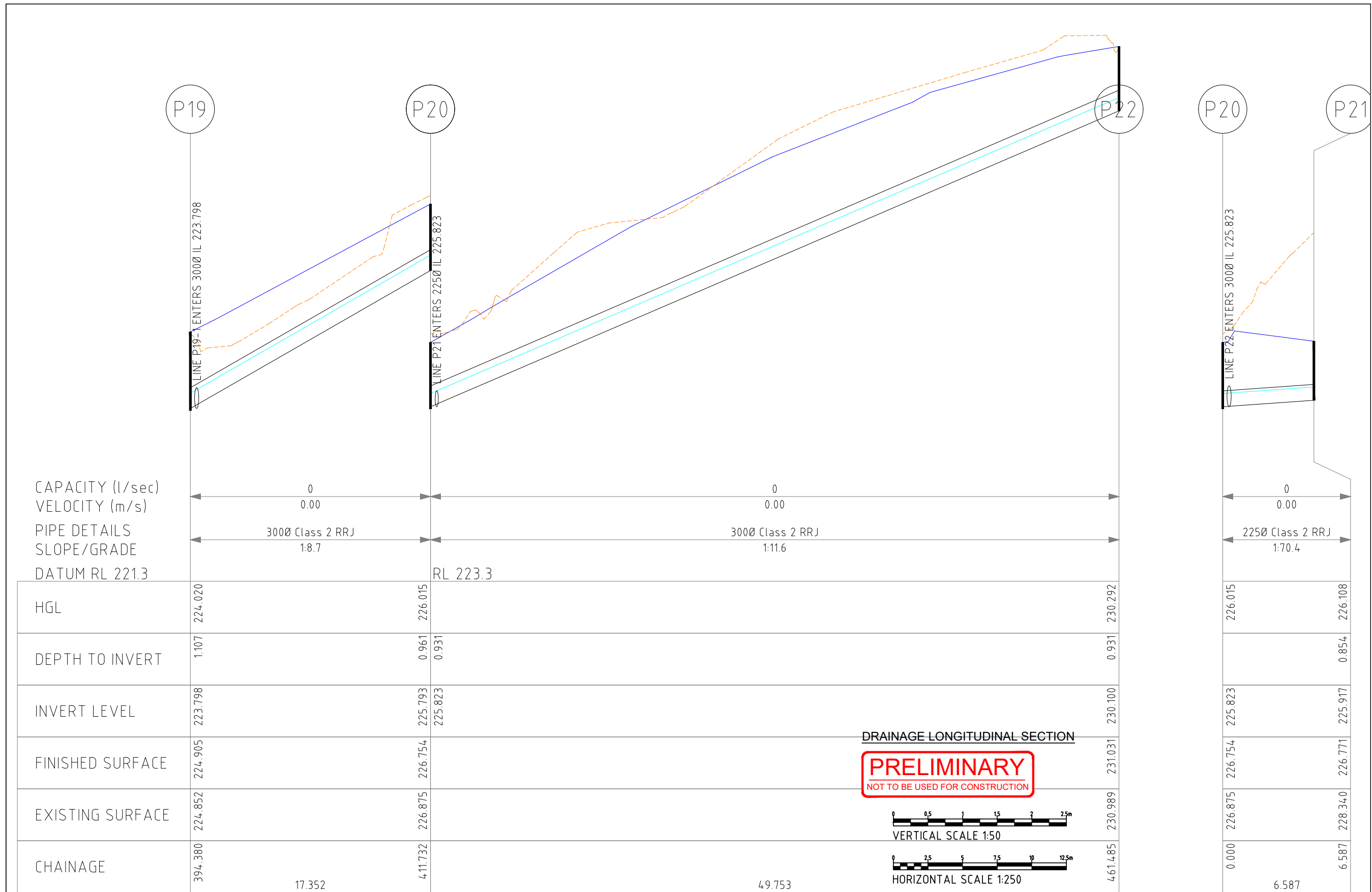
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WATER MAINS AND FITTINGS	---
SEWER	---
GAS MAINS	---
TELECOM CABLES AND PITS	---

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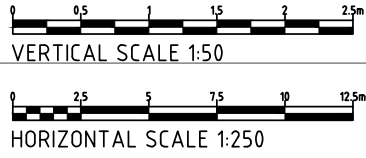
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CAROLINE AVENUE & BORONIA CRESCENT
COCKATOO
ROAD RECONSTRUCTION WORKS
DRAINAGE LONGITUDINAL SECTION

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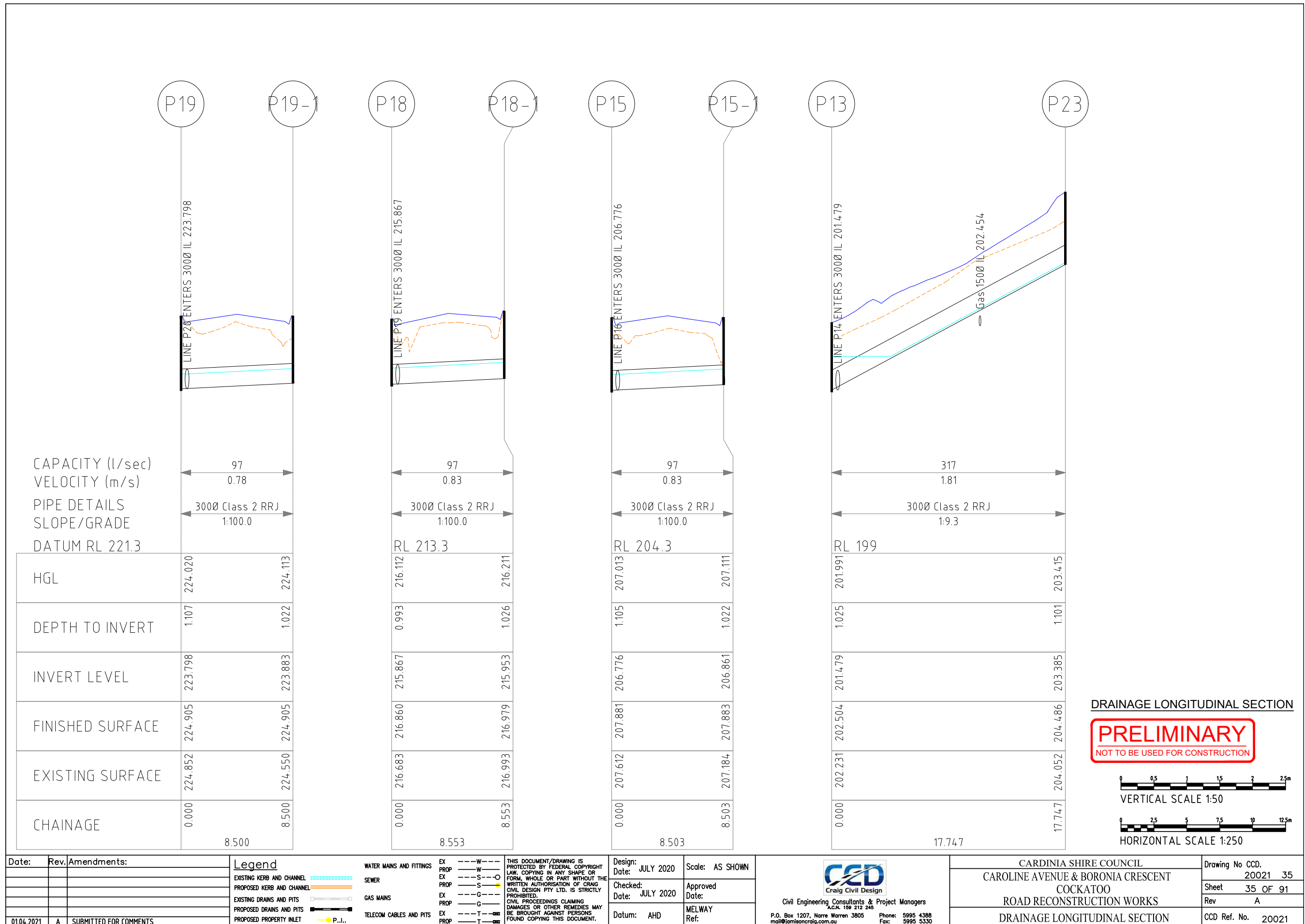
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PROPOSED DRAINS AND PITS	---
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WATER MAINS AND FITTINGS	---
SEWER	---
GAS MAINS	---
TELECOM CABLES AND PITS	---
EX	---
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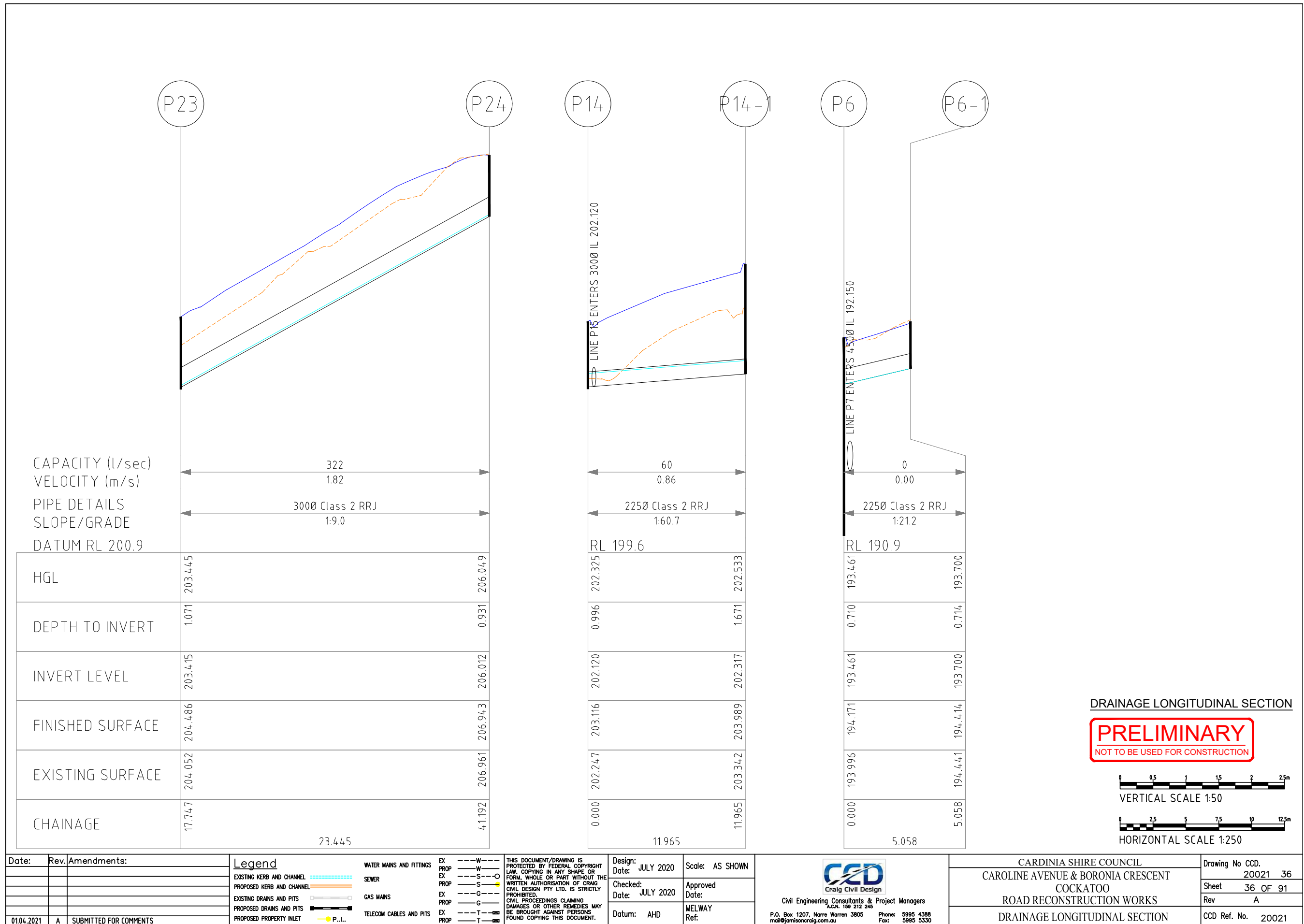
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COCKATOO
ROAD RECONSTRUCTION WORKS
DRAINAGE LONGITUDINAL SECTION

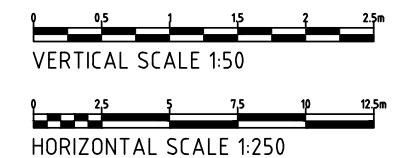
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Legend	
EXISTING KERB AND CHANNEL	--- W ---
PROPOSED KERB AND CHANNEL	--- S ---
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PROPOSED DRAINS AND PITS	--- T ---
PROPOSED PROPERTY INLET	--- P.I. ---

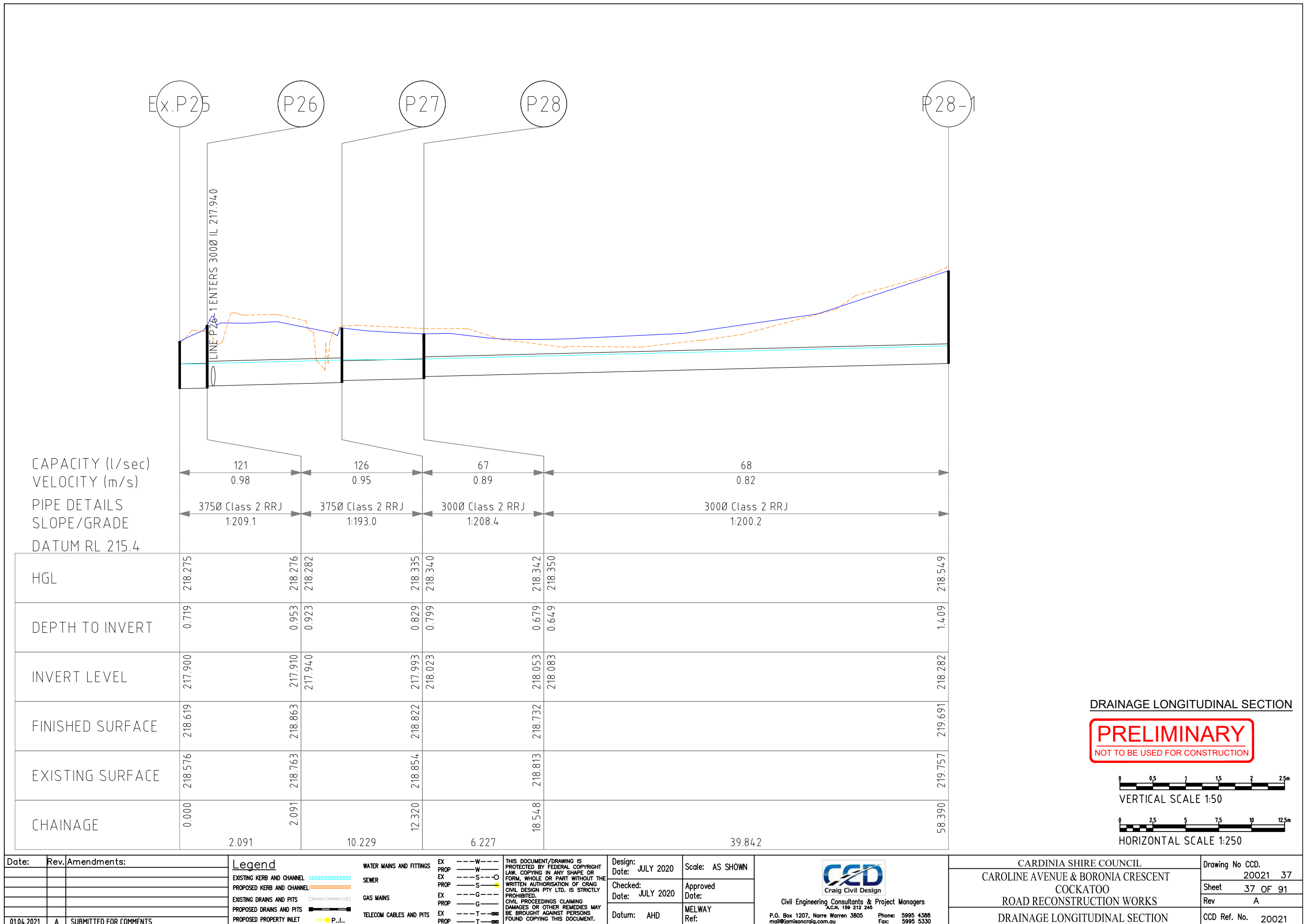
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 EX --- S ---
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 PROP --- T ---

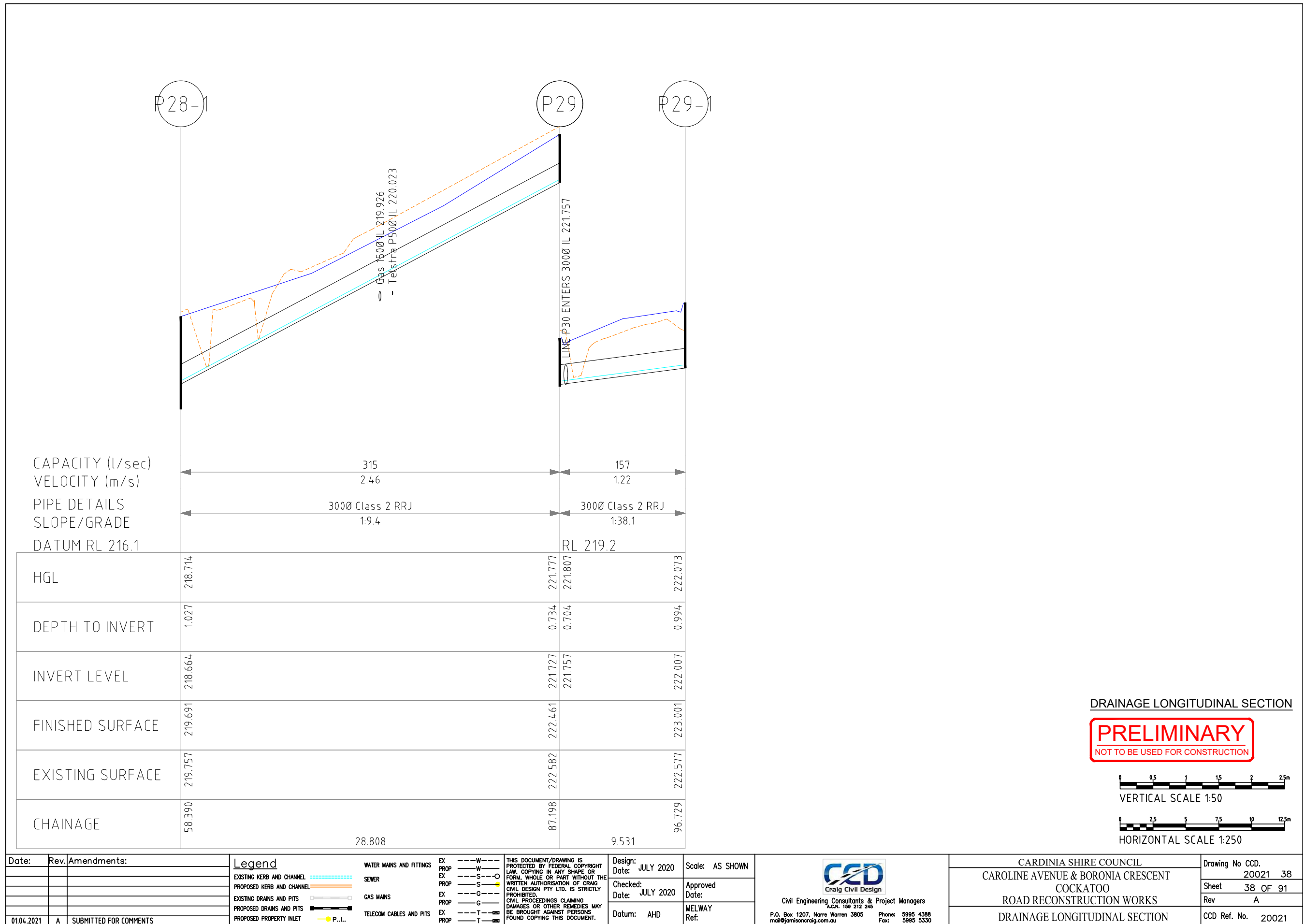
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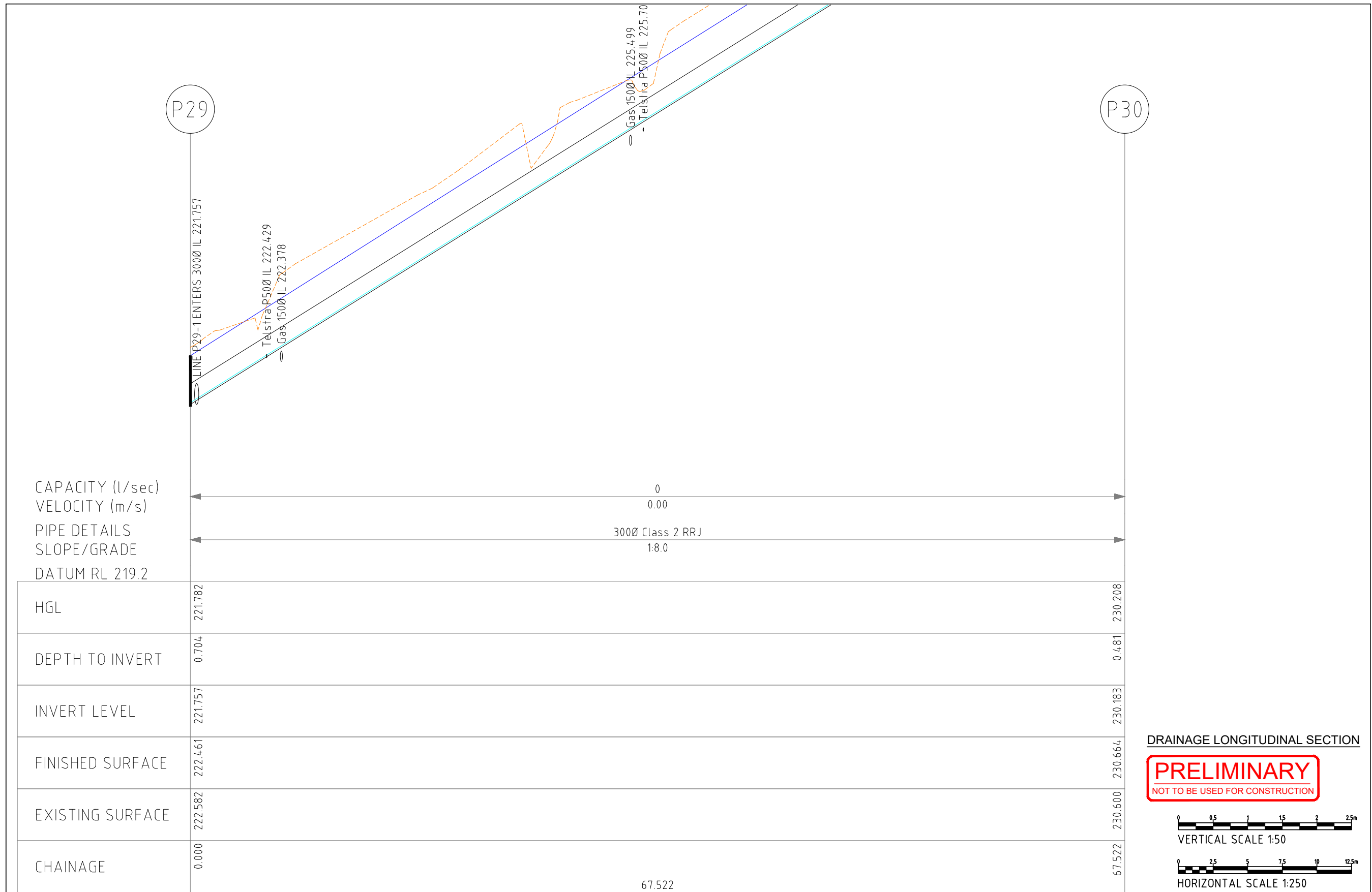
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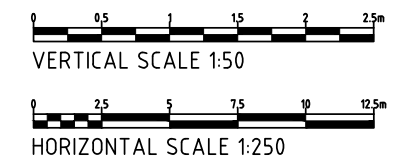




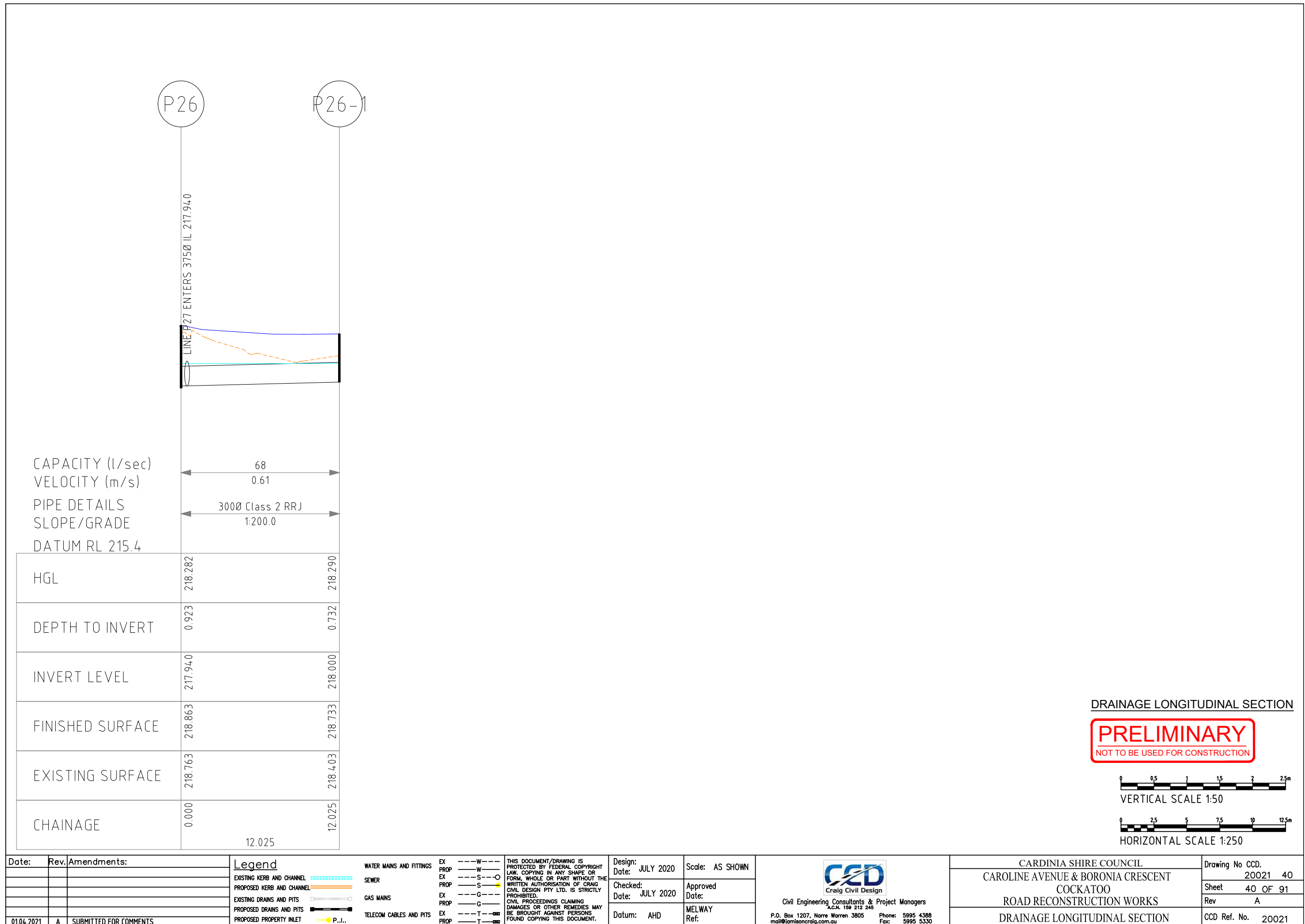


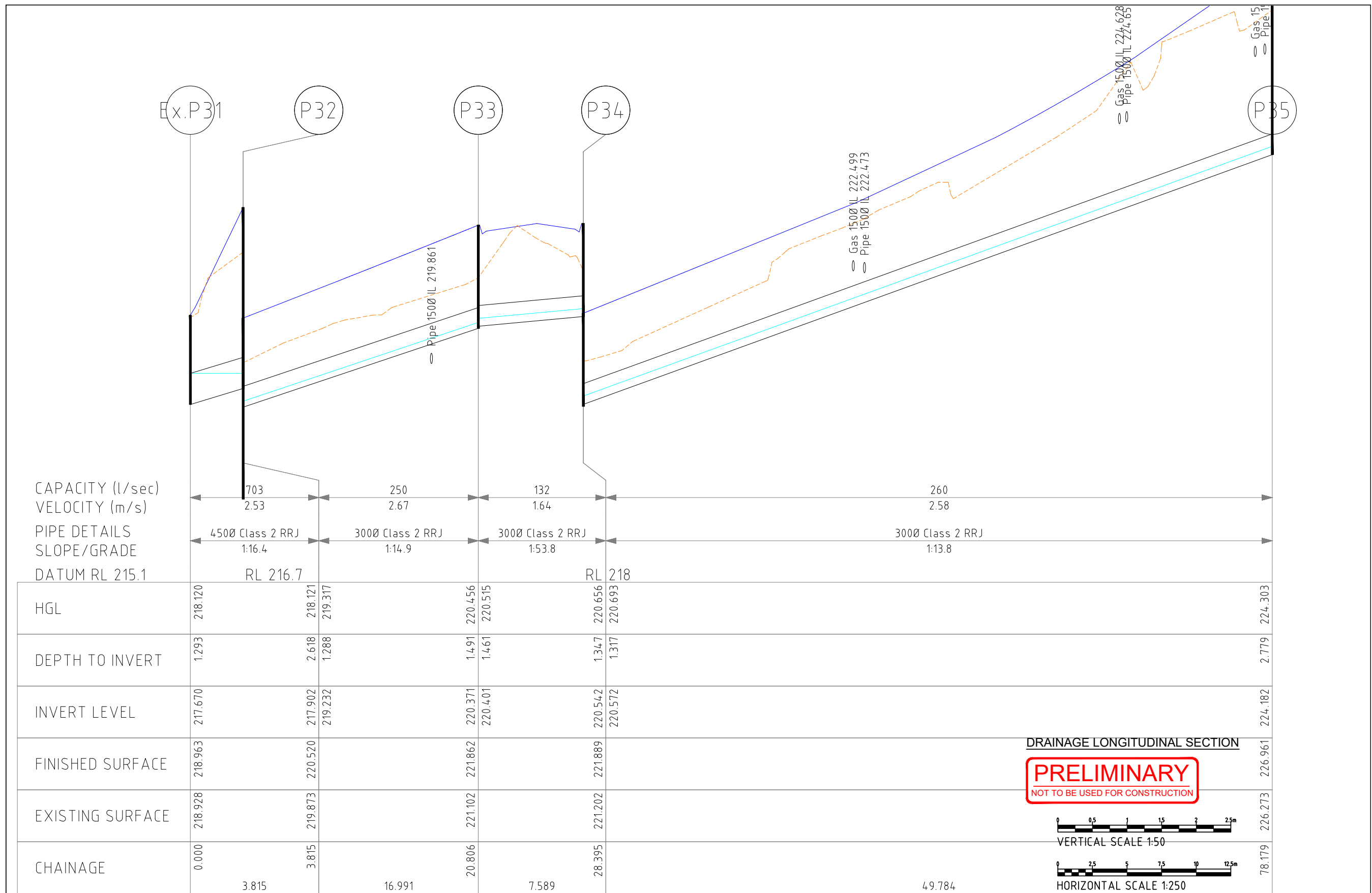
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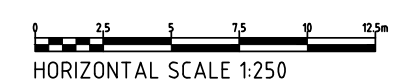
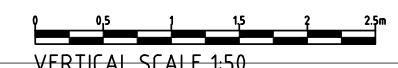
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01.04.2021	A	SUBMITTED FOR COMMENTS					JULY 2020 JULY 2020 AHD MELWAY	AS SHOWN			20021 39 39 OF 91 A 20021



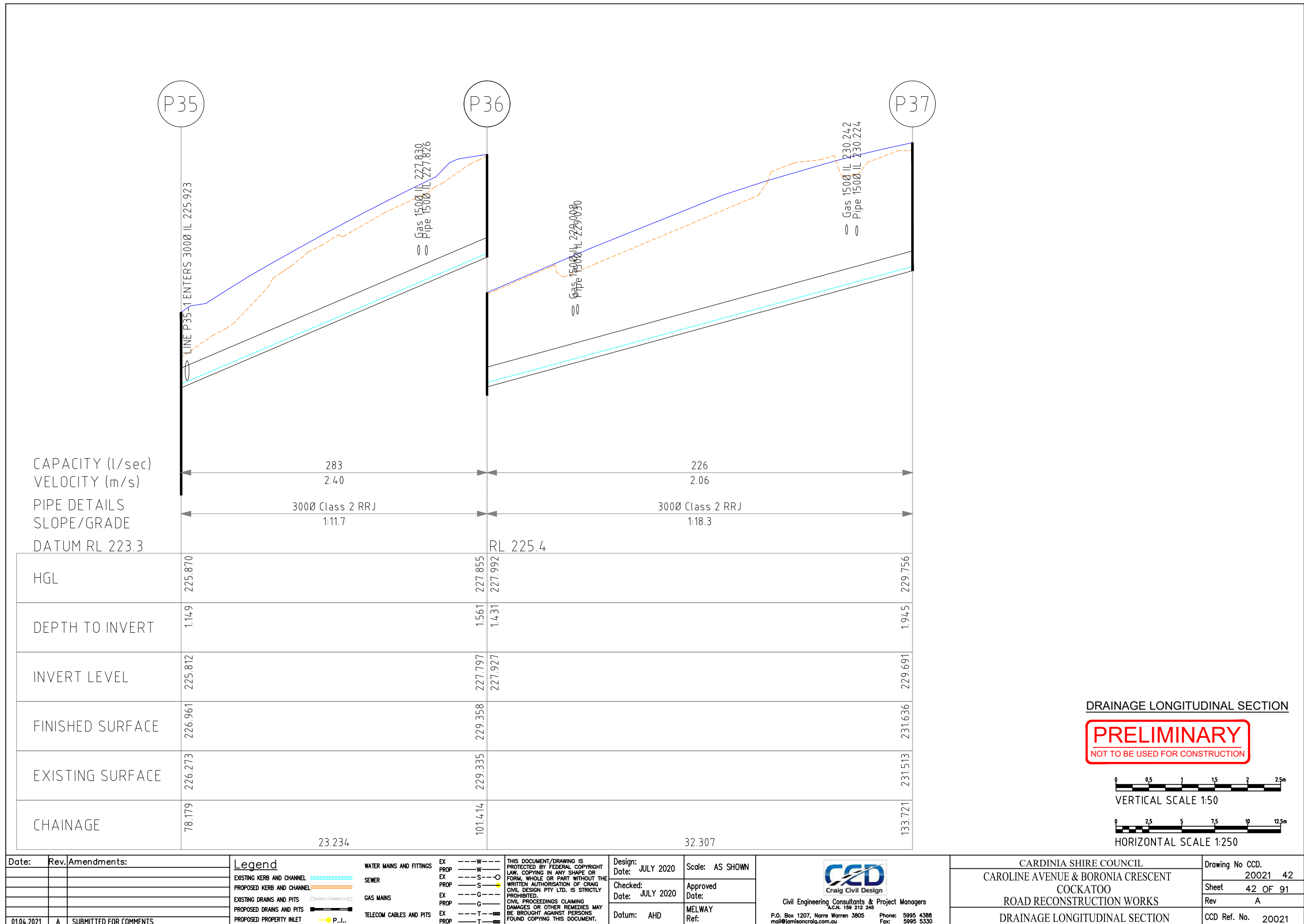


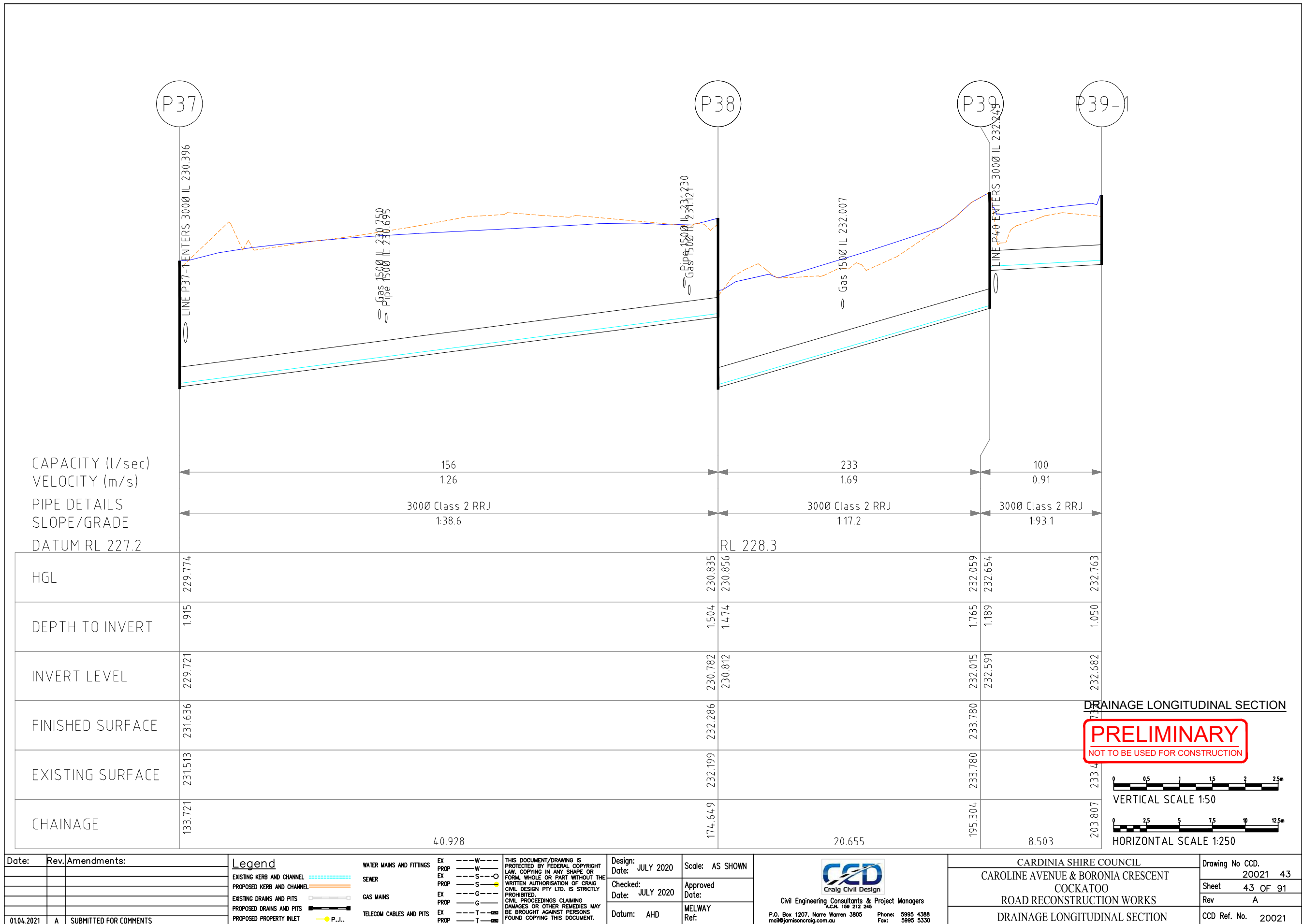
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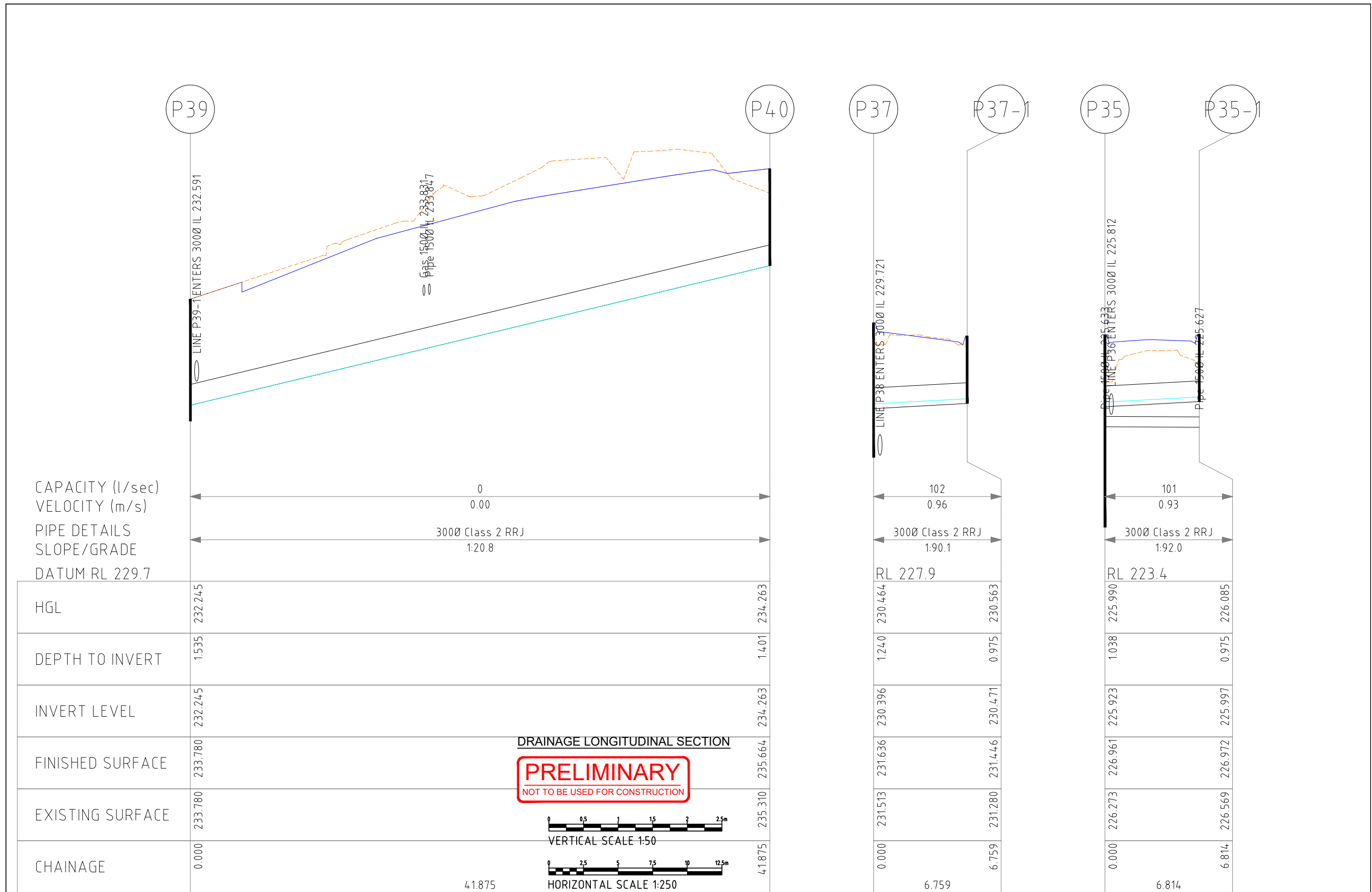
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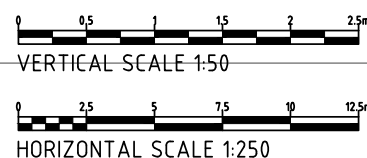
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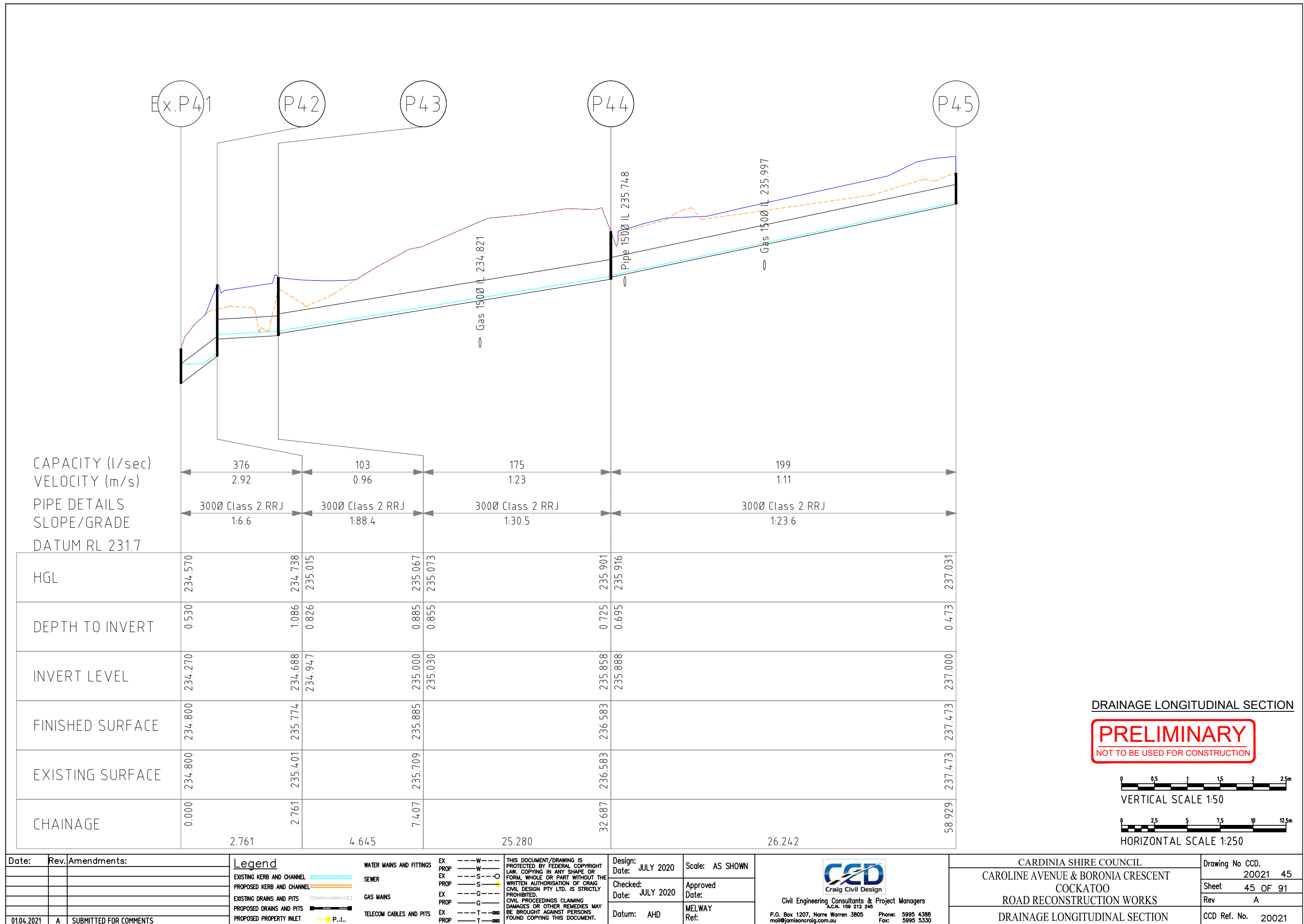
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WATER MAINS AND FITTINGS	---
SEWER	---
GAS MAINS	---
TELECOM CABLES AND PITS	---

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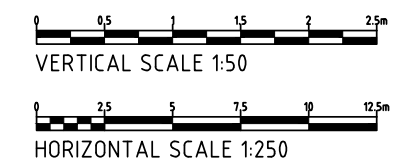
CARDINIA SHIRE COUNCIL
CAROLINE AVENUE & BORONIA CRESCENT
COCKATOO
ROAD RECONSTRUCTION WORKS
DRAINAGE LONGITUDINAL SECTION

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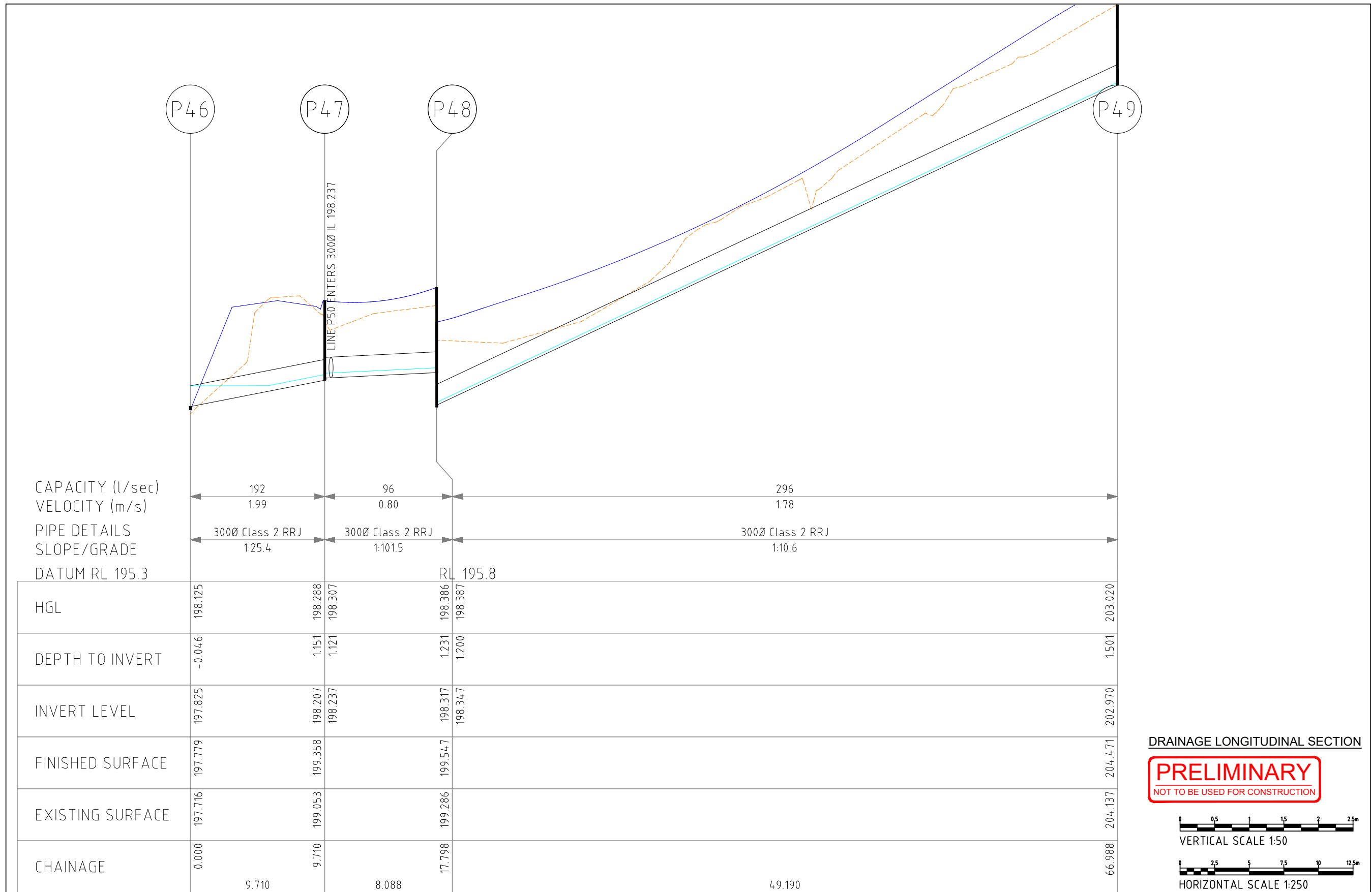
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WATER MAINS AND FITTINGS	---
SEWER	---
GAS MAINS	---
TELECOM CABLES AND PITS	---
EX	---
PROP	---

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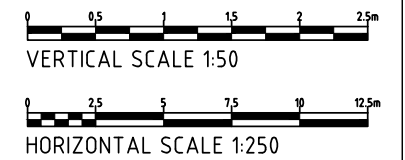
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CARDINIA SHIRE COUNCIL CAROLINE AVENUE & BORONIA CRESCENT COCKATOO ROAD RECONSTRUCTION WORKS DRAINAGE LONGITUDINAL SECTION	Drawing No. CCD. 20021 45 Sheet 45 OF 91 Rev A CCD Ref. No. 20021
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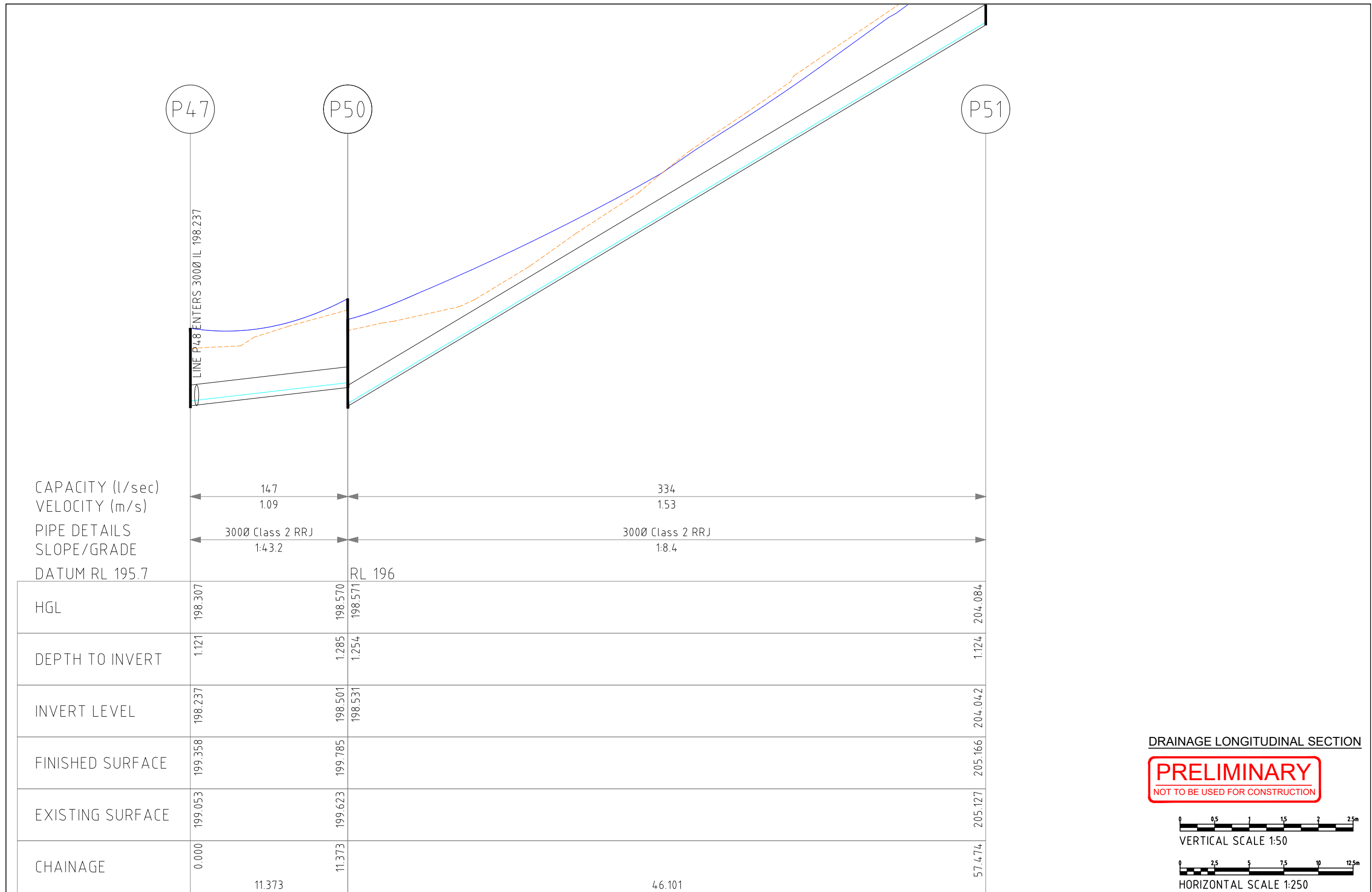


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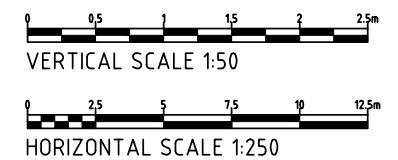


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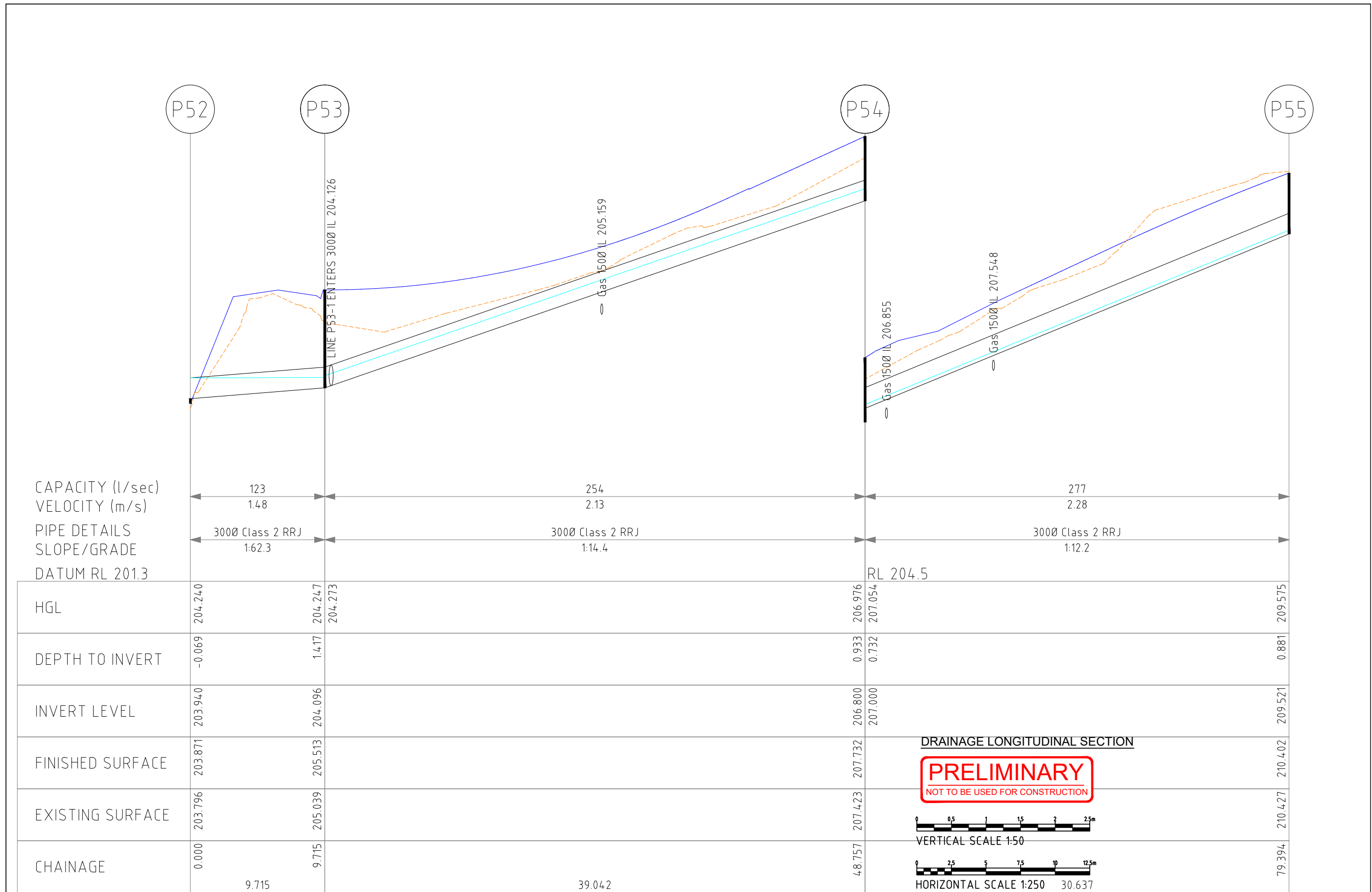
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PROPOSED PROPERTY INLET	---
WATER MAINS AND FITTINGS	---
SEWER	---
GAS MAINS	---
TELECOM CABLES AND PITS	---

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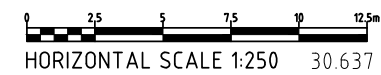
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CARDINIA SHIRE COUNCIL	Drawing No. CCD.
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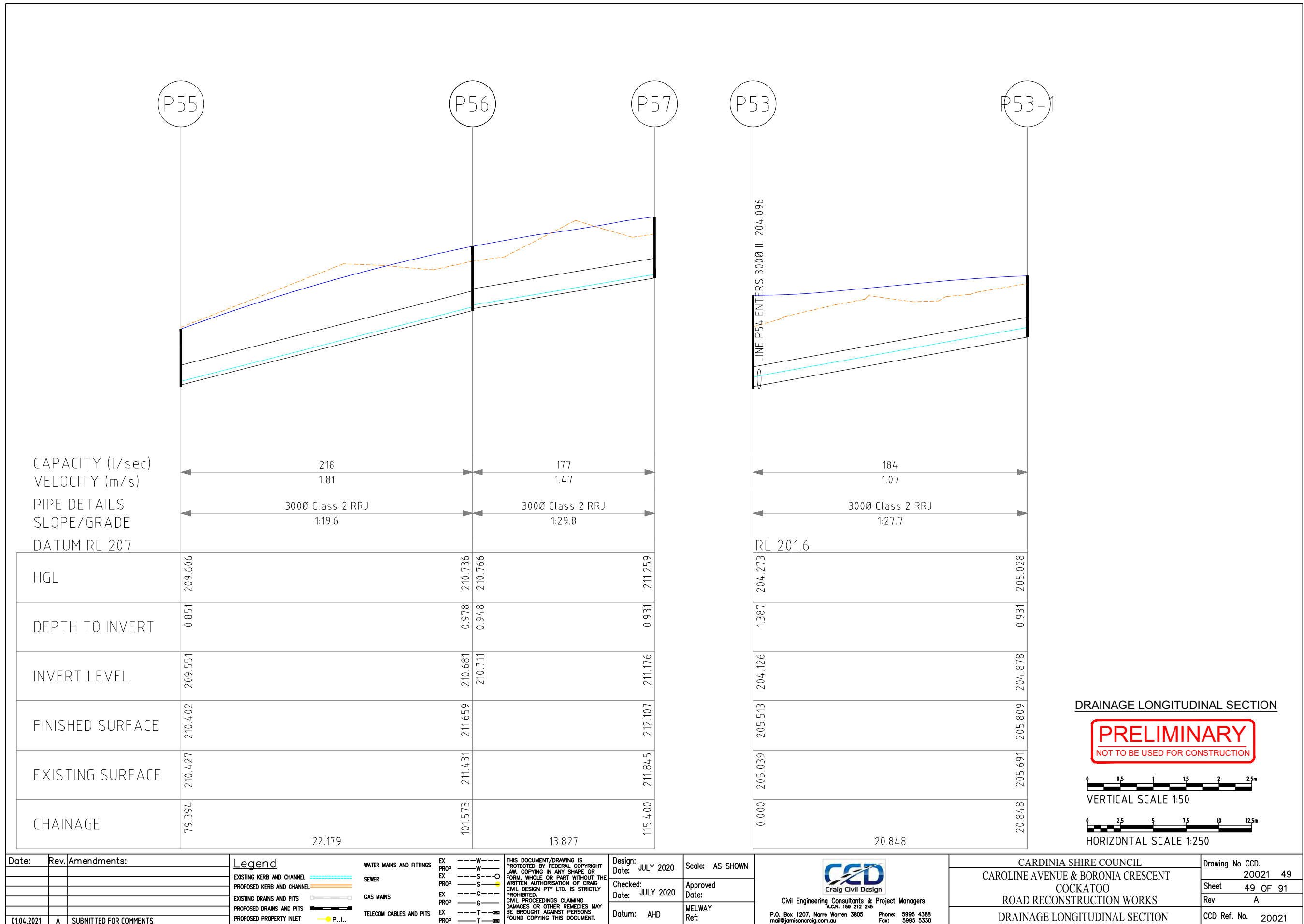
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GAS MAINS	---
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Pit Schedule - Drainage Network 2												
Pit No.	Pit Type	Pit Width	Pit Length	Outlet Diameter	Outlet Invert RL	Inlet Diameter	Inlet Invert RL	Pit Depth	Pit Lid Level	Easting	Northing	Comment
		(mm)	(mm)	(mm)	(m)	(mm)	(m)	(m)	(m)	(m)	(m)	
Ex.P4	EXISTING GRATED JUNCTION	750	900	Ex.900	Ex.185.37	Ex.900	186.240	2.194	188.434	367479.20	5800094.587	
Ex.P5	EXISTING GRATED JUNCTION	750	900	Ex.900	189.190	450	190.240	2.692	191.882	367538.31	5800085.644	
P6	SIDE ENTRY PIT	600	900	450	191.159	375	192.150	3.012	194.171	367539.20	5800077.958	
						225	193.461					
P7	SIDE ENTRY PIT	600	900	375	194.282	375	194.312	1.852	196.134	367556.74	5800077.155	
P6-1	SIDE ENTRY PIT	600	900	225	193.700			0.714	194.414	367540.02	5800072.966	
P8	SIDE ENTRY PIT	600	900	375	196.662	375	196.692	1.449	198.111	367579.22	5800078.777	
P9	JUNCTION PIT	600	900	375	197.441	375	197.471	1.223	198.664	367589.86	5800078.275	
P10	SIDE ENTRY PIT	600	900	375	197.910	300	197.940	1.411	199.321	367598.45	5800074.453	
P11	SIDE ENTRY PIT	600	900	300	198.598	300	199.828	2.212	200.810	367602.73	5800059.188	
P12	JUNCTION PIT	600	900	300	200.200	300	200.230	1.003	201.203	367600.59	5800053.501	
P13	SIDE ENTRY PIT	600	900	300	201.449	300	201.479	1.055	202.504	367601.35	5800039.886	
						300	201.479					
P14	SIDE ENTRY PIT	600	900	300	202.090	300	202.120	1.026	203.116	367611.68	5800038.402	
						225	202.120					
P23	SIDE ENTRY PIT	600	900	300	203.385	300	203.415	1.101	204.486	367601.97	5800022.150	
P15	SIDE ENTRY PIT	900	1000	300	206.746	300	206.776	1.135	207.881	367646.42	5799997.508	
						300	206.776					
P14-1	SIDE ENTRY PIT	600	900	225	202.317			1.671	203.989	367610.21	5800026.529	
P24	SIDE ENTRY PIT	600	900	300	206.012			0.931	206.943	367597.81	5799999.075	
P16	SIDE ENTRY PIT	600	900	300	210.540	300	210.570	1.118	211.658	367671.30	5799966.445	
P15-1	SIDE ENTRY PIT	600	900	300	206.861			1.022	207.883	367639.84	5799992.129	
P17	JUNCTION PIT	600	900	300	213.199	300	213.229	0.961	214.160	367685.64	5799948.385	
P18	SIDE ENTRY PIT	600	900	300	215.837	300	215.867	1.023	216.860	367697.89	5799929.725	
						300	215.867					
P19	SIDE ENTRY PIT	600	900	300	223.768	300	223.798	1.137	224.905	367738.26	5799859.698	
						300	223.798					
P18-1	SIDE ENTRY PIT	600	900	300	215.953			1.026	216.979	367691.10	5799924.525	
P20	SIDE ENTRY PIT	600	900	300	225.793	225	225.823	0.961	226.754	367747.17	5799844.811	
						300	225.823					
P19-1	SIDE ENTRY PIT	600	900	300	223.883			1.022	224.905	367730.89	5799855.458	
P21	JUNCTION PIT	600	900	225	225.917			0.854	226.771	367752.06	5799840.393	
P22	JUNCTION PIT	600	900	300	230.100			0.931	231.031	367771.86	5799801.616	

Pit Schedule - Drainage Network 3												
Pit No.	Pit Type	Pit Width	Pit Length	Outlet Diameter	Outlet Invert RL	Inlet Diameter	Inlet Invert RL	Pit Depth	Pit Lid Level	Easting	Northing	Comment
		(mm)	(mm)	(mm)	(m)	(mm)	(m)	(m)	(m)	(m)	(m)	
Ex.P25	EXISTING JUNCTION PIT	600	900		Ex. 375	375	217.900	0.719	218.619	367906.50	5799688.269	
P26	SIDE ENTRY PIT	600	900	375	217.910	300	217.940	0.953	218.863	367905.89	5799690.269	
						300	217.940					
P27	SIDE ENTRY PIT	600	900	300	217.993	300	218.023	0.829	218.822	367905.91	5799700.498	
P26-1	SIDE ENTRY PIT	600	900	300	218.000			0.732	218.733	367895.74	5799696.729	
P28	SIDE ENTRY PIT	600	900	300	218.053	300	218.083	0.679	218.732	367900.58	5799703.728	
P28	SIDE ENTRY PIT	600	900	300	218.282	300	218.664	1.409	219.691	367867.95	5799726.587	
P29	SIDE ENTRY PIT	600	900	300	221.727	300	221.757	0.734	222.461	367844.33	5799743.079	
						300	221.757					
P30	JUNCTION PIT	600	900	300	230.183			0.481	230.664	367789.26	5799782.151	
P29-1	SIDE ENTRY PIT	600	900	300	222.007			0.994	223.001	367835.90	5799738.623	

DRAINAGE PIT SCHEDULE

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Date: 01.04.2021	Rev: A	Amendments: SUBMITTED FOR COMMENTS	Legend EXISTING KERB AND CHANNEL PROPOSED KERB AND CHANNEL EXISTING DRAINS AND PITS PROPOSED DRAINS AND PITS PROPOSED PROPERTY INLET WATER MAINS AND FITTINGS SEWER GAS MAINS TELECOM CABLES AND PITS EX ---W--- PROP ---W--- EX ---S--- PROP ---S--- EX ---G--- PROP ---G--- EX ---T--- PROP ---T---	THIS DOCUMENT/DRAWING IS PROTECTED BY FEDERAL COPYRIGHT LAW. COPYING IN ANY SHAPE OR FORM, WHOLE OR PART WITHOUT THE WRITTEN AUTHORISATION OF CRAIG CIVIL DESIGN PTY LTD. IS STRICTLY PROHIBITED. CIVIL PROCEEDINGS CLAIMING DAMAGES OR OTHER REMEDIES MAY BE BROUGHT AGAINST PERSONS FOUND COPYING THIS DOCUMENT.	Design: JULY 2020 Date: JULY 2020 Checked: JULY 2020 Date: JULY 2020 Datum: AHD	Scale: AS SHOWN Approved Date: MELWAY Ref:	 Civil Engineering Consultants & Project Managers P.O. Box 1207, Narre Warren 3805 Phone: 5995 4388 Fax: 5995 5330	CARDINIA SHIRE COUNCIL CAROLINE AVENUE & BORONIA CRESCENT COCKATOO ROAD RECONSTRUCTION WORKS DRAINAGE PIT SCHEDULE	Drawing No. CCD. 20021 50 Sheet 50 OF 91 Rev A CCD Ref. No. 20021
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Pit Schedule - Drainage Alignment 1												
Pit No.	Pit Type	Pit Width	Pit Length	Outlet Diameter	Outlet Invert RL	Inlet Diameter	Inlet Invert RL	Pit Depth	Pit Lid Level	Easting	Northing	Comment
		(mm)	(mm)	(mm)	(m)	(mm)	(m)	(m)	(m)	(m)	(m)	
P1	EXISTING JUNCTION PIT	600	900		800x600 BC	300	198.760	1.266	200.026	367614.35	5800093.097	
P2	SIDE ENTRY PIT	600	900	300	198.810	300	198.840	1.160	199.970	367614.06	5800088.063	
P3	SIDE ENTRY PIT	600	900	300	198.923			1.022	199.945	367621.97	5800085.383	

Pit Schedule - Drainage Network 4												
Pit No.	Pit Type	Pit Width	Pit Length	Outlet Diameter	Outlet Invert RL	Inlet Diameter	Inlet Invert RL	Pit Depth	Pit Lid Level	Easting	Northing	Comment
		(mm)	(mm)	(mm)	(m)	(mm)	(m)	(m)	(m)	(m)	(m)	
Ex.P31	JUNCTION PIT			Ex. 525		450	217.670	1.293	218.963	367919.84	5799678.402	
P32	SIDE ENTRY PIT	600	900	450	217.902	300	219.232	2.618	220.520	367923.61	5799678.945	
P33	SIDE ENTRY PIT	600	900	300	220.371	300	220.401	1.491	221.862	367936.89	5799668.349	
P34	SIDE ENTRY PIT	600	900	300	220.542	300	220.572	1.347	221.889	367941.63	5799674.278	
P35	SIDE ENTRY PIT	600	900	300	224.182	300	225.812	2.779	226.961	367980.53	5799643.205	
						300	225.923					
P36	JUNCTION PIT	600	900	300	227.797	300	227.927	1.561	229.358	367996.15	5799626.012	
P35-1	SIDE ENTRY PIT	600	900	300	225.997			0.975	226.972	367977.32	5799637.195	
P37	SIDE ENTRY PIT	600	900	300	229.691	300	229.721	1.945	231.636	368012.35	5799598.055	
						300	230.396					
P38	JUNCTION PIT	600	900	300	230.782	300	230.812	1.504	232.286	368036.83	5799565.261	
P37-1	SIDE ENTRY PIT	600	900	300	230.471			0.975	231.446	368007.20	5799593.666	
P39	SIDE ENTRY PIT	600	900	300	232.015	300	232.245	1.765	233.780	368050.68	5799549.938	
						300	232.591					
P40	JUNCTION PIT	600	900	300	234.263			1.401	235.664	368077.43	5799517.721	
P39-1	SIDE ENTRY PIT	600	900	300	232.682			1.050	233.732	368048.65	5799541.683	

Pit Schedule - Drainage Network 5												
Pit No.	Pit Type	Pit Width	Pit Length	Outlet Diameter	Outlet Invert RL	Inlet Diameter	Inlet Invert RL	Pit Depth	Pit Lid Level	Easting	Northing	Comment
		(mm)	(mm)	(mm)	(m)	(mm)	(m)	(m)	(m)	(m)	(m)	
Ex.P41	EX. JUNCTION PIT	600	900	Ex. 300		300	234.270	0.530	234.800	368087.52	5799494.021	
P42	SIDE ENTRY PIT	600	900	300	234.688	300	234.947	1.086	235.774	368089.55	5799495.886	
P43	JUNCTION PIT	600	900	300	235.000	300	235.030	0.885	235.885	368092.96	5799499.038	
P44	JUNCTION PIT	600	900	300	235.858	300	235.888	0.725	236.583	368112.31	5799482.759	
P45	JUNCTION PIT	600	900	300	237.000			0.473	237.473	368131.73	5799465.109	

DRAINAGE PIT SCHEDULE

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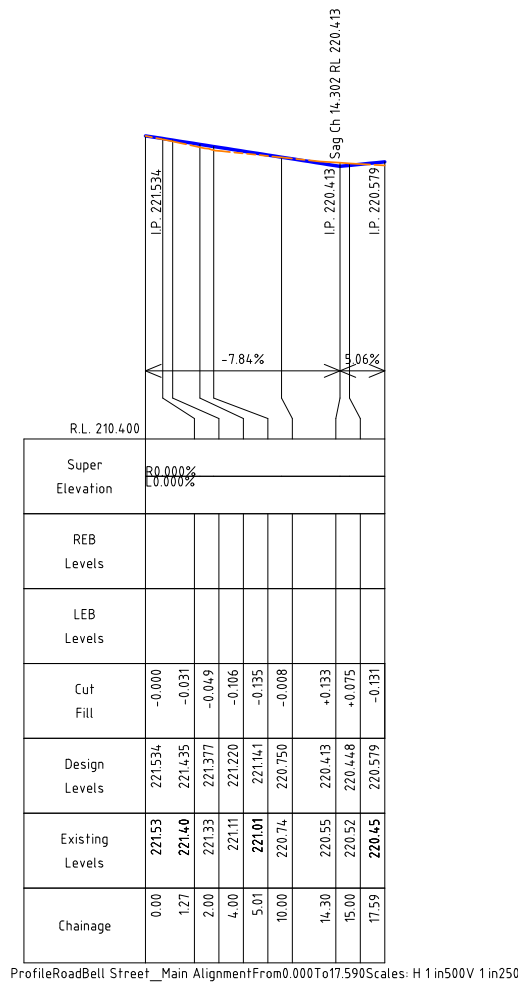
Pit Schedule - Drainage Network 6												
Pit No.	Pit Type	Pit Width	Pit Length	Outlet Diameter	Outlet Invert RL	Inlet Diameter	Inlet Invert RL	Pit Depth	Pit Lid Level	Easting	Northing	Comment
		(mm)	(mm)	(mm)	(m)	(mm)	(m)	(m)	(m)	(m)	(m)	
P46	CULVERT WITH HEADWALL					300	197.825			367580.24	5799905.960	
P47	SIDE ENTRY PIT	600	900	300	198.207	300	198.237	1.151	199.358	367589.15	5799909.816	
						300	198.237					
P50	SIDE ENTRY PIT	600	900	300	198.501	300	198.531	1.285	199.785	367587.98	5799921.129	
P48	JUNCTION PIT	600	900	300	198.317	300	198.347	1.231	199.547	367591.77	5799902.166	
P51	SIDE ENTRY PIT	600	900	300	204.042			1.124	205.166	367593.47	5799966.901	
P49	SIDE ENTRY PIT	600	900	300	202.970			1.501	204.471	367613.12	5799857.848	

Pit Schedule - Drainage Network 7												
Pit No.	Pit Type	Pit Width	Pit Length	Outlet Diameter	Outlet Invert RL	Inlet Diameter	Inlet Invert RL	Pit Depth	Pit Lid Level	Easting	Northing	Comment
		(mm)	(mm)	(mm)	(m)	(mm)	(m)	(m)	(m)	(m)	(m)	
P52	CULVERT WITH HEADWALL AT END					300	203.940			367632.07	5799801.596	
P53	SIDE ENTRY PIT	600	900	300	204.096	300	204.126	1.417	205.513	367641.09	5799805.222	
						300	204.096					
P53-1	SIDE ENTRY PIT	600	900	300	204.878			0.931	205.809	367631.84	5799823.907	
P54	JUNCTION PIT	600	900	300	206.800	300	207.000	0.933	207.732	367658.42	5799770.237	
P55	SIDE ENTRY PIT	600	900	300	209.521	300	209.551	0.881	210.402	367670.11	5799741.918	
P56	SIDE ENTRY PIT	600	900	300	210.681	300	210.711	0.978	211.659	367680.50	5799722.324	
P57	JUNCTION PIT	600	900	300	211.176			0.931	212.107	367689.08	5799711.478	

DRAINAGE PIT SCHEDULE

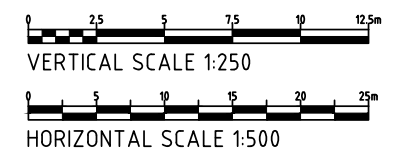
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Date: 01.04.2021	Rev: A	Amendments: SUBMITTED FOR COMMENTS	Legend EXISTING KERB AND CHANNEL PROPOSED KERB AND CHANNEL EXISTING DRAINS AND PITS PROPOSED DRAINS AND PITS PROPOSED PROPERTY INLET P.I.L.	WATER MAINS AND FITTINGS SEWER GAS MAINS TELECOM CABLES AND PITS	EX ---W--- PROP ---W--- EX ---S--- PROP ---S--- EX ---G--- PROP ---G--- EX ---T--- PROP ---T---	THIS DOCUMENT/DRAWING IS PROTECTED BY FEDERAL COPYRIGHT LAW. COPYING IN ANY SHAPE OR FORM, WHOLE OR PART WITHOUT THE WRITTEN AUTHORISATION OF CRAIG CIVIL DESIGN PTY LTD. IS STRICTLY PROHIBITED. CIVIL PROCEEDINGS CLAIMING DAMAGES OR OTHER REMEDIES MAY BE BROUGHT AGAINST PERSONS FOUND COPYING THIS DOCUMENT.	Design: JULY 2020 Date: JULY 2020 Checked: JULY 2020 Date: JULY 2020 Datum: AHD	Scale: AS SHOWN Approved Date: MELWAY Ref:	 Civil Engineering Consultants & Project Managers P.O. Box 1207, Narre Warren 3805 Phone: 5995 4388 Fax: 5995 5330 Email: mail@jamisoncraig.com.au	CARDINIA SHIRE COUNCIL CAROLINE AVENUE & BORONIA CRESCENT COCKATOO ROAD RECONSTRUCTION WORKS DRAINAGE PIT SCHEDULE	Drawing No. CCD. 20021 52 Sheet 52 OF 91 Rev A CCD Ref. No. 20021
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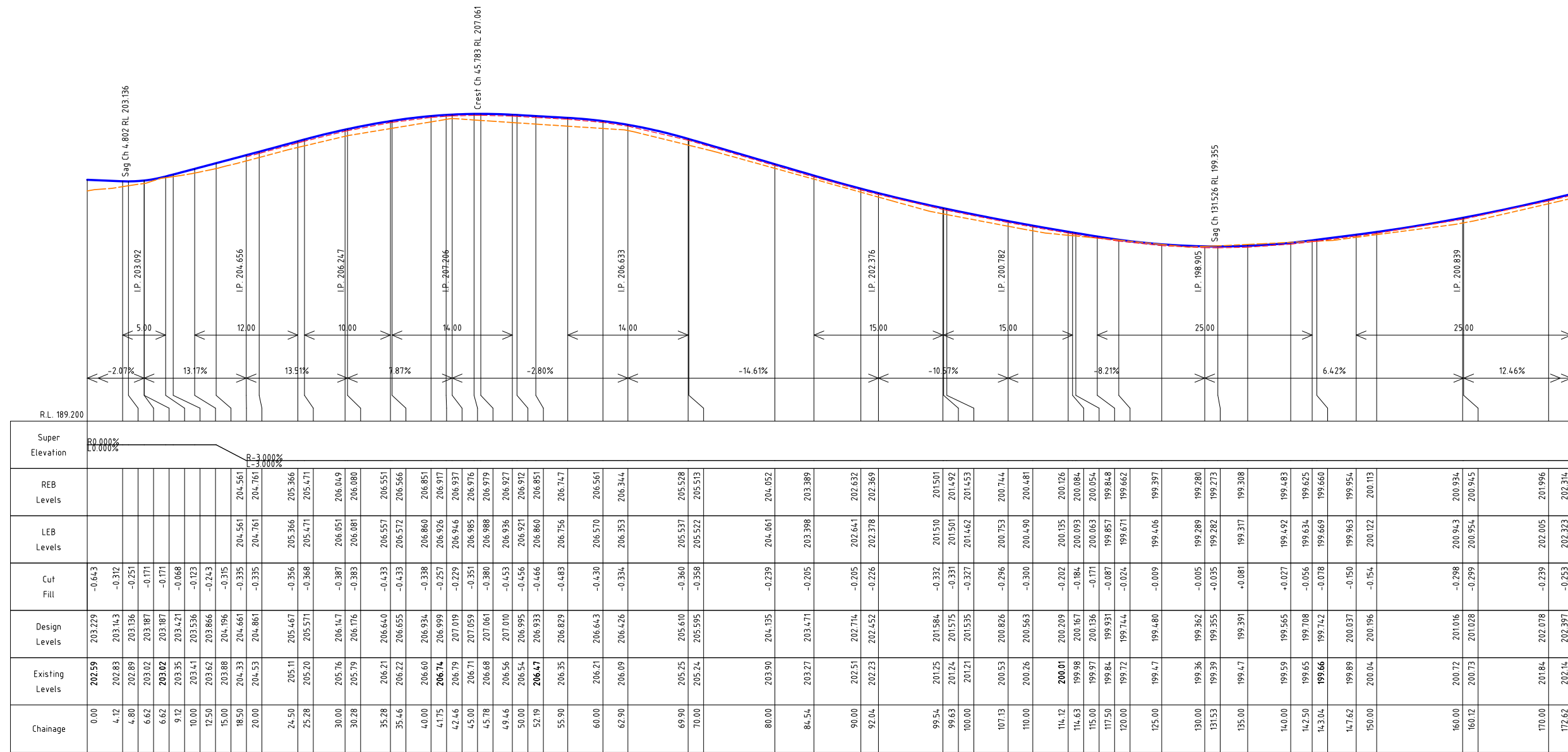


BELL ST LONGITUDINAL SECTION

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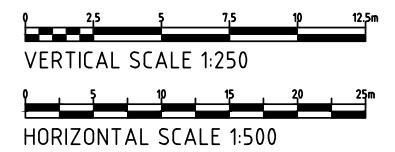
Date: 01.04.2021	Rev: A	Amendments: SUBMITTED FOR COMMENTS	Legend EXISTING KERB AND CHANNEL PROPOSED KERB AND CHANNEL EXISTING DRAINS AND PITS PROPOSED DRAINS AND PITS PROPOSED PROPERTY INLET	WATER MAINS AND FITTINGS SEWER GAS MAINS TELECOM CABLES AND PITS	EX ---W--- PROP ---W--- EX ---S--- PROP ---S--- EX ---G--- PROP ---G--- EX ---T--- PROP ---T---	THIS DOCUMENT/DRAWING IS PROTECTED BY FEDERAL COPYRIGHT LAW. COPYING IN ANY SHAPE OR FORM, WHOLE OR PART WITHOUT THE WRITTEN AUTHORISATION OF CRAIG CIVIL DESIGN PTY LTD. IS STRICTLY PROHIBITED. CIVIL PROCEEDINGS CLAIMING DAMAGES OR OTHER REMEDIES MAY BE BROUGHT AGAINST PERSONS FOUND COPYING THIS DOCUMENT.	Design: JULY 2020 Date: JULY 2020 Checked: JULY 2020 Date: JULY 2020 Datum: AHD	Scale: AS SHOWN Approved Date: MELWAY Ref:	 Civil Engineering Consultants & Project Managers P.O. Box 1207, Narre Warren 3805 Phone: 5995 4388 Fax: 5995 5330	CARDINIA SHIRE COUNCIL CAROLINE AVENUE & BORONIA CRESCENT COCKATOO ROAD RECONSTRUCTION WORKS BELL ST LONGITUDINAL SECTION	Drawing No. CCD. 20021 53 Sheet 53 OF 91 Rev A CCD Ref. No. 20021
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ProfileRoadBoronia Cresc_AlignmentFrom0.000To172.623Scales: H 1 in500V 1 in250

BORONIA CRESCENT LONGITUDINAL SECTION

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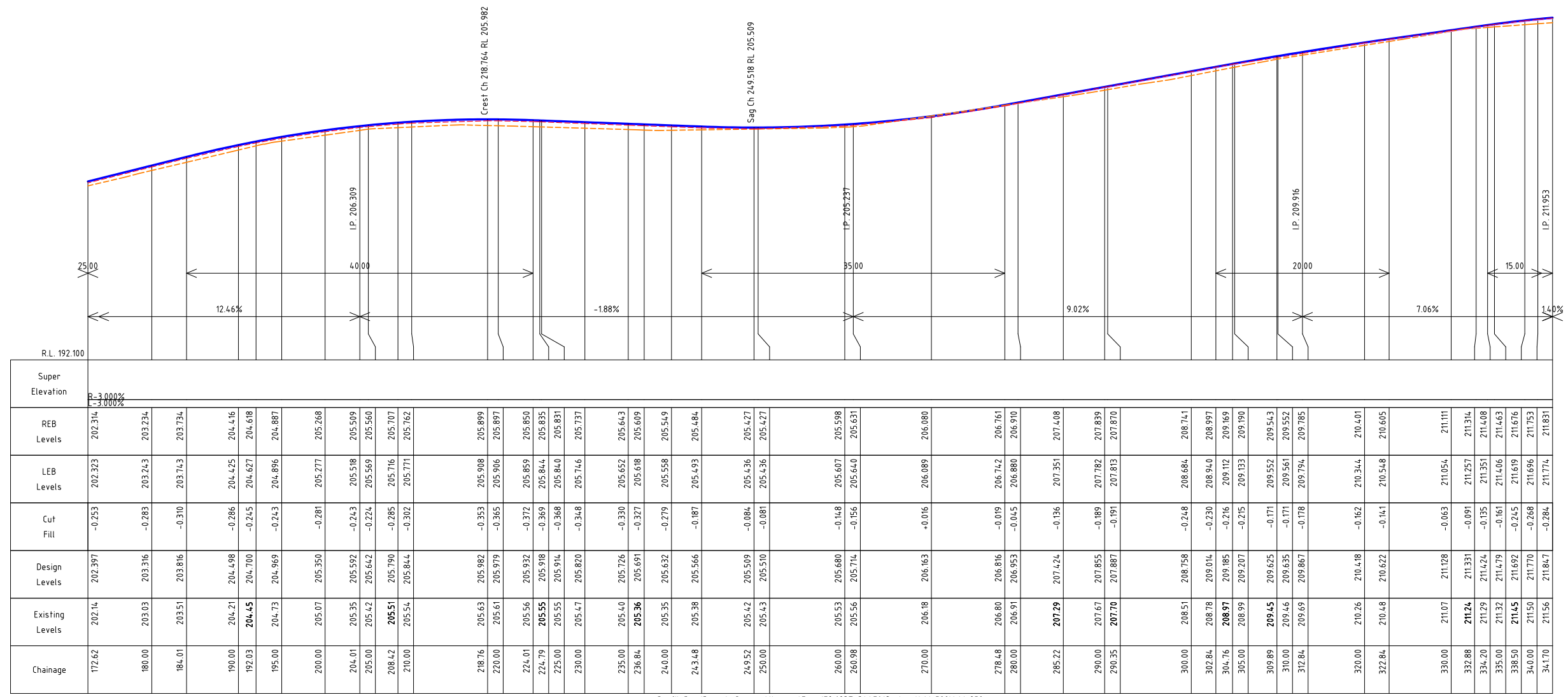
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01.04.2021	A	SUBMITTED FOR COMMENTS

Legend	
EXISTING KERB AND CHANNEL	WATER MAINS AND FITTINGS
PROPOSED KERB AND CHANNEL	SEWER
EXISTING DRAINS AND PITS	GAS MAINS
PROPOSED DRAINS AND PITS	TELECOM CABLES AND PITS
PROPOSED PROPERTY INLET	P.I.

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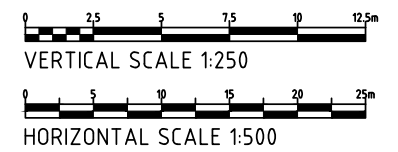
CARDINIA SHIRE COUNCIL	Drawing No. CCD.
CAROLINE AVENUE & BORONIA CRESCENT	20021 54
COCKATOO	Sheet 54 OF 91
ROAD RECONSTRUCTION WORKS	Rev A
BORONIA CRESC LONGITUDINAL SECTION	CCD Ref. No. 20021



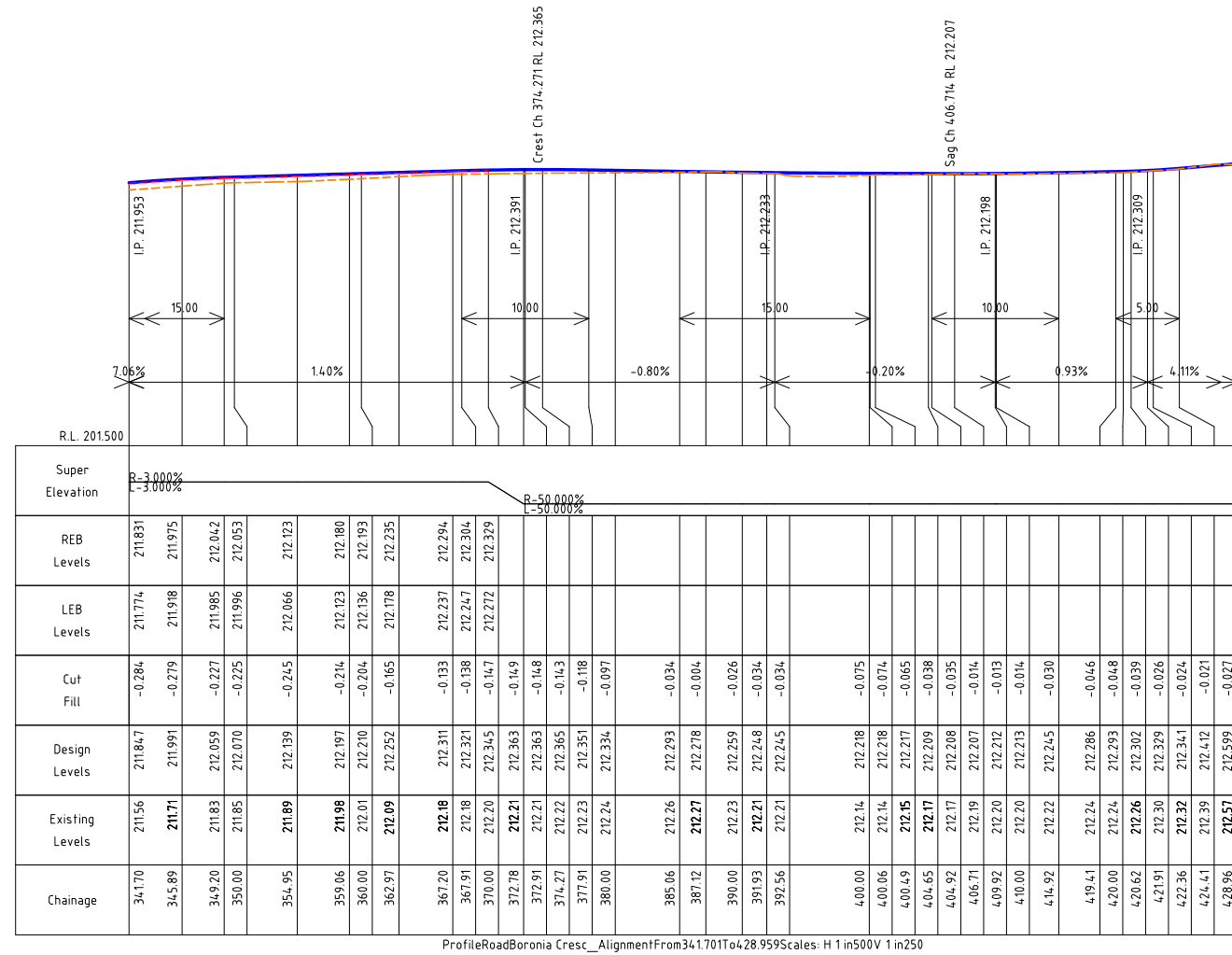
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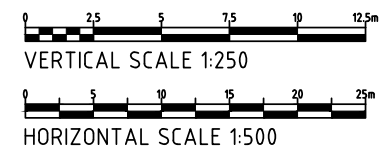
Date: 01.04.2021	Rev: A	Amendments: SUBMITTED FOR COMMENTS	Legend EXISTING KERB AND CHANNEL PROPOSED KERB AND CHANNEL EXISTING DRAINS AND PITS PROPOSED DRAINS AND PITS PROPOSED PROPERTY INLET P.I.	WATER MAINS AND FITTINGS SEWER GAS MAINS TELECOM CABLES AND PITS	EX --- W --- PROP --- W --- EX --- S --- PROP --- S --- EX --- G --- PROP --- G --- EX --- T --- PROP --- T ---	THIS DOCUMENT/DRAWING IS PROTECTED BY FEDERAL COPYRIGHT LAW. COPYING IN ANY SHAPE OR FORM, WHOLE OR PART WITHOUT THE WRITTEN AUTHORISATION OF CRAIG CIVIL DESIGN PTY LTD. IS STRICTLY PROHIBITED. CIVIL PROCEEDINGS CLAIMING DAMAGES OR OTHER REMEDIES MAY BE BROUGHT AGAINST PERSONS FOUND COPYING THIS DOCUMENT.	Design: JULY 2020 Date: JULY 2020 Checked: JULY 2020 Date: JULY 2020 Datum: AHD	Scale: AS SHOWN Approved Date: MELWAY Ref:	 Civil Engineering Consultants & Project Managers P.O. Box 1207, Narre Warren 3805 Phone: 5995 4388 Fax: 5995 5330	CARDINIA SHIRE COUNCIL CAROLINE AVENUE & BORONIA CRESCENT COCKATOO ROAD RECONSTRUCTION WORKS BORONIA CRESC LONGITUDINAL SECTION	Drawing No. CCD. 20021 55 Sheet 55 OF 91 Rev A CCD Ref. No. 20021
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Legend	
EXISTING KERB AND CHANNEL	WATER MAINS AND FITTINGS
PROPOSED KERB AND CHANNEL	SEWER
EXISTING DRAINS AND PITS	GAS MAINS
PROPOSED DRAINS AND PITS	TELECOM CABLES AND PITS
PROPOSED PROPERTY INLET	P.I.

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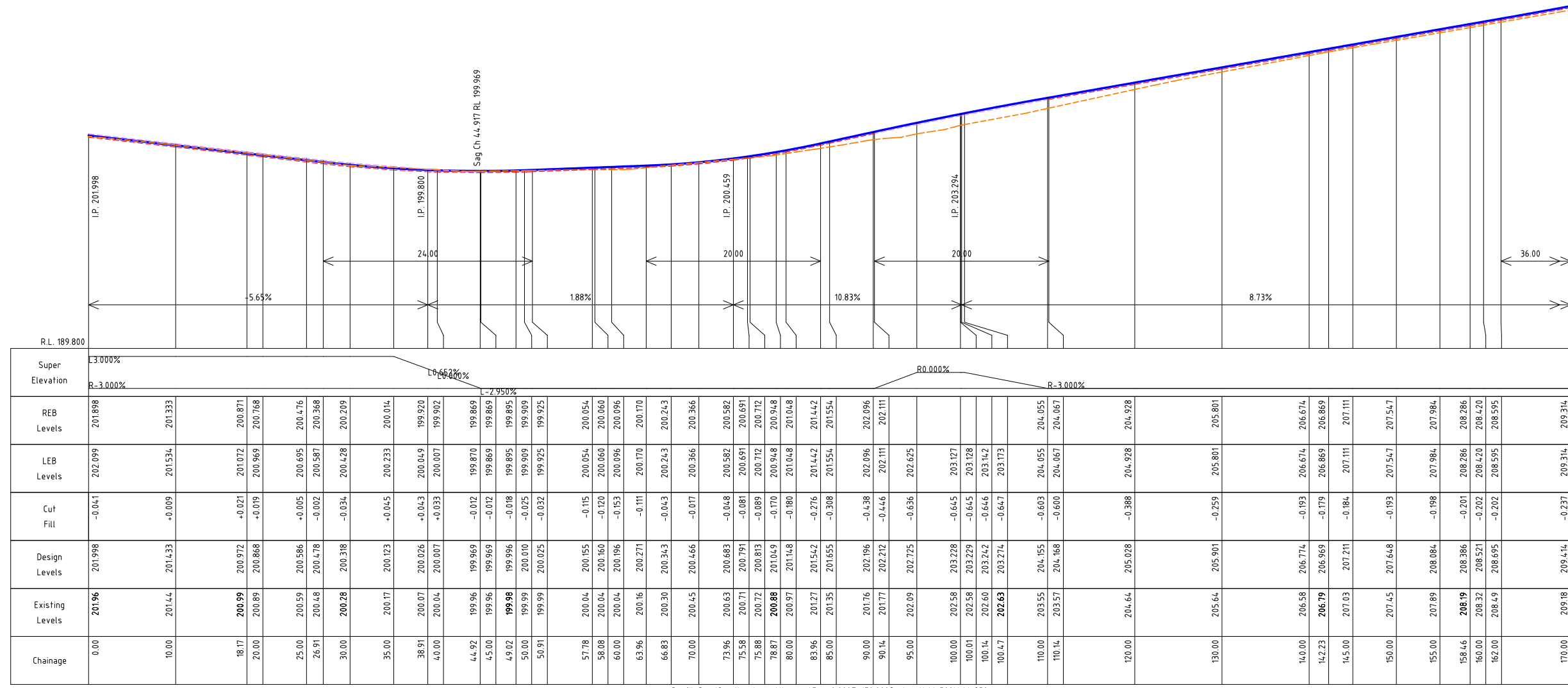
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Phone: 5995 4388
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CARDINIA SHIRE COUNCIL	
CAROLINE AVENUE & BORONIA CRESCENT	
COCKATOO	
ROAD RECONSTRUCTION WORKS	
BORONIA CRESC LONGITUDINAL SECTION	

Drawing No	CCD. 20021 56
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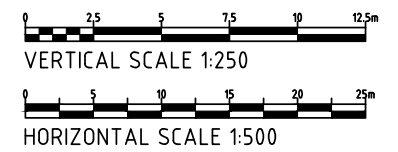


Chainage	Existing Levels	Design Levels	Cut Fill	LEB Levels	REB Levels	Super Elevation
0.00	201.96	201.998	-0.041	202.099	201.898	L=3.000%
10.00	201.44	201.433	+0.009	201.534	201.333	R=3.000%
18.17	200.99	200.972	+0.021	201.072	200.871	L=2.950%
20.00	200.89	200.868	+0.019	200.969	200.768	R=3.000%
25.00	200.59	200.586	+0.005	200.695	200.476	
26.91	200.48	200.478	-0.002	200.587	200.368	
30.00	200.28	200.318	-0.034	200.428	200.209	
35.00	200.17	200.123	+0.045	200.233	200.014	
38.91	200.07	200.026	+0.043	200.049	199.970	
40.00	200.04	200.007	+0.033	200.007	199.902	
44.92	199.96	199.969	-0.012	199.870	199.869	
45.00	199.96	199.969	-0.012	199.869	199.869	
49.02	199.98	199.996	-0.018	199.895	199.895	
50.00	199.99	200.010	-0.025	199.909	199.909	
50.91	199.99	200.025	-0.032	199.925	199.925	
57.78	200.04	200.155	-0.115	200.054	200.054	
58.08	200.04	200.160	-0.120	200.060	200.060	
60.00	200.04	200.196	-0.153	200.096	200.096	
63.96	200.16	200.271	-0.111	200.170	200.170	
66.83	200.30	200.343	-0.043	200.243	200.243	
70.00	200.45	200.466	-0.017	200.366	200.366	
73.96	200.63	200.683	-0.048	200.582	200.582	
75.58	200.71	200.791	-0.081	200.691	200.691	
75.88	200.72	200.813	-0.089	200.712	200.712	
78.87	200.88	201.049	-0.170	200.948	200.948	
80.00	200.97	201.148	-0.180	201.048	201.048	
83.96	201.27	201.542	-0.276	201.442	201.442	
85.00	201.35	201.655	-0.308	201.554	201.554	
90.00	201.76	202.196	-0.438	202.096	202.096	
90.14	201.77	202.212	-0.446	202.111	202.111	
95.00	202.09	202.725	-0.636	202.625		
100.00	202.58	203.228	-0.645	203.127		
100.01	202.58	203.229	-0.645	203.128		
100.14	202.60	203.242	-0.646	203.142		
100.47	202.63	203.274	-0.647	203.173		
110.00	203.55	204.155	-0.603	204.055	204.055	
110.14	203.57	204.168	-0.600	204.067	204.067	
120.00	204.64	205.028	-0.388	204.928	204.928	
130.00	205.64	205.901	-0.259	205.801	205.801	
140.00	206.58	206.774	-0.193	206.674	206.674	
142.23	206.79	206.969	-0.179	206.869	206.869	
145.00	207.03	207.211	-0.184	207.111	207.111	
150.00	207.45	207.648	-0.193	207.547	207.547	
155.00	207.89	208.084	-0.198	207.984	207.984	
158.46	208.19	208.386	-0.201	208.286	208.286	
160.00	208.32	208.521	-0.202	208.420	208.420	
162.00	208.49	208.695	-0.202	208.595	208.595	
170.00	209.18	209.414	-0.237	209.314	209.314	

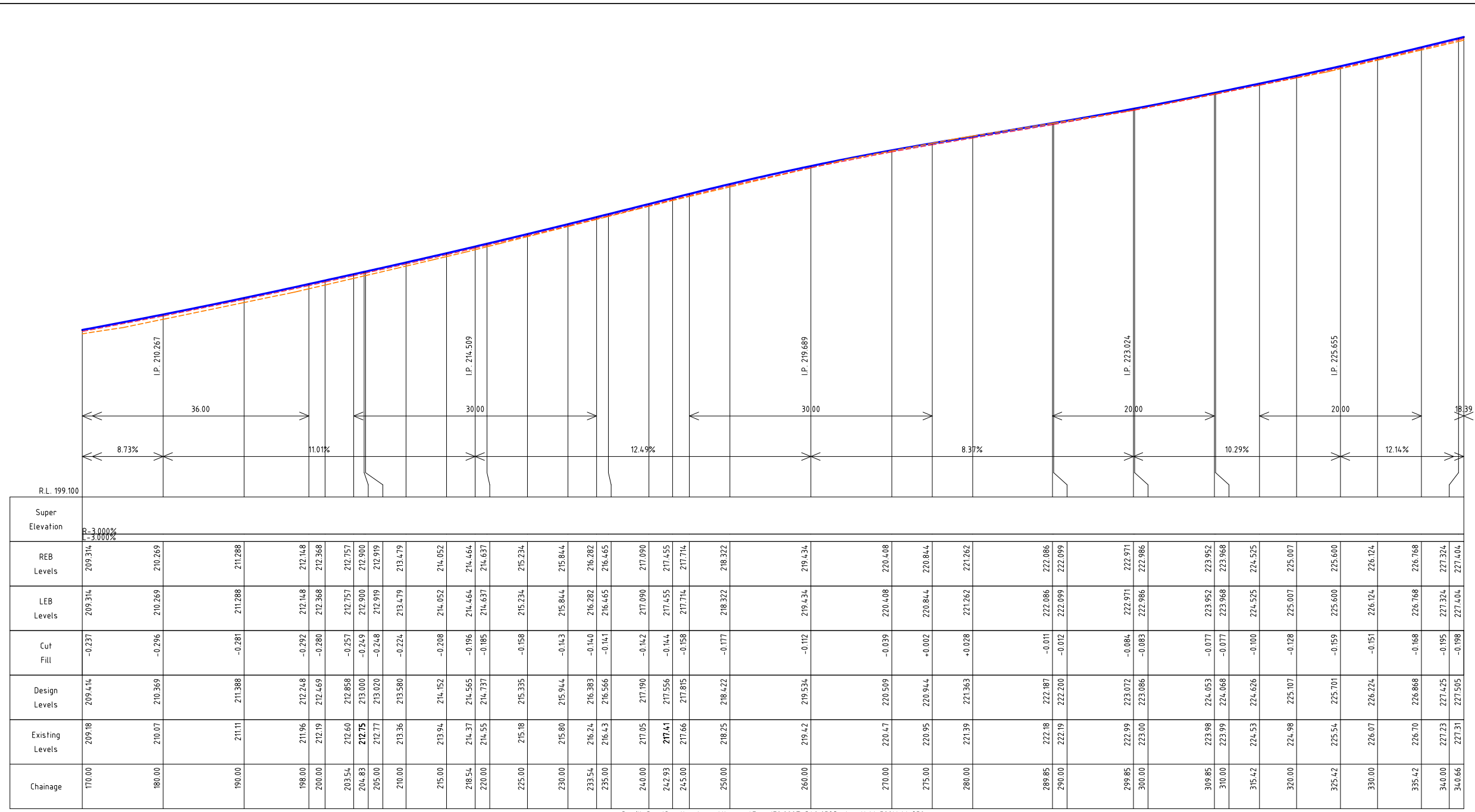
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CAROLINE AVENUE LONGITUDINAL SECTION

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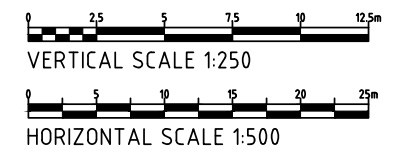
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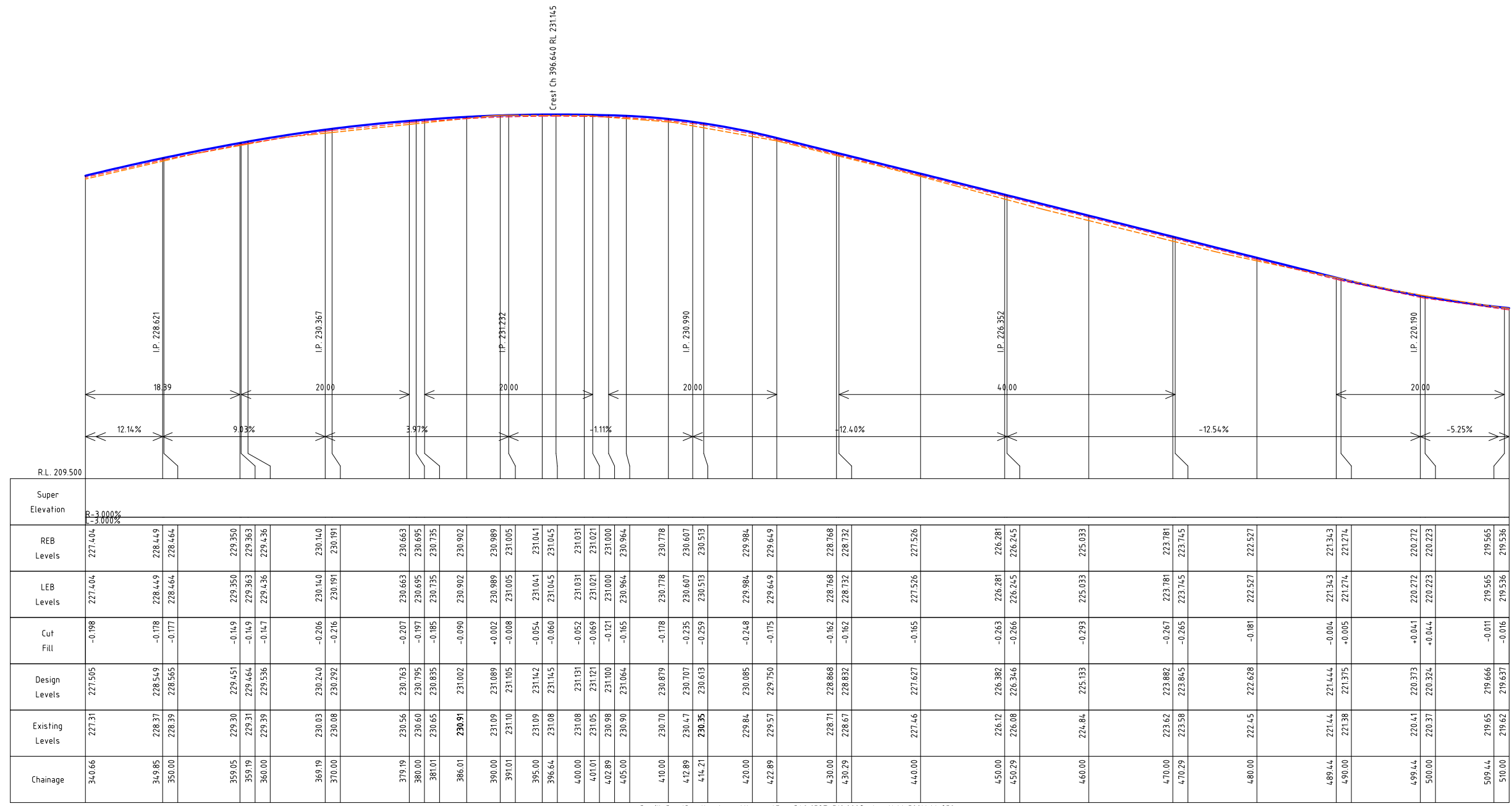
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CAROLINE AVENUE LONGITUDINAL SECTION

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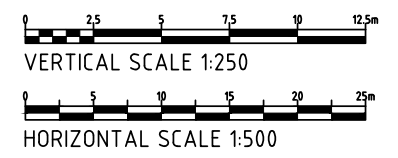
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Profile Road Caroline Ave Alignment From 340.659 To 510.000 Scales: H 1 in 500 V 1 in 250

CAROLINE AVENUE LONGITUDINAL SECTION

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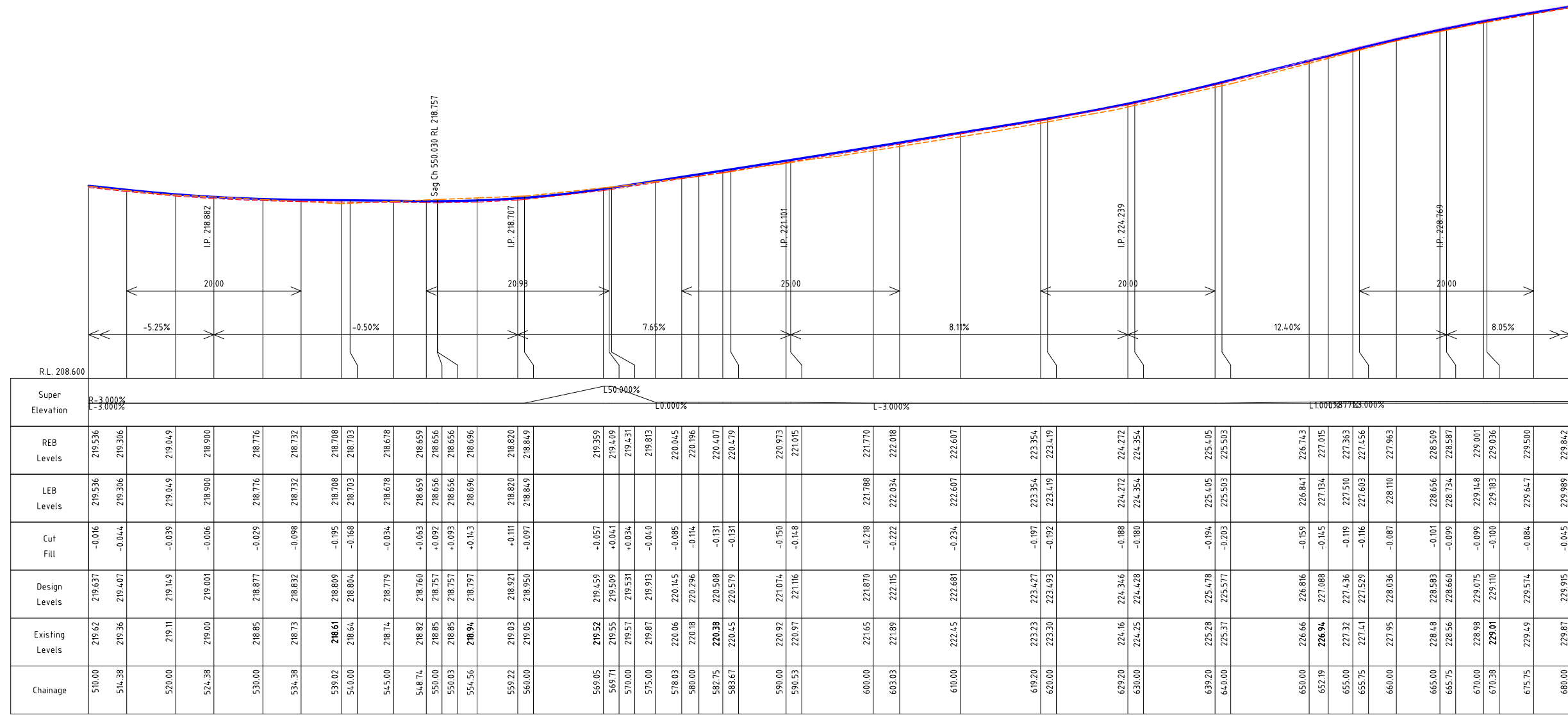
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01.04.2021	A	SUBMITTED FOR COMMENTS

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PROPOSED KERB AND CHANNEL	---
EXISTING DRAINS AND PITS	---
PROPOSED DRAINS AND PITS	---
PROPOSED PROPERTY INLET	---
WATER MAINS AND FITTINGS	---
SEWER	---
GAS MAINS	---
TELECOM CABLES AND PITS	---
EX	---
PROP	---
EX	---
PROP	---
EX	---
PROP	---
EX	---
PROP	---

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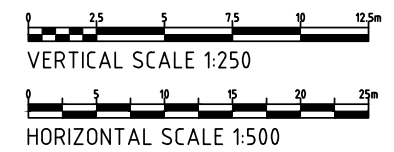
CARDINIA SHIRE COUNCIL	Drawing No. CCD.
CAROLINE AVENUE & BORONIA CRESCENT	20021 59
COCKATOO	Sheet 59 OF 91
ROAD RECONSTRUCTION WORKS	Rev A
CAROLINE AVE LONGITUDINAL SECTION	CCD Ref. No. 20021



ProfileRoadCaroline Ave_AlignmentFrom510.000To680.000Scale: H 1 in500V 1 in250

CAROLINE AVENUE LONGITUDINAL SECTION

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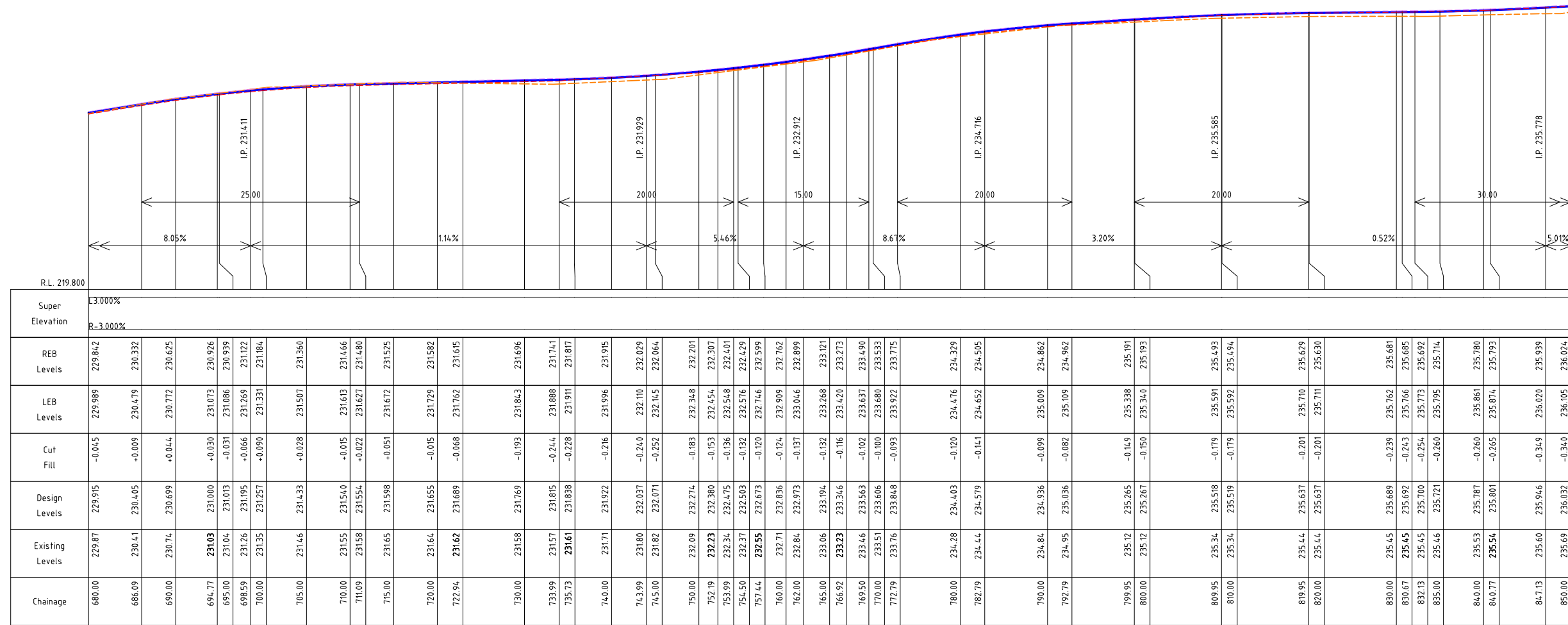
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01.04.2021	A	SUBMITTED FOR COMMENTS

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PROPOSED KERB AND CHANNEL	---
EXISTING DRAINS AND PITS	---
PROPOSED DRAINS AND PITS	---
PROPOSED PROPERTY INLET	---
WATER MAINS AND FITTINGS	---
SEWER	---
GAS MAINS	---
TELECOM CABLES AND PITS	---
P.I.	---

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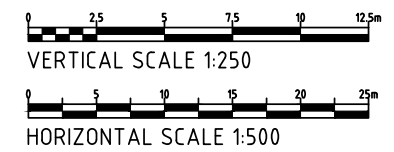
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CAROLINE AVENUE & BORONIA CRESCENT	20021 60
COCKATOO	Sheet 60 OF 91
ROAD RECONSTRUCTION WORKS	Rev A
CAROLINE AVE LONGITUDINAL SECTION	CCD Ref. No. 20021



Profile Road Caroline Ave Alignment From 680.000 To 850.000 Scales: H 1 in 500 V 1 in 250

CAROLINE AVENUE LONGITUDINAL SECTION

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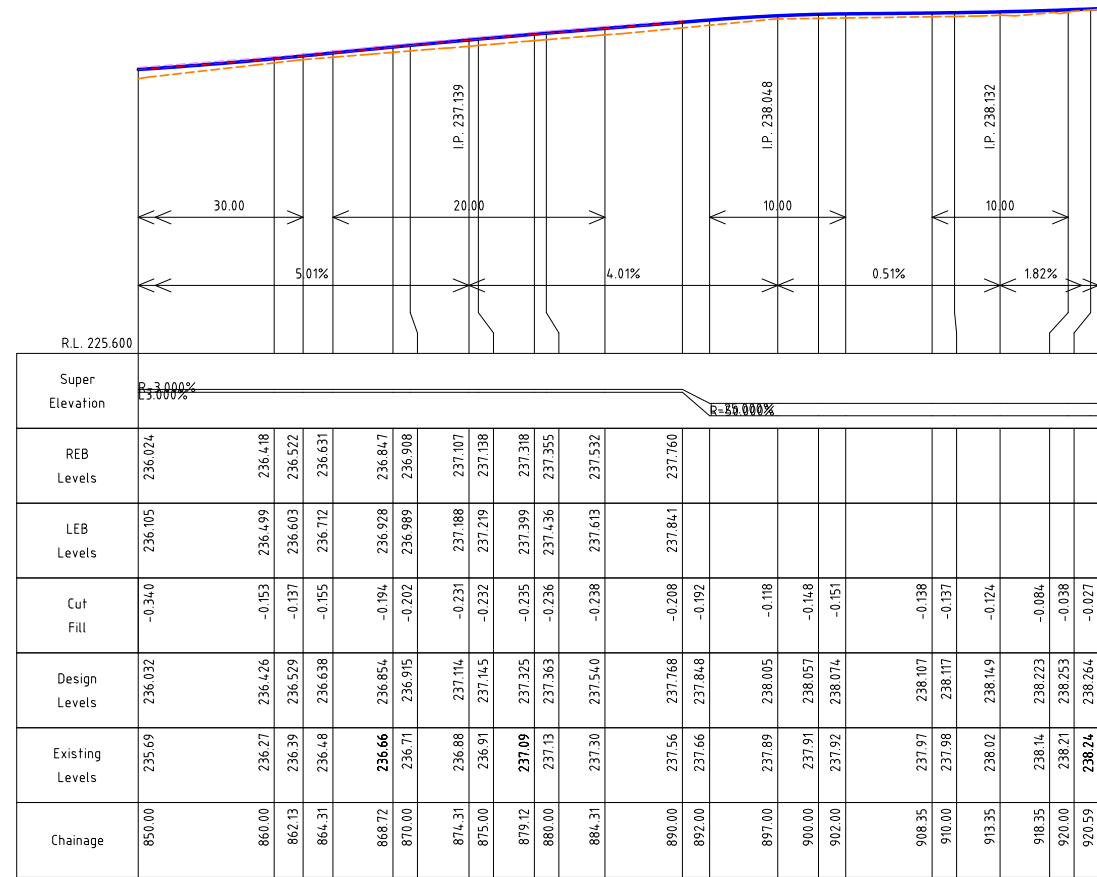
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01.04.2021	A	SUBMITTED FOR COMMENTS

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PROPOSED KERB AND CHANNEL	--- S ---
EXISTING DRAINS AND PITS	--- G ---
PROPOSED DRAINS AND PITS	--- T ---
PROPOSED PROPERTY INLET	--- P.I. ---
WATER MAINS AND FITTINGS	EX --- W ---
SEWER	EX --- S ---
GAS MAINS	EX --- G ---
TELECOM CABLES AND PITS	EX --- T ---

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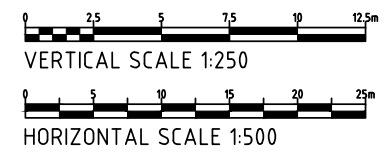
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CAROLINE AVENUE & BORONIA CRESCENT	20021 61
COCKATOO	Sheet 61 OF 91
ROAD RECONSTRUCTION WORKS	Rev A
CAROLINE AVE LONGITUDINAL SECTION	CCD Ref. No. 20021



ProfileRoadCaroline Ave_AlignmentFrom850.000To920.586Scales: H 1 in500V 1 in250

CAROLINE AVENUE LONGITUDINAL SECTION

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Legend	
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PROPOSED KERB AND CHANNEL	---W---○
EXISTING DRAINS AND PITS	---S---
PROPOSED DRAINS AND PITS	---S---○
PROPOSED PROPERTY INLET	---G---
	---G---○
	---T---
	---T---○
	---P.L.---

WATER MAINS AND FITTINGS
SEWER
GAS MAINS
TELECOM CABLES AND PITS

EX ---W---
PROP ---W---○
EX ---S---
PROP ---S---○
EX ---G---
PROP ---G---○
EX ---T---
PROP ---T---○
EX ---P.L.---PROP ---P.L.---

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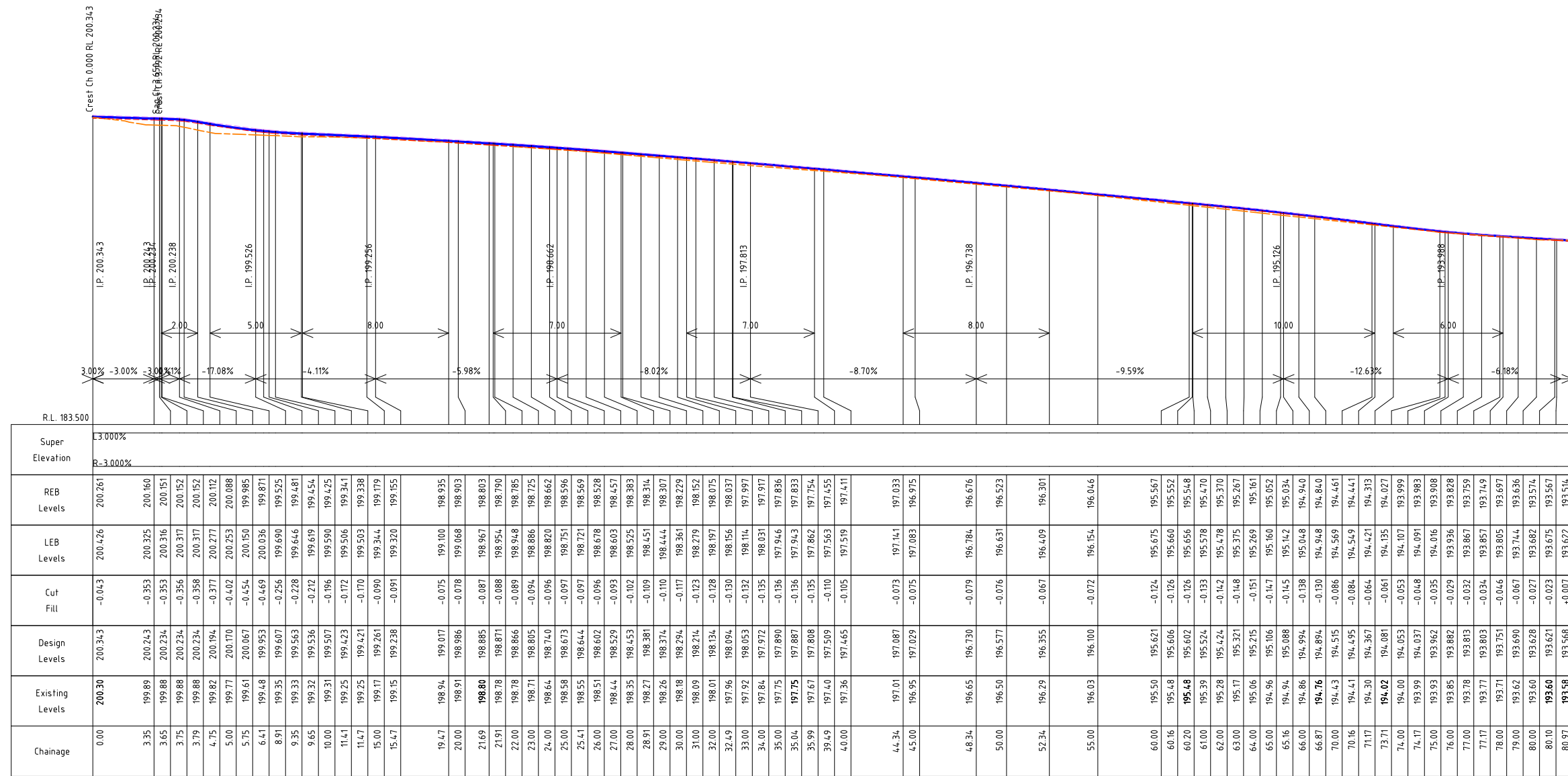
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CARDINIA SHIRE COUNCIL
CAROLINE AVENUE & BORONIA CRESCENT
COCKATOO
ROAD RECONSTRUCTION WORKS
CAROLINE AVE LONGITUDINAL SECTION

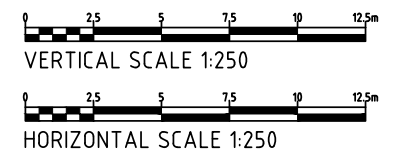
Drawing No. CCD. 20021 62
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ProfileRoadRouen Rd_AlignmentFrom0.000To80.970Scales: H 1 in 250V 1 in 250

ROUEN ROAD LONGITUDINAL SECTION

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Legend

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- PROPOSED KERB AND CHANNEL
- EXISTING DRAINS AND PITS
- PROPOSED DRAINS AND PITS
- PROPOSED PROPERTY INLET
- WATER MAINS AND FITTINGS
- SEWER
- GAS MAINS
- TELECOM CABLES AND PITS
- EX --- W ---
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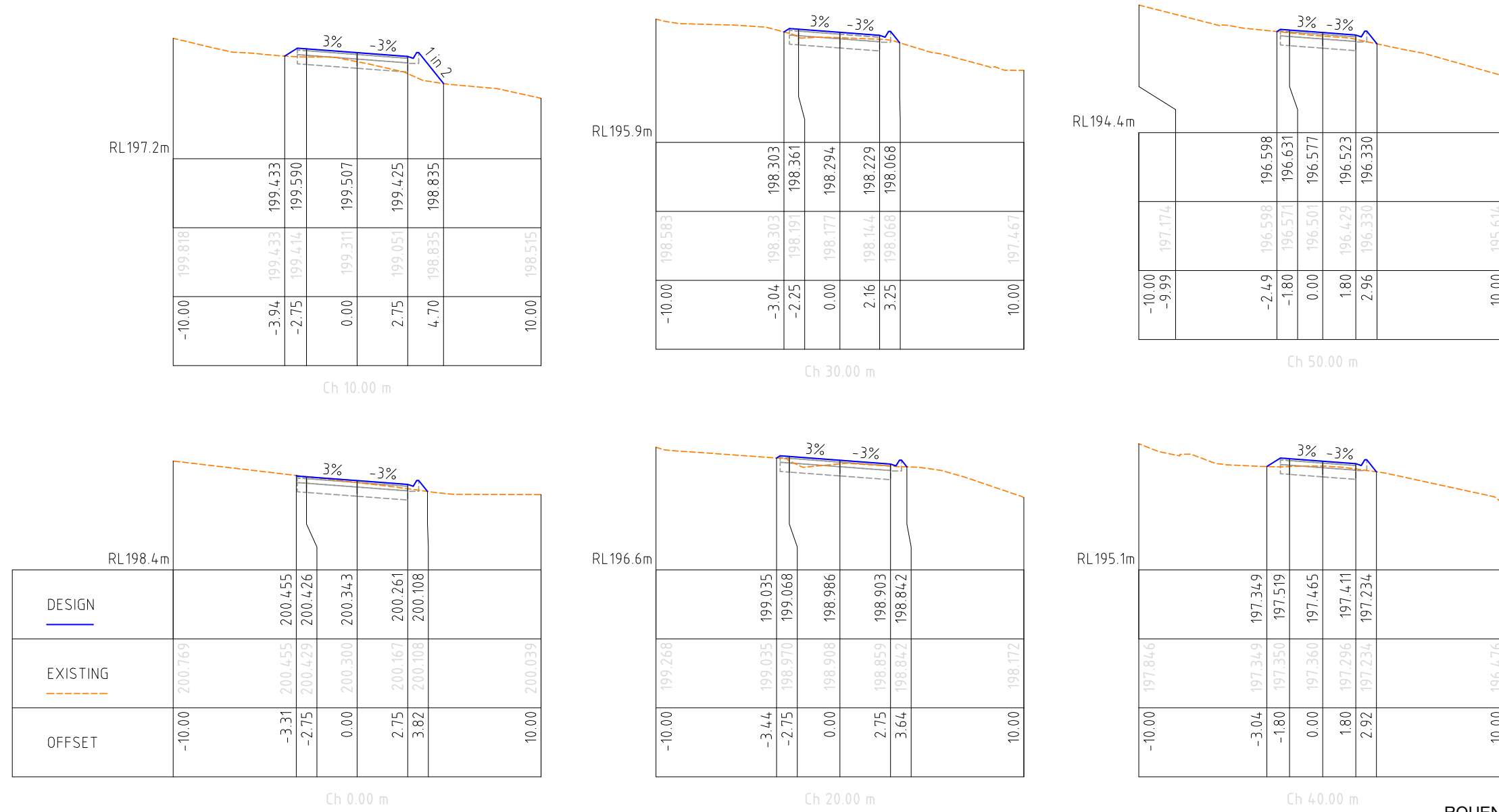
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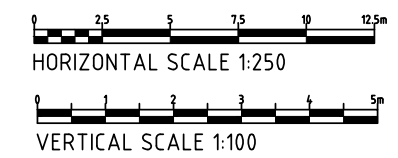
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COCKATOO
ROAD RECONSTRUCTION WORKS
ROUEN ROAD LONGITUDINAL SECTION

Drawing No.	CCD.
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ROUEN ROAD CROSS SECTION

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Date:	Rev.	Amendments:
01.04.2021	A	SUBMITTED FOR COMMENTS

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PROPOSED KERB AND CHANNEL	---
EXISTING DRAINS AND PITS	---
PROPOSED DRAINS AND PITS	---
PROPOSED PROPERTY INLET	---

WATER MAINS AND FITTINGS	EX	PROP
SEWER <td>---</td> <td>---</td>	---	---
GAS MAINS <td>---</td> <td>---</td>	---	---
TELECOM CABLES AND PITS <td>---</td> <td>---</td>	---	---

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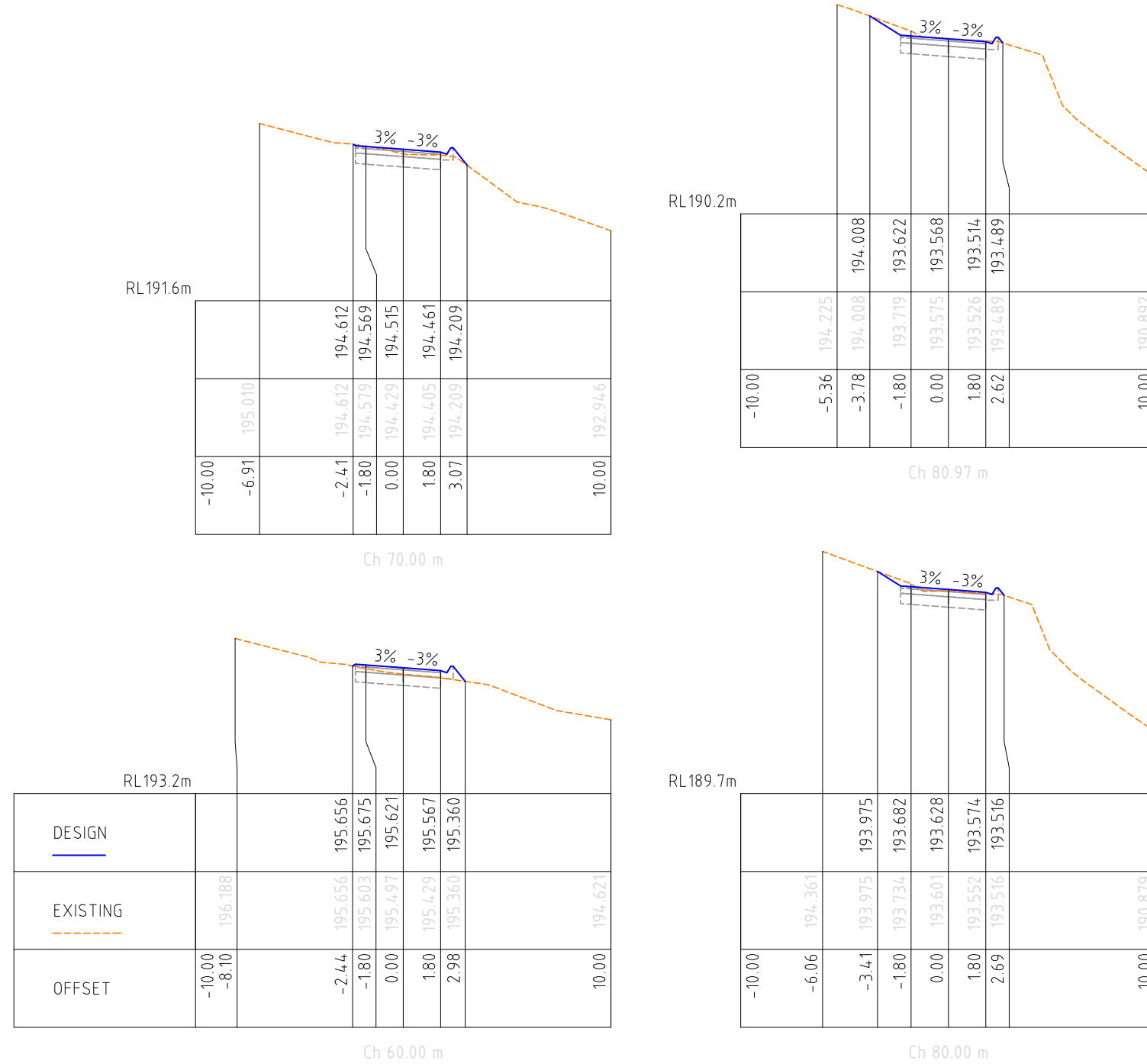
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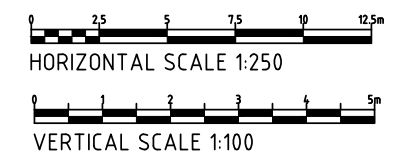
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ROUEN ROAD CROSS SECTION	

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PROPOSED KERB AND CHANNEL	---
EXISTING DRAINS AND PITS	---
PROPOSED DRAINS AND PITS	---
PROPOSED PROPERTY INLET	---

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SEWER	EX ---S---O
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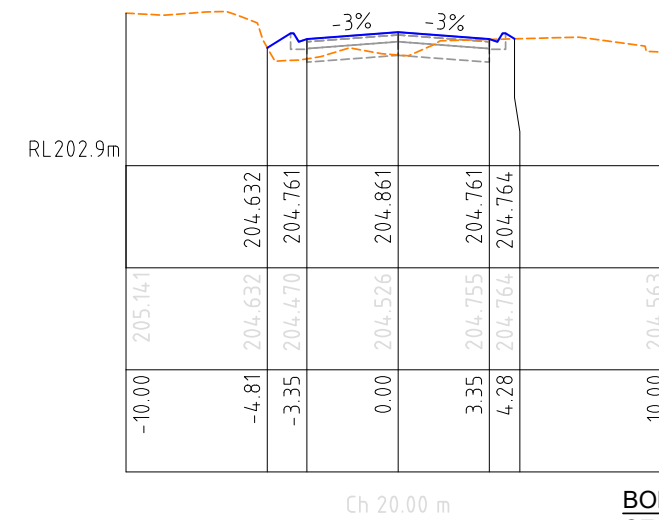
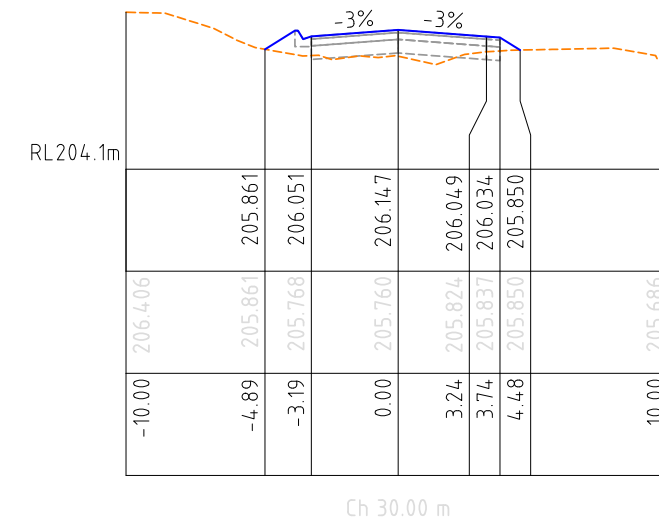
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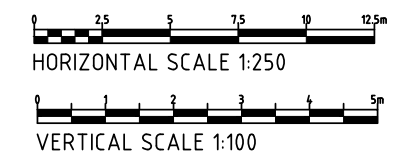
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CARDINIA SHIRE COUNCIL	Drawing No CCD.
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COCKATOO	Sheet 65 OF 91
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BORONIA CRESCENT CROSS SECTION

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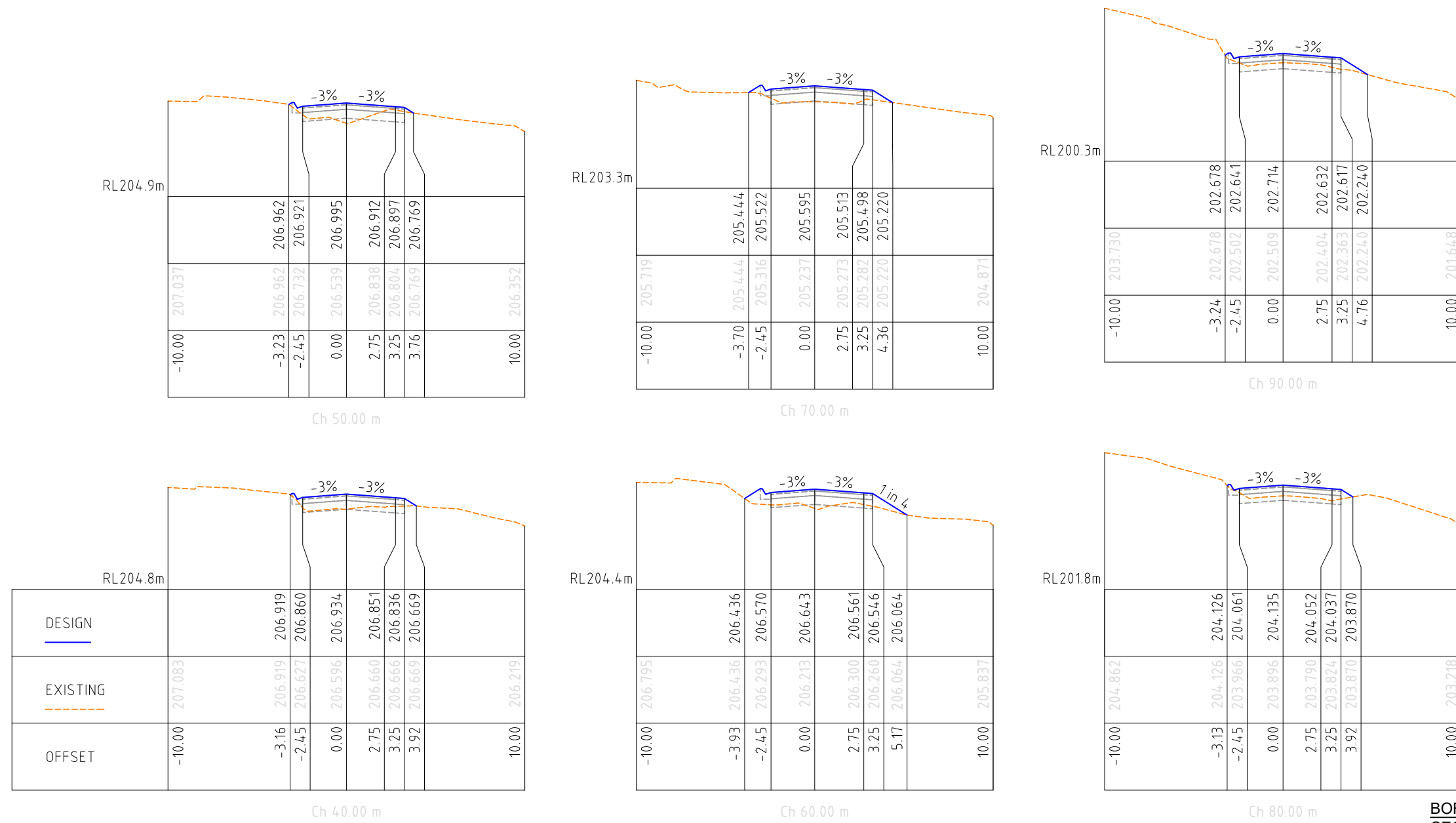
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PROPOSED DRAINS AND PITS	-----
PROPOSED PROPERTY INLET	-----
WATER MAINS AND FITTINGS	EX ---W---
SEWER	EX ---S---○
GAS MAINS	EX ---G---
TELECOM CABLES AND PITS	EX ---T---
	PROP ---W---
	PROP ---S---○
	PROP ---G---
	PROP ---T---

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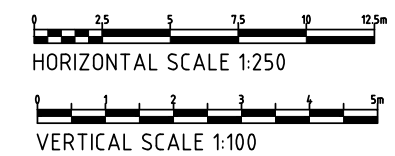
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COCKATOO
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BORONIA CRESCENT CROSS SECTION

Drawing No	CCD.
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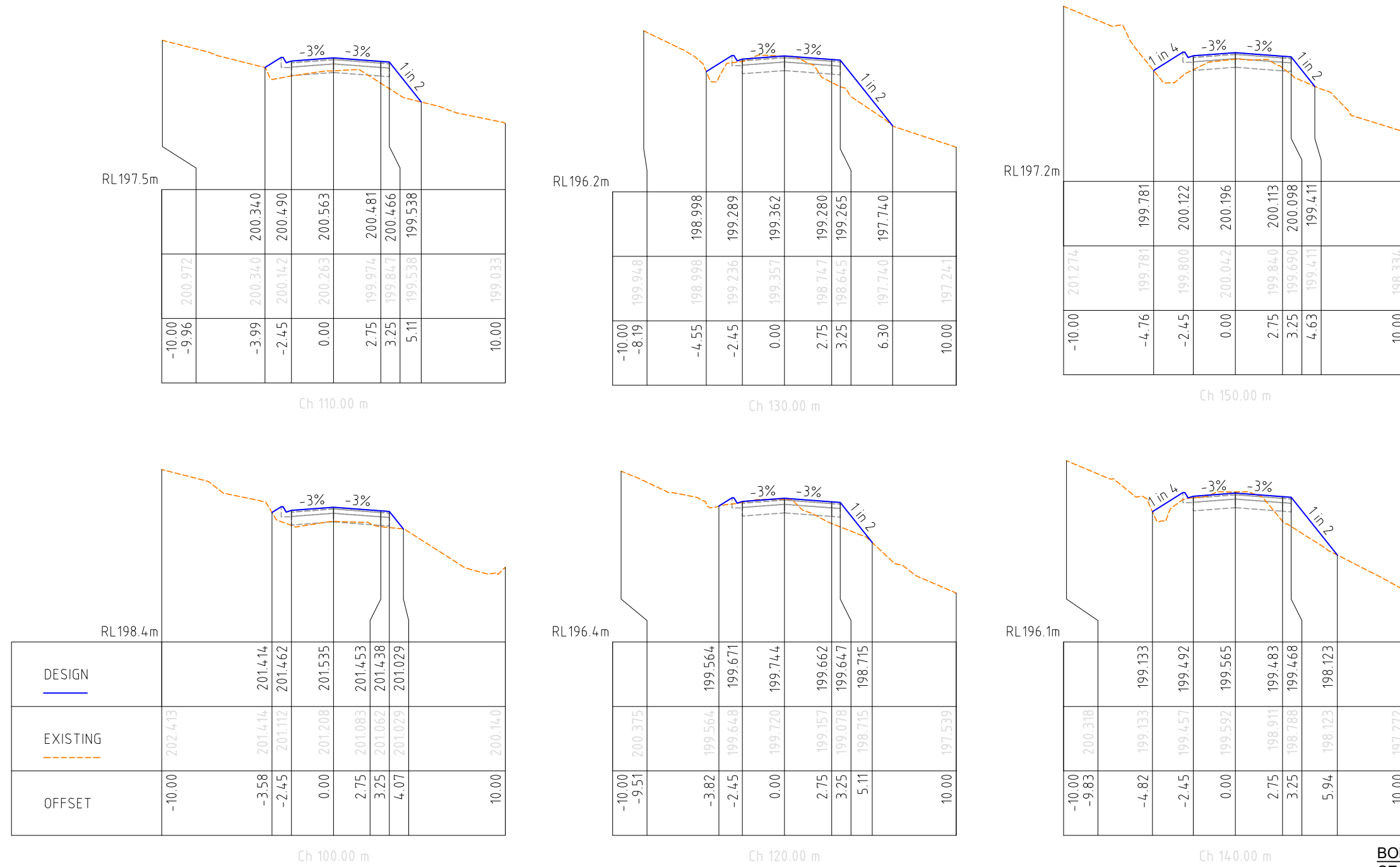


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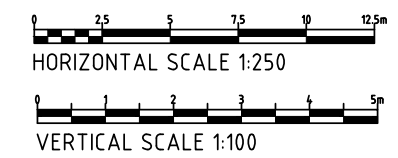


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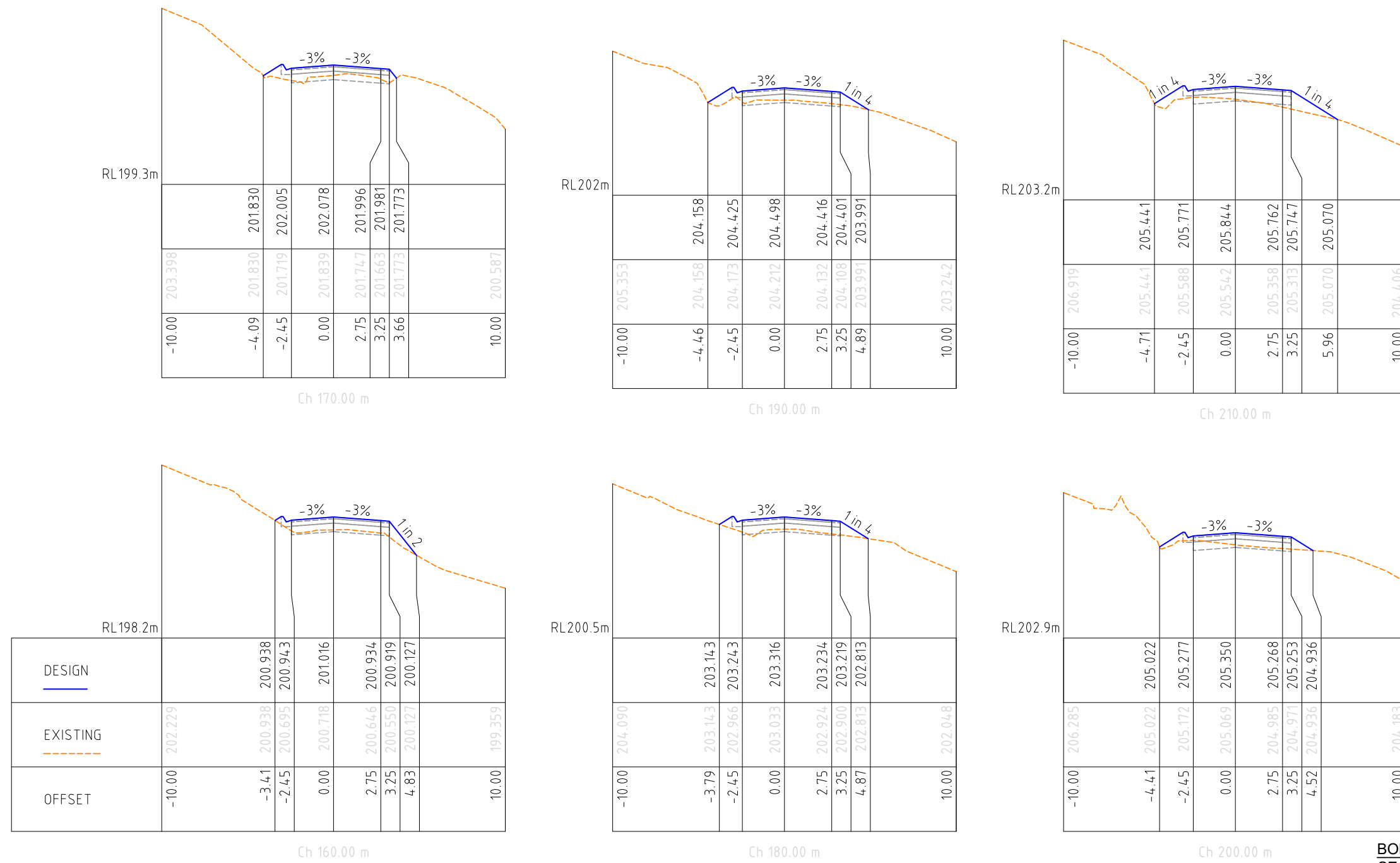
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EXISTING DRAINS AND PITS	---
PROPOSED DRAINS AND PITS	---
PROPOSED PROPERTY INLET	---
WATER MAINS AND FITTINGS	---
SEWER	---
GAS MAINS	---
TELECOM CABLES AND PITS	---
EX	---
PROP	---

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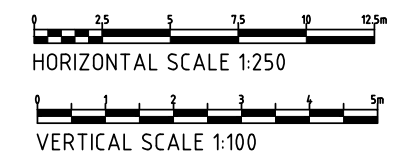
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CAROLINE AVENUE & BORONIA CRESCENT
COCKATOO
ROAD RECONSTRUCTION WORKS
BORONIA CRESCENT CROSS SECTION

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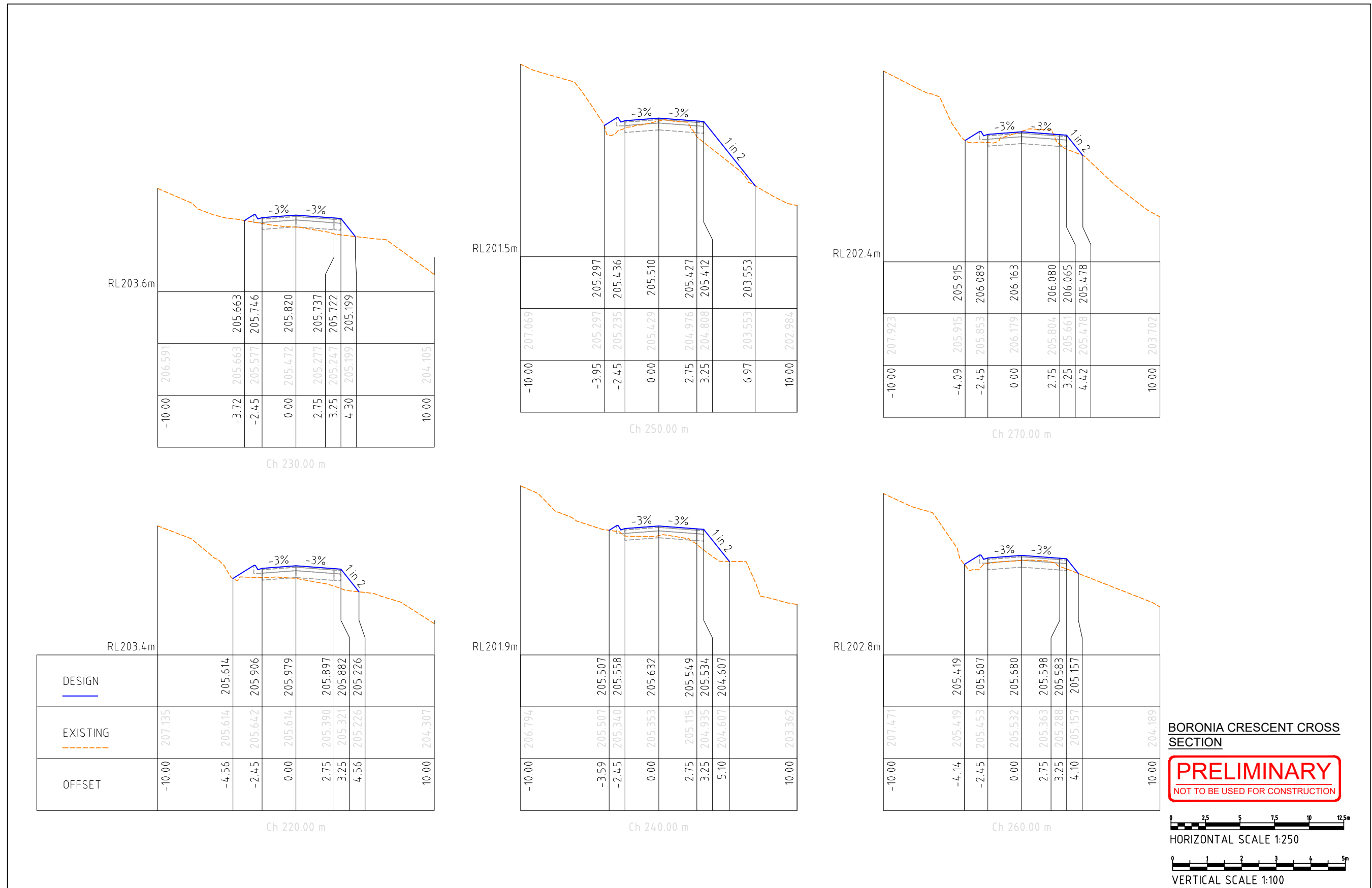


BORONIA CRESCENT CROSS SECTION

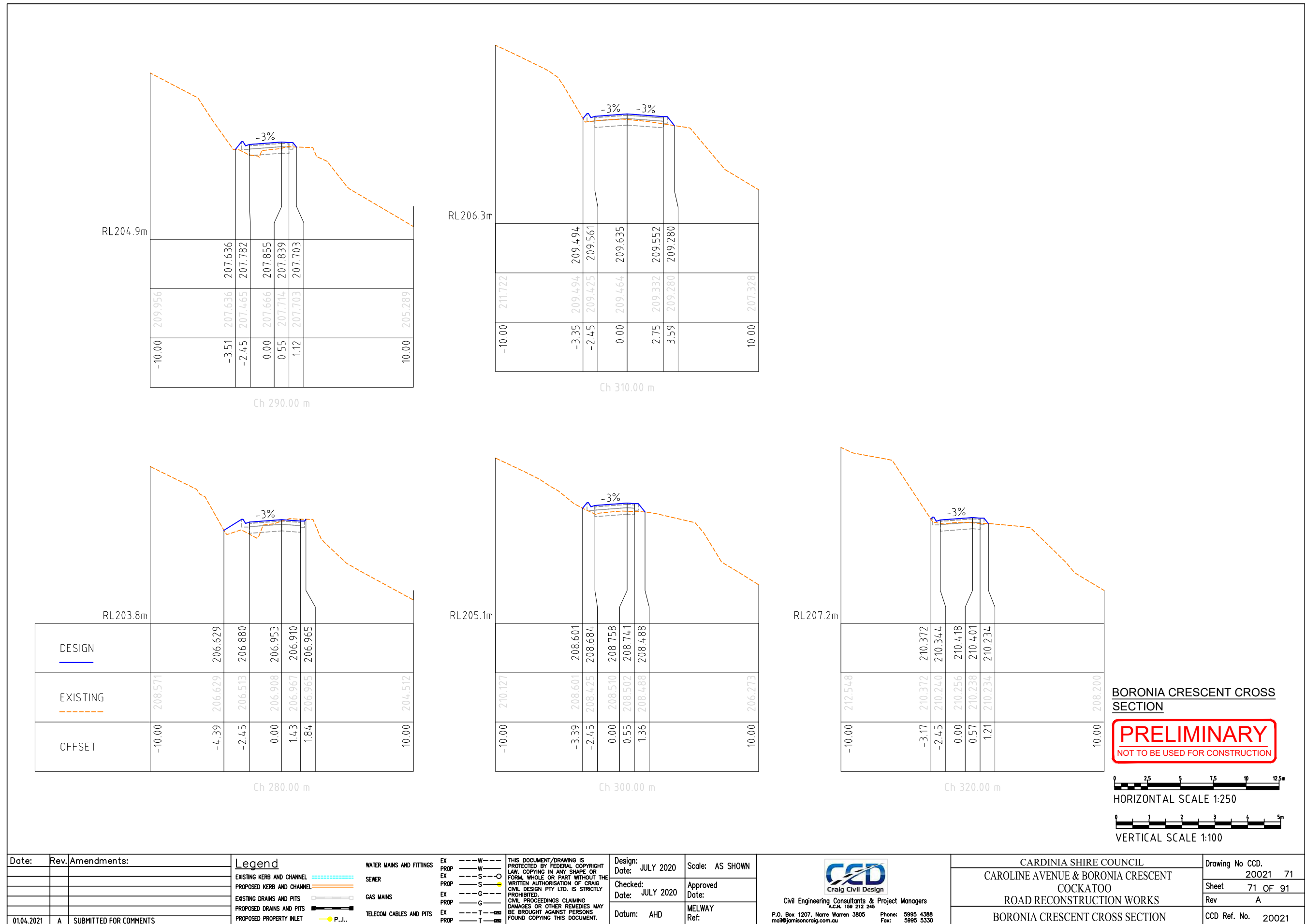
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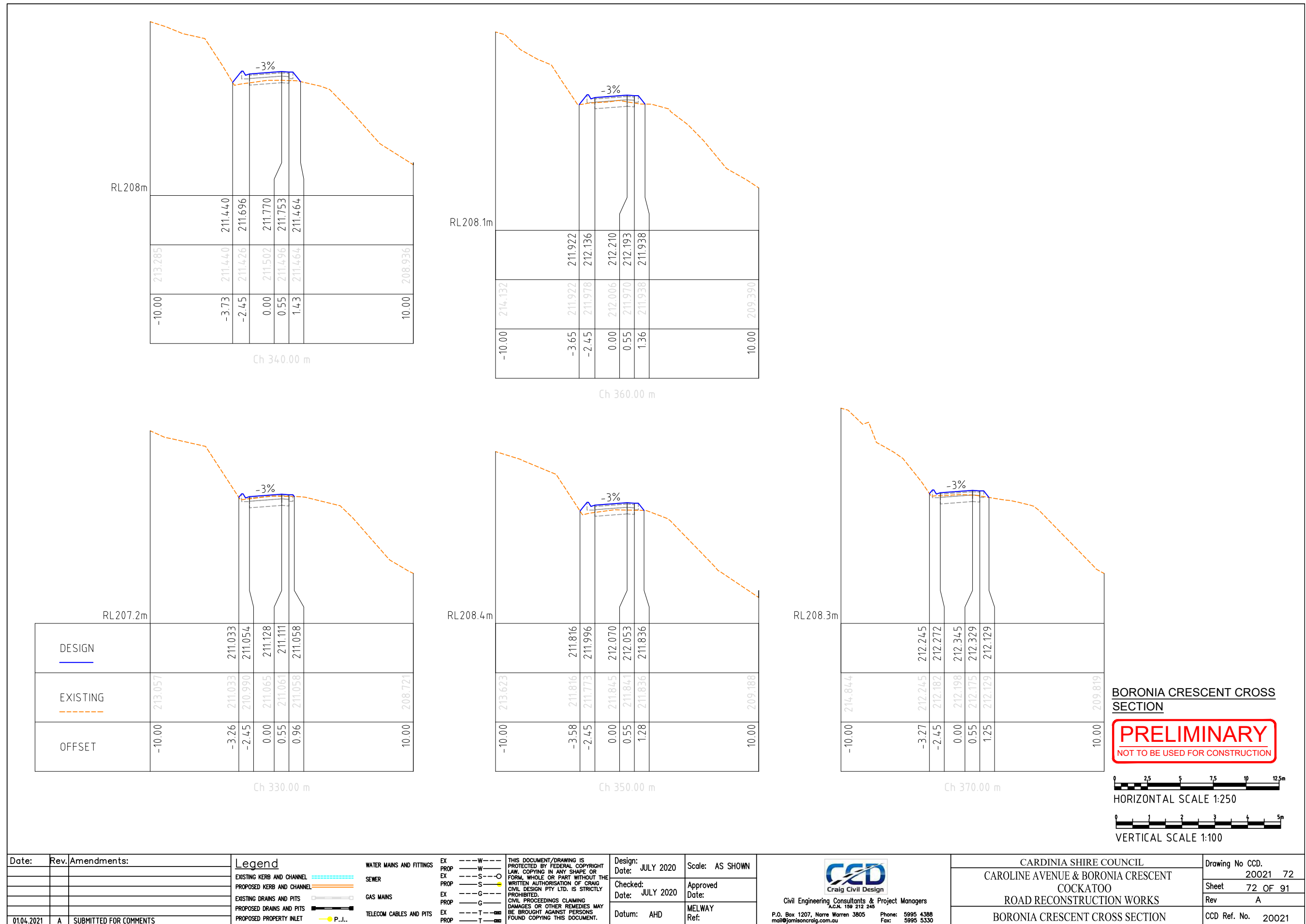
Date: 01.04.2021	Rev: A	Amendments: SUBMITTED FOR COMMENTS	Legend EXISTING KERB AND CHANNEL PROPOSED KERB AND CHANNEL EXISTING DRAINS AND PITS PROPOSED DRAINS AND PITS PROPOSED PROPERTY INLET	WATER MAINS AND FITTINGS SEWER GAS MAINS TELECOM CABLES AND PITS	EX ---W--- PROP ---W--- EX ---S--- PROP ---S--- EX ---G--- PROP ---G--- EX ---T--- PROP ---T---	THIS DOCUMENT/DRAWING IS PROTECTED BY FEDERAL COPYRIGHT LAW. COPYING IN ANY SHAPE OR FORM, WHOLE OR PART WITHOUT THE WRITTEN AUTHORISATION OF CRAIG CIVIL DESIGN PTY LTD. IS STRICTLY PROHIBITED. CIVIL PROCEEDINGS CLAIMING DAMAGES OR OTHER REMEDIES MAY BE BROUGHT AGAINST PERSONS FOUND COPYING THIS DOCUMENT.	Design: JULY 2020 Date: JULY 2020 Checked: JULY 2020 Date: JULY 2020 Datum: AHD	Scale: AS SHOWN Approved Date: MELWAY Ref:	 Civil Engineering Consultants & Project Managers P.O. Box 1207, Narre Warren 3805 Phone: 5995 4388 Fax: 5995 5330	CARDINIA SHIRE COUNCIL CAROLINE AVENUE & BORONIA CRESCENT COCKATOO ROAD RECONSTRUCTION WORKS BORONIA CRESCENT CROSS SECTION	Drawing No. CCD. 20021 69 Sheet 69 OF 91 Rev A CCD Ref. No. 20021
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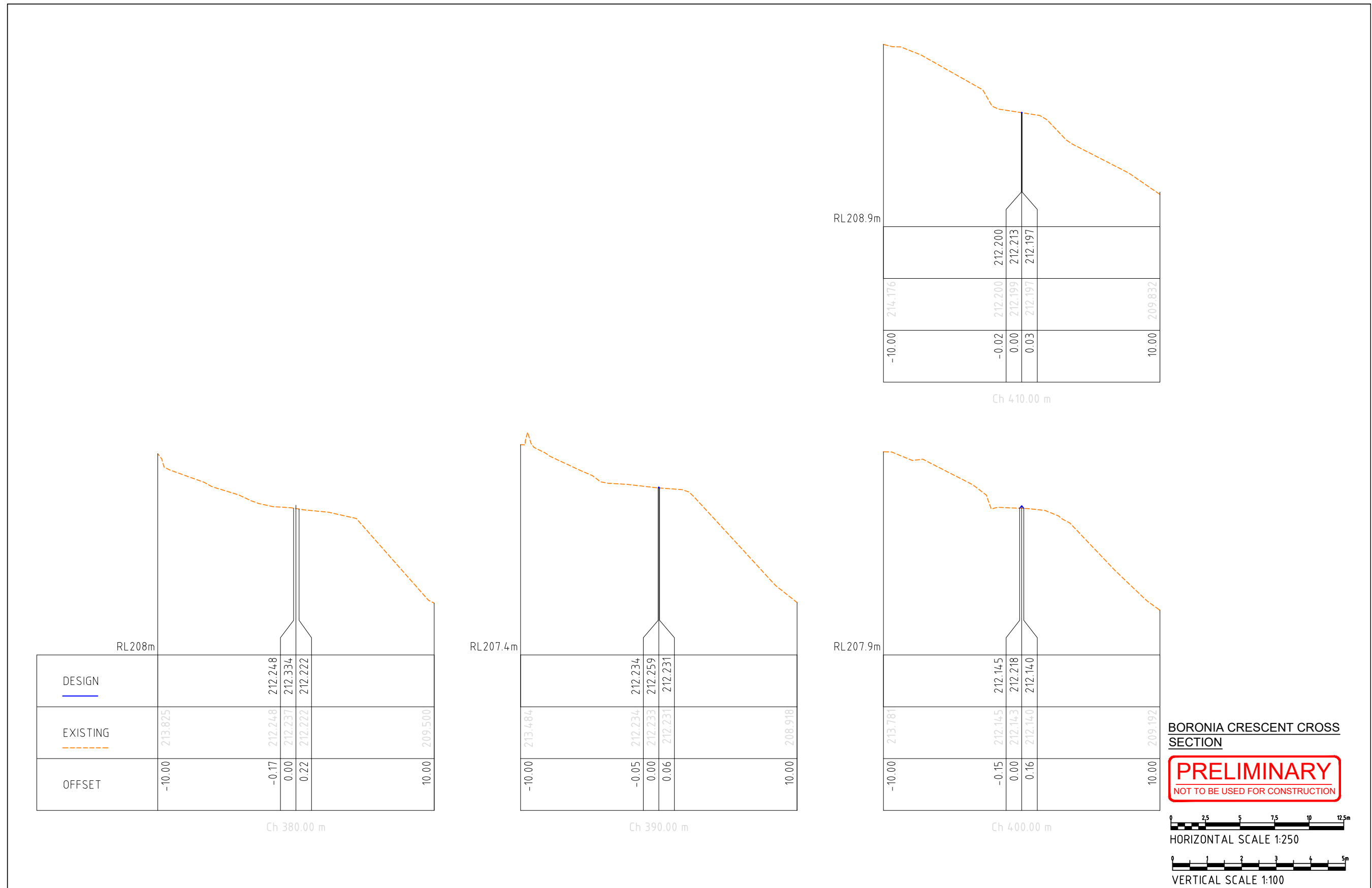
Date: 01.04.2021	Rev: A	Amendments: SUBMITTED FOR COMMENTS	Legend EXISTING KERB AND CHANNEL PROPOSED KERB AND CHANNEL EXISTING DRAINS AND PITS PROPOSED DRAINS AND PITS PROPOSED PROPERTY INLET P.I.	WATER MAINS AND FITTINGS SEWER GAS MAINS TELECOM CABLES AND PITS	EX --- W --- PROP --- W --- EX --- S --- PROP --- S --- EX --- G --- PROP --- G --- EX --- T --- PROP --- T ---	THIS DOCUMENT/DRAWING IS PROTECTED BY FEDERAL COPYRIGHT LAW. COPYING IN ANY SHAPE OR FORM, WHOLE OR PART WITHOUT THE WRITTEN AUTHORISATION OF CRAIG CIVIL DESIGN PTY LTD. IS STRICTLY PROHIBITED. CIVIL PROCEEDINGS CLAIMING DAMAGES OR OTHER REMEDIES MAY BE BROUGHT AGAINST PERSONS FOUND COPYING THIS DOCUMENT.	Design: JULY 2020 Date: JULY 2020 Checked: JULY 2020 Date: JULY 2020 Datum: AHD MELWAY Ref:	Scale: AS SHOWN Approved Date: MELWAY Ref:	Civil Engineering Consultants & Project Managers P.O. Box 1207, Narre Warren 3805 Phone: 5995 4388 Fax: 5995 5330	CARDINIA SHIRE COUNCIL CAROLINE AVENUE & BORONIA CRESCENT COCKATOO ROAD RECONSTRUCTION WORKS BORONIA CRESCENT CROSS SECTION	Drawing No CCD. 20021 70 Sheet 70 OF 91 Rev A CCD Ref. No. 20021
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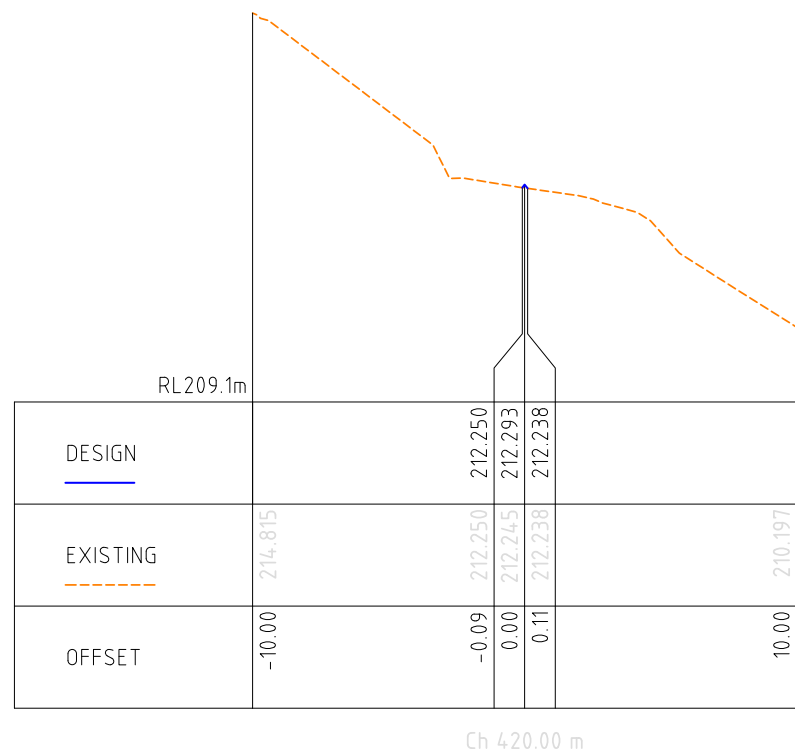
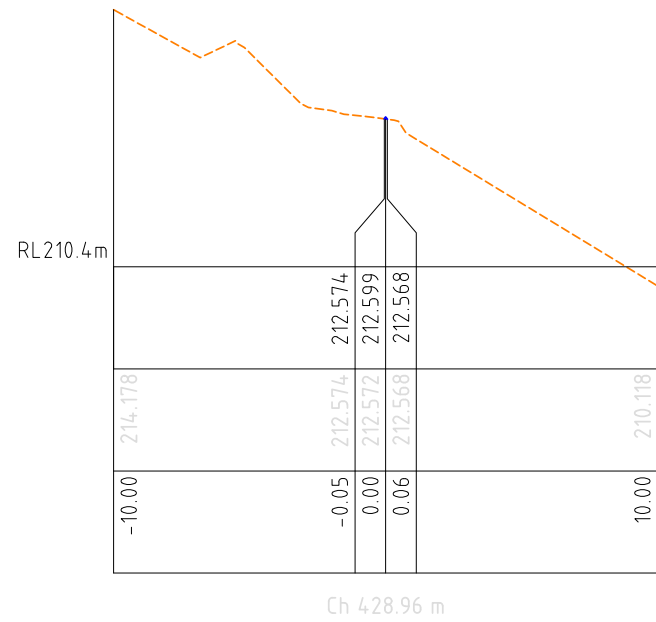
Date: 01.04.2021	Rev: A	Amendments: SUBMITTED FOR COMMENTS	Legend EXISTING KERB AND CHANNEL PROPOSED KERB AND CHANNEL EXISTING DRAINS AND PITS PROPOSED DRAINS AND PITS PROPOSED PROPERTY INLET	WATER MAINS AND FITTINGS SEWER GAS MAINS TELECOM CABLES AND PITS	EX --- W --- PROP --- W --- EX --- S --- PROP --- S --- EX --- G --- PROP --- G --- EX --- T --- PROP --- T ---	THIS DOCUMENT/DRAWING IS PROTECTED BY FEDERAL COPYRIGHT LAW. COPYING IN ANY SHAPE OR FORM, WHOLE OR PART WITHOUT THE WRITTEN AUTHORISATION OF CRAIG CIVIL DESIGN PTY LTD. IS STRICTLY PROHIBITED. CIVIL PROCEEDINGS CLAIMING DAMAGES OR OTHER REMEDIES MAY BE BROUGHT AGAINST PERSONS FOUND COPYING THIS DOCUMENT.	Design: JULY 2020 Date: JULY 2020 Checked: JULY 2020 Date: JULY 2020 Datum: AHD	Scale: AS SHOWN Approved Date: MELWAY Ref:	 Civil Engineering Consultants & Project Managers P.O. Box 1207, Narre Warren 3805 Ac/c: 159 212 245 Phone: 5995 4388 Fax: 5995 5330 Email: mail@jamisoncraig.com.au	CARDINIA SHIRE COUNCIL CAROLINE AVENUE & BORONIA CRESCENT COCKATOO ROAD RECONSTRUCTION WORKS BORONIA CRESCENT CROSS SECTION	Drawing No CCD. 20021 71 Sheet 71 OF 91 Rev A CCD Ref. No. 20021
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Date: 01.04.2021	Rev: A	Amendments: SUBMITTED FOR COMMENTS	Legend EXISTING KERB AND CHANNEL PROPOSED KERB AND CHANNEL EXISTING DRAINS AND PITS PROPOSED DRAINS AND PITS PROPOSED PROPERTY INLET P.I.	WATER MAINS AND FITTINGS SEWER GAS MAINS TELECOM CABLES AND PITS	EX --- W --- PROP --- W --- EX --- S --- PROP --- S --- EX --- G --- PROP --- G --- EX --- T --- PROP --- T ---	THIS DOCUMENT/DRAWING IS PROTECTED BY FEDERAL COPYRIGHT LAW. COPYING IN ANY SHAPE OR FORM, WHOLE OR PART WITHOUT THE WRITTEN AUTHORISATION OF CRAIG CIVIL DESIGN PTY LTD. IS STRICTLY PROHIBITED. CIVIL PROCEEDINGS CLAIMING DAMAGES OR OTHER REMEDIES MAY BE BROUGHT AGAINST PERSONS FOUND COPYING THIS DOCUMENT.	Design: JULY 2020 Date: JULY 2020 Checked: JULY 2020 Date: JULY 2020 Datum: AHD	Scale: AS SHOWN Approved Date: MELWAY Ref:	 Civil Engineering Consultants & Project Managers P.O. Box 1207, Narre Warren 3805 Ac/c: 159 212 245 Phone: 5995 4388 Fax: 5995 5330 Email: mail@jamisoncraig.com.au	CARDINIA SHIRE COUNCIL CAROLINE AVENUE & BORONIA CRESCENT COCKATOO ROAD RECONSTRUCTION WORKS BORONIA CRESCENT CROSS SECTION	Drawing No. CCD. 20021 72 Sheet 72 OF 91 Rev A CCD Ref. No. 20021
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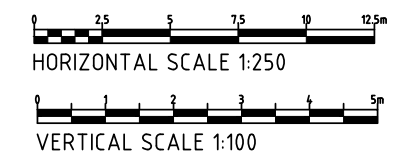


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BORONIA CRESCENT CROSS SECTION

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Legend	
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PROPOSED KERB AND CHANNEL	---
EXISTING DRAINS AND PITS	---
PROPOSED DRAINS AND PITS	---
PROPOSED PROPERTY INLET	---
WATER MAINS AND FITTINGS	---
SEWER	---
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TELECOM CABLES AND PITS	---
P.L.	---

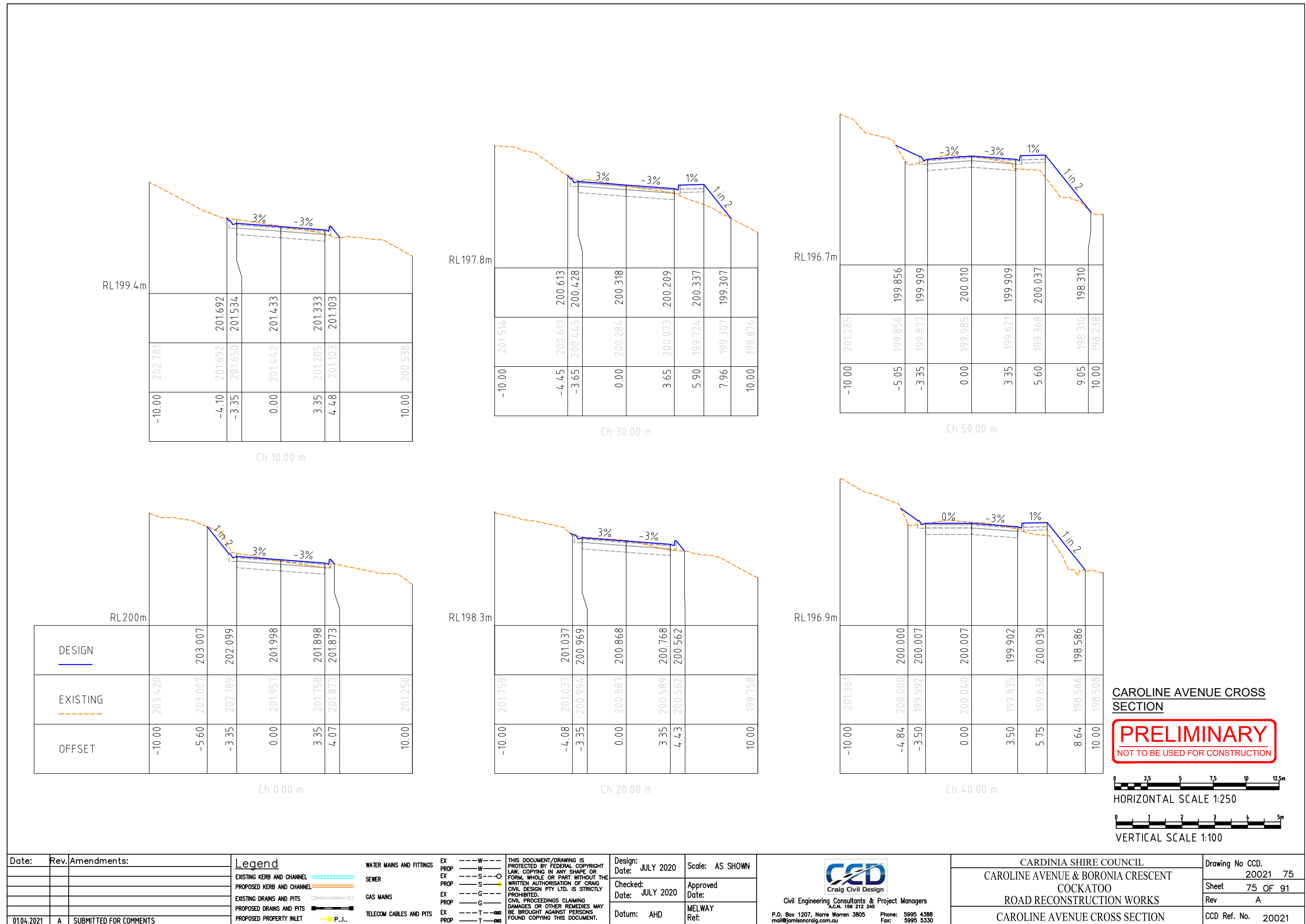
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Legend

EXISTING KERB AND CHANNEL	PROPOSED KERB AND CHANNEL	EXISTING DRAINS AND PITS	PROPOSED DRAINS AND PITS	PROPOSED PROPERTY INLET
WATER MAINS AND FITTINGS	SEWER	GAS MAINS	TELECOM CABLES AND PITS	P.I.

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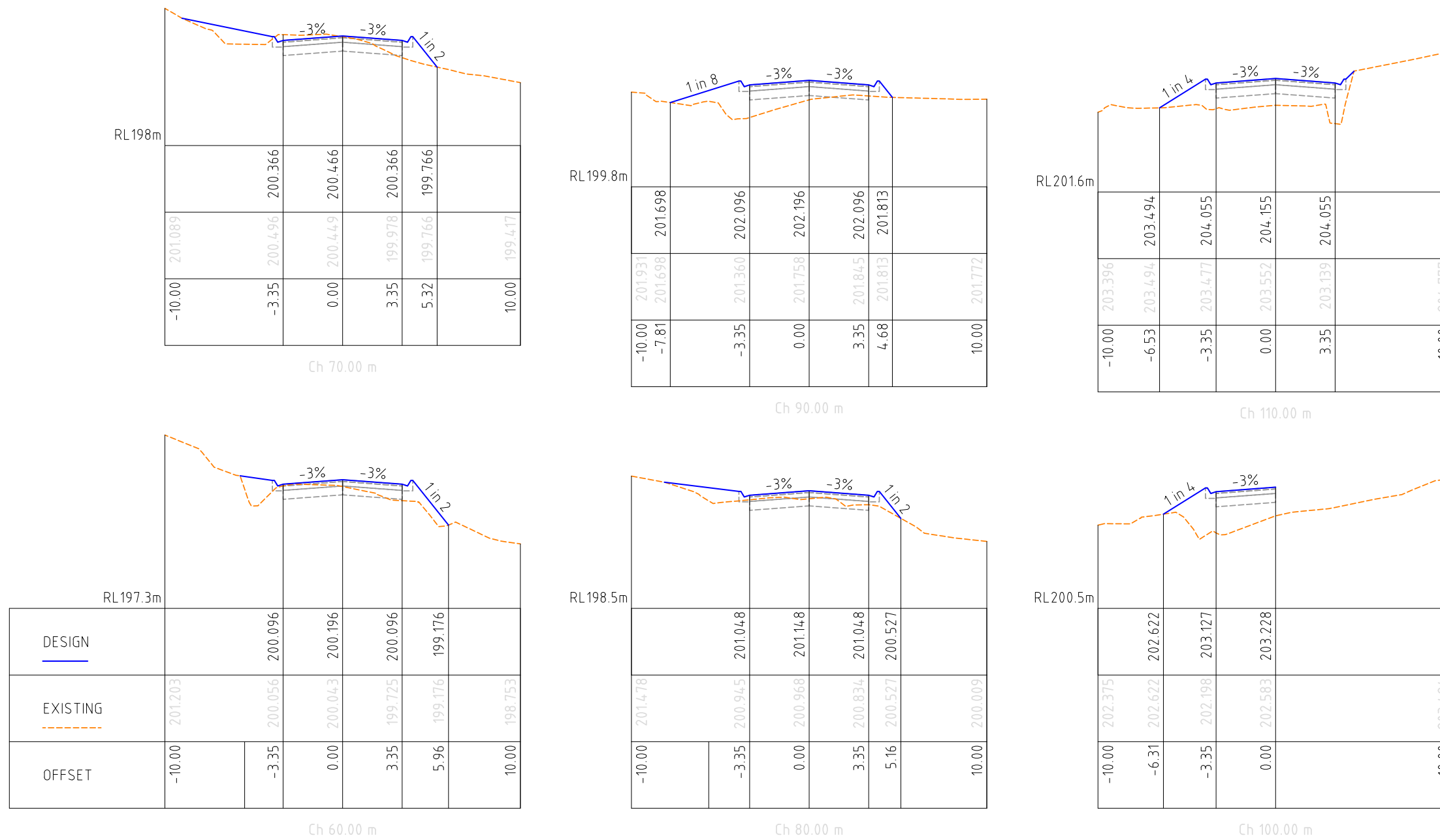
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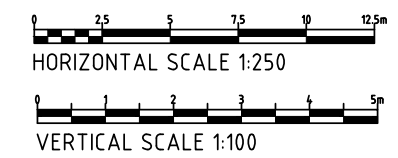
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CAROLINE AVENUE & BORONIA CRESCENT
COCKATOO
ROAD RECONSTRUCTION WORKS
CAROLINE AVENUE CROSS SECTION

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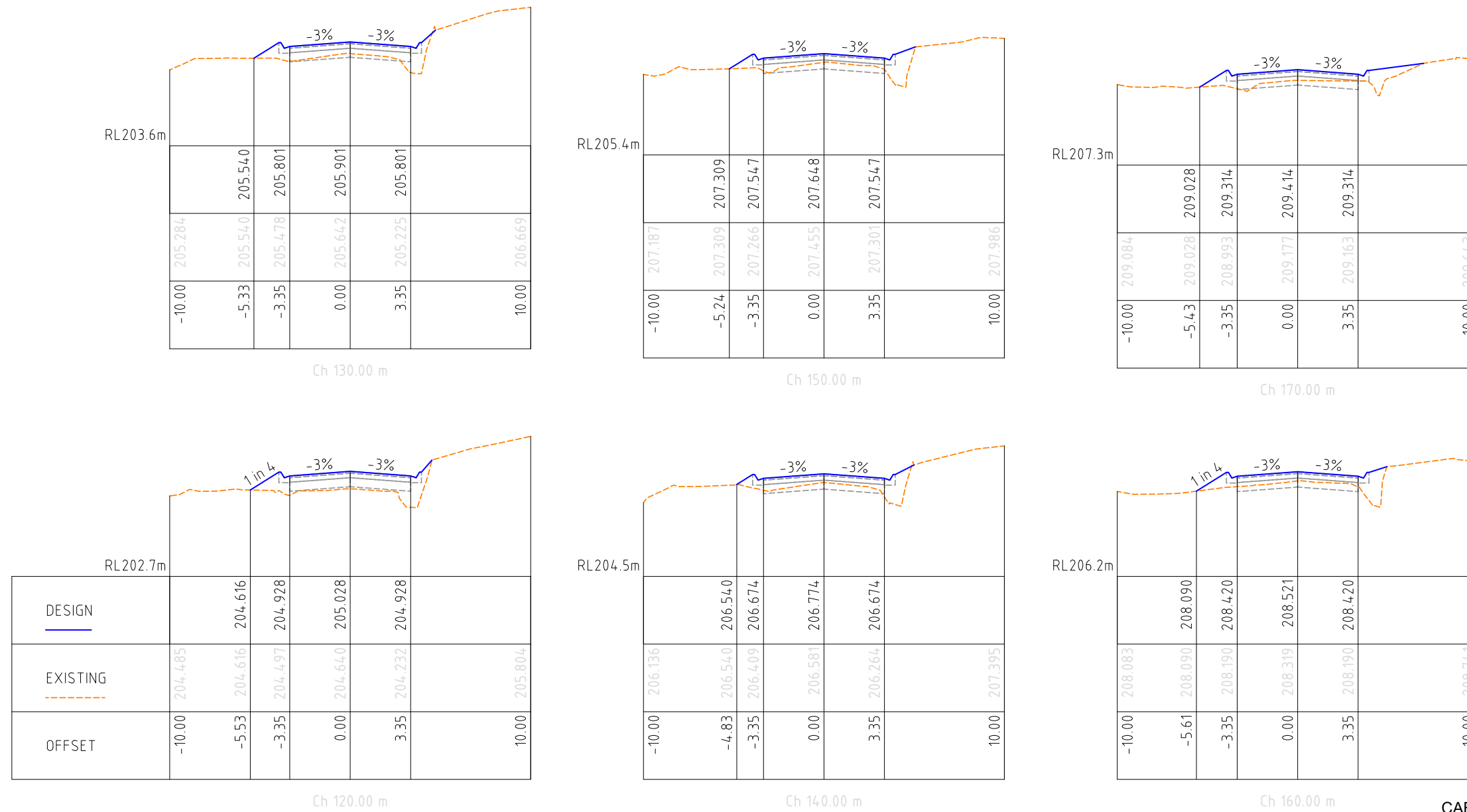


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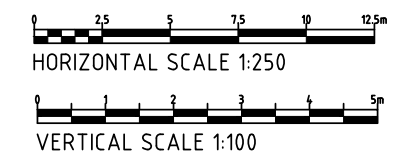


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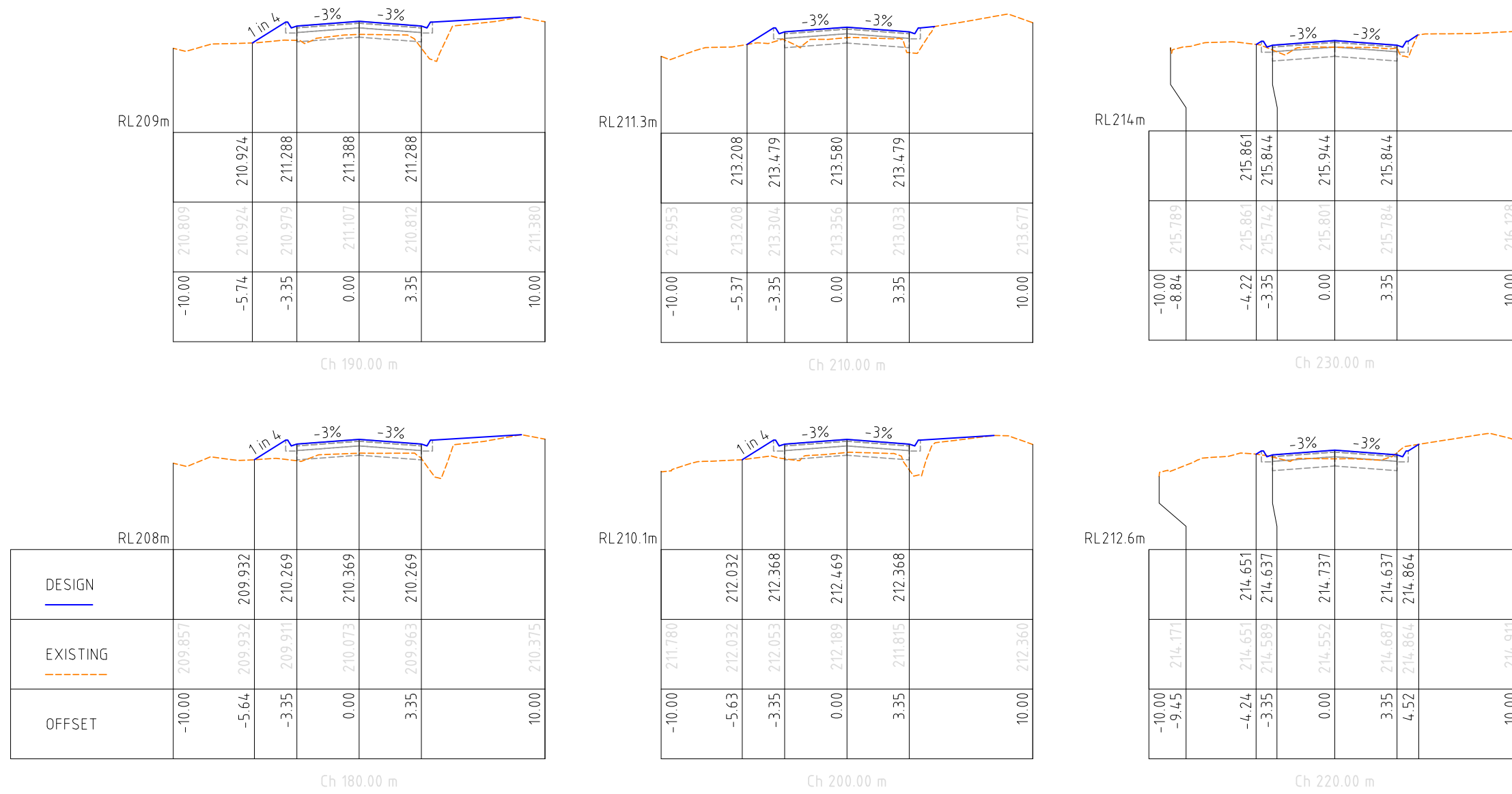


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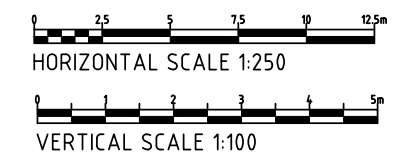


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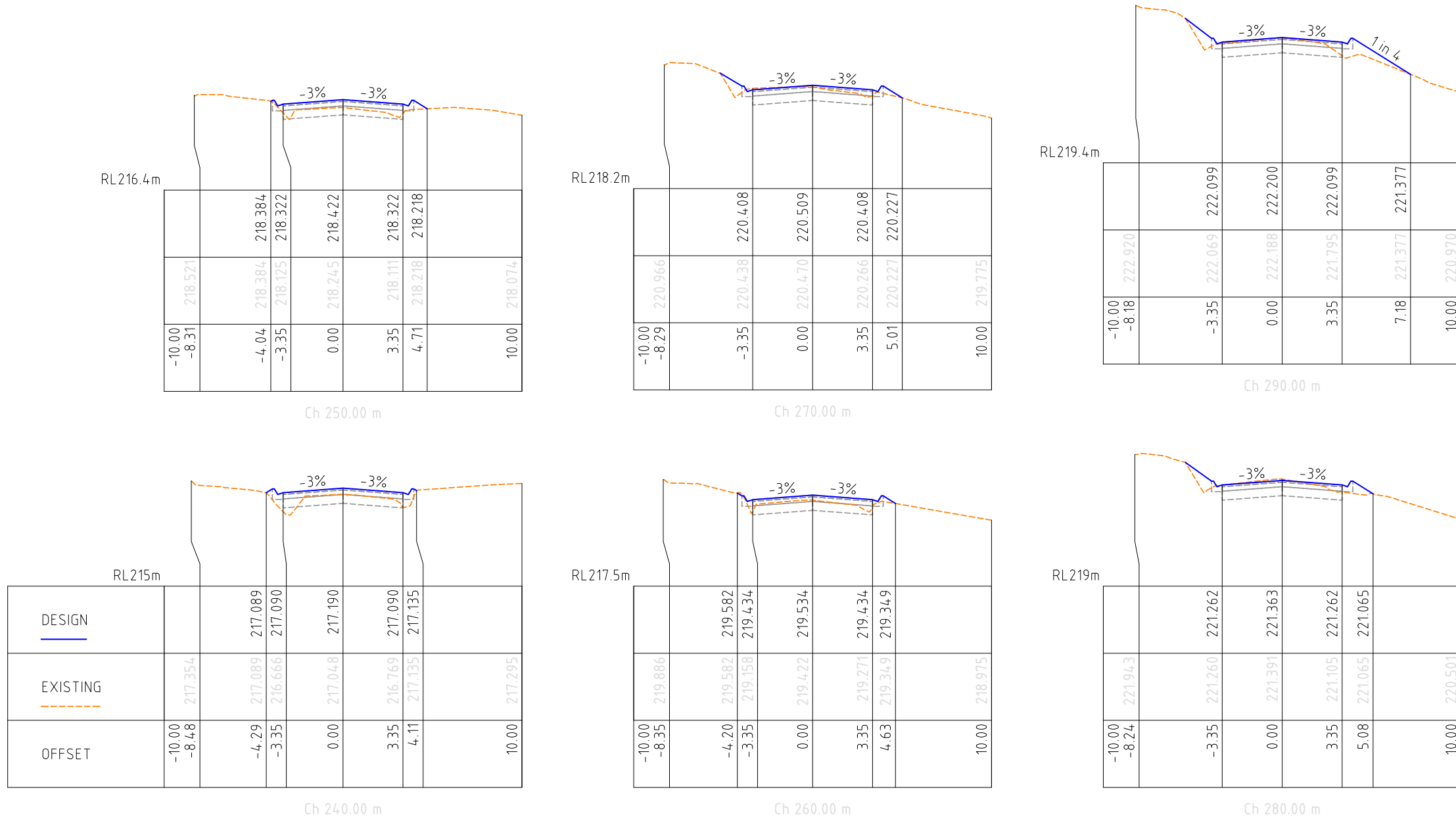


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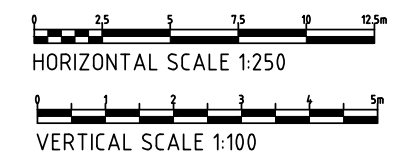


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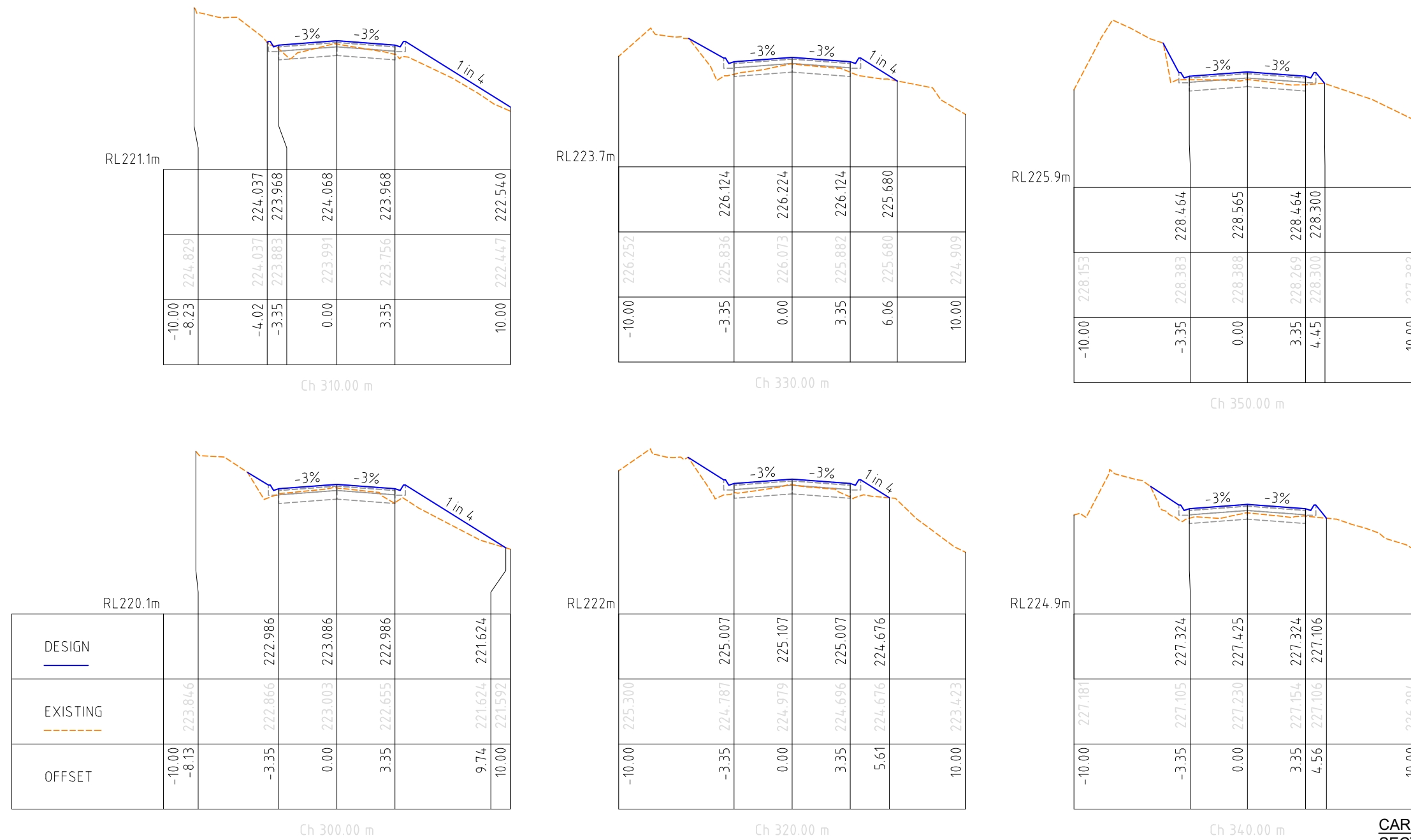
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PROPOSED PROPERTY INLET	---
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SEWER	---
GAS MAINS	---
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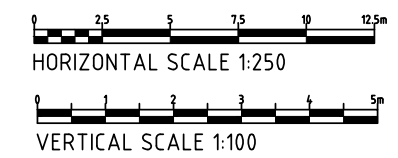
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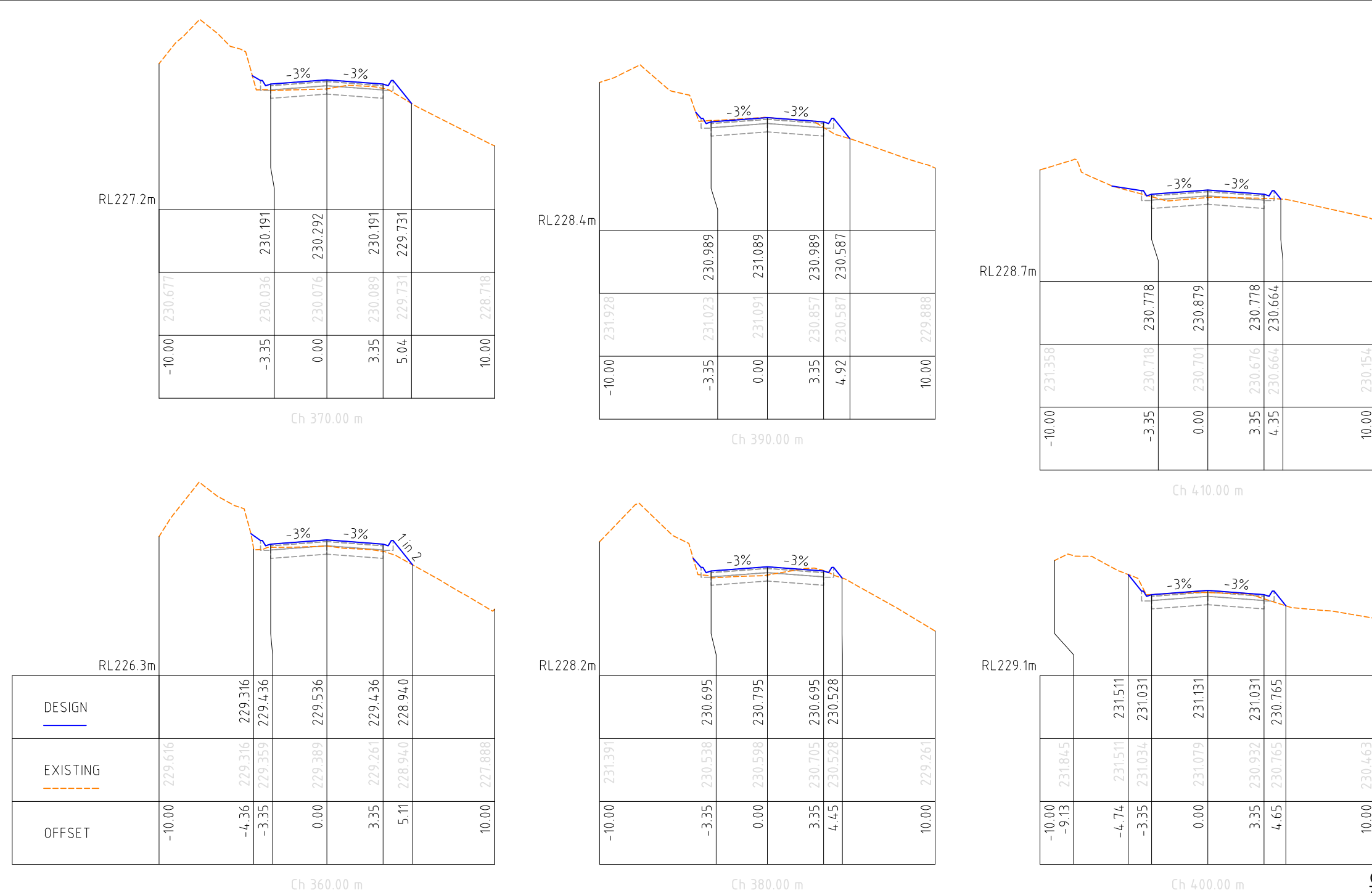
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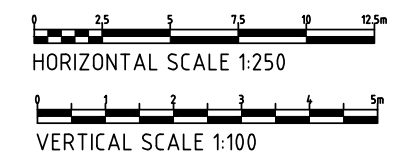
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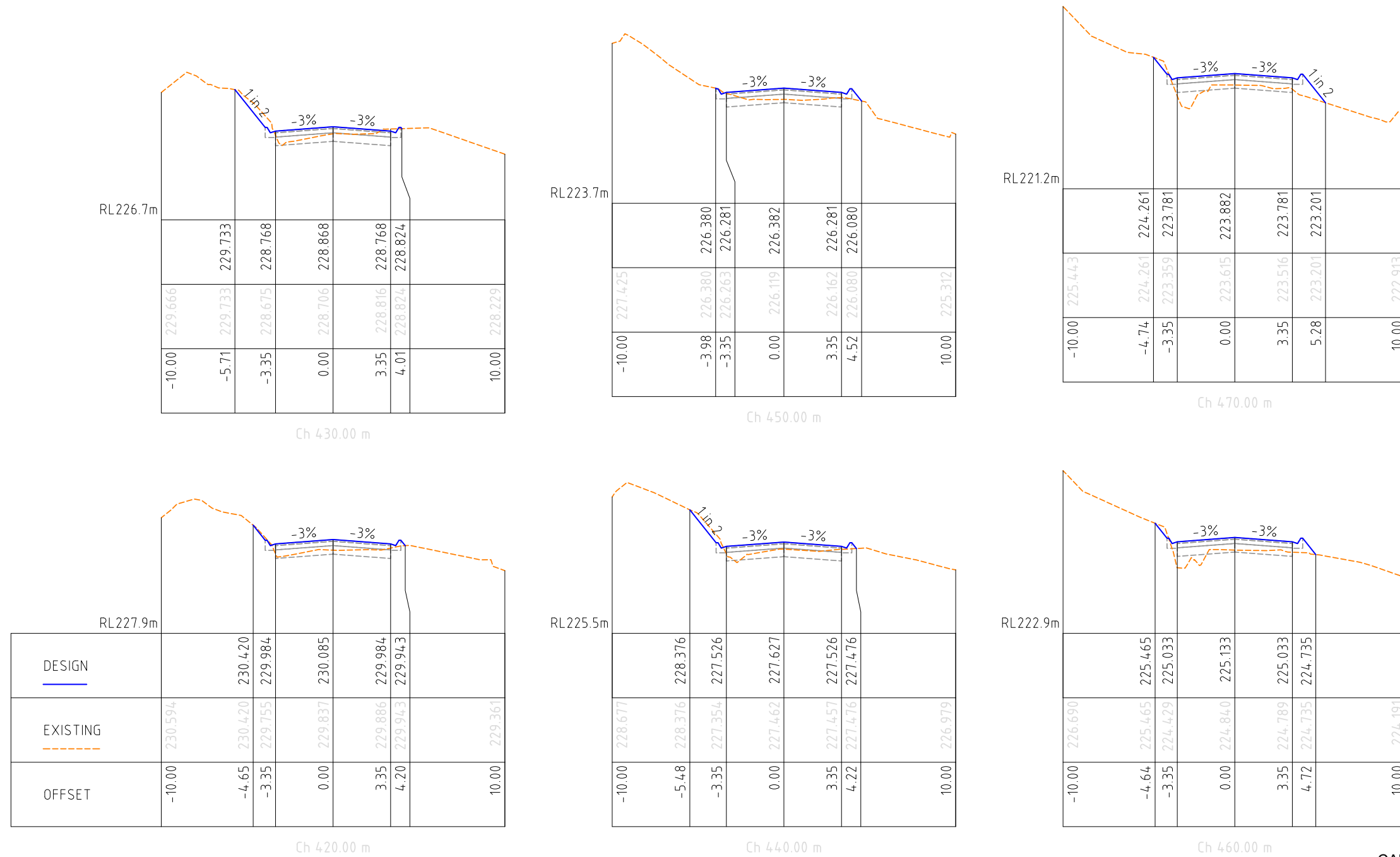
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	229.436	229.261	3.35
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		227.888	10.00

CAROLINE AVENUE CROSS SECTION

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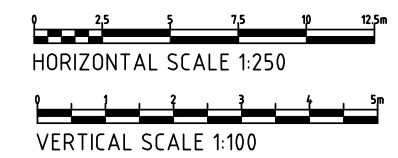


Date: 01.04.2021	Rev: A	Amendments: SUBMITTED FOR COMMENTS	Legend EXISTING KERB AND CHANNEL PROPOSED KERB AND CHANNEL EXISTING DRAINS AND PITS PROPOSED DRAINS AND PITS PROPOSED PROPERTY INLET WATER MAINS AND FITTINGS SEWER GAS MAINS TELECOM CABLES AND PITS EX ---W--- PROP ---W--- EX ---S--- PROP ---S--- EX ---G--- PROP ---G--- EX ---T--- PROP ---T---	THIS DOCUMENT/DRAWING IS PROTECTED BY FEDERAL COPYRIGHT LAW. COPYING IN ANY SHAPE OR FORM, WHOLE OR PART WITHOUT THE WRITTEN AUTHORISATION OF CRAIG CIVIL DESIGN PTY LTD. IS STRICTLY PROHIBITED. CIVIL PROCEEDINGS CLAIMING DAMAGES OR OTHER REMEDIES MAY BE BROUGHT AGAINST PERSONS FOUND COPYING THIS DOCUMENT.	Design: JULY 2020 Date: JULY 2020 Checked: JULY 2020 Date: JULY 2020 Datum: AHD	Scale: AS SHOWN Approved Date: MELWAY Ref:	 Civil Engineering Consultants & Project Managers P.O. Box 1207, Narre Warren 3805 Phone: 5995 4388 Fax: 5995 5330	CARDINIA SHIRE COUNCIL CAROLINE AVENUE & BORONIA CRESCENT COCKATOO ROAD RECONSTRUCTION WORKS CAROLINE AVENUE CROSS SECTION	Drawing No. CCD. 20021 81 Sheet 81 OF 91 Rev A CCD Ref. No. 20021
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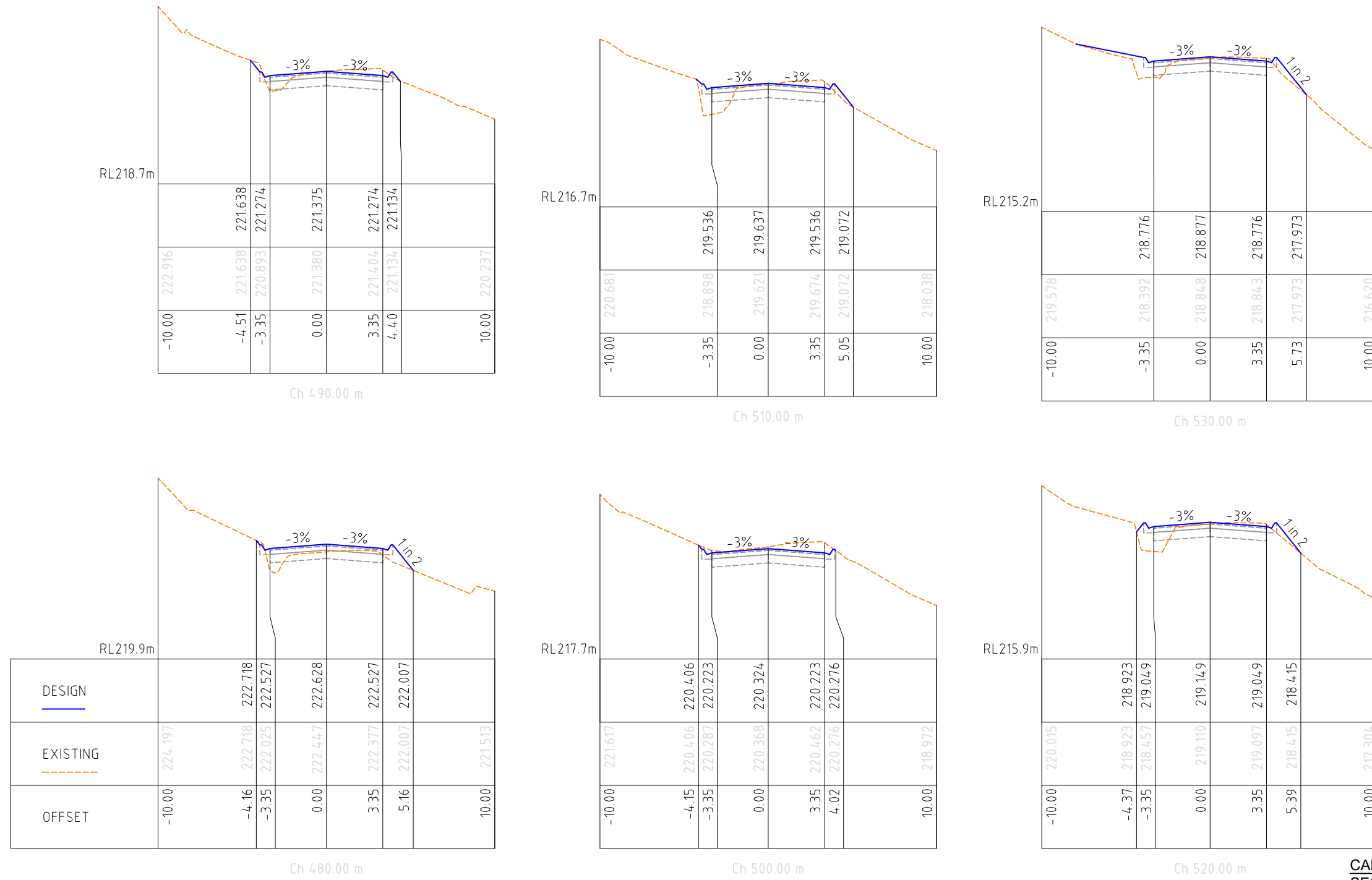


CAROLINE AVENUE CROSS SECTION

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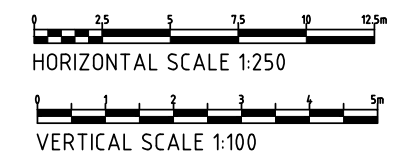


Date: 01.04.2021	Rev: A	Amendments: SUBMITTED FOR COMMENTS	Legend EXISTING KERB AND CHANNEL PROPOSED KERB AND CHANNEL EXISTING DRAINS AND PITS PROPOSED DRAINS AND PITS PROPOSED PROPERTY INLET	WATER MAINS AND FITTINGS SEWER GAS MAINS TELECOM CABLES AND PITS	EX --- W --- PROP --- W --- EX --- S --- PROP --- S --- EX --- G --- PROP --- G --- EX --- T --- PROP --- T ---	THIS DOCUMENT/DRAWING IS PROTECTED BY FEDERAL COPYRIGHT LAW. COPYING IN ANY SHAPE OR FORM, WHOLE OR PART WITHOUT THE WRITTEN AUTHORISATION OF CRAIG CIVIL DESIGN PTY LTD. IS STRICTLY PROHIBITED. CIVIL PROCEEDINGS CLAIMING DAMAGES OR OTHER REMEDIES MAY BE BROUGHT AGAINST PERSONS FOUND COPYING THIS DOCUMENT.	Design: JULY 2020 Date: JULY 2020 Checked: JULY 2020 Date: JULY 2020 Datum: AHD	Scale: AS SHOWN Approved Date: MELWAY Ref:	 Civil Engineering Consultants & Project Managers P.O. Box 1207, Narre Warren 3805 Phone: 5995 4388 Fax: 5995 5330	CARDINIA SHIRE COUNCIL CAROLINE AVENUE & BORONIA CRESCENT COCKATOO ROAD RECONSTRUCTION WORKS CAROLINE AVENUE CROSS SECTION	Drawing No. CCD. 20021 82 Sheet 82 OF 91 Rev A CCD Ref. No. 20021
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CAROLINE AVENUE CROSS SECTION

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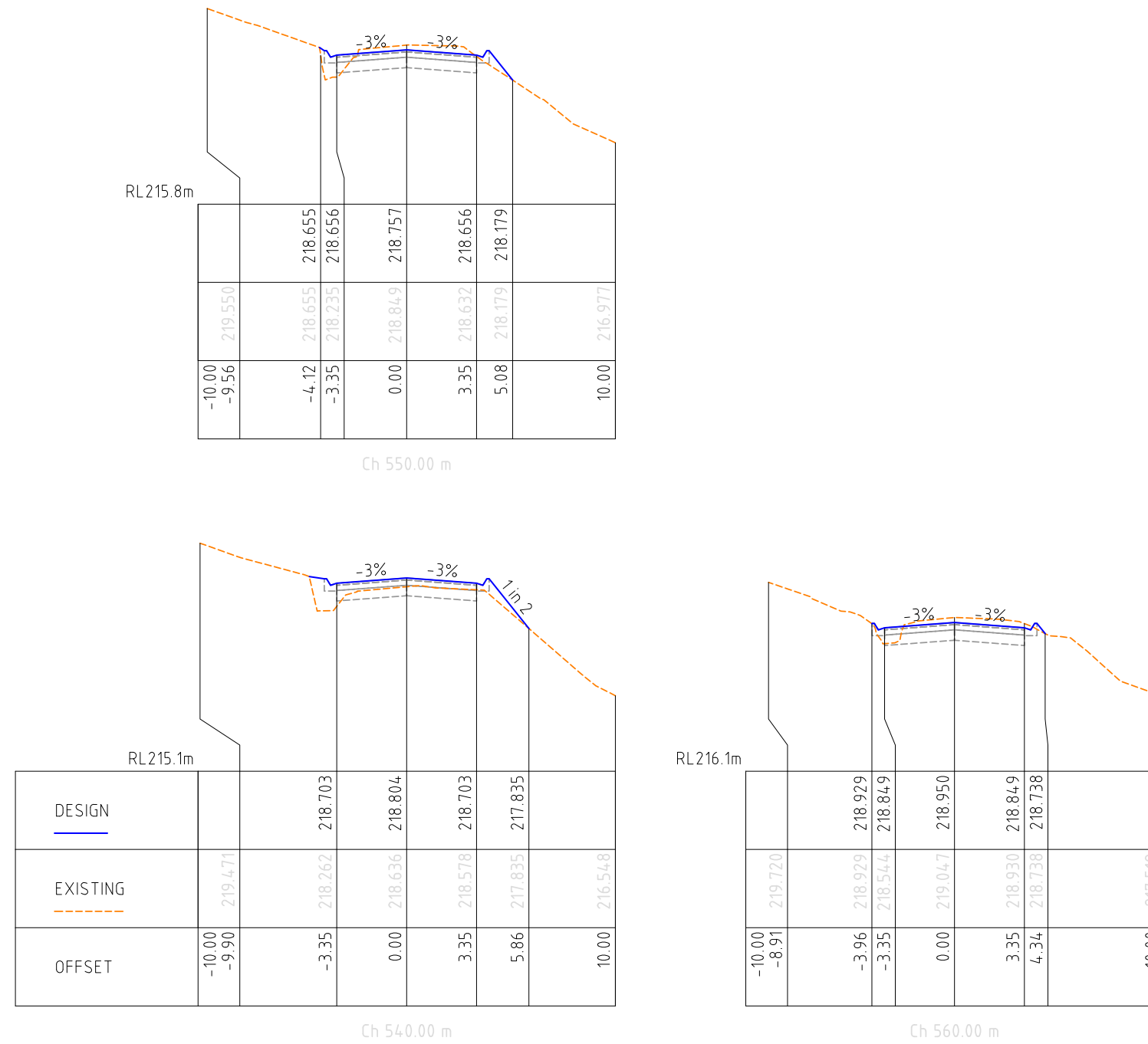
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PROPOSED KERB AND CHANNEL	---
EXISTING DRAINS AND PITS	---
PROPOSED DRAINS AND PITS	---
PROPOSED PROPERTY INLET	---
WATER MAINS AND FITTINGS	---
SEWER	---
GAS MAINS	---
TELECOM CABLES AND PITS	---
EX	---
PROP	---

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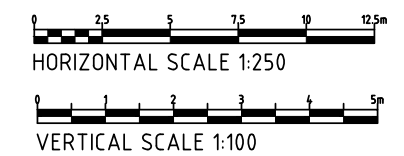
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Civil Engineering Consultants & Project Managers
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Fax: 5995 5330

CARDINIA SHIRE COUNCIL	Drawing No. CCD.
CAROLINE AVENUE & BORONIA CRESCENT	20021 83
COCKATOO	Sheet 83 OF 91
ROAD RECONSTRUCTION WORKS	Rev A
CAROLINE AVENUE CROSS SECTION	CCD Ref. No. 20021



CAROLINE AVENUE CROSS SECTION

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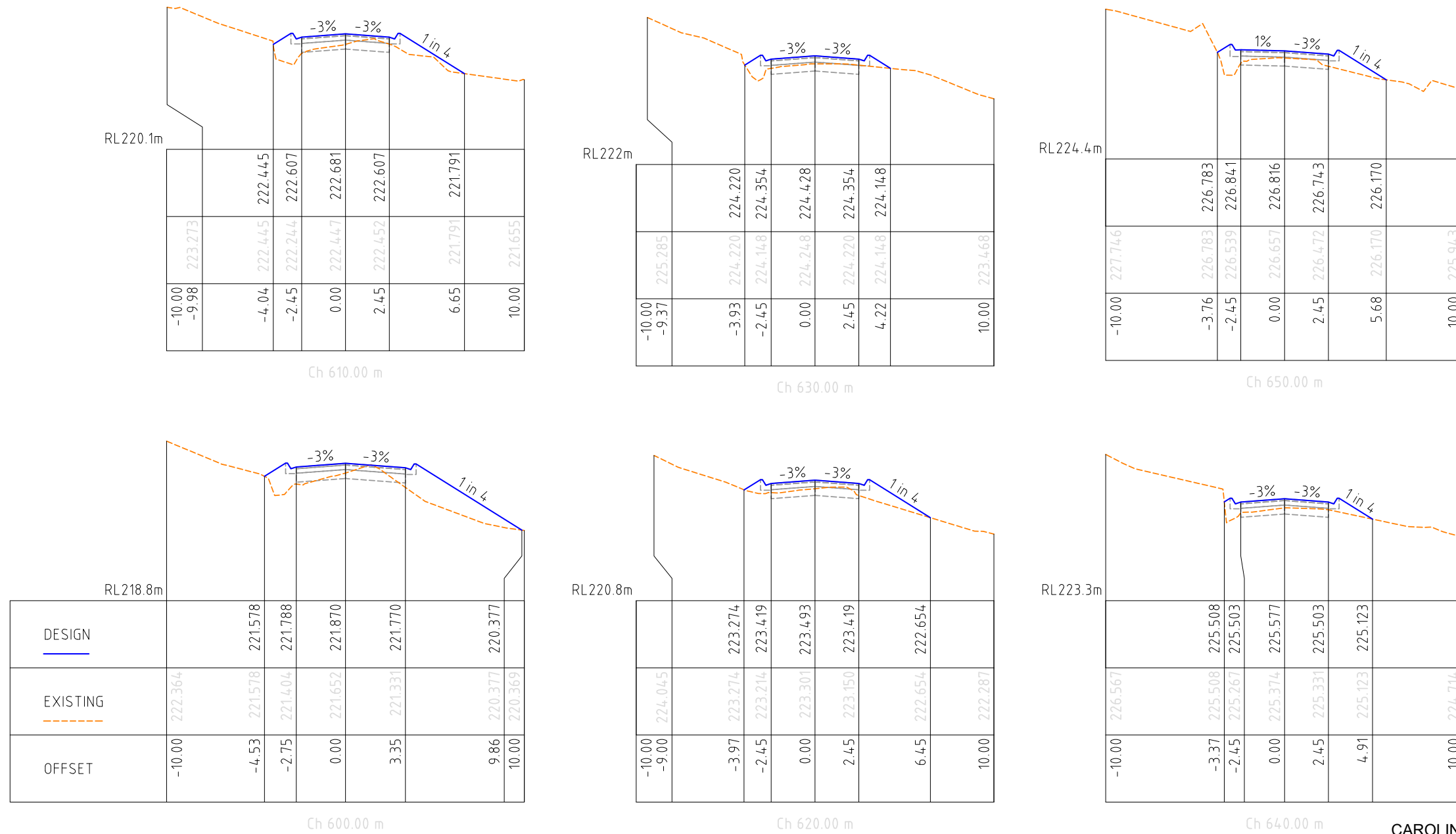
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PROPOSED PROPERTY INLET	---
WATER MAINS AND FITTINGS	---
SEWER	---
GAS MAINS	---
TELECOM CABLES AND PITS	---
EX	---
PROP	---

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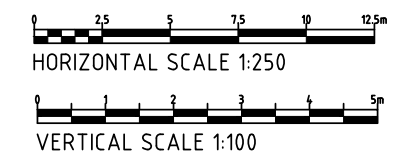
CARDINIA SHIRE COUNCIL
CAROLINE AVENUE & BORONIA CRESCENT
COCKATOO
ROAD RECONSTRUCTION WORKS
CAROLINE AVENUE CROSS SECTION

Drawing No	CCD.
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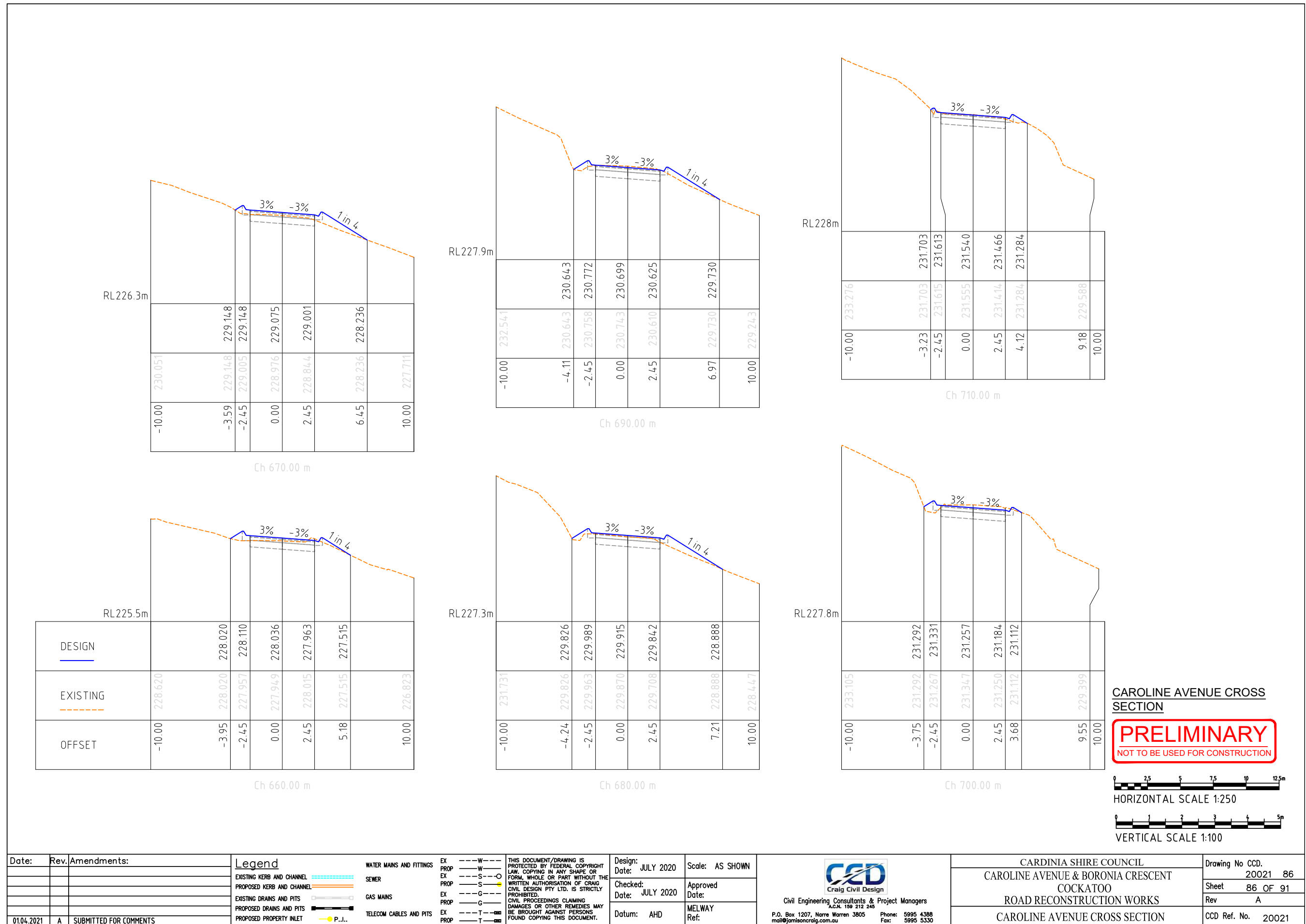


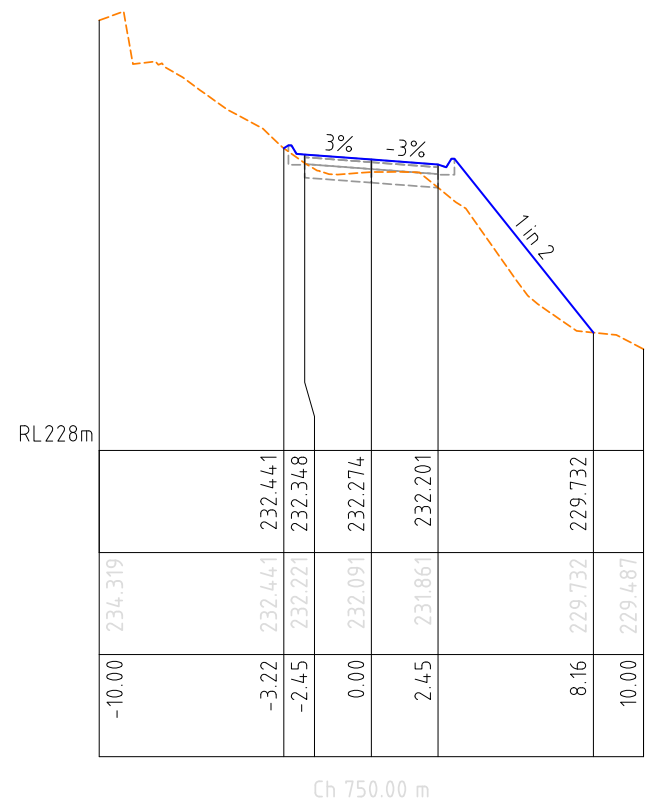
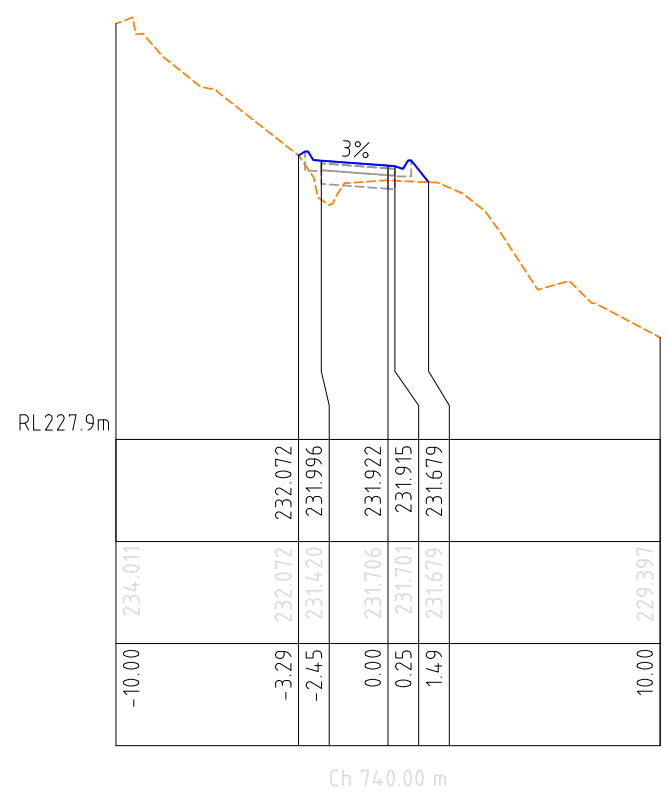
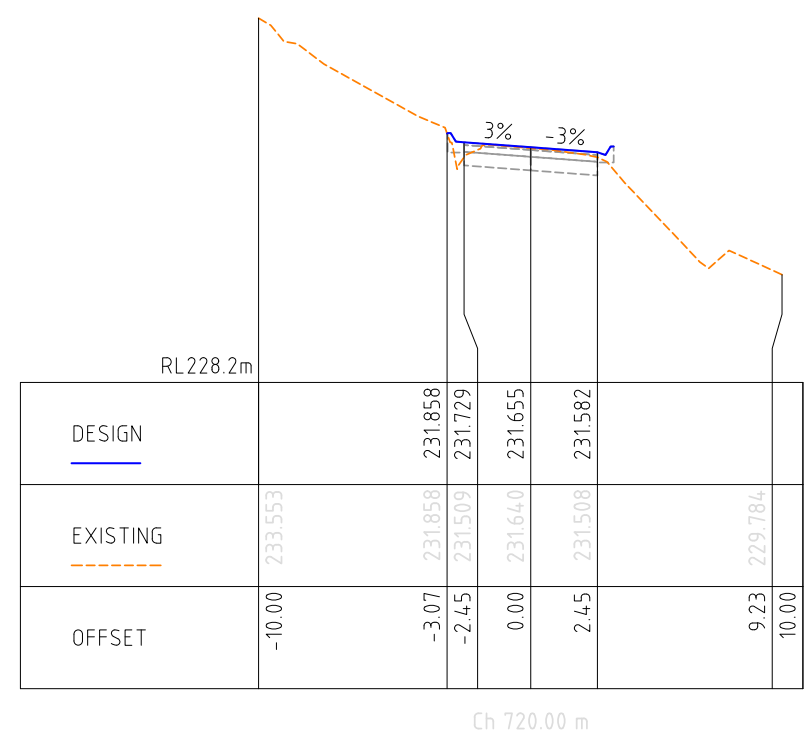
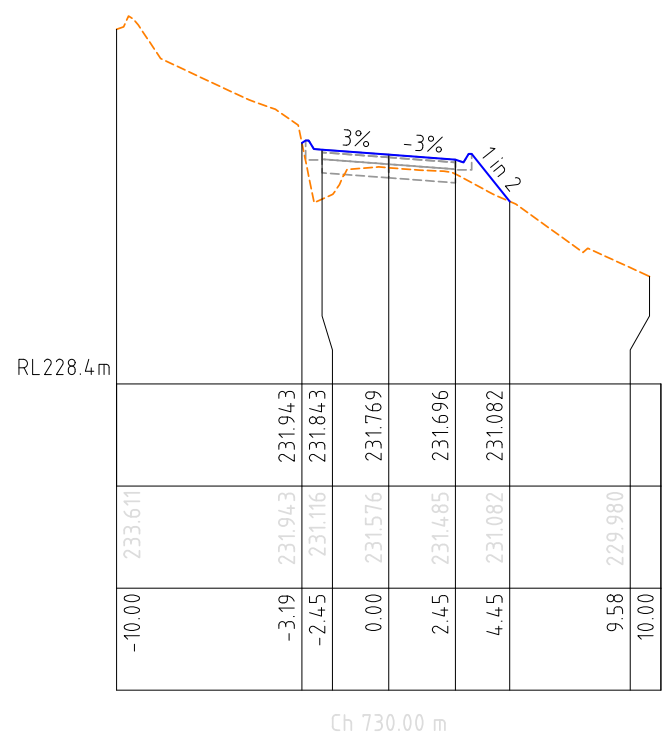
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HORIZONTAL SCALE 1:250
VERTICAL SCALE 1:100

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Legend

EXISTING KERB AND CHANNEL	PROPOSED KERB AND CHANNEL	EXISTING DRAINS AND PITS	PROPOSED DRAINS AND PITS	PROPOSED PROPERTY INLET
WATER MAINS AND FITTINGS	SEWER	GAS MAINS	TELECOM CABLES AND PITS	P.I.L.

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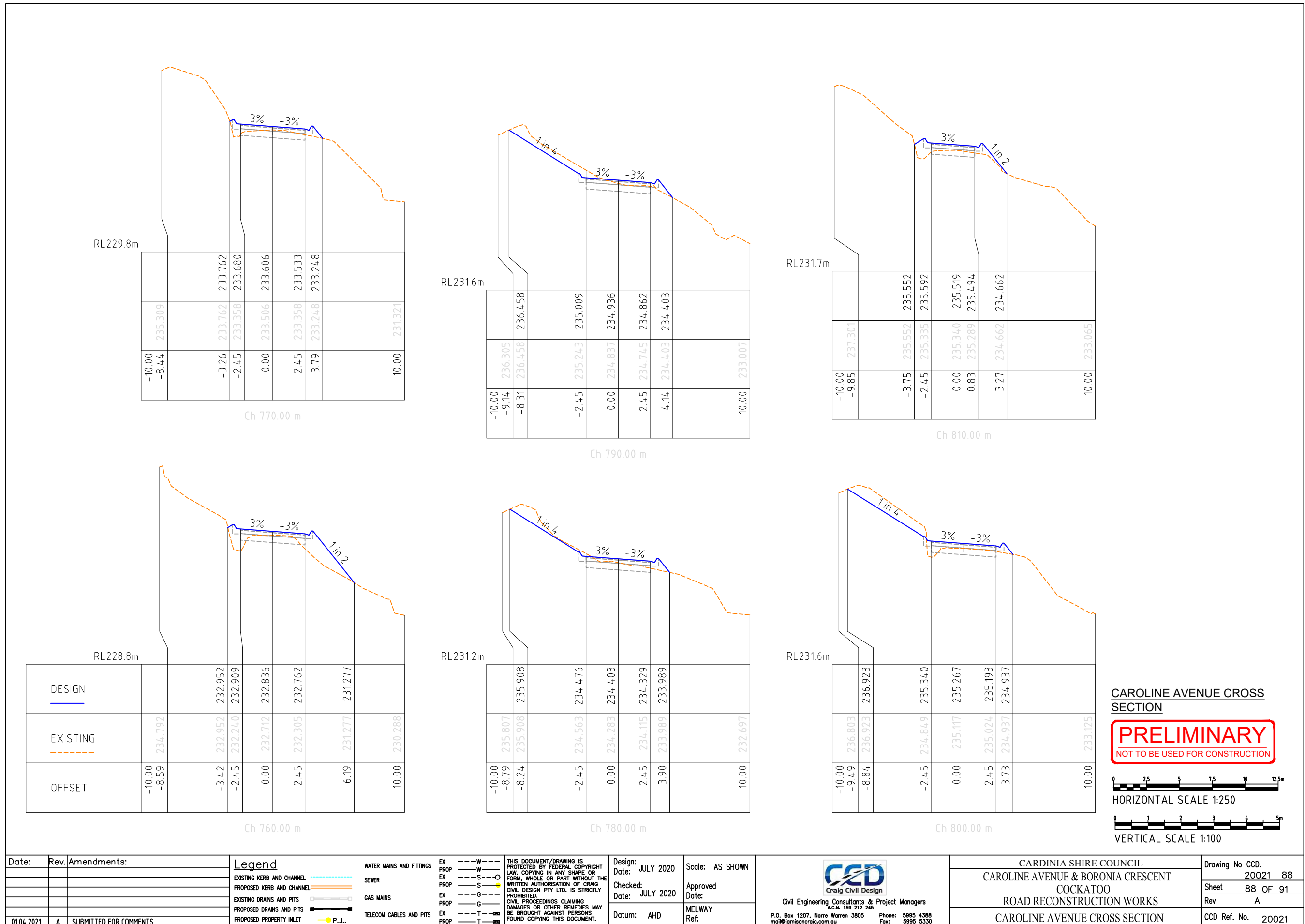
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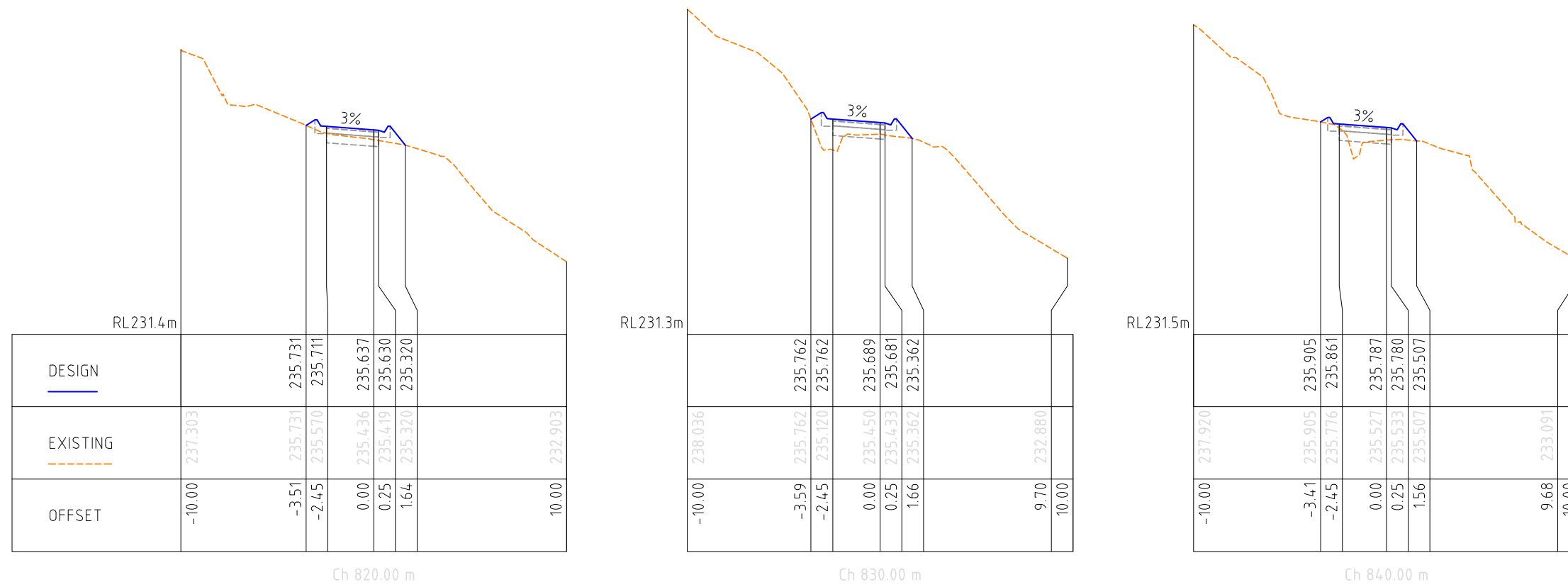
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Ac/n: 159 212 245
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CARDINIA SHIRE COUNCIL
CAROLINE AVENUE & BORONIA CRESCENT
COCKATOO
ROAD RECONSTRUCTION WORKS
CAROLINE AVENUE CROSS SECTION

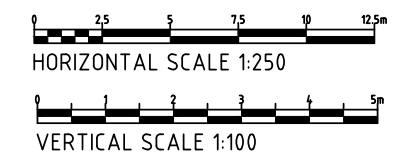
Drawing No	CCD. 20021 87
Sheet	87 OF 91
Rev	A
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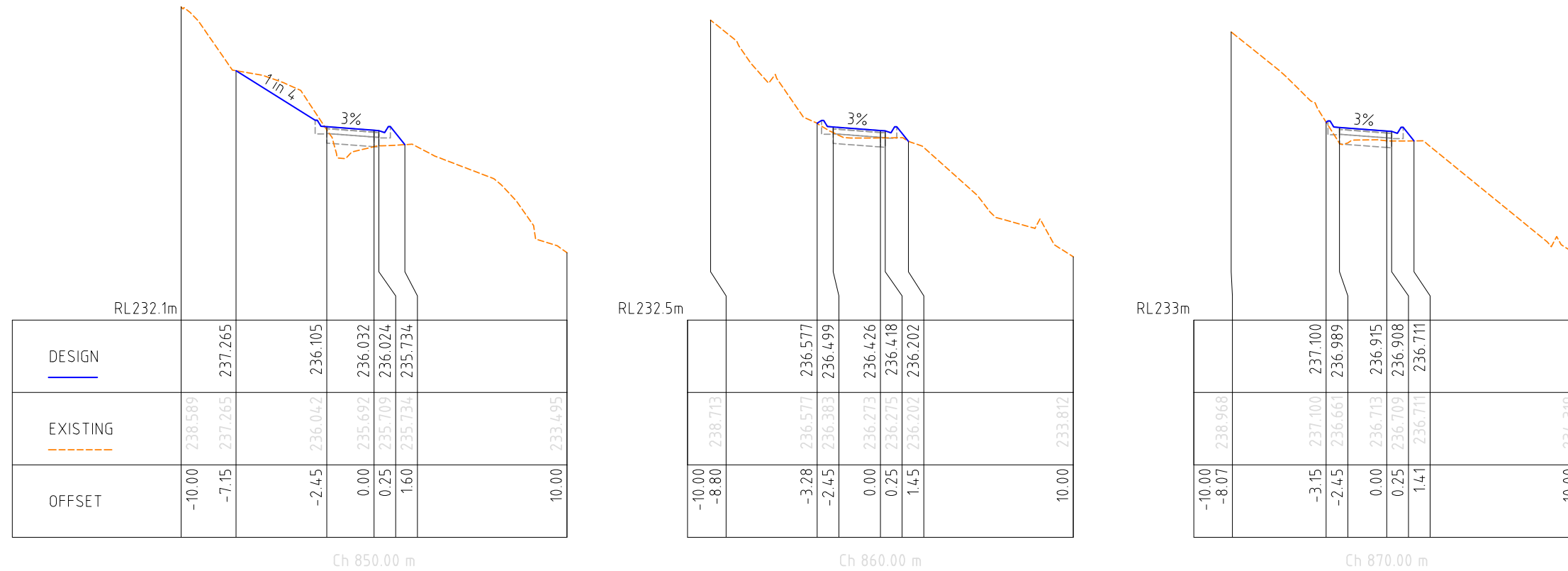


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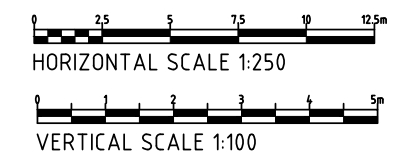


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01.04.2021	A	SUBMITTED FOR COMMENTS

Legend	
EXISTING KERB AND CHANNEL	---W---
PROPOSED KERB AND CHANNEL	---W---
EXISTING DRAINS AND PITS	---S---O
PROPOSED DRAINS AND PITS	---S---
PROPOSED PROPERTY INLET	---G---
	---G---
	---T---
	---T---
	P.I.

WATER MAINS AND FITTINGS
SEWER
GAS MAINS
TELECOM CABLES AND PITS

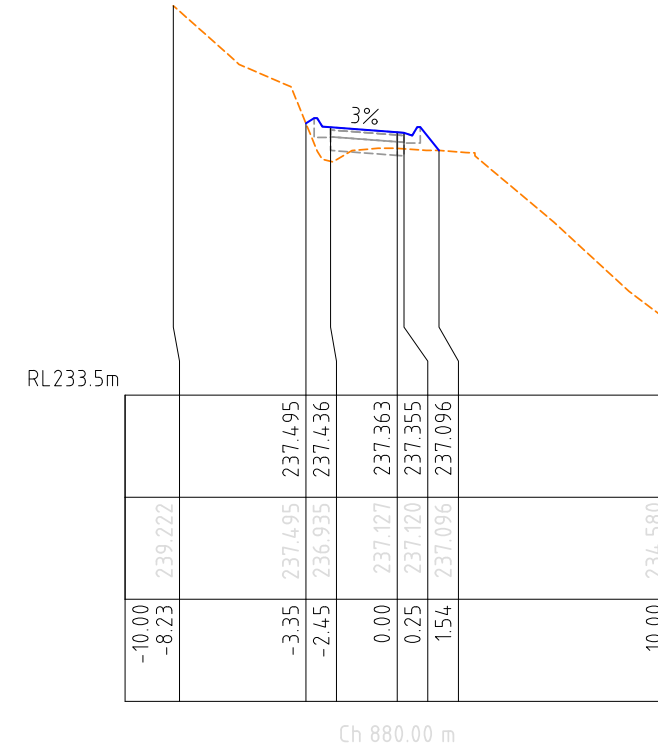
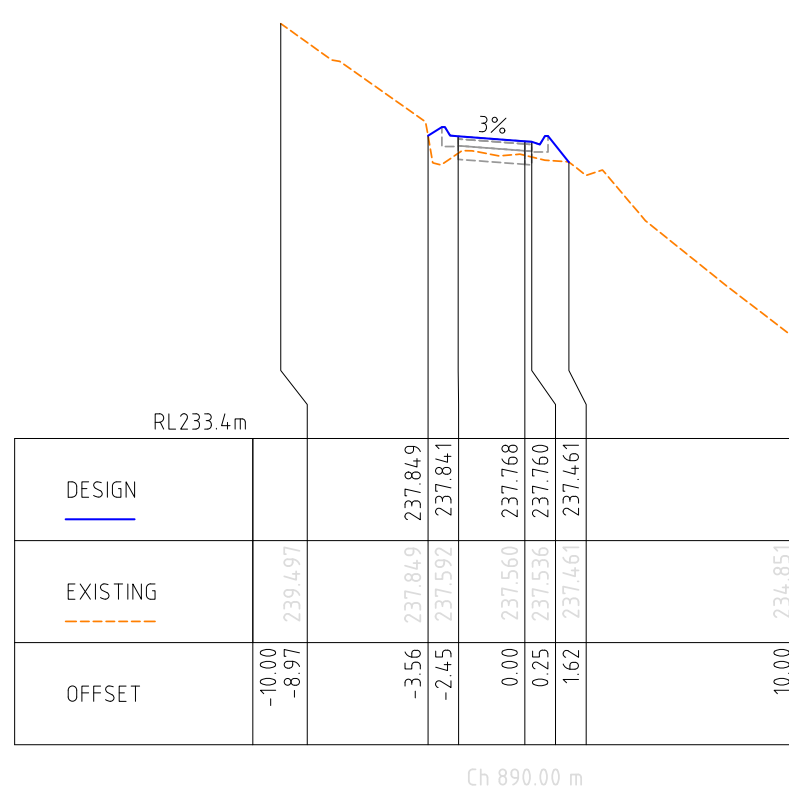
EX ---W---
PROP ---W---
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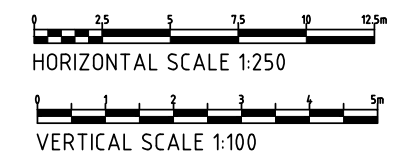
CARDINIA SHIRE COUNCIL
CAROLINE AVENUE & BORONIA CRESCENT
COCKATOO
ROAD RECONSTRUCTION WORKS
CAROLINE AVENUE CROSS SECTION

Drawing No CCD. 20021 90
Sheet 90 OF 91
Rev A
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CAROLINE AVENUE CROSS SECTION

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Date:	Rev.	Amendments:
01.04.2021	A	SUBMITTED FOR COMMENTS

Legend	
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PROPOSED KERB AND CHANNEL	---
EXISTING DRAINS AND PITS	---
PROPOSED DRAINS AND PITS	---
PROPOSED PROPERTY INLET	---
WATER MAINS AND FITTINGS	---
SEWER	---
GAS MAINS	---
TELECOM CABLES AND PITS	---
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mail@jamisoncraig.com.au

CARDINIA SHIRE COUNCIL
CAROLINE AVENUE & BORONIA CRESCENT
COCKATOO
ROAD RECONSTRUCTION WORKS
CAROLINE AVENUE CROSS SECTION

Drawing No	CCD. 20021 91
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Rev	A
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Major Roads Program - Special Charge Scheme (SCS) Apportionment Sheet

Caroline Avenue, Boronia Crescent, Rouen Road Cockatoo Catchment

Project Cost Summary:	
Total Project Cost (Inc. Design, Supervision/Admin & Offset)	\$2,019,400
Total Council Contribution	\$1,420,900
Total Landowner Contribution	\$ 598,500.00
Financing Costs	\$52,369

Council Cost Summary:	
Council 30% Contribution	\$605,820
Subsidy for costs above FedFund ceiling	\$ 815,080.00
Total Council Cost	\$ 1,420,900.00

Apportionment Summary:	
Unit Ratio =	100%
Total Landowner Units =	85.5
Total Council Units =	Nil
\$ / Unit =	16,533
FedFund Ceiling \$/ Unit =	\$7,000

DESCRIPTION	PROPERTY ADDRESS	ASSESSMENT NO.	DEVELOPMENT / BENEFIT UNIT	CHARGE FOR THE WORKS	ADJUSTED FOR CEILING	FINANCING CHARGE	TOTAL CHARGE	YEARLY CHARGE
L2 PS731198 V11610 F978	1 Boronia Cres	5000020665	0.5	\$ 8,266.50	\$ 3,500.00	\$ 306.25	\$ 3,806.25	\$ 543.75
L1 TP617875	4 Boronia Cres	2113450200	0.5	\$ 8,266.50	\$ 3,500.00	\$ 306.25	\$ 3,806.25	\$ 543.75
L2 PS745379 V11641 F676	5 Boronia Cres	2113400300	1	\$ 16,533.00	\$ 7,000.00	\$ 612.50	\$ 7,612.50	\$ 1,087.50
L3 PS745379 V11641 F677	7 Boronia Cres	2113400400	1	\$ 16,533.00	\$ 7,000.00	\$ 612.50	\$ 7,612.50	\$ 1,087.50
L1 TP101474	8 Boronia Cres	2113450300	1	\$ 16,533.00	\$ 7,000.00	\$ 612.50	\$ 7,612.50	\$ 1,087.50
L1 TP86938 V9628 F9521	9 Boronia Cres	2113400500	1	\$ 16,533.00	\$ 7,000.00	\$ 612.50	\$ 7,612.50	\$ 1,087.50
L101 LP9628	10 Boronia Cres	2113450400	1	\$ 16,533.00	\$ 7,000.00	\$ 612.50	\$ 7,612.50	\$ 1,087.50
L26 LP9628;L1 TP198797	11-13 Boronia Cres	2113400601	2	\$ 33,066.00	\$ 14,000.00	\$ 1,225.00	\$ 15,225.00	\$ 2,175.00
L100 LP9628 V6921 F075	12 Boronia Cres	2113450500	1	\$ 16,533.00	\$ 7,000.00	\$ 612.50	\$ 7,612.50	\$ 1,087.50
L1 TP94036	14 Boronia Cres	2113450600	1	\$ 16,533.00	\$ 7,000.00	\$ 612.50	\$ 7,612.50	\$ 1,087.50
L98 LP9628 V7097 F237	16 Boronia Cres	2113450700	1	\$ 16,533.00	\$ 7,000.00	\$ 612.50	\$ 7,612.50	\$ 1,087.50
L97 LP9628 V7530 F063	18 Boronia Cres	2113450800	1	\$ 16,533.00	\$ 7,000.00	\$ 612.50	\$ 7,612.50	\$ 1,087.50
L96 LP9628 V7097 F241	20 Boronia Cres	2113450900	1	\$ 16,533.00	\$ 7,000.00	\$ 612.50	\$ 7,612.50	\$ 1,087.50
L1 TP579887 V9526 F727	22 Boronia Cres	2113451000	1	\$ 16,533.00	\$ 7,000.00	\$ 612.50	\$ 7,612.50	\$ 1,087.50
CP150472	24-26 Boronia Cres	2113451100	1	\$ 16,533.00	\$ 7,000.00	\$ 612.50	\$ 7,612.50	\$ 1,087.50
L92 LP9628	28 Boronia Cres	2113451200	1	\$ 16,533.00	\$ 7,000.00	\$ 612.50	\$ 7,612.50	\$ 1,087.50
L91 LP9628 V371 F8989	30 Boronia Cres	2113451300	1	\$ 16,533.00	\$ 7,000.00	\$ 612.50	\$ 7,612.50	\$ 1,087.50
L32 LP22184	3 Bell St	2085550100	1	\$ 16,533.00	\$ 7,000.00	\$ 612.50	\$ 7,612.50	\$ 1,087.50
L1-2 TP551821	4-6 Bell St	2085500200	0.5	\$ 8,266.50	\$ 3,500.00	\$ 306.25	\$ 3,806.25	\$ 543.75
L1 TP142119	3 Belgrave-Gembrook Rd	5000005528						
L37-44 55-62 P9628	19-33 Belgrave-Gembrook Rd	2084659200	9	\$ 148,797.00	\$ 63,000.00	\$ 5,512.50	\$ 68,512.50	\$ 9,787.50
L71 LP9628	1 Caroline Ave	2165600100	1	\$ 16,533.00	\$ 7,000.00	\$ 612.50	\$ 7,612.50	\$ 1,087.50
L70 LP9628	2 Caroline Ave	2165650100	1	\$ 16,533.00	\$ 7,000.00	\$ 612.50	\$ 7,612.50	\$ 1,087.50
L1 TP555113	3 Caroline Ave	2165600200	1	\$ 16,533.00	\$ 7,000.00	\$ 612.50	\$ 7,612.50	\$ 1,087.50
L69 LP9628	4 Caroline Ave	2165650200	1	\$ 16,533.00	\$ 7,000.00	\$ 612.50	\$ 7,612.50	\$ 1,087.50
CP156159	5 Caroline Ave	2165600300	1	\$ 16,533.00	\$ 7,000.00	\$ 612.50	\$ 7,612.50	\$ 1,087.50
L1 TP577831	6 Caroline Ave	2165650300	1	\$ 16,533.00	\$ 7,000.00	\$ 612.50	\$ 7,612.50	\$ 1,087.50
L75 LP9628 V6921 F074	7 Caroline Ave	2165600400	1	\$ 16,533.00	\$ 7,000.00	\$ 612.50	\$ 7,612.50	\$ 1,087.50
L67 LP9628	8 Caroline Ave	2165650400	1	\$ 16,533.00	\$ 7,000.00	\$ 612.50	\$ 7,612.50	\$ 1,087.50
L1 TP654341 V9406 F515	9 Caroline Ave	2165600500	1	\$ 16,533.00	\$ 7,000.00	\$ 612.50	\$ 7,612.50	\$ 1,087.50
L66 LP9628 V7332 F311	10 Caroline Ave	2165650500	1	\$ 16,533.00	\$ 7,000.00	\$ 612.50	\$ 7,612.50	\$ 1,087.50
L77 LP9628	11 Caroline Ave	2165600600	1	\$ 16,533.00	\$ 7,000.00	\$ 612.50	\$ 7,612.50	\$ 1,087.50
L65 LP9628 V7307 F336	12 Caroline Ave	2165650600	1	\$ 16,533.00	\$ 7,000.00	\$ 612.50	\$ 7,612.50	\$ 1,087.50
L78 LP9628	13 Caroline Ave	2165600700	1	\$ 16,533.00	\$ 7,000.00	\$ 612.50	\$ 7,612.50	\$ 1,087.50
L64 LP9628	14 Caroline Ave	2165650700	1	\$ 16,533.00	\$ 7,000.00	\$ 612.50	\$ 7,612.50	\$ 1,087.50

L1 TP166496;L1 TP188641	15 Caroline Ave	2165600800	2	\$ 33,066.00	\$ 14,000.00	\$ 1,225.00	\$ 15,225.00	\$ 2,175.00
L1 TP106069 V9666 F993	19 Caroline Ave	2165600900	1	\$ 16,533.00	\$ 7,000.00	\$ 612.50	\$ 7,612.50	\$ 1,087.50
L82 LP9628	21 Caroline Ave	2165601000	1	\$ 16,533.00	\$ 7,000.00	\$ 612.50	\$ 7,612.50	\$ 1,087.50
L83 LP9628 V7179 F731	23 Caroline Ave	2165601100	1	\$ 16,533.00	\$ 7,000.00	\$ 612.50	\$ 7,612.50	\$ 1,087.50
L84 LP9628 V7141 F191	25 Caroline Ave	2165601200	1	\$ 16,533.00	\$ 7,000.00	\$ 612.50	\$ 7,612.50	\$ 1,087.50
L85 P9628	27 Caroline Ave	2165601300	1	\$ 16,533.00	\$ 7,000.00	\$ 612.50	\$ 7,612.50	\$ 1,087.50
L86 LP9628 V8844 F759	29 Caroline Ave	2165601400	1	\$ 16,533.00	\$ 7,000.00	\$ 612.50	\$ 7,612.50	\$ 1,087.50
L87 LP9628	31 Caroline Ave	2165601500	1	\$ 16,533.00	\$ 7,000.00	\$ 612.50	\$ 7,612.50	\$ 1,087.50
L88 P9628 GEM	33 Caroline Ave	2165601600	1	\$ 16,533.00	\$ 7,000.00	\$ 612.50	\$ 7,612.50	\$ 1,087.50
L1 TP115452	34 Caroline Ave	2165650900	1	\$ 16,533.00	\$ 7,000.00	\$ 612.50	\$ 7,612.50	\$ 1,087.50
L89 LP9628	35 Caroline Ave	2165601700	1	\$ 16,533.00	\$ 7,000.00	\$ 612.50	\$ 7,612.50	\$ 1,087.50
L1 TP196531 V9231 F487	36 Caroline Ave	2165651000	1	\$ 16,533.00	\$ 7,000.00	\$ 612.50	\$ 7,612.50	\$ 1,087.50
L90 LP9628	37 Caroline Ave	2165601800	1	\$ 16,533.00	\$ 7,000.00	\$ 612.50	\$ 7,612.50	\$ 1,087.50
L1 TP165940	38 Caroline Ave	2165651100	1	\$ 16,533.00	\$ 7,000.00	\$ 612.50	\$ 7,612.50	\$ 1,087.50
L33 P22184	39 Caroline Ave	2165601900	1	\$ 16,533.00	\$ 7,000.00	\$ 612.50	\$ 7,612.50	\$ 1,087.50
L34 LP22184	41 Caroline Ave	2165602000	1	\$ 16,533.00	\$ 7,000.00	\$ 612.50	\$ 7,612.50	\$ 1,087.50
L35 LP22184 V8683 F861	43 Caroline Ave	2165602100	1	\$ 16,533.00	\$ 7,000.00	\$ 612.50	\$ 7,612.50	\$ 1,087.50
L30 LP22184	44 Caroline Ave	2165651200	1	\$ 16,533.00	\$ 7,000.00	\$ 612.50	\$ 7,612.50	\$ 1,087.50
L36 LP22184 V8142 F738	45 Caroline Ave	2165602200	1	\$ 16,533.00	\$ 7,000.00	\$ 612.50	\$ 7,612.50	\$ 1,087.50
L29 LP22184	46 Caroline Ave	2165651300	1	\$ 16,533.00	\$ 7,000.00	\$ 612.50	\$ 7,612.50	\$ 1,087.50
L1 TP111293 V9541 F852	47 Caroline Ave	2165602300	1	\$ 16,533.00	\$ 7,000.00	\$ 612.50	\$ 7,612.50	\$ 1,087.50
L28 LP22184 V8117 F830	48 Caroline Ave	2165651400	1	\$ 16,533.00	\$ 7,000.00	\$ 612.50	\$ 7,612.50	\$ 1,087.50
L1 TP99412	49 Caroline Ave	2165602400	1	\$ 16,533.00	\$ 7,000.00	\$ 612.50	\$ 7,612.50	\$ 1,087.50
L27 LP22184 V8808 F382	50 Caroline Ave	2165651500	1	\$ 16,533.00	\$ 7,000.00	\$ 612.50	\$ 7,612.50	\$ 1,087.50
L39 LP22184	51 Caroline Ave	2165602500	1	\$ 16,533.00	\$ 7,000.00	\$ 612.50	\$ 7,612.50	\$ 1,087.50
L26 LP22184 V8421 F427	52 Caroline Ave	2165651600	1	\$ 16,533.00	\$ 7,000.00	\$ 612.50	\$ 7,612.50	\$ 1,087.50
L40 LP22184	53 Caroline Ave	2165602600	1	\$ 16,533.00	\$ 7,000.00	\$ 612.50	\$ 7,612.50	\$ 1,087.50
L1 TP134289 V9528 F624	54 Caroline Ave	2165651700	1	\$ 16,533.00	\$ 7,000.00	\$ 612.50	\$ 7,612.50	\$ 1,087.50
L41 LP22184 V8500 F176	55 Caroline Ave	2165602700	1	\$ 16,533.00	\$ 7,000.00	\$ 612.50	\$ 7,612.50	\$ 1,087.50
L24 LP22184 V8612 F292	56 Caroline Ave	2165651800	1	\$ 16,533.00	\$ 7,000.00	\$ 612.50	\$ 7,612.50	\$ 1,087.50
L42 LP22184	57 Caroline Ave	2165602800	1	\$ 16,533.00	\$ 7,000.00	\$ 612.50	\$ 7,612.50	\$ 1,087.50
L23 LP22184	58 Caroline Ave	2165651900	1	\$ 16,533.00	\$ 7,000.00	\$ 612.50	\$ 7,612.50	\$ 1,087.50
L43 LP22184 V8612 F291	59 Caroline Ave	2165602900	1	\$ 16,533.00	\$ 7,000.00	\$ 612.50	\$ 7,612.50	\$ 1,087.50
L1 TP107620	60 Caroline Ave	2165652000	1	\$ 16,533.00	\$ 7,000.00	\$ 612.50	\$ 7,612.50	\$ 1,087.50
L44 LP22184	61 Caroline Ave	2165603000	1	\$ 16,533.00	\$ 7,000.00	\$ 612.50	\$ 7,612.50	\$ 1,087.50
L21 LP22184	62 Caroline Ave	2165652100	1	\$ 16,533.00	\$ 7,000.00	\$ 612.50	\$ 7,612.50	\$ 1,087.50
L1 TP166553	64 Caroline Ave	2165652200	1	\$ 16,533.00	\$ 7,000.00	\$ 612.50	\$ 7,612.50	\$ 1,087.50
L1 TP181179	66 Caroline Ave	2165652300	1	\$ 16,533.00	\$ 7,000.00	\$ 612.50	\$ 7,612.50	\$ 1,087.50
L18 LP22184	68 Caroline Ave	2165652400	1	\$ 16,533.00	\$ 7,000.00	\$ 612.50	\$ 7,612.50	\$ 1,087.50
L24 LP9628	1 Rouen Rd	2742550100	1	\$ 16,533.00	\$ 7,000.00	\$ 612.50	\$ 7,612.50	\$ 1,087.50
L23 LP9628 V4966 F154	3 Rouen Rd	2742550200	1	\$ 16,533.00	\$ 7,000.00	\$ 612.50	\$ 7,612.50	\$ 1,087.50
L1 TP144947 V9989 F384	5 Rouen Rd	2742550300	1	\$ 16,533.00	\$ 7,000.00	\$ 612.50	\$ 7,612.50	\$ 1,087.50
PC350371 V10106 F309	7-9 Rouen Rd	2742550400	1	\$ 16,533.00	\$ 7,000.00	\$ 612.50	\$ 7,612.50	\$ 1,087.50
		Total	85.5	\$ 1,413,571.50	\$ 598,500.00	\$ 52,368.75	\$ 650,868.75	\$ 92,981.25

Notes

Total project cost includes 15% design/supervision/admin allowance
 Financing charge estimated on 5% interest paid in quarterly installments over a 7 year repayment period
 2 benefit units attributed to properties/assessments containing 2 titles.

No 1 & No 4 Borinia Crescent attributed half a benefit unit as half of frontage already fully constructed

* Uncertainty of including 3 Belgrave/Gembrook Road as only 1.49m rear abuttal to Boronia Crescent