

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

Responsible GM:Peter BenazicAuthor:Ken White

Recommendation(s)

That Council:

- 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 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]
- Caroline Avenue Cockatoo Catchment Special Charge Scheme (SCS) 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.

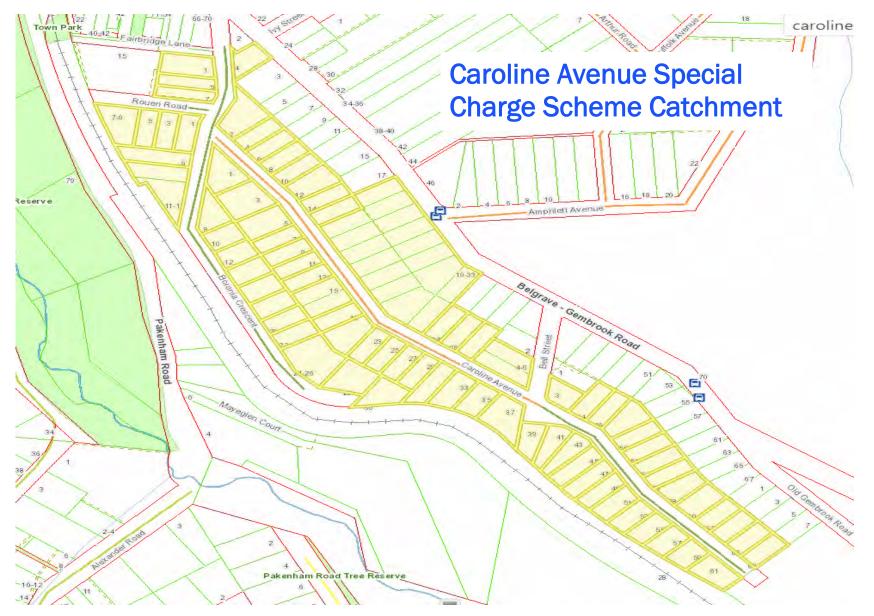
SEALING THE HILLS PROGRAM -

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.
~	<i>Approval to prepare scheme</i>	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.
Construction	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.
Final Cost Report	At the completion of the works the scheme is "finalised" and a report presented to Council.



ROAD RECONSTRUCTION WORKS: CAROLINE AVE & BORONIA CRESCENT, COCKATOO

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FACE SHEET AND LOCALITY PLAN

Α CCD Ref. No. 20021

GENERAL NOTES:

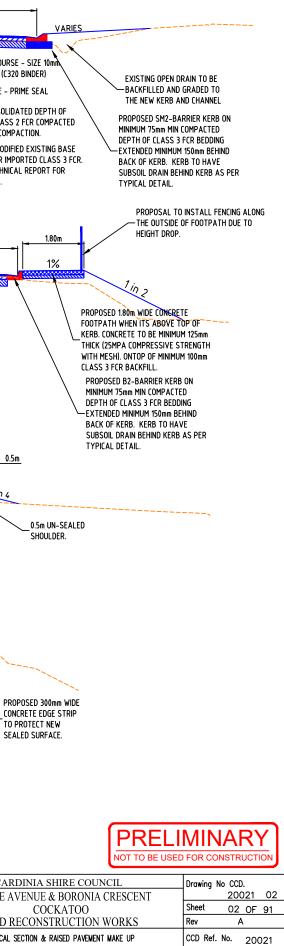
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A TEMPORARY 1.8m CONSTRUCTION HIGH POST & WIRE FENCE SHALL BE ERECTED AND MAINTAINED AROUND EXISTING TREES, NOMINATED TO BE RETAINED AS PER A TREE PROTECTION ZONE (TP2) CONDITION, AT ALL TIMES DURING CONSTRUCTION, UNDER NO CIRCUMSTANCES SHALL SITE SHEDS, VEHICLES, MACHINERY AND EQUIPMENT BE STORED OR PLACED WITHIN FENCED ZONE OF THESE TREES. REFER TO GEOTECHNICAL REPORT FOR FURTHER DETAILS. 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: i. SERVICE TRENCHES BENEATH THE ROAD PAVEMENT, FOOTPATH OR DRIVEWAY CROSSOVER, TO THE UNDERSIDE OF THE PAVEMENT OR CROSSOVER BEDDING WITH 20MM CLASS 3 FOR WITH 3% CEMENT ADDITIVE. 3.65m 3.65m VARIES 3% -3% II. 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 136 088 TOLL FREE **OR** (3) 9641 1444 TO OBTAIN FORM. • FAX FORMS TO: (3) 9655 9400 **CR** 9341 0555. EXISTING OPEN DRAIN TO BE BACKFILLED AND GRADED TO 13. ALL CONCRETE TO BE USED IN THE CONTRACT WORKS SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 25 MPA AT 28 DAYS THE NEW KERB AND CHANNEL 14. 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. PROPOSED SM2-BARRIER KERB ON MINIMUM 75mm MIN COMPACTED SAME PAVEMENT MAKE 15. 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. DEPTH OF CLASS 3 FCR BEDDING UP AS ABOVE EXTENDED MINIMUM 150mm BEHIND MINIMUM COVER TO OBVERT OF DRAINAGE PIPES SHALL BE 300MM IN EASEMENTS AND 500MM IN ROAD RESERVES, EXCEPT WHERE PIPE CLASS '4' WILL BE INSTALLED BACK OF KERB. KERB TO HAVE 17. 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 55% 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' TYPED REPORT NOMINATING THE EXTENT OF FILL PLACED. IT'S CONFORMANCE WITH THE SPECIFICATION AND IT'S CLASSIFICATION AS 'CONTROLLED FILL'. IF ANY SUBSTANDARD FILLING IS ENCOUNTERED ON THE SITE IT MUST BE REMOVED AND REPLACED WITH APPROVED FILL MATERIAL PROPERLY COMPACIED TO COUNCIL REQUIREMENTS. A GEO-TECHNICAL REPORT MUST BE SUBMITTED SHOWING DETAILS OF DEPTH, TYPE OF MATERIAL AND DENSITY OF THE FILL AREAS CONCERNED. SUBSOIL DRAIN BEHIND KERB AS PER TYPICAL DETAIL. 18. 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. 2.75m 2.75m 0.5m -3% -3% 19. BATTERS SHALL BE 1 IN 6 MINIMUM UNLESS OTHERWISE APPROVED AND COVERED AND SMOOTHED WITH MINIMUM OF 100MM TOPSOIL 20 ROAD PAVEMENTS ARE TO HAVE A MINIMUM DEPTH OF 300MM INCLUDING SURFACING PROPOSED SM2-BARRIER KERB ON 21. OPEN SPACE RESERVES RESERVES TO BE EVENLY GRADED. SEEDED AND FREE DRAINING TO THE SATISFACTION OF RESPONSIBLE AUTHORITY MINIMUM 75mm MIN COMPACTED 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. SAME PAVEMENT MAKE DEPTH OF CLASS 3 FCR BEDDING UP AS ABOVE EXTENDED MINIMUM 150mm BEHIND 22. 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. BACK OF KERB. KERB TO HAVE SUBSOIL DRAIN BEHIND KERB AS PER 23. 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. TYPICAL DETAIL. 24. 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 HARDCOPY AND IN AUTOCAD (2010) AND ACROBAT PDF FORMATS SUPERINTENDENT HOLD POINT INSPECTIONS SHALL APPLY UNTIL WORKS ARE APPROVED BY SUPERINTENDENT CONSULTING ENGINEER'S TO BE PRESENT AT THESE HOLD POINTS; 1) PRE-COMMENCEMENT OF WORKS SITE MEETING. 2) SUBGRADE PROOF-ROLL PRIOR TO PLACEMENT OF SUB-BASE. -3% 3) SUB-BASE PROOF-ROLL PRIOR TO PLACEMENT OF BASE COURSE AND TEST RESULTS. EXISTING OPEN DRAIN TO BE 3) SUB-BASE PROOF-ROLL PRIOR TO PLACEMENT OF BASE COURSE AND TEST RESULTS. 4) BASE COURSE PROOF-ROLL PRIOR TO SEALING AND TEST RESULTS. 5) PRIOR TO TRENCH BACKFILLING; • STORM WATER DRAINAGE, INCLUDING SUBSOIL AG DRAINS, AND • PROPERTY CONNECTIONS. 6) FOOTPATH, DRIVEWAY AND KERB AND CHANNEL PRIOR TO PLACEMENT OF CONCRETE. 7) INSPECTION AT TRACTICAL COMPLETION OF THE WORKS (COMMENCEMENT OF DEFECTS LIABILITY PERIOD). 8) 2ND INSPECTION AT THE END OF 12 MONTHS (END OF DEFECTS LIABILITY PERIOD). BACKFILLED AND GRADED TO THE NEW KERB AND CHANNEL PROPOSED SM2-BARRIER KERB ON MINIMUM 75mm MIN COMPACTED DEPTH OF CLASS 3 FCR BEDDING SAME PAVEMENT MAKE EXTENDED MINIMUM 150mm BEHIND UP AS ABOVE. BACK OF KERB. KERB TO HAVE SUBSOIL DRAIN BEHIND KERB AS PER TYPICAL DETAIL

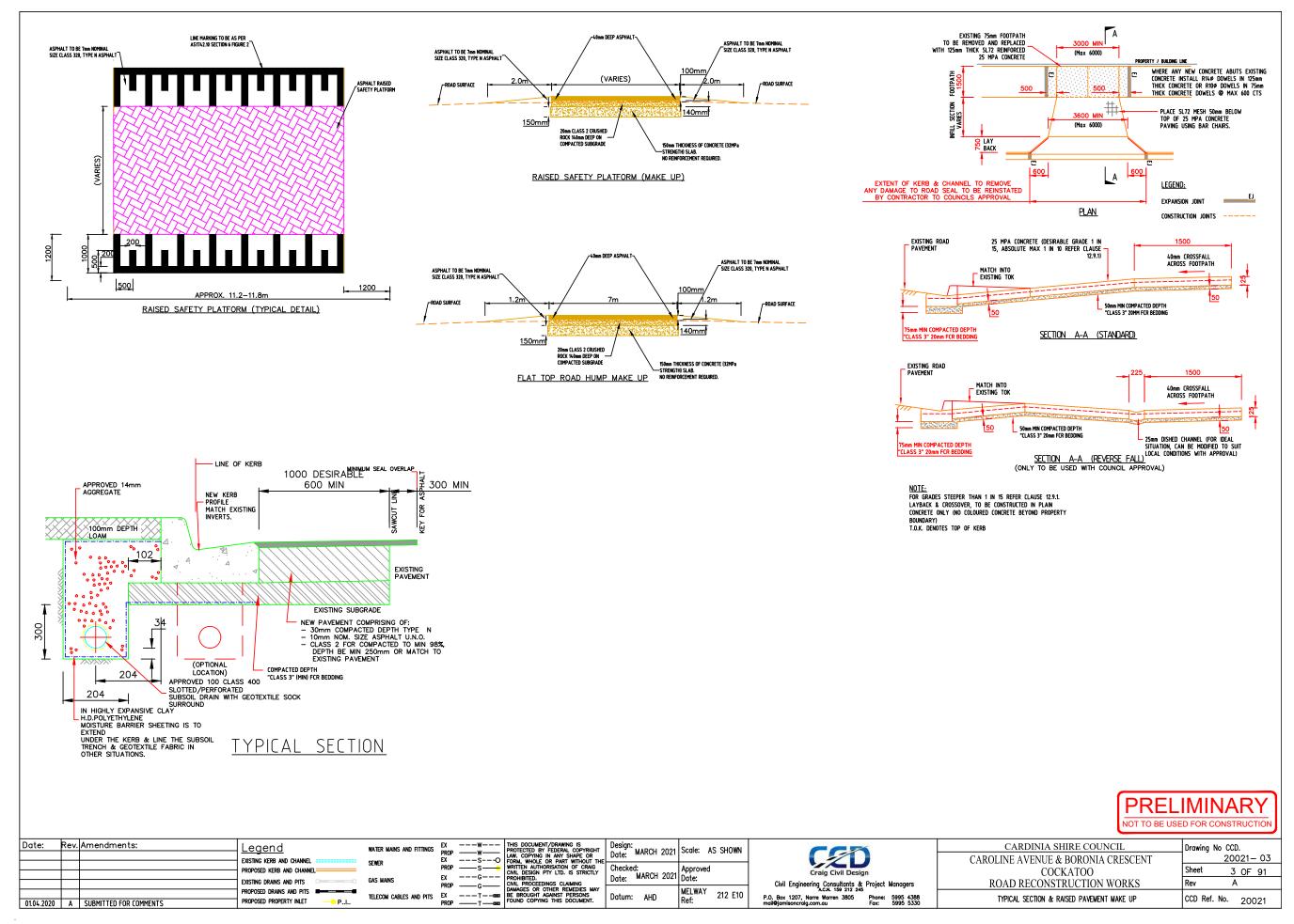
Date:	Rev. Amendments:		water mains and fittings	EXW PROPW FXSO	LAW. COPYING IN ANY SHAPE OR	Design: Date:	Scale:	CEN	CARDIN CAROLINE AVEN
		PROPOSED KERB AND CHANNEL	sewer gas mains	PROPS EXG		Checked: Date:	Approved Date:	Craig Civil Design	
01.04.2021	A SUBMITTED FOR COMMENTS	PROPOSED DRAINS AND PITS	TELECOM CABLES AND PITS	PROPG EXTBE PROPTBE	CIVIL PROCEEDINGS CLAIMING DAMAGES OR OTHER REMEDIES MAY BE BROUGHT AGAINST PERSONS FOUND COPYING THIS DOCUMENT.	Datum:	MELWAY Ref:	Civil Engineering Consultants & Project Managers A.C.N. 159 212 245 P.O. Box 1207, Narre Warren 3805 Phone: 5995 4388 mail@jamisoncraig.com.au Fax: 5995 5330	ROAD REC TYPICAL SEC

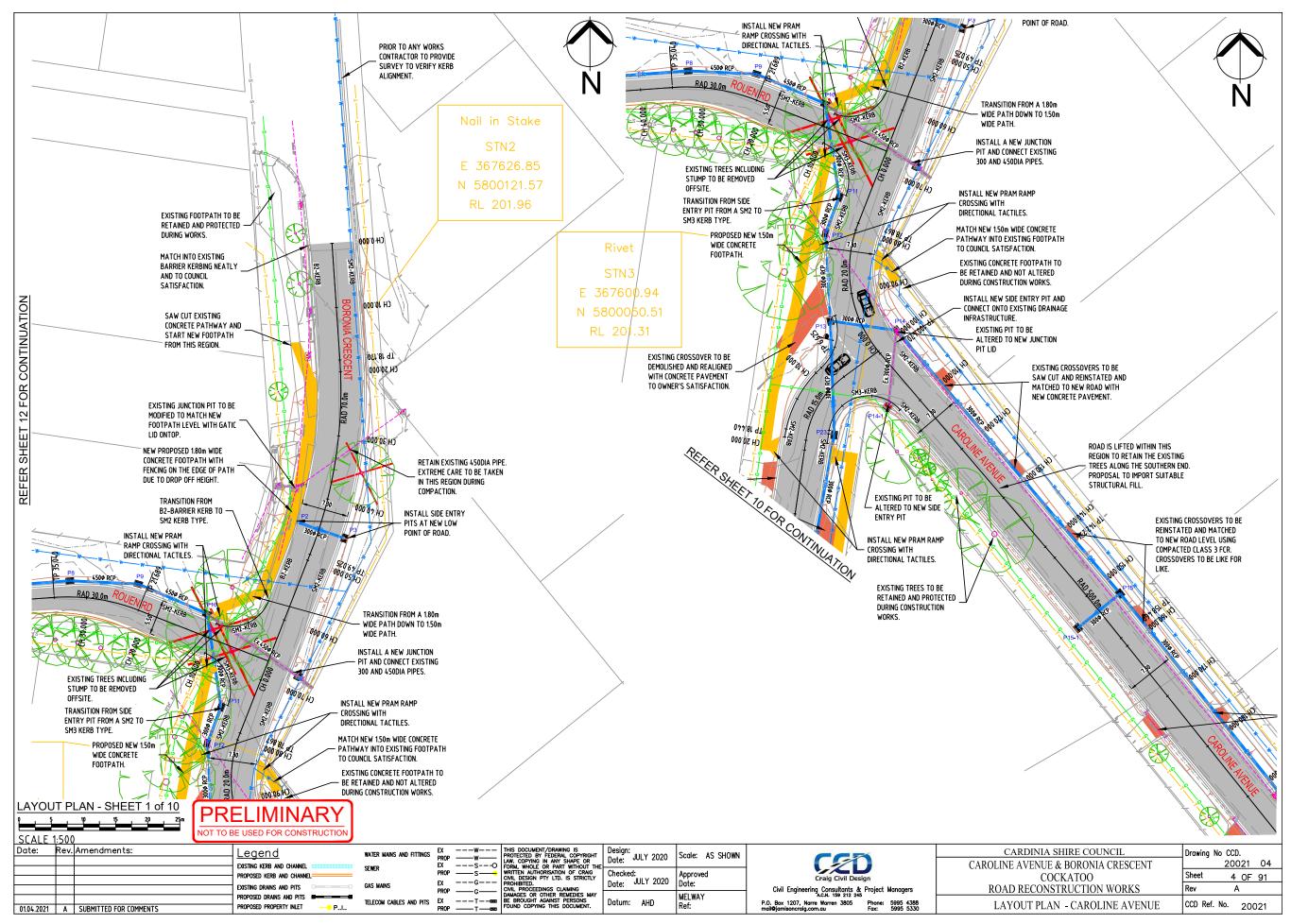
ATTACHMENT 6.2.5.3

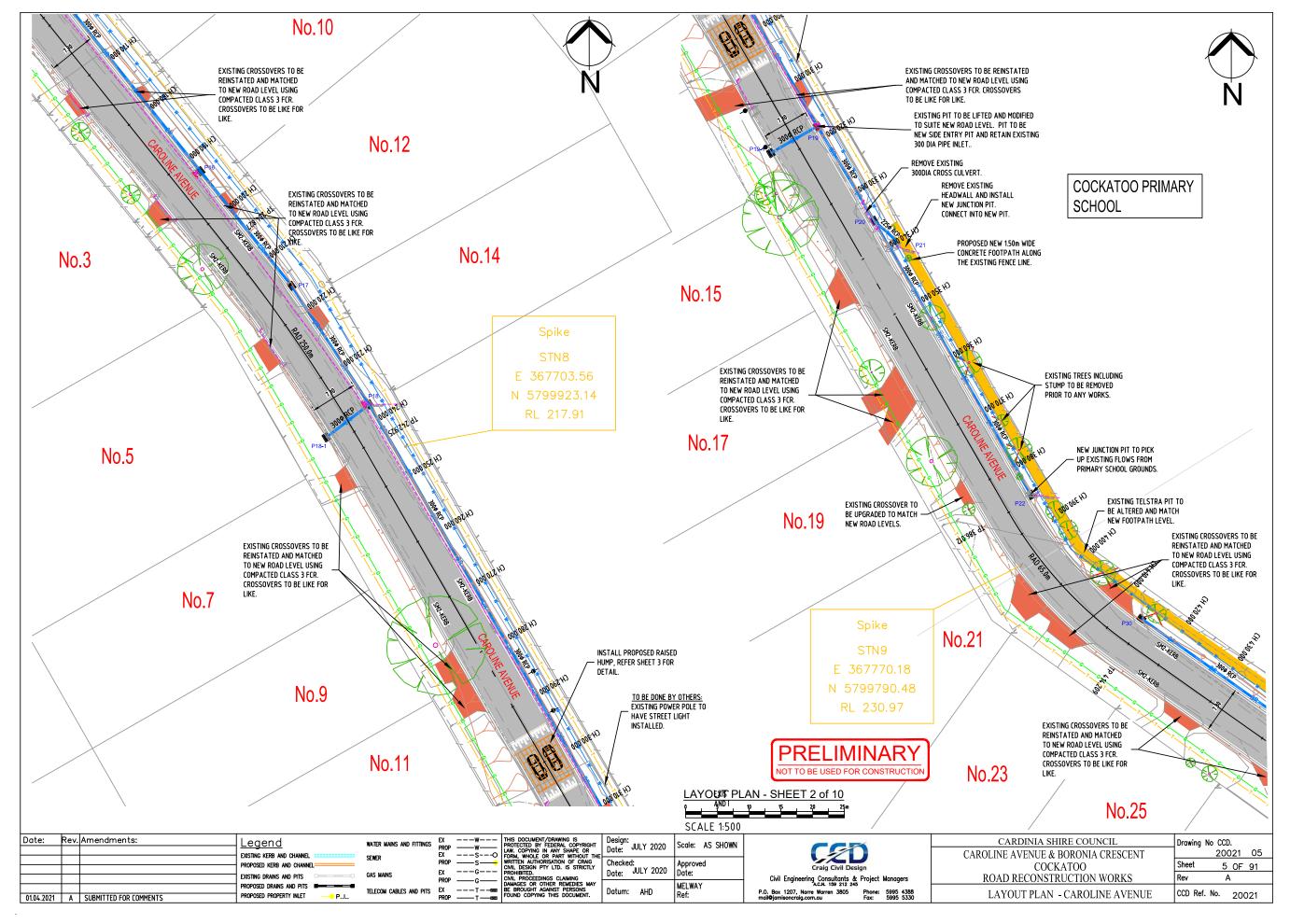
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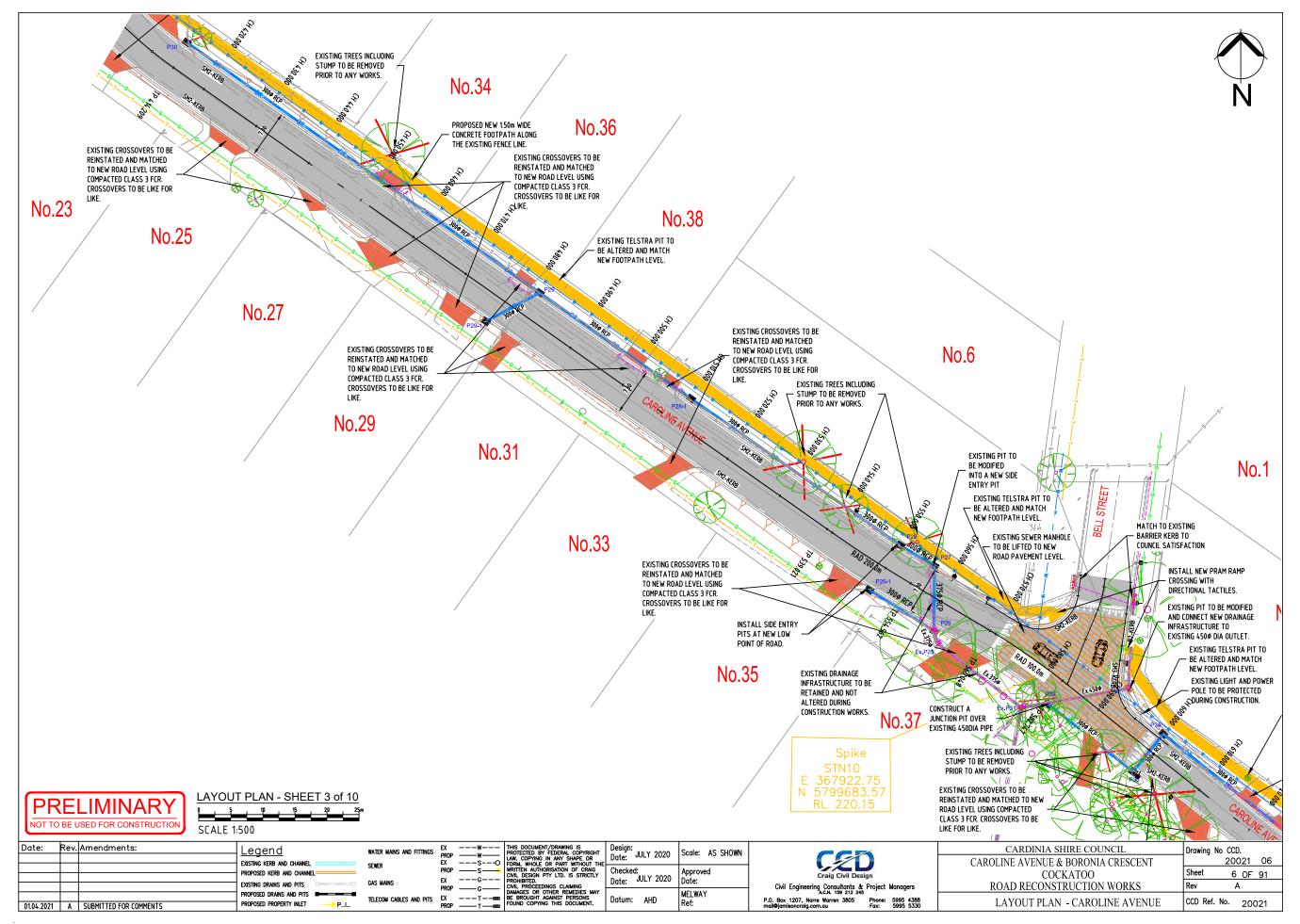
3.65m

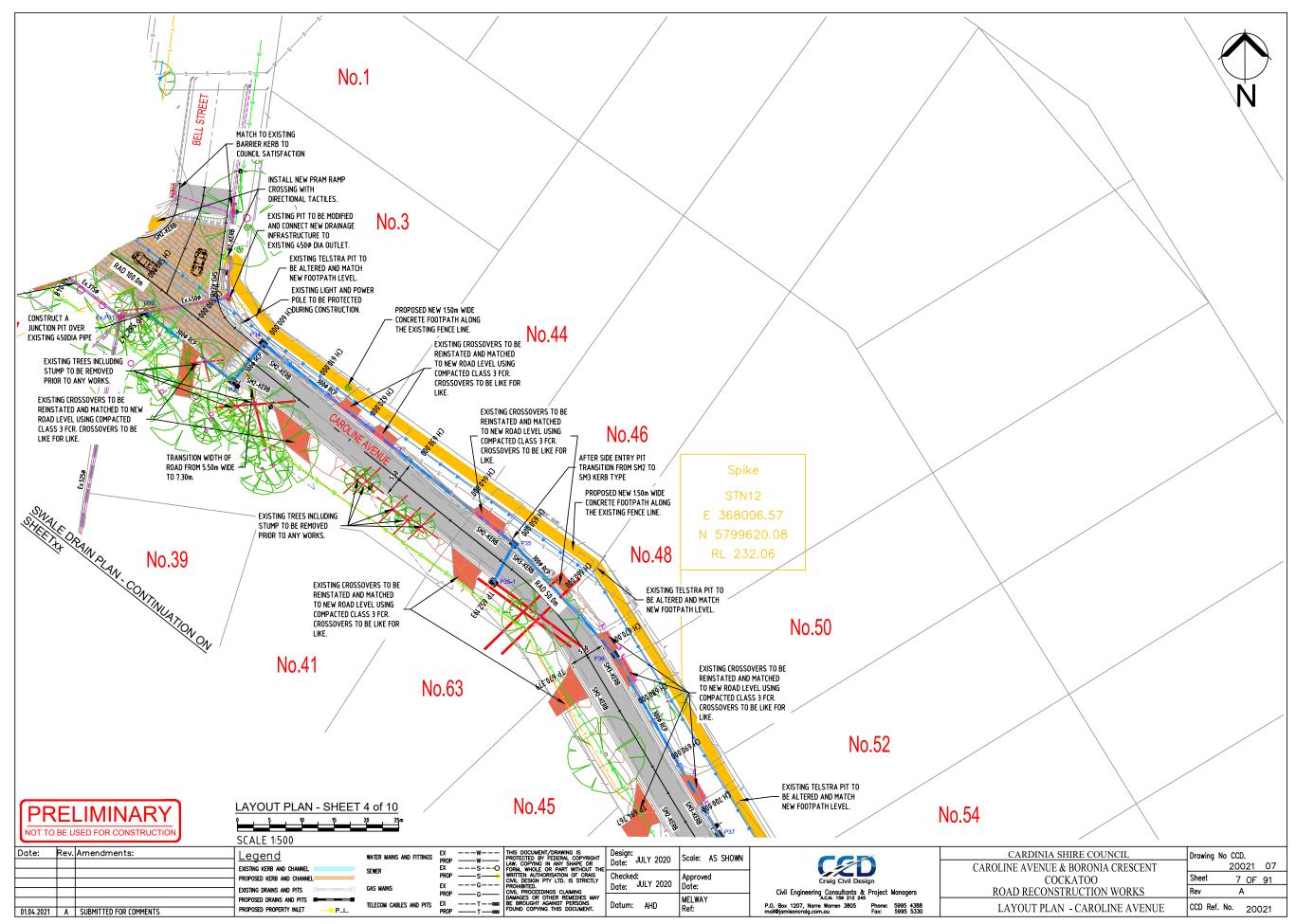


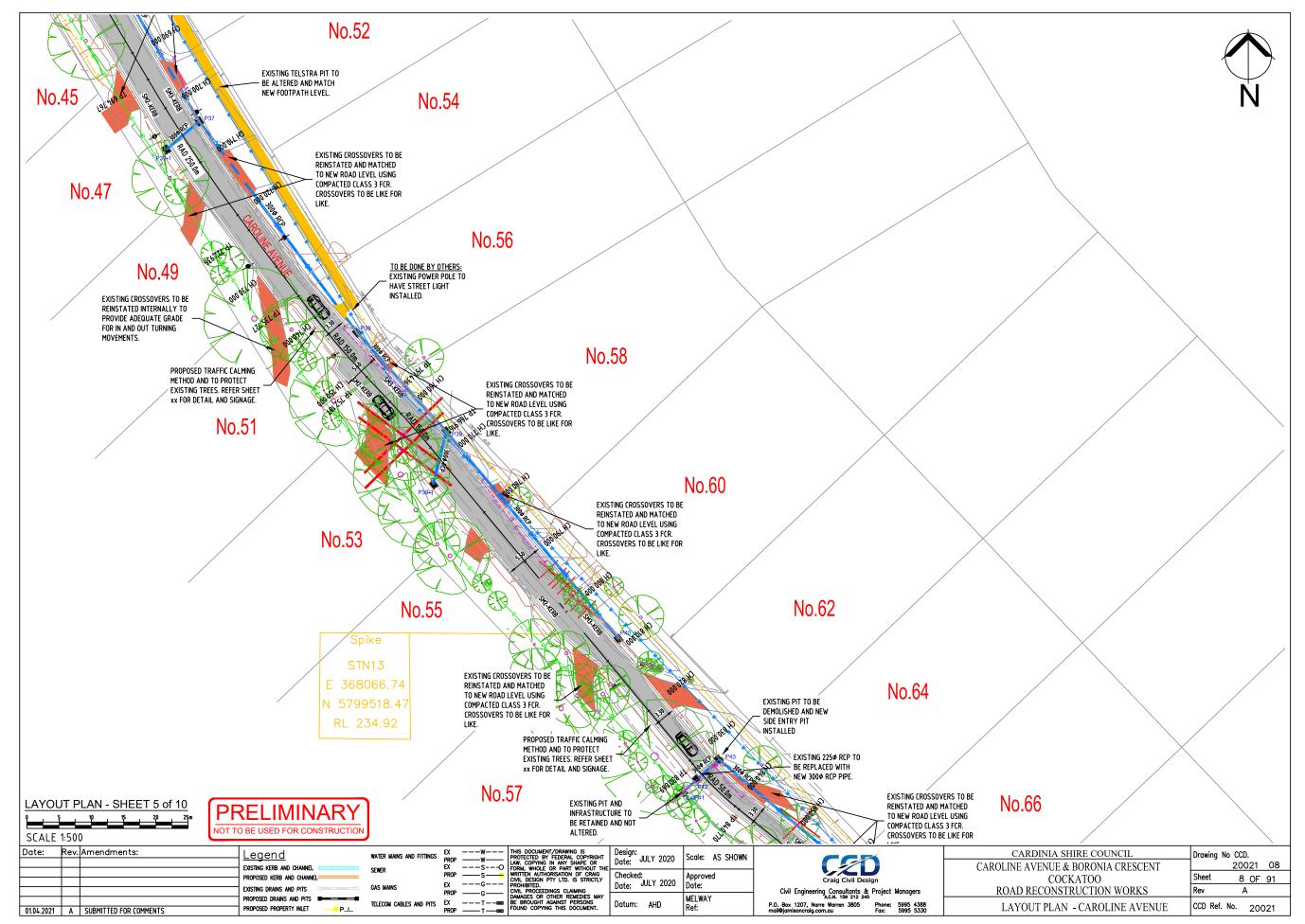


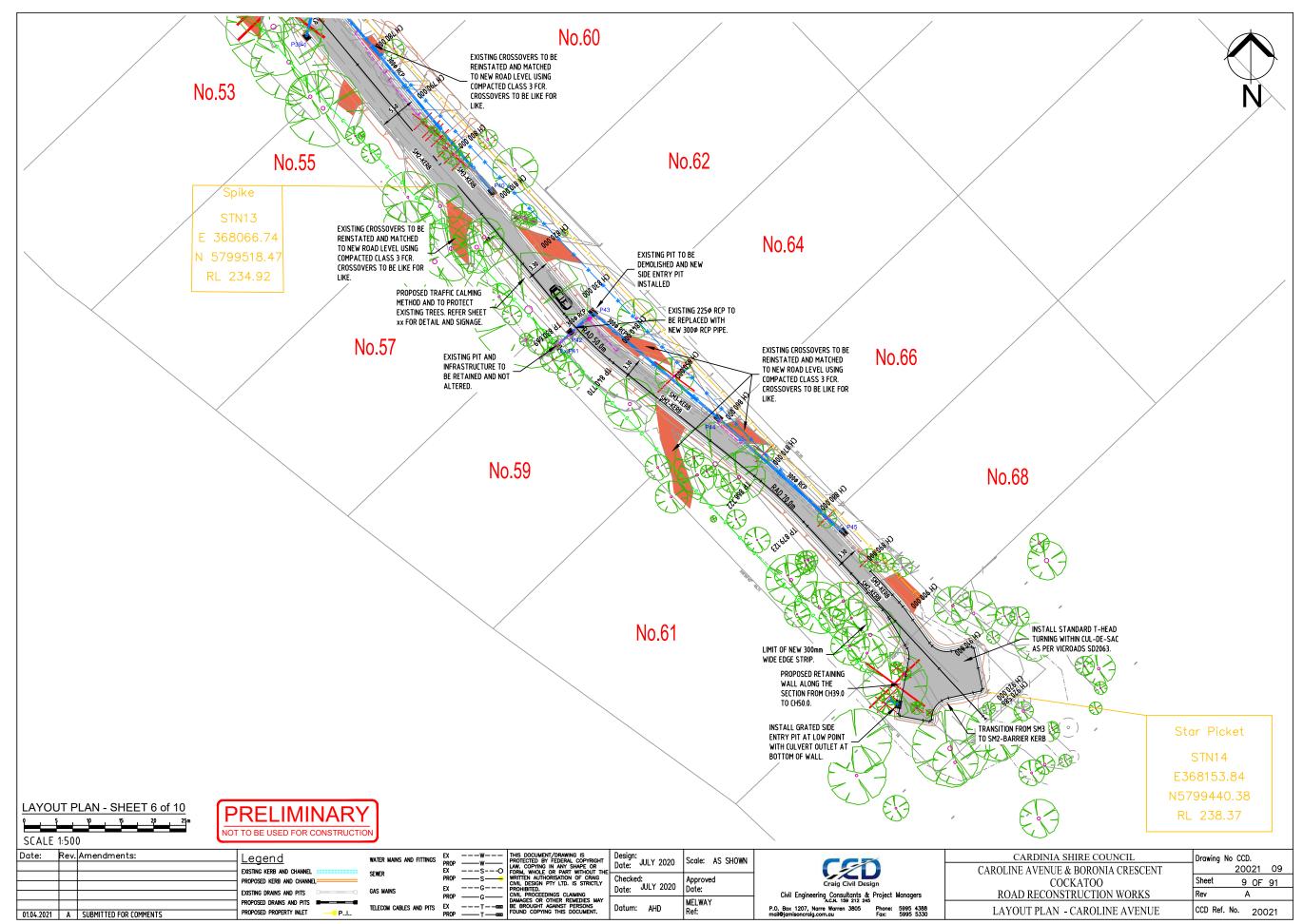


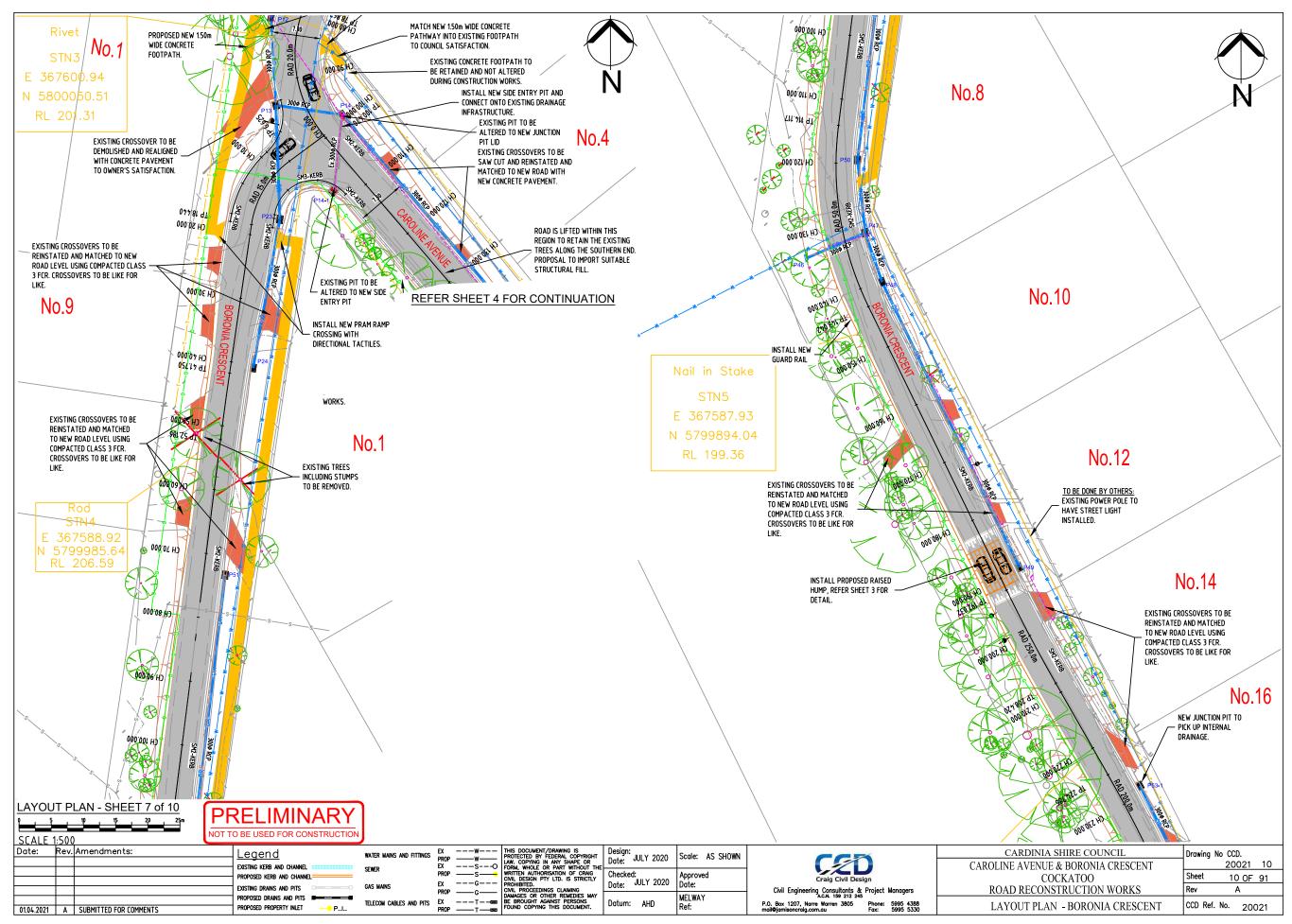


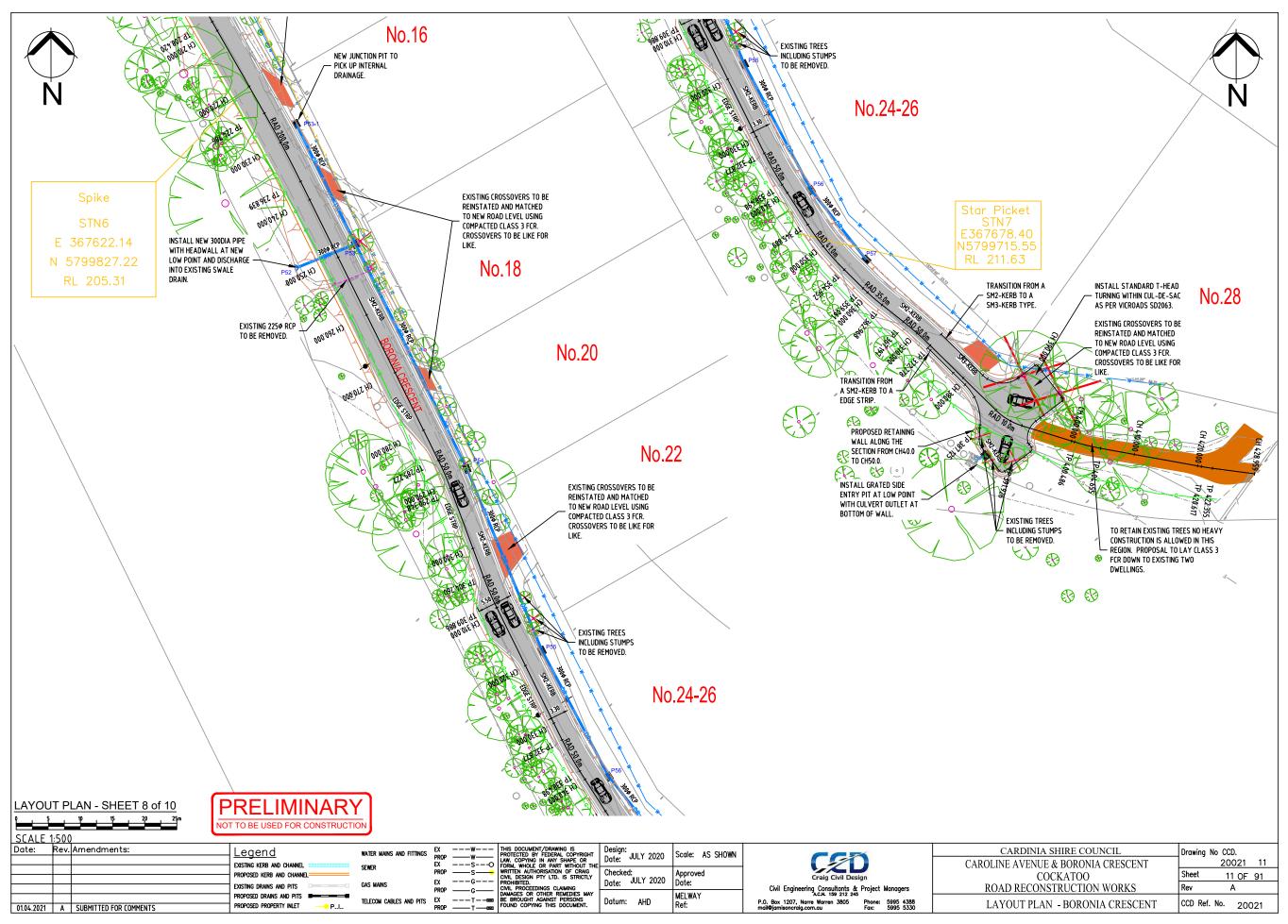


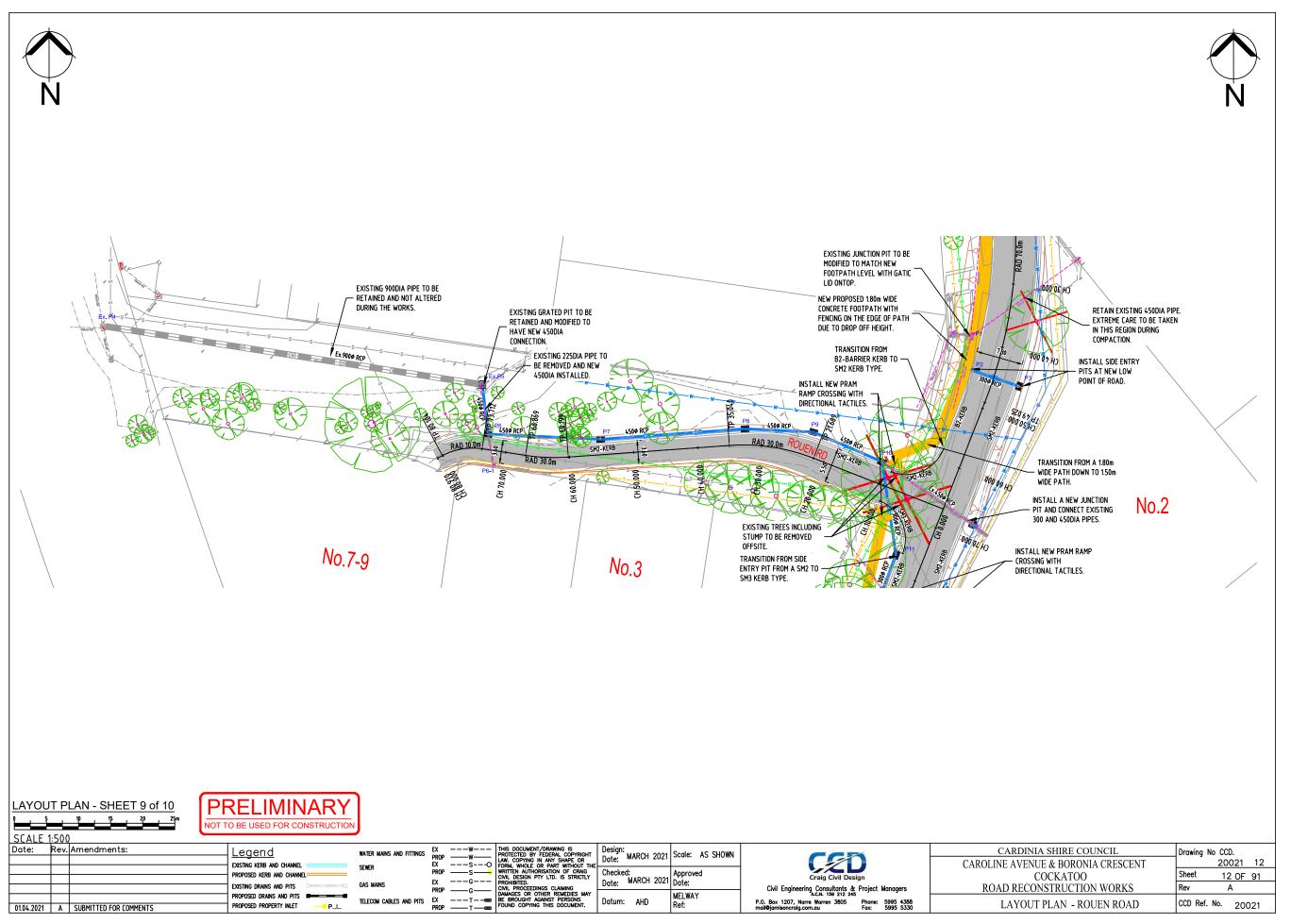


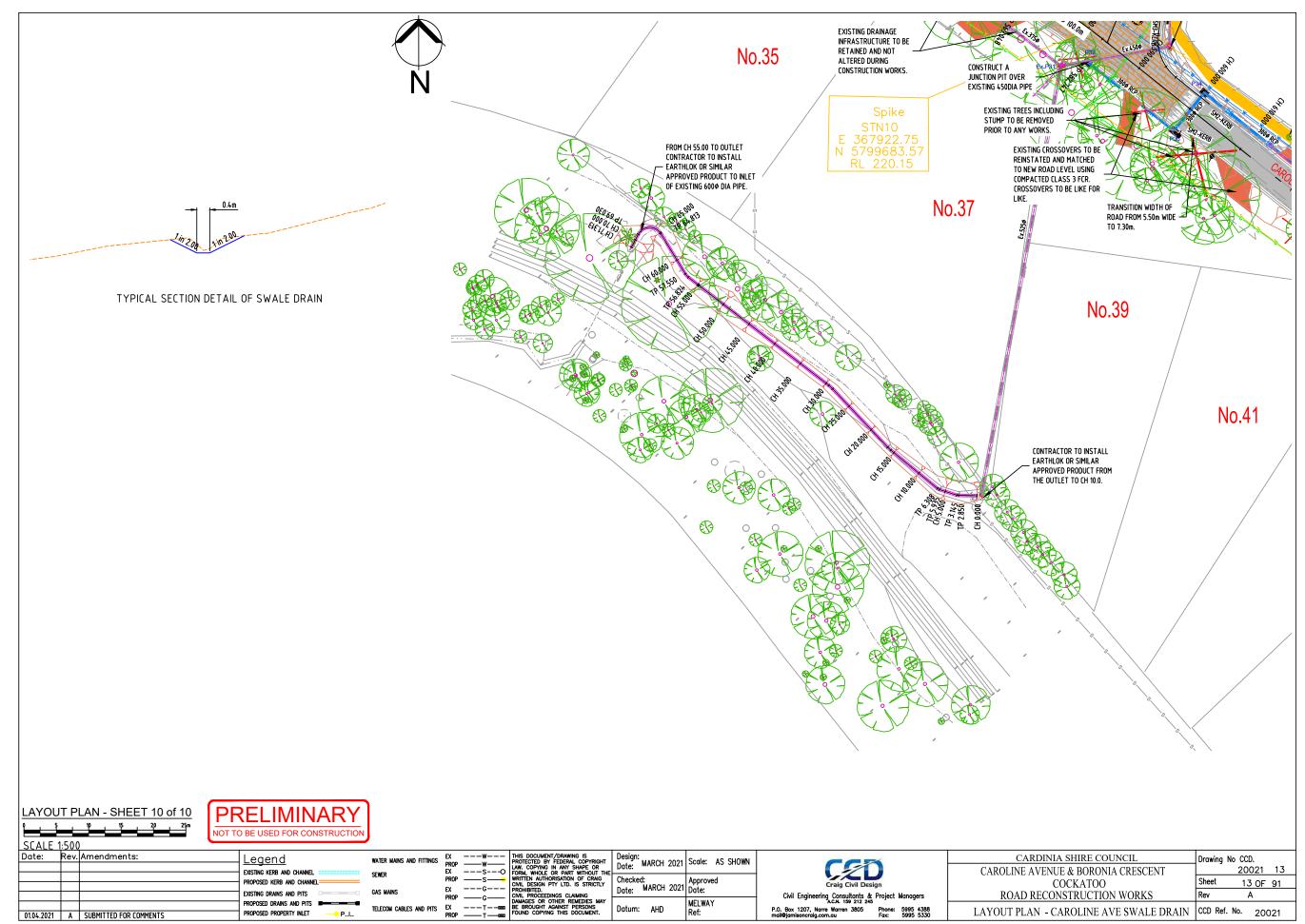


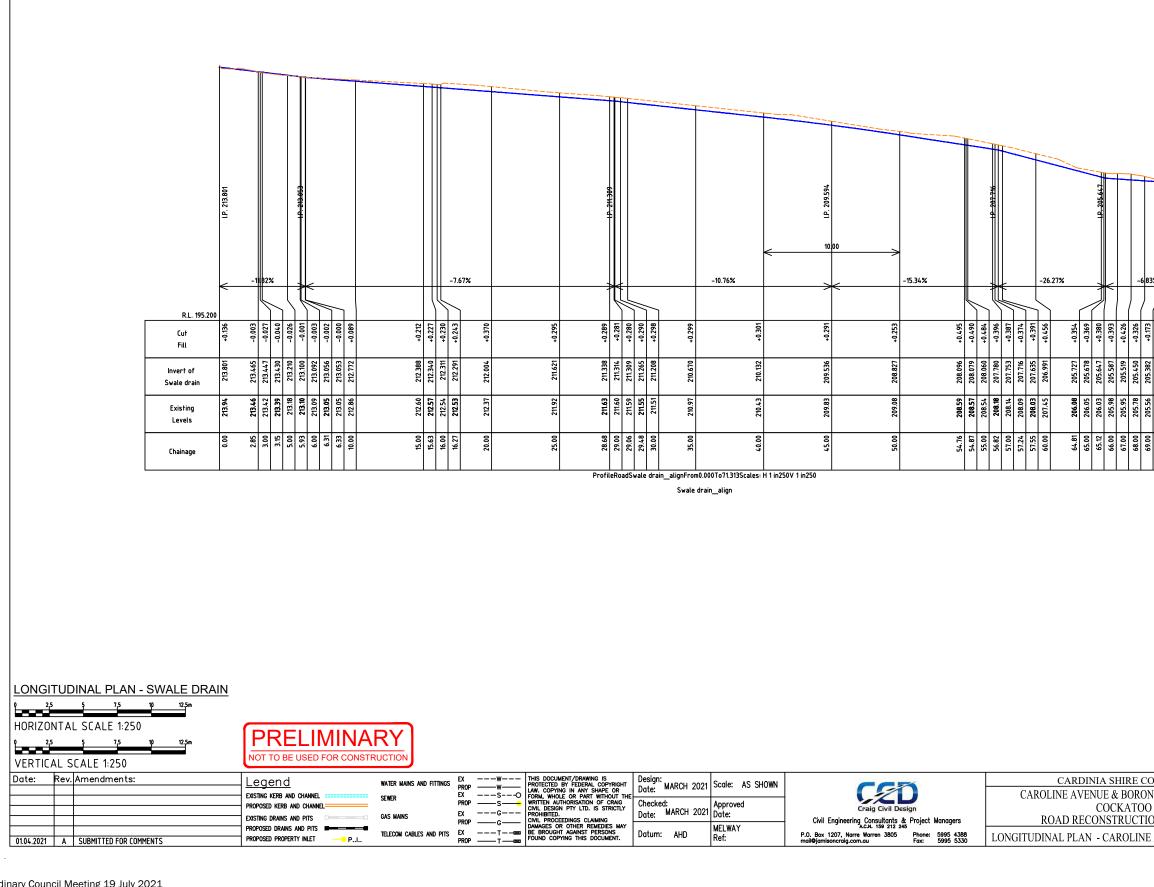






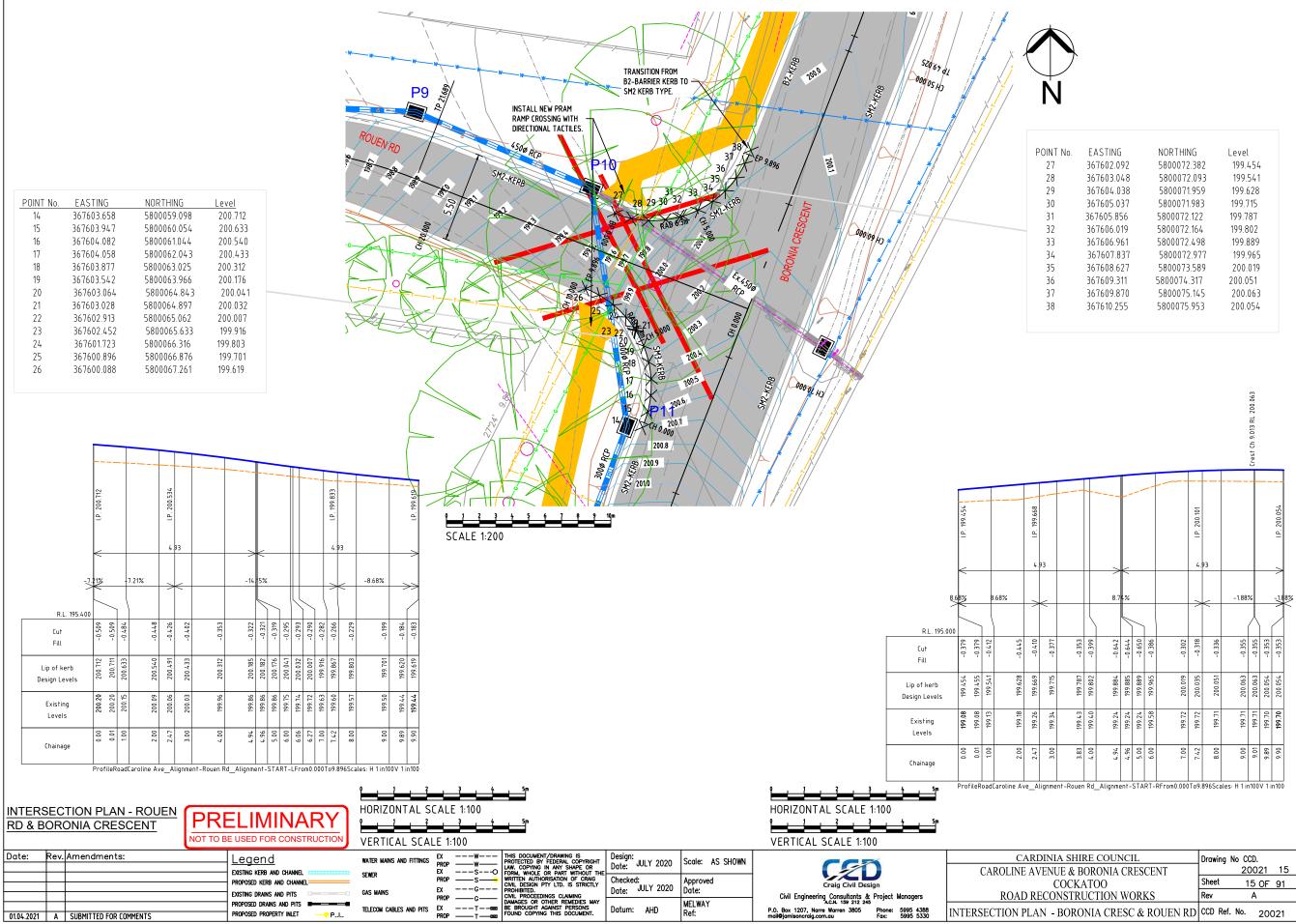






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+0.369	+0.380	+0.393	+0.426	+0.326	+0.173	+0.172	+0.119	+0.049
205.678	205.647	205.587	205.519	205.450	205.382	205.380	205.314	205.224
206.05	206.03	205.98	205.95	205.78	205.56	205.55	205.43	205.27
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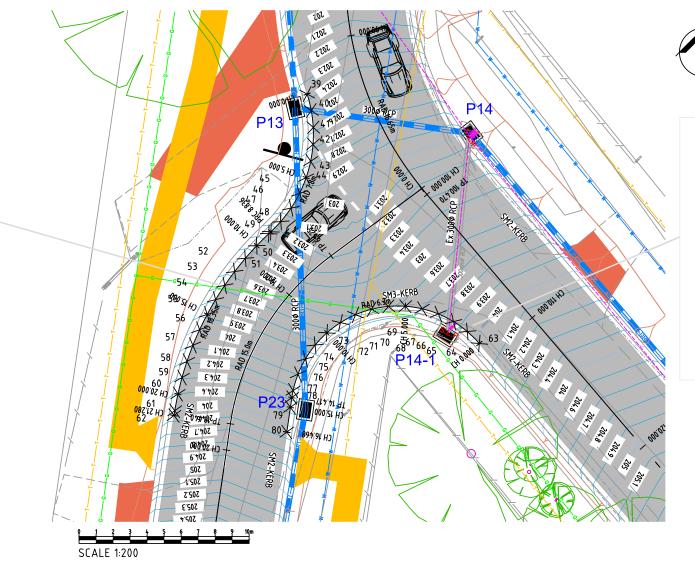
DINIA SHIRE COUNCIL	Drawing No CCD.
VENUE & BORONIA CRESCENT	20021 14
COCKATOO	Sheet 14 OF 91
ECONSTRUCTION WORKS	Rev A
AN - CAROLINE AVE SWALE DRAIN	CCD Ref. No. 20021



OINT No.	EASTING	NORTHING	Level
27	367602.092	5800072.382	199.454
28	367603.048	5800072.093	199.541
29	367604.038	5800071.959	199.628
30	367605.037	5800071.983	199.715
31	367605.856	5800072.122	199.787
32	367606.019	5800072.164	199.802
33	367606.961	5800072.498	199.889
34	367607.837	5800072.977	199.965
35	367608.627	5800073.589	200.019
36	367609.311	5800074.317	200.051
37	367609.870	5800075.145	200.063
38	367610.255	5800075.953	200.054

DINIA SHIRE COUNCIL	Drawing No CCD.
/ENUE & BORONIA CRESCENT	20021 15
COCKATOO	Sheet 15 OF 91
ECONSTRUCTION WORKS	Rev A
N - BORONIA CRESC & ROUEN RD	CCD Ref. No. 20021

DONT	E L O TIVIC	NORTHING	
POINT No.	EASTING	NORTHING	Level
39	367602.064	5800040.713	202.363
40	367602.305	5800039.743	202.460
41	367602.421	5800038.750	202.563
42	367602.409	5800037.751	202.665
43	367602.269	5800036.762	202.767
44	367602.004	5800035.798	202.870
45	367601.618	5800034.876	202.972
46	367601.118	5800034.012	203.074
47	367600.510	5800033.218	203.177
48	367599.929	5800032.619	203.262
49	367599.808	5800032.507	203.279
50	367599.099	5800031.802	203.382
51	367598.430	5800031.059	203.484
52	367597.802	5800030.281	203.586
53	367597.217	5800029.470	203.689
54	367596.678	5800028.628	203.791
55	367596.185	5800027.758	203.893
56	367595.740	5800026.863	203.996
57	367595.344	5800025.944	204.098
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



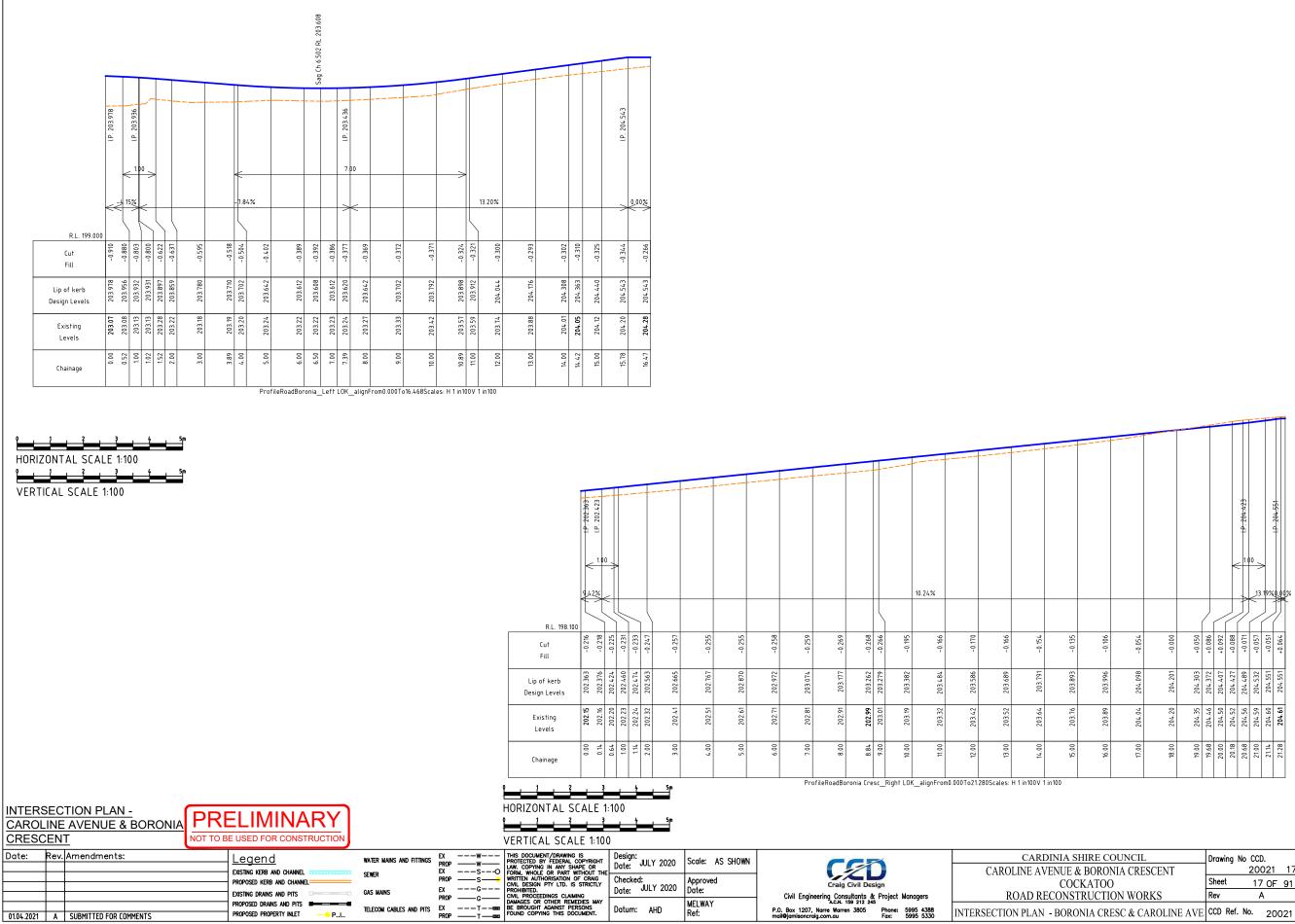
INTERSECTION PLAN - CAROLINE AVENUE & BORONIA	PRELIMINARY	1
CRESCENT	NOT TO BE USED FOR CONSTRUCTION	J

Dat	e:	Rev.	Amendments:	<u>Legend</u>	water mains and fittings	EXW	THIS DOCUMENT/DRAWING IS PROTECTED BY FEDERAL COPYRIGHT	Design: Date: JULY 2020	Scale: AS SHOWN		CARDIN
				EXISTING KERB AND CHANNEL	SEWER	EXSO	LAW. COPYING IN ANY SHAPE OR	Date: JULY 2020			CAROLINE AVE
				PROPOSED KERB AND CHANNEL	SEWER	PROPS	WRITTEN AUTHORISATION OF CRAIG	Checked:	Approved	Craig Civil Design	
				EXISTING DRAINS AND PITS	GAS MAINS	EXG	PROHIBITED.	Date: JULY 2020	Date:		
						PROPG	CIVIL PROCEEDINGS CLAIMING DAMAGES OR OTHER REMEDIES MAY		MELWAY	Civil Engineering Consultants & Project Managers	ROAD RECO
010	4.2021	Δ	SUBMITTED FOR COMMENTS	PROPOSED PROPERTY INLET PI	TELECOM CABLES AND PITS	EXT	BE BROUGHT AGAINST PERSONS FOUND COPYING THIS DOCUMENT.	Datum: AHD	Ref:	P.O. Box 1207, Narre Warren 3805 Phone: 5995 4388 mail@jamisoncraja.com.au Fax: 5995 5330	INTERSECTION PLAN - I
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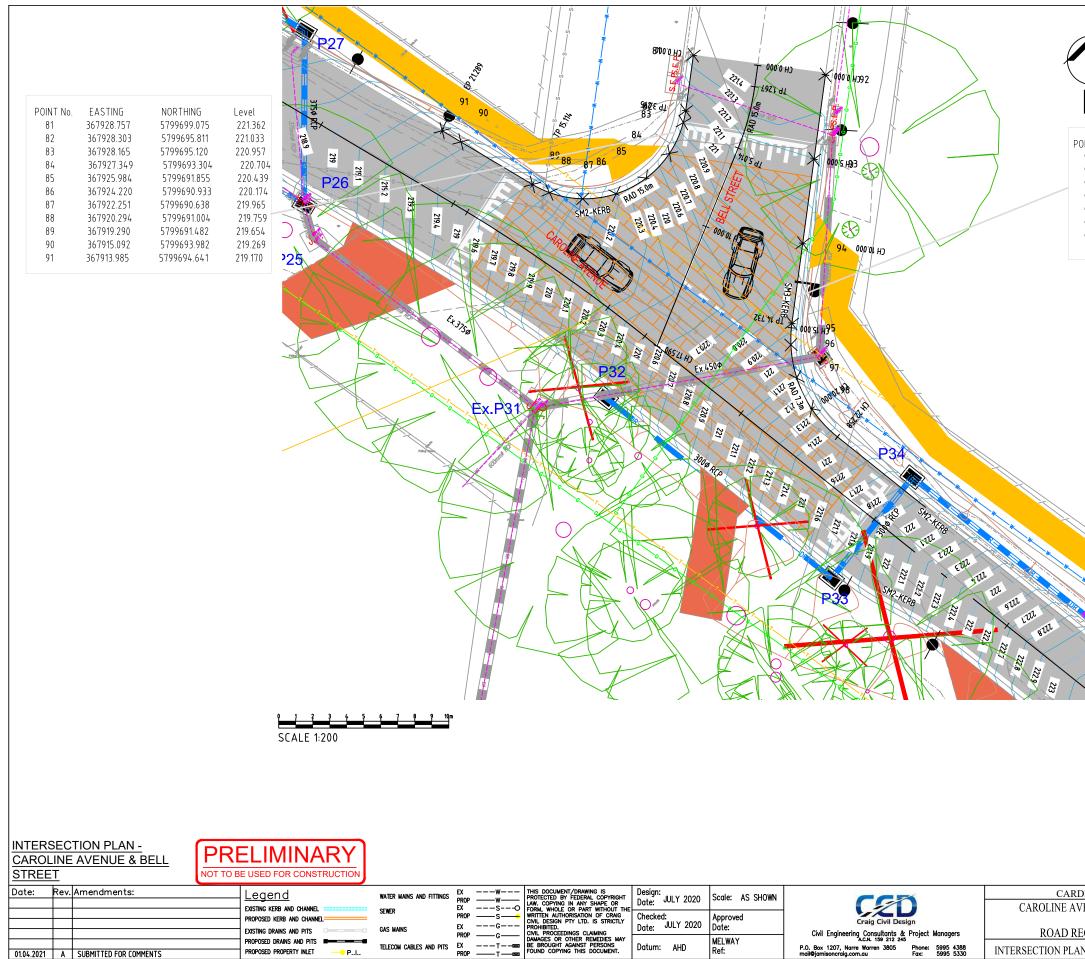


POINT No.	EASTING	NORTHING	Level
63	367612.185	5800026.050	203.978
64	367611.478	5800026.755	203.932
65	367610.668	5800027.340	203.859
66	367609.776	5800027.790	203.780
67	367608.824	5800028.093	203.702
68	367607.836	5800028.242	203.642
69	367606.837	5800028.232	203.612
70	367605.852	5800028.065	203.612
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

DINIA SHIRE COUNCIL	Drawing No CCD.	
ENUE & BORONIA CRESCENT	20021 16	
COCKATOO	Sheet 16 OF 91	
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- BORONIA CRESC & CAROLINE AVE	CCD Ref. No. 20021	



DINIA SHIRE COUNCIL	Drawing No CCD.
VENUE & BORONIA CRESCENT	20021 17
COCKATOO	Sheet 17 OF 91
ECONSTRUCTION WORKS	Rev A
- BORONIA CRESC & CAROLINE AVE	CCD Ref. No. 20021



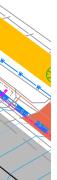
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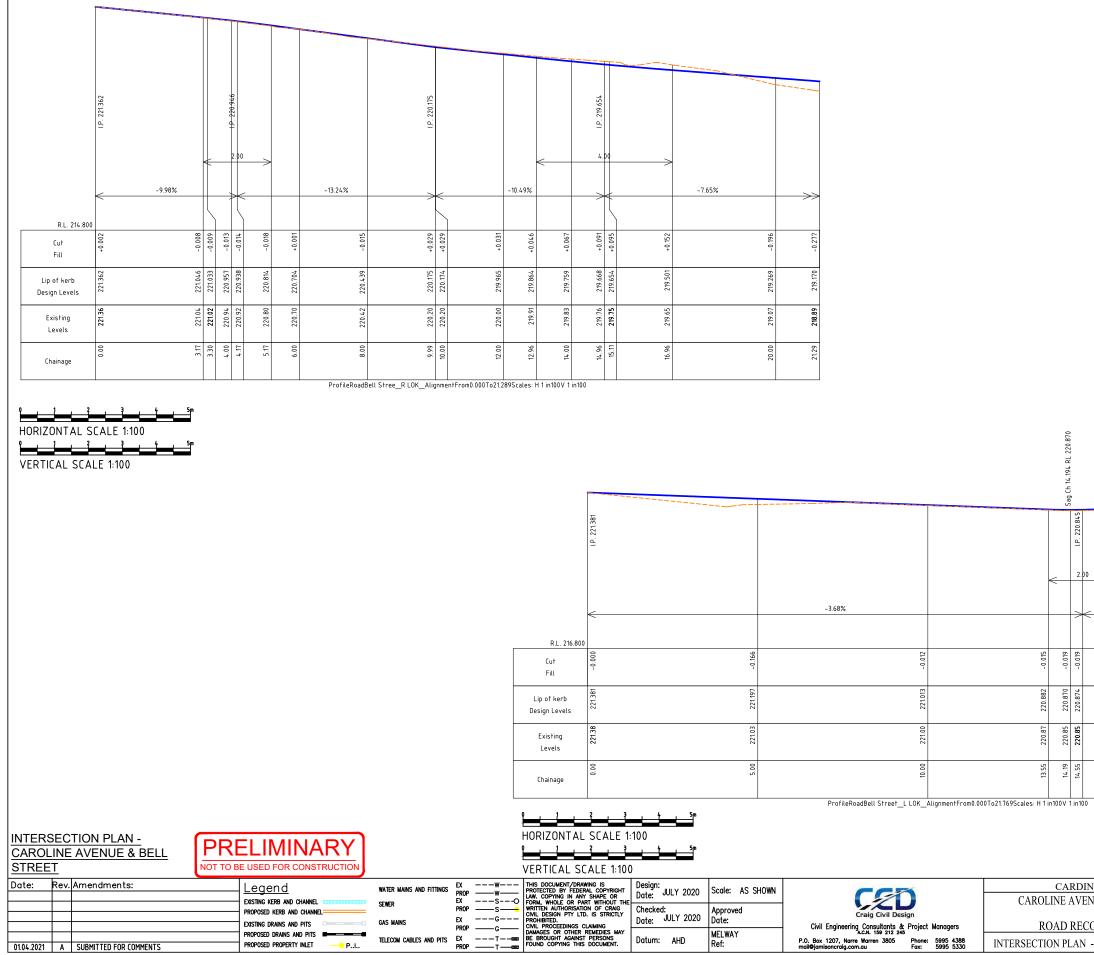
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DINT No.	EASTING	NORTHING	Level
92	367936.521	5799697.923	221.381
93	367935.852	5799692.968	221.197
94	367935.183	5799688.013	221.013
95	367934.549	5799683.323	220.878
96	367934.489	5799682.059	220.958
97	367934.839	5799680.096	221.114
98	367935.707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

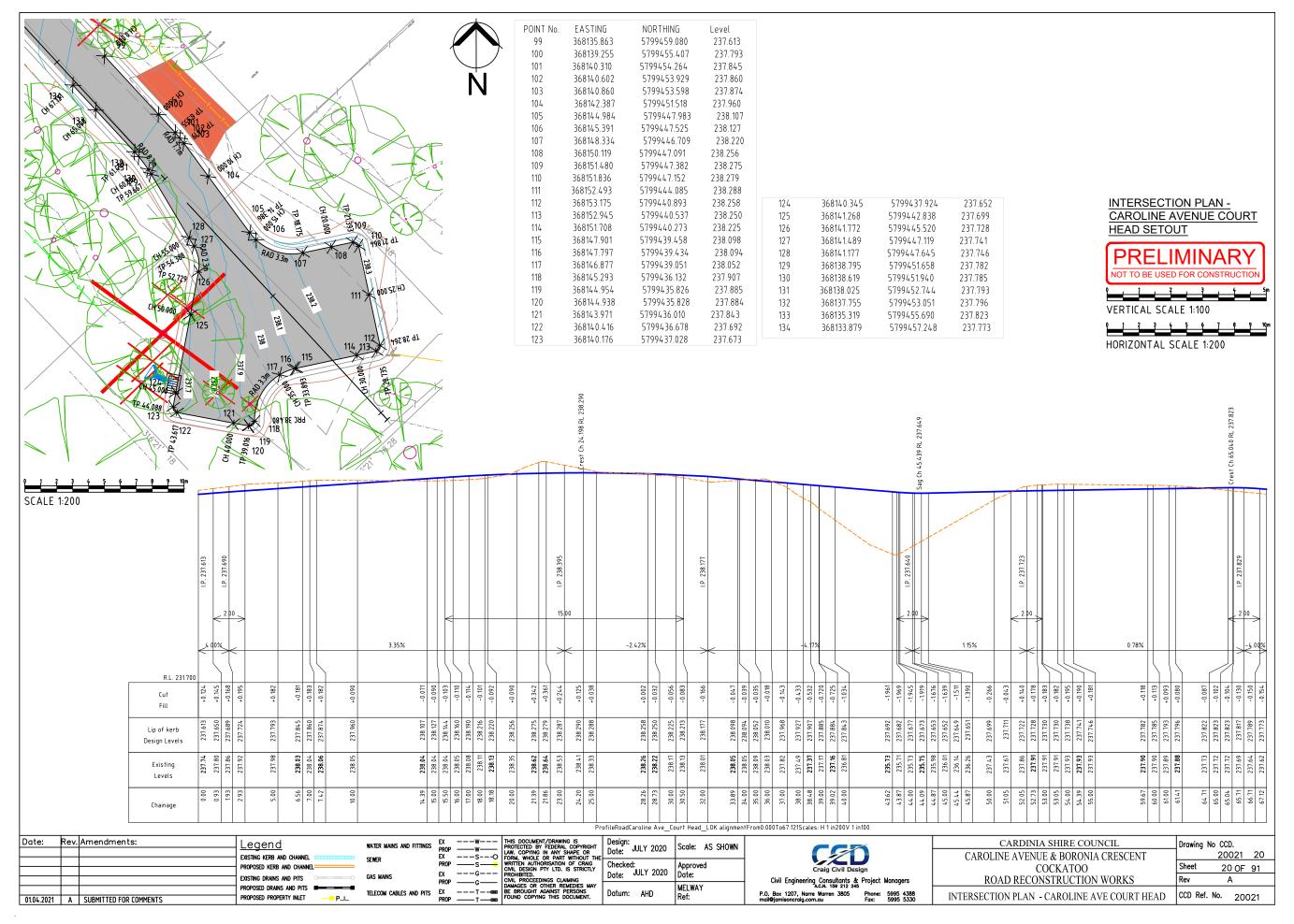


DINIA SHIRE COUNCIL	Drawing No CCD.
/ENUE & BORONIA CRESCENT	20021 18
COCKATOO	Sheet 18 OF 91
ECONSTRUCTION WORKS	Rev A
N - BELL STREET & CAROLINE AVE	CCD Ref. No. 20021

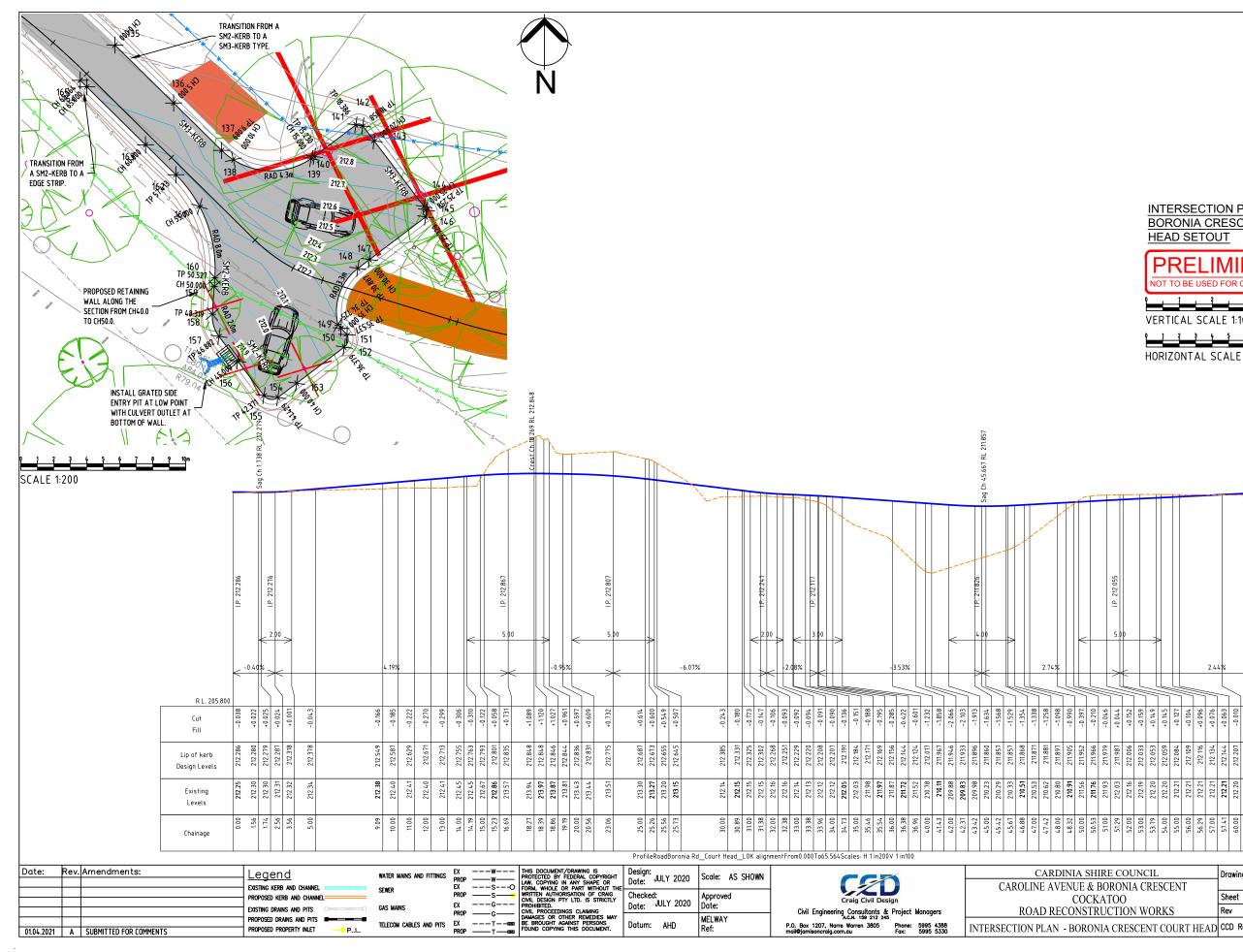


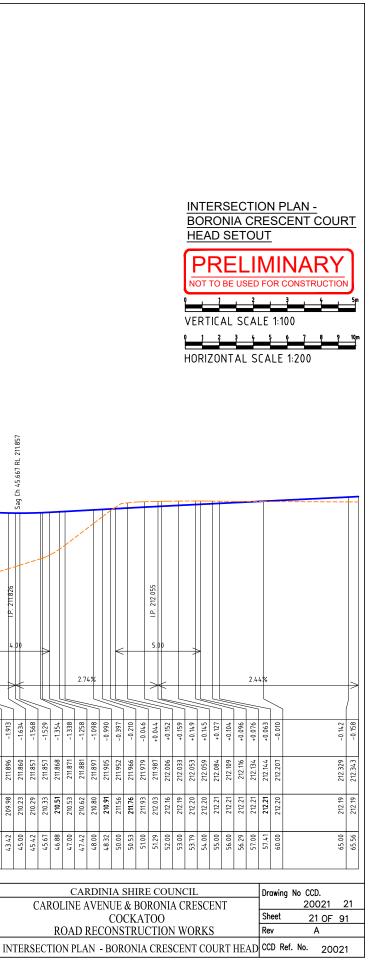
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	-0.055	-0.081	-0.127	-0.199	-0.282
	220.923	220.958		221.270	221.408
	220.87	220.88	220.99	221.07	221.13
	15.55	16.00	18.00	20.00	21.77
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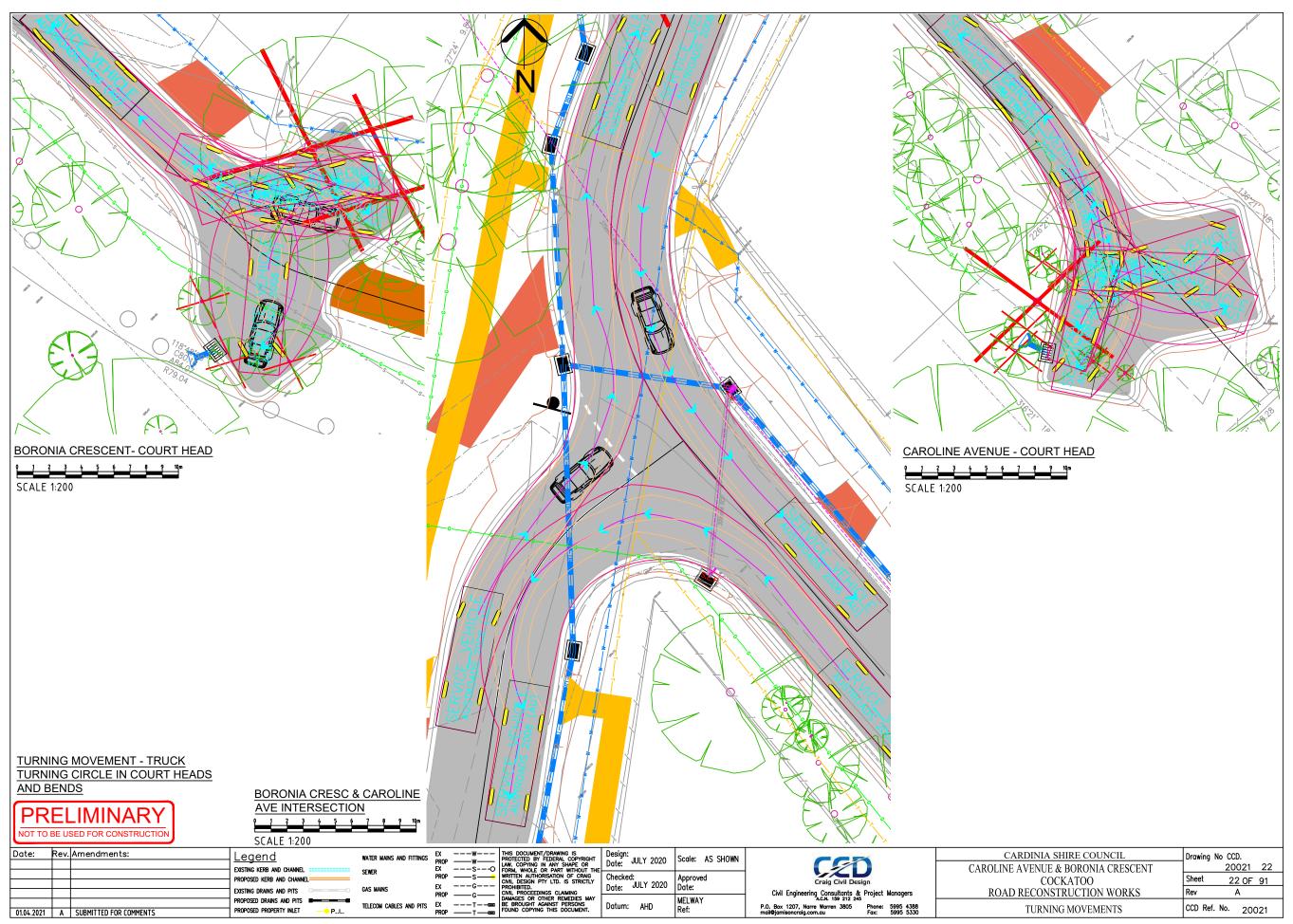
DINIA SHIRE COUNCIL	Drawing No CCD.
VENUE & BORONIA CRESCENT	20021 19
COCKATOO	Sheet 19 OF 91
ECONSTRUCTION WORKS	Rev A
N - BELL STREET & CAROLINE AVE	CCD Ref. No. 20021

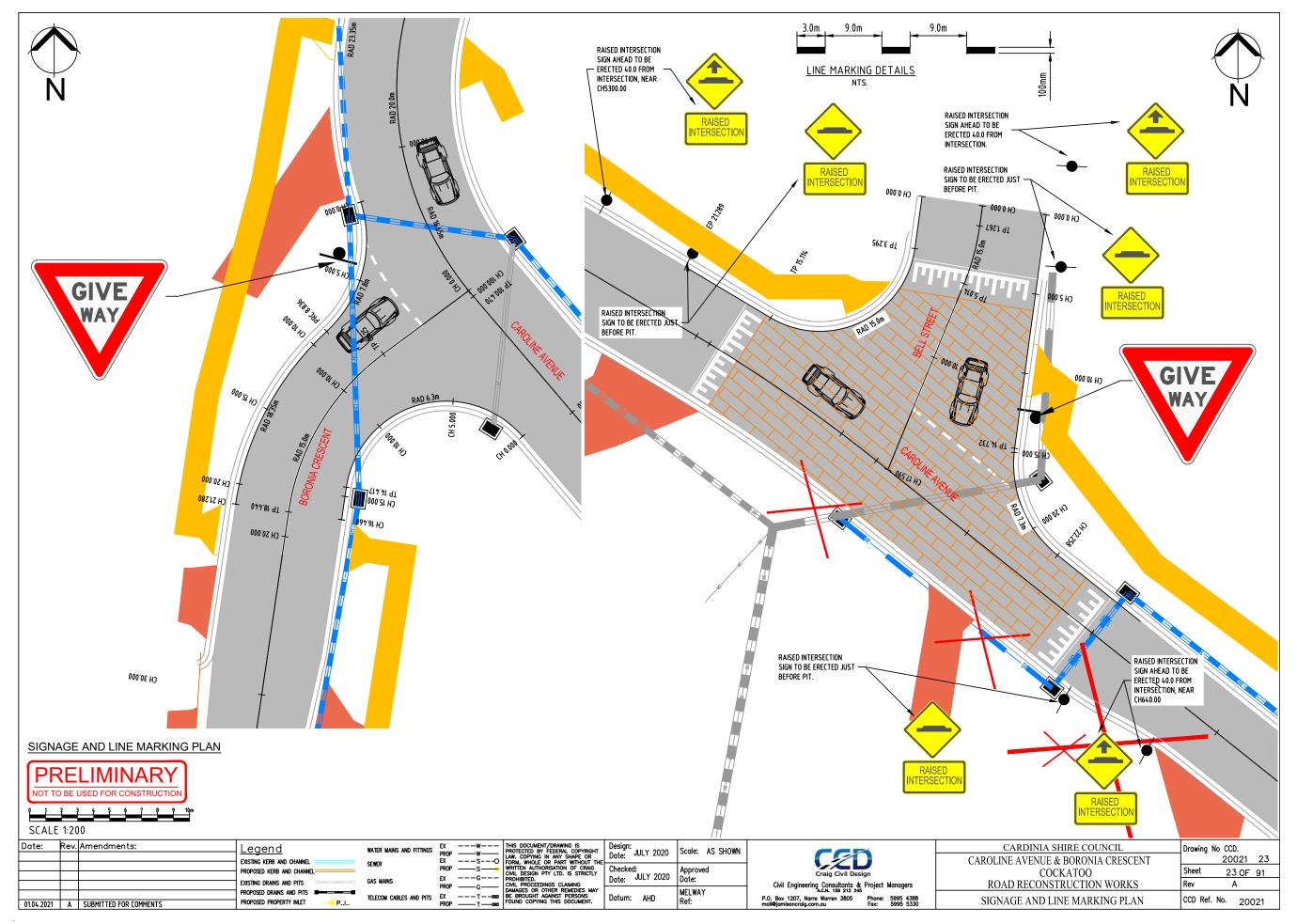


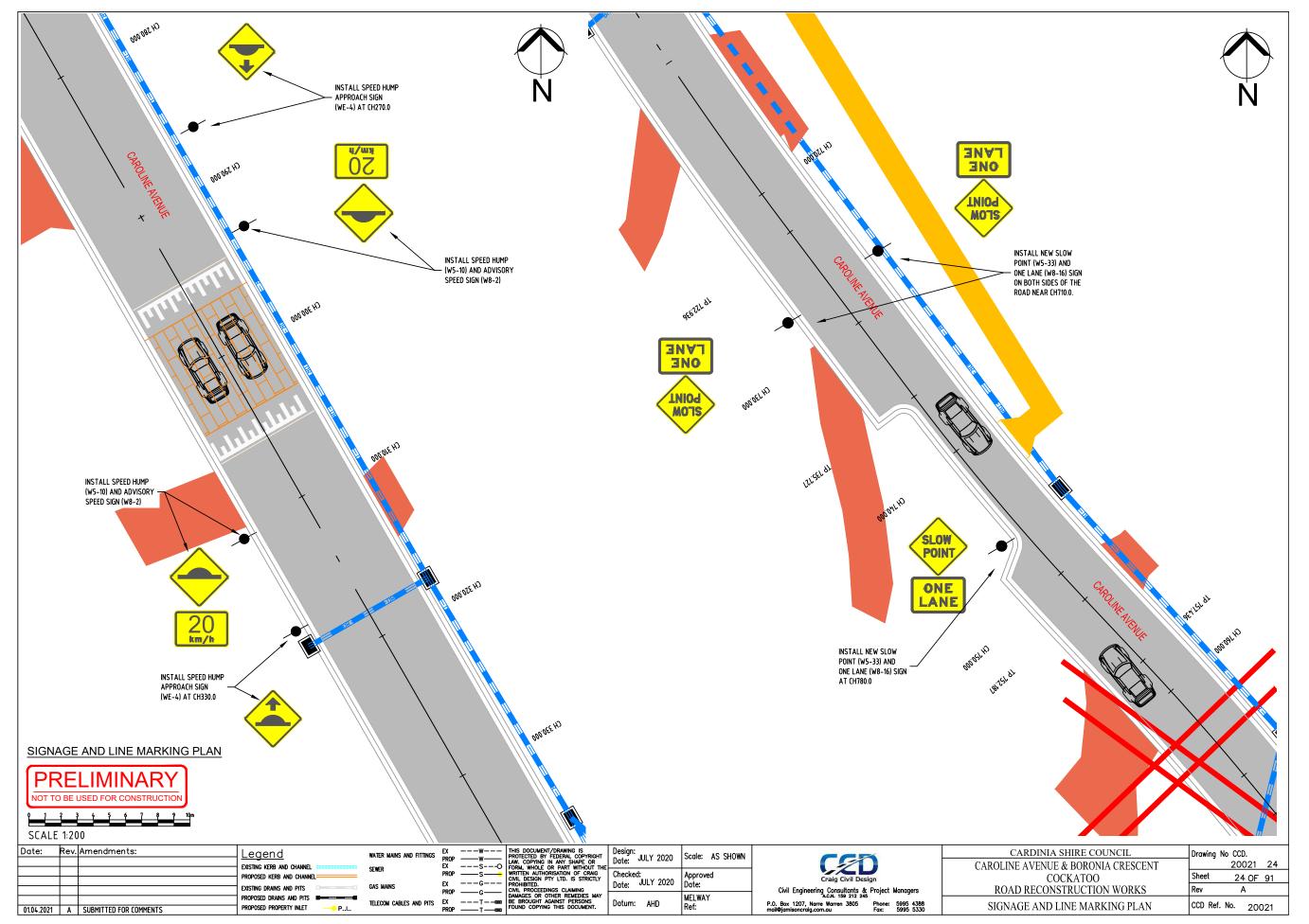


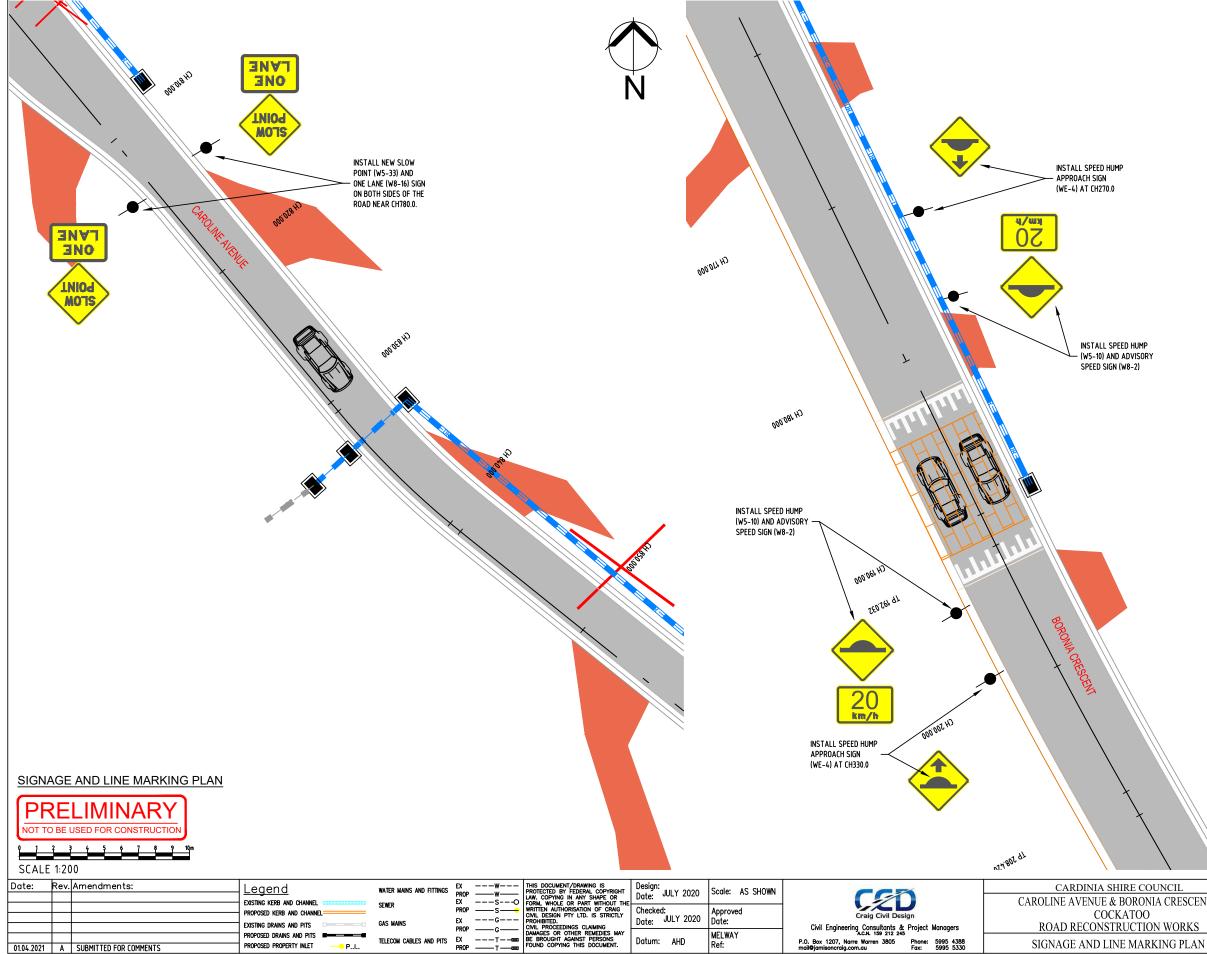








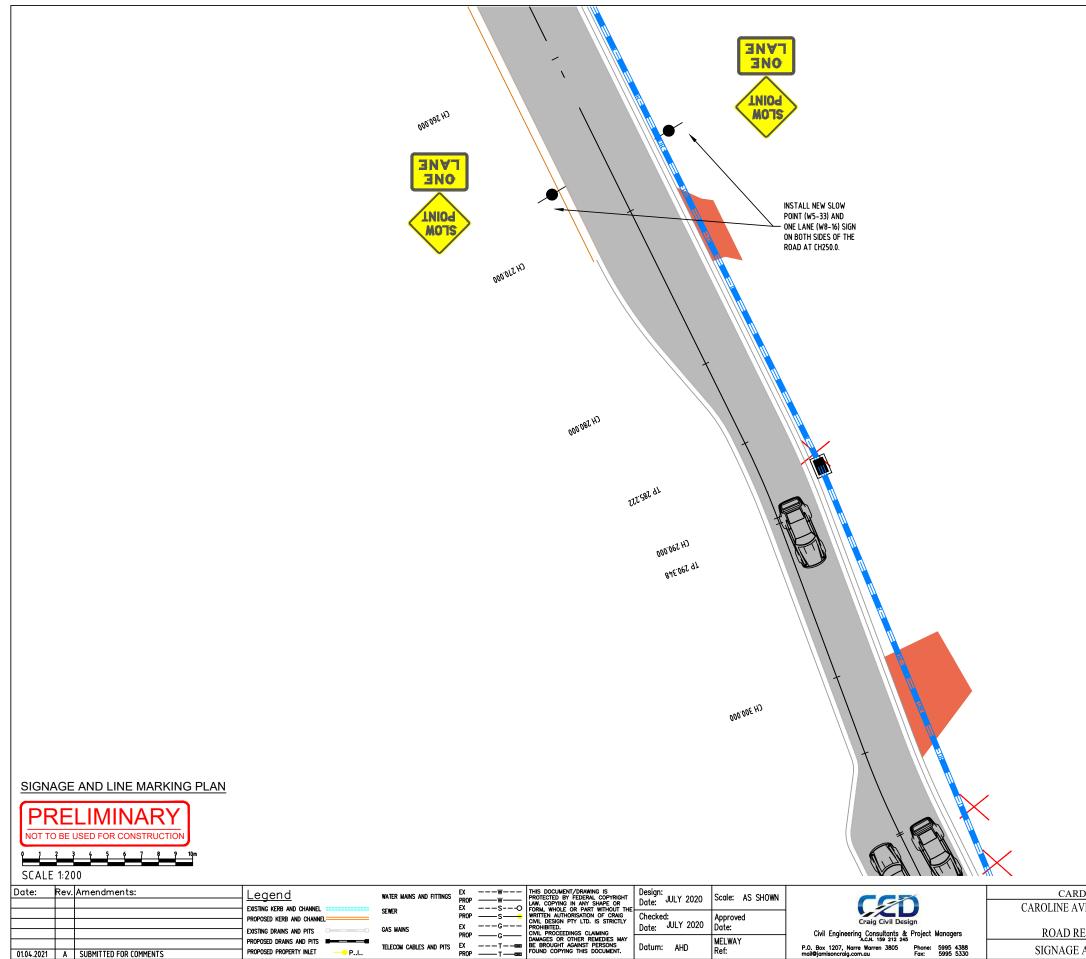






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INIA SHIRE COUNCIL	Drawing No CCD.
ENUE & BORONIA CRESCENT	20021 25
COCKATOO	Sheet 25 OF 91
CONSTRUCTION WORKS	Rev A
AND LINE MARKING PLAN	CCD Ref. No. 20021



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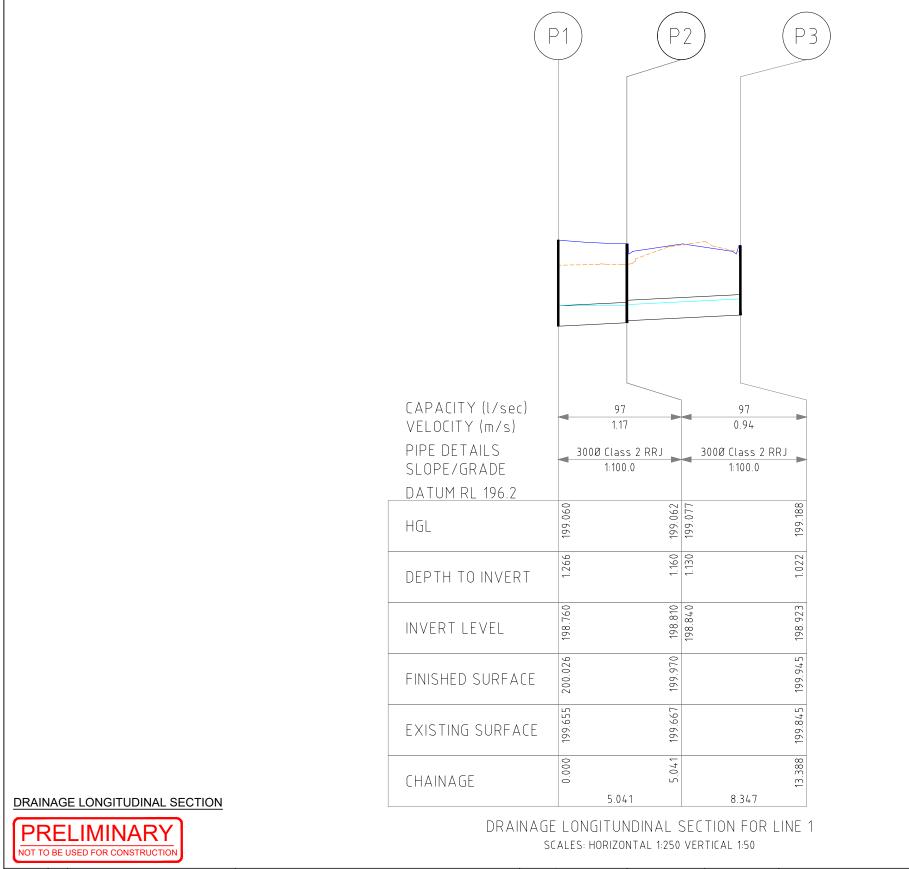
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VENUE & BORONIA CRESCENT	20021 26
COCKATOO	Sheet 26 OF 91
ECONSTRUCTION WORKS	Rev A
AND LINE MARKING PLAN	CCD Ref. No. 20021

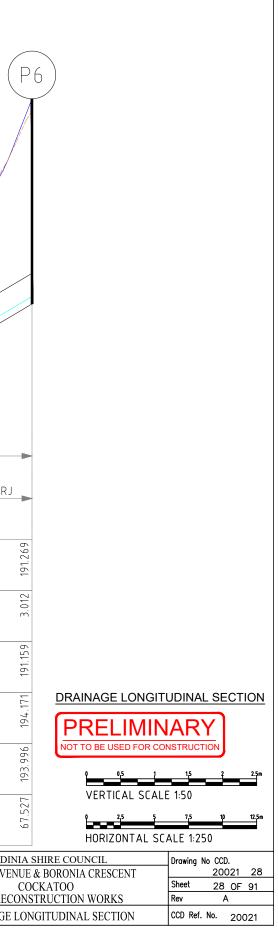
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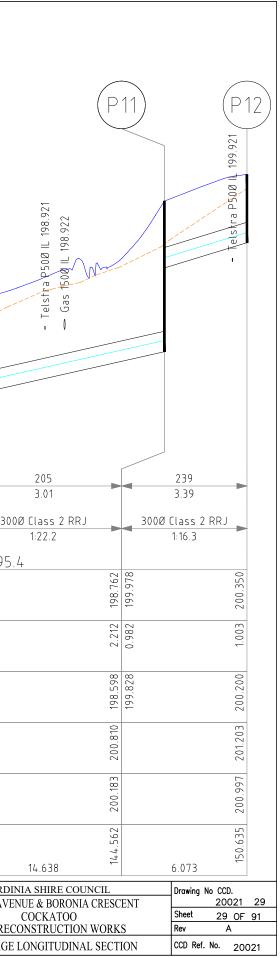


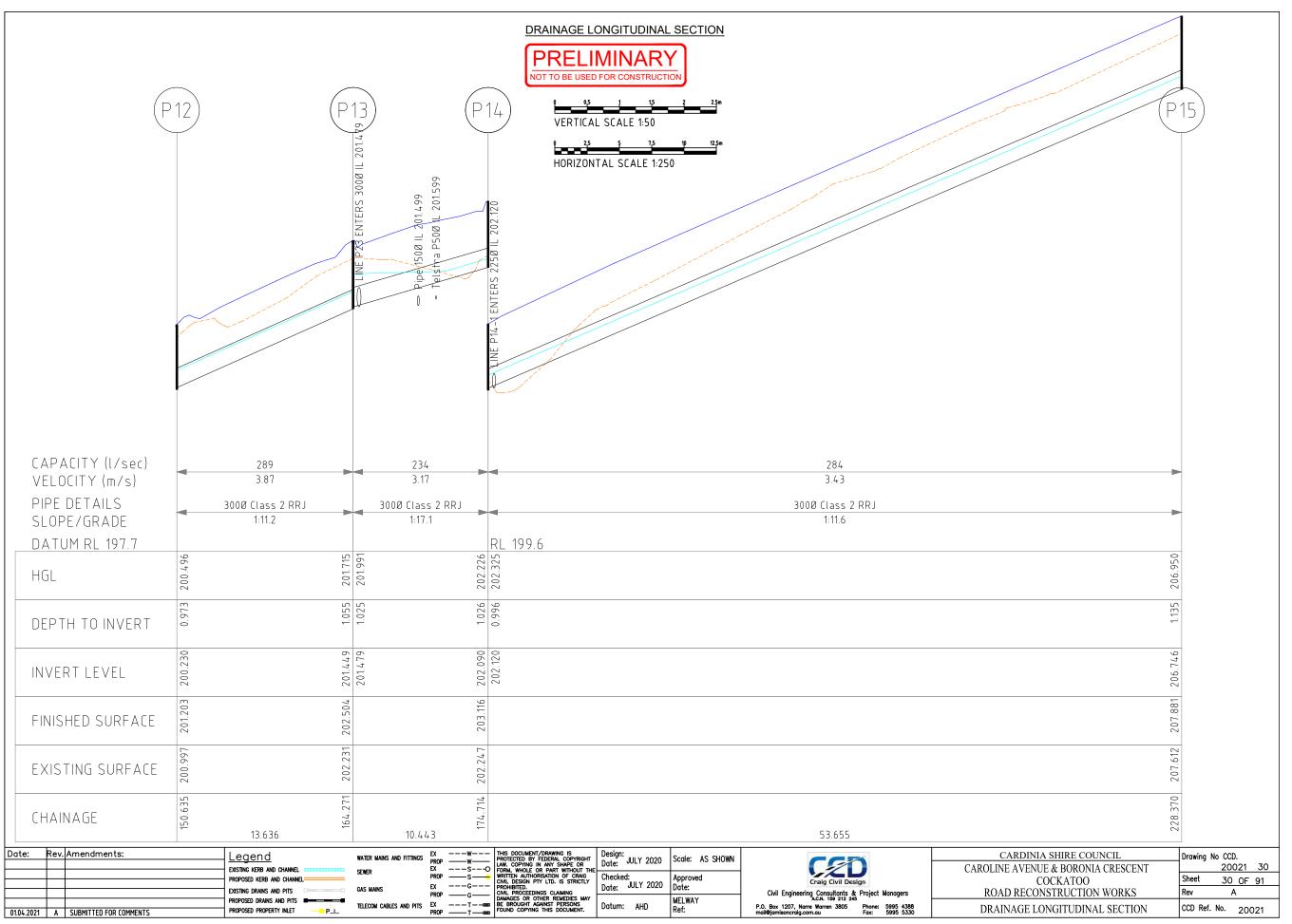
DRAINAGE LONGITUDINAL SECTION		CHAINAGE	6 6 5.0	^{+0.5}	8.347	13.38		1,5 2 2.5m
PRELIMINARY NOT TO BE USED FOR CONSTRUCTION			DRAINAGE LONGITU scales: horizo			.INE 1	VERTICAL SCAL 	7,5 10 12.5m
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CAPACITY (l/sec) VELOCITY (m/s) PIPE DETAILS SLOPE/GRADE DATUM RL 183.7	4141 2.88 900Ø Class 2 RRJ 1:20.3	983 4.27 450Ø Class 2 RR. 1:8.4 RL 187.7
HGL		190.350
DEPTH TO INVERT		1.642
INVERT LEVEL	186.240	190.240
FINISHED SURFACE	188.434	
EXISTING SURFACE	188.434 191.882	
CHAINAGE	68 00 00 59.789	7.738
te: Rev. Amendments:	Legend water Mains and Fittings EX W This Document/Drawing is protected by FEDEral copyright Law copyring in any subject or prophy	CARD CAROLINE AVI ROAD RE DRAINAGI

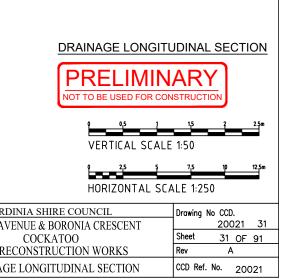


	HORIZONTAL SCALE						
CAPACITY (l/sec) VELOCITY (m/s) PIPE DETAILS SLOPE/GRADE	994 4.23 450Ø Class 2 1:8.2	RRJ	920 4.01 450Ø Class 2 RRJ 1:9.6	450Ø (756 3.49 Class 2 RRJ 1:14.2	553 2.79 450Ø Class 2 RRJ 1:26.5	300
DATUM RL 189.6 HGL	192.256	191.388 194.422 194.422	8	RL 194.2 711.961	197.563 197.614		RL 195. 701.861
DEPTH TO INVERT	2.021	1.852		1.449	1.223		1.492
INVERT LEVEL	192.150	194.282 194.312		196.662	197.441		197.940
FINISHED SURFACE	194.171	196.134		198.111	198.664		199.402
EXISTING SURFACE	193,996	195.919		197.830	198.702		198.878
CHAINAGE	67.527	85.077		107.625	118.273		129.924

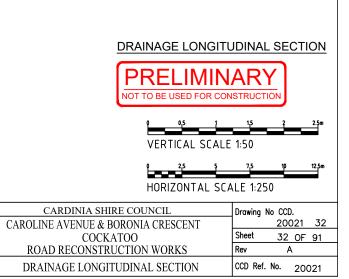




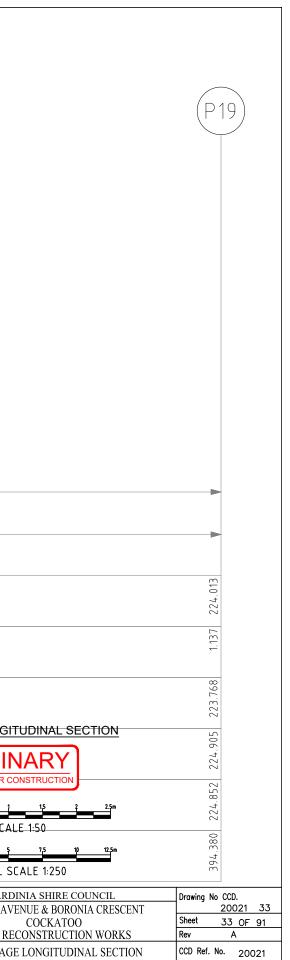
F	P15)			(PI6)		P1
	CINE P15-1 ENTERS 3000 IL 206.776					,
CAPACITY (l/sec) VELOCITY (m/s)		<u> </u>			<u> </u>	
PIPE DETAILS SLOPE/GRADE DATUM RL 204.3		300Ø Class 2 RF 1:10.6	; <u>J</u>	RL 208	300Ø Class 2 RRJ 1.8.8	
HGL	207.013			210.778		213.451
DEPTH TO INVERT	1.105			1.118		0.961
NVERT LEVEL	206.776			210.540		213.199
INISHED SURFACE	207.881			211.658		214.160
EXISTING SURFACE	207.612			211.308		214.041
HAINAGE	228.370	39.798		268.168	23.058	291.226
Rev. Amendments:	<u>Legend</u> Existing kerb and chai		W THIS DOCUMENT/DRAWING IS PROTECTED BY FEDERAL COPYRIGHT LWK. COPYING IN ANY SHAPE OR SOF FORM, WHOLG OR PART WITHOUT THE WRITEN AUTHORISATION OF CRAIG WRITEN AUTHORISATION OF CRAIG WRITEN AUTHORISATION OF CRAIG OF COPYING THIS DOCUMENT. Design: Date: JULY Checked: Date: JULY Checked: Date: JULY Checked: Date: JULY Date: JULY	2020 Scale: AS SHOWN Approved	C2D	CARO



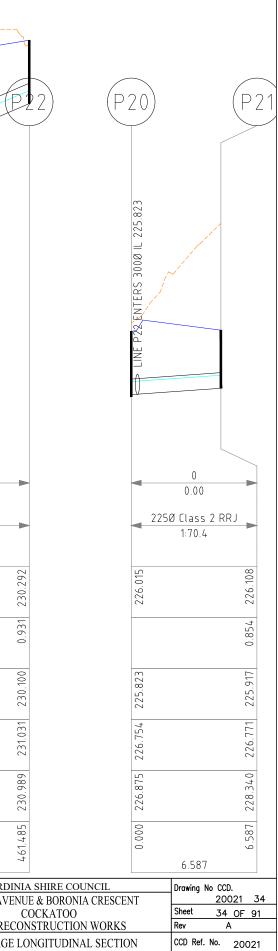
CAPACITY (Ir/sec) VELDCITY (m/s) PIPE DE TALS SLOP J/GRADE DATUM RL 210 7 FGL 60 186 FOR 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 61 62 63 64 65 700 65 700	VELOCITY (m/s)3.29PIPE DETAILS SLOPE/GRADE3000 Class 2 RJDATUM RL 210.718.6HGL0000 Class 2 RJHGL0000 Class 2 RJDEPTH TO INVERT0000 Class 2 RJINVERT LEVEL0000 Class 2 RJFINISHED SURFACE0000 Class 2 RJCHAINAGE0000 Class 2 RJ	e: Rev. Amendments:			WATER MAINS . Sewer Gas Mains	and fittings EX Prop EX Prop EX	w 	THIS DOCUMENT/DRAWING PROTECTED BY FEDERAL LAW. COPYING IN ANY SI FORM, WHOLE OR PART WRITTEN AUTHORISATION CIVIL DESIGN PTY LTD. IS PROHIBITED. CMIL PROCEEDINGS CLUID DAMAGES OR OTHER REM BE BROUGHT AGAINST PE FOUND COPYING THIS DO	G IS COPYRIGHT HAPE OR WITHOUT THE OF CRAIG S STRICTLY Design: Date: Date: Checke	JULY 2020	Scale: AS SHOWN Approved Date:	Cri	aig Civil Design
VELOCITY (m/s)3.29PIPE DETAILS SLOPE/GRADE3000 (Lass 2 RRJDATUM RL 210.718.6HGL8870200 FFR18.6DEPTH TO INVERT601NVERT LEVEL6262689FINISHED SURFACE991000 SURFACE99100 SURFACE99100 SURFACE99100 SURFACE99100 SURFACE99100 SURFACE99100 SURFACE99100 SURFACE99100 SURFACE99100 SURFACE90100 SURFACE90 </th <th>VELOCITY (m/s)329PIPE DETAILS SLOPE/GRADE3000 (lass 2 RRJDATUM RL 210.718.6HGL8820200 (lass 2 CRJ)HGL8820200 (lass 2 CRJ)1000 (lass 2 CRJ)100 (lass 2 CRJ)</th> <th>CHAINAGE</th> <th>291.226</th> <th>2</th> <th>2.322</th> <th></th> <th>313.549</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>	VELOCITY (m/s)329PIPE DETAILS SLOPE/GRADE3000 (lass 2 RRJDATUM RL 210.718.6HGL8820200 (lass 2 CRJ)HGL8820200 (lass 2 CRJ)1000 (lass 2 CRJ)100 (lass 2 CRJ)	CHAINAGE	291.226	2	2.322		313.549						
VELOCITY (m/s)3.29PIPE DETAILS SLOPE/GRADE3000 Class 2 RRJDATUM RL 210.71:8.6HGLEffectDEPTH TO INVERTEffectINVERT LEVELEffectFINISHED SURFACE99,7	VELOCITY (m/s)3.29PIPE DETAILS SLOPE/GRADE3000 Class 2 RRJDATUM RL 210.71:8.6HGLEffectDEPTH TO INVERTEffectINVERT LEVELEffectFINISHED SURFACE99,7	EXISTING SURFACE	214										
VELOCITY (m/s)3.29PIPE DETAILS SLOPE/GRADE3000 Class 2 RJDATUM RL 210.718.6HGLE87 E2DEPTH TO INVERT160INVERT LEVEL627 E2E27 E27 E27 E27 E27 E27 E27 E27 E27 E27	VELOCITY (m/s)3.29PIPE DETAILS SLOPE/GRADE3000 Class 2 RJDATUM RL 210.718.6HGLE87 E2DEPTH TO INVERT160INVERT LEVEL627 E2E27 E27 E27 E27 E27 E27 E27 E27 E27 E27	FINISHED SURFACE											
VELOCITY (m/s) 3.29 PIPE DETAILS 3000 Class 2 RRJ SLOPE/GRADE 1:8.6 DATUM RL 210.7 1:8.6 HGL 89 80 80	VELOCITY (m/s) 3.29 PIPE DETAILS 3000 Class 2 RRJ SLOPE/GRADE 1:8.6 DATUM RL 210.7 1:8.6 HGL 89 80 80	INVERT LEVEL	213										
VELOCITY (m/s)3.29PIPE DETAILS3000 Class 2 RJSLOPE/GRADE1:8.6DATUM RL 210.71:8.6	VELOCITY (m/s)3.29PIPE DETAILS3000 Class 2 RJSLOPE/GRADE1:8.6DATUM RL 210.71:8.6	DEPTH TO INVERT					1.023						
VELOCITY (m/s)3.29PIPE DETAILS3000 Class 2 RJSLOPE/GRADE1:8.6DATUM RL 210.71:8.6	VELOCITY (m/s)3.29PIPE DETAILS3000 Class 2 RJSLOPE/GRADE1:8.6DATUM RL 210.71:8.6		213.483				216.091						
VELOCITY (m/s)3.29PIPE DETAILS3000 Class 2 RRJ	VELOCITY (m/s)3.29PIPE DETAILS3000 Class 2 RRJ												
VELOCITY (m/s) 3.29	VELOCITY (m/s) 3.29						-						



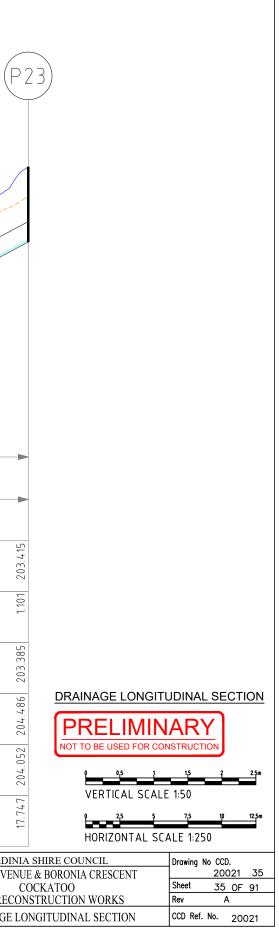
F	8	
CAPACITY (l/sec) VELOCITY (m/s) PIPE DETAILS SLOPE/GRADE DATUM RL 213.3	302 2.48 300Ø Class 2 RRJ 1:10.2	
HGL		
DEPTH TO INVERT		
INVERT LEVEL		
FINISHED SURFACE	2 0 0 2 2 2 1	DRAINAGE LONGI
EXISTING SURFACE	n 0 2 2 2 1	
CHAINAGE	80.831	VERTICAL SCA
Date: Rev. Amendments:	Legend water mains and fittings EX w This Document/Drawing is PROP Design: Date: Design: PROPOSED KERB AND CHANNEL SEWER PROPOSED KERB AND CHANNEL SEWER PROPOSED KERB AND CHANNEL SEWER PROPOSED KERB AND CHANNEL Design: Date: JULY 2020 Scale: AS SHOWN	CARE CAROLINE AV Consultants & Project Managers Consultants & Project Managers



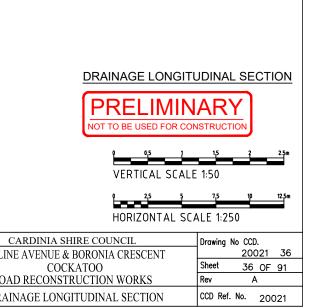
F	019	(P20)			
	CLINE P19-1 ENTERS 3000 IL 223.798	ELINE P21ENTERS 225Ø IL 225.823			
CAPACITY (l/sec) VELOCITY (m/s)	0.00			0.00	
PIPE DETAILS SLOPE/GRADE DATUM RL 221.3	300Ø Class 2 RRJ 1:8.7	RL 223.3		300Ø Class 2 RF 1:11.6	RJ
HGL	224.020	226.015			
DEPTH TO INVERT	1.107	0.961			
INVERT LEVEL	223.798	225.793 225.823			
FINISHED SURFACE	224.905	226.754			DRAINAGE LONGITUDINAL SECTION
EXISTING SURFACE	224.852	226.875			
CHAINAGE	0 0 0 0 0 0 0 0 0 0 0 0 0 0	411.732		49.753	VERTICAL SCALE 1:50
Rev. Amendments: Image: Comparison of the second	EXISTING KERB AND CHANNEL PROPOSED KERB AND CHANNEL PROPOSED KERB AND CHANNEL EXISTING DRAINS AND PITS PROPOSED DRAINS AND PITS PROPOSED DRAINS AND PITS PROPOSED PROPERTY INLETP.I.	WATER MAINS AND FITTINGS EX WWWWWWW	THIS DOCUMENT/DRAWING IS PROTECTED BY FEDERAL COPRIGHT LAW. COPYING IN ANY SHAPE OR O FORM, WHOLE OR PARE WITHOUT THE WRITTEN AUTHORISATION OF CRAIG CMLL DESIGN PTY LTD. IS STRICTLY PROHIBITED. CML PROCEEMINGS CLAMING DAMAGES OR OTHER REMEDIES MAY BE BROUCEEMINGS CLAMING DBM BE BROUCEEMINGS CLAMING DBM BE BROUCEEMINGS CLAMING DAMAGES OR OTHER REMEDIES MAY BE BROUCH AGAINST PERSONS DATUBLE CLAMING CLAMING IN DATUBLE CLAMING CLAMING IN DATUBLE CLAM	LY 2020 Scale: AS SHOWN LY 2020 Approved Date:	Civil Engineering Consultants & Project Managers ACM: 199 212 245 P.O. Box 1207, Narre Warren 3805 Phone: 5995 4388 DRA



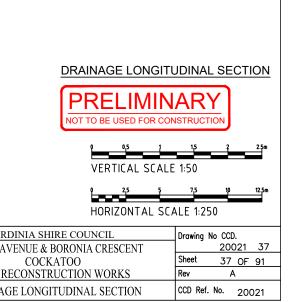
CAPACITY II/Sec! CAPACITY II/Sec! PED EDIALIS SI OPF/GRADF DATUM RL 2213 HGL DFPTH TO INVFRT INSHED SURFACE SI OPF/GRADE DEF DIALIS SI OPF/GRADF DEF DIALIS SI OPF/GRADF DATUM RL 2213 HGL DFPTH TO INVFRT CHAINAGE CHAINAGE	APACITY (I/Sec) 97 97 97 VELCUTY (m/s) 9.78 97 97 PED ETALS 3000 (1555 2 RPJ) 3000 (1555 2 RPJ) 3000 (1555 2 RPJ) PED ETALS 3000 (1555 2 RPJ) 3000 (1555 2 RPJ) 3000 (1555 2 RPJ) PACTUR RL 2213 3000 (1555 2 RPJ) 3000 (1555 2 RPJ) 3000 (1555 2 RPJ) PALTUR RL 2213 RL 213.3 RL 213.3 RL 204.3 IGL RL 213.3 RL 213.3 RL 204.3 VERT LEVEL RL 213 RL 213.3 RL 213.3 VERT LEVEL RL 213 RL 213.3 RL 213.3 VISHED SURFACE RL 213.3 RL 213.3 VERT LEVEL RL 213.3 RL 213.3 VISHED SURFACE RL 213.3 RL 213.3	Rev. Amendments:		Legend	WATER MAINS AND FITTINGS EX	53 	DRAWING IS EDERAL COPYRIGHT ANY SHAPE, OR Date: JULY 2020			17.747 CAF
LAPA(I) Y (I/Sec) CAPA(I) Y (I/Sec) PIEDE DETAILS SLOPE / GRADE DATUM RL 2213 HGL NVERT LEVEL SUPE A CENTRAL SUPE / CENTRAL SUP /	APA(II Y (I/Sec) 97 97 97 97 APA(II Y (I/Sec) 0.78 97 083 900 APA(II Y (I/Sec) 0.78 97 083 APA(II Y (I/Sec) 0.78 900 0.83 APA(II Y (I/Sec) 0.78 900 APA(II Y (I/Sec) 900	CHAINAGE		œ	0	ω		œ	0000	
LAPA(I) Y (I/Sec) CAPA(I) Y (I/Sec) PIEDE DETAILS SLOPE / GRADE DATUM RL 2213 HGL NVERT LEVEL SUPE A CENTRAL SUPE / CENTRAL SUP /	APA(II Y (I/Sec) 97 97 97 97 APA(II Y (I/Sec) 0.78 97 083 900 APA(II Y (I/Sec) 0.78 97 083 APA(II Y (I/Sec) 0.78 900 0.83 APA(II Y (I/Sec) 0.78 900 APA(II Y (I/Sec) 900	EXISTING SURFAC	224.852	_t	216.683	216.993	207.612	207.184	202.231	
CAPACITY (I/sec) 97 97 317 VELOCITY (I/sec) 97 0.83 181 JPPE DETAILS 3008 Class 2 RRJ 3008 Class 2 RRJ 3008 Class 2 RRJ SLOPE/GRADE 1100.0 RL 213.3 RL 213.3 RL 213.3 HGL 772 660 701 601 153 DEPTH TO INVERT 100 100 100 100 100 100 NVERT LEVEL 622 620 92 92 92 100 100	CAPACITY (I/sec) /ELQUITY (I/	FINISHED SURFAC	224	224	216	216	207			
CAPACITY (I/sec) VELOCITY (m/s) PIPE DETAILS SLOPE/GRADE DATUM RL 221.3 HGL E E E E E E E E E	EAPACITY (I/sec) 97 97 317 VELOCITY (m/s) 97 0.83 97 PIPE DETAILS 3000 (lass 2 RR) 1100.0 SLOPE/GRADE 1100.0 RL 213.3 HGL 72 72 KE	NVERT LEVEL		22	215.	215.	206			
CAPACITY (I/sec) VELOCITY (I/sec) VELOCITY (m/s) PIPE DETAILS SLOPE/GRADE DATUM RL 2213 DATUM RL 2213 DA	EAPACITY (I/sec) VELOCITY (m/s) PIPE DETAILS SLOPE/GRADE DATUM RL 221.3 PIPE 221.3 PIPE DETAILS SLOPE/GRADE DATUM RL 221.3 PIPE DETAILS SLOPE/GRADE PIPE DETAILS PIPE DETAIL	DEPTH TO INVERT	1.107	1.022	6.03	1.026	1.105	1.022	1.025	
CAPACITY (I/sec) VELOCITY (I/sec) VELOCITY (m/s) PIPE DETAILS SLOPE/GRADE DATUM RL 2213 DATUM RL 2213 DA	EAPACITY (I/sec) VELOCITY (m/s) PIPE DETAILS SLOPE/GRADE DATUM RL 221.3 PIPE 221.3 PIPE DETAILS SLOPE/GRADE DATUM RL 221.3 PIPE DETAILS SLOPE/GRADE PIPE DETAILS PIPE DETAIL		224.020	224.113	216.112	216.211	207.013	207.111	201.991	
CAPACITY (I/sec) VELOCITY (m/s) VELOCITY (m/s)	CAPACITY (I/sec) 97 VELOCITY (m/s) 97 0.78 0.83 0001 97 0.78 0.83 0001 0.78 0.001 0.78 0.001 0.78 0.001 0.78 0.001 0.78 0.001 0.78 0.001 0.78 0.001 0.78 0.001 0.78 0.001 0.78 0.001 0.78 0.001 0.78 0.001 0.78 0.001 0.78 0.001 0.78 0.777 0.78 0.777 0.78 0.777 0.78 0.777 0.78 0.7777 0.7777 0.7777 0.7777 0.7777 0.7777 0.7777 0.7777 0.7777 0.7777 0.7777 0.7777 0.7777 0.7777 0.77777 0.77	SLOPE/GRADE	1:1(0.0	1:10 RL 213.3	0.0	1:100 RL 204.3	0.0		
220 ENTERS 3000 IL 116 ENTERS 3000 IL 114 ENTERS 3000 IL	2000 IL 16 ENTERS 3000 IL 16 ENTERS 3000 IL	VELOCITY (m/s)	0.	78	0.1	33	0.8	3		1.81
	23.798 15.867 1.479 454		LINE P20 ENTERS 3000 IL 2		64				EINE P14 ENTERS 3000 IL 20	1500



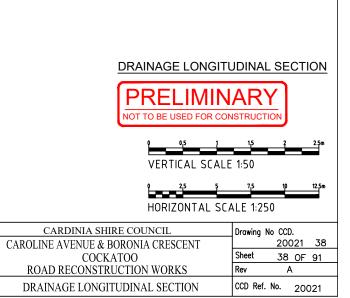
F	23)	(P24)	(P14)	P14-1	P6	P6-1
			LINE Pr& ENTERS 300Ø IL 202.120		E P7 EMTERS 4500 IL 192.150	
CAPACITY (l/sec) VELOCITY (m/s)	<u>322</u> 1.82		0	60 .86		0
PIPE DETAILS SLOPE/GRADE	3000 Class 2 RRJ 1:9.0			ass 2 RRJ 60.7	✓ 225Ø Class 1:21	
DATUM RL 200.9	۰ ب	6	RL 199.6		RL 190.9	00
IGL	203.445	206.049	202.325	202 533	193.461	193.700
EPTH TO INVERT	1.071	0.931	966.0	1.671	0.710	0.714
NVERT LEVEL	203.415	206.012	202.120	202.317	193.461	193.700
INISHED SURFACE	204.486	206.943	203.116	203.989	194.171	194.414
	204.052	206.961	.247	.342	996	194.441
XISTING SURFACE			202	203.	193.	
HAINAGE	17.747	41.192	0000	11.965	0.00.0	5.058
Rev. Amendments:	23.445			.965	5.0	58
	EXISTING KERB AND CHANNEL SEWER PROPOSED KERB AND CHANNEL	AND FITTINGS LA PROP W PROTEC EXSO FORM, PROP S	OPYING IN ANY SHAPE OR Date: JULT 2 WHOLE OR PART WITHOUT THE N AUTHORISATION OF CRAIG Checked:	Approved	CED	
	EXISTING DRAINS AND PITS GAS MAINS PROPOSED DRAINS AND PITS GAS MAINS		ESIGN PTY LTD. IS STRICTLY TED. ROCEEDINGS CLAIMING IS OR OTHER REMEDIES MAY JUGHT AGAINST PERSONS COPYING THIS DOCUMENT. Datum: AHD	2020 Date	Craig Civil Design Civil Engineering Consultants & Project Man AC:N. 159 212 245	nagers



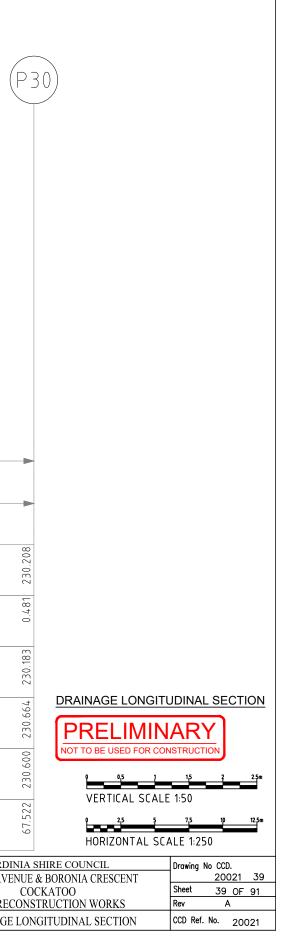
INVERT LEVEL FINISHED SURFACE EXISTING SURFACE	0.000 218.576 218.619 217.900	2.091 218.763 218.863 217.910 217.940 217.940	12.320 218.854 218.822 217.993	218.023		58.390 219.757 219.691 218.282	
NVERT LEVEL	576 218.619	218.863	218.822	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		219.691	
NVERT LEVEL		218.863	218.822	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		219.691	
NVERT LEVEL							
	0	00		m ^			
	0.719	0.923	0.829	56L.0	0.649	1.409	
	218.275	8 218.276 8 218.282	218.335		218.350	218.549	
) ATUM RL 215.4		<u> </u>		<u> </u>			
PIPE DETAILS SLOPE/GRADE	375Ø Class 2 F 1:209.1	RRJ 375Ø	Class 2 RRJ 1:193.0	300Ø Class 2 RRJ 1:208.4	300Ø Class 1:200		
APACITY (l/sec) ′ELOCITY (m/s)	1210.98		126 0.95	67 0.89	68 0.82		
	LINE P 28-1 ENTERS 3000 IL 217.940						



Ŕ	28-1		23	Pz	9	Ŕ	29-1	
		V	- Telstra P500/L 219.926		TIME P30 ENIERS 3000 IL 221.757			
CAPACITY (l/sec) VELOCITY (m/s) PIPE DETAILS SLOPE/GRADE		3(315 2.46 00Ø Class 2 RRJ 1:9.4		300	157 1.22 Ø Class 2 RRJ 1:38.1		
DATUM RL 216.1	7 218.714			221.51 777.152			E10.777 +	
DEPTH TO INVERT	1.027			0.734	0.70		0.994	
INVERT LEVEL	218.664			221.727	221.757		100.777	
FINISHED SURFACE	219.691			222.461			100.223	
EXISTING SURFACE	219.757			222.582			115.777	
CHAINAGE	58.390		28.808	87.198		9.531	90.129	
ate: Rev. Amendments:		EXISTING KERB AND CHANNEL EXISTING KERB AND CHANNEL EXISTING DRAINS AND PITS PROPOSED DRAINS AND PITS PROPOSED PROPERTY INLET	WATER MAINS AND FITTINGS PR SEWER PR GAS MAINS EX TELECOM CABLES AND PTS PR	yp	REMEDIES MA	THE Date: JULY 2020 Checked: Date: JULY 2020 Date: JULY 2020 Pate: AHD	Approved	Civil Engineering Consultants & Project M Acx. 159 212 & Phone: & P.O. Box 1207, Narre Warren 3805 Phone: & mail@jamisoneraig.com.au

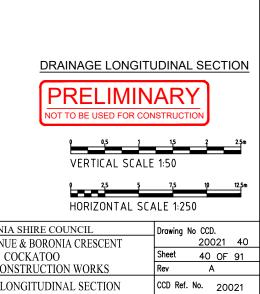


P	CLINE P29-1 ENTERS 3000 IL 221.757	- Talsfrarp500 IL 222.429 - Gas 1500 IL 222.378		- Gas 1500 tt 225.499				
CAPACITY (l/sec) VELOCITY (m/s) PIPE DETAILS SLOPE/GRADE DATUM RL 219.2				300Ø	0 0.00 Class 2 RRJ 1:8.0			
HGL	221.782							
DEPTH TO INVERT	0.704							
INVERT LEVEL	221.757							
FINISHED SURFACE	222.461							
EXISTING SURFACE	222.582							
CHAINAGE	0.000				67.522			
Date: Rev. Amendments:		Legend Existing Kerb and Channel PROPOSED KERB AND CHANNEL Existing Grains and PTS PROPOSED DRAINS AND PTS PROPOSED DRAINS AND PTS PROPOSED DRAINS AND PTS	WATER MAINS AND FITTINGS EX	 YING IN ANY SHAPE OR HOLE OR PART WITHOUT THE AUTHORISATION OF CRAIG	Design: Date: JULY 2020 Checked: Date: JULY 2020 Datum: AHD	Scale: AS SHOWN Approved Date: MELWAY Ref:	Civil Engineering Consultants & Project Managers ACM, 159 212 245 P.O. Box 1207, Narre Warren 3805 mail@jomisoncraig.com.au Fax: 5995 5330	CARI CAROLINE AV ROAD RI DRAINAC

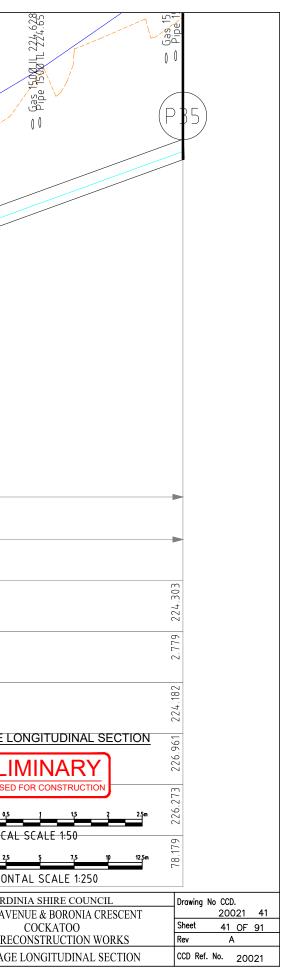


CHAINAGE .e: Rev. Amendments:	0.00.0	12.025	12.025	
	12		~ ! !	
EXISTING SURFACE	2		5 218.403	
FINISHED SURFACE	5		3 218.733	
INVERT LEVEL	217.94.0		218.000	
DEPTH TO INVERT	0.923		0.732	
HGL	218.282		218.290	
PIPE DETAILS SLOPE/GRADE DATUM RL 215.4		300Ø Class 2 RF 1:200.0		
CAPACITY (l/sec) VELOCITY (m/s)		<u>68</u> 0.61		
	LINE 27 ENTERS 3750 IL 217.940			
(P26		₽26-]

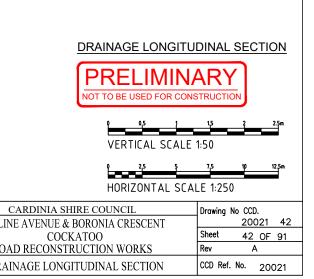
			12.025							
D	ote:	Rev. Amendments:	Legend	water mains and fittings	EXW	THIS DOCUMENT/DRAWING IS PROTECTED BY FEDERAL COPYRIGHT	Design: Date: JULY 2020	Scale: AS SHOWN		CARDINIA SHIRE CO
			EXISTING KERB AND CHANNEL	SEWER	EXSO	LAW. COPYING IN ANY SHAPE OR FORM. WHOLE OR PART WITHOUT THE	Date: JOLT 2020			CAROLINE AVENUE & BORON
-			PROPOSED KERB AND CHANNEL	=	PROPS	WRITTEN AUTHORISATION OF CRAIG CIVIL DESIGN PTY LTD. IS STRICTLY	Checked:	Approved	Craig Civil Design	COCKATOO
			Existing drains and pits	GAS MAINS	PROPG	CIVIL PROCEEDINGS CLAIMING	Date: JULY 2020	Date:	Civil Engineering Consultants & Project Managers	ROAD RECONSTRUCTION
	0/ 2024		PROPOSED DRAINS AND PITS PROPOSED DRAINS AND PITS PROPOSED PROPERTY INLET	TELECOM CABLES AND PITS	EXT	BE BROUGHT AGAINST PERSONS FOUND COPYING THIS DOCUMENT.	Datum: AHD	MELWAY Ref:	P.O. Box 1207. Narre Warren 3805 Phone: 5995 4388	DRAINAGE LONGITUDIN
	.04.2021	A SUBMITTED FOR COMMENTS							mail@jamisoncraig.com.au Fax: 5995 5330	



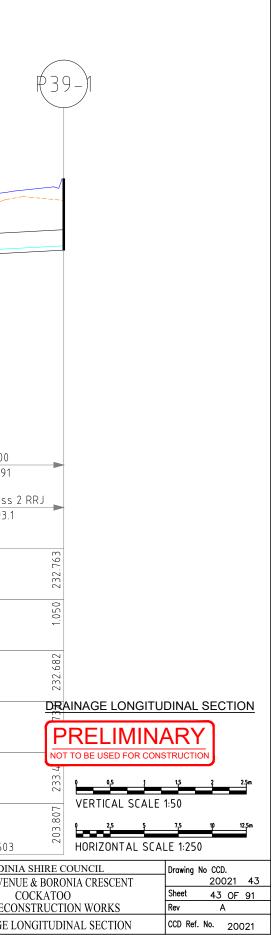
DEPTH TO INVERT INVERT LEVEL FINISHED SURFACE EXISTING SURFACE	0.000 218.928 218.963 217.670 1.293 517.670 1.293 3.815 219.873 220.520 217.902 2.618 3.815 219.873 220.5220 2.17.902 2.618	~	220.401 221.202 221.889 220.542 220.572		49.784	
DEPTH TO INVERT INVERT LEVEL FINISHED SURFACE EXISTING SURFACE	218.928 218.963 217.670 1.293 219.873 220.520 217.902 2.618 219.873 220.520 217.902 2.618	221.102 221.862 220.371	220.401 221.202 221.889 220.542 220.572			NOT T
DEPTH TO INVERT	218.963 217.670 1.293 217.670 2.618 220.520 217.902 2.618 2.618 2.618	221.862 220.371	220.401 221.889 220.542 221.889			PF
DEPTH TO INVERT	217.670 1.293 217.902 2.618 217.902 2.618 1.288	220.371	220.401 220.542 220.542			
PEPTH TO INVERT	1.293 2.618 1.288					
IGL						
	218.120 218.121 218.121 219.317	220.456	220.515 220.656			
PIPE DETAILS SLOPE/GRADE DATUM RL 215.1	4500 Class 2 RRJ 1:16.4 RL 216.7	300Ø Class 2 RRJ 1:14.9	300Ø Class 2 RRJ 1:53.8 RL 2	18	300Ø Class 2 RRJ 1:13.8	
APACITY (l/sec) 'ELOCITY (m/s)	703 2.53	250 2.67	132 1.64		260 2.58	
		- Pipe 1500 /L 219.861			 Gas 1500 L 222499 ⇒ Pipe 1500 L 222.473 	

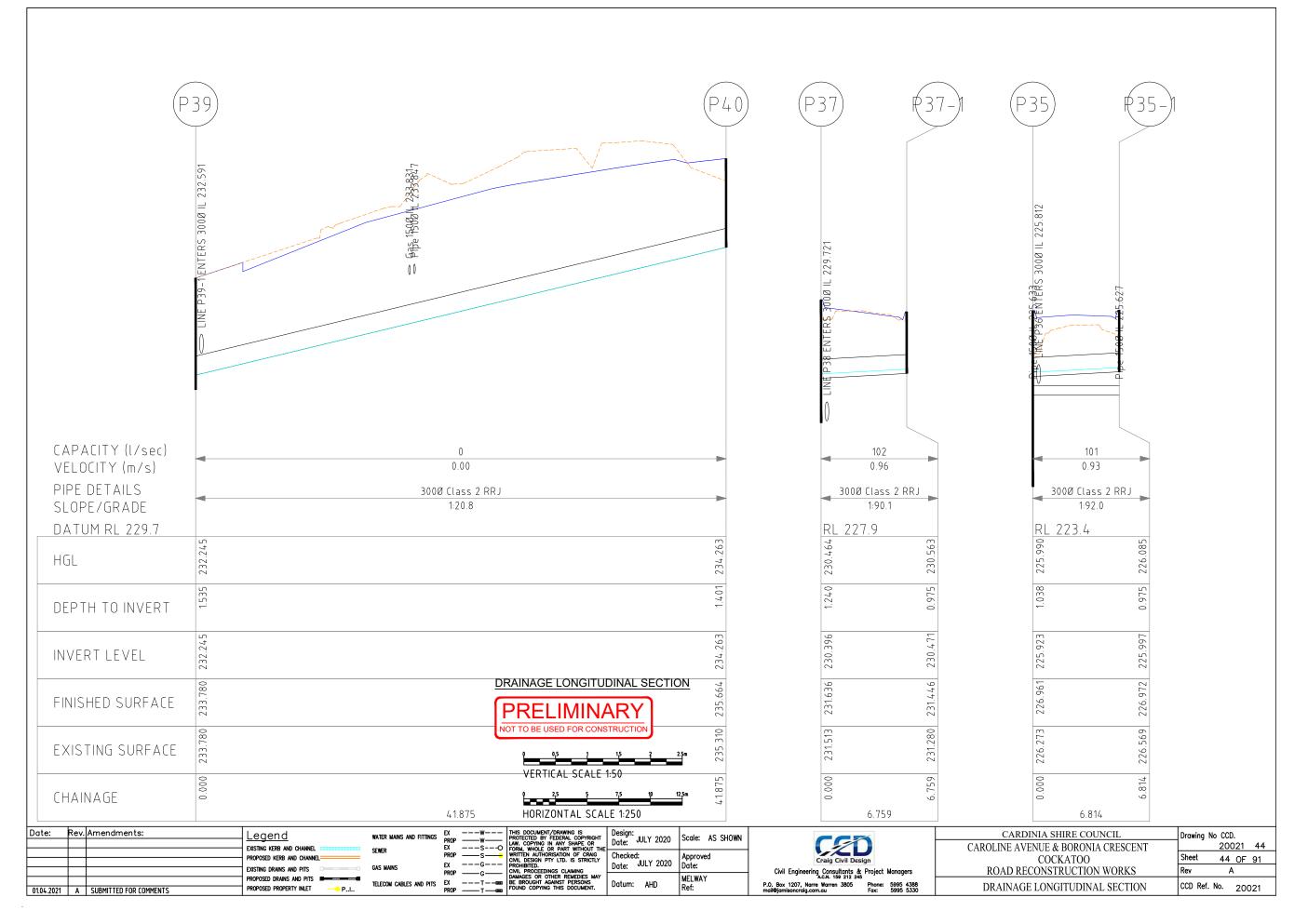


EXISTING SURFACE	78.179 226.3		101.414 2			133.721	
	226		\sim			1	
INISHED SONI ACE	273		229.335			231.513	
INISHED SURFACE	226.961		229.358			231.636	
IVERT LEVEL	225.812		227.797 227.97			229.691	
EPTH TO INVERT	1.14.9		1.561 1.431			1.945	
GL	225.870		227.855 227.992			229.756	
LOPE/GRADE ATUM RL 223.3		1:11.7	RI	. 225.4	1:18.3		
IPE DETAILS		300Ø Class 2 RI	RJ		300Ø Class 2 RRJ		
APACITY (l/sec) 'ELOCITY (m/s)		<u>283</u> 2.40			226		
	INE P35-11 ENTERS 300Ø IL 225.923		= βas 1500 IL 227 826	S Pape 15008/4, 2229:0930		 Gas 1500 IL 230.242 ⇒ Pipe 1500 IL 230.242 	



INVERT LEVEL		232.199 232.286 230.782 1.50 230.812 1.47	233.780 233.780 232.015 1.765	2
		230.782 1.50 230.812 1.47	232.015 232.015 237.501 118	2
INVERT LEVEL		1.471	1.765 1.180	2
HGL 462 DEPTH TO INVERT 461		RL 228.3 30.8326 540.8326 540.	232.059	
CAPACITY (I/sec) VELOCITY (m/s) PIPE DETAILS SLOPE/GRADE DATUM RL 227.2	156 1.26 300Ø Class 2 RRJ 1:38.6		233 1.69 Ø Class 2 RRJ 1:17.2	100 0.91 300Ø Class 1:93.1
Cline P37-1 ENTERS 3000 IL 230.396			- Gas 1500 IL 232.007	Cline 240 ENTERS 3000 IL 232
(P37)	(P38)	(P3)	(dst) a

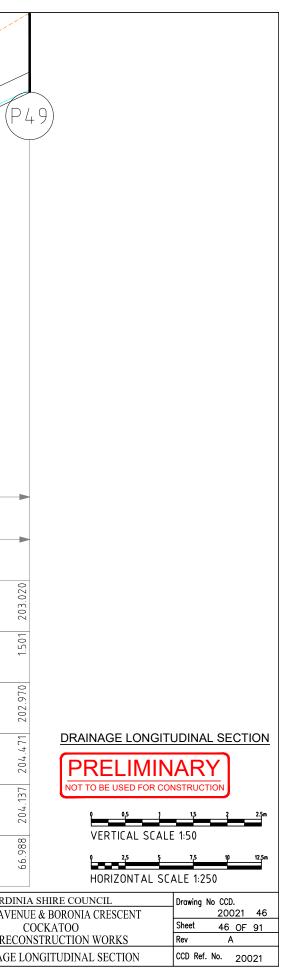




329 23 23 23 23	Rev. Amendments:		rd d RB and channel ===================================	WATER MAINS AND FITTINGS EX PROP SEWER EX PROP	W HIS DOCUMENT/DRAWING IS PROTECTED BY FEDERAL COPYRIGHT SO FORM, WINCLE OR PART WITHOUT THE S	Design: Date: JULY 2020 Scale: AS SHOWN Checked:	CED	CAROLINE
APA(II Y [I/sec] APA(II Y [I/sec] J76 DETALS SLOPE/GRADE JATURE L 2317 HGL APA(II Y [I/sec] J76 DETALS SLOPE/GRADE J76 DETALS J76 DETALS J77 DETALS J76 DETALS J77 DETALS J76 DET	CHAINAGE		2.76	Ľ	32		5	
IAPACITY (I/sec) 376 103 175 199 JAPACITY (I/sec) 376 103 175 199 JAPACITY (I/sec) 376 103 175 199 JAPACITY (I/sec) 376 103 175 199 JAPE DETAILS 3008 Closs 2 RRJ 3008 Closs 2 RRJ 3008 Closs 2 RRJ JOBUR Closs 2 RRJ 3008 Closs 2 RRJ 3008 Closs 2 RRJ 3008 Closs 2 RRJ JATUM RL 231.7 156.6 188.4 130.5 1523.6 JAEPTH TO INVERT 100 100 100 00 100 00 100 00 VERT LEVEL 100 100 00 10	EXISTING SURFACE	5	235.4	235.	236.			
APACITY (I/sec) 375 103 175 199 VEDUTY (I/sec) 375 0.3 175 199 JEDETAILS 3000 (lass 2 RR) 3000 (lass 2 RR) 3000 (lass 2 RR) JATUM RL 231.7 3000 (lass 2 RR) 3000 (lass 2 RR) 3000 (lass 2 RR) IGL 75 198 100 198 VERT LEVEL 800 800 800 800 800 VVERT LEVEL 800 800 800 800 800 800	INISHED SURFACE		235	235	236			
APACITY (I/sec) 376 103 175 199 //ELOCITY (m/s) 376 103 175 199 //ELOCITY (m/s) 3000 class 2 RrJ 3000 class 2 RrJ 3000 class 2 RrJ 3000 class 2 RrJ 3000 class 2 RrJ 3000 class 2 RrJ 3000 class 2 RrJ ALDPE/GRADE 16.6 188.4 130.5 123.6 ALTUM RL 231.7 16.5 16.6 188.4 130.5 123.6 OEPTH TO INVERT 005.5 105.5 105.5 105.5 105.5	NVERT LEVEL	234.			235	235		
APACITY (I/sec) (ELOCITY (m/s) PIPE DETAILS BLOPE /GRADE ATUM RL 231.7	EPTH TO INVERT	L.		00	0.725	0.695		
APACITY (I/sec) ELOCITY (m/s) IPE DETAILS LOPE/GRADE		234.570	234.738 235.015	235.067 235.073	235.901	235.916	237.031	1
APACITY (I/sec) (ELOCITY (m/s)) 2.92 0.96 123 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	LOPE/GRADE		RRJ 300	Ø Class 2 RRJ 1:88.4		30		
	ELOCITY (m/s)	2.92		0.96	175 1.23	d I I I I I I I I I I I I I I I I I I I	€ € 199 1.11	
235.748	E(×	P4)1	(P 4 2)	(P43)		1/ ₊ L ₊)		(+5)

DRAINAGE LONGITI	JDINAL SECTION
PRELIMIN NOT TO BE USED FOR COM	
0 0,5 1	1,5 2 2.5m
VERTICAL SCALE	1:50
HORIZONTAL SC	7,5 10 12.5m ALE 1:250
CARDINIA SHIRE COUNCIL	Drawing No CCD.
IE AVENUE & BORONIA CRESCENT	20021 45 Sheet 45 OF 91
COCKATOO D RECONSTRUCTION WORKS	Sheet 45 OF 91 Rev A
NAGE LONGITUDINAL SECTION	CCD Ref. No. 20021

(F	246)	(P47)	(P48)	
		LINE P50 ENTERS 3000 IL 198.237			
CAPACITY (l/sec) VELOCITY (m/s) PIPE DETAILS SLOPE/GRADE	19 1.9 300Ø Clas 1:25	9 ss 2 RRJ 3(96 0.80 00Ø Class 2 RRJ 1:101.5		296 1.78 300Ø Class 2 RRJ 1:10.6
DATUM RL 195.3 HGL	198.125	198.288 198.307	L198.386	5.8	
DEPTH TO INVERT	-0.046	1.151 1.121	1.231 1.200 1		
INVERT LEVEL	197.825	198.207 198.237	198.317 198.347		
FINISHED SURFACE	197.779	199.358	199.547		
EXISTING SURFACE	197.716	199.053	199.286		
CHAINAGE	9.7	012.6	8.088 8.088		49.190
ate: Rev. Amendments:	EXIST PROP EXIST PROP	gend Ng kerb and channel Seed kerb and channel De drans and pits Seed drains and pits Seed property inlet - F	WATER MAINS AND FITTINGS E SEWER E GAS MAINS E TELECOM CABLES AND PITS E	SO FORM, WRITEN AUTHORSATION OF CRAIG S	Scale: AS SHOWN CARE Approved Date: Craig Civil Design CAROLINE AV Civil Engineering Consultants & Project Managers CAROLINE AV MELWAY Ref: P.O. Box 1207, Norre Warren 3805 Phone: 5995 5330



F	247)		P50							(P51)
)Ø IL 198.237										
	ENTERS 3000 IL										
	> LINE P48										
CAPACITY (l/sec) VELOCITY (m/s)	-	147					334				
PIPE DETAILS SLOPE/GRADE	3	00Ø Class 2 RRJ 1:43.2					300Ø Class 2 R 1:8.4	RJ			
DATUM RL 195.7	198.307		198.570 198.571	96						204.084	
DEPTH TO INVERT	1.121		1.285 1.254							1.124	
INVERT LEVEL	198.237		198.501 198.531							204.042	
FINISHED SURFACE	199.358		199.785							205.166	
EXISTING SURFACE	199.053		3 199.623							+ 205.127	
CHAINAGE	0.000	11.373	11.373				46.101			57.474	
Date: Rev. Amendments:		EXISTING KERB AND CHANNEL PROPOSED KERB AND CHANNEL EXISTING DRAINS AND PITS PROPOSED DRAINS AND PITS PROPOSED PROPERTY INLET	00	WATER MAINS AND FITTING Sewer Gas mains Telecom cables and pits	S EX W PROP W PROP S EX SO PROP S EX G PROP G S EX T PROP G G PROP T B	THIS DOCUMENT/DRAWING IS PROTECTED BY FEDERAL COP LAW. COPYING IN ANY SHAPE FORM, WHOLE OR PART WITH WRITTEN AUTHORISATION OF C COLL DESIGN PTY LTD. IS T COLL DESIGN PTY LTD. IS T COLL DESIGN PTY LTD. IS T COLL DESIGN PTY LTD. IS TO COLL DESIGN PTY LTD. IS TO COLL DESIGN PTY LTD. IS TO DAMAGES OR OTHER REVENDE BE BROUGHT AGAINST PERSO FOUND COPYING THIS DOCUM	VRIGHT OR Date: JULY 20 Date: JULY 20 Date: JULY 20 Checked: Date: JULY 20 Date: ALLY 20 Date: JULY 20 Date: ALLY	Approved	Craig Civi Civil Engineering Consult Civil Engineering Consult P.O. Box 1207, Narre Waren 3 mai@jamisoncraig.com.au	ants & Project Managers	CARDINI CAROLINE AVENU (ROAD RECO DRAINAGE LO

DRAINAGE LONGITI	JDINAL SECTION
PRELIMIN NOT TO BE USED FOR COM	
VERTICAL SCALE	1,5 2 2.5m 1:50
HORIZONTAL SC	7,5 10 12,5m ALE 1:250
ARDINIA SHIRE COUNCIL E AVENUE & BORONIA CRESCENT COCKATOO D RECONSTRUCTION WORKS	Drawing No CCD. 20021 47 Sheet 47 0F 91 Rev A
JAGE LONGITUDINAL SECTION	CCD Ref. No. 20021

					s 1500 IL 206.855	→ Gas 1500
	<u>[</u>					
CAPACITY (l/sec) VELOCITY (m/s)	123		 254 2.13	 	4	<u> </u>
PIPE DETAILS	3000 Class 2 RRJ	•	 3000 Class 2 RRJ	 	•	300Ø Class
SLOPE/GRADE DATUM RL 201.3	1:62.3		1:14.4	ſ	RL 204.5	1:12.2
HGL	204.240	204.273 204.273		 206.976	tc0./07	
DEPTH TO INVERT	- 0.069	1.417		 0.933	-	
INVERT LEVEL	203.94.0	204.096		 206.800	707.707	
FINISHED SURFACE	203.871	205.513		 207.732		AGE LONGITUDINAL SE
EXISTING SURFACE	203.796	205.039		 207.423	0,5	BE USED FOR CONSTRUCTION
CHAINAGE	0.000	9.715		 757	VERTICAL	L SCALE 1:50

	(P5	55)		
RRJ				
	209.575			
	0.88、			
	~			
	09.52			
CTION	2 2			
<u></u>	10.4.0			
	7 2			
	79.394 210.427 210.402 209.521			
	5,			
	19.391			
	2			
INIA SHIRE COUNCIL	Drawing	No CO	CD. 2021	48
ENUE & BORONIA CRESCENT COCKATOO	Sheet		3 OF	
CONSTRUCTION WORKS	Rev		A	
E LONGITUDINAL SECTION	CCD Re	ef. No.	200	021

(r	°55)		(P56)		(P57)	(P5		₽€53
						A		
CAPACITY (l/sec) /ELOCITY (m/s)		<u>218</u> 1.81		177 1.47		-	<u> </u>	
PIPE DETAILS SLOPE/GRADE		300Ø Class 2 RRJ 1:19.6		300Ø Class 2 RRJ 1:29.8		-	300Ø Class 2 RRJ 1:27.7	
IGL	209.606		210.736 210.766		211.259		<u>RL 201.6</u> Er Z ¹ Z ¹	205.028
EPTH TO INVERT	0.851		0.978		0.931		20 20	0.931
IVERT LEVEL	209.551		210.681 210.711		211.176		971.407	204.878
INISHED SURFACE	210.4.02		211.659		212.107		ET C. CO2	205.809
XISTING SURFACE	210.427		211.431		211.845		ę20.c02	205.691
	394		101.573		115.400		000	20.848



DRAINAGE LONGITUDI	NAL SECTION
PRELIMIN NOT TO BE USED FOR COM	
VERTICAL SCALE 1:50	2 2.5m
HORIZONTAL SCALE 1:2	10 12.5m
A SHIRE COUNCIL UE & BORONIA CRESCENT	Drawing No CCD. 20021 49
COCKATOO	Sheet 49 OF 91
NSTRUCTION WORKS	Rev A
ONGITUDINAL SECTION	CCD Ref. No. 20021

			Pit S	Sched	dule -	- Dra	inage	Net	work	2						Pit S	Scheo	dule -	Dra	inage	Net	work	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	P H 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)		1		(mm)	(mm)	(mm)	(m)	(mm)	(m)	(m)	(m)	(m)	(m)	
Ex.P4	EXISTING GRATED JUNCTION	750	900	Ex.900	Ex.185.3	Ex.900	186.240	2.194	188.434	367479.20	5800094.587		Ex.P25	EXISTING JUNCTION PIT	600	900		Ex. 375	375	217.900	0.719	218.619	367906.50	5799688.269	
Ex.P5	EXISTING GRATED JUNCTION	750		Ex.900	· ·		190.240		191.882	367538.31	5800085.644		P26	SIDE ENTRY PIT	600	900	375	217.910	300	217.940	0.953	218.863	367905.89	5799690.269	
P6	SIDE ENTRY PIT	600	900	450	191.159	375	192.150	3.012	194.171		5800077.958		1						300	217.940					
						225	193.461						P27	SIDE ENTRY PIT	600	900	300	217.993	300	218.023		218.822	367905.91	5799700.498	
P7	SIDE ENTRY PIT	600	900	375	194.282	375	194.312	1.852	196.134	367556.74	5800077.155		P26-1	SIDE ENTRY PIT	600	900	300	218.000				218.733	367895.74	5799696.729	
P6-1	SIDE ENTRY PIT	600	900	225	193.700			0.714	194.414	367540.02	5800072.966		P28	SIDE ENTRY PIT	600	900	300	218.053		218.083		218.732	367900.58	5799703.728	
P8	SIDE ENTRY PIT	600	900	375	196.662	375	196.692	1.449	198.111	367579.22	5800078.777		P28	SIDE ENTRY PIT	600	900	300	218.282	300	218.664		219.691	367867.95	5799726.587	
P9	JUNCTION PIT	600	900	375	197.441	375	197.471	1.223	198.664	367589.86	5800078.275		P29	SIDE ENTRY PIT	600	900	300	221.727	300 300	221.757 221.757	0.734	222.461	367844.33	5799743.079	
P10	SIDE ENTRY PIT	600	900	375	197.910		197.940	1.411	199.321	367598.45	5800074.453		P30	JUNCTION PIT	600	900	300	230.183	200	221.131	0.481	230.664	367789.26	5799782.151	
P11	SIDE ENTRY PIT	600	900	300	198.598	300	199.828	2.212	200.810	367602.73	5800059.188		P29-1	SIDE ENTRY PIT	600	900	300	222.007				223.001	367835.90	5799738.623	
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		1												
													-												
						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						1												
P23	SIDE ENTRY PIT	600	900	300	203.385	300	203.415	1.101	204.48 6	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		1												
P15-1	SIDE ENTRY PIT	600	900	300	206.861			1.022	207.883	367639.84	5799992.129		1												
P17	JUNCTION PIT	600	900	300	213.199	300	213.229	0.961	214.160	367685.64	5799948.385		1												
P18	SIDE ENTRY PIT	600	900	300	215.837		215.867	1.023	216.860		5799929.725		1												
						300	215.867						1												
P19	SIDE ENTRY PIT	600	900	300	223.768	300	223.798	1.137	224.905	367738.26	5799859.698														
						300	223.798						1												
P18-1	SIDE ENTRY PIT	600	900	300	215.953			1.026	216.979	367691.10	5799924.525		1												
P20	SIDE ENTRY PIT	600	900		225.793	225	225.823	0.961	226.754	367747.17	5799844.811		1												
						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		1												
P22	JUNCTION PIT	600	900		230.100			0.931	231.031		5799801.616		1												
	201121101111				220.100	1	1		1	20.771.00	5														

DRAINAGE PIT SCHEDULE

PRELIMINARY

	-										
	ate: R	lev.	Amendments:	Legend	water mains and fittings	EXW	THIS DOCUMENT/DRAWING IS PROTECTED BY FEDERAL COPYRIGHT	Design: Date: JULY 2020	Scale: AS SHOWN	CCA	CARDIN
				EXISTING KERB AND CHANNEL	SEWER	EXSO	LAW. COPYING IN ANY SHAPE OR FORM, WHOLE OR PART WITHOUT THE				CAROLINE AVEN
- F				PROPOSED KERB AND CHANNEL	JEWER	PROP	WRITTEN AUTHORISATION OF CRAIG CIVIL DESIGN PTY LTD. IS STRICTLY	Checked:	Approved	Craig Civil Design	
				Existing drains and pits	GAS MAINS	EXG PROPG	PROHIBITED. CIVIL PROCEEDINGS CLAIMING	Date: JULY 2020	Date:	Civil Engineering Consultants & Project Managers	ROAD RECO
- H		-		PROPOSED DRAINS AND PITS		-	DAMAGES OR OTHER REMEDIES MAY		MELWAY	A.C.N. 159 212 245	Rond Reet
Ŀ	1.04.2021	A	SUBMITTED FOR COMMENTS	PROPOSED PROPERTY INLET PI	TELECOM CABLES AND PITS	PROPT	BE BROUGHT AGAINST PERSONS FOUND COPYING THIS DOCUMENT.	Datum: AHD	Ref:	P.O. Box 1207, Narre Warren 3805 Phone: 5995 4388 mail@jamisoncraig.com.au Fax: 5995 5330	DRAINA

DINIA SHIRE COUNCIL	Drawing No CCD.
ENUE & BORONIA CRESCENT	20021 50
COCKATOO	Sheet 50 OF 91
CONSTRUCTION WORKS	Rev A
NAGE PIT SCHEDULE	CCD Ref. No. 20021

			Ρ	it Sche	edule -	- Drair	nage A	lignme	nt 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	Comme
		(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	
	· ·		P	it Sch	edule	- Draii	nage N	letwor	'k 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	Comme
		(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	
L						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	

			Ρ	'it Sch	edule	- Drai	nage N	letwor	'k 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	Comm
		(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

PRELIMINARY

Date:	Rev	v. Amendments:	Legend	water mains and fittings		THIS DOCUMENT/DRAWING IS PROTECTED BY FEDERAL COPYRIGHT	Design: Date: JULY 2020	Scale: AS SHOWN		CARDI
			EXISTING KERB AND CHANNEL	CEWED		LAW. COPYING IN ANY SHAPE OR				CAROLINE AVE
			PROPOSED KERB AND CHANNEL	SEWER	PROPS	WRITTEN AUTHORISATION OF CRAIG	Checked:	Approved		
				GAS MAINS	EXG	PROHIBITED.	Date: JULY 2020	Date:	Craig Civil Design	
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				TELECOM CABLES AND PITS		BE BROUGHT AGAINST PERSONS	Datum: AHD	Ref:	P.O. Box 1207. Narre Warren 3805 Phone: 5995 4388	DRAIN
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VENUE & BOR	ONIA CRESCENT	20021 51
COCKATC	00	Sheet 51 OF 91
RECONSTRUCT	TON WORKS	Rev A
AINAGE PIT SC	CHEDULE	CCD Ref. No. 20021

			Pit	Sche	dule -	Drai	inage	Netw	vork 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	Comr
		(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	

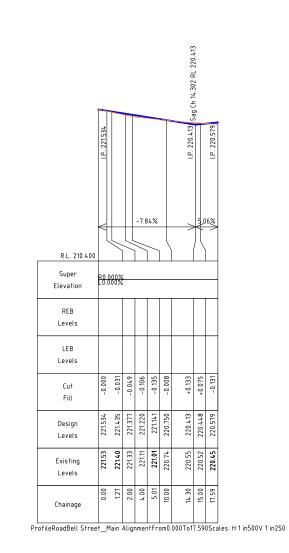
			Pit	Sche	dule -	Dra	inage	Netw	ork 7	7		
Pit No.	Pit Type	Pit Width	Pit Length	Outlet Diameter	Outlet Invert RL	Inlet Diameter	Inlet Invert RL	Pit Depth	Pit Lid Level	Easting	Northing	Comr
		(mm)	(mm)	(mm)	(m)	(mm)	(m)	(m)	(m)	(m)	(m)	
P52	CULVERT WITH HEADWALL AT END					300	203.940			367632.07	5799801.596	
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

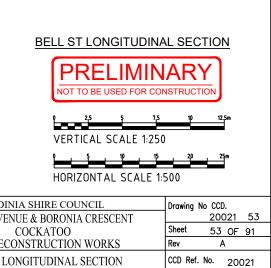
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				PROPOSED KERB AND CHANNEL	JEWER	PROPS	WRITTEN AUTHORISATION OF CRAIG CIVIL DESIGN PTY LTD. IS STRICTLY	Checked:	Approved	Craig Civil Design	
				Existing drains and pits	GAS MAINS	EXG	PROHIBITED. CIVIL PROCEEDINGS CLAIMING	Date: JULY 2020	Date:	Civil Engineering Consultants & Project Managers	ROAD RECC
				PROPOSED DRAINS AND PITS			DAMAGES OR OTHER REMEDIES MAY BE BROUGHT AGAINST PERSONS	Datum AUD	MELWAY	A.C.N. 159 212 245	
)1.04.2021	A	SUBMITTED FOR COMMENTS	PROPOSED PROPERTY INLET	TELECOM CABLES AND PITS	PROPT	FOUND COPYING THIS DOCUMENT.	Datum: AHD	Ref:	P.O. Box 1207, Narre Warren 3805 Phone: 5995 4388 mail@jamisoncraig.com.au Fax: 5995 5330	DRAINA

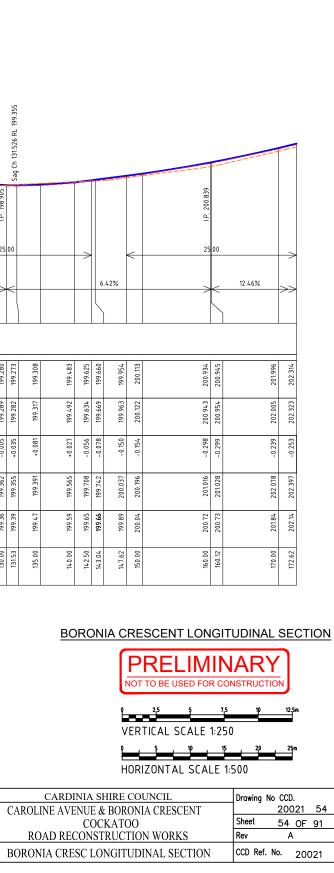
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VENUE & BORONIA (COCKATOO ECONSTRUCTION V	CRESCENT	Drawing No CCD. 20021 Sheet 52 OF Rev A	
AINAGE PIT SCHEDU		CCD Ref. No. 20	021

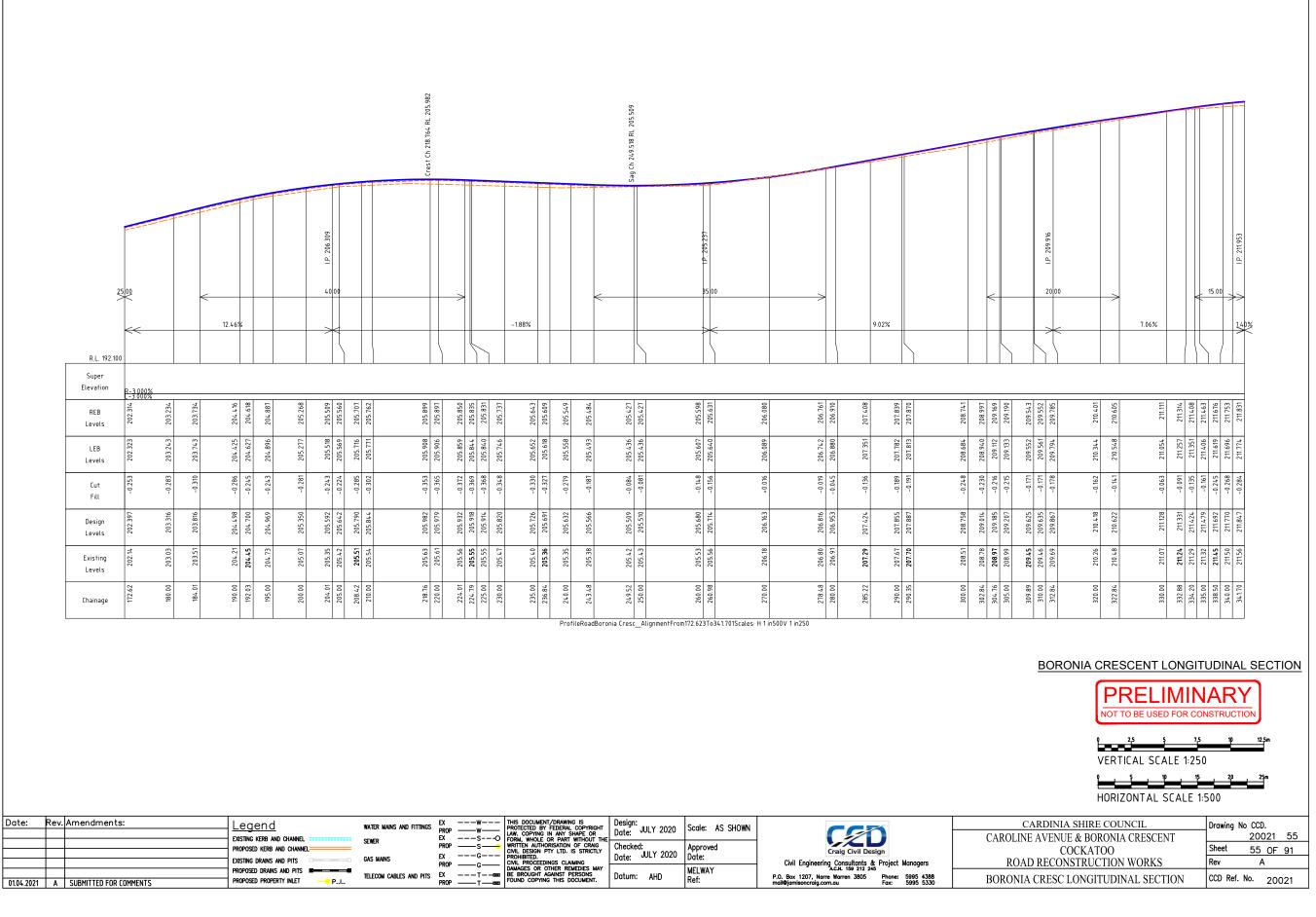


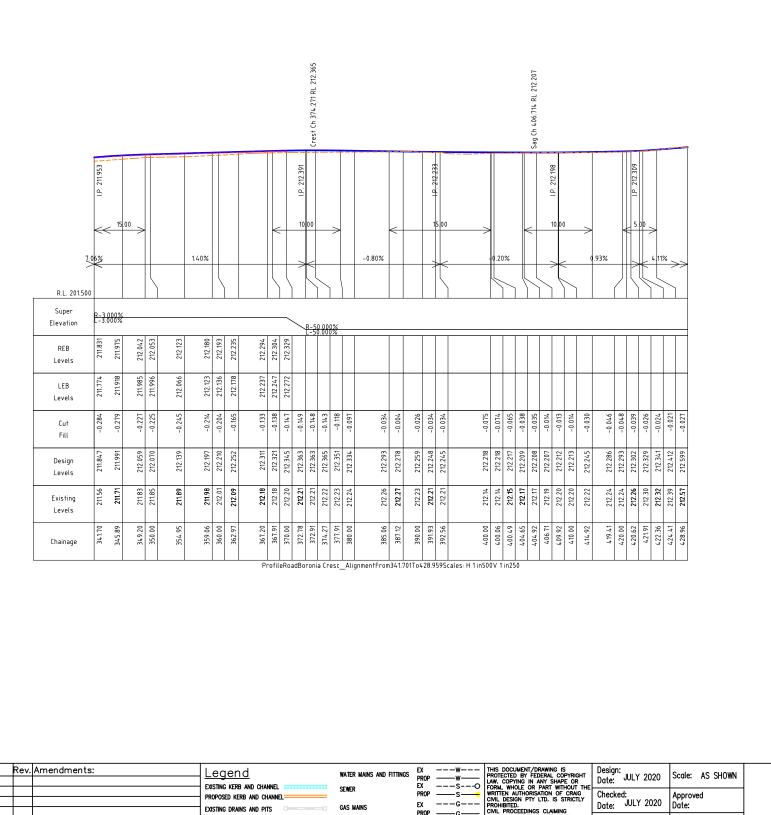
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			PROPOSED DRAINS AND PITS	TELECOM CABLES AND PITS		DAMAGES OR OTHER REMEDIES MAY BE BROUGHT AGAINST PERSONS FOUND COPYING THIS DOCUMENT.	Datum: AHD	MELWAY	P.O. Box 1207, Narre Warren 3805 Phone: 5995 4388	BELL ST LC
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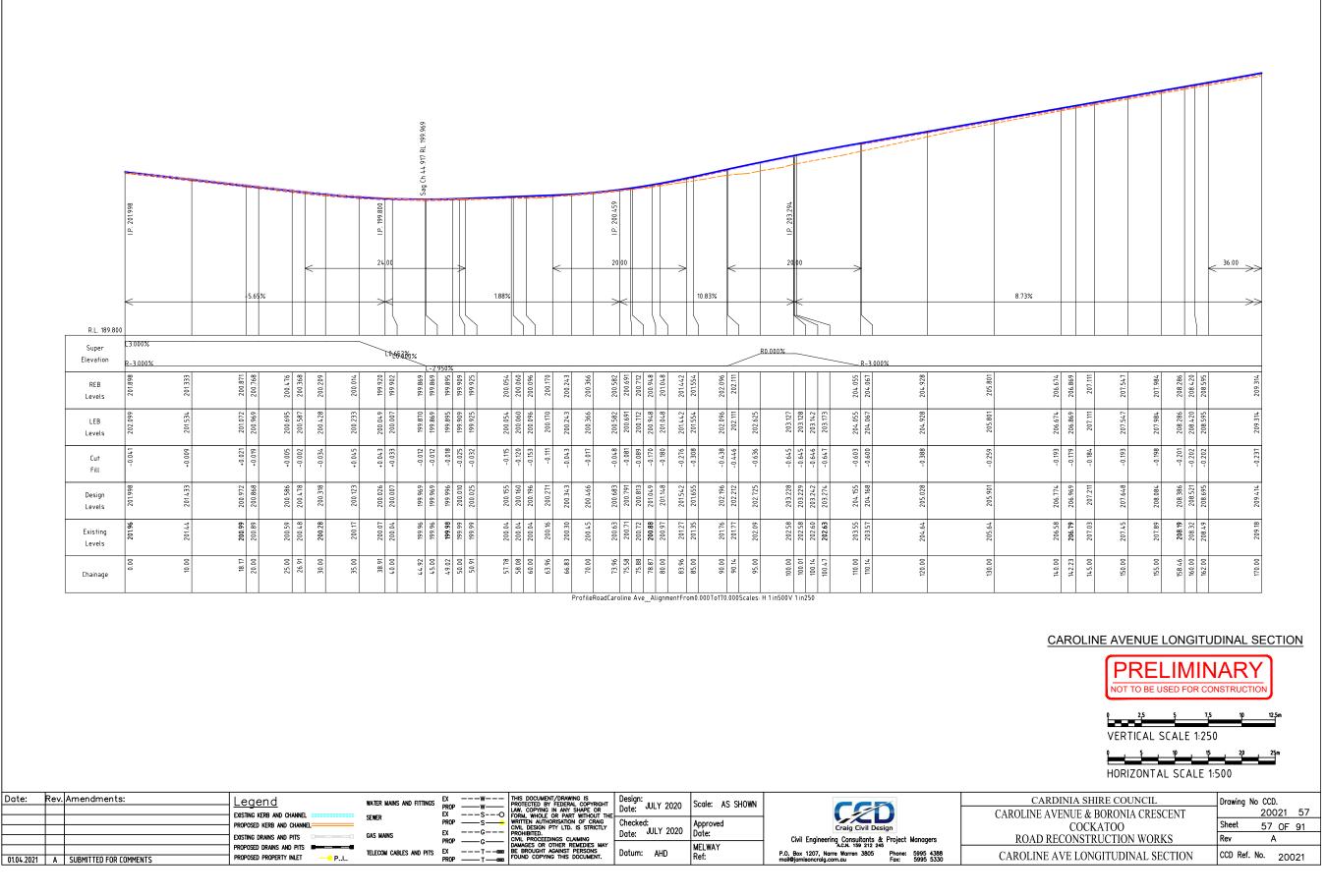




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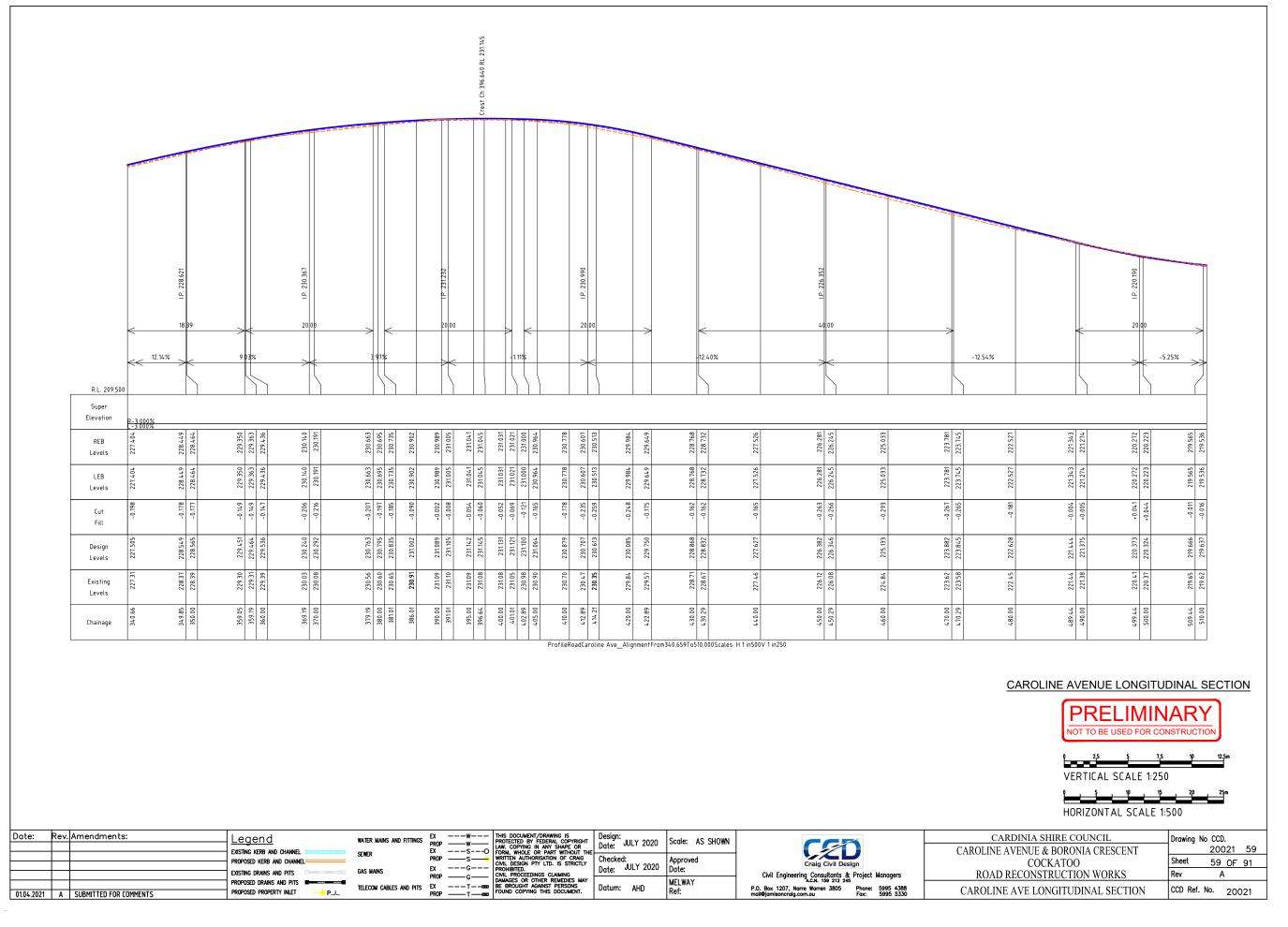
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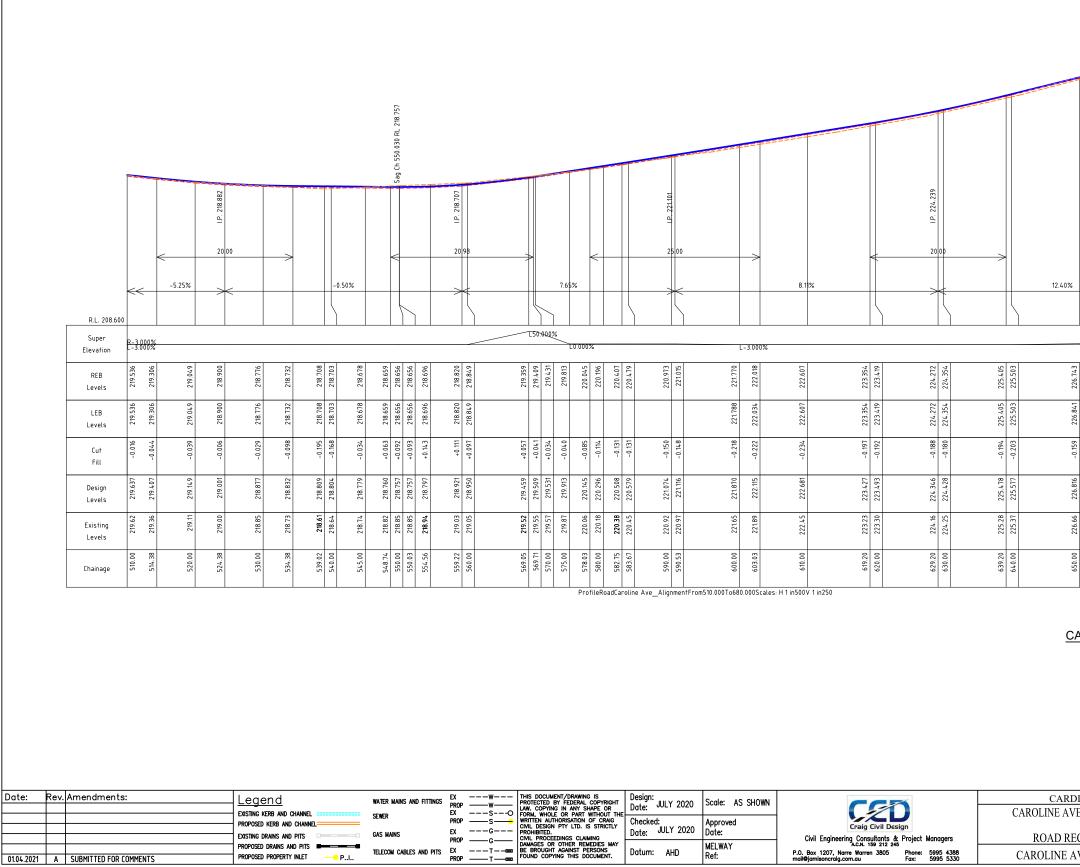
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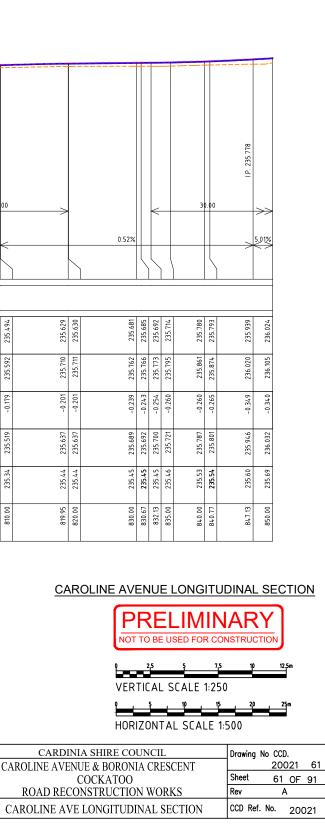
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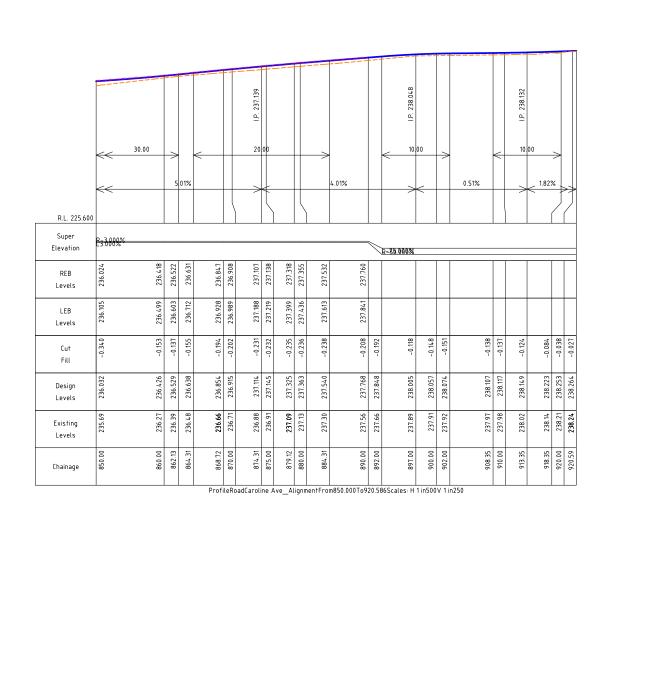




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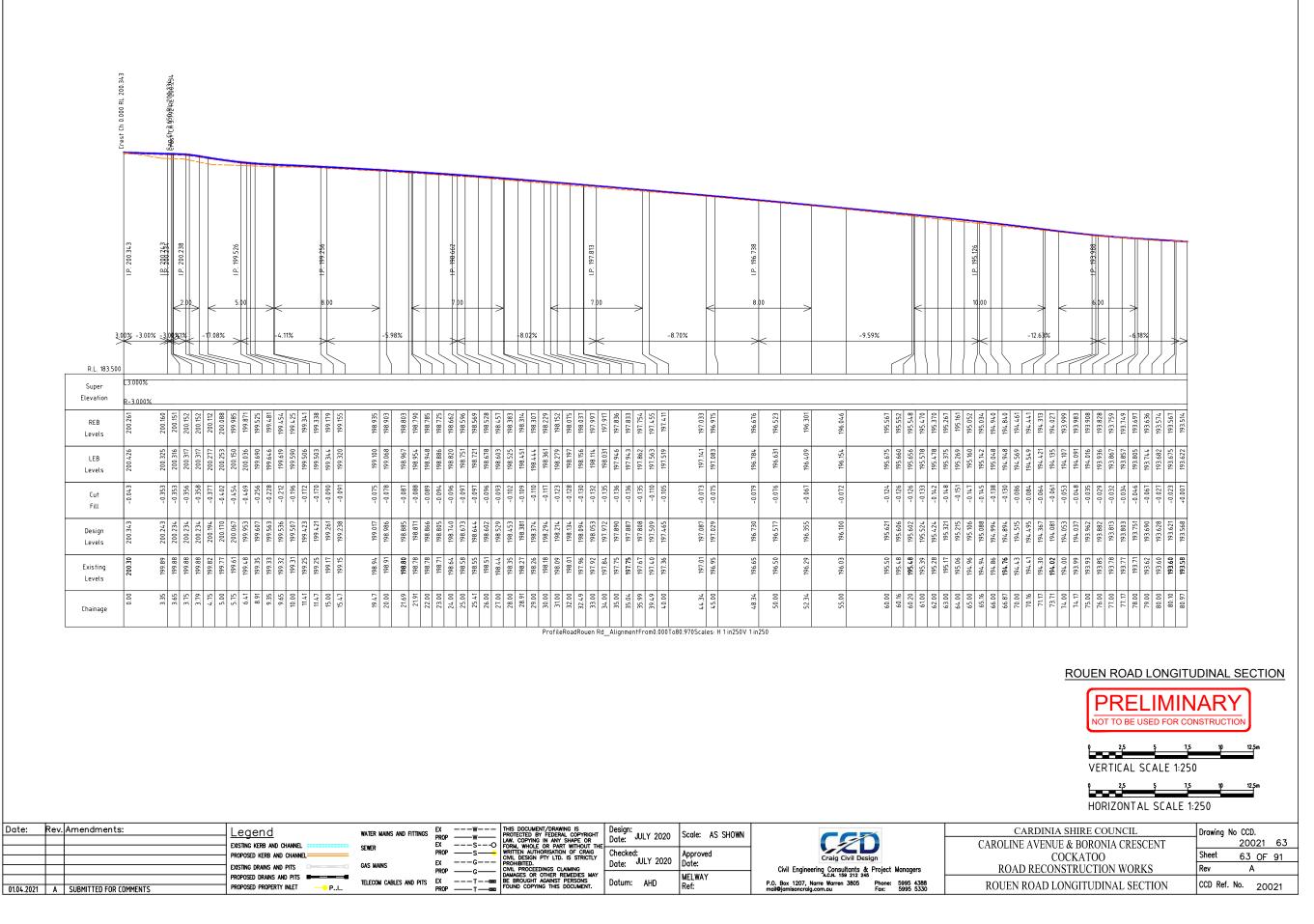
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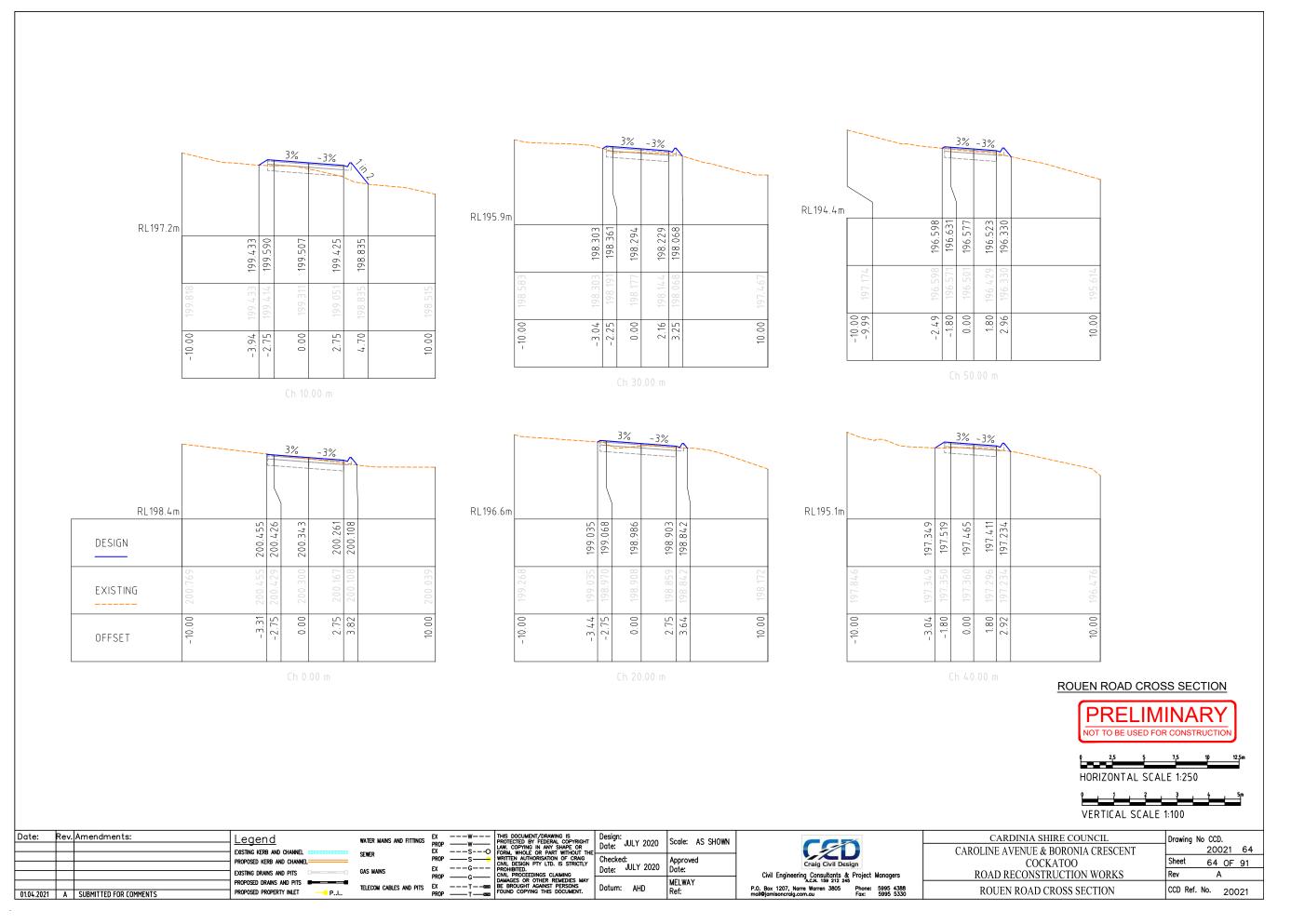


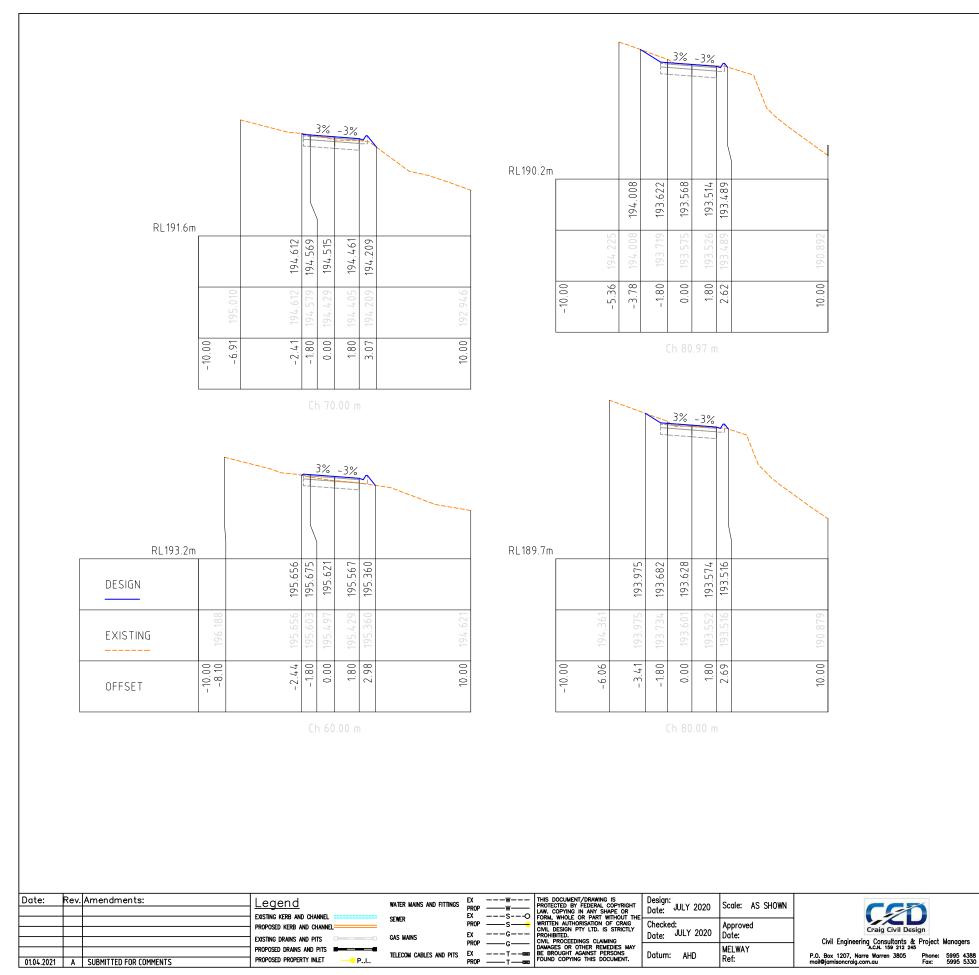


Date:	Rev. Amendments:	Legend	water mains and fittings	S DOOD W I PROTECTED BY FEDERAL COPYRIGHT	Design: Date: JULY 2020	Scale: AS SHOWN	CCO	CARDI
		EXISTING KERB AND CHANNEL	SEWER	EXSO	Date: JULT 2020			CAROLINE AVE
		PROPOSED KERB AND CHANNEL	JEHEN	PROPS WRITTEN AUTHORISATION OF CRAIG	Checked:	Approved	Craig Civil Design	
		EXISTING DRAINS AND PITS	GAS MAINS	EXG PROHIBITED. PROPG CIVIL PROCEEDINGS CLAIMING	Date: JULY 2020	Date:	Civil Engineering Consultants & Project Managers	ROAD REC
		PROPOSED DRAINS AND PITS		DAMAGES OR OTHER REMEDIES MAY		MELWAY	A.C.N. 159 212 245	Rollb REC
01.04.2021	1 A SUBMITTED FOR COMMENTS	PROPOSED PROPERTY INLET PI	TELECOM CABLES AND PITS	S EXT	Datum: AHD	Ref:	P.O. Box 1207, Narre Warren 3805 Phone: 5995 4388 mail@jamisoncraig.com.au Fax: 5995 5330	CAROLINE AV
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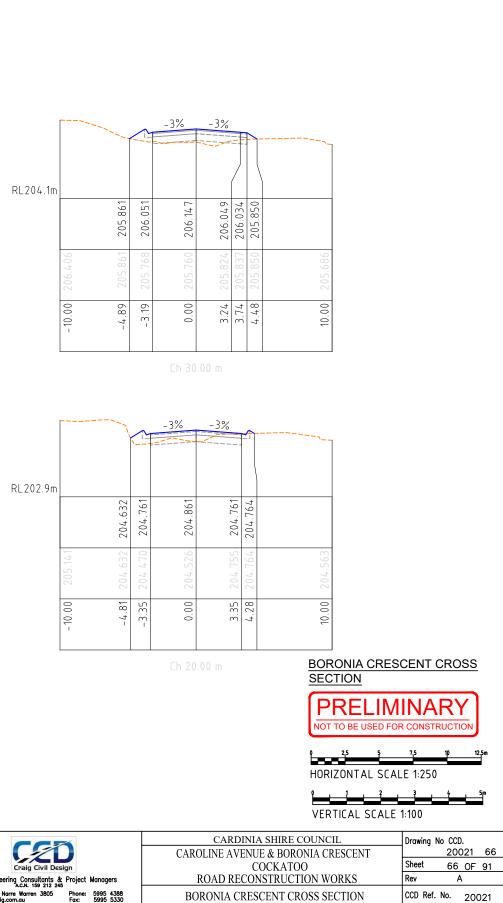
CAROLINE AVENUE LONGITU	DINAL SECTION
PRELIMIN NOT TO BE USED FOR COM	
VERTICAL SCALE 1:250	10 12.5m
HORIZONTAL SCALE 1:	20 25m 500
RDINIA SHIRE COUNCIL VENUE & BORONIA CRESCENT	Drawing No CCD. 20021 62
COCKATOO	Sheet 62 OF 91
RECONSTRUCTION WORKS AVE LONGITUDINAL SECTION	Rev A CCD Ref. No. 20021

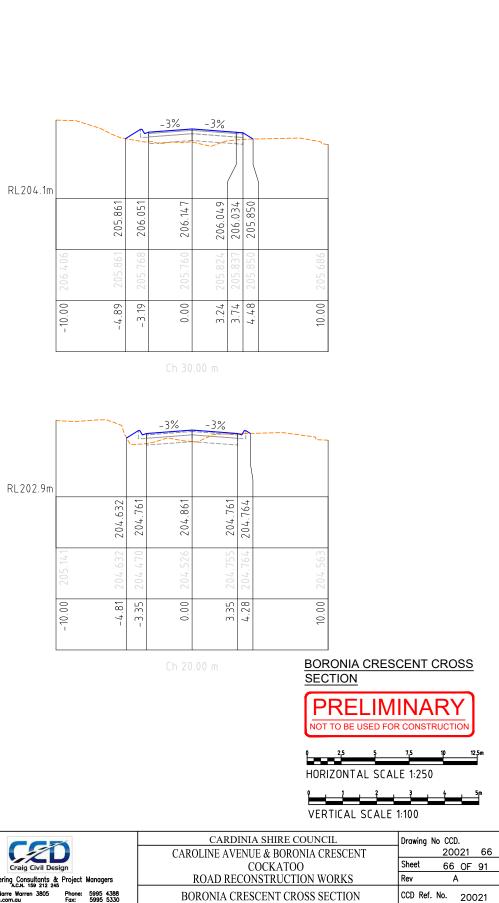




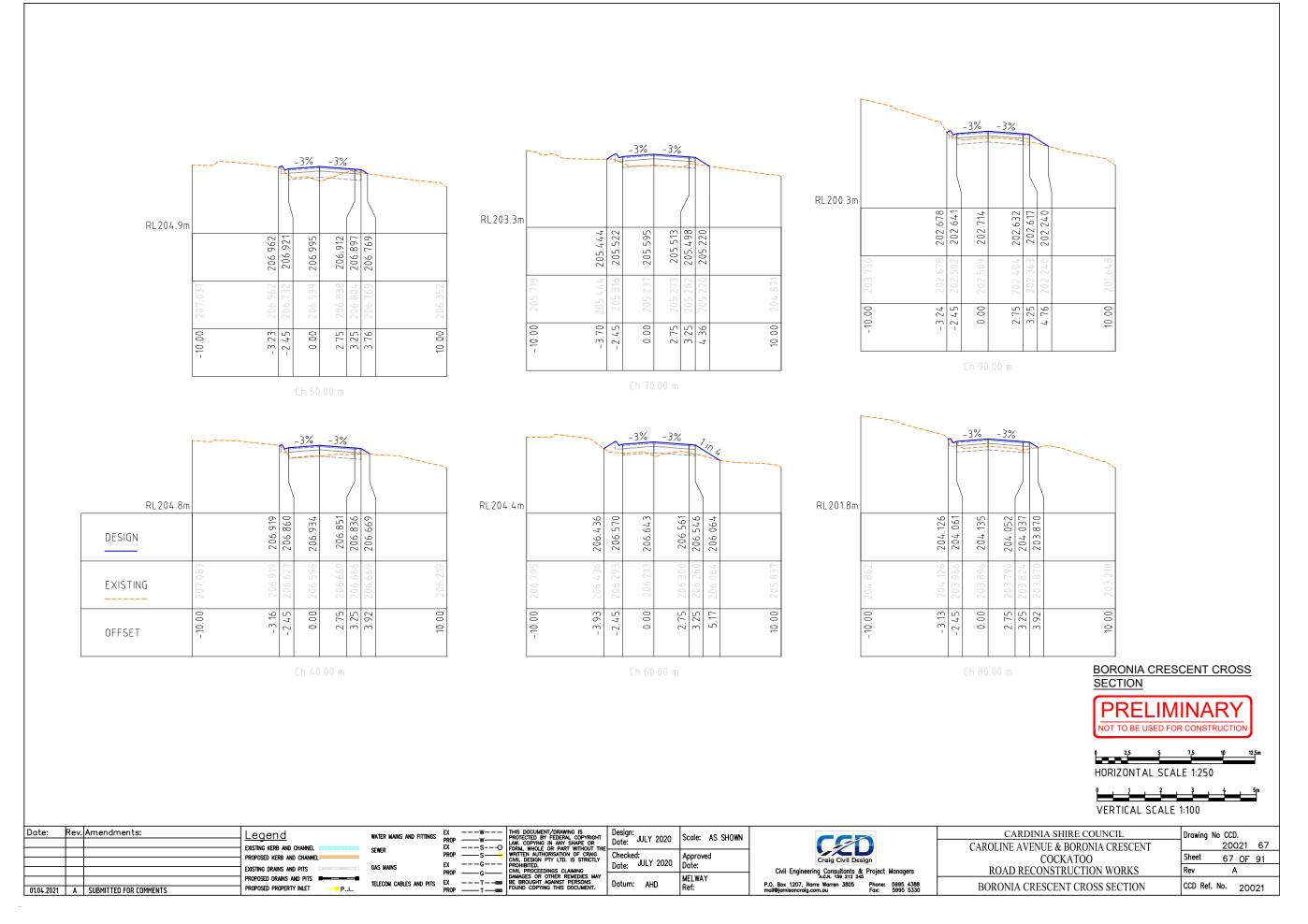


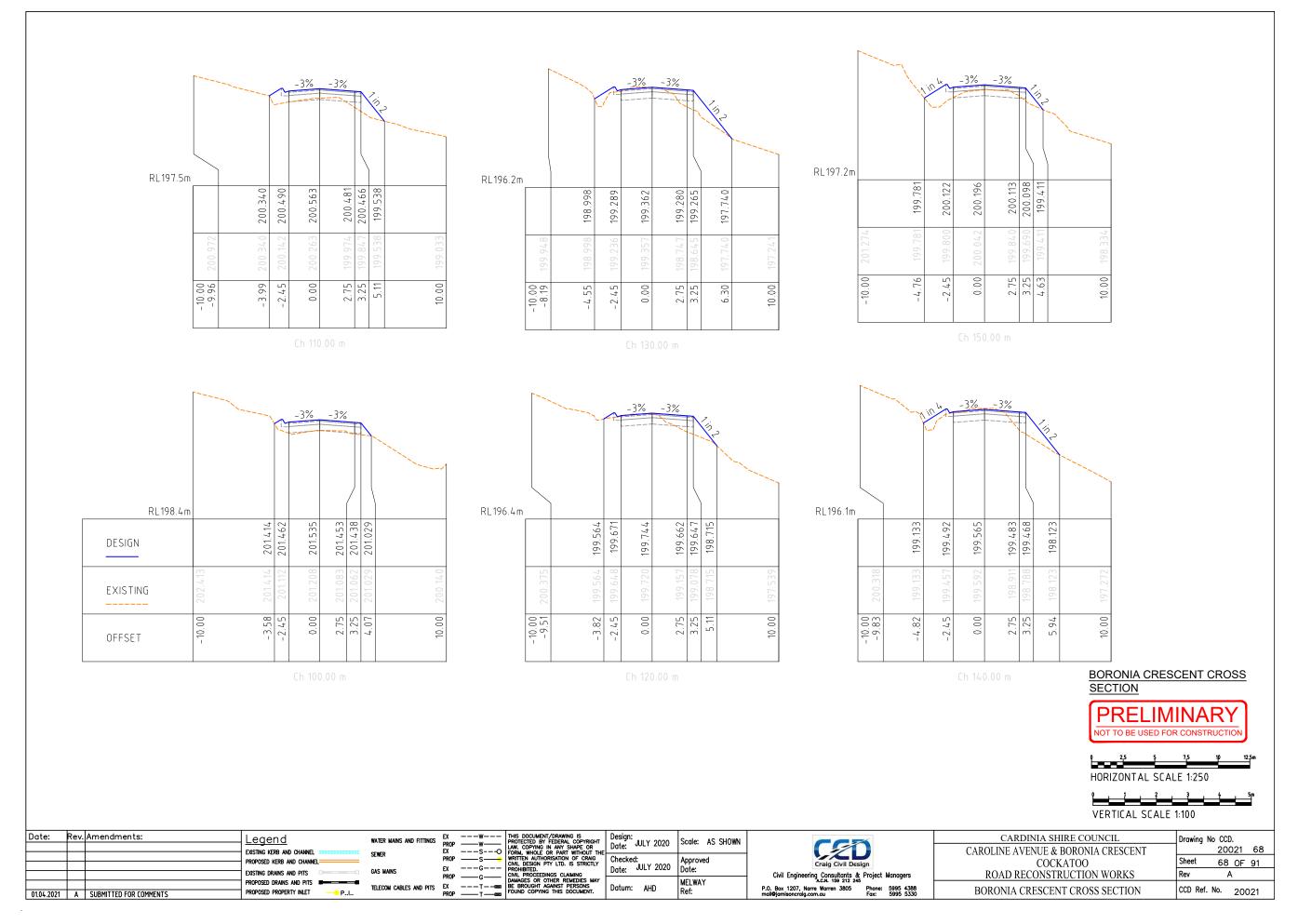
ROUEN ROAD CROS	SS SECTION
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HORIZONTAL SCAL	7,5 10 12.5m
VERTICAL SCALE	<u>≩ 4 5</u> m 1:100
CARDINIA SHIRE COUNCIL	Drawing No CCD.
CAROLINE AVENUE & BORONIA CRESCENT COCKATOO	20021 65 Sheet 65 OF 91
ROAD RECONSTRUCTION WORKS	Rev A
ROUEN ROAD CROSS SECTION	CCD Ref. No. 20021



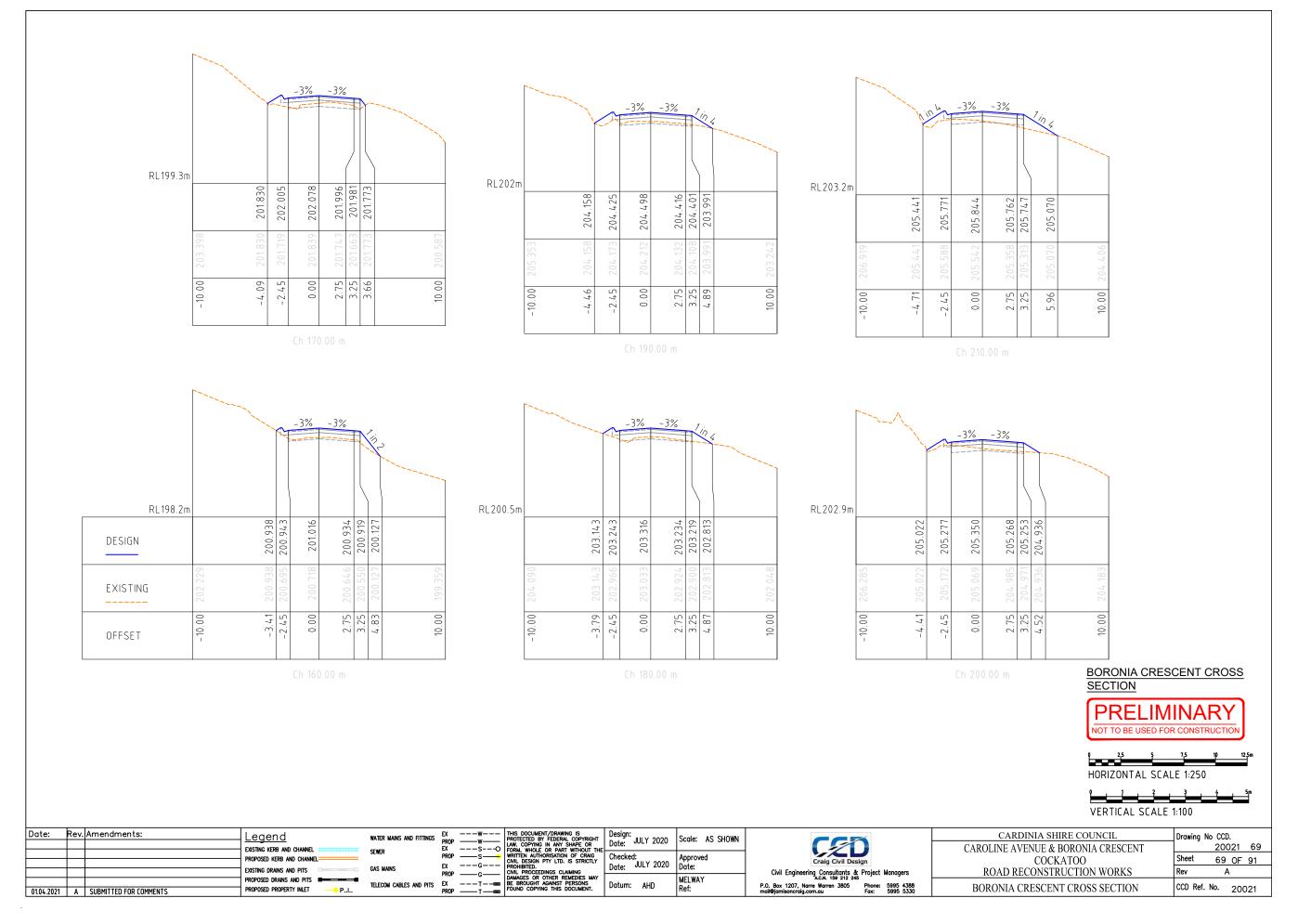


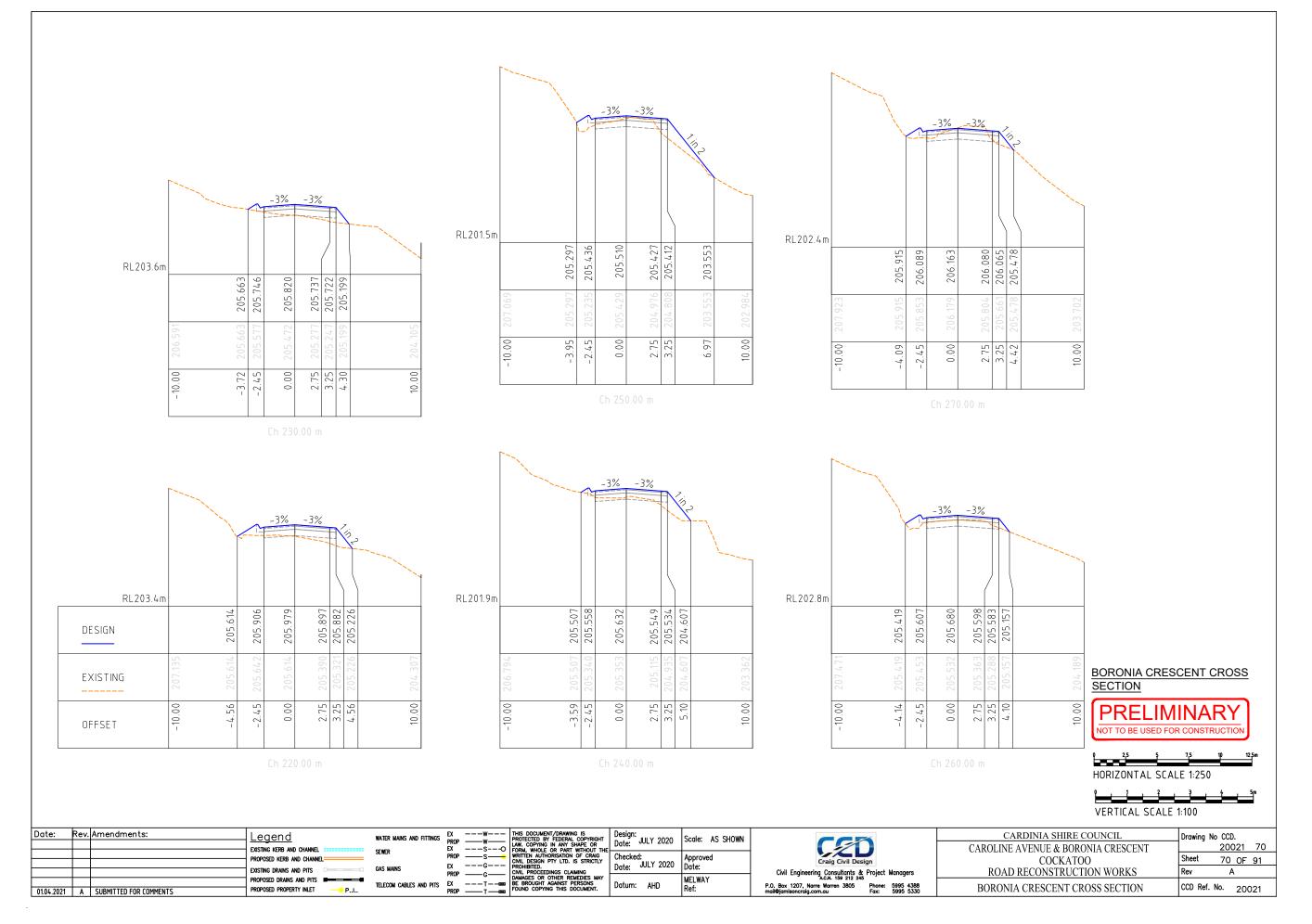
C)ate:	Rev. Amendments:	Legend	water mains and fittings	EXW	THIS DOCUMENT/DRAWING IS PROTECTED BY FEDERAL COPYRIGHT	Design: Date: JULY 2020	Scale: AS SHOWN		CARDINI
			Existing Kerb and Channel	SEWER	EXO	LAW. COPYING IN ANY SHAPE OR FORM. WHOLE OR PART WITHOUT THE	Date: JULY 2020		CED	CAROLINE AVENU
-			PROPOSED KERB AND CHANNEL	JEHEN	PROPS	WRITTEN AUTHORISATION OF CRAIG CIVIL DESIGN PTY LTD. IS STRICTLY	Checked: Date: JULY 2020	Approved	Craig Civil Design	(
			EXISTING DRAINS AND PITS	GAS MAINS	PROPG	CIVIL PROCEEDINGS CLAIMING	Date: JULY 2020	Date:	Civil Engineering Consultants & Project Managers	ROAD RECO
			PROPOSED DRAINS AND PITS	TELECOM CABLES AND PITS	FXT	DAMAGES OR OTHER REMEDIES MAY BE BROUGHT AGAINST PERSONS	Datum: AHD	MELWAY	A.C.N. 159 212 245 P.O. Box 1207. Narre Warren 3805 Phone: 5995 4388	
	01.04.2021	A SUBMITTED FOR COMMENTS	PROPOSED PROPERTY INLET PI		PROPT	FOUND COPYING THIS DOCUMENT.		Ref:	mail@jamisoncraig.com.au Fax: 5995 5330	BORONIA CRES

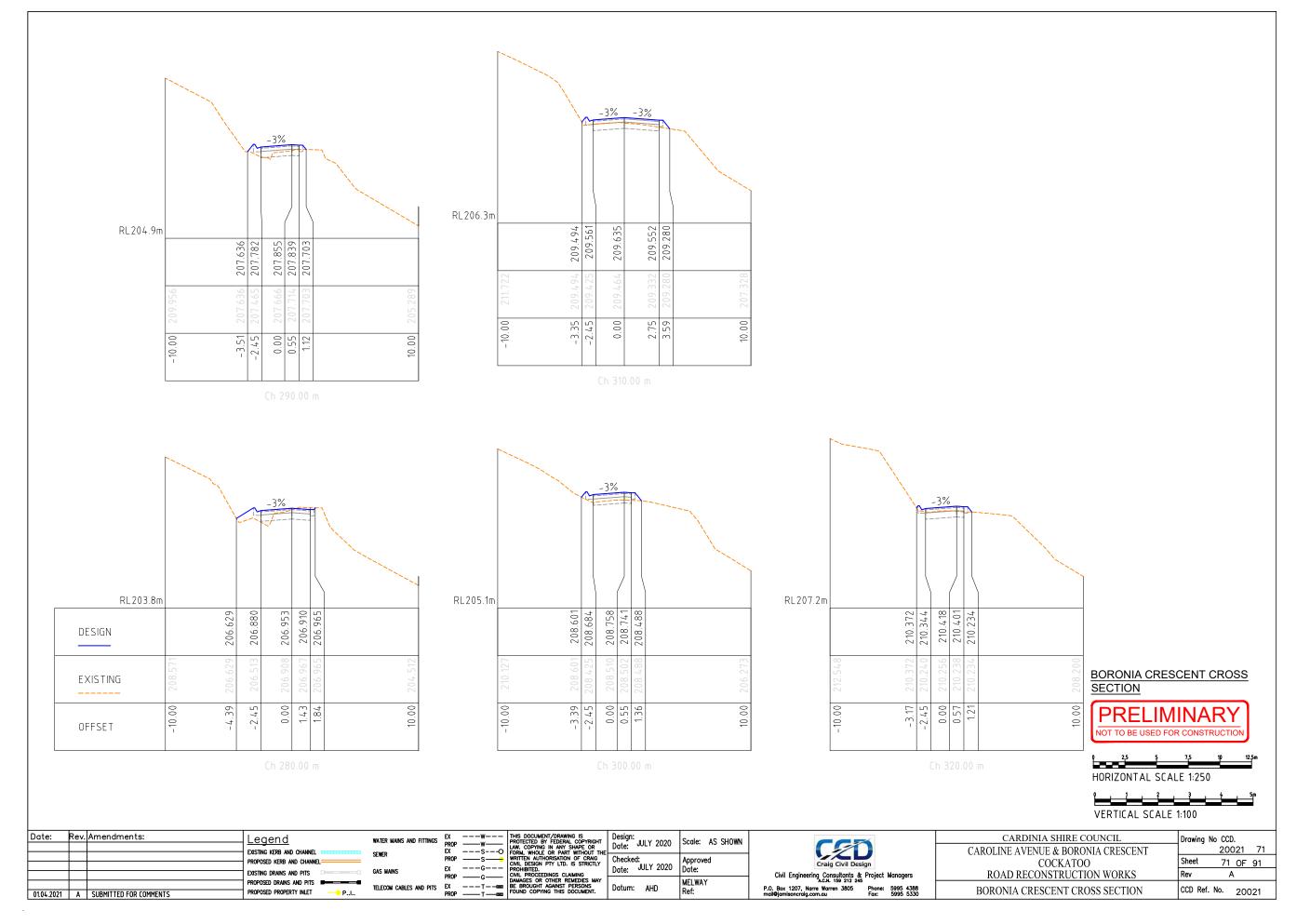




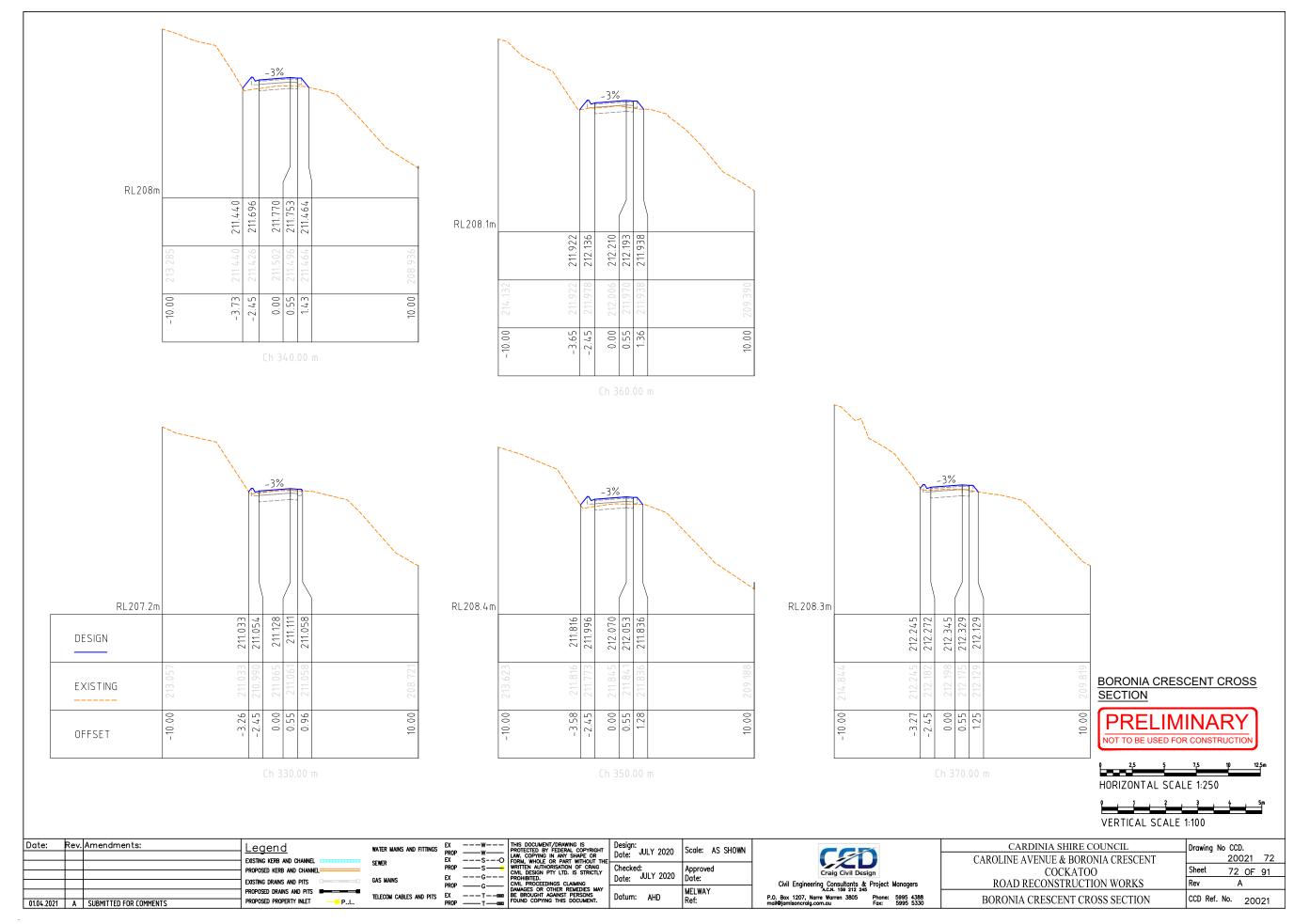
ORDINARY COUNCIL MEETING 19 JULY 2021

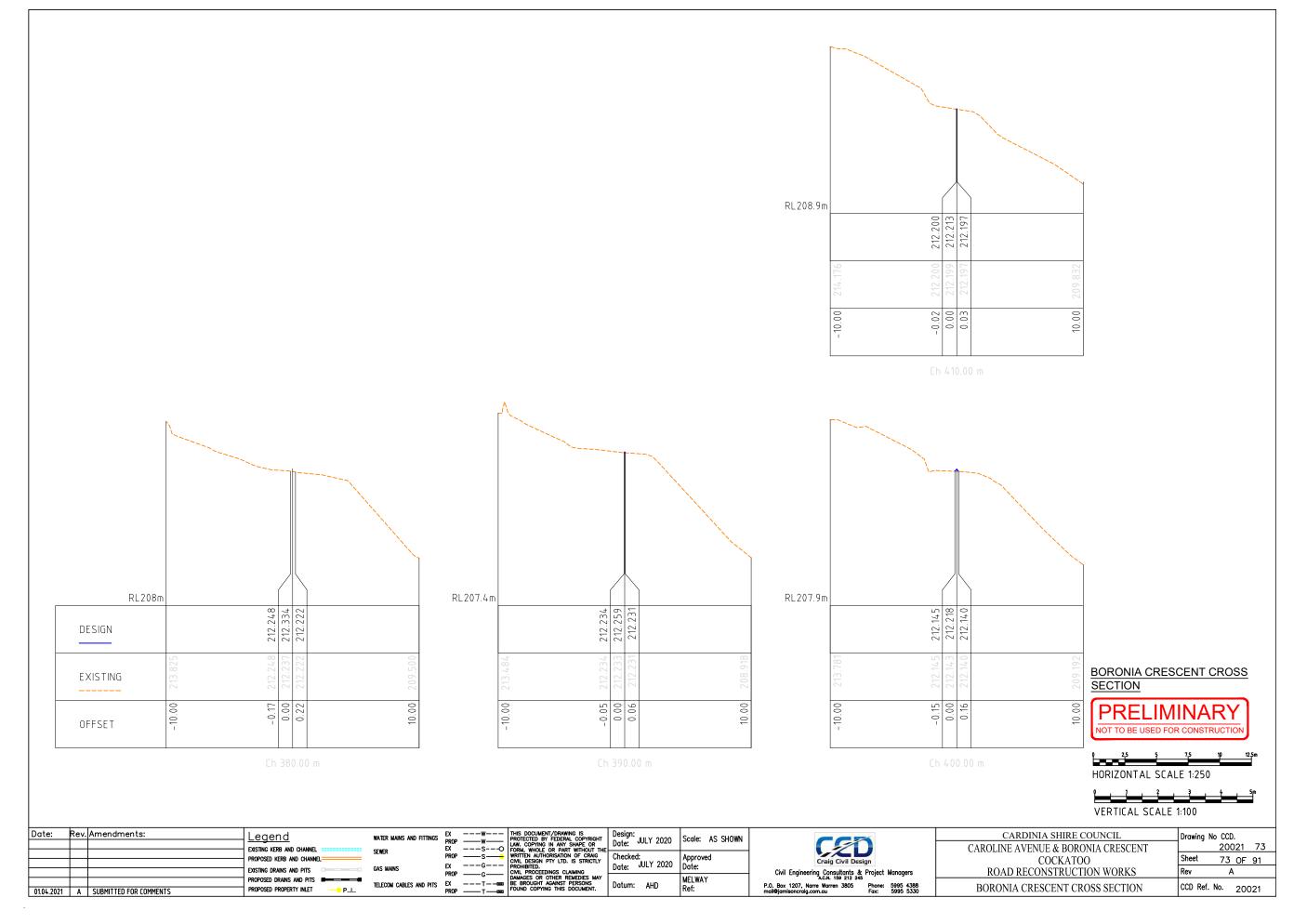


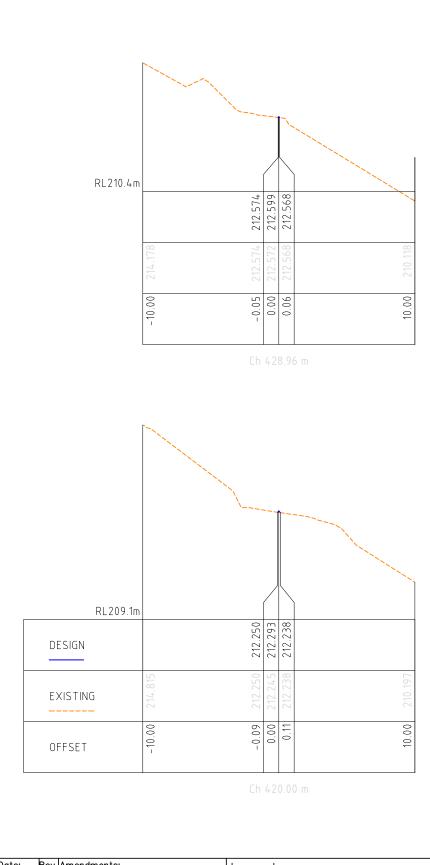




ORDINARY COUNCIL MEETING 19 JULY 2021

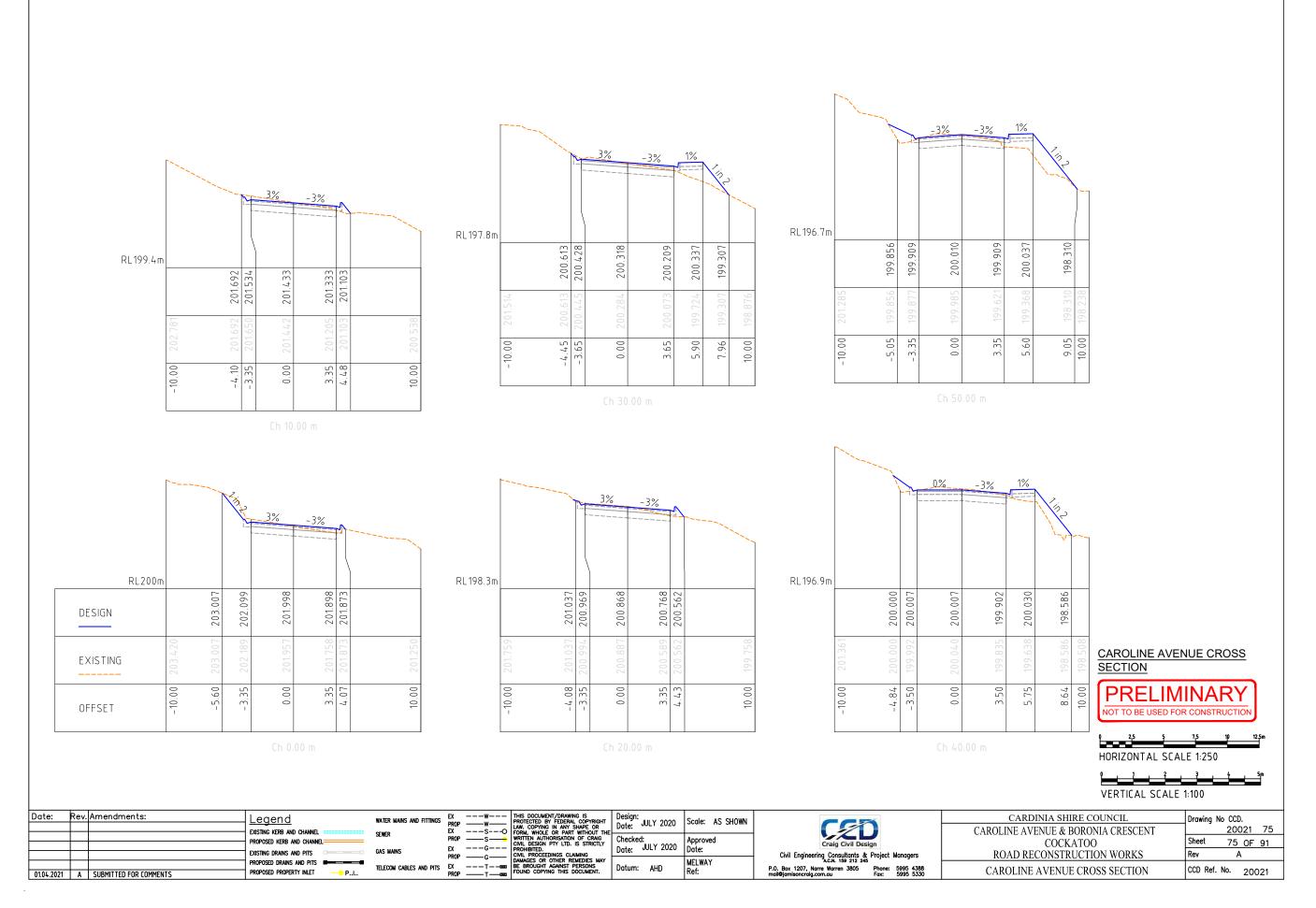


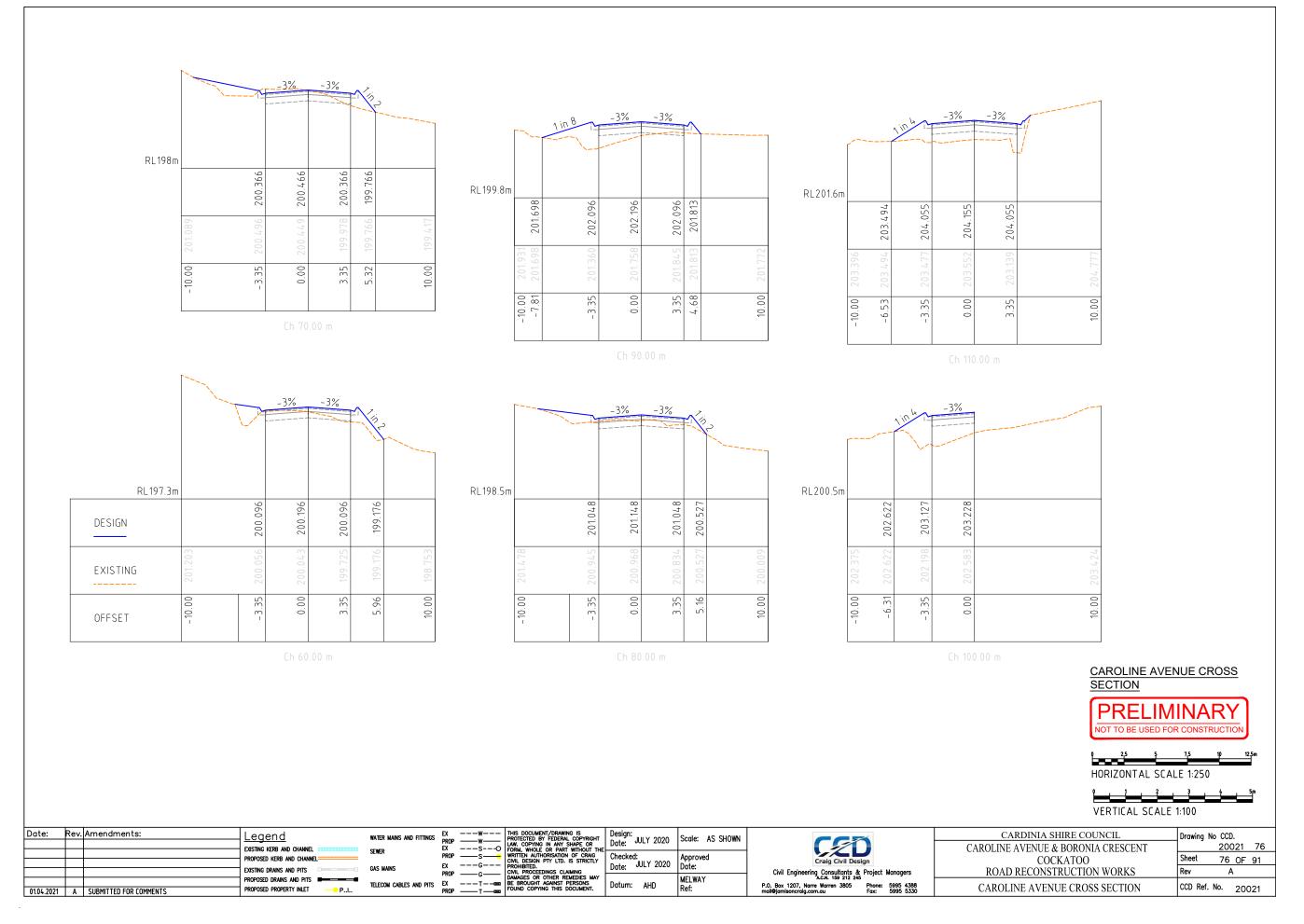


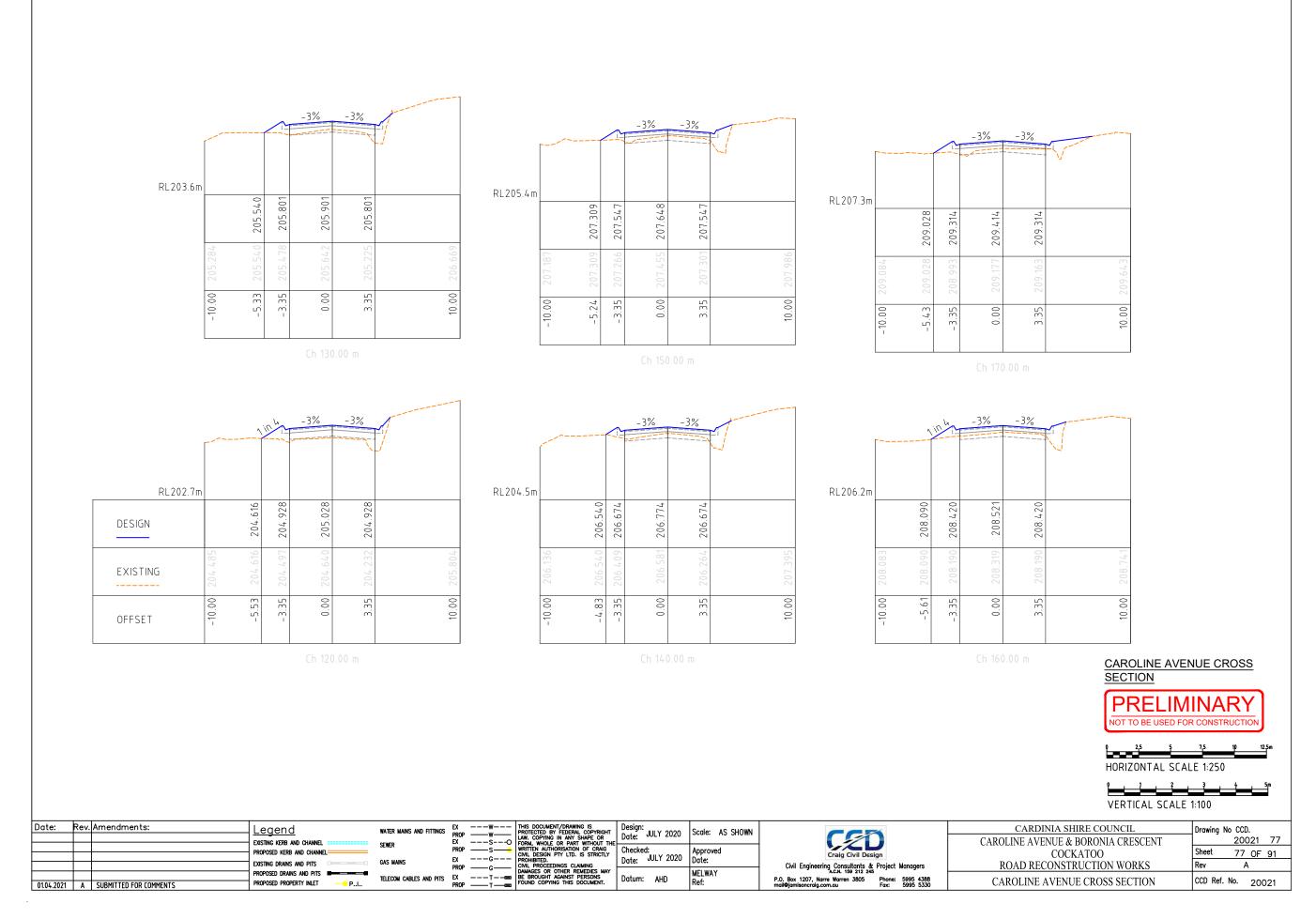


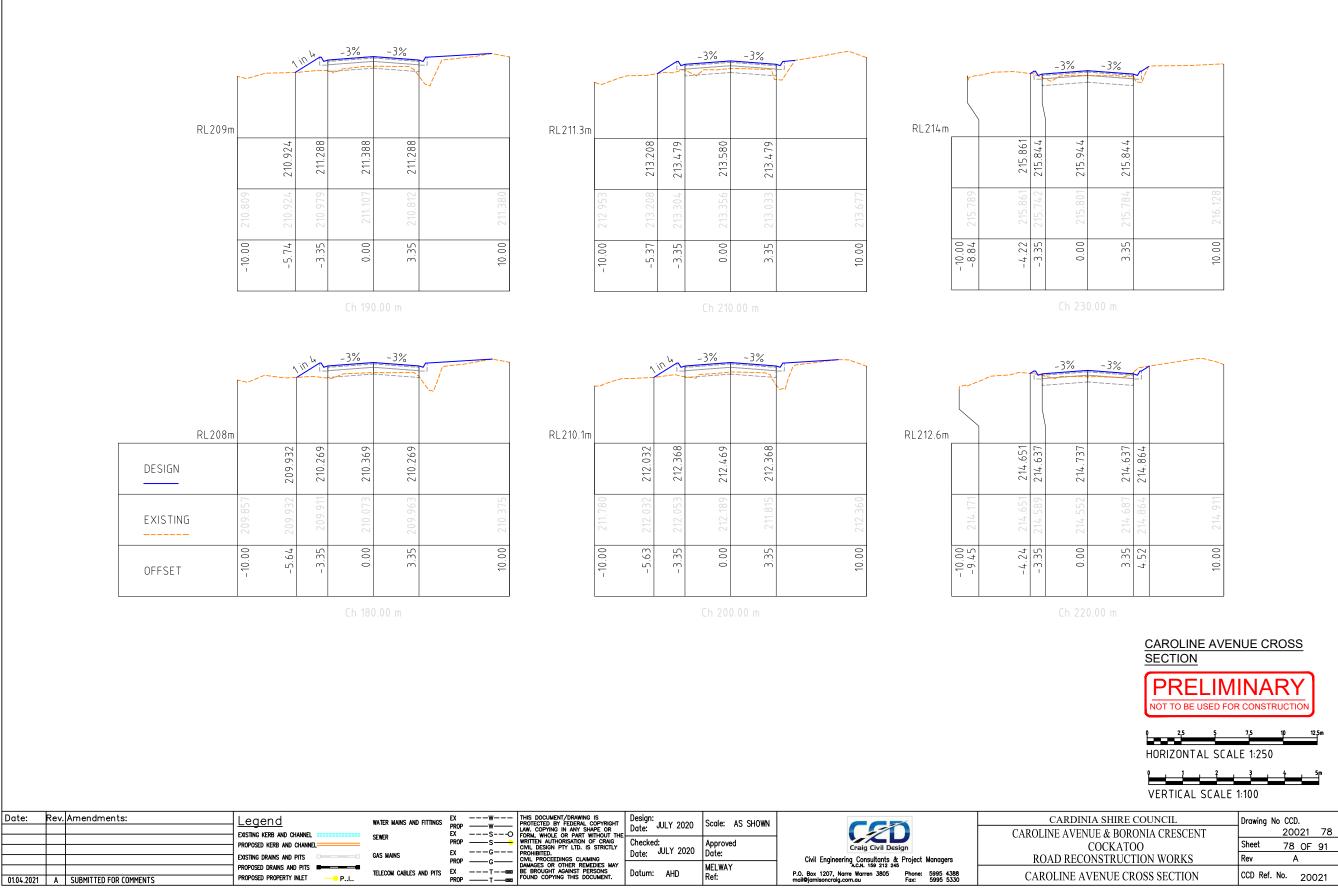
Date	e: F	Rev.	Amendments:	Legend	water mains and fittings		THIS DOCUMENT/DRAWING IS PROTECTED BY FEDERAL COPYRIGHT	Design: Date: JULY 2020	Scale: AS SHOWN		CARDINIA SI
				EXISTING KERB AND CHANNEL	SEWER	EXO	LAW. COPYING IN ANY SHAPE OR FORM, WHOLE OR PART WITHOUT THE			CED	CAROLINE AVENUE &
				PROPOSED KERB AND CHANNEL	JEWER	PROPS	WRITTEN AUTHORISATION OF CRAIG CIVIL DESIGN PTY LTD. IS STRICTLY	Checked:	Approved	Craig Civil Design	COC
				Existing drains and pits	GAS MAINS	EXG	PROHIBITED. CIVIL PROCEEDINGS CLAIMING	Date: JULY 2020	Date:	Civil Engineering Consultants & Project Managers	ROAD RECONST
				PROPOSED DRAINS AND PITS	TELECOM CABLES AND PITS	EXT	DAMAGES OR OTHER REMEDIES MAY BE BROUGHT AGAINST PERSONS	Datum: AHD	MELWAY	A.C.N. 159 212 245 P.O. Box 1207. Narre Warren 3805 Phone: 5995 4388	
01.04	.2021	Α	SUBMITTED FOR COMMENTS	PROPOSED PROPERTY INLET PI		PROPT	FOUND COPYING THIS DOCUMENT.	Dotum. AnD	Ref:	mail@jamisoncraig.com.au Fax: 5995 5330	BORONIA CRESCE

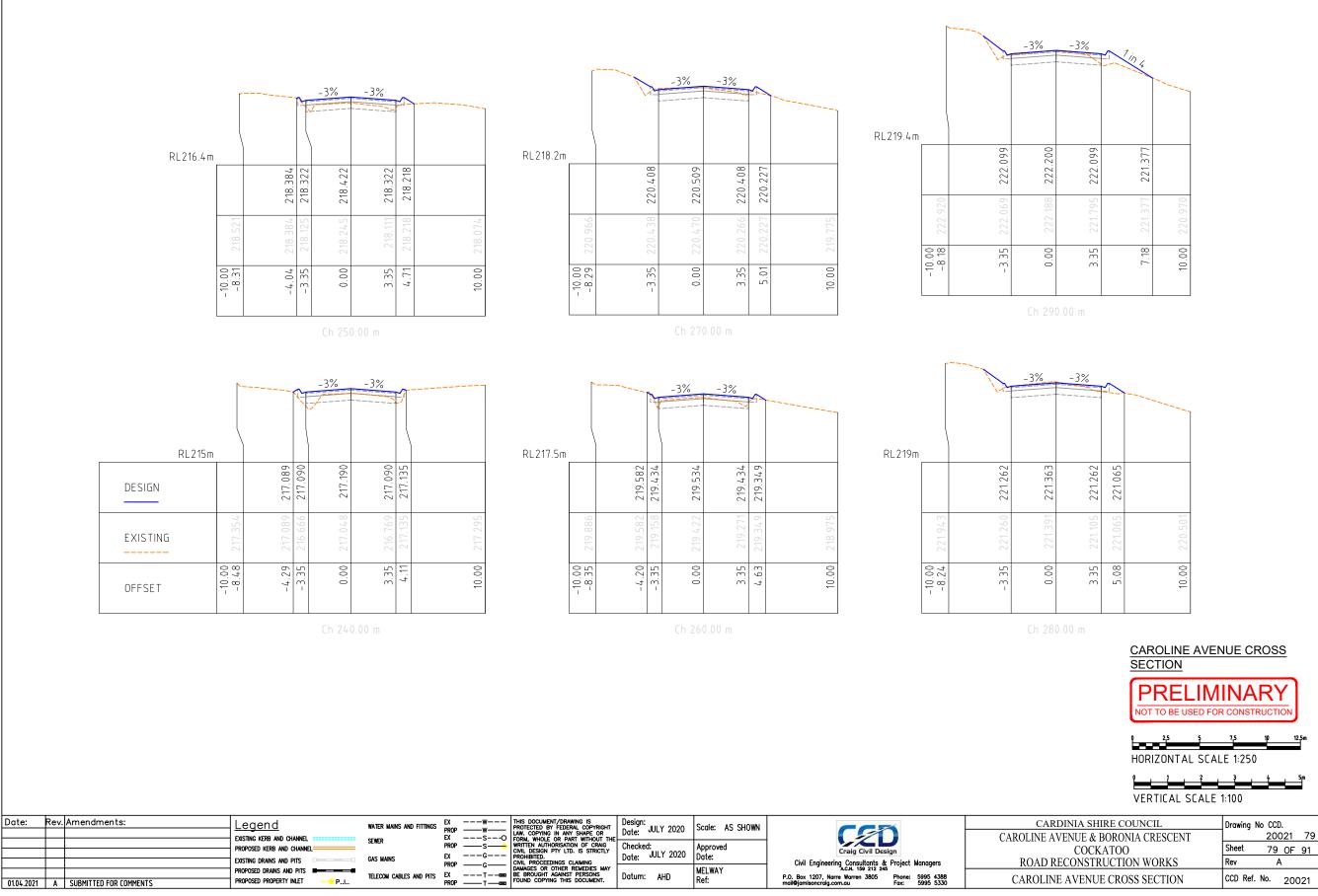
BORONIA CRES	CENT CROSS
PRELIM	
HORIZONTAL SCAL	7,5 10 12,5m E 1:250
VERTICAL SCALE	3 4 5m 1:100
DINIA SHIRE COUNCIL 'ENUE & BORONIA CRESCENT	Drawing No CCD. 20021 74
COCKATOO	Sheet 74 OF 91
ECONSTRUCTION WORKS	Rev A
CRESCENT CROSS SECTION	CCD Ref. No. 20021

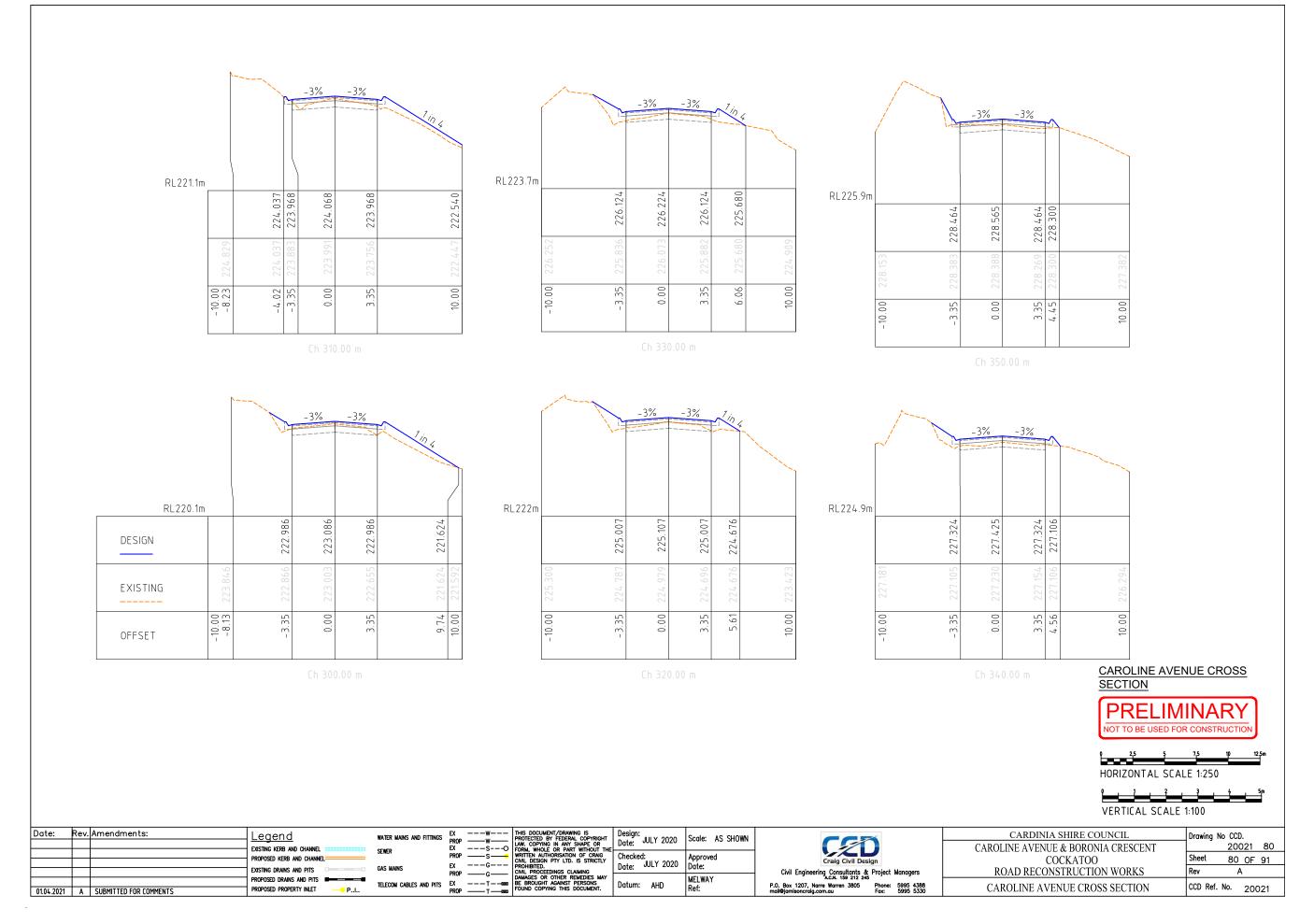




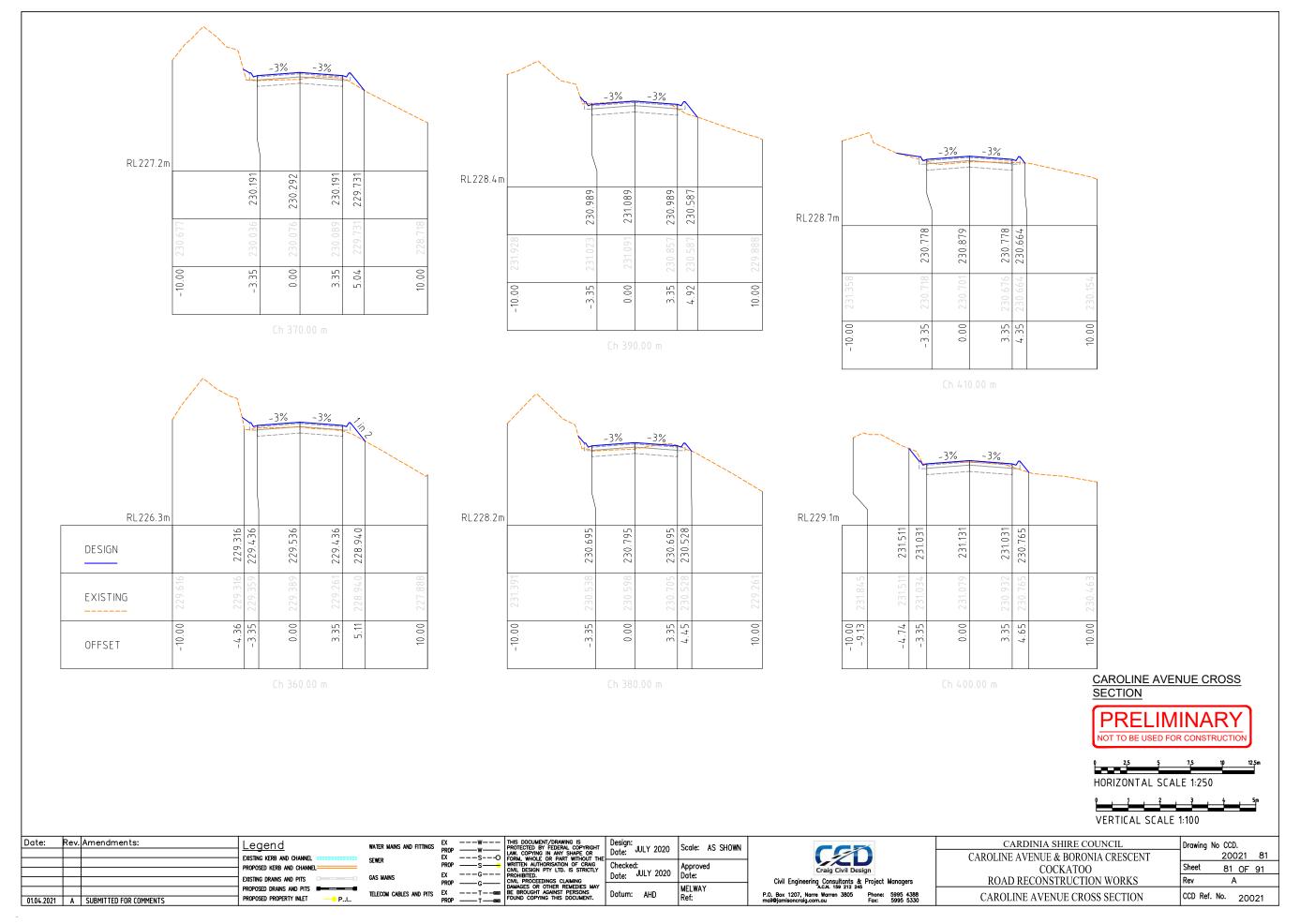


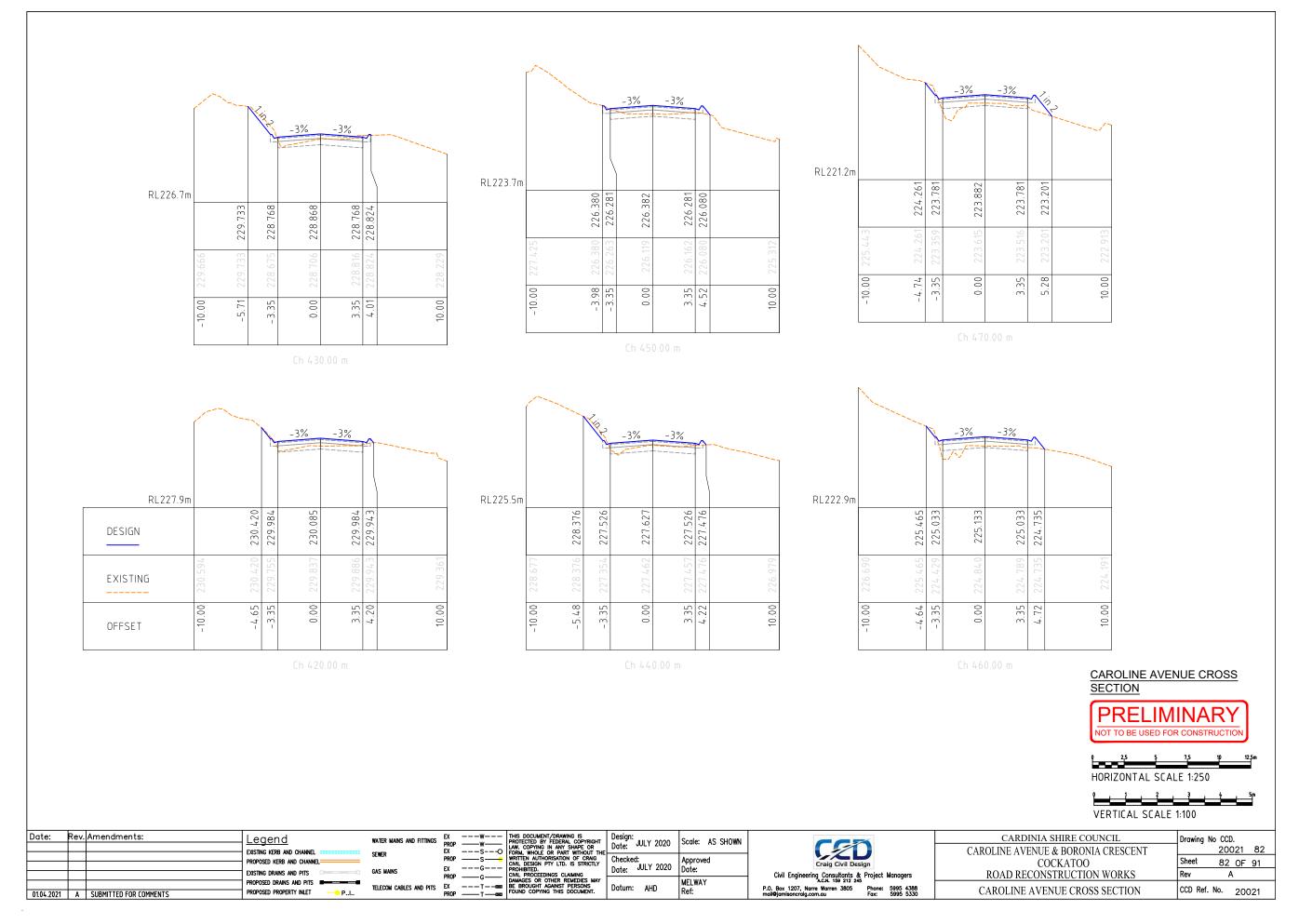




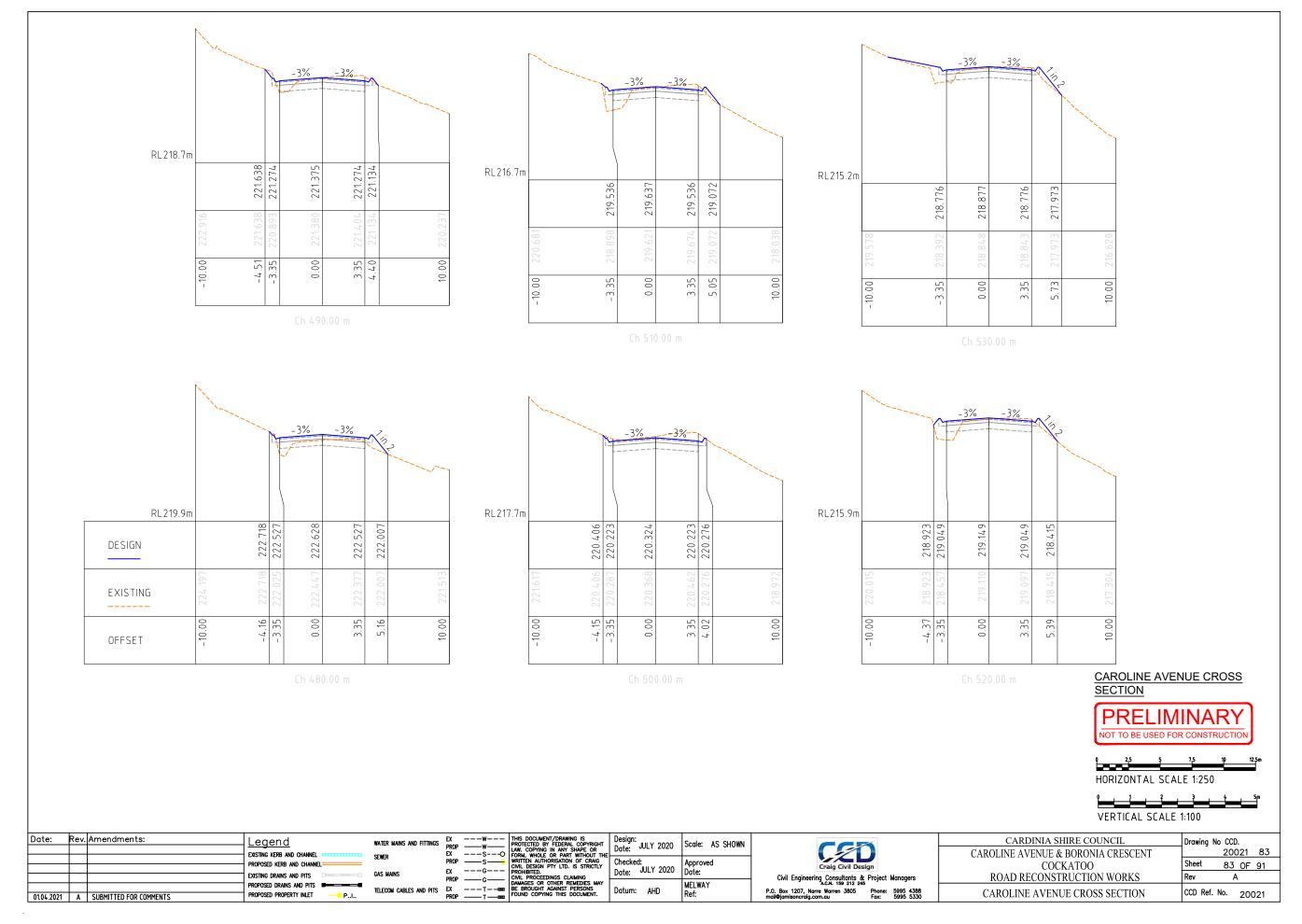


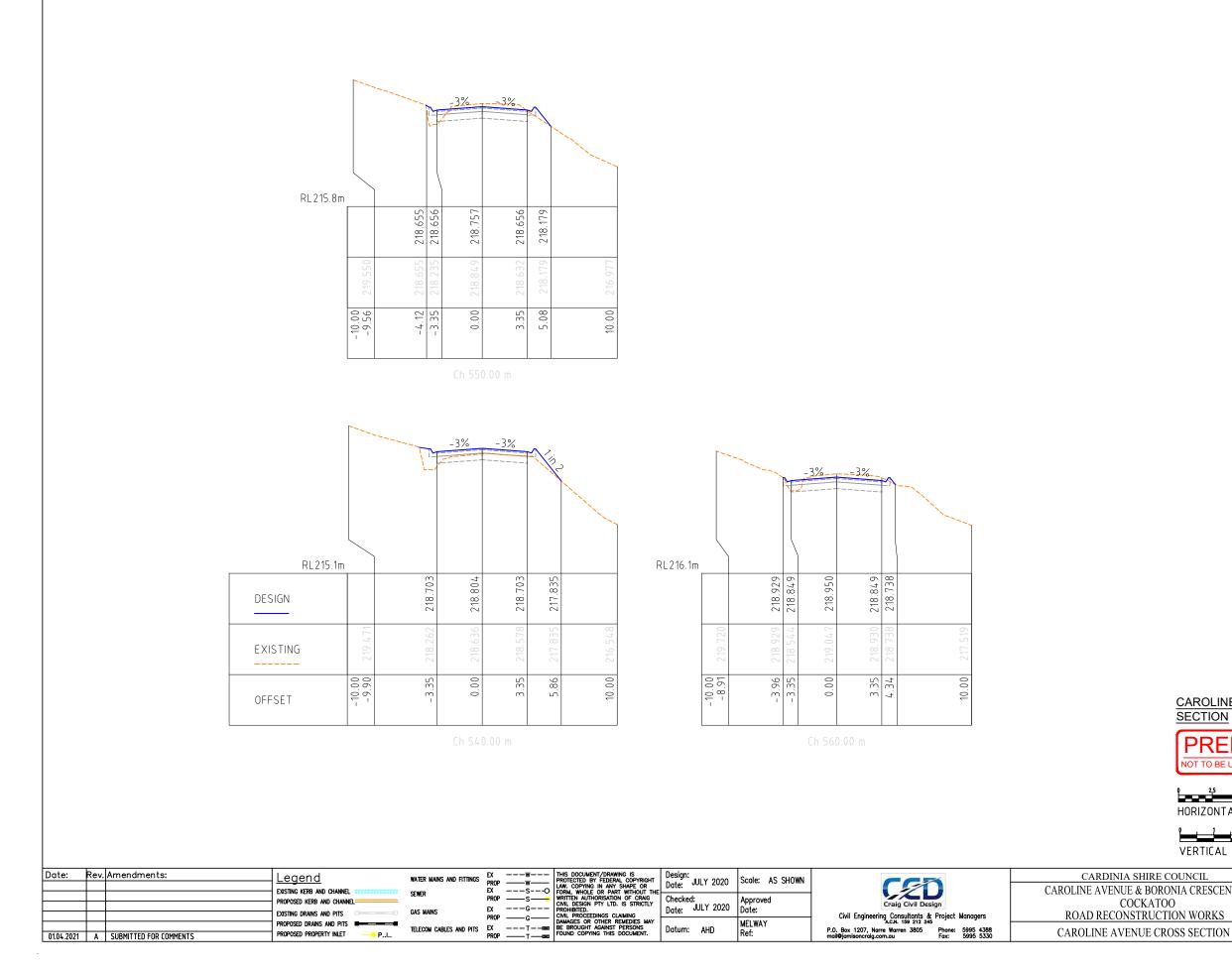
ORDINARY COUNCIL MEETING 19 JULY 2021



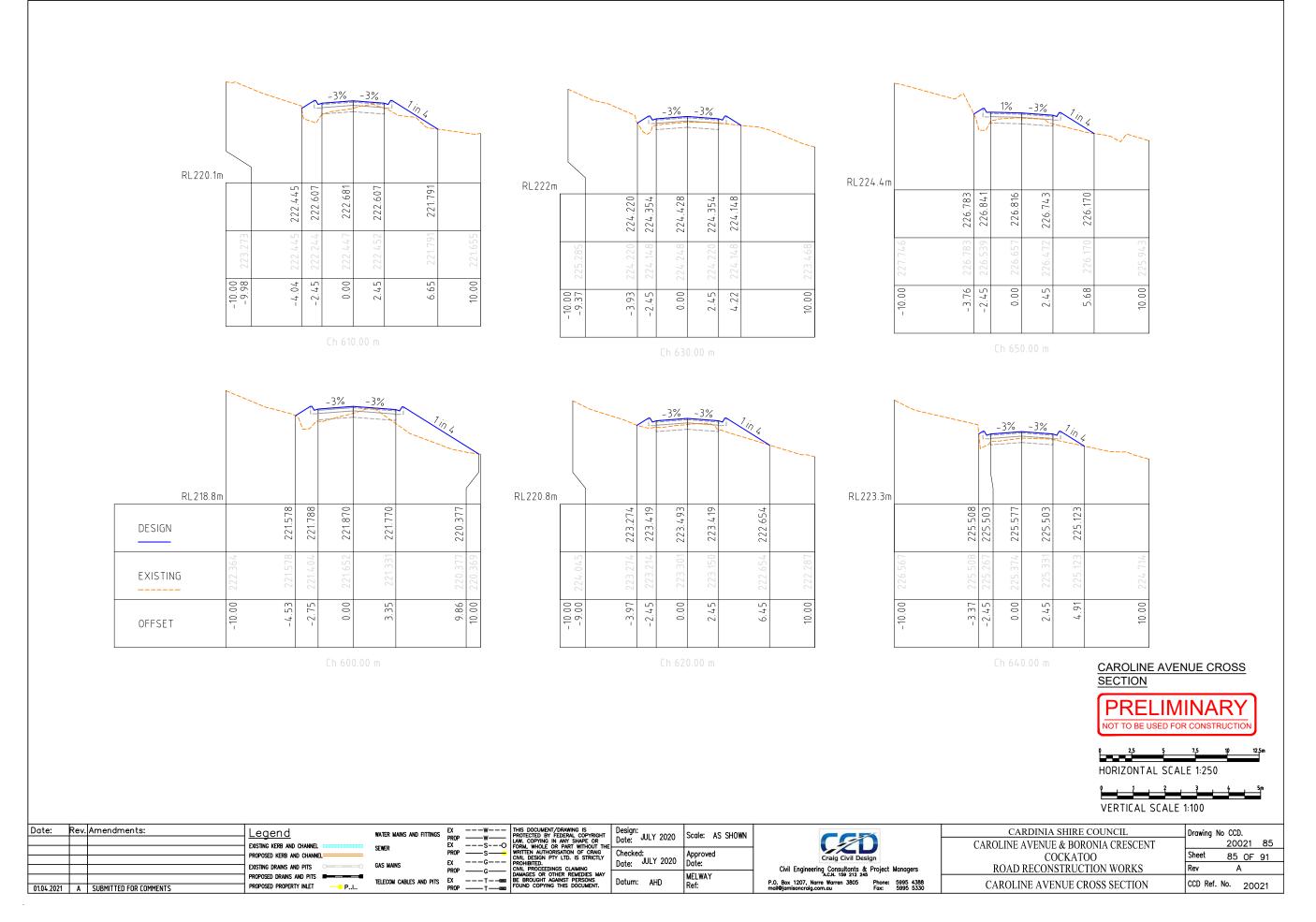


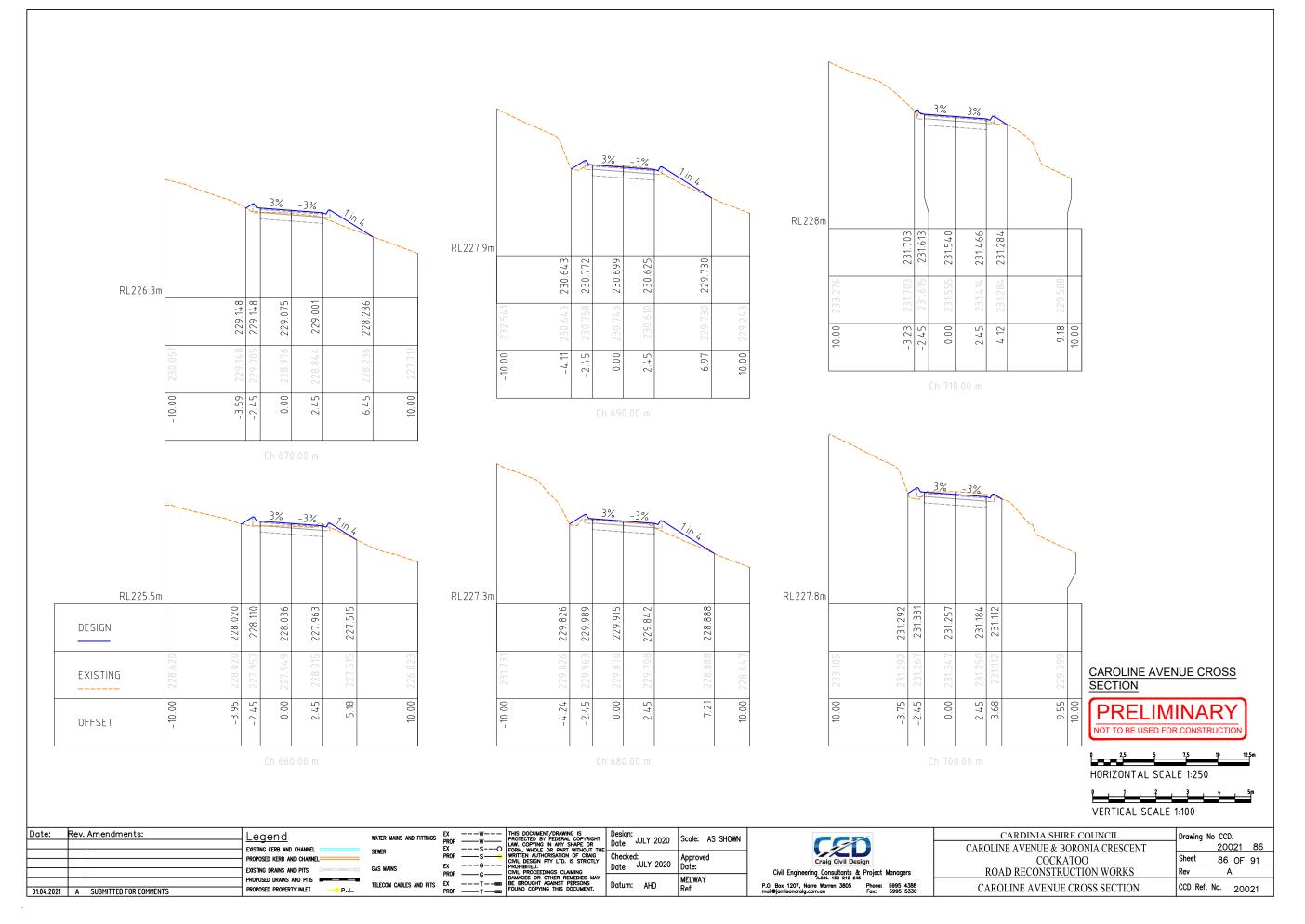
ORDINARY COUNCIL MEETING 19 JULY 2021

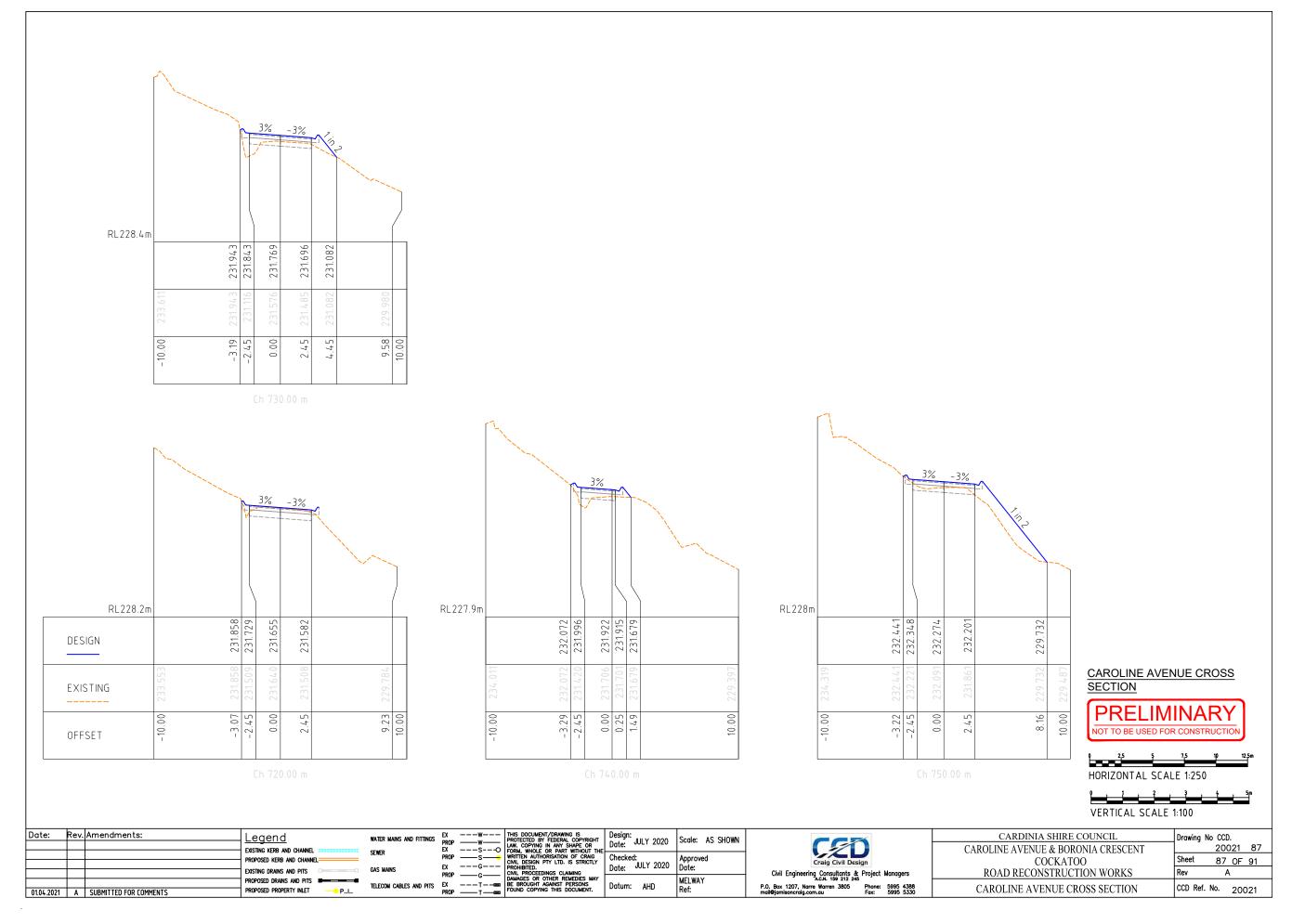


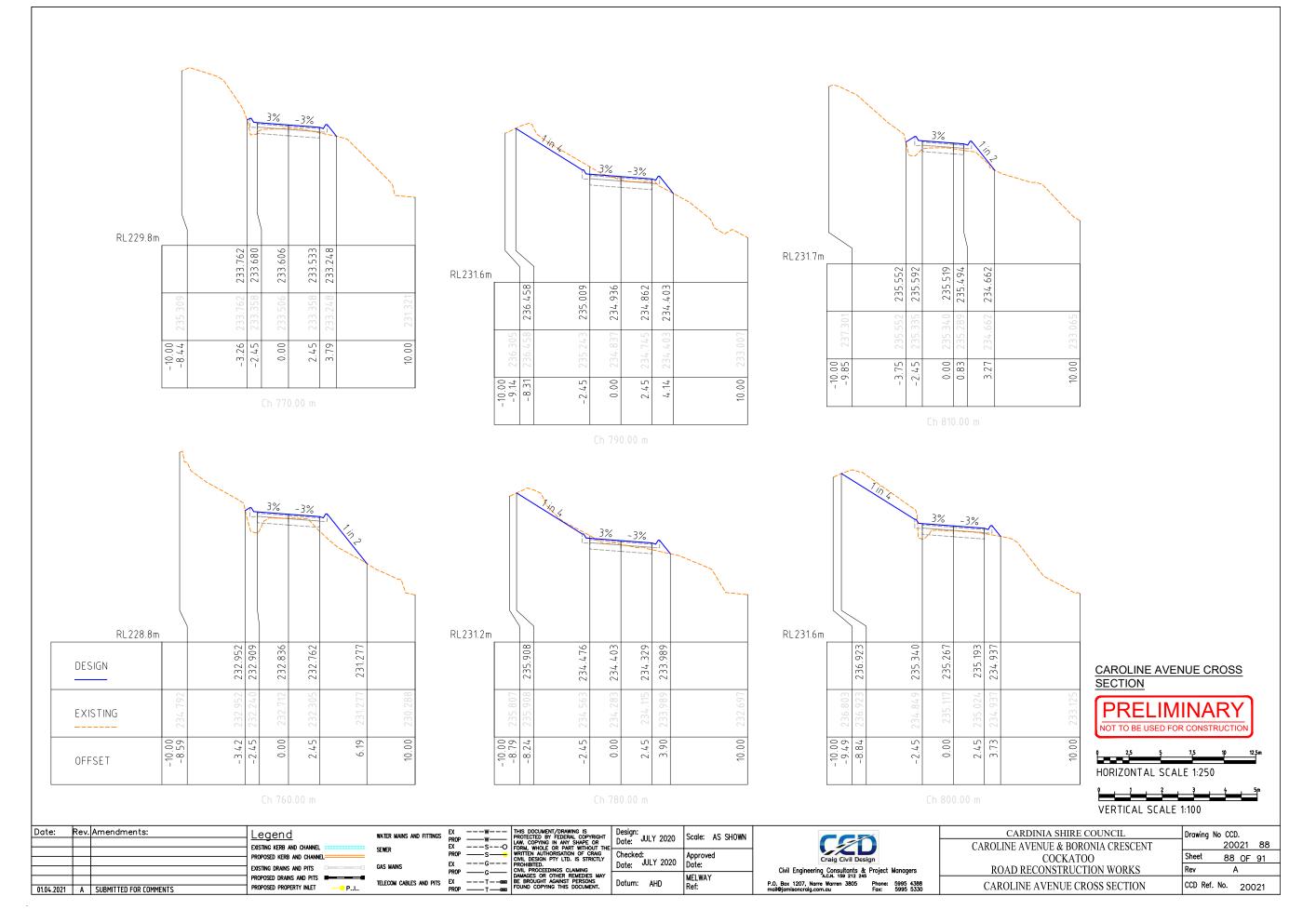


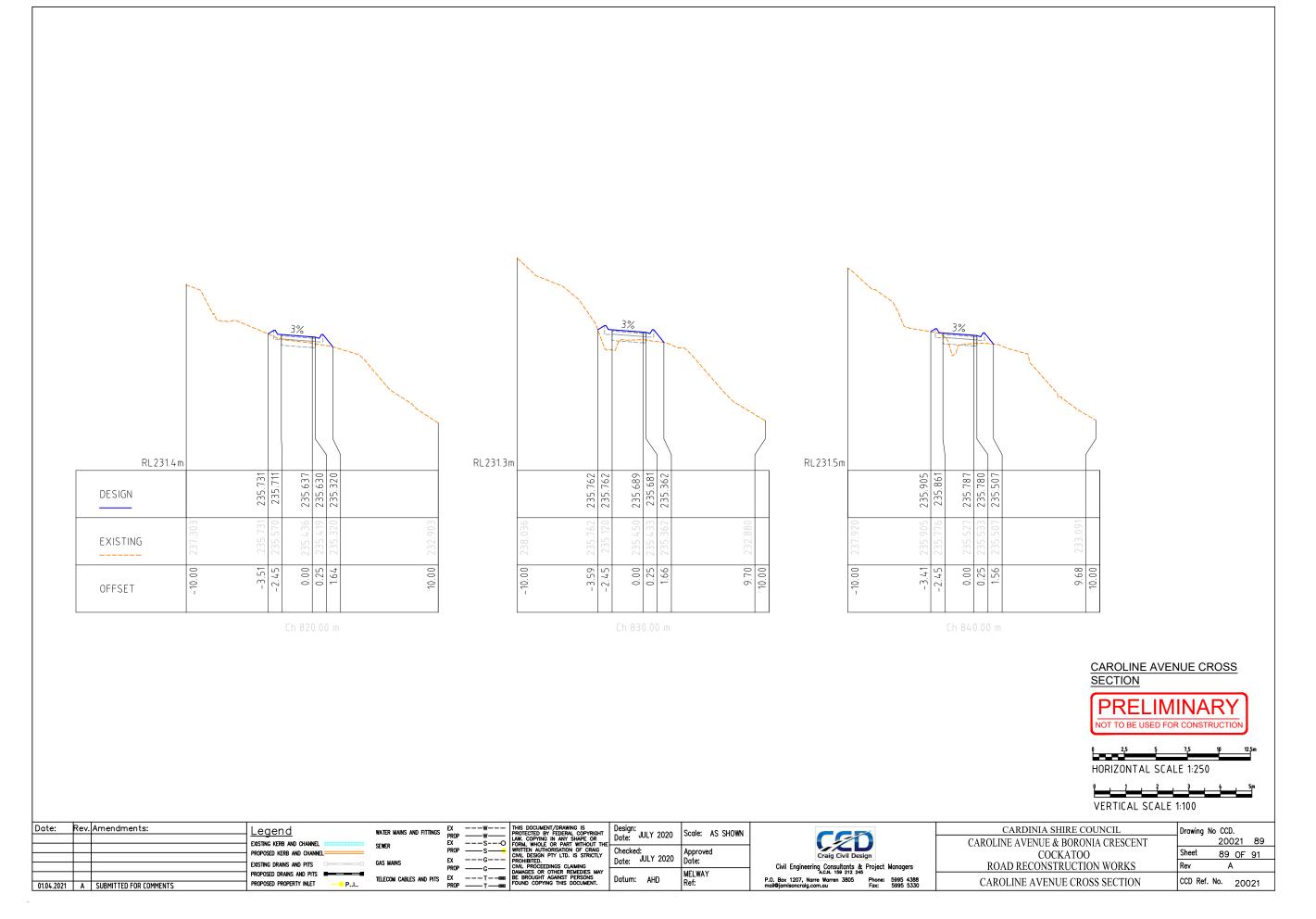
CAROLINE AVEN SECTION	NUE CROSS
PRELIM NOT TO BE USED FOR	
HORIZONTAL SCAL	7,5 10 12,5m E 1:250
VERTICAL SCALE	3 4 5m 1:100
A SHIRE COUNCIL JE & BORONIA CRESCENT	Drawing No CCD. 20021 84
COCKATOO	Sheet 84 OF 91
NSTRUCTION WORKS	Rev A
'ENUE CROSS SECTION	CCD Ref. No. 20021



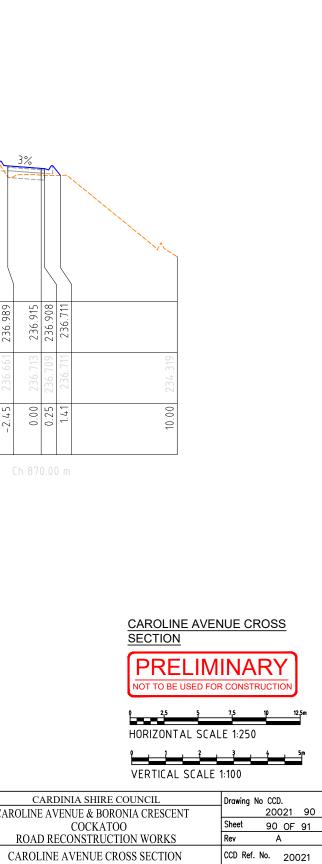


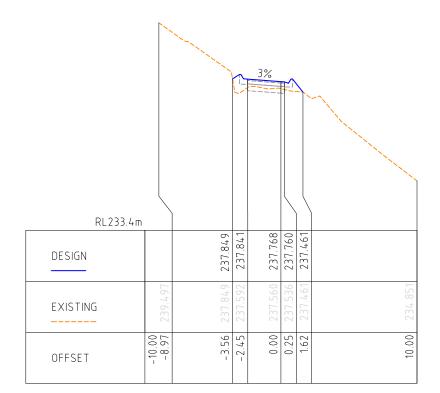


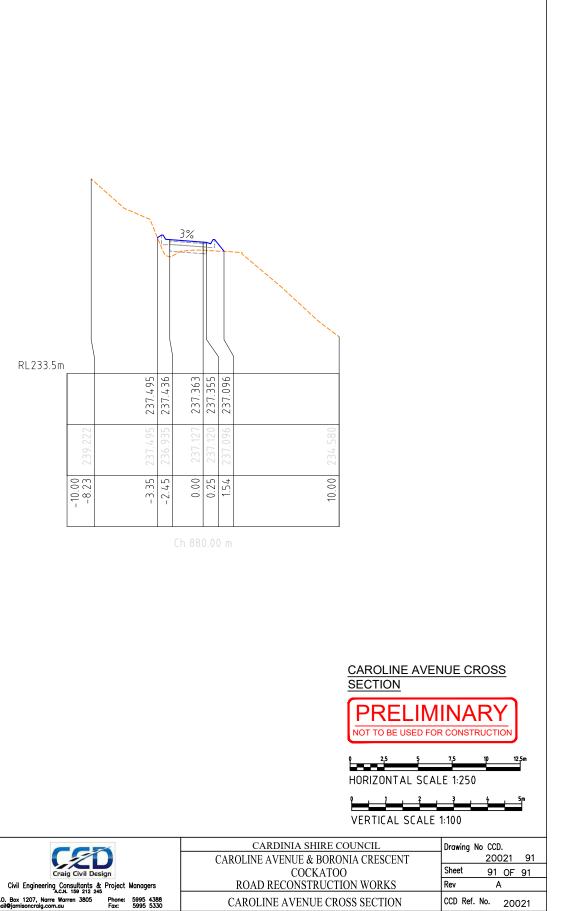




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10.00 10.00 238.589 236.105 -10.00 238.589 236.105 -2.45 236.042 236.105 -2.45 236.042 236.105 -2.45 236.042 236.105 -2.45 236.042 236.105 -2.45 236.042 236.105 -2.45 236.042 236.105 -10.00 238.713 236.499 10.00 236.273 236.495 10.00 236.273 236.436 10.00 238.713 236.436 10.00 238.713 236.436 10.00 238.713 236.436 -3.15 237.100 236.436 -3.15 237.100 236.661 -2.45 236.661 236.989	0.00 236.713 0.25 236.709 1.41 236.711
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Date:	Rev	v. Amendments:	Legend	water mains and fittings		THIS DOCUMENT/DRAWING IS PROTECTED BY FEDERAL COPYRIGHT	Design: Date: JULY 2020	Scale: AS SHOWN		CARDIN
			EXISTING KERB AND CHANNEL =======	SEWER	EXSO	LAW. COPYING IN ANY SHAPE OR FORM. WHOLE OR PART WITHOUT THE				CAROLINE AVEN
			PROPOSED KERB AND CHANNEL		PROP	WRITTEN AUTHORISATION OF CRAIG CIVIL DESIGN PTY LTD. IS STRICTLY	Checked:	Approved	Craig Civil Design	
			EXISTING DRAINS AND PITS	GAS MAINS	PROPG	CIVIL PROCEEDINGS CLAIMING DAMAGES OR OTHER REMEDIES MAY	Date: JOLT 2020	Date:	Civil Engineering Consultants & Project Managers	ROAD RECC
01.07.00			PROPOSED DRAINS AND PITS PROPOSED PROPERTY INLET	TELECOM CABLES AND PITS	EXT1980 PROPT1980	BE BROUGHT AGAINST PERSONS FOUND COPYING THIS DOCUMENT.	Datum: AHD	MELWAY Ref:	P.O. Box 1207, Narre Warren 3805 Phone: 5995 4388	CAROLINE A
01.04.202		SUBMITTED FOR COMMENTS			PRUP 22				mail@jamisoncraig.com.au Fax: 5995 5330	

Major Roads Program - Special Charge Scheme (SCS) Apportionment Sheet

Caroline Avenue, Boronia Crescent, Rouen Road Cockatoo Catchment

	Project Cost Summary:		Council Cost Sun	nmary:	Apportionment Su
	Total Project Cost (Inc. Design,				
	Supervision/Admin & Offset)	\$2,019,400	Council 30% Contribution	\$605,820	Unit Ratio
			Subsidy for costs above		
	Total Council Contribution	\$1,420,900	FedFund ceiling	\$ 815,080.00	Total Landowner Units
	Total Landowner Contribution	\$ 598,500.00	Total Council Cost	\$ 1,420,900.00	Total Council Units
Г	Financing Costs	\$52,369			\$ / Unit

FedFund Ceiling \$/ Ur

			DEVELOPMENT / BENEFIT	CHARGE FOR THE	ADJUSTED FOR			
DESCRIPTION	PROPERTY ADDRESS	ASSESSMENT NO.	UNIT	WORKS	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

nment Summary:								
Unit Ratio =	100%							
wner Units =	85.5							
uncil Units =	Nil							
\$ / Unit =	16,533							
ing \$/ Unit =	\$7,000							

		Total	85.5 \$	1,413,571.50		0 500 00	4	\$ 650,868.75	4	92,981.25
PC350371 V10106 F309	7-9 Rouen Rd	2742550400	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
L23 LP9628 V4966 F154	3 Rouen Rd	2742550200	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
L18 LP22184	68 Caroline Ave	2165652400	1 \$	16,533.00		7,000.00			_	1,087.50
L1 TP181179	66 Caroline Ave	2165652300	1 \$	16,533.00		7,000.00		. ,		1,087.50
L1 TP166553	64 Caroline Ave	2165652200	1 \$	16,533.00	-	7,000.00				1,087.50
L21 LP22184	62 Caroline Ave	2165652100	1 \$	16,533.00	-	7,000.00				1,087.50
L44 LP22184	61 Caroline Ave	2165603000	1 \$	16,533.00	· ·	7,000.00		. ,	-	1,087.50
L1 TP107620	60 Caroline Ave	2165652000	1 \$	16,533.00		7,000.00			-	1,087.50
L43 LP22184 V8612 F291	59 Caroline Ave	2165602900	1 \$	16,533.00		· ·	\$ 612.50			1,087.50
L23 LP22184	58 Caroline Ave	2165651900	1 \$	16,533.00		-	\$ 612.50	\$ 7,612.50	-	1,087.50
L42 LP22184	57 Caroline Ave	2165602800	1 \$	16,533.00		-	\$ 612.50			1,087.50
L24 LP22184 V8612 F292	56 Caroline Ave	2165651800	1\$	16,533.00	-	,	\$ 612.50			1,087.50
L41 LP22184 V8500 F176	55 Caroline Ave	2165602700	1 \$	16,533.00	-	-	\$ 612.50			1,087.50
L1 TP134289 V9528 F624	54 Caroline Ave	2165651700	1 \$	16,533.00		-	\$ 612.50			1,087.50
L40 LP22184	53 Caroline Ave	2165602600	1 \$	16,533.00			\$ 612.50	. ,		1,087.50
L26 LP22184 V8421 F427	52 Caroline Ave	2165651600	1 \$	16,533.00		-	\$ 612.50	\$ 7,612.50		1,087.50
L39 LP22184	51 Caroline Ave	2165602500	1 \$	16,533.00			\$ 612.50		-	1,087.50
L27 LP22184 V8808 F382	50 Caroline Ave	2165651500	1 \$	16,533.00		-	\$ 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
L28 LP22184 V8117 F830	48 Caroline Ave	2165651400	1\$	16,533.00	-	-	\$ 612.50			1,087.50
L1 TP111293 V9541 F852	47 Caroline Ave	2165602300	1 \$	16,533.00		,	\$ 612.50	\$ 7,612.50	-	1,087.50
L29 LP22184	46 Caroline Ave	2165651300	1 \$	16,533.00		,	\$ 612.50	\$ 7,612.50		1,087.50
L36 LP22184 V8142 F738	45 Caroline Ave	2165602200	1 \$	16,533.00			\$ 612.50		-	1,087.50
L30 LP22184	44 Caroline Ave	2165651200	1 \$	16,533.00	· ·	-	\$ 612.50		-	1,087.50
L35 LP22184 V8683 F861	43 Caroline Ave	2165602100	1 \$	16,533.00		-	\$ 612.50			1,087.50
L34 LP22184	41 Caroline Ave	2165602000	1 \$	16,533.00	-		\$ 612.50	. ,		1,087.50
L33 P22184	39 Caroline Ave	2165601900	1 \$	16,533.00	-	,	\$ 612.50	\$ 7,612.50		1,087.50
L1 TP165940	38 Caroline Ave	2165651100	1 \$	16,533.00		-	\$ 612.50		-	1,087.50
L90 LP9628	37 Caroline Ave	2165601800	1 \$	16,533.00		,	\$ 612.50			1,087.50
L1 TP196531 V9231 F487	36 Caroline Ave	2165651000	1 \$	16,533.00		-	\$ 612.50		-	1,087.50
L89 LP9628	35 Caroline Ave	2165601700	1 \$	16,533.00	· ·		\$ 612.50			1,087.50
L1 TP115452	34 Caroline Ave	2165650900	1 \$	16,533.00		,	\$ 612.50	\$ 7,612.50 \$ 7,612.50	-	1,087.50
L88 P9628 GEM	33 Caroline Ave	2165601600	1 \$	16,533.00		,	\$ 612.50	\$ 7,612.50 \$ 7,612.50		1,087.50
L87 LP9628	29 Caroline Ave 31 Caroline Ave	2165601400	1 \$	16,533.00		7,000.00			-	1,087.50
L85 P9628 L86 LP9628 V8844 F759		2165601300	1 \$	16,533.00	-	,	\$ 612.50			1,087.50
L85 P9628	27 Caroline Ave	2165601200	1 \$	16,533.00		,	\$ 612.50		-	1,087.50
L83 LP9628 V7179 F731	23 Caroline Ave 25 Caroline Ave	2165601200	1 \$	16,533.00 16,533.00		.,	\$ 612.50 \$ 612.50	\$ 7,612.50 \$ 7,612.50	-	1,087.50 1,087.50
L82 LP9628 L83 LP9628 V7179 F731	21 Caroline Ave	2165601000 2165601100	1 \$ 1 \$	16,533.00		/	\$ 612.50 \$ 612.50		-	1,087.50
1 TP106069 V9666 F993	19 Caroline Ave	2165600900	1 \$	16,533.00		,	\$ 612.50	\$ 7,612.50		1,087.5
1 TP166496;L1 TP188641	15 Caroline Ave	2165600800	2 \$	33,066.00	· ·	4,000.00	,	. ,	-	2,175.0

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 attribited to properties/assessments containing 2 titles.

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

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