


ROAD RECONSTRUCTION WORKS: CAROLINE AVE & BORONIA CRESCENT, COCKATOO

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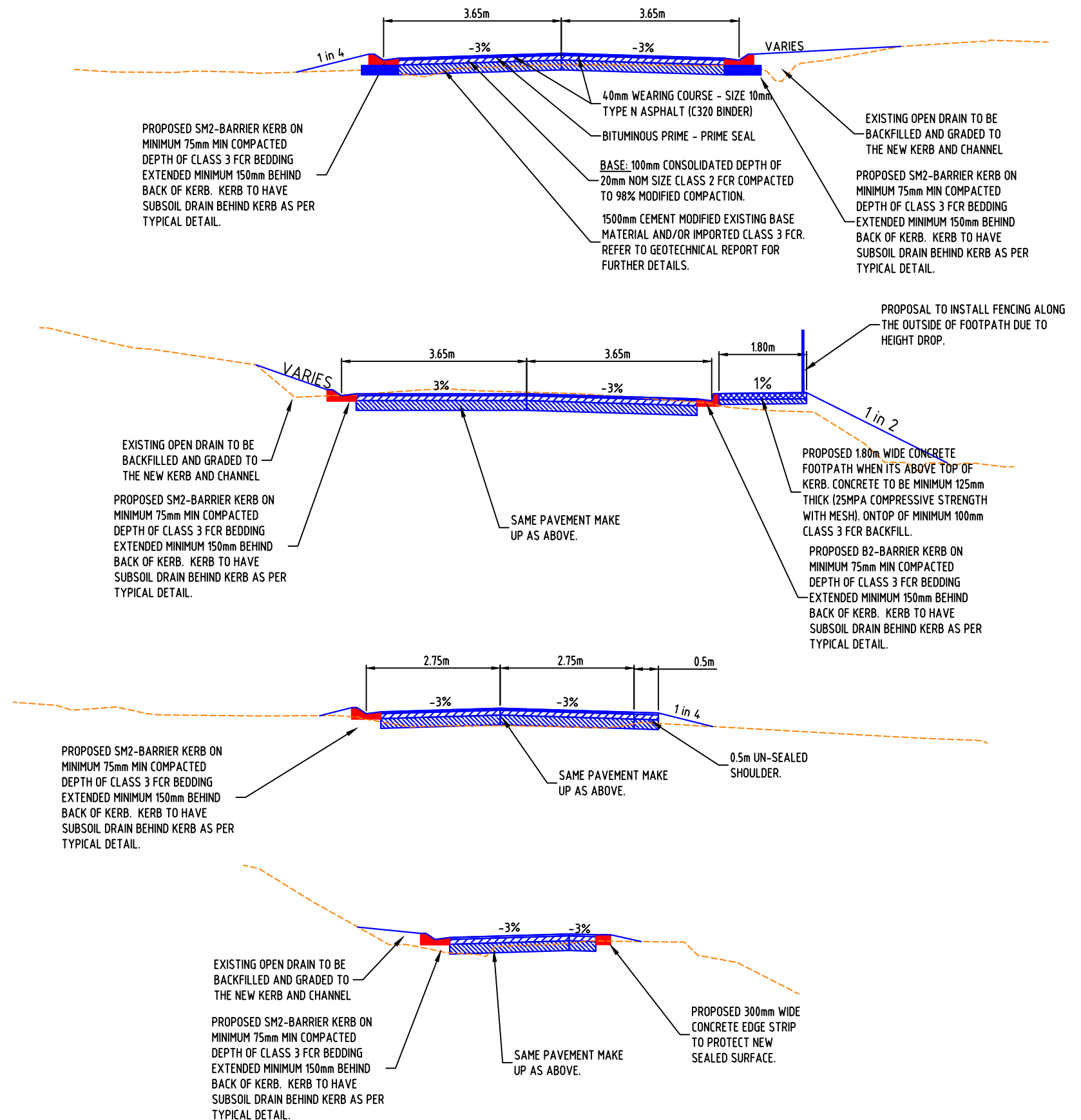
Date: Rev. Amendments:			Legend			EX --- W --- PROP --- W --- EX --- S --- PROP --- S --- EX --- G --- PROP --- G --- EX --- T --- PROP --- T ---			WATER MAINS AND FITTINGS SEWER GAS MAINS TELECOM CABLES AND FITTS			THIS DOCUMENT/DRAWING IS PROTECTED BY FEDERAL COPYRIGHT LAW. COPYING IN ANY SHAPE OR FORM, WHOLE OR PART WITHOUT THE WRITTEN AUTHORISATION OF CRAIG CIVIL DESIGN PTY LTD. IS STRICTLY PROHIBITED. CIVIL PROCEEDINGS CLAIMING DAMAGES OR OTHER REMEDIES MAY BE BROUGHT AGAINST PERSONS FOUND COPYING THIS DOCUMENT.			Design: Date: MARCH 2021		Scale: AS SHOWN		 Craig Civil Design Civil Engineering Consultants & Project Managers A.C.N. 159 212 245 P.O. Box 1207, Narre Warren 3805 mail@jamiesonacraig.com.au Phone: 5995 4388 Fax: 5995 5330			CARDINIA SHIRE COUNCIL CAROLINE AVE & BORONIA CRESCENT COCKATOO ROAD RECONSTRUCTION WORKS FACE SHEET AND LOCALITY PLAN			Drawing No CCD. 20021- 01 Sheet 1 OF 91 Rev A CCD Ref. No. 20021	
01.04.2021 A SUBMITTED FOR COMMENTS			 EXISTING KERB AND CHANNEL  PROPOSED KERB AND CHANNEL  EXISTING DRAINS AND PITS  PROPOSED DRAINS AND PITS  PROPOSED PROPERTY INLET			 EXISTING KERB AND CHANNEL  PROPOSED KERB AND CHANNEL  EXISTING DRAINS AND PITS  PROPOSED DRAINS AND PITS  PROPOSED PROPERTY INLET											Datum: AHD		MELWAY Ref:							

GENERAL NOTES:


1. ALL WORKS ARE TO BE CARRIED OUT IN ACCORDANCE WITH THE COUNCIL STANDARD DRAWINGS, SPECIFICATIONS AND TO THE SATISFACTION OF SUPERINTENDING SUPERVISING OFFICER OR HIS/HER APPOINTED REPRESENTATIVE.
2. COUNCIL TO BE NOTIFIED SEVEN (7) CLEAR DAYS PRIOR TO COMMENCEMENT OF WORKS.
3. ALL LEVELS SHOWN ARE TO A.H.D.
4. PRIOR TO COMMENCEMENT OF WORKS ON SITE, THE CONTRACTOR MUST ENSURE THAT ALL MATTERS RELATING TO THE OCCUPATIONAL HEALTH & SAFETY ACT 2004, INCLUDING ALL RELEVANT REGULATIONS, HAVE BEEN ADDRESSED. IN PARTICULAR, PREVENTION OF FALLS AND PLANT. DETAILS OF THE CONTRACTORS SITE MANAGEMENT PLAN INCLUDING OCCUPATIONAL HEALTH AND SAFETY PROCEDURES MUST BE LODGED WITH THE COUNCIL PRIOR TO COMMENCEMENT OF WORKS.
5. ON COMMENCEMENT OF CONSTRUCTION WORKS ON SITE, THE CONTRACTOR MUST COMPLY WITH THE RECOMMENDATIONS OF THE ENVIRONMENT PROTECTION AUTHORITY PUBLICATION "CONSTRUCTION TECHNIQUES FOR SEDIMENT POLLUTION CONTROL" (PUBLICATION NO 275). APPROPRIATE SILTATION CONTROL IS TO BE CARRIED OUT DURING THE CONSTRUCTION AND MAINTENANCE PERIOD.
6. NO EXCAVATION SHALL BE CARRIED OUT WITHIN THE CANOPY DRIP LINE OR 5.0M, WHICHEVER IS GREATER OF ANY EXISTING TREE UNTIL APPROVAL HAS BEEN GIVEN BY SUPERINTENDENT SUPERVISING OFFICER OR HIS/HER APPOINTED REPRESENTATIVE.
7. 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 (TPZ) CONDITION, AT ALL TIMES DURING CONSTRUCTION. UNDER NO CIRCUMSTANCES SHALL SITE SHEDS, VEHICLES, MACHINERY AND EQUIPMENT BE STORED OR PLACED WITHIN FENCED ZONE OF THESE TREES.
8. 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.
9. 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.
10. 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 FCR WITH 3% CEMENT ADDITIVE.
 - 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.
12. ALL EXCAVATIONS OF A DEPTH 1.5M OR GREATER MUST COMPLY WITH WORKCOVER VICTORIA. A "NOTICE OF INTENTION TO EXCAVATE..." FORM MUST BE SUBMITTED TO WORKCOVER 3 DAYS PRIOR TO THE WORK EXCAVATIONS.
 - CALL 1800 136 089 TOLL FREE OR 03) 9641 1444 TO OBTAIN FORM.
 - FAX FORMS TO: 03) 9565 9400 OR 9941 0555.
13. ALL CONCRETE TO BE USED IN THE CONTRACT WORKS SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 25 MPA AT 28 DAYS.
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.
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.
16. 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.
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 95% OF MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS 3798-2007: GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS. ON COMPLETION AND AT THE DIRECTION OF COUNCIL OFFICER THE CONTRACTOR SHALL PRESENT A "LEVEL 1" TYPED REPORT NOMINATING THE EXTENT OF FILL PLACED. IT'S CONFORMANCE WITH THE SPECIFICATION AND ITS CLASSIFICATION AS "CONTROLLED FILL". IF ANY SUBSTANDARD FILLING IS ENCOUNTERED ON THE SITE IT MUST BE REMOVED AND REPLACED WITH APPROVED FILL MATERIAL PROPERLY COMPACTED TO COUNCIL REQUIREMENTS. A GEO-TECHNICAL REPORT MUST BE SUBMITTED SHOWING DETAILS OF DEPTH, TYPE OF MATERIAL AND DENSITY OF THE FILL AREAS CONCERNED.
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.
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.
21. OPEN SPACE RESERVES:
 - RESERVES TO BE EVENLY GRADED, SEEDED AND FREE DRAINING TO THE SATISFACTION OF RESPONSIBLE AUTHORITY.
 - DESIGN INFORMATION TO INCLUDE RETICULATED WATER SUPPLY IN U/G PIT CONFIGURATION, BOLLARDS, SEATING, PLAYGROUND EQUIPMENT AND BBQ'S ETC. WHERE REQUIRED BY THE PERMIT.
23. 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.
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.
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 HARD COPY AND IN AUTOCAD (2010) AND ADOBE PDF FORMATS.

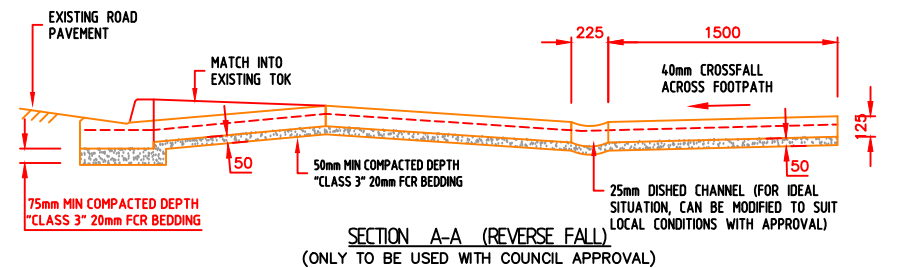
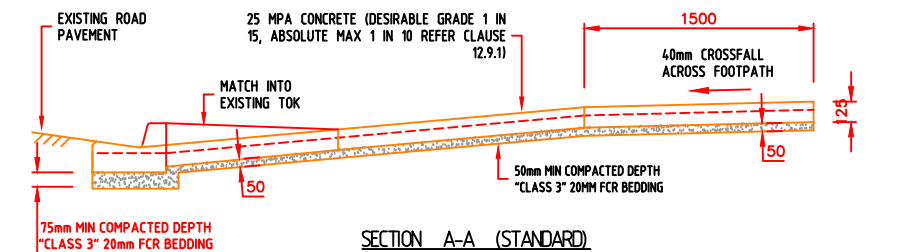
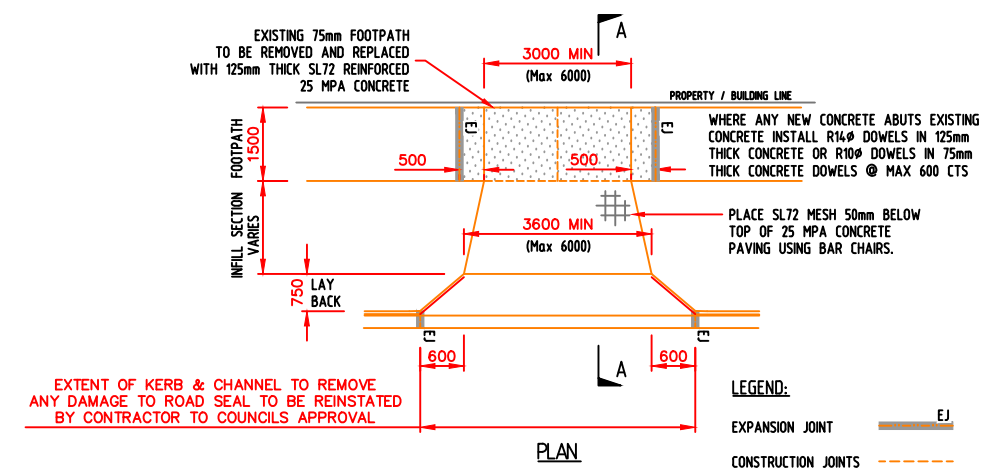
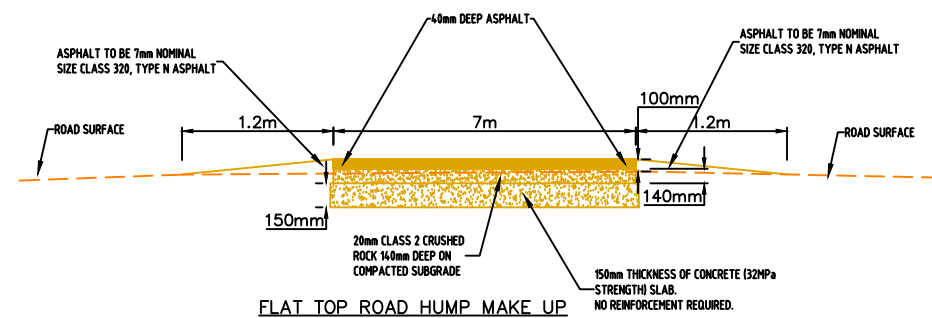
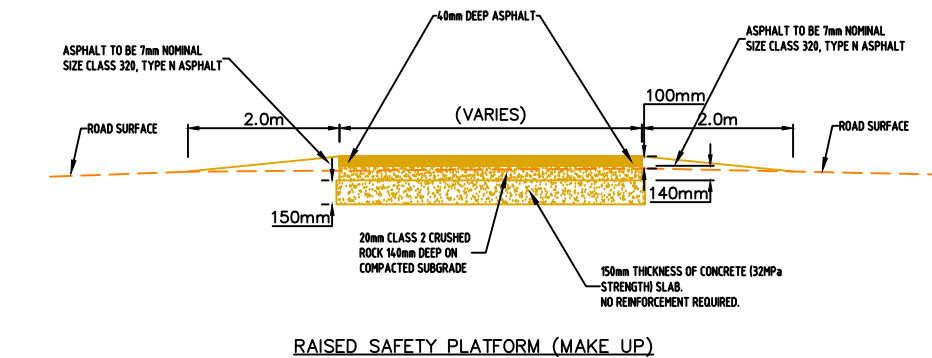
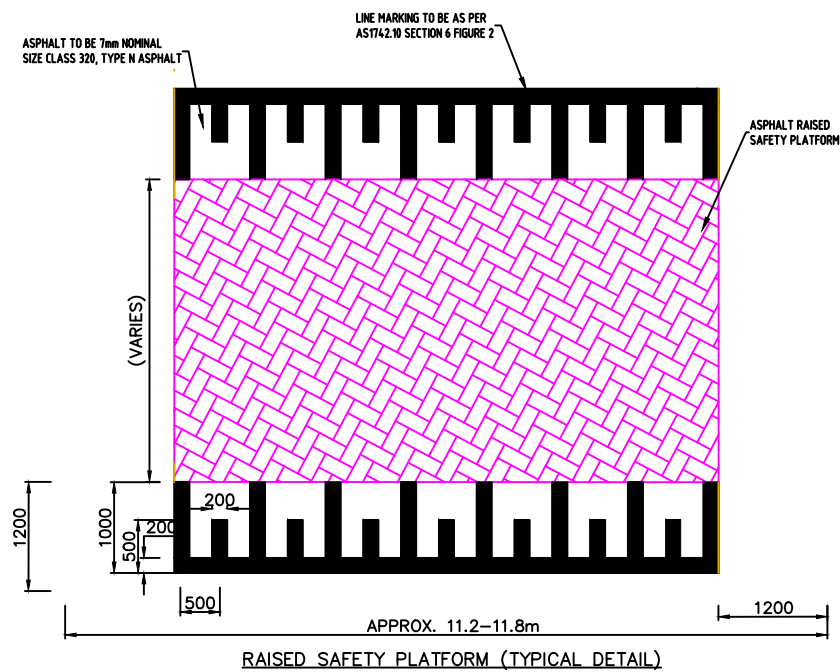
SUPERINTENDENT HOLD POINTS

25. THE FOLLOWING 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) 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 PRACTICAL COMPLETION OF THE WORKS (COMMENCEMENT OF DEFECTS LIABILITY PERIOD).
 - 8) 2ND INSPECTION AT THE END OF 12 MONTHS (END OF DEFECTS LIABILITY PERIOD).



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			EXISTING KERB AND CHANNEL	SEWER			Checked: Date:	Approved Date:	CAROLINE AVENUE & BORONIA CRESCENT		20021 02	
			PROPOSED KERB AND CHANNEL	GAS MAINS					COCKATOO		Sheet 02 OF 91	
			EXISTING DRAINS AND PITS	TELECOM CABLES AND PITS					ROAD RECONSTRUCTION WORKS		Rev A	
01.04.2021	A	SUBMITTED FOR COMMENTS	PROPOSED DRAINS AND PITS					Datum:	MELWAY Ref:		TYPICAL SECTION & RAISED PAVEMENT MAKE UP	CCD Ref. No. 20021
			PROPOSED PROPERTY INLET									

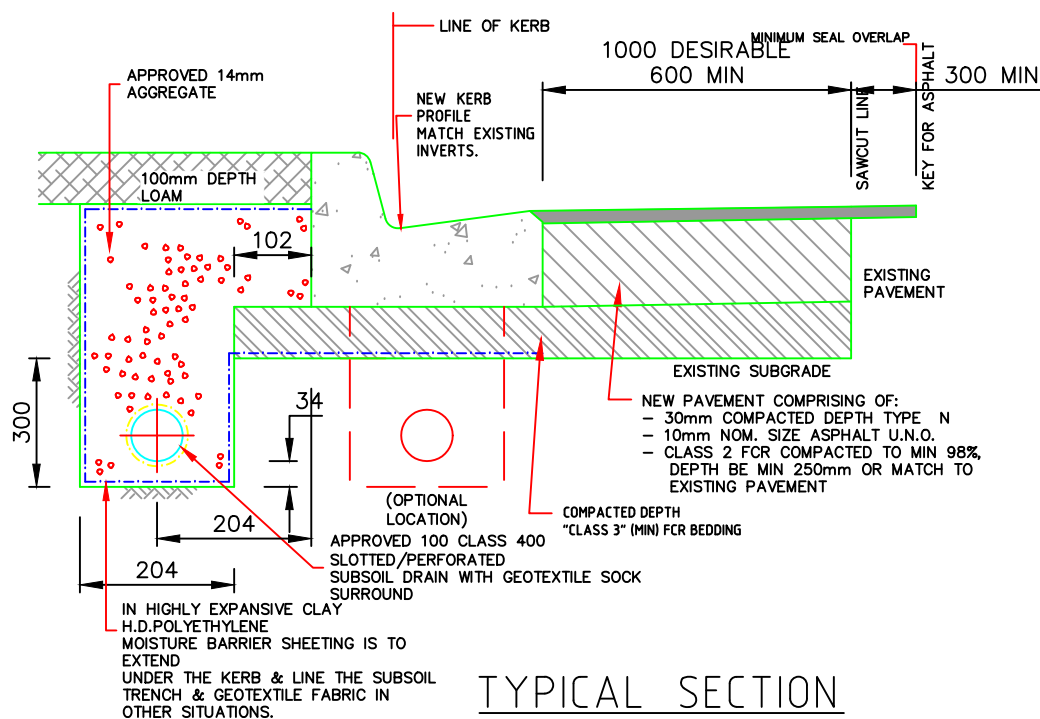


NOTE:

FOR GRADES STEEPER THAN 1 IN 15 REFER CLAUSE 12.9.1.

LAYBACK & CROSSOVER, TO BE CONSTRUCTED IN PLAIN CONCRETE ONLY (NO COLOURED CONCRETE BEYOND PROPERTY BOUNDARY)

T.O.K. DENOTES TOP OF KERB



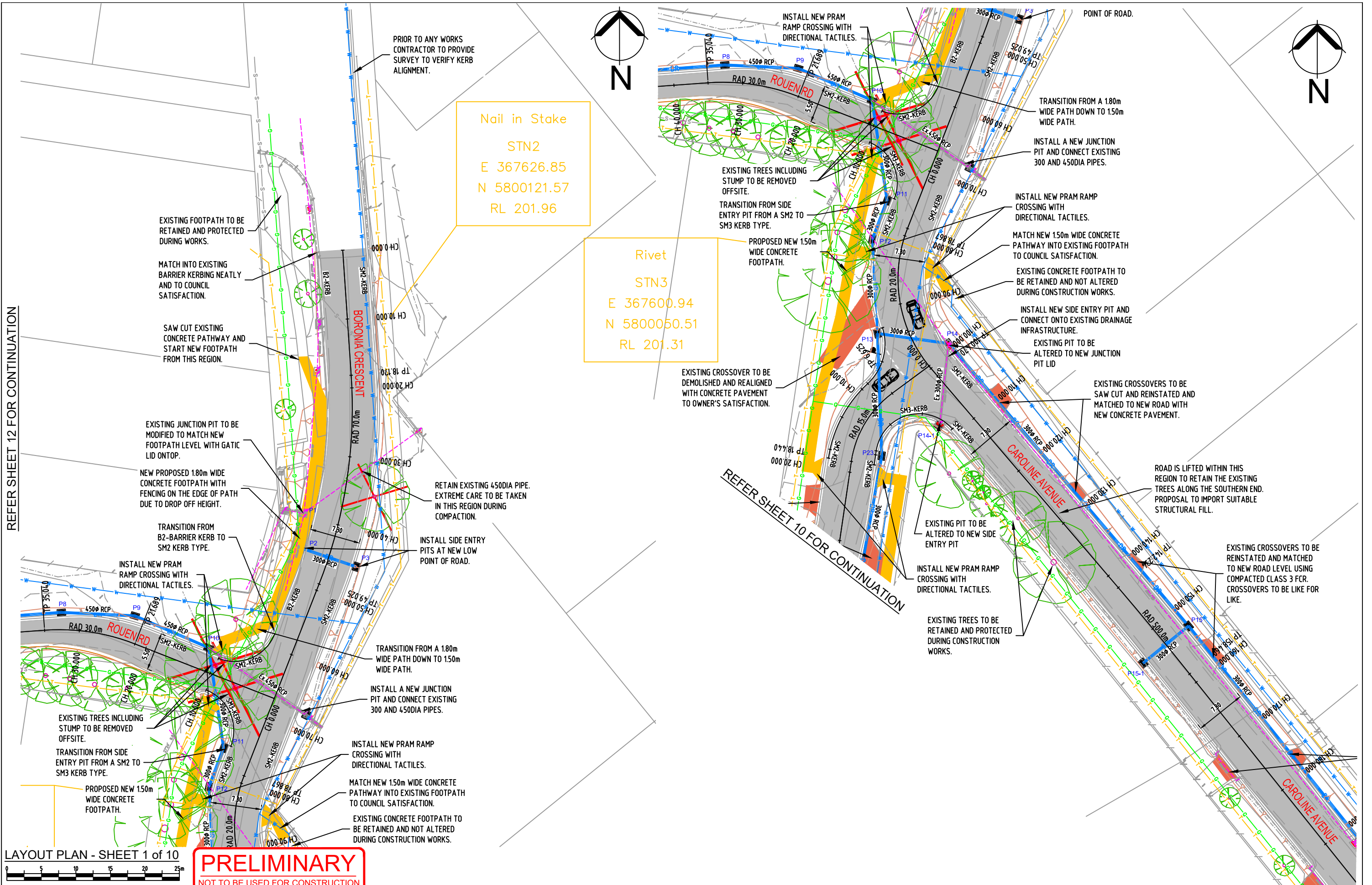
TYPICAL SECTION

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			EXISTING KERB AND CHANNEL	SEWER	EX ---W---		Date:	MARCH 2021	Approved			CAROLINE AVENUE & BORONIA CRESCENT	20021-03
			PROPOSED KERB AND CHANNEL	GAS MAINS	EX ---S---		Checked:	MARCH 2021	Date:			COCKATOO	Sheet 3 OF 91
			EXISTING DRAINS AND PITS	TELECOM CABLES AND PITS	EX ---G---		Datum:	AHD	MELWAY	212 E10		ROAD RECONSTRUCTION WORKS	Rev A
01.04.2020	A	SUBMITTED FOR COMMENTS	PROPOSED DRAINS AND PITS		EX ---T---							TYPICAL SECTION & RAISED PAVEMENT MAKE UP	CCD Ref. No. 20021

REFER SHEET 12 FOR CONTINUATION



LAYOUT PLAN - SHEET 1 of 10
SCALE 1:500

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01.04.2021	A	SUBMITTED FOR COMMENTS

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

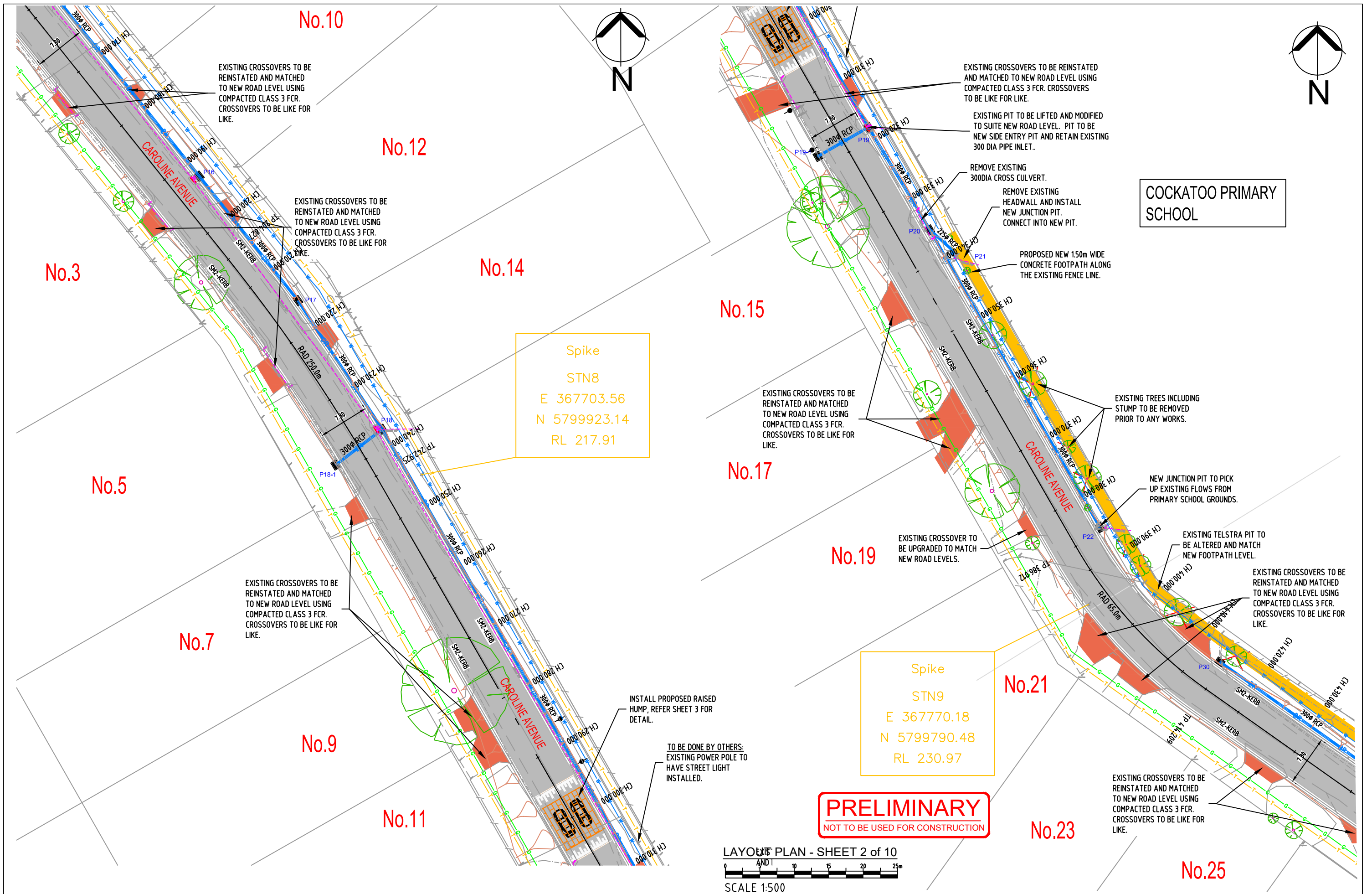
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SEWER	EX	---	S	---
GAS MAINS	EX	---	G	---
TELECOM CABLES AND PITS	EX	---	T	---

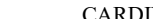
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CCD
Craig Civil Design
Civil Engineering Consultants & Project Managers
P.O. Box 1207, Narre Warren 3805
Phone: 5995 4388
Fax: 5995 5330
mail@jamisoncraig.com.au

CARDINIA SHIRE COUNCIL	Drawing No CCD.
CAROLINE AVENUE & BORONIA CRESCENT	20021 04
COCKATOO	Sheet
ROAD RECONSTRUCTION WORKS	4 OF 91
LAYOUT PLAN - CAROLINE AVENUE	Rev
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			PROPOSED DRAINS AND PITS		PROP --- G ---	PROP --- G ---			Date:			Rev		
			PROPOSED PROPERTY INLET	TELECOM CABLES AND PITS	EX --- T ---	EX --- T ---		Datum:	MELWAY		LAYOUT PLAN - CAROLINE AVENUE		CCD Ref. No.	
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01.04.2021	A	SUBMITTED FOR COMMENTS												



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LAYOUT PLAN - SHEET 3 of 10
SCALE 1:500

Date:	Rev.	Amendments:
01.04.2021	A	SUBMITTED FOR COMMENTS

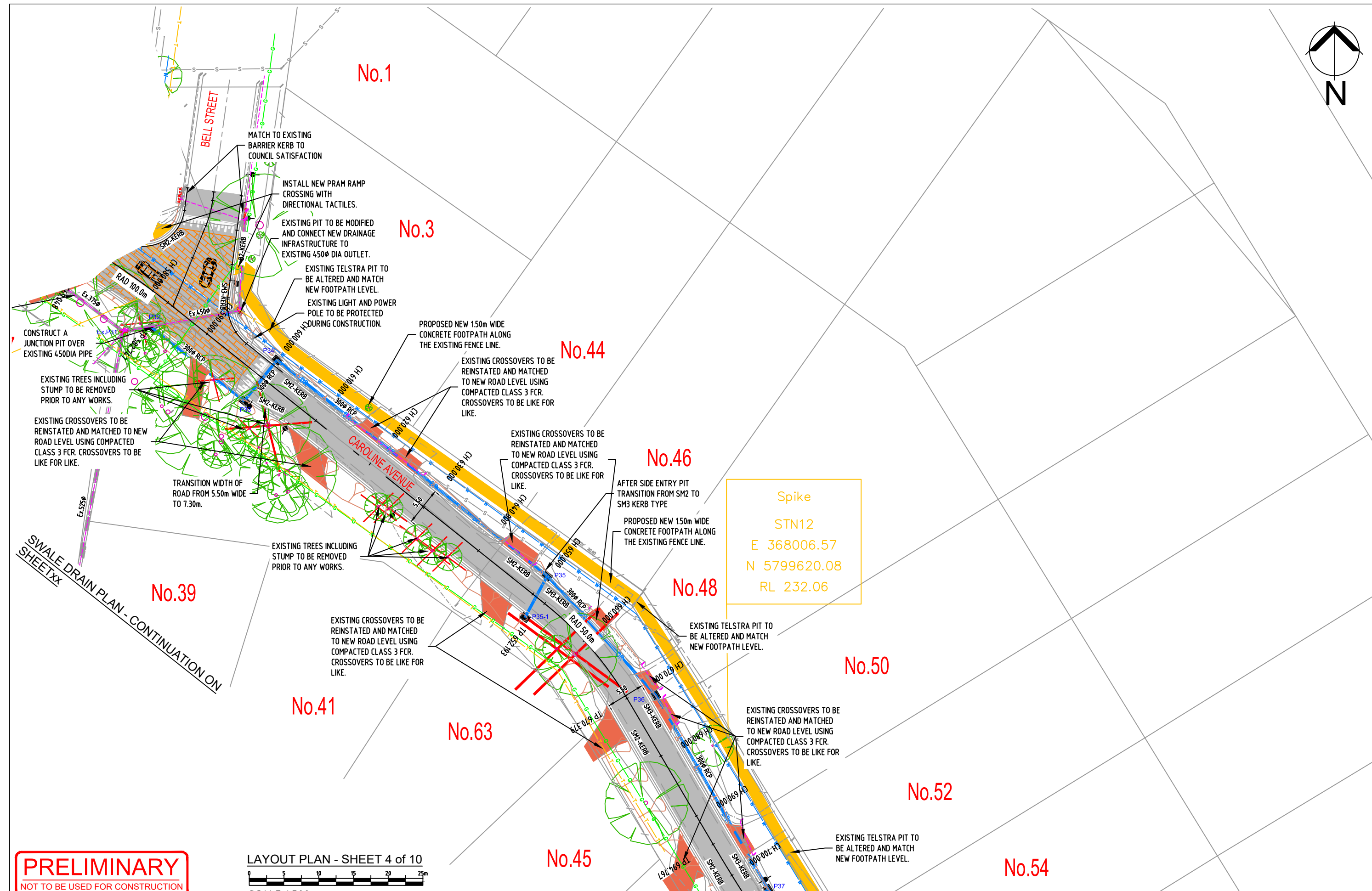
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PROPOSED KERB AND CHANNEL	---
EXISTING DRAINS AND PITS	---
PROPOSED DRAINS AND PITS	---
PROPOSED PROPERTY INLET	---

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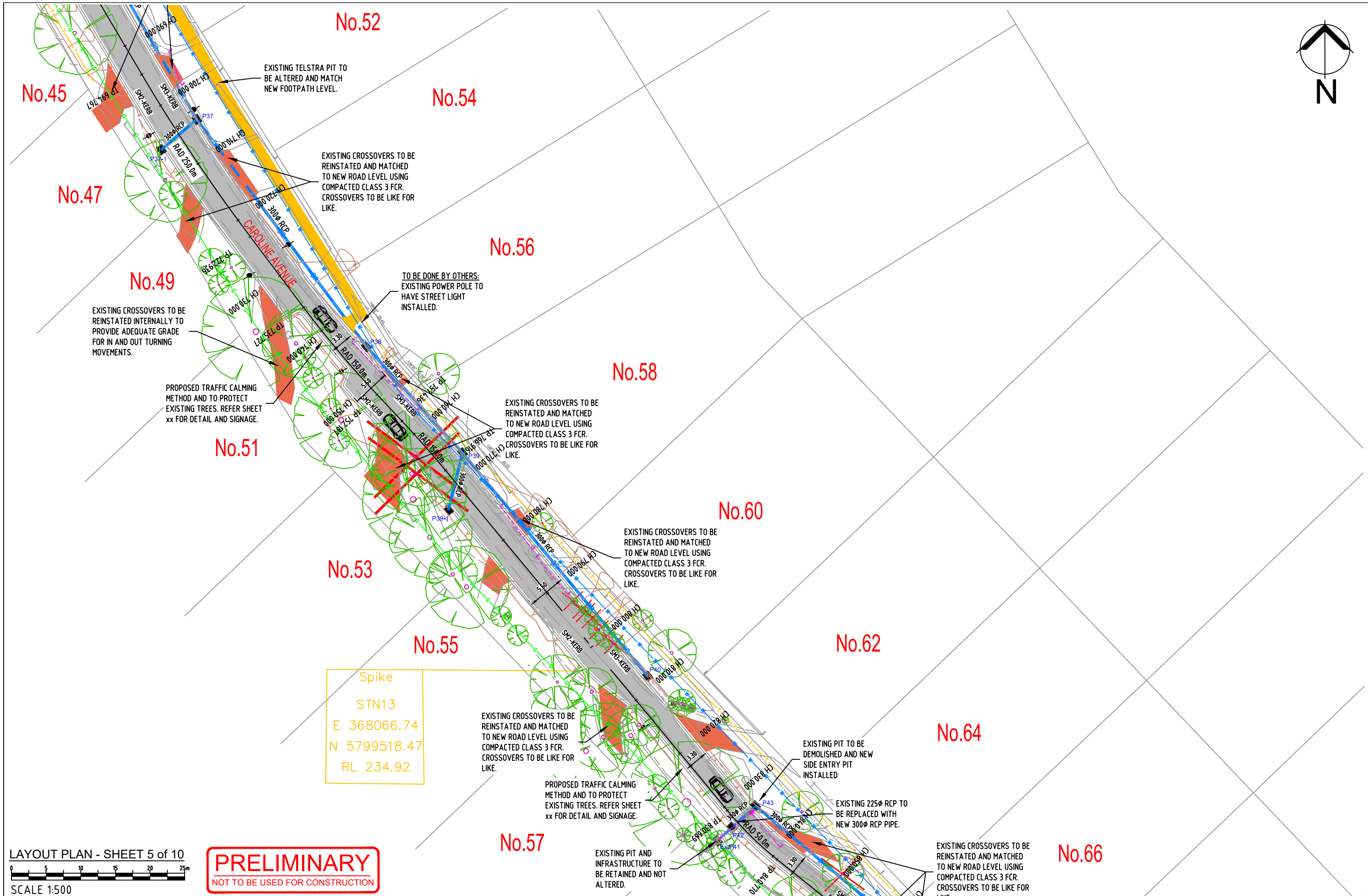
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CARDINIA SHIRE COUNCIL		Drawing No.	CCD.
CAROLINE AVENUE & BORONIA CRESCENT		20021	06
COCKATOO		Sheet	6 OF 91
ROAD RECONSTRUCTION WORKS		Rev	A
LAYOUT PLAN - CAROLINE AVENUE		CCD Ref. No.	20021




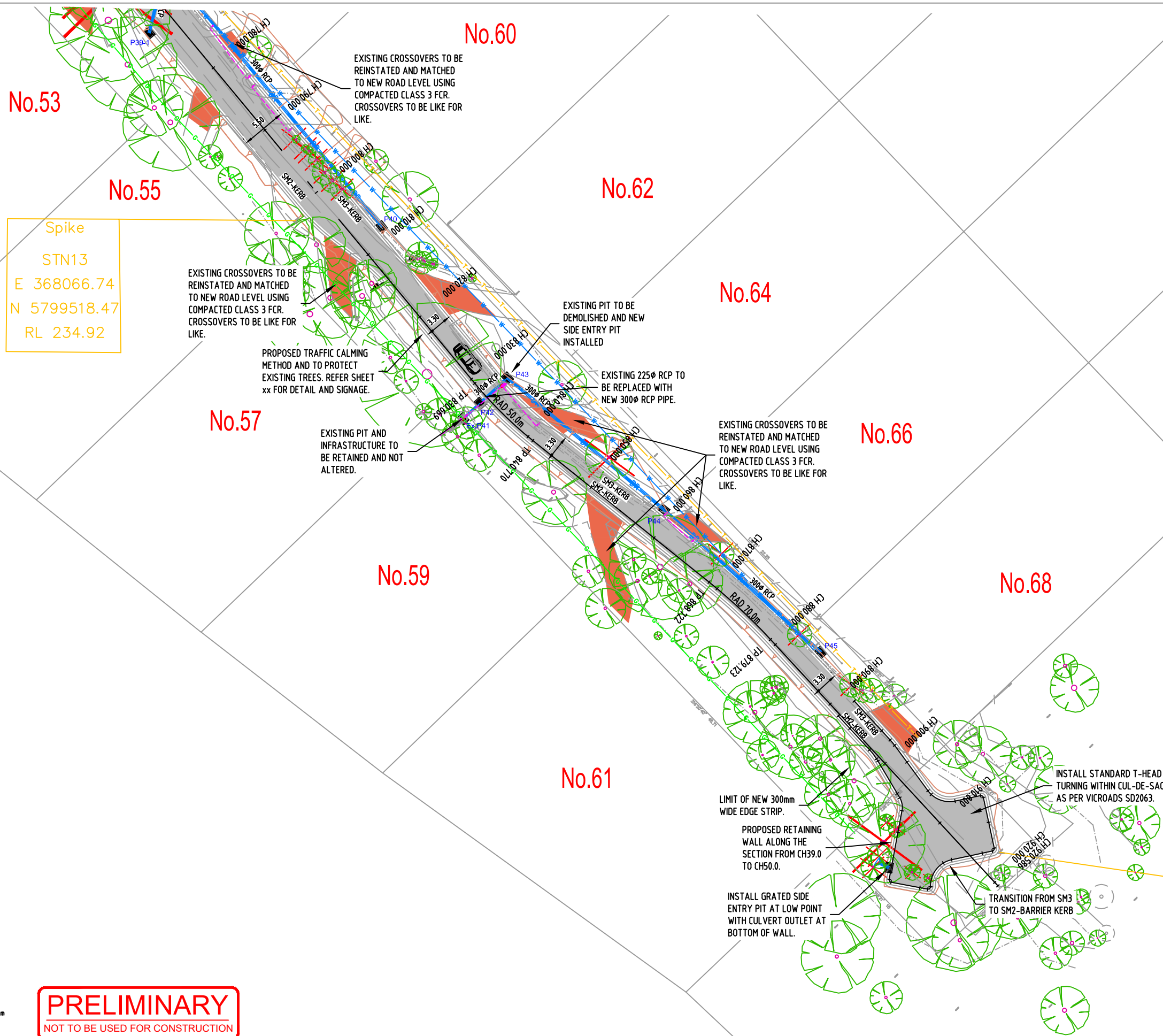
CARDINIA SHIRE COUNCIL	Drawing No. CCD.
CAROLINE AVENUE & BORONIA CRESCENT	20021 07
COCKATOO	Sheet 7 OF 91
ROAD RECONSTRUCTION WORKS	Rev A
LAYOUT PLAN - CAROLINE AVENUE	CCD Ref. No. 20021



LAYOUT PLAN - SHEET 5 of 10
SCALE 1:500

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			EXISTING KERB AND CHANNEL	SEWER	EX ---W---	EX ---S---O		Date:	AS SHOWN		CAROLINE AVENUE & BORONIA CRESCENT			20021 08
			PROPOSED KERB AND CHANNEL		EX ---S---	EX ---G---		Checked:	Approved		COCKATOO			Sheet
			EXISTING DRAINS AND PITS	GAS MAINS	EX ---G---	EX ---T---		Date:	Date:		ROAD RECONSTRUCTION WORKS			Rev
			PROPOSED DRAINS AND PITS	TELECOM CABLES AND PITS	EX ---T---	EX ---T---		Datum:	MELWAY Ref:		LAYOUT PLAN - CAROLINE AVENUE			CCD Ref. No.
01.04.2021	A	SUBMITTED FOR COMMENTS	PROPOSED PROPERTY INLET											20021



LAYOUT PLAN - SHEET 6 of 10
SCALE 1:500

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

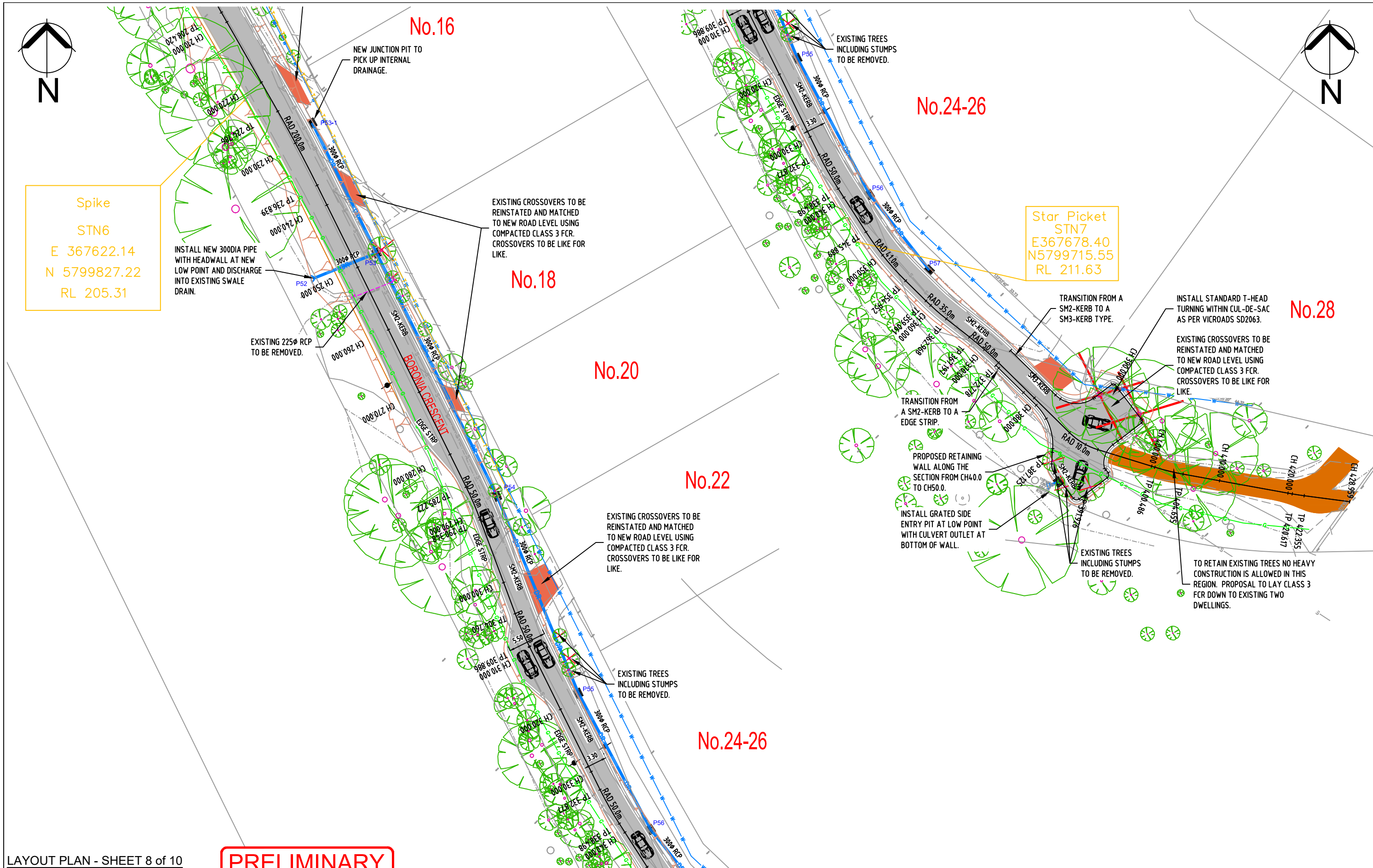
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mail@jamisoncraig.com.au
Phone: 5995 4388
Fax: 5995 5330

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

Drawing No CCD.	20021 09
Sheet	9 OF 91
Rev	A
CCD Ref. No.	20021



Spike
STN6
E 367622.14
N 5799827.22
RL 205.31

Star Picket
STN7
E367678.40
N5799715.55
RL 211.63

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LAYOUT PLAN - SHEET 8 of 10
SCALE 1:500

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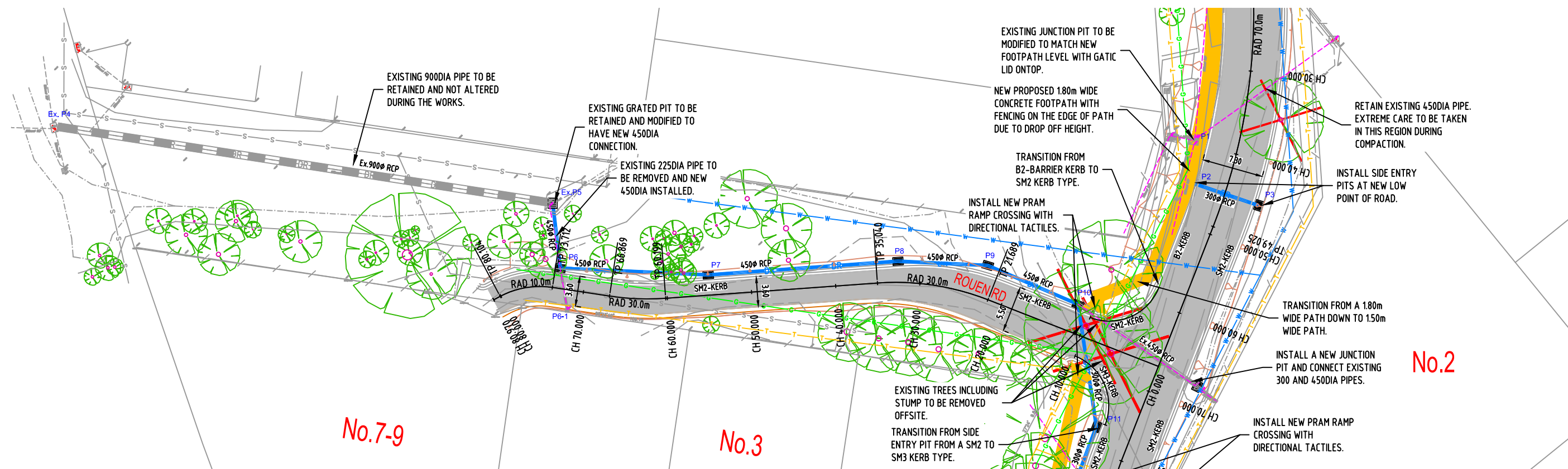
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PROPOSED KERB AND CHANNEL	---
EXISTING DRAINS AND PITS	---
PROPOSED DRAINS AND PITS	---
PROPOSED PROPERTY INLET	---

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

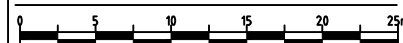
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CARDINIA SHIRE COUNCIL CAROLINE AVENUE & BORONIA CRESCENT COCKATOO ROAD RECONSTRUCTION WORKS LAYOUT PLAN - BORONIA CRESCENT	Drawing No CCD. 20021 11 Sheet 11 OF 91 Rev A CCD Ref. No. 20021
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LAYOUT PLAN - SHEET 9 of 10



SCALE 1:500

Date: 01.04.2021 Rev. A Amendments: SUBMITTED FOR COMMENTS

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Legend

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

WATER MAINS AND FITTINGS
SEWER
GAS MAINS
TELECOM CABLES AND PITS

EX --- W ---
PROP --- W ---
EX --- S ---
PROP --- S ---
EX --- G ---
PROP --- G ---
EX --- T ---
PROP --- T ---

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mail@jamisoncraig.com.au
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Fax: 5995 5330

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

LAYOUT PLAN - ROUEN ROAD

Drawing No CCD. 20021 12
Sheet 12 OF 91
Rev A
CCD Ref. No. 20021



No.35

EXISTING DRAINAGE
INFRASTRUCTURE TO BE
RETAINED AND NOT
ALTERED DURING
CONSTRUCTION WORKS.

Spike
STN10
E 367922.75
N 5799683.57
RL 220.15

CONSTRUCT A
JUNCTION PIT OVER
EXISTING 450DIA PIPE

EXISTING TREES INCLUDING
STUMP TO BE REMOVED
PRIOR TO ANY WORKS.

EXISTING CROSSOVERS TO BE
REINSTATED AND MATCHED
TO NEW ROAD LEVEL USING
COMPACTED CLASS 3 FCR.
CROSSOVERS TO BE LIKE FOR
LIKE.

TRANSITION WIDTH OF
ROAD FROM 5.50m WIDE
TO 7.30m.

No.37

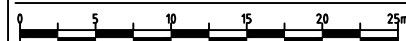
No.39

No.41

CONTRACTOR TO INSTALL
EARTHLOK OR SIMILAR
APPROVED PRODUCT FROM
THE OUTLET TO CH 10.0.

TYPICAL SECTION DETAIL OF SWALE DRAIN

LAYOUT PLAN - SHEET 10 of 10



SCALE 1:500

Date: Rev. Amendments:

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Legend

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

WATER MAINS AND FITTINGS

SEWER

GAS MAINS

TELECOM CABLES AND PITS

EX	---	W	---
PROP	---	W	---
EX	---	S	---
PROP	---	S	---
EX	---	G	---
PROP	---	G	---
EX	---	T	---
PROP	---	T	---

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P.O. Box 1207, Narre Warren 3805
mail@jamisoncraig.com.au
Phone: 5995 4388
Fax: 5995 5330

CARDINIA SHIRE COUNCIL

CAROLINE AVENUE & BORONIA CRESCENT

COCKATOO

ROAD RECONSTRUCTION WORKS

LAYOUT PLAN - CAROLINE AVE SWALE DRAIN

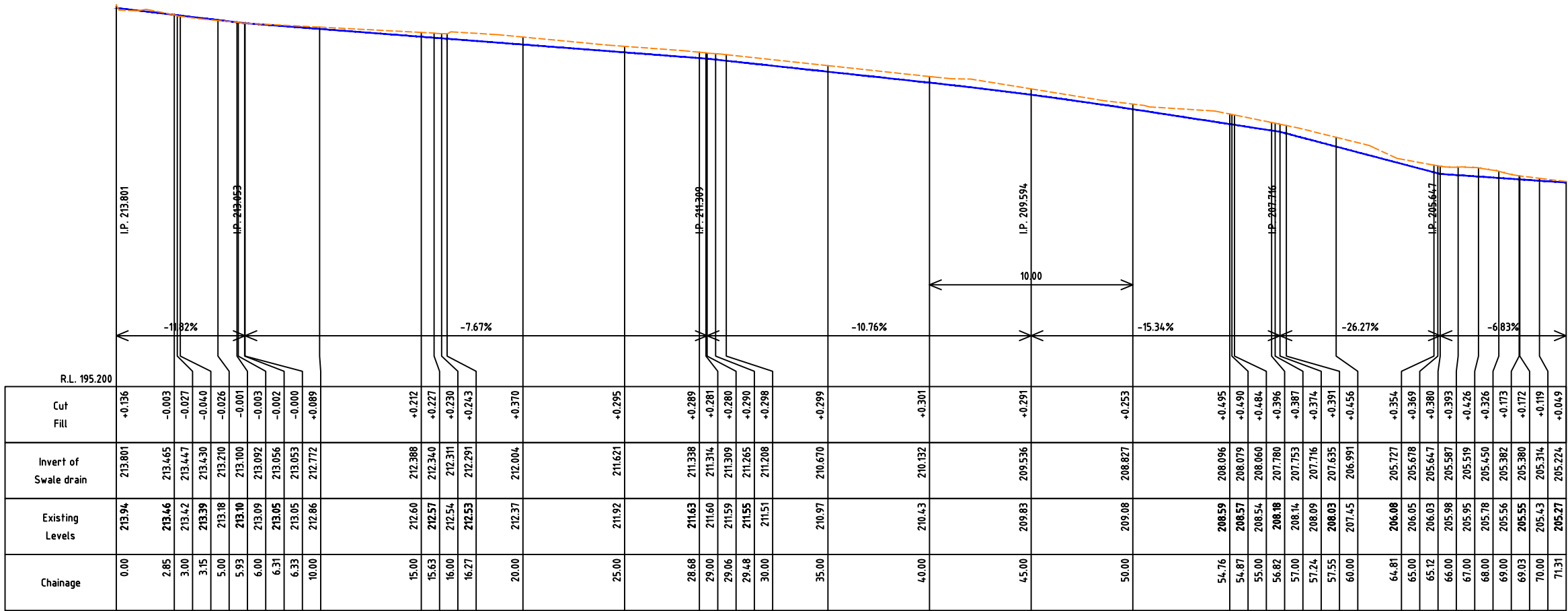
Drawing No CCD.

20021 13

Sheet 13 OF 91

Rev A

CCD Ref. No. 20021



LONGITUDINAL PLAN - SWALE DRAIN



HORIZONTAL SCALE 1:250



VERTICAL SCALE 1:250

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

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

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CARDINIA SHIRE COUNCIL
CAROLINE AVENUE & BORONIA CRESCENT
COCKATOO
ROAD RECONSTRUCTION WORKS
LONGITUDINAL PLAN - CAROLINE AVE SWALE DRAIN

Drawing No CCD.	20021 14
Sheet	14 OF 91
Rev	A
CCD Ref. No.	20021

POINT No.	EASTING	NORTHING	Level
14	367603.658	5800059.098	200.712
15	367603.947	5800060.054	200.633
16	367604.082	5800061.044	200.540
17	367604.058	5800062.043	200.433
18	367603.877	5800063.025	200.312
19	367603.542	5800063.966	200.176
20	367603.064	5800064.843	200.041
21	367603.028	5800064.897	200.032
22	367602.913	5800065.062	200.007
23	367602.452	5800065.633	199.916
24	367601.723	5800066.316	199.803
25	367600.896	5800066.876	199.701
26	367600.088	5800067.261	199.619

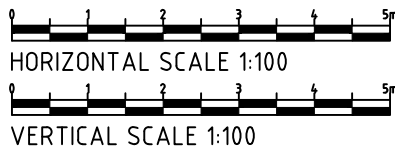
POINT No.	EASTING	NORTHING	Level
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28	367603.048	5800072.093	199.541
29	367604.038	5800071.959	199.628
30	367605.037	5800071.983	199.715
31	367605.856	5800072.122	199.787
32	367606.019	5800072.164	199.802
33	367606.961	5800072.498	199.889
34	367607.837	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

R.L. 195.400		I.P. 200.712		I.P. 200.534		I.P. 199.833		I.P. 199.619	
Cut		-0.509		-0.448		-0.353		-0.183	
Fill		-0.509		-0.426		-0.402		-0.184	
Lip of kerb		200.712		200.540		200.312		199.701	
Design Levels		200.711		200.491		200.433		199.620	
Existing Levels		200.20		200.09		199.96		199.44	
Chainage		0.00		2.00		4.00		9.00	
		0.01		2.00		4.00		9.00	
		1.00		2.00		4.00		9.00	
		2.00		2.00		4.00		9.00	
		2.47		2.00		4.00		9.00	
		3.00		2.00		4.00		9.00	
		4.00		2.00		4.00		9.00	
		4.94		2.00		4.00		9.00	
		4.96		2.00		4.00		9.00	
		5.00		2.00		4.00		9.00	
		6.00		2.00		4.00		9.00	
		6.06		2.00		4.00		9.00	
		6.27		2.00		4.00		9.00	
		7.00		2.00		4.00		9.00	
		7.42		2.00		4.00		9.00	
		8.00		2.00		4.00		9.00	
		9.00		2.00		4.00		9.00	
		9.89		2.00		4.00		9.00	
		9.90		2.00		4.00		9.00	

ProfileRoadCaroline Ave_Alignment-Rouen Rd_Alignment-START-LFrom0.000To9.896Scales: H 1 in100V 1 in100

INTERSECTION PLAN - ROUEN RD & BORONIA CRESCENT

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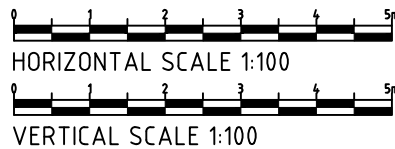
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Legend
EXISTING KERB AND CHANNEL
PROPOSED KERB AND CHANNEL
EXISTING DRAINS AND PITS
PROPOSED DRAINS AND PITS
PROPOSED PROPERTY INLET
P.L.I.

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

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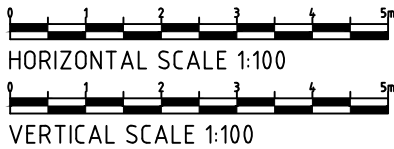
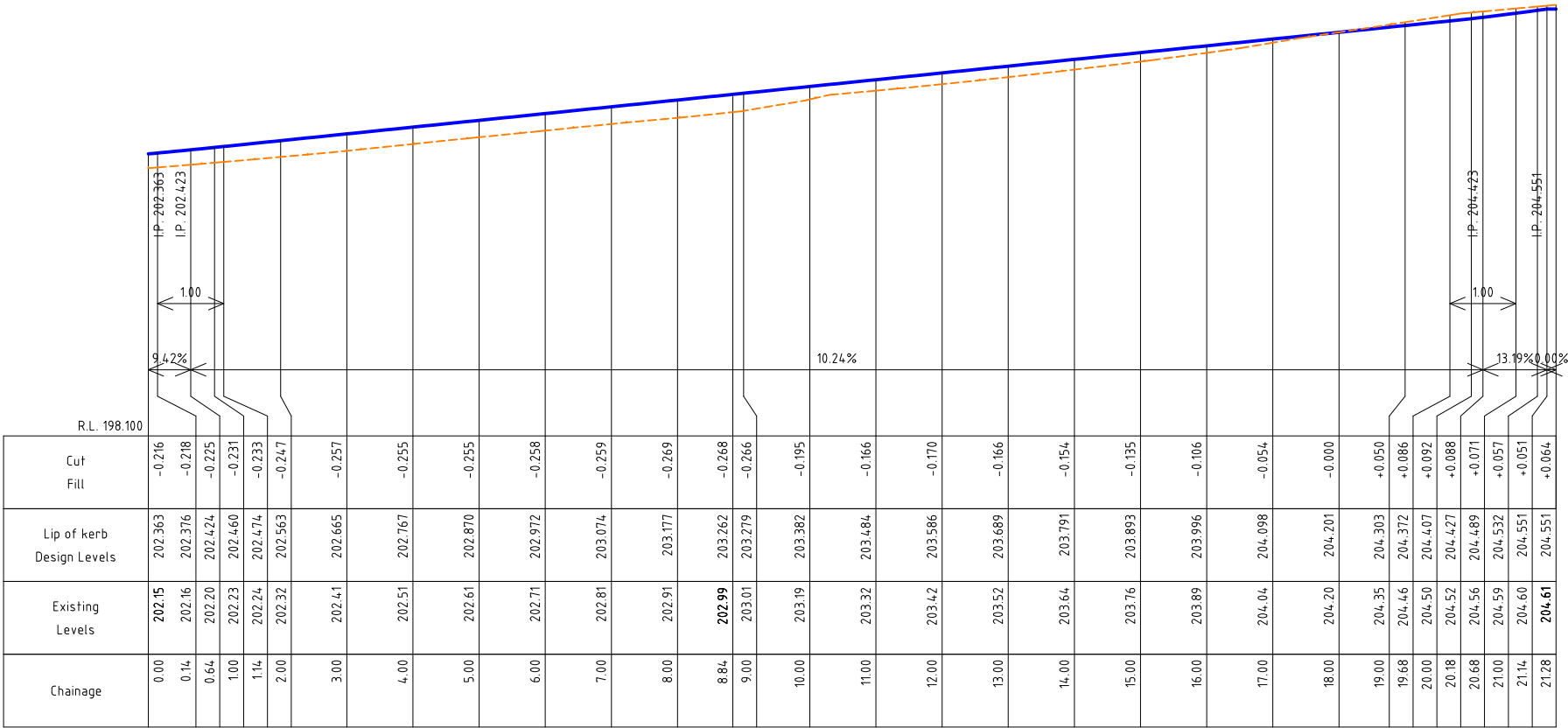
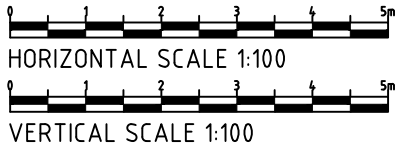
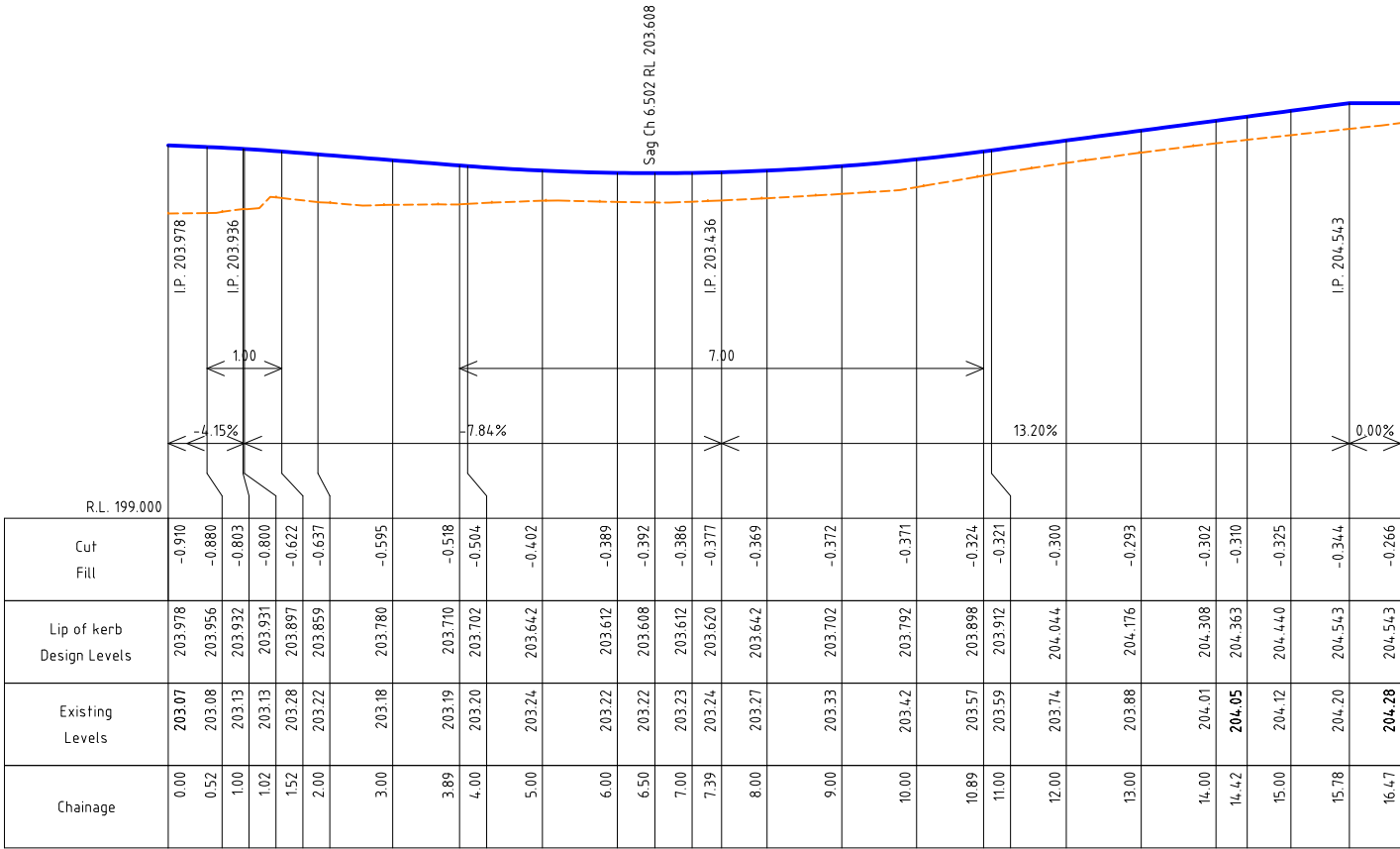
CARDINIA SHIRE COUNCIL	Drawing No CCD.
CAROLINE AVENUE & BORONIA CRESCENT	20021 15
COCKATOO	Sheet
ROAD RECONSTRUCTION WORKS	15 OF 91
INTERSECTION PLAN - BORONIA CRESC & ROUEN RD	Rev
	A
	CCD Ref. No.
	20021

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

INTERSECTION PLAN - CAROLINE AVENUE & BORONIA CRESCENT

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										CAROLINE AVENUE & BORONIA CRESCENT		20021 16
										COCKATOO		Sheet 16 OF 91
										ROAD RECONSTRUCTION WORKS		Rev A
01.04.2021	A	SUBMITTED FOR COMMENTS								INTERSECTION PLAN - BORONIA CRESC & CAROLINE AVE		CCD Ref. No. 20021



INTERSECTION PLAN -
CAROLINE AVENUE & BORONIA
CRESCENT

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PROPOSED DRAINS AND PITS	---
PROPOSED PROPERTY INLET	---

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

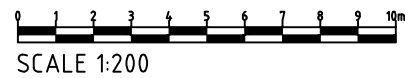
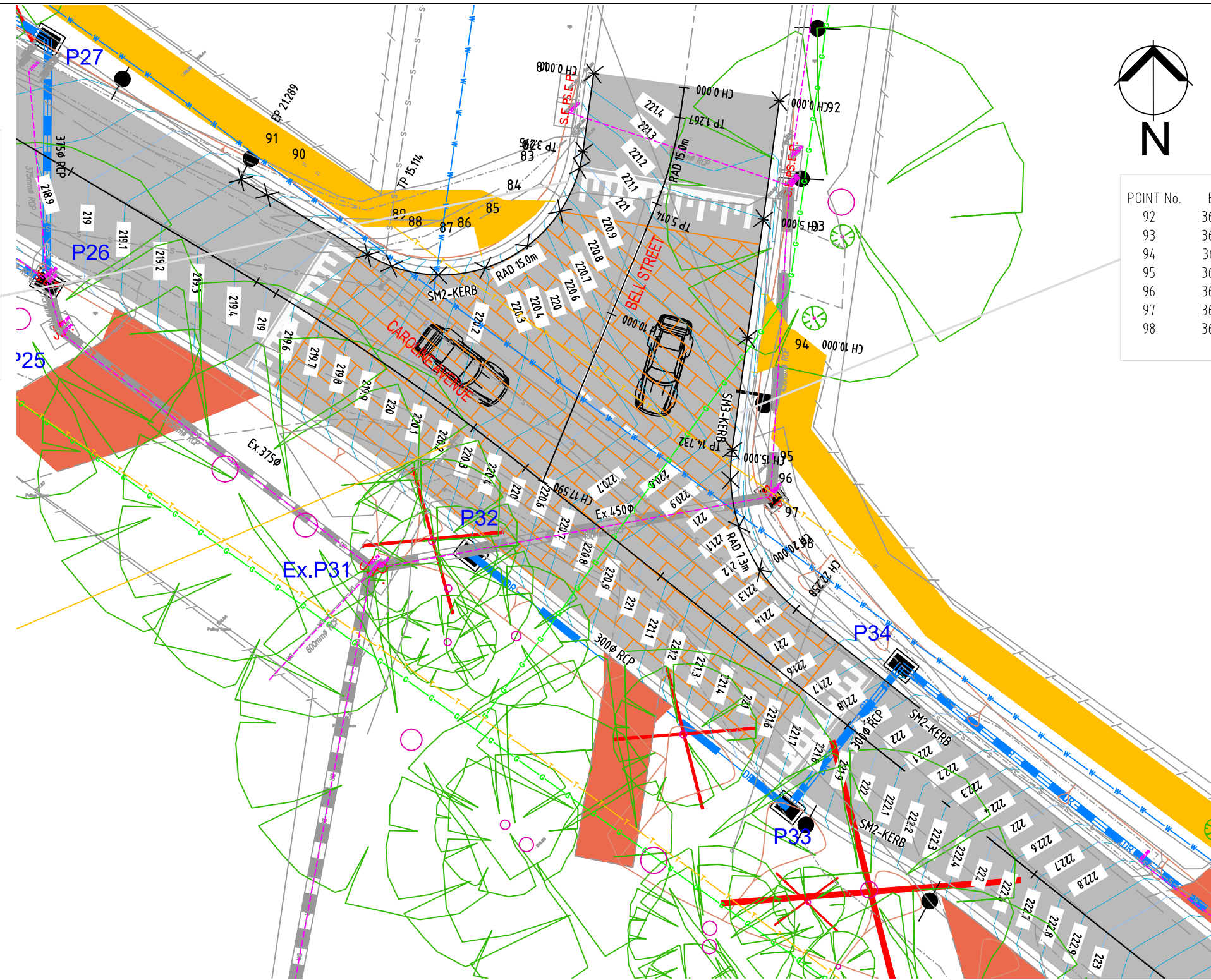
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CARDINIA SHIRE COUNCIL CAROLINE AVENUE & BORONIA CRESCENT COCKATOO ROAD RECONSTRUCTION WORKS	Drawing No CCD. 20021 17 Sheet 17 OF 91 Rev A CCD Ref. No. 20021
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POINT No.	EASTING	NORTHING	Level
81	367928.757	5799699.075	221.362
82	367928.303	5799695.811	221.033
83	367928.165	5799695.120	220.957
84	367927.349	5799693.304	220.704
85	367925.984	5799691.855	220.439
86	367924.220	5799690.933	220.174
87	367922.251	5799690.638	219.965
88	367920.294	5799691.004	219.759
89	367919.290	5799691.482	219.654
90	367915.092	5799693.982	219.269
91	367913.985	5799694.641	219.170

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



INTERSECTION PLAN -
CAROLINE AVENUE & BELL
STREET

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Date:	Rev.	Amendments:
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Legend
EXISTING KERB AND CHANNEL
PROPOSED KERB AND CHANNEL
EXISTING DRAINS AND PITS
PROPOSED DRAINS AND PITS
PROPOSED PROPERTY INLET
WATER MAINS AND FITTINGS
SEWER
GAS MAINS
TELECOM CABLES AND PITS

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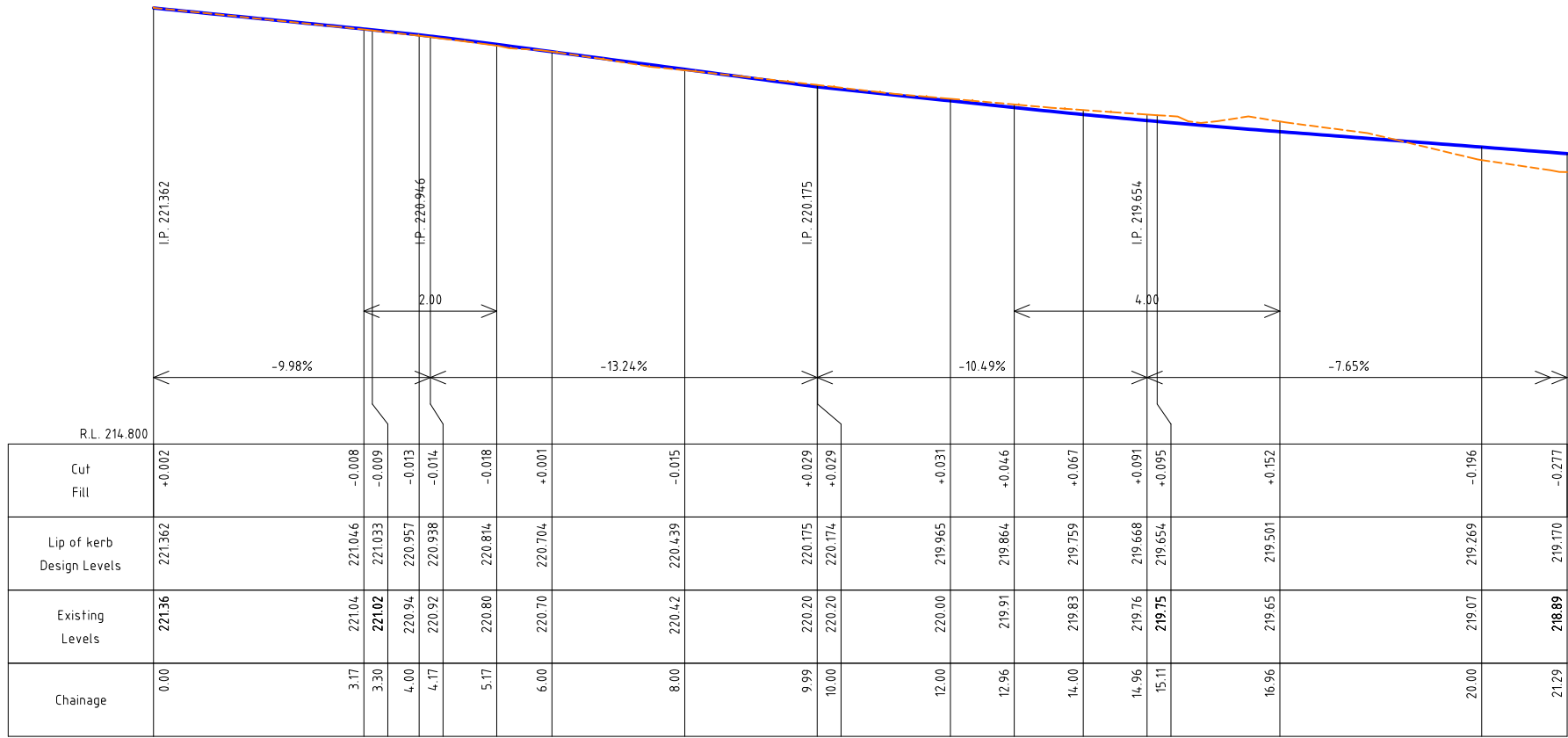
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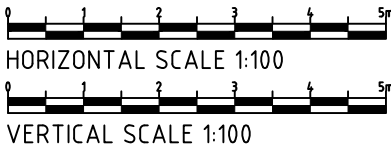
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mail@jamisoncraig.com.au

Phone: 5995 4388
Fax: 5995 5330

CARDINIA SHIRE COUNCIL	Drawing No CCD.
CAROLINE AVENUE & BORONIA CRESCENT	20021 18
COCKATOO	Sheet 18 OF 91
ROAD RECONSTRUCTION WORKS	Rev A
INTERSECTION PLAN - BELL STREET & CAROLINE AVE	CCD Ref. No. 20021



ProfileRoadBell Stree_R LOK_AlignmentFrom0.000To21.289Scales: H 1 in100V 1 in100



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

INTERSECTION PLAN -
CAROLINE AVENUE & BELL
STREET

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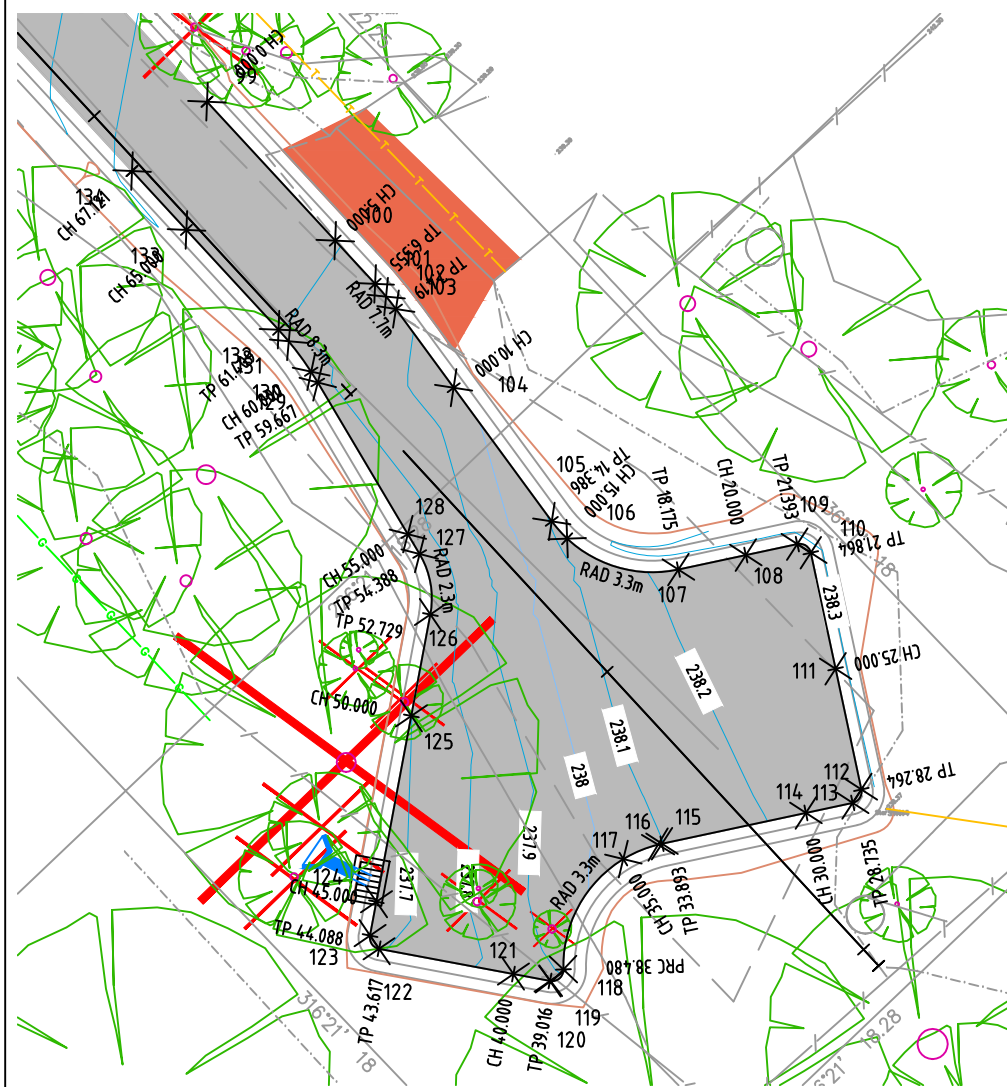
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EXISTING DRAINS AND PITS	
PROPOSED DRAINS AND PITS	
PROPOSED PROPERTY INLET	
WATER MAINS AND FITTINGS	EX ---W--- PROP ---W---
SEWER	EX ---S--- PROP ---S---
GAS MAINS	EX ---G--- PROP ---G---
TELECOM CABLES AND PITS	EX ---T--- PROP ---T---

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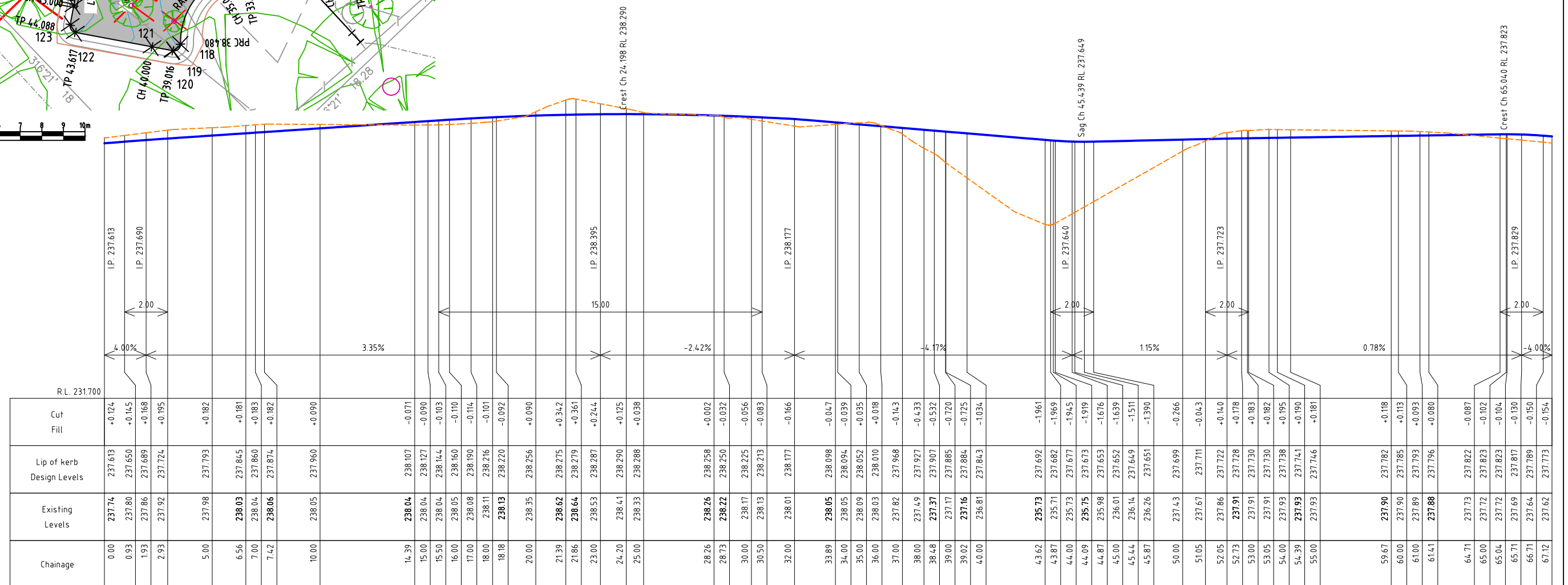
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P.O. Box 1207, Narre Warren 3805
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CARDINIA SHIRE COUNCIL	Drawing No CCD.
CAROLINE AVENUE & BORONIA CRESCENT	20021 19
COCKATOO	Sheet 19 OF 91
ROAD RECONSTRUCTION WORKS	Rev A
INTERSECTION PLAN - BELL STREET & CAROLINE AVE	CCD Ref. No. 20021

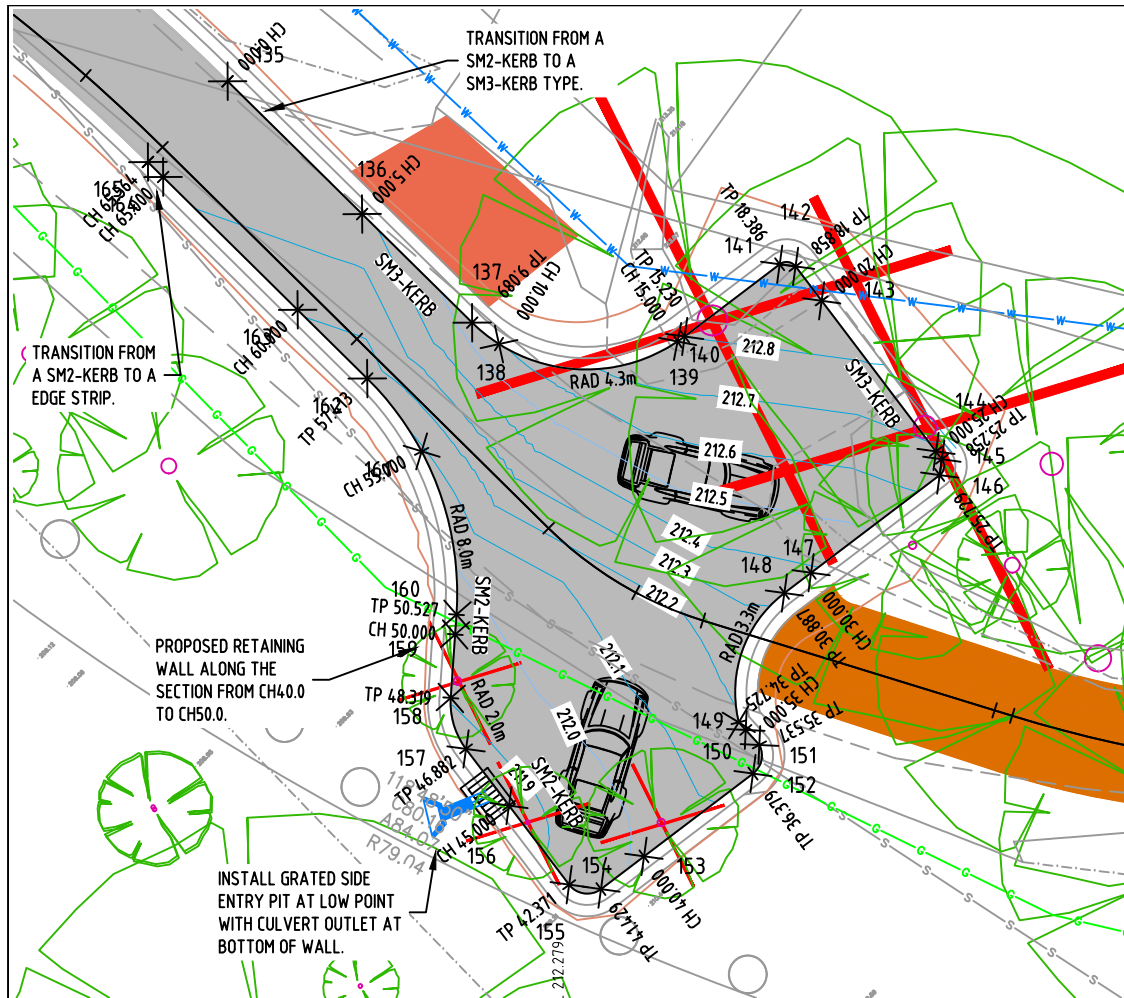


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101	368140.310	5799454.264	237.845
102	368140.602	5799453.929	237.860
103	368140.860	5799453.598	237.874
104	368142.387	5799451.518	237.960
105	368144.984	5799447.983	238.107
106	368145.391	5799447.525	238.127
107	368148.334	5799446.709	238.220
108	368150.119	5799447.091	238.256
109	368151.480	5799447.382	238.275
110	368151.836	5799447.152	238.279
111	368152.493	5799444.085	238.288
112	368153.175	5799440.893	238.258
113	368152.945	5799440.537	238.250
114	368151.708	5799440.273	238.225
115	368147.901	5799439.458	238.098
116	368147.797	5799439.434	238.094
117	368146.877	5799439.051	238.052
118	368145.293	5799436.132	237.907
119	368144.954	5799435.826	237.885
120	368144.938	5799435.828	237.884
121	368143.971	5799436.010	237.843
122	368140.416	5799436.678	237.692
123	368140.176	5799437.028	237.673

INTERSECTION PLAN - CAROLINE AVENUE COURT HEAD SETOUT



Date:	Rev.	Amendments:	Legend		WATER MAINS AND FITTINGS	EX ---W--- PROP ---W--- SEWER	EX ---S--- PROP ---S--- GAS MAINS	EX ---G--- PROP ---G--- TELECOM CABLES AND PITS	EX ---T--- PROP ---T--- THIS DOCUMENT/DRAWING IS PROTECTED BY FEDERAL COPYRIGHT LAW. COPYING IN ANY SHAPE OR FORM, WHOLE OR PART WITHOUT THE WRITTEN AUTHORISATION OF CRAIG CIVIL DESIGN PTY LTD. IS STRICTLY PROHIBITED. CIVIL PROCEEDINGS CLAIMING DAMAGES OR OTHER REMEDIES MAY BE BROUGHT AGAINST PERSONS FOUND COPYING THIS DOCUMENT.	Design: Date: JULY 2020 Scale: AS SHOWN	Checked: Date: JULY 2020 Approved Date:	<div> Craig Civil Design Civil Engineering Consultants & Project Managers A.C.N. 159 212 245 P.O. Box 1207, Narre Warren 3805 Fax: 5995 4388 Phone: 5995 5330 mail@jamisoncraig.com.au</div>	CARDINIA SHIRE COUNCIL CAROLINE AVENUE & BORONIA CRESCENT COCKATOO ROAD RECONSTRUCTION WORKS	Drawing No. CCD. 20021 20 Sheet 20 OF 91 Rev A
01.04.2021	A	SUBMITTED FOR COMMENTS	EXISTING KERB AND CHANNEL PROPOSED KERB AND CHANNEL EXISTING DRAINS AND PITS PROPOSED DRAINS AND PITS PROPOSED PROPERTY INLET	     P...				Datum: AHD MELWAY Ref:		INTERSECTION PLAN - CAROLINE AVE COURT HEAD	CCD Ref. No. 20021			



INTERSECTION PLAN -
BORONIA CRESCENT COURT
HEAD SETOUT

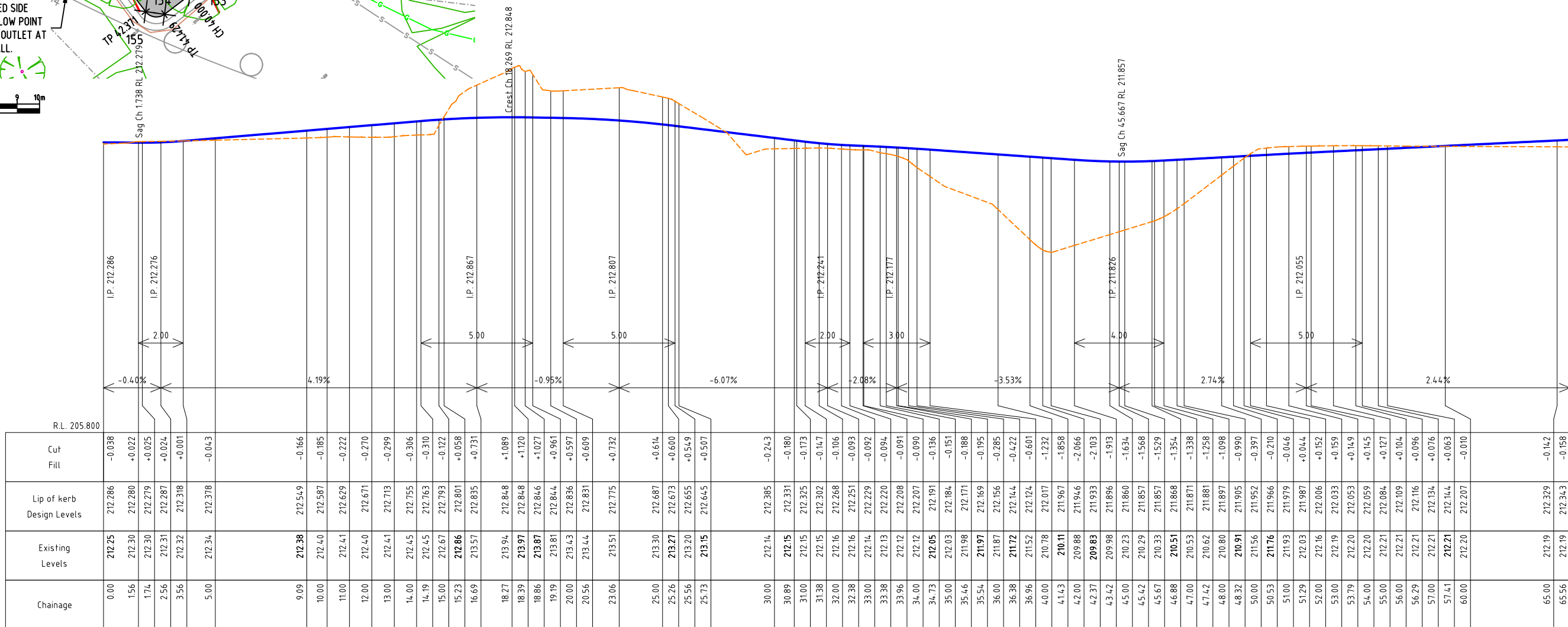
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VERTICAL SCALE 1:100



HORIZONTAL SCALE 1:200



ProfileRoadBoronia Rd_Court Head_LOK alignmentFrom0.000To65.564Scales: H 1 in200V 1 in100

Date:	Rev.	Amendments:
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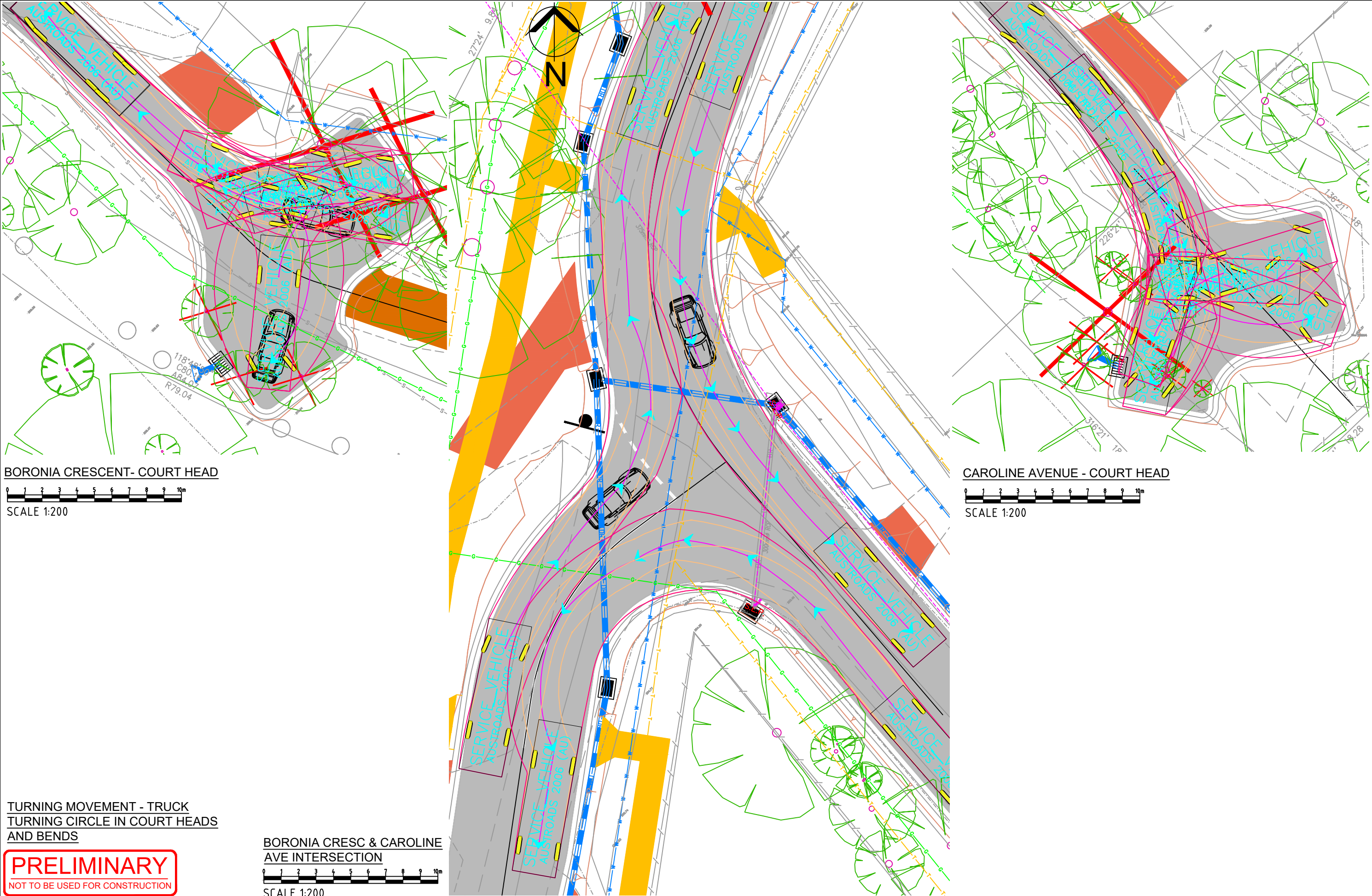
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EXISTING DRAINS AND PITS
PROPOSED DRAINS AND PITS
PROPOSED PROPERTY INLET
WATER MAINS AND FITTINGS
SEWER
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CARDINIA SHIRE COUNCIL	Drawing No CCD.
CAROLINE AVENUE & BORONIA CRESCENT	20021 21
COCKATOO	Sheet 21 OF 91
ROAD RECONSTRUCTION WORKS	Rev A
INTERSECTION PLAN - BORONIA CRESCENT COURT HEAD	CCD Ref. No. 20021



Date:	Rev.	Amendments:
01.04.2021	A	SUBMITTED FOR COMMENTS

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

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

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CARDINIA SHIRE COUNCIL	Drawing No CCD.
CAROLINE AVENUE & BORONIA CRESCENT	20021 22
COCKATOO	Sheet 22 OF 91
ROAD RECONSTRUCTION WORKS	Rev A
TURNING MOVEMENTS	CCD Ref. No. 20021



SIGNAGE AND LINE MARKING PLAN

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SCALE 1:200

Date:	Rev.	Amendments:
01.04.2021	A	SUBMITTED FOR COMMENTS

Legend

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

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

EX ---W---	PROP ---W---
EX ---S---O	PROP ---S---O
EX ---G---	PROP ---G---
EX ---T---	PROP ---T---

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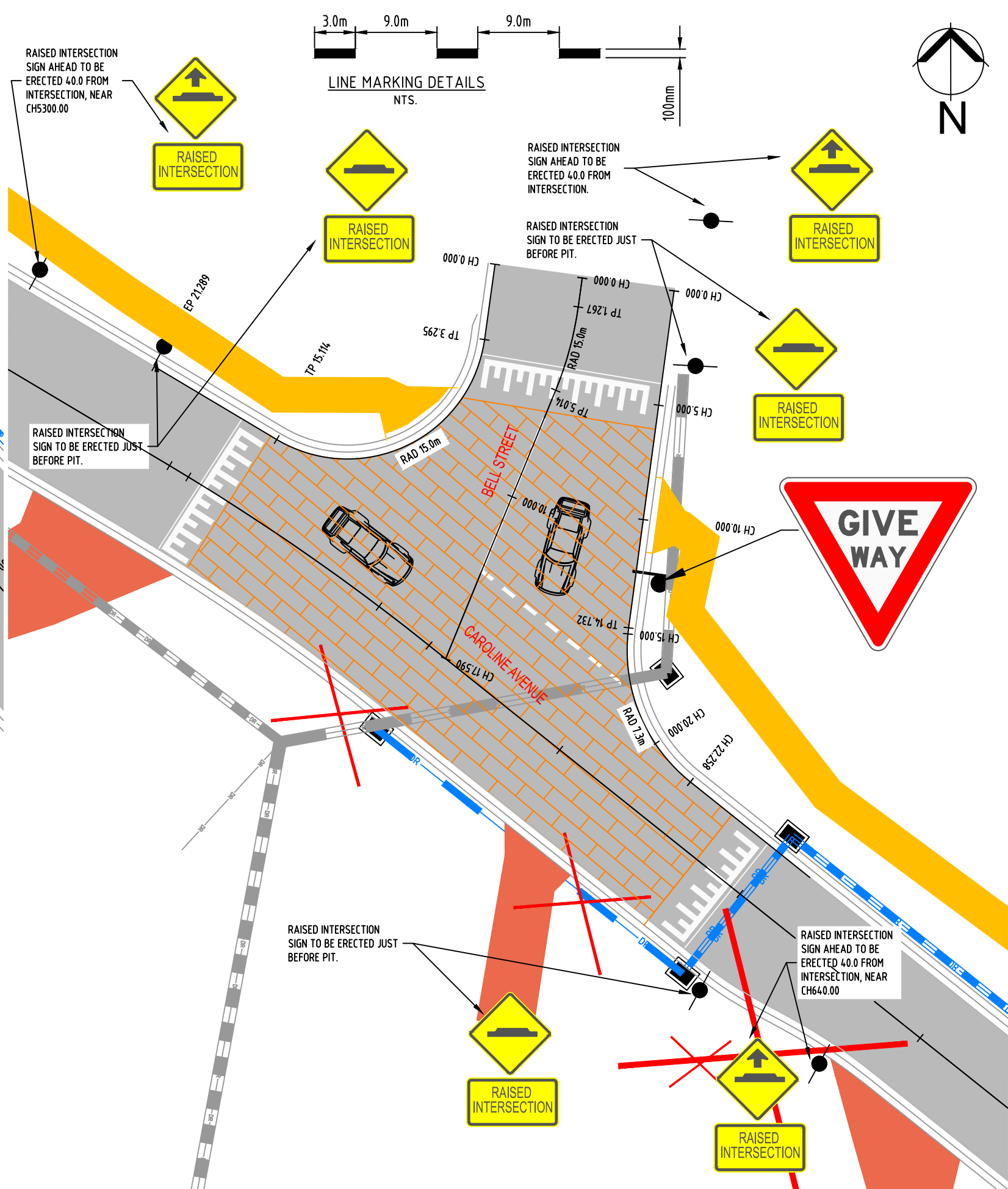
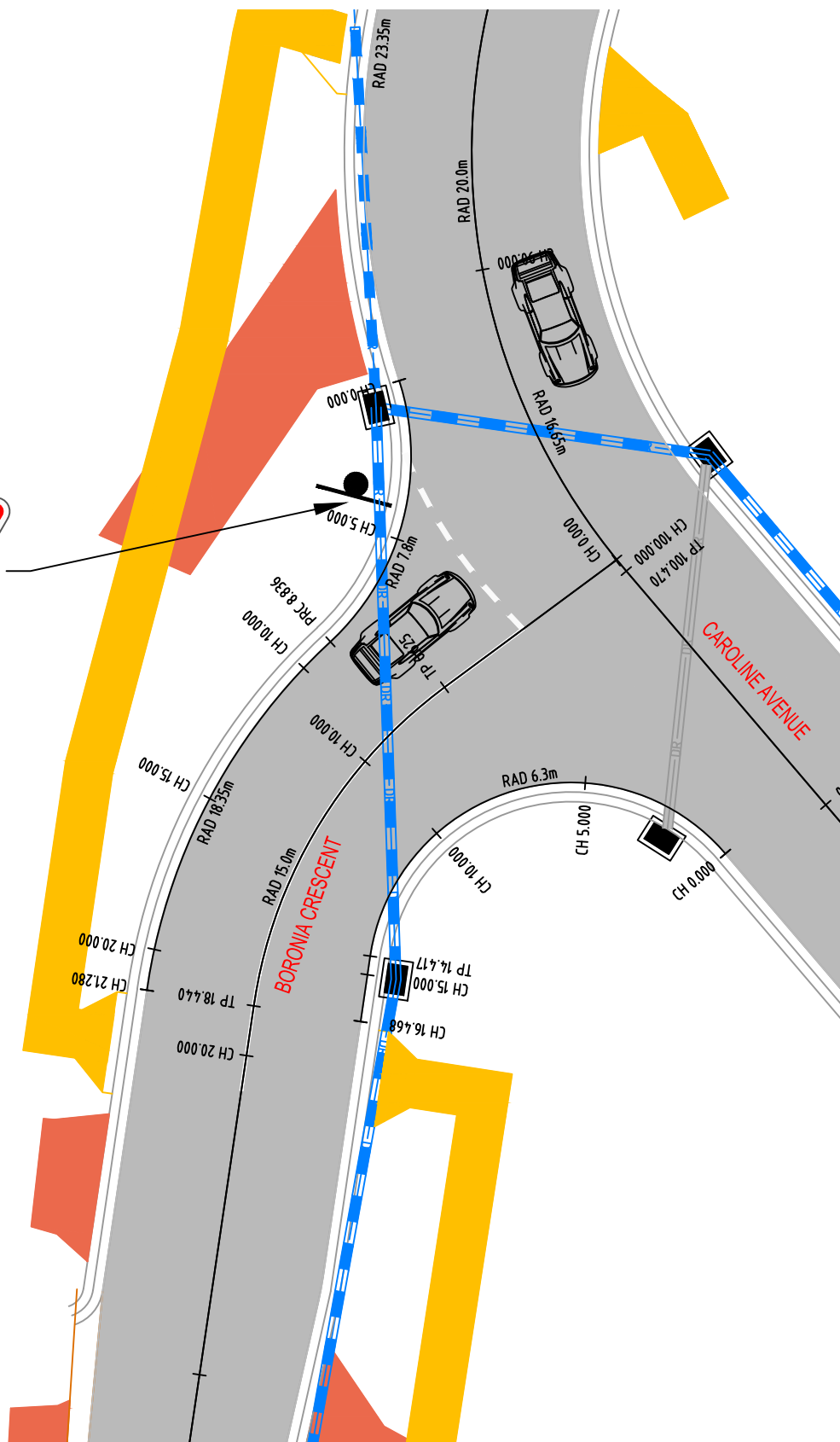
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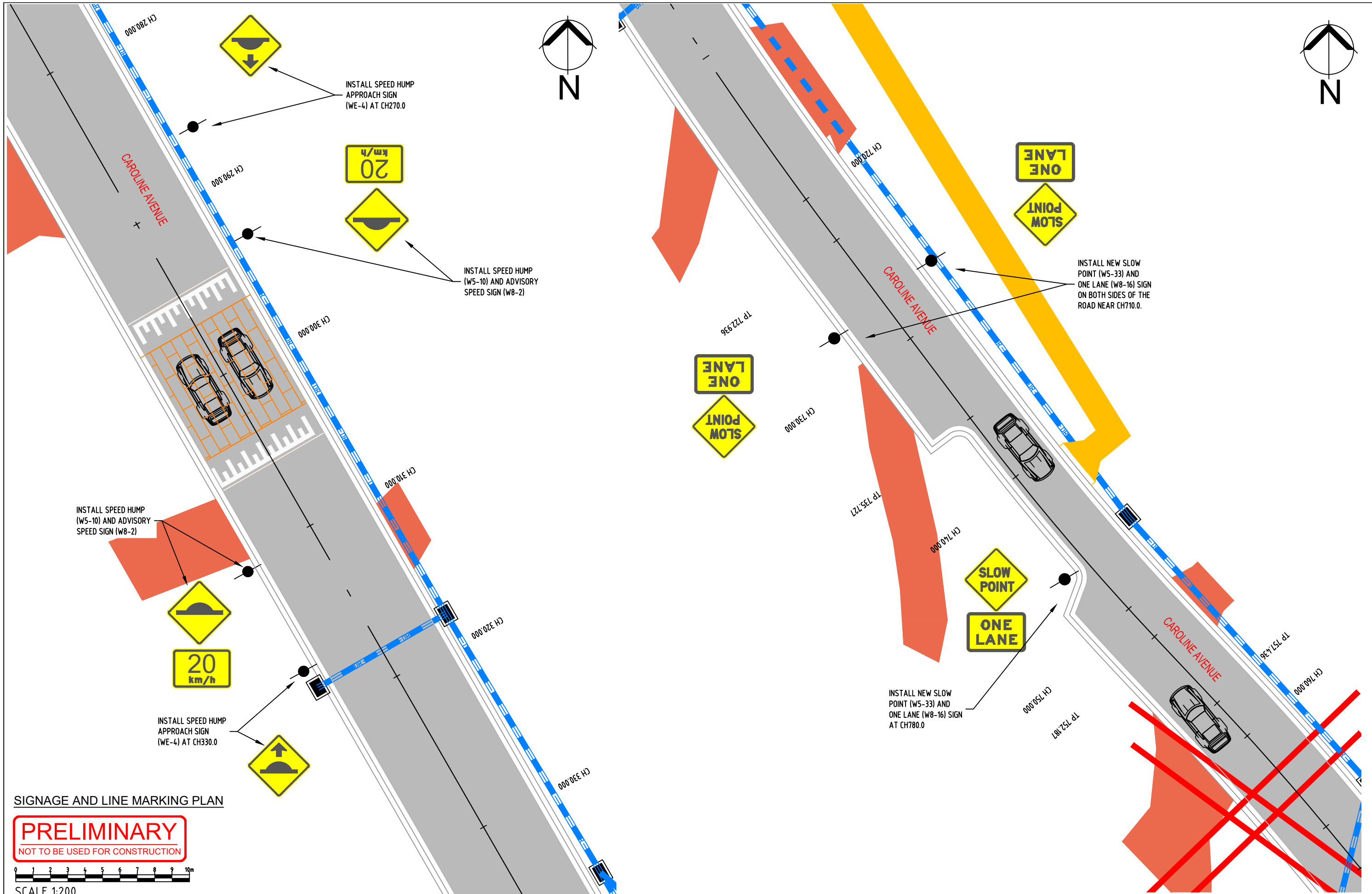
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A.C.N. 199 212 245
Phone: 5995 4388
Fax: 5995 5330
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CARDINIA SHIRE COUNCIL
CAROLINE AVENUE & BORONIA CRESCENT
COCKATOO
ROAD RECONSTRUCTION WORKS
SIGNAGE AND LINE MARKING PLAN

Drawing No CCD.	20021 23
Sheet	23 OF 91
Rev	A
CCD Ref. No.	20021





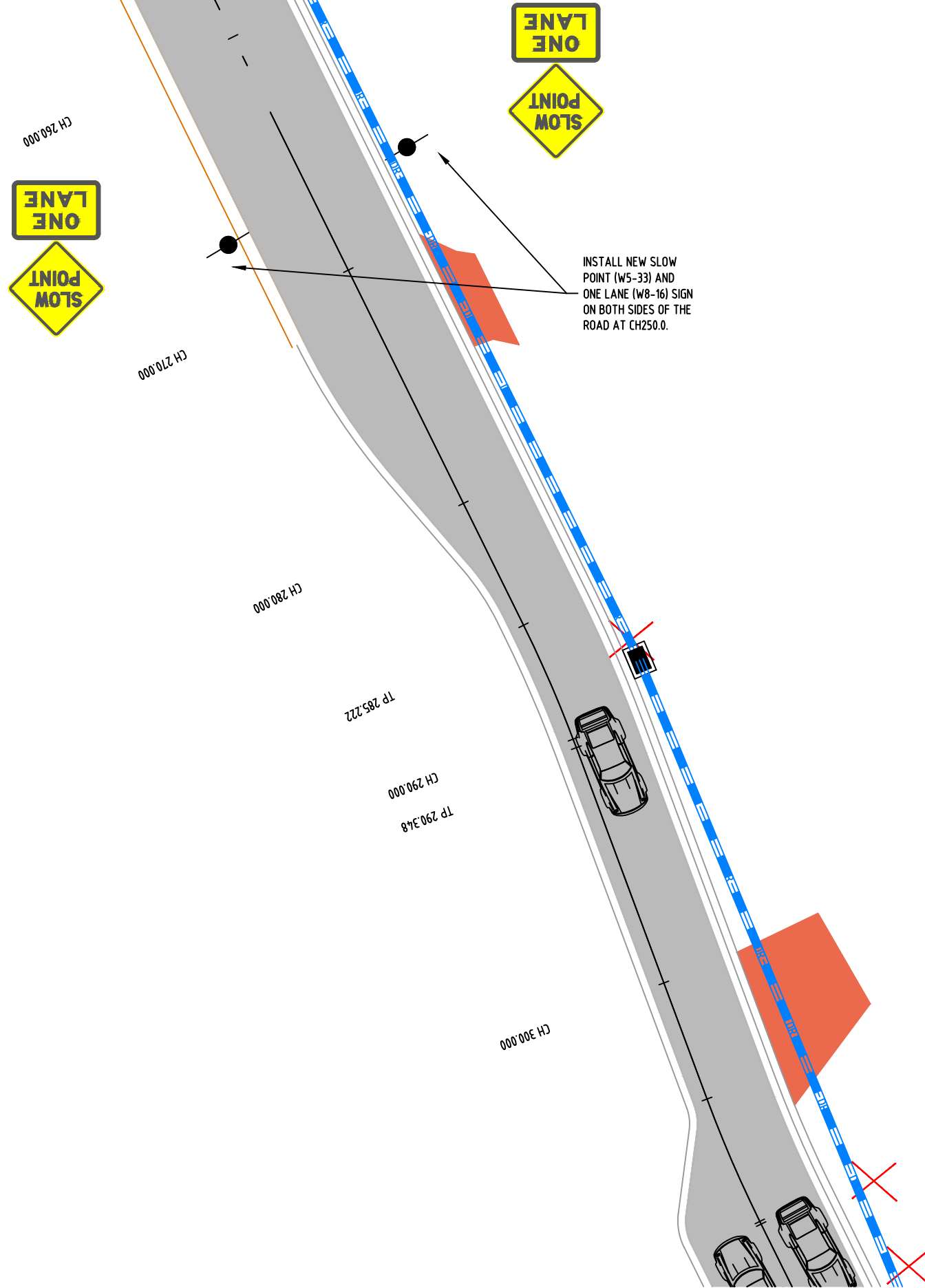
SIGNAGE AND LINE MARKING PLAN

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SCALE 1:200

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			EXISTING KERB AND CHANNEL	SEWER	PROP ---W---		Checked: JULY 2020	Approved Date:		CAROLINE AVENUE & BORONIA CRESCENT		20021 24
			PROPOSED KERB AND CHANNEL	GAS MAINS	EX ---S---O		Date: JULY 2020			COCKATOO		Sheet 24 OF 91
			EXISTING DRAINS AND PITS	TELECOM CABLES AND PITS	PROP ---S---		Datum: AHD	MELWAY Ref:		ROAD RECONSTRUCTION WORKS		Rev A
01.04.2021	A	SUBMITTED FOR COMMENTS	PROPOSED DRAINS AND PITS		EX ---G---					SIGNAGE AND LINE MARKING PLAN		CCD Ref. No. 20021
			PROPOSED PROPERTY INLET		EX ---T---							




SIGNAGE AND LINE MARKING PLAN

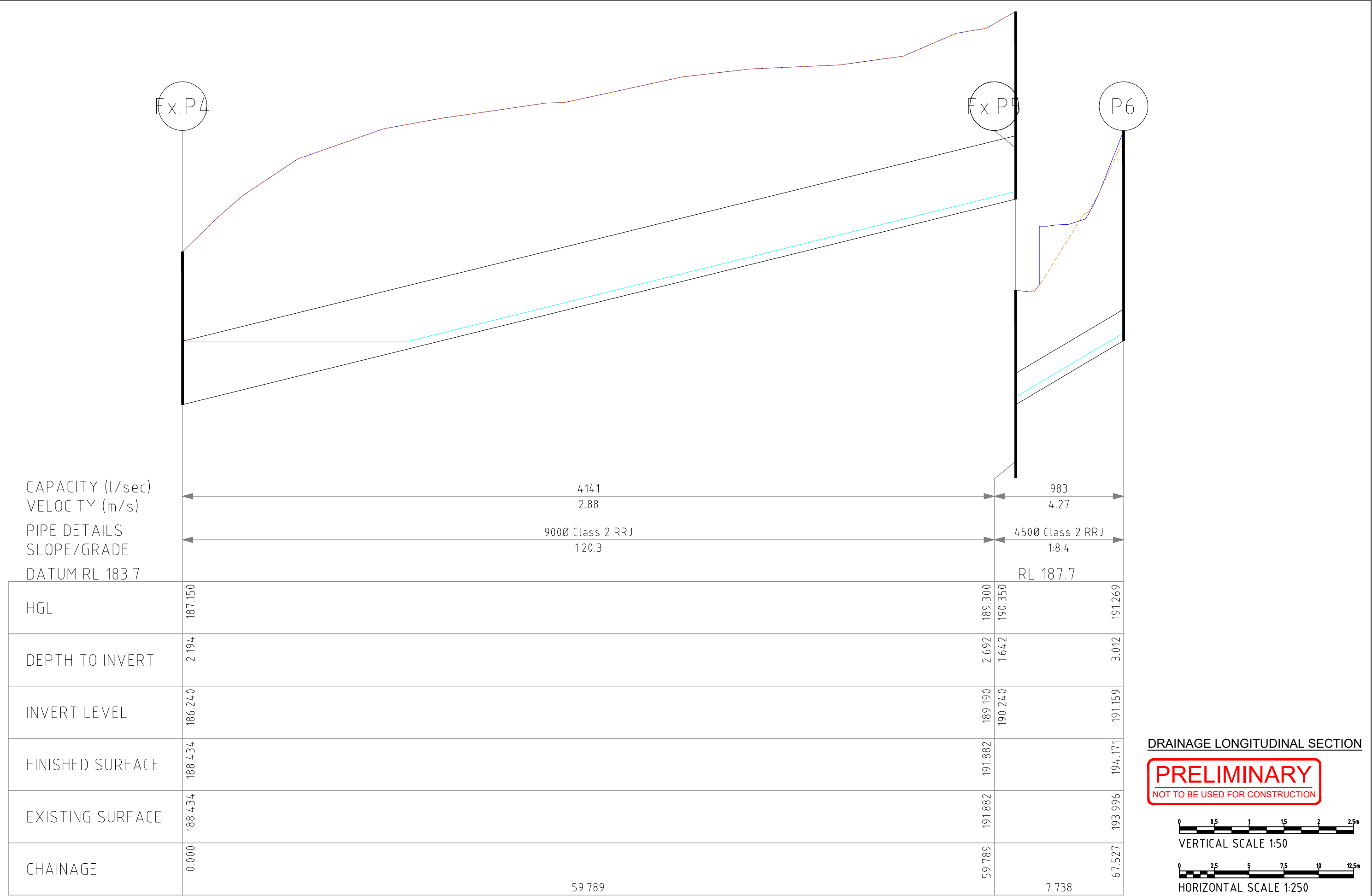
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SCALE 1:200

Date:	Rev.	Amendments:	<div><div><div>Legend</div><div>EXISTING KERB AND CHANNEL</div><div>PROPOSED KERB AND CHANNEL</div><div>EXISTING DRAINS AND PITS</div><div>PROPOSED DRAINS AND PITS</div><div>PROPOSED PROPERTY INLET</div></div><div><div>WATER MAINS AND FITTINGS</div><div>SEWER</div><div>GAS MAINS</div><div>TELECOM CABLES AND PITS</div></div><div><div>EX ---W---</div><div>PROP ---W---</div><div>EX ---S---○</div><div>PROP ---S---</div><div>EX ---G---</div><div>PROP ---G---</div><div>EX ---T---■</div><div>PROP ---T---■</div></div><div><div>THIS DOCUMENT/DRAWING IS PROTECTED BY FEDERAL COPYRIGHT LAW. COPYING IN ANY SHAPE OR FORM, WHOLE OR PART WITHOUT THE WRITTEN AUTHORISATION OF CRAIG CIVIL DESIGN PTY LTD. IS STRICTLY PROHIBITED.</div><div>CIVIL PROCEEDINGS CLAIMING DAMAGES OR OTHER REMEDIES MAY BE BROUGHT AGAINST PERSONS FOUND COPYING THIS DOCUMENT.</div></div></div>										Design: Date: JULY 2020	Scale: AS SHOWN	<div><div>CCD</div><div>Craig Civil Design</div><div>Civil Engineering Consultants & Project Managers</div><div>A.C.N. 159 212 245</div><div>P.O. Box 1207, Narre Warren 3805</div><div>Phone: 5995 4388</div><div>mail@jamisoncraig.com.au</div><div>Fax: 5995 5330</div></div>				CARDINIA SHIRE COUNCIL CAROLINE AVENUE & BORONIA CRESCENT COCKATOO ROAD RECONSTRUCTION WORKS SIGNAGE AND LINE MARKING PLAN		Drawing No CCD. 20021 26 Sheet 26 OF 91 Rev A CCD Ref. No. 20021
01.04.2021	A	SUBMITTED FOR COMMENTS											Checked: Date: JULY 2020	Approved Date:							
													Datum: AHD	MELWAY Ref:							

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01/04/2021	A	SUBMITTED FOR COMMENTS												



DRAINAGE LONGITUDINAL SECTION

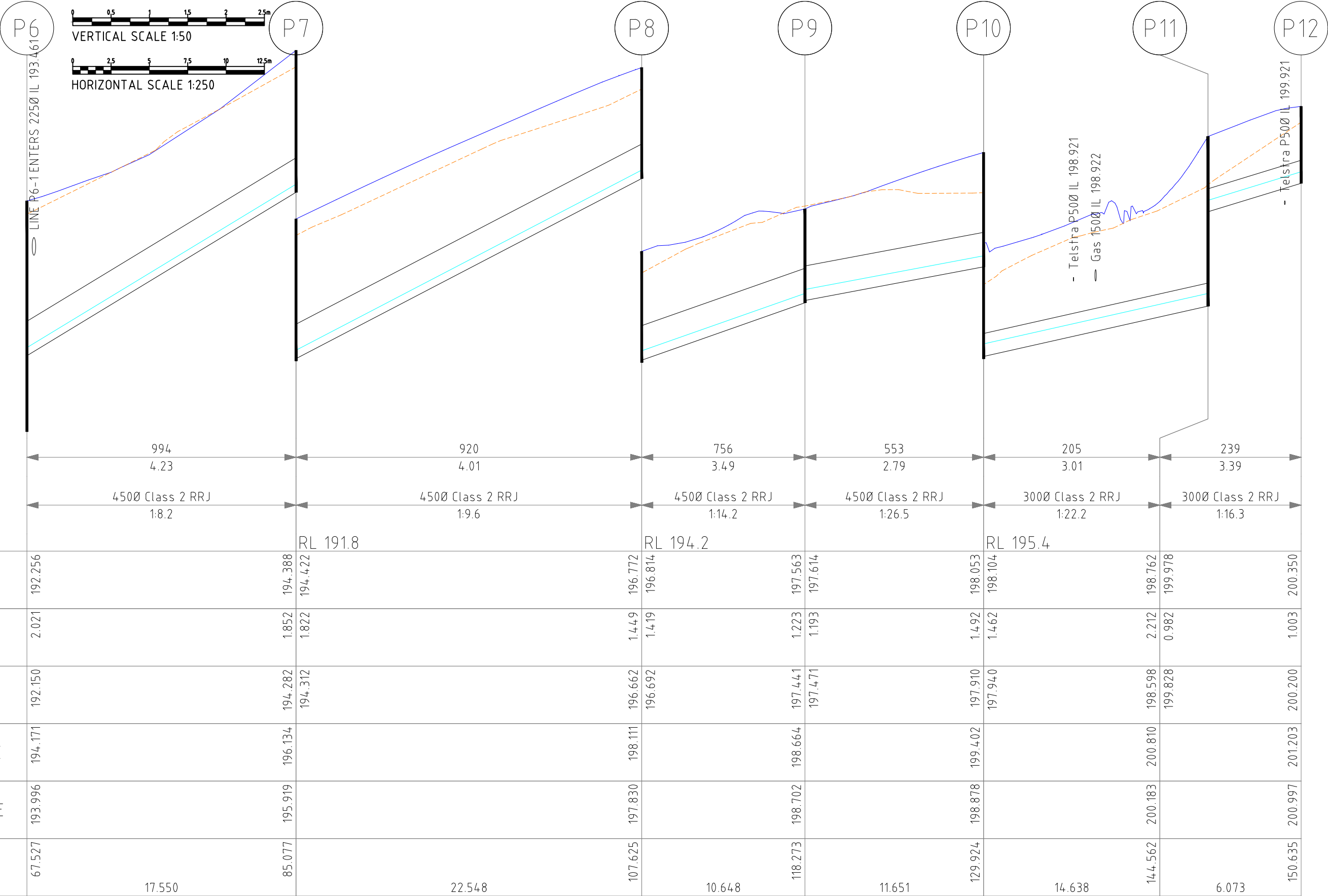
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			SEWER	EX ---S---	Checked:		Approved	20021 28			
			GAS MAINS	EX ---G---	Date:		Date:	Sheet			
			TELECOM CABLES AND FITTINGS	EX ---T---	Datum:		Ref:	Rev			
01.04.2021	A	SUBMITTED FOR COMMENTS	EXISTING KERB AND CHANNEL								28 OF 91
			PROPOSED KERB AND CHANNEL								A
			EXISTING DRAINS AND PITS								CCD Ref. No.
			PROPOSED DRAINS AND PITS								20021
			PROPOSED PROPERTY INLET								

DRAINAGE LONGITUDINAL SECTION

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

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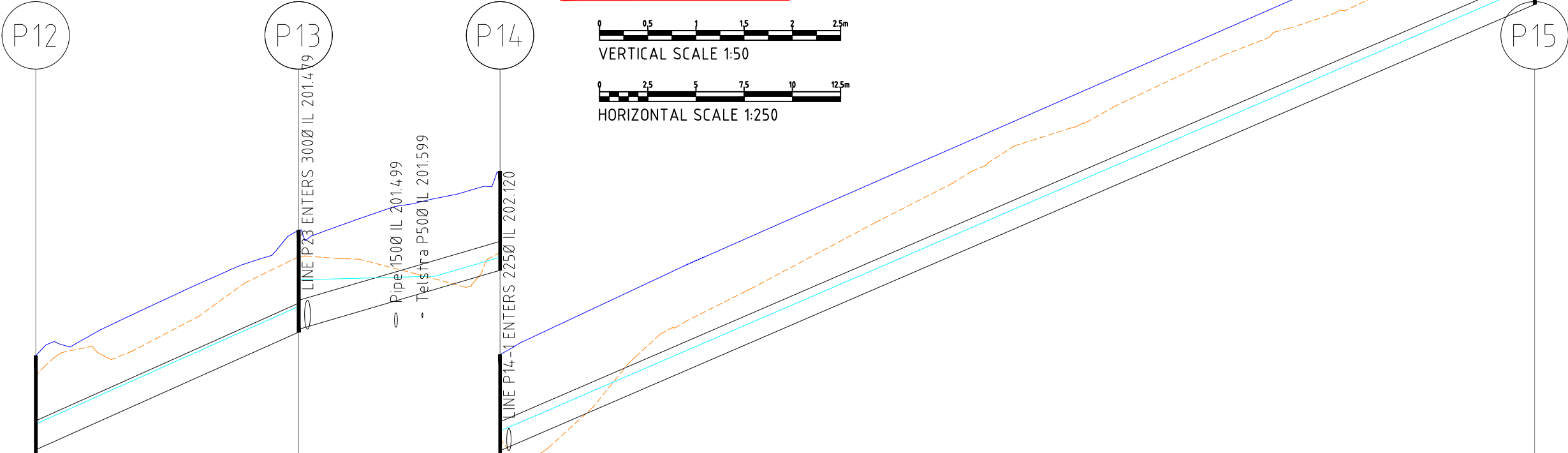
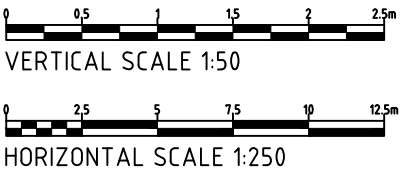
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CARDINIA SHIRE COUNCIL
CAROLINE AVENUE & BORONIA CRESCENT COCKATOO ROAD RECONSTRUCTION WORKS
DRAINAGE LONGITUDINAL SECTION

Drawing No	CCD.
20021	29
Sheet	29 OF 91
Rev	A
CCD Ref. No.	20021

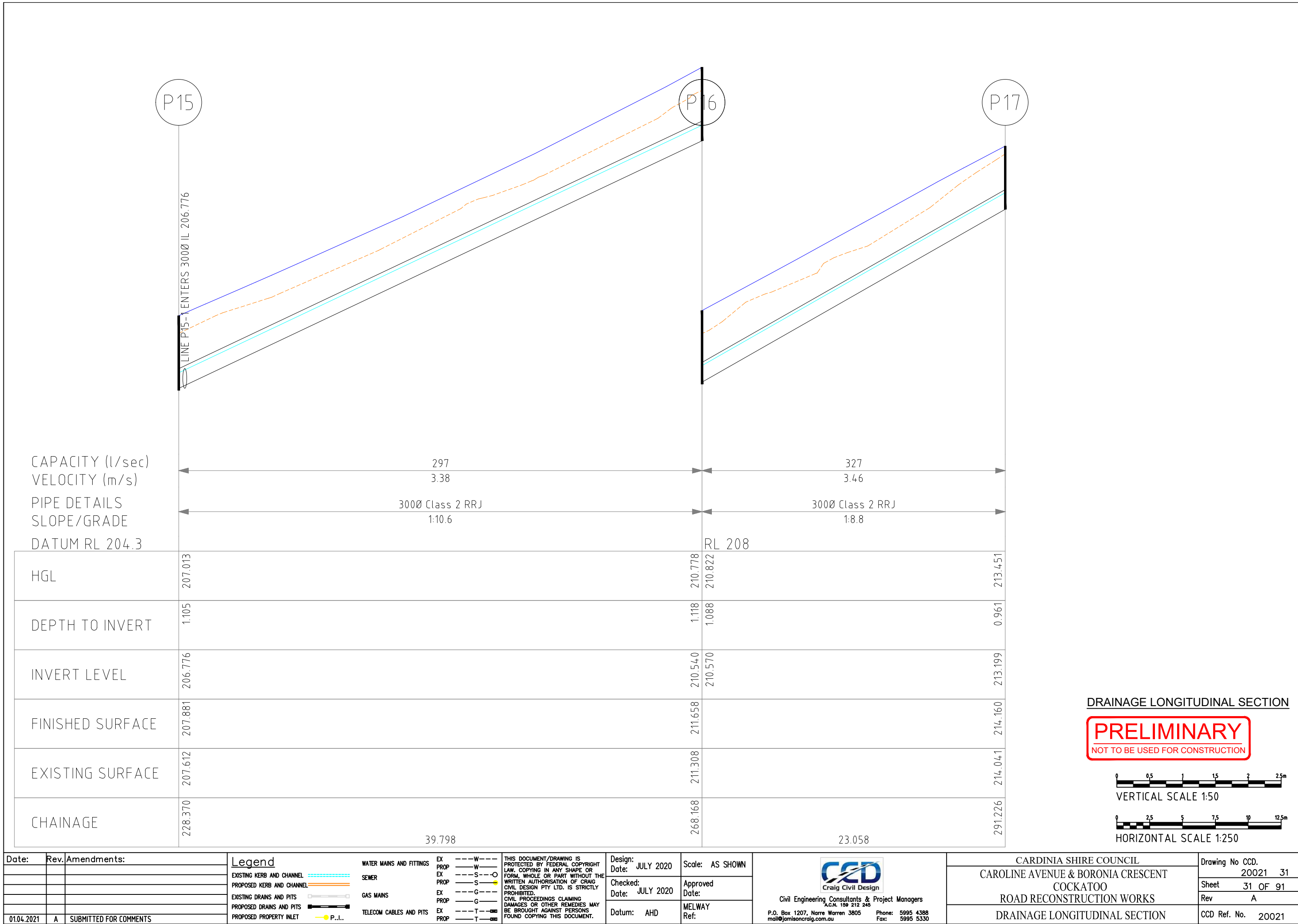
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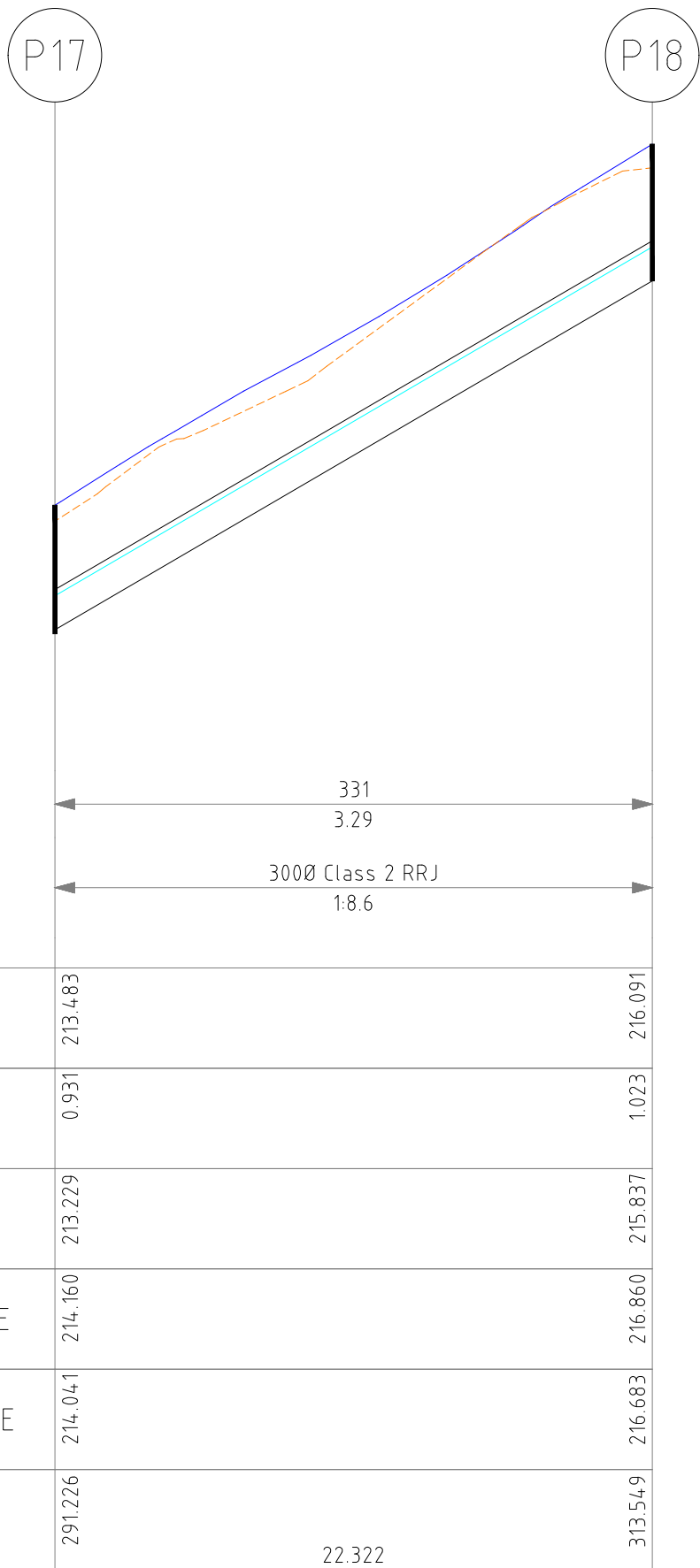
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CAPACITY (l/sec)	289	234	284
VELOCITY (m/s)	3.87	3.17	3.43
PIPE DETAILS	3000 Class 2 RRJ	3000 Class 2 RRJ	3000 Class 2 RRJ
SLOPE/GRADE	1:11.2	1:17.1	1:11.6
DATUM RL 197.7			RL 199.6

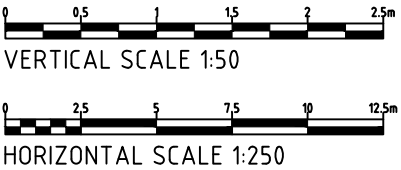
HGL	200.496	201.715 201.991	202.226 202.325	206.950
DEPTH TO INVERT	0.973	1.055 1.025	1.026 0.996	1.135
INVERT LEVEL	200.230	201.449 201.479	202.090 202.120	206.746
FINISHED SURFACE	201.203	202.504	203.116	207.881
EXISTING SURFACE	200.997	202.231	202.247	207.612
CHAINAGE	150.635	164.271	174.714	228.370
	13.636	10.443	53.655	




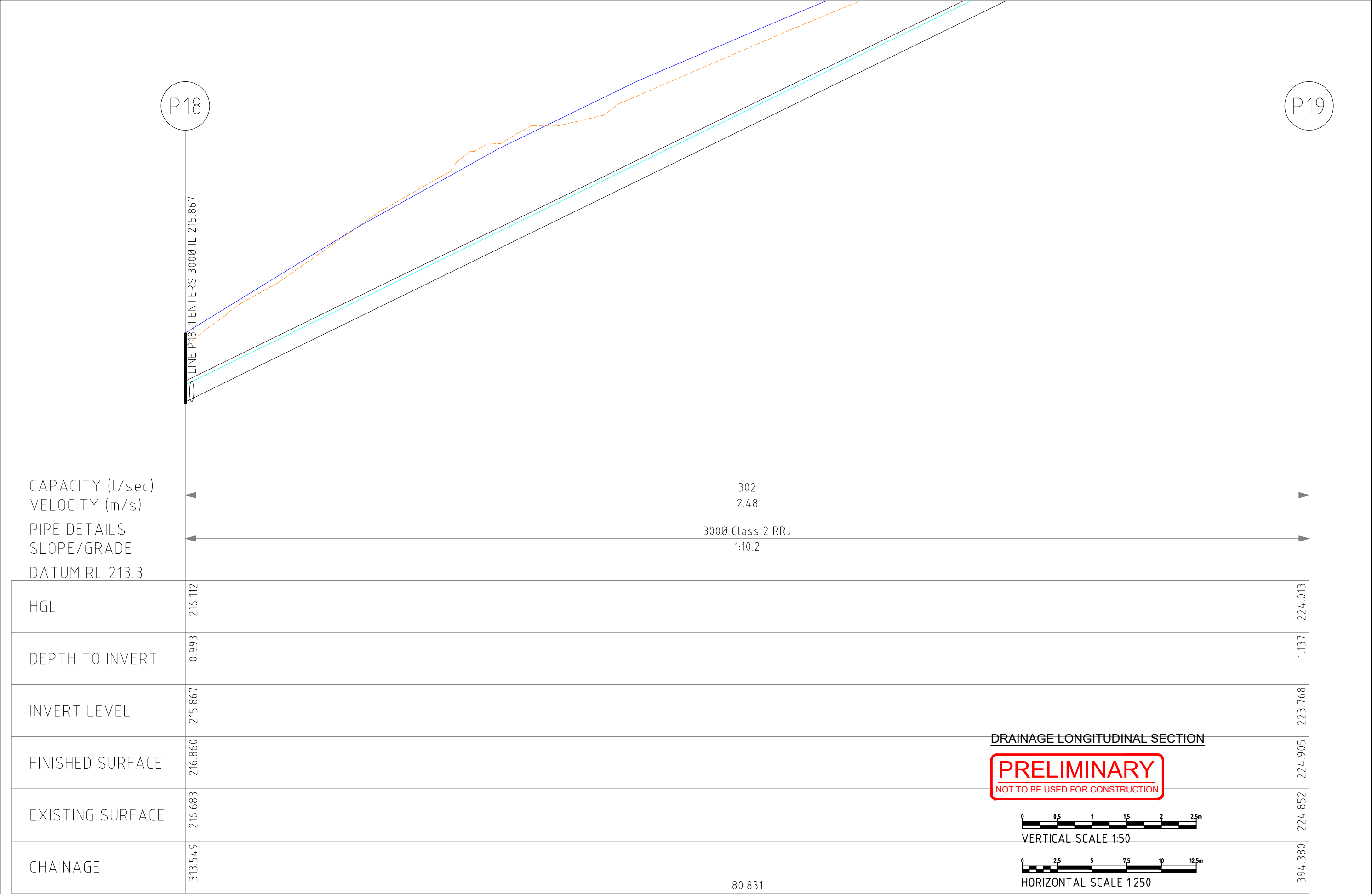



DRAINAGE LONGITUDINAL SECTION

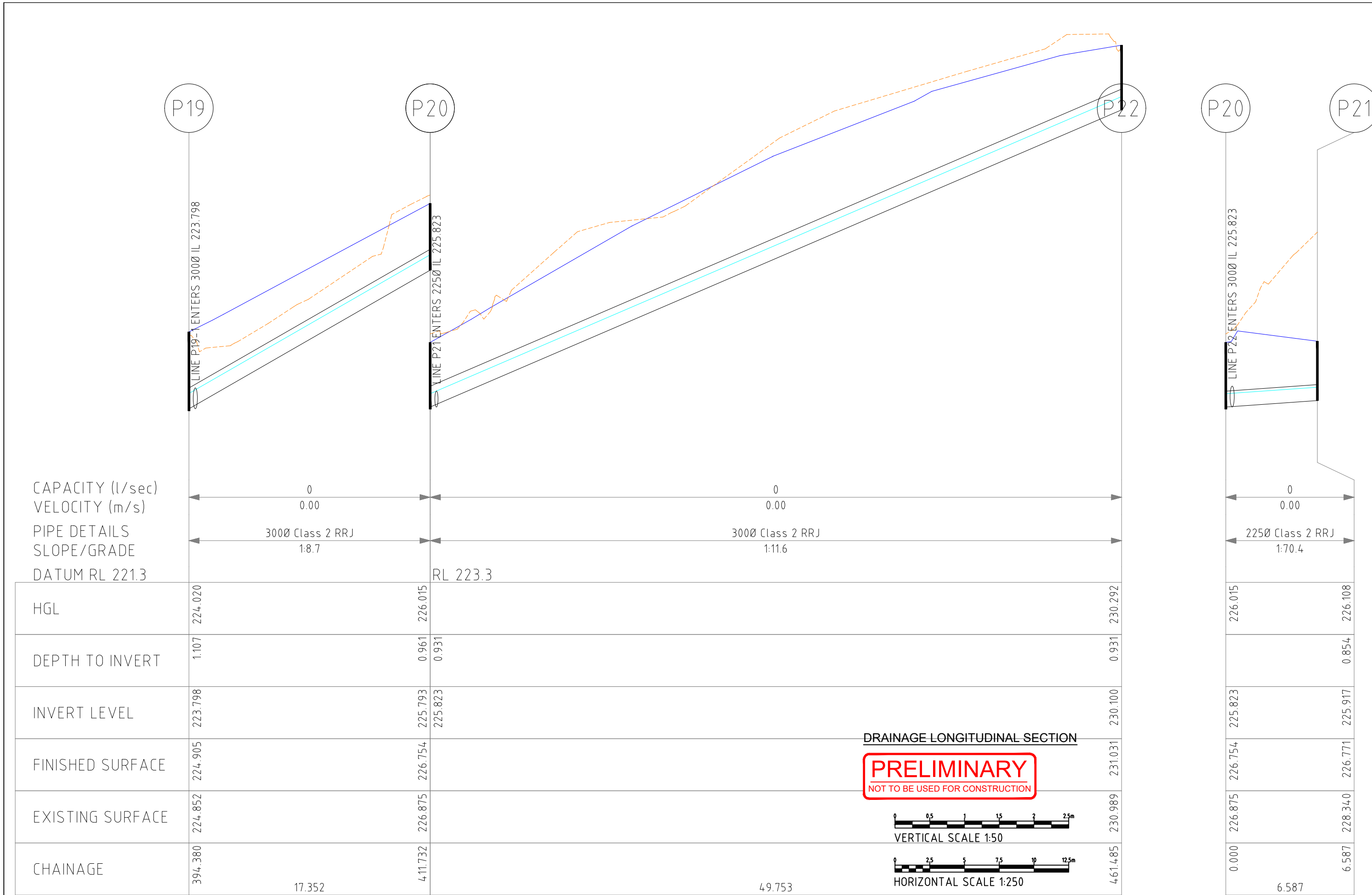
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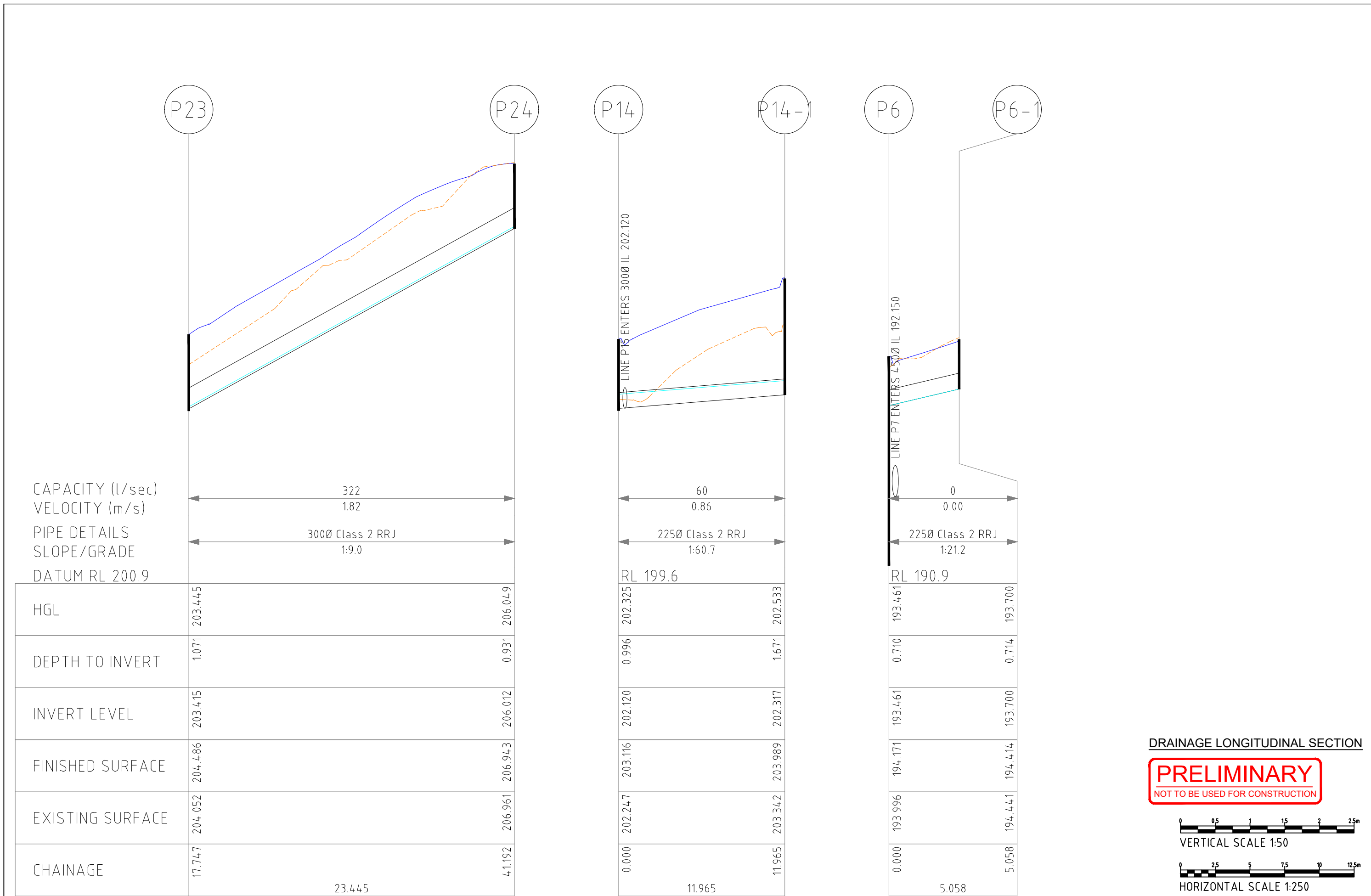
Date:	Rev.	Amendments:	<div>Legend</div> <div>EXISTING KERB AND CHANNEL</div> <div>PROPOSED KERB AND CHANNEL</div> <div>EXISTING DRAINS AND PITS</div> <div>PROPOSED DRAINS AND PITS</div> <div>PROPOSED PROPERTY INLET</div> <div>WATER MAINS AND FITTINGS</div> <div>SEWER</div> <div>GAS MAINS</div> <div>TELECOM CABLES AND PITS</div> <div>EX ---W---</div> <div>PROP ---W---</div> <div>EX ---S---○</div> <div>PROP ---S---</div> <div>EX ---G---</div> <div>PROP ---G---</div> <div>EX ---T---</div> <div>PROP ---T---</div> <div>THIS DOCUMENT/DRAWING IS PROTECTED BY FEDERAL COPYRIGHT LAW. COPYING IN ANY SHAPE OR FORM, WHOLE OR PART WITHOUT THE WRITTEN AUTHORISATION OF CRAIG CIVIL DESIGN PTY LTD. IS STRICTLY PROHIBITED. CIVIL PROCEEDINGS CLAIMING DAMAGES OR OTHER REMEDIES MAY BE BROUGHT AGAINST PERSONS FOUND COPYING THIS DOCUMENT.</div>	Design:	Scale:	<div></div> <div>Civil Engineering Consultants & Project Managers</div> <div>A.C.N. 159 212 245</div> <div>P.O. Box 1207, Narre Warren 3805</div> <div>Phone: 5995 4388</div> <div>mail@jamisoncraig.com.au</div> <div>Fax: 5995 5330</div>	CARDINIA SHIRE COUNCIL CAROLINE AVENUE & BORONIA CRESCENT COCKATOO ROAD RECONSTRUCTION WORKS DRAINAGE LONGITUDINAL SECTION	Drawing No. CCD. 20021 32 Sheet 32 OF 91 Rev A CCD Ref. No. 20021
				Checked:	Approved			
				Date:	Date:			
				Date:				
				Datum:	MELWAY			
				AHD	Ref:			



Date:	Rev.	Amendments:	Legend EXISTING KERB AND CHANNEL PROPOSED KERB AND CHANNEL EXISTING DRAINS AND PITS PROPOSED DRAINS AND PITS PROPOSED PROPERTY INLET P.I..	WATER MAINS AND FITTINGS	EX ---W--- PROP ---W---	THIS DOCUMENT/DRAWING IS PROTECTED BY FEDERAL COPYRIGHT LAW. COPYING IN ANY SHAPE OR FORM, WHOLE OR PART WITHOUT THE WRITTEN AUTHORISATION OF CRAIG CIVIL DESIGN PTY LTD. IS STRICTLY PROHIBITED. CIVIL PROCEEDINGS CLAIMING DAMAGES OR OTHER REMEDIES MAY BE BROUGHT AGAINST PERSONS FOUND COPYING THIS DOCUMENT.	Design: Date: JULY 2020	Scale: AS SHOWN	 Civil Engineering Consultants & Project Managers P.O. Box 1207, Narre Warren 3805 mail@jamisoncraig.com.au Phone: 5995 4388 Fax: 5995 5330	CARDINIA SHIRE COUNCIL CAROLINE AVENUE & BORONIA CRESCENT COCKATOO ROAD RECONSTRUCTION WORKS DRAINAGE LONGITUDINAL SECTION		Drawing No CCD. 20021 33
				SEWER	EX ---S--- PROP ---S---		Checked: Date: JULY 2020	Approved Date:		Sheet 33 OF 91		
				GAS MAINS	EX ---G--- PROP ---G---		Datum: AHD	MELWAY Ref:		Rev A		
01.04.2021	A	SUBMITTED FOR COMMENTS		TELECOM CABLES AND PITS	EX ---T--- PROP ---T---					CCD Ref. No. 20021		



Date:	Rev.	Amendments:	Legend		WATER MAINS AND FITTINGS		EX	---	W	---	THIS DOCUMENT/DRAWING IS PROTECTED BY FEDERAL COPYRIGHT LAW. COPYING IN ANY SHAPE OR FORM, WHOLE OR PART WITHOUT THE WRITTEN AUTHORISATION OF CRAIG CIVIL DESIGN PTY LTD. IS STRICTLY PROHIBITED. CIVIL PROCEEDINGS CLAIMING DAMAGES OR OTHER REMEDIES MAY BE BROUGHT AGAINST PERSONS FOUND COPYING THIS DOCUMENT.	Design:	Date: JULY 2020		Scale:	AS SHOWN		 Civil Engineering Consultants & Project Managers A.C.N. 159 212 245 P.O. Box 1207, Narre Warren 3805 mail@jamisoncraig.com.au	CARDINIA SHIRE COUNCIL		Drawing No CCD.
			EXISTING KERB AND CHANNEL		SEWER		EX	---	W	---		Checked:	Date: JULY 2020		Approved Date:				20021 34		
			PROPOSED KERB AND CHANNEL				EX	---	S	---									Sheet 34 OF 91		
			EXISTING DRAINS AND PITS		GAS MAINS		EX	---	G	---									Rev A		
			PROPOSED DRAINS AND PITS		TELECOM CABLES AND PITS		EX	---	G	---											
			PROPOSED PROPERTY INLET				EX	---	T	---									CCD Ref. No. 20021		
01.04.2021	A	SUBMITTED FOR COMMENTS					PROP	---	W	---		Datum:		AHD		MELWAY Ref:		5995 4388 5995 5330		DRAINAGE LONGITUDINAL SECTION	



DRAINAGE LONGITUDINAL SECTION

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Date:	Rev.	Amendments:
01.04.2021	A	SUBMITTED FOR COMMENTS

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

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Date:	JULY 2020
Checked:	Approved
Date:	Date:
Datum:	MELWAY
	Ref:



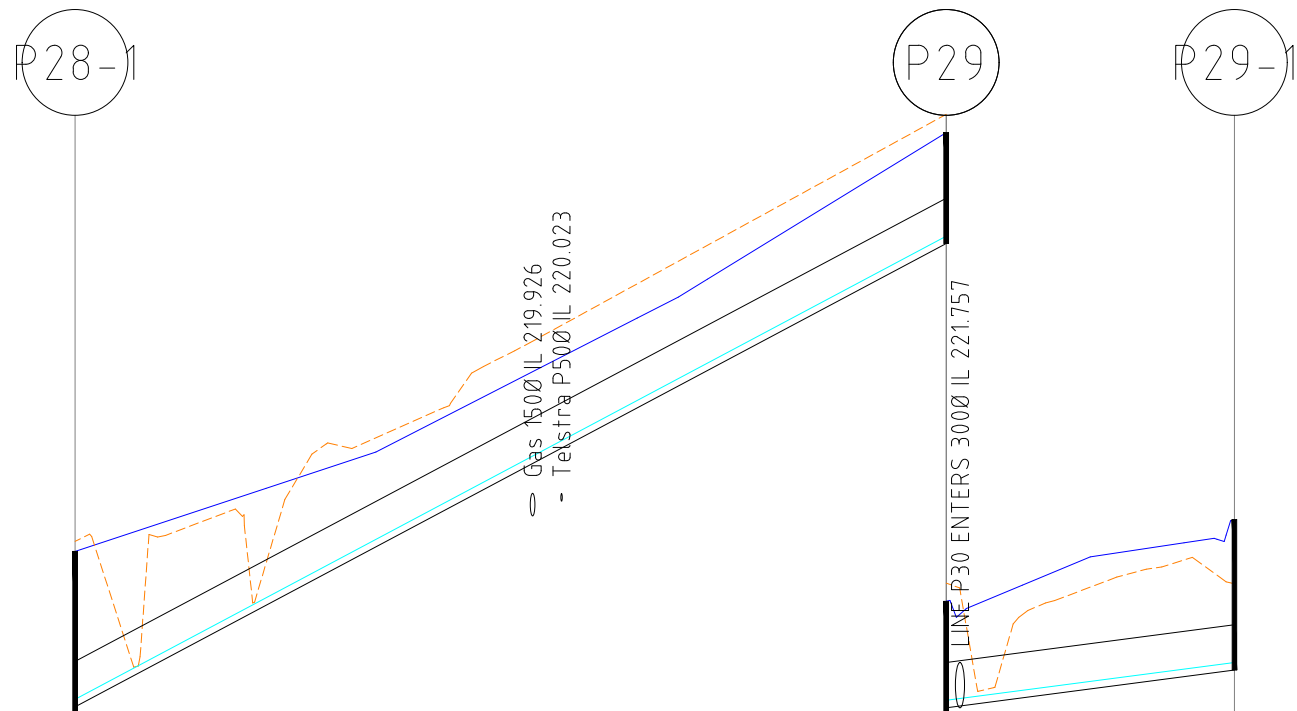
Craig Civil Design

Civil Engineering Consultants & Project Managers

P.O. Box 1207, Narre Warren 3805
mail@jamisoncraig.com.au

Phone: 5995 4388
Fax: 5995 5330

CARDINIA SHIRE COUNCIL	Drawing No. CCD.
CAROLINE AVENUE & BORONIA CRESCENT	20021 36
COCKATOO	Sheet 36 OF 91
ROAD RECONSTRUCTION WORKS	Rev A
DRAINAGE LONGITUDINAL SECTION	CCD Ref. No. 20021



CAPACITY (l/sec)
VELOCITY (m/s)
PIPE DETAILS
SLOPE/GRADE
DATUM RL 216.1

HGL	218.714	221.777	221.807	222.073
DEPTH TO INVERT	1.027	0.734	0.704	0.994
INVERT LEVEL	218.664	221.727	221.757	222.007
FINISHED SURFACE	219.691	222.461		223.001
EXISTING SURFACE	219.757	222.582		222.577
CHAINAGE	58.390	87.198	96.729	

28.808

9.531

DRAINAGE LONGITUDINAL SECTION


PRELIMINARY
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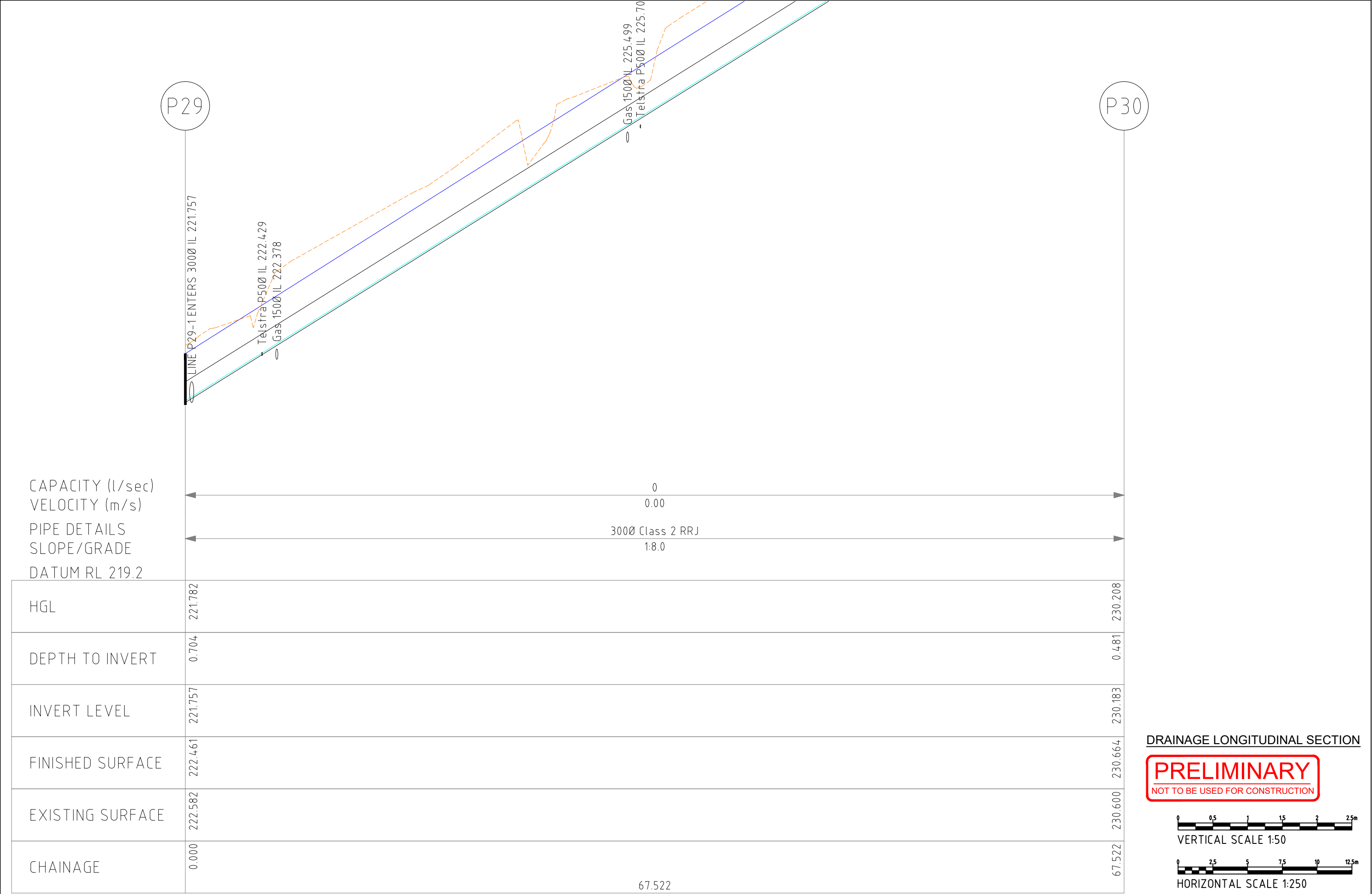


VERTICAL SCALE 1:50



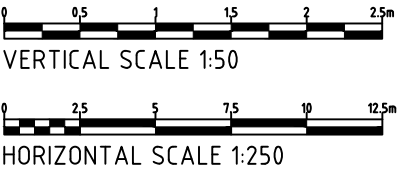
HORIZONTAL SCALE 1:250


Date:	Rev.	Amendments:	<div>Legend</div> <div>EXISTING KERB AND CHANNEL</div> <div>PROPOSED KERB AND CHANNEL</div> <div>EXISTING DRAINS AND PITS</div> <div>PROPOSED DRAINS AND PITS</div> <div>PROPOSED PROPERTY INLET</div>	WATER MAINS AND FITTINGS	EX ---W---	THIS DOCUMENT/DRAWING IS PROTECTED BY FEDERAL COPYRIGHT LAW. COPYING IN ANY SHAPE OR FORM, WHOLE OR PART WITHOUT THE WRITTEN AUTHORISATION OF CRAIG CIVIL DESIGN PTY LTD. IS STRICTLY PROHIBITED. CIVIL PROCEEDINGS CLAIMING DAMAGES OR OTHER REMEDIES MAY BE BROUGHT AGAINST PERSONS FOUND COPYING THIS DOCUMENT.	Design:	Scale:	<div></div> <div>Civil Engineering Consultants & Project Managers</div> <div>A.C.N. 159 212 245</div> <div>P.O. Box 1207, Narre Warren 3805</div> <div>mail@jamisoncraig.com.au</div> <div>Phone: 5995 4388</div> <div>Fax: 5995 5330</div>	CARDINIA SHIRE COUNCIL CAROLINE AVENUE & BORONIA CRESCENT COCKATOO ROAD RECONSTRUCTION WORKS DRAINAGE LONGITUDINAL SECTION	Drawing No
		SEWER		EX ---S---O	Date:		AS SHOWN	20021			
		GAS MAINS		EX ---G---	Checked:		Approved	38			
		TELECOM CABLES AND PITS		EX ---T---S	Date:		Date:	OF			
				PROP ---T---S	Datum:		MELWAY	91			
01.04.2021	A	SUBMITTED FOR COMMENTS					Ref:			Rev	
										A	
										CCD Ref. No.	
										20021	

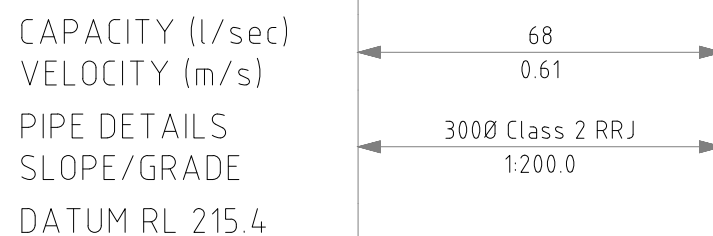


DRAINAGE LONGITUDINAL SECTION

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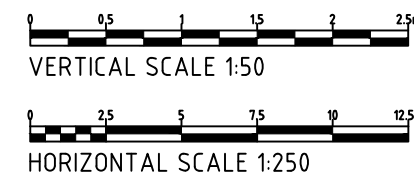



Date:	Rev.	Amendments:	Legend EXISTING KERB AND CHANNEL PROPOSED KERB AND CHANNEL EXISTING DRAINS AND PITS PROPOSED DRAINS AND PITS PROPOSED PROPERTY INLET P.I..	WATER MAINS AND FITTINGS SEWER GAS MAINS TELECOM CABLES AND PITS	EX ---W--- PROP ---W--- EX ---S--- PROP ---S--- EX ---G--- PROP ---G--- EX ---T--- PROP ---T---	THIS DOCUMENT/DRAWING IS PROTECTED BY FEDERAL COPYRIGHT LAW. COPYING IN ANY SHAPE OR FORM, WHOLE OR PART WITHOUT THE WRITTEN AUTHORISATION OF CRAIG CIVIL DESIGN PTY LTD. IS STRICTLY PROHIBITED. CIVIL PROCEEDINGS CLAIMING DAMAGES OR OTHER REMEDIES MAY BE BROUGHT AGAINST PERSONS FOUND COPYING THIS DOCUMENT.	Design:	Scale:	 Civil Engineering Consultants & Project Managers P.O. Box 1207, Narre Warren 3805 mail@jamisoncraig.com.au Phone: 5995 4388 Fax: 5995 5330	CARDINIA SHIRE COUNCIL CAROLINE AVENUE & BORONIA CRESCENT COCKATOO ROAD RECONSTRUCTION WORKS DRAINAGE LONGITUDINAL SECTION	Drawing No CCD.	
							Date: JULY 2020	AS SHOWN			20021 39	
							Checked:	Approved			Sheet	
							Date: JULY 2020	Date:			39 OF 91	
							Datum: AHD	MELWAY Ref:			Rev	
01.04.2021	A	SUBMITTED FOR COMMENTS									A	
												CCD Ref. No. 20021

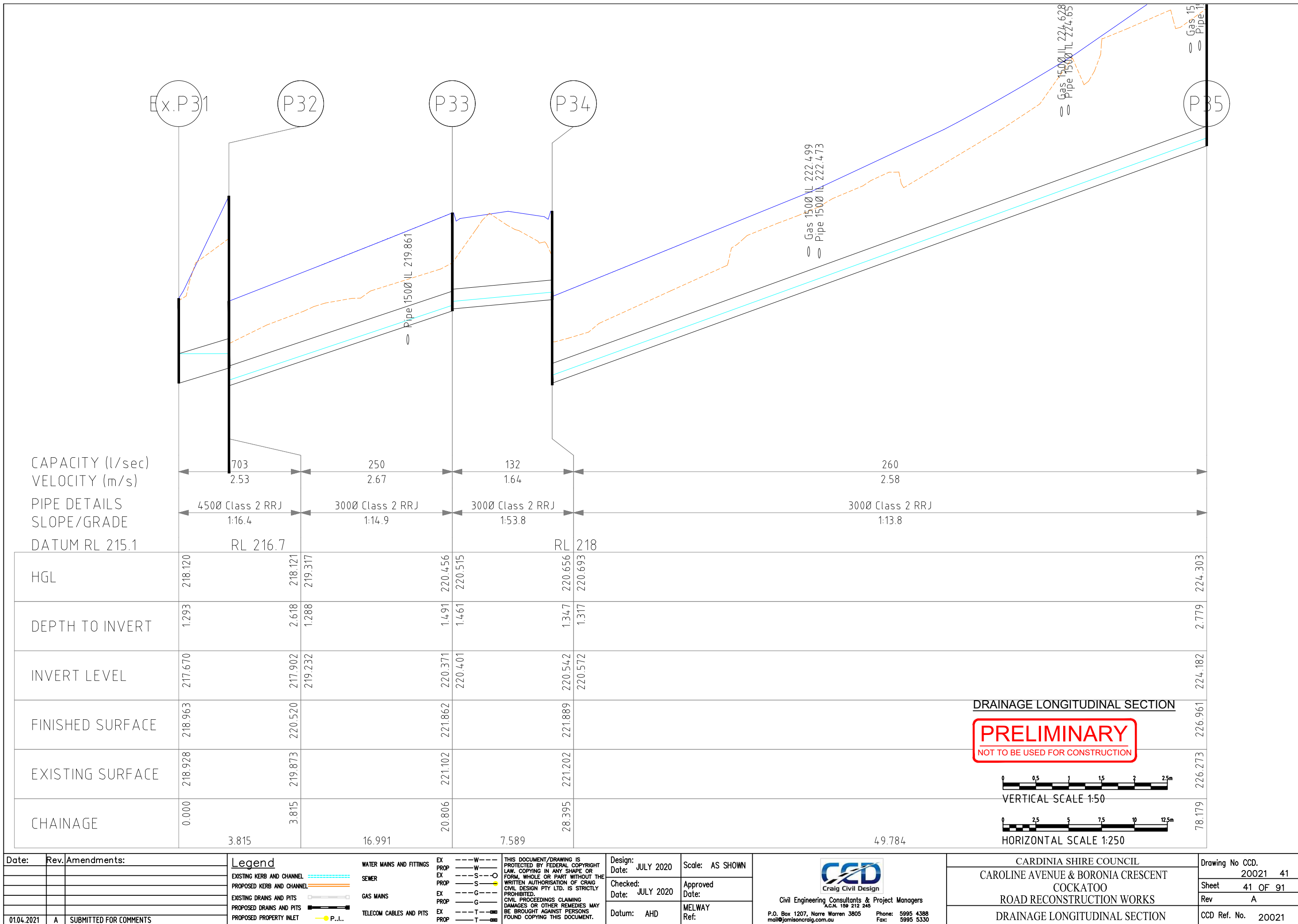


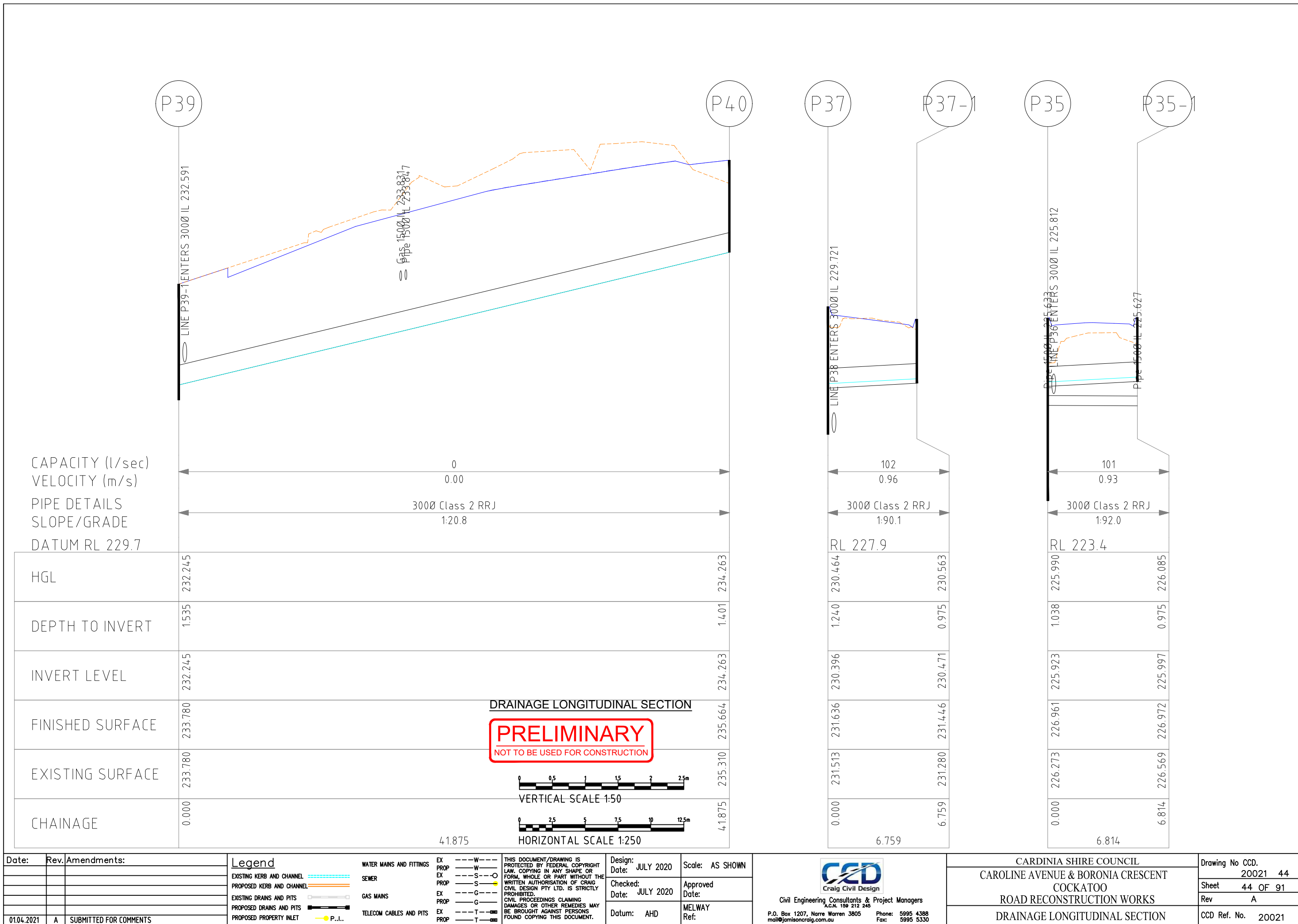
HGL	218.282	218.290
DEPTH TO INVERT	0.923	0.732
INVERT LEVEL	217.940	218.000
FINISHED SURFACE	218.863	218.733
EXISTING SURFACE	218.763	218.403
CHAINAGE	0.000	12.025

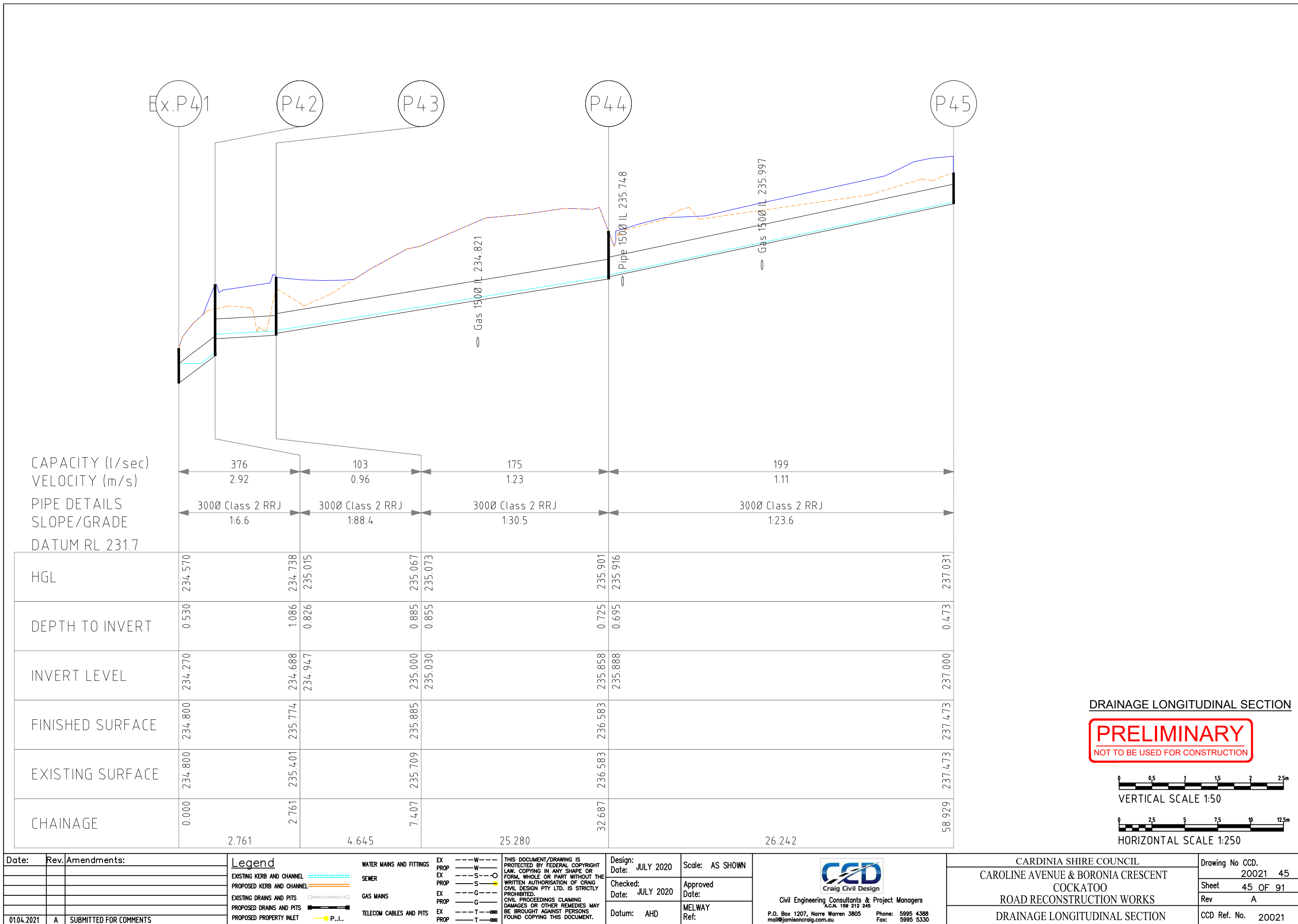
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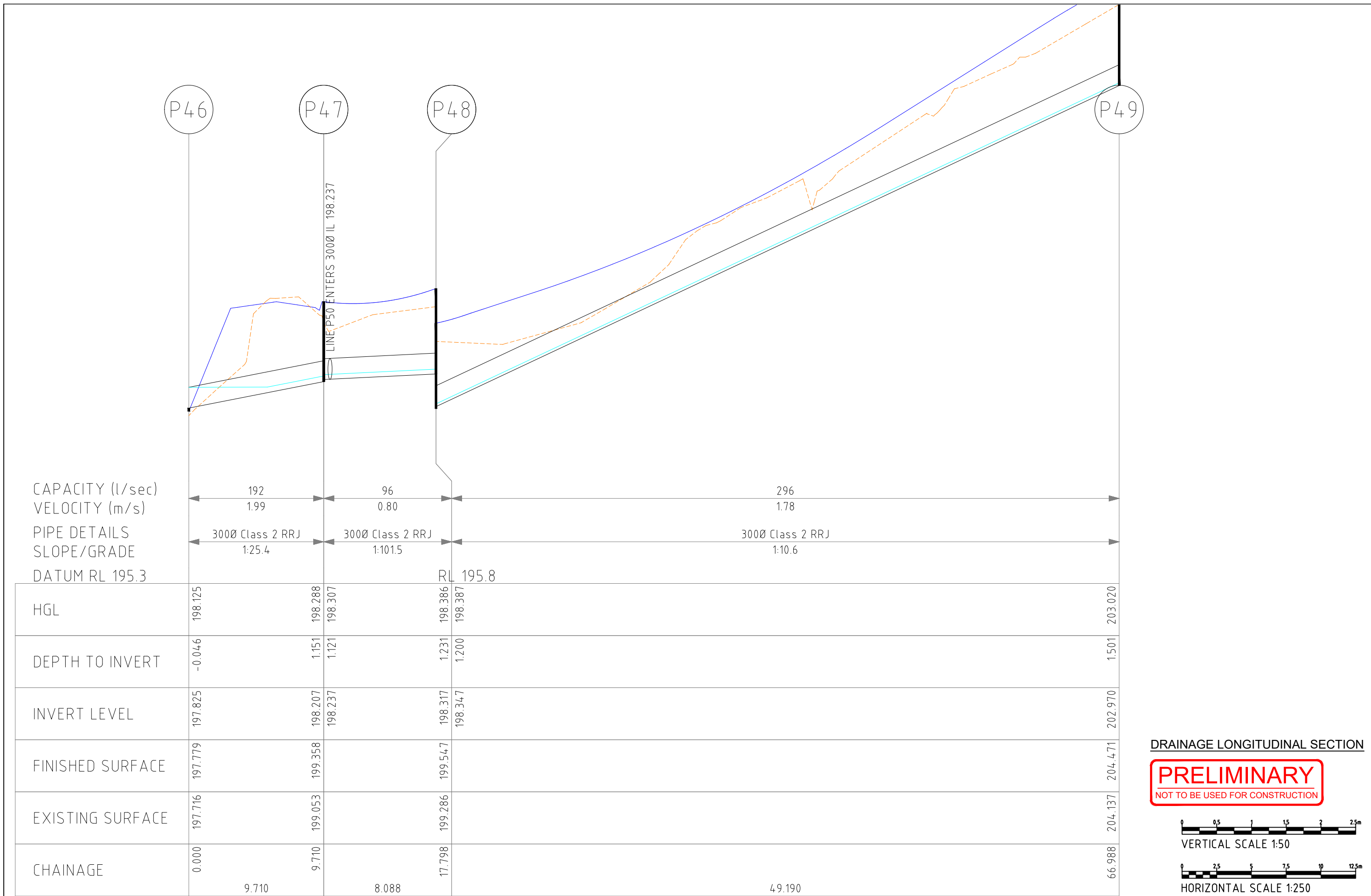


Date:	Rev.	Amendments:	Legend		WATER MAINS AND FITTINGS	EX ---W---	THIS DOCUMENT/DRAWING IS PROTECTED BY FEDERAL COPYRIGHT LAW. COPYING OR FORM, WHOLE OR PART WITHOUT THE WRITTEN AUTHORISATION OF CRAIG CIVIL DESIGN PTY LTD. IS STRICTLY PROHIBITED. CIVIL PROCEEDINGS CLAIMING DAMAGES OR OTHER REMEDIES MAY BE BROUGHT AGAINST PERSONS FOUND COPYING THIS DOCUMENT.	Design:	Scale:	<div> Civil Engineering Consultants & Project Managers ACN. 159 212 245 P.O. Box 1207, Narre Warren 3805 Email: jamison@craigcivil.com.au Phone: 5995 4388 Fax: 5995 5330</div>	CARDINIA SHIRE COUNCIL	Drawing No. CCD.
			EXISTING KERB AND CHANNEL	SEWER	PROP ---W---	EX ---S---○		Date: JULY 2020	AS SHOWN		CAROLINE AVENUE & BORONIA CRESCENT	20021 40
			PROPOSED KERB AND CHANNEL		EX ---S---	PROP ---S---		Checked:	Approved		COCKATOO	Sheet 40 OF 91
			EXISTING DRAINS AND PITS	GAS MAINS	EX ---G---	PROP ---G---		Date: JULY 2020	Date:		ROAD RECONSTRUCTION WORKS	Rev A
			PROPOSED DRAINS AND PITS	TELECOM CABLES AND PITS	EX ---T---	PROP ---T---		Datum: AHD	MELWAY Ref:		DRAINAGE LONGITUDINAL SECTION	CCD Ref. No. 20021
01.04.2021	A	SUBMITTED FOR COMMENTS	PROPOSED PROPERTY INLET		EX ---T---	PROP ---T---						



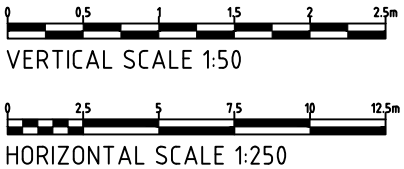


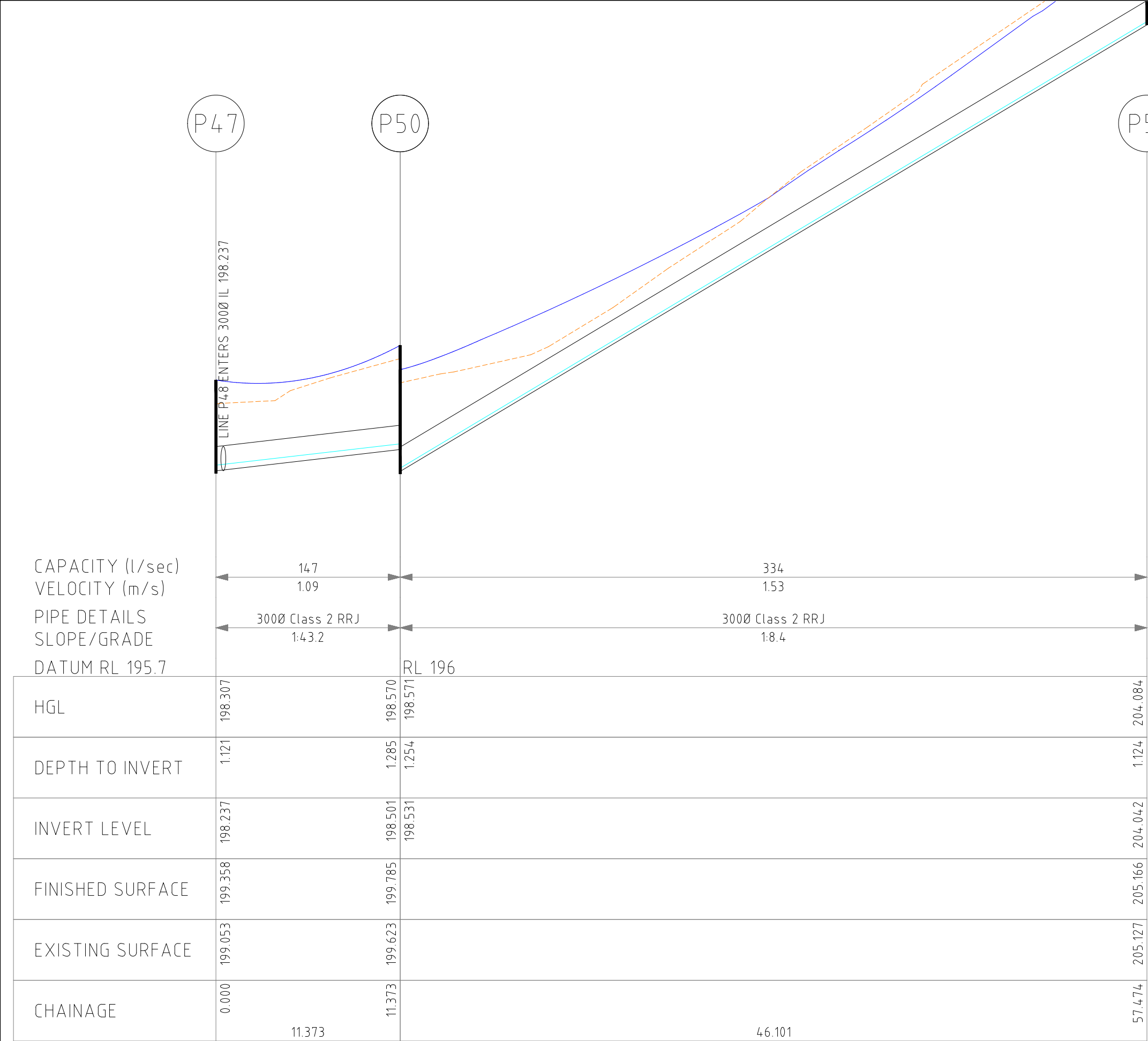




DRAINAGE LONGITUDINAL SECTION

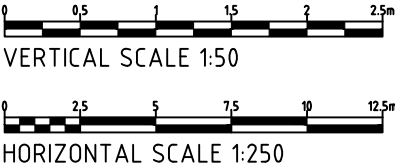
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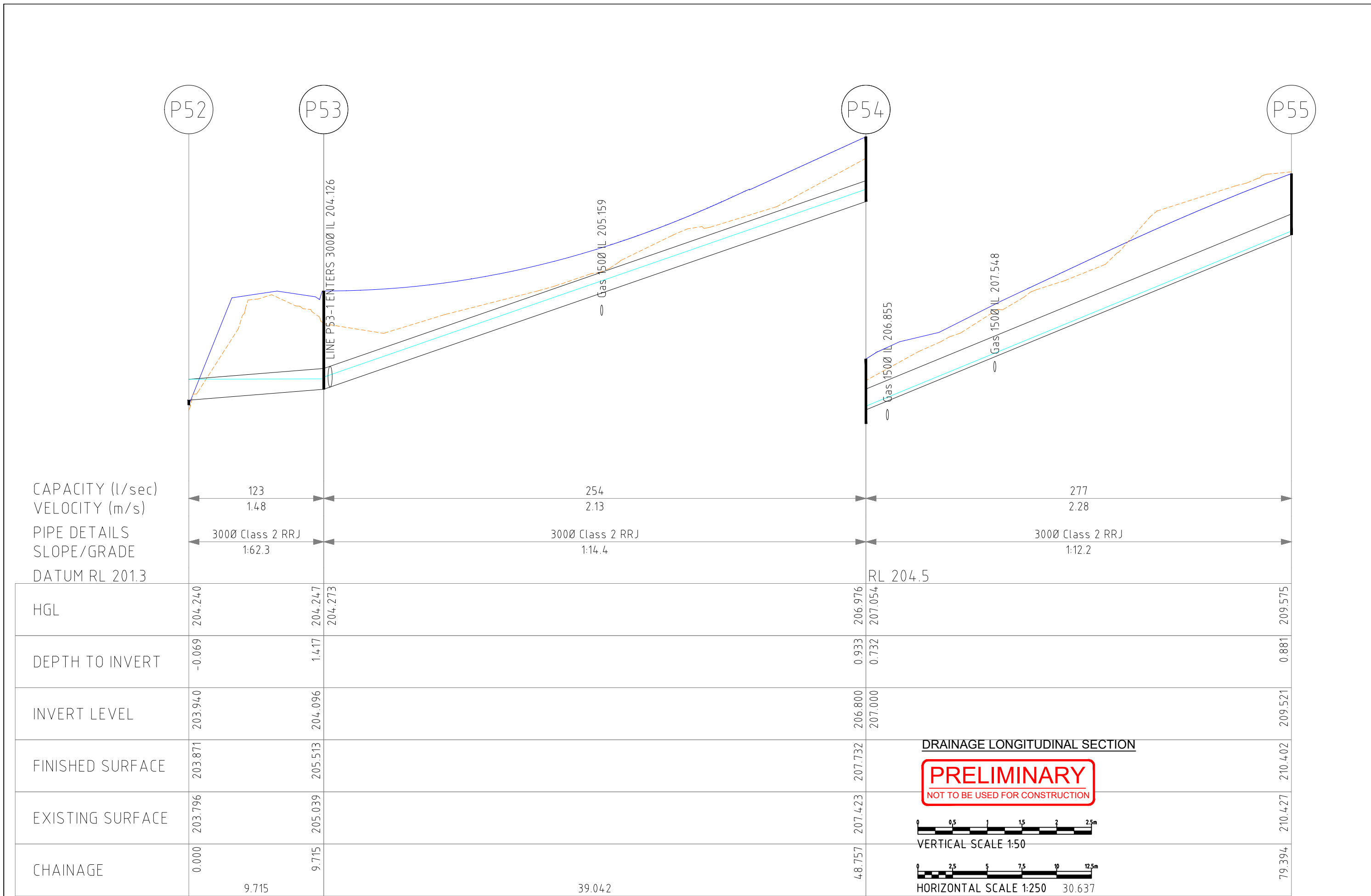



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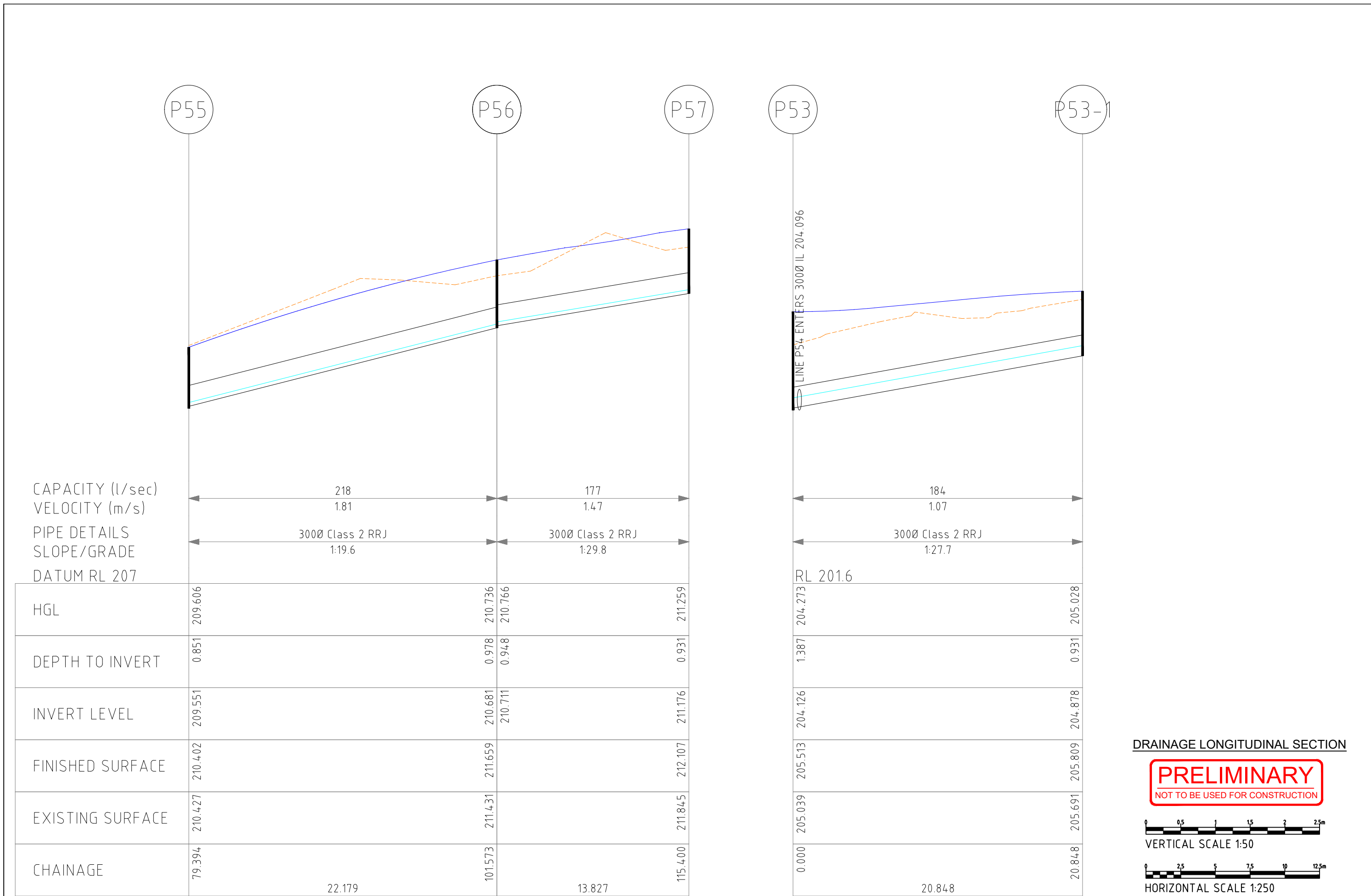
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Date:	Rev.	Amendments:	Legend		WATER MAINS AND FITTINGS	EX ---W--- PROP ---W--- EX ---S--- PROP ---S--- EX ---G--- PROP ---G--- EX ---T--- PROP ---T---	THIS DOCUMENT/DRAWING IS PROTECTED BY FEDERAL COPYRIGHT LAW. COPYING IN ANY SHAPE OR FORM, WHOLE OR PART WITHOUT THE WRITTEN AUTHORISATION OF CRAIG CIVIL DESIGN PTY LTD. IS STRICTLY PROHIBITED. CIVIL PROCEEDINGS CLAIMING DAMAGES OR OTHER REMEDIES MAY BE BROUGHT AGAINST PERSONS FOUND COPYING THIS DOCUMENT.	Design: JULY 2020	Scale: AS SHOWN	 Craig Civil Design Civil Engineering Consultants & Project Managers P.O. Box 1207, Narre Warren 3805 A.C.N. 199 212 245 Phone: 5995 4388 Fax: 5995 5330 mail@jamisoncraig.com.au	CARDINIA SHIRE COUNCIL CAROLINE AVENUE & BORONIA CRESCENT COCKATOO ROAD RECONSTRUCTION WORKS DRAINAGE LONGITUDINAL SECTION			Drawing No	CCD.	
			EXISTING KERB AND CHANNEL	SEWER	EX ---S--- PROP ---S--- EX ---G--- PROP ---G--- EX ---T--- PROP ---T---		Checked: JULY 2020	Approved Date:	20021		47					
			PROPOSED KERB AND CHANNEL		EX ---S--- PROP ---S--- EX ---G--- PROP ---G--- EX ---T--- PROP ---T---		Date: JULY 2020	MELWAY Ref:	Sheet		47 OF 91					
			EXISTING DRAINS AND PITS	GAS MAINS	EX ---S--- PROP ---S--- EX ---G--- PROP ---G--- EX ---T--- PROP ---T---				Rev		A					
01.04.2021	A	SUBMITTED FOR COMMENTS	PROPOSED DRAINS AND PITS	TELECOM CABLES AND PITS	EX ---S--- PROP ---S--- EX ---G--- PROP ---G--- EX ---T--- PROP ---T---				CCD Ref. No.		20021					
			PROPOSED PROPERTY INLET		EX ---S--- PROP ---S--- EX ---G--- PROP ---G--- EX ---T--- PROP ---T---											




Date:	Rev.	Amendments:	<div>Legend</div> <div>EXISTING KERB AND CHANNEL</div> <div>PROPOSED KERB AND CHANNEL</div> <div>EXISTING DRAINS AND PITS</div> <div>PROPOSED DRAINS AND PITS</div> <div>PROPOSED PROPERTY INLET</div> <div>WATER MAINS AND FITTINGS</div> <div>SEWER</div> <div>GAS MAINS</div> <div>TELECOM CABLES AND PITS</div>	EX ---W---	THIS DOCUMENT/DRAWING IS PROTECTED BY FEDERAL COPYRIGHT LAW. COPYING IN ANY SHAPE OR FORM, WHOLE OR PART WITHOUT THE WRITTEN AUTHORISATION OF CRAIG CIVIL DESIGN PTY LTD. IS STRICTLY PROHIBITED. CIVIL PROCEEDINGS CLAIMING DAMAGES OR OTHER REMEDIES MAY BE BROUGHT AGAINST PERSONS FOUND COPYING THIS DOCUMENT.	Design:	Scale:	<div></div> <div>Civil Engineering Consultants & Project Managers</div> <div>A.C.N. 159 212 245</div> <div>P.O. Box 1207, Narre Warren 3805</div> <div>Phone: 5995 4388</div> <div>mail@jamisoncraig.com.au</div> <div>Fax: 5995 5330</div>	CARDINIA SHIRE COUNCIL		Drawing No CCD.
				EX ---W---		DATE: JULY 2020	AS SHOWN		CAROLINE AVENUE & BORONIA CRESCENT		20021 48
				EX ---S---O		Checked:	Approved		COCKATOO		Sheet
				EX ---G---		Date:	Date:		ROAD RECONSTRUCTION WORKS		48 OF 91
				EX ---T---		Datum:	AHD		DRAINAGE LONGITUDINAL SECTION		Rev
01.04.2021	A	SUBMITTED FOR COMMENTS		EX ---T---		MELWAY			A		
				PROP ---T---		Ref:				CCD Ref. No. 20021	



DRAINAGE PIT SCHEDULE

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Date:	Rev.	Amendments:	Legend		WATER MAINS AND FITTINGS		EX ---W--- PROP ---W--- EX ---S--- PROP ---S--- EX ---G--- PROP ---G--- EX ---T--- PROP ---T---	THIS DOCUMENT/DRAWING IS PROTECTED BY FEDERAL COPYRIGHT LAW. COPYING IN ANY SHAPE OR FORM, WHOLE OR PART WITHOUT THE WRITTEN AUTHORISATION OF CRAIG CIVIL DESIGN PTY LTD. IS STRICTLY PROHIBITED. CIVIL PROCEEDINGS CLAIMING DAMAGES OR OTHER REMEDIES MAY BE BROUGHT AGAINST PERSONS FOUND COPYING THIS DOCUMENT.	Design:	Scale:	 Civil Engineering Consultants & Project Managers A.C.N. 159 212 245 P.O. Box 1207, Narre Warren 3805 mail@jamisoncraig.com.au Phone: 5995 4388 Fax: 5995 5330	CARDINIA SHIRE COUNCIL		Drawing No															
			EXISTING KERB AND CHANNEL		SEWER				Date:	AS SHOWN		20021																	
			PROPOSED KERB AND CHANNEL		GAS MAINS				Checked:	Approved		51																	
			EXISTING DRAINS AND PITS		TELECOM CABLES AND PITS				Date:	Date:		OF																	
			PROPOSED DRAINS AND PITS						Datum:	MELWAY		91																	
			PROPOSED PROPERTY INLET							Ref:		Rev																	
01.04.2021	A	SUBMITTED FOR COMMENTS													A														
															CCD Ref. No.														
															20021														

Pit Schedule - Drainage Alignment 1												
Pit No.	Pit Type	Pit Width	Pit Length	Outlet Diameter	Outlet Invert RL	Inlet Diameter	Inlet Invert RL	Pit Depth	Pit Lid Level	Easting	Northing	Comment
		(mm)	(mm)	(mm)	(m)	(mm)	(m)	(m)	(m)	(m)	(m)	
P1	EXISTING JUNCTION PIT	600	900		800x600 BC	300	198.760	1.266	200.026	367614.35	5800093.097	
P2	SIDE ENTRY PIT	600	900	300	198.810	300	198.840	1.160	199.970	367614.06	5800088.063	
P3	SIDE ENTRY PIT	600	900	300	198.923			1.022	199.945	367621.97	5800085.383	

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







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

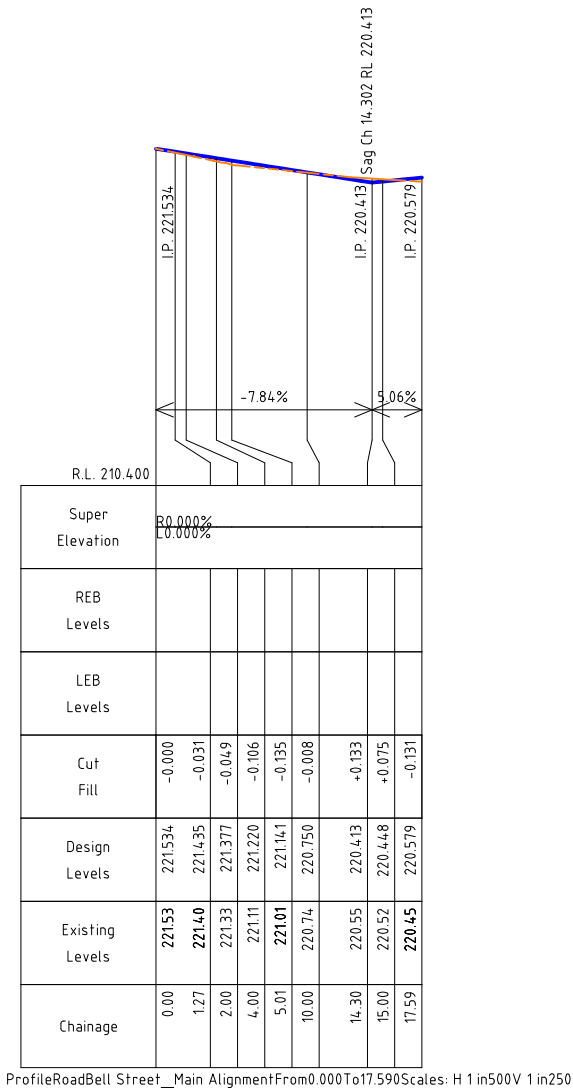
Pit Schedule - Drainage Network 6												
Pit No.	Pit Type	Pit Width	Pit Length	Outlet Diameter	Outlet Invert RL	Inlet Diameter	Inlet Invert RL	Pit Depth	Pit Lid Level	Easting	Northing	Comment
		(mm)	(mm)	(mm)	(m)	(mm)	(m)	(m)	(m)	(m)	(m)	
P46	CULVERT WITH HEADWALL					300	197.825			367580.24	5799905.960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

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

DRAINAGE PIT SCHEDULE

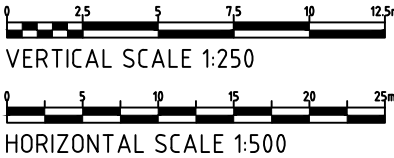
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			PROPOSED KERB AND CHANNEL			EX ---S-O	Checked:			Approved	Sheet					52 OF 91	
			EXISTING DRAINS AND PITS		GAS MAINS	PROP ---S---	Date:			Date:	Rev					A	
			PROPOSED DRAINS AND PITS			EX ---G---	EX ---G---			Datum:	MELWAY					CCD Ref. No.	20021
01.04.2021	A	SUBMITTED FOR COMMENTS	PROPOSED PROPERTY INLET		TELECOM CABLES AND PITS	EX ---T---	EX ---T---			AHD	Ref:						

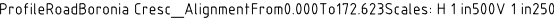


BELL ST LONGITUDINAL SECTION

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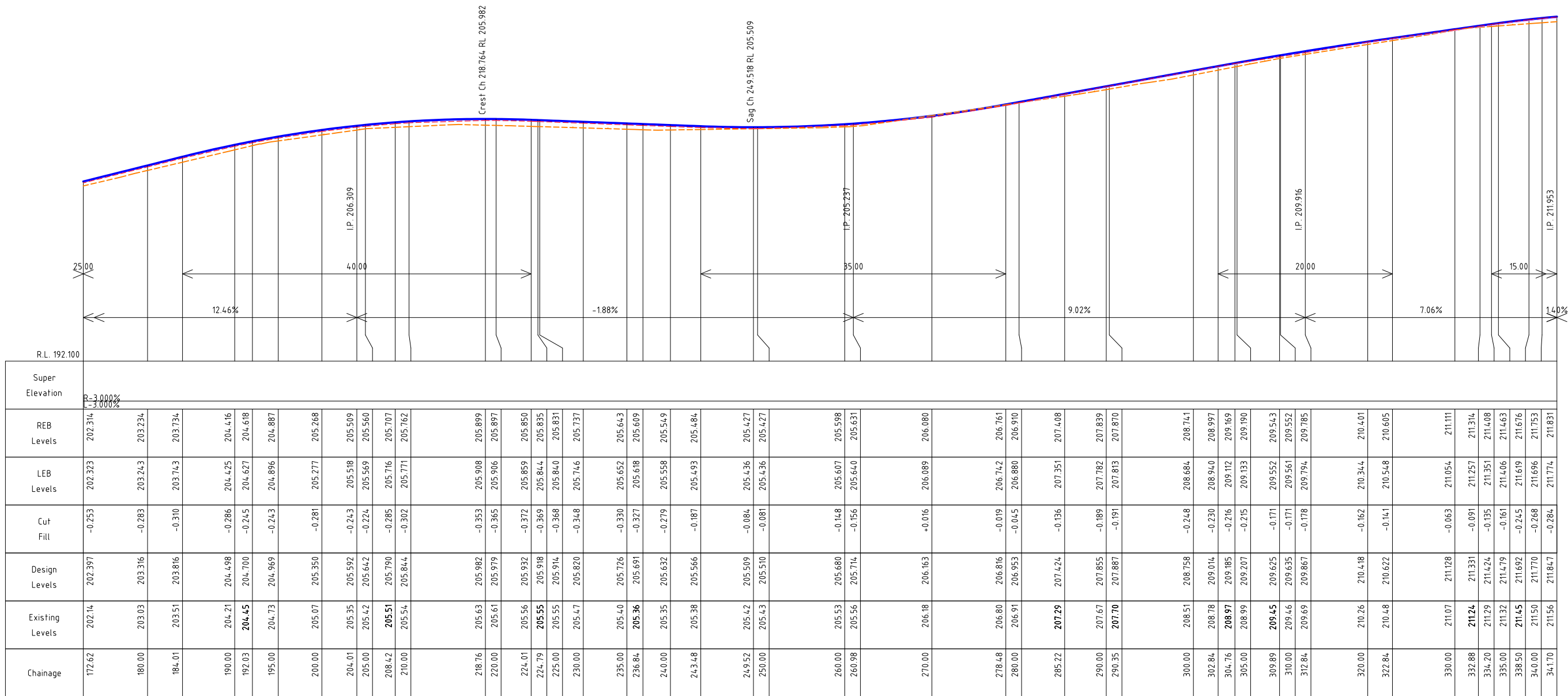
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			PROPOSED KERB AND CHANNEL		GAS MAINS	EX ---S---○		Checked: JULY 2020			COCKATOO		Sheet 53 OF 91
			EXISTING DRAINS AND PITS		TELECOM CABLES AND PITS	PROP ---S---		Datum: AHD	MELWAY Ref:		ROAD RECONSTRUCTION WORKS		Rev A
01.04.2021	A	SUBMITTED FOR COMMENTS	PROPOSED DRAINS AND PITS			EX ---G---					BELL ST LONGITUDINAL SECTION		CCD Ref. No. 20021
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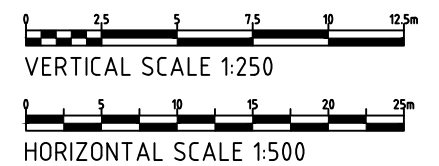



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				EX ---W--- PROP ---W--- EX ---S--- PROP ---S--- EX ---G--- PROP ---G--- EX ---T--- PROP ---T---					COCKATOO	Sheet 54 OF 91
				EX ---W--- PROP ---W--- EX ---S--- PROP ---S--- EX ---G--- PROP ---G--- EX ---T--- PROP ---T---					ROAD RECONSTRUCTION WORKS	Rev A
01.04.2021	A	SUBMITTED FOR COMMENTS		EX ---W--- PROP ---W--- EX ---S--- PROP ---S--- EX ---G--- PROP ---G--- EX ---T--- PROP ---T---					BORONIA CRESC LONGITUDINAL SECTION	CCD Ref. No. 20021

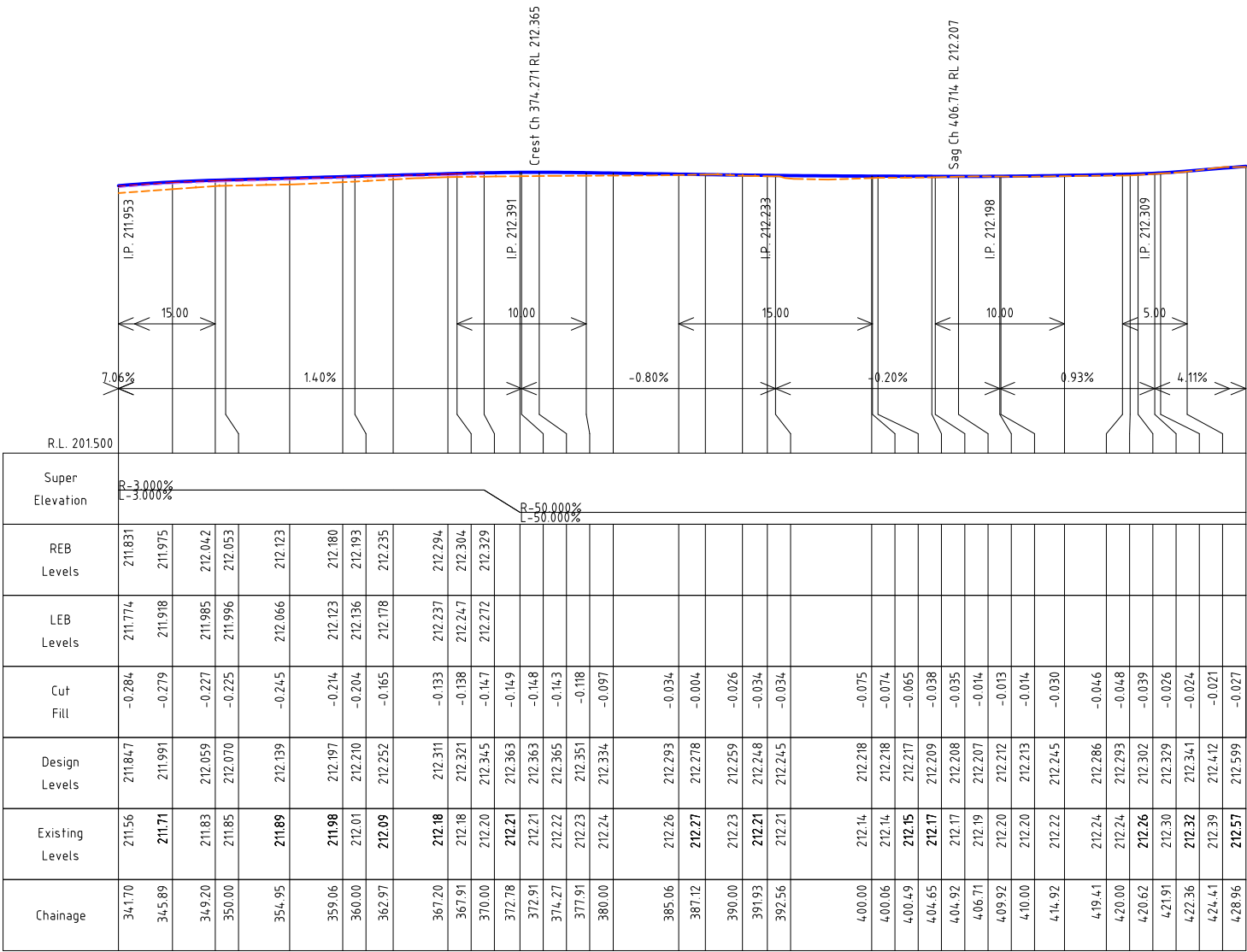


BORONIA CRESCENT LONGITUDINAL SECTION

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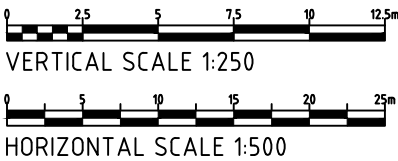



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01.04.2021	A	SUBMITTED FOR COMMENTS	

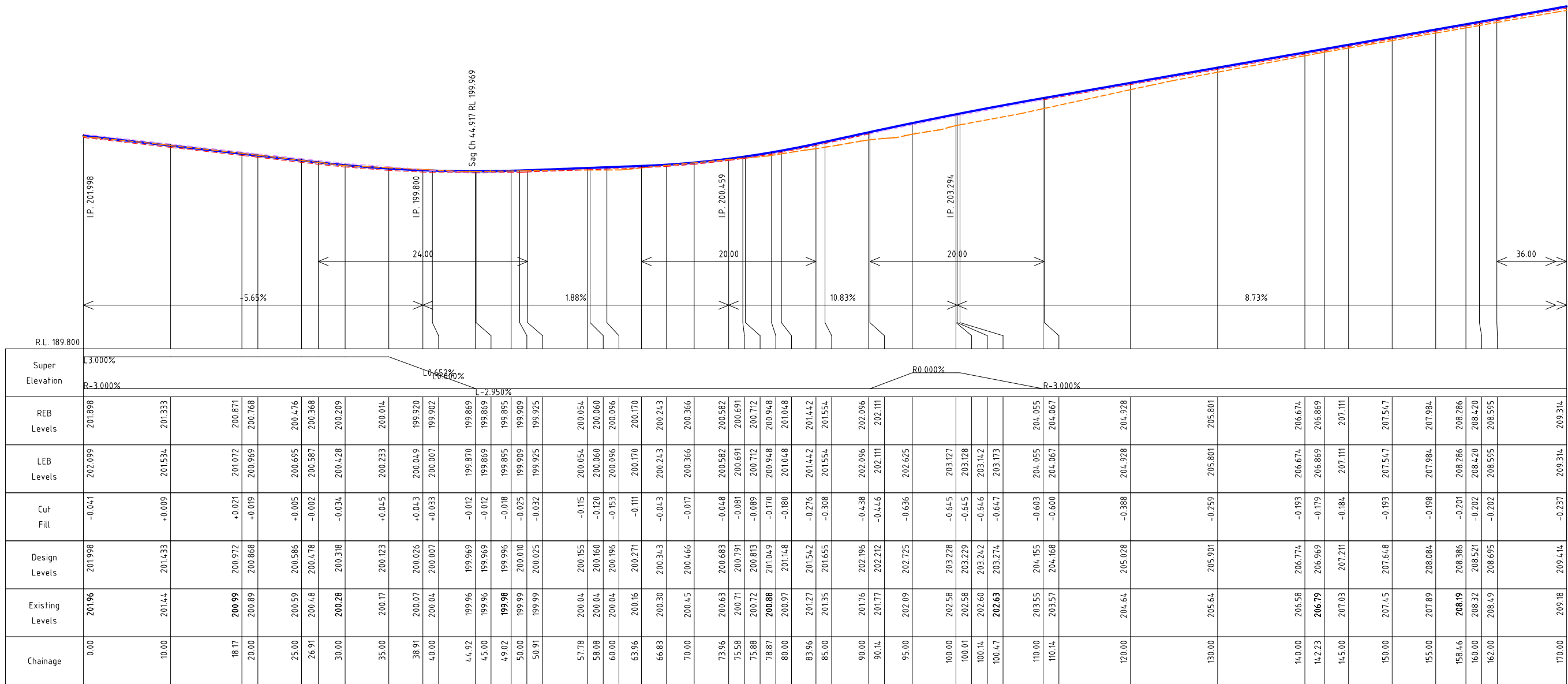


BORONIA CRESCENT LONGITUDINAL SECTION

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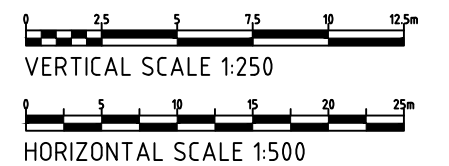


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01.04.2021	A	SUBMITTED FOR COMMENTS	PROPOSED DRAINS AND PITS				PROPOSED PROPERTY INLET		Datum:	MELWAY								
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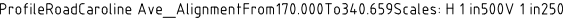


CAROLINE AVENUE LONGITUDINAL SECTION

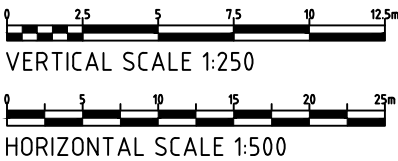
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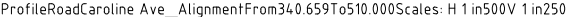
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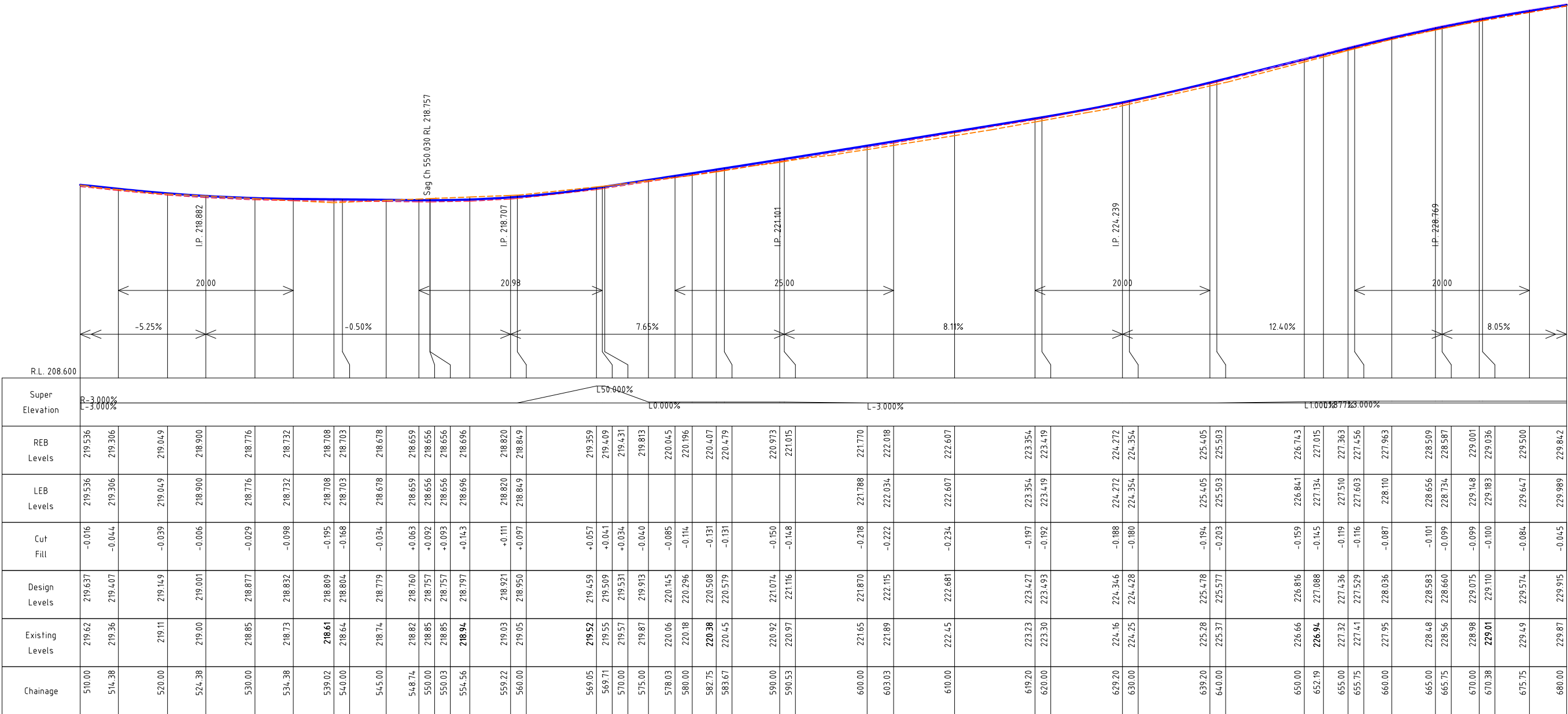
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01.04.2021	A	SUBMITTED FOR COMMENTS	PROPOSED PROPERTY INLET	TELECOM CABLES AND PITS	EX --- T--- PROP --- T---					CCD Ref. No. 20021	



CAROLINE AVENUE LONGITUDINAL SECTION


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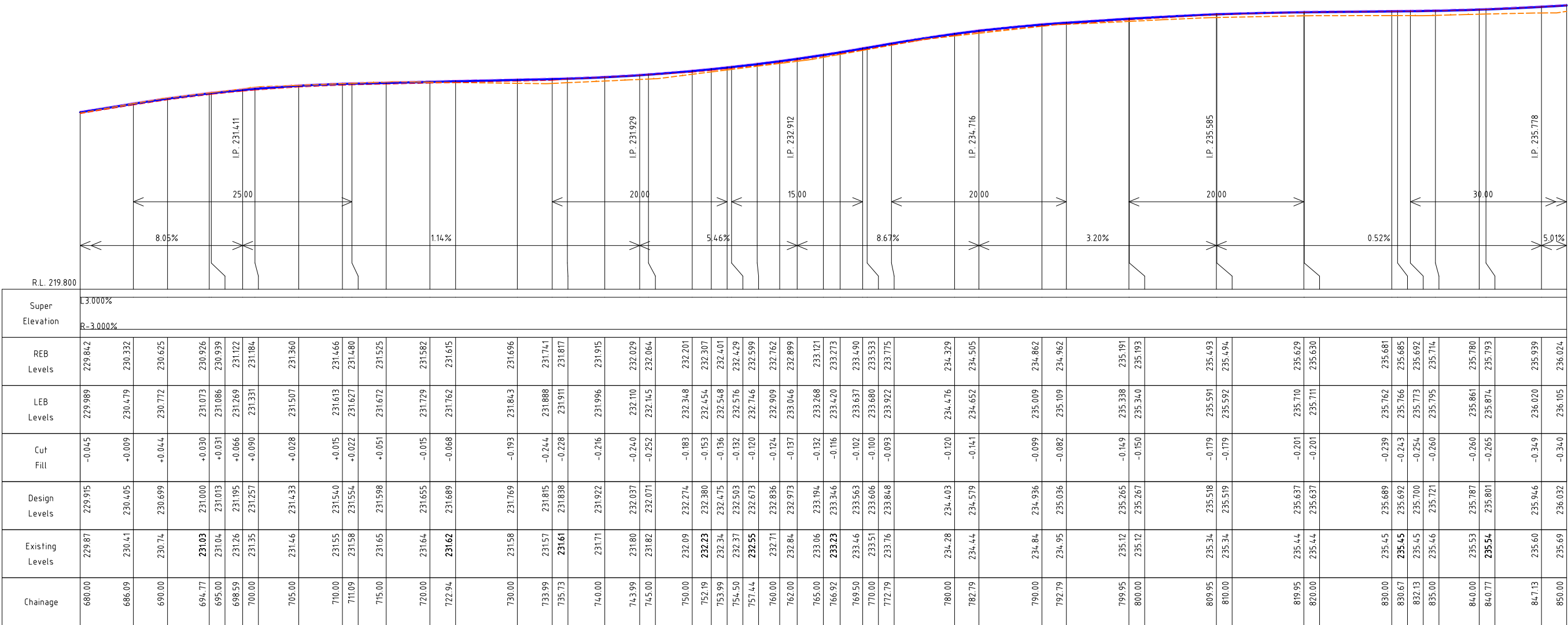


VERTICAL SCALE 1:250



HORIZONTAL SCALE 1:500

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				Date:				Date:	Rev	A
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CAROLINE AVENUE LONGITUDINAL SECTION

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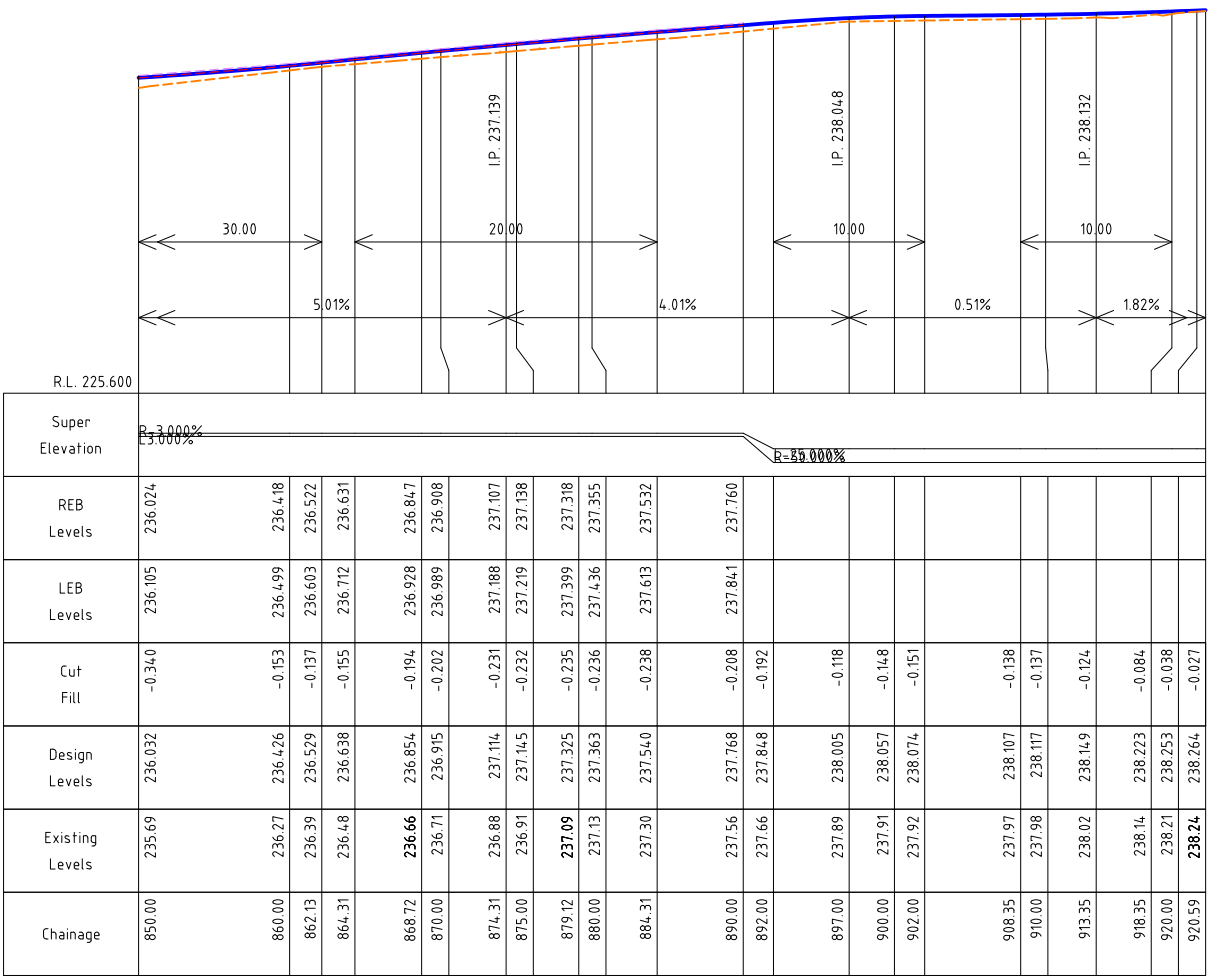


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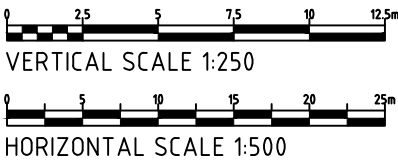
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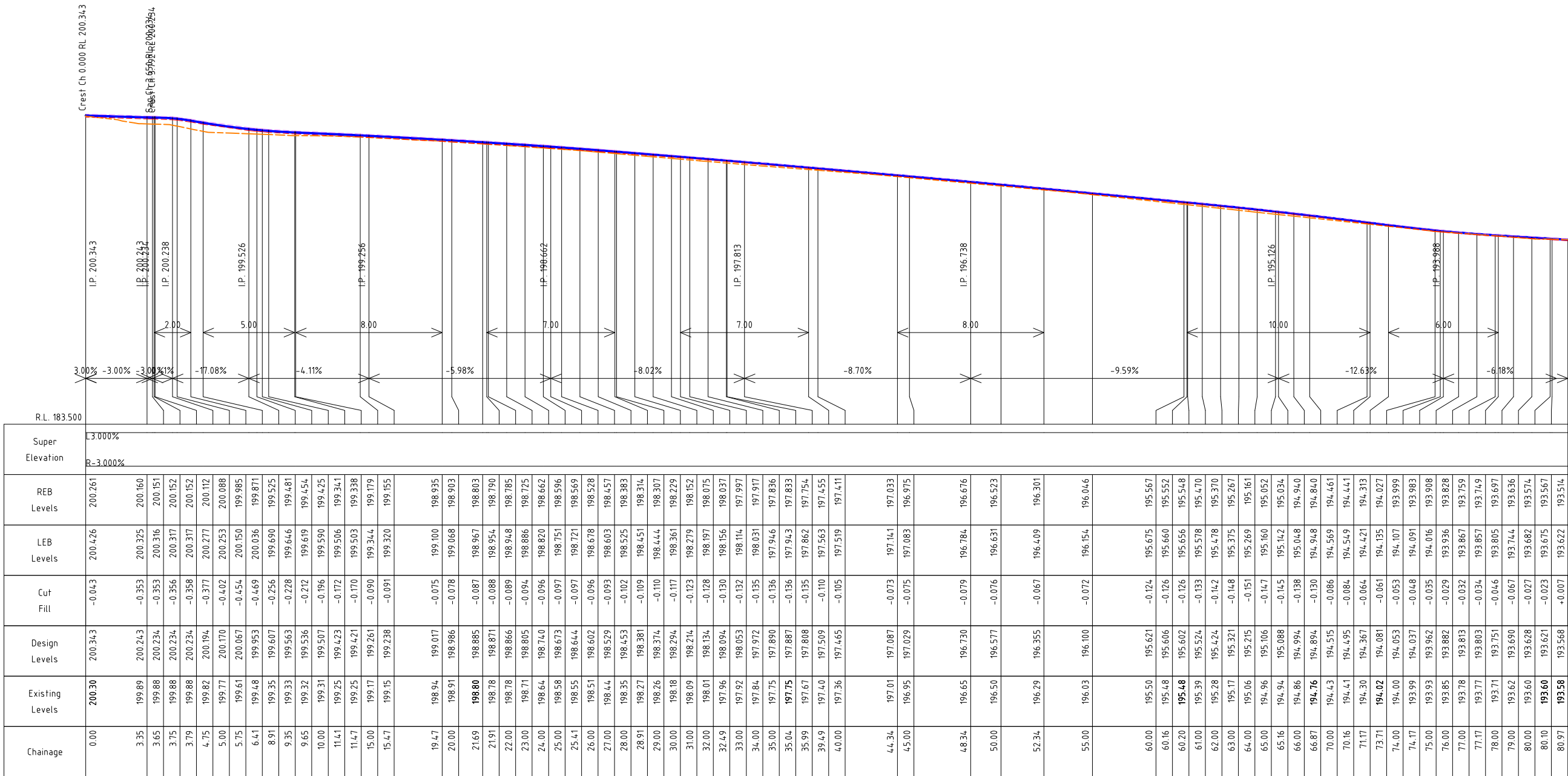
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									ROAD RECONSTRUCTION WORKS	Rev A	
01.04.2021	A	SUBMITTED FOR COMMENTS				Datum: AHD	MELWAY Ref:		CAROLINE AVE LONGITUDINAL SECTION	CCD Ref. No. 20021	



ROUEN ROAD LONGITUDINAL SECTION

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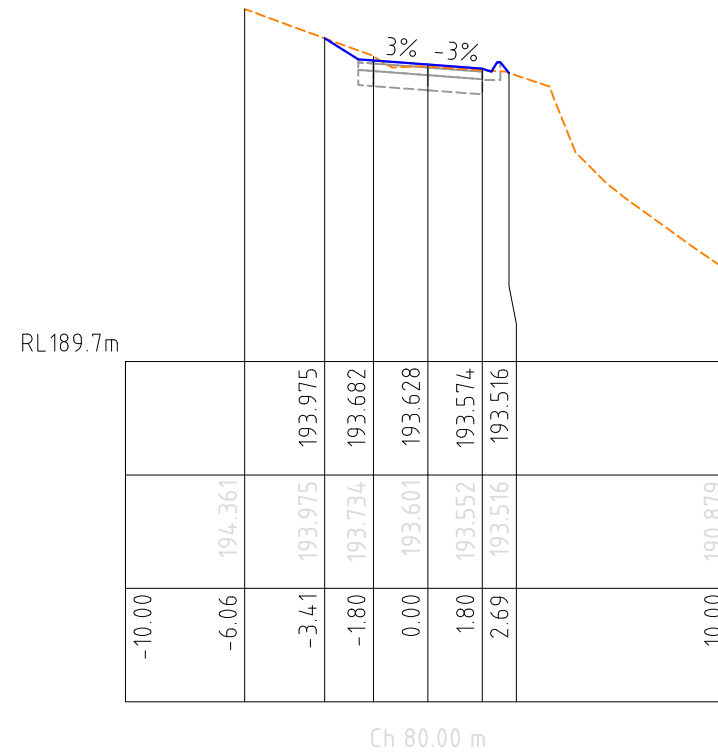
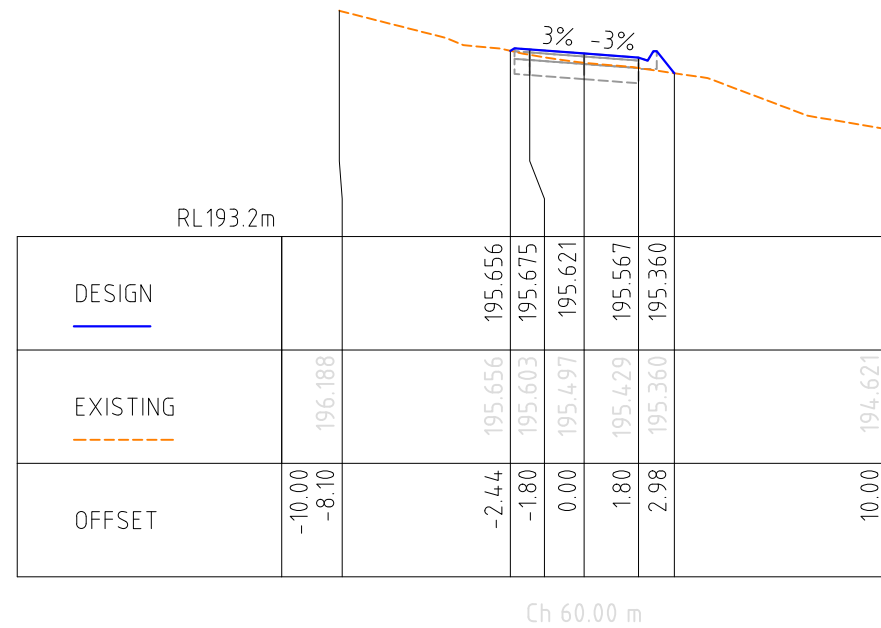
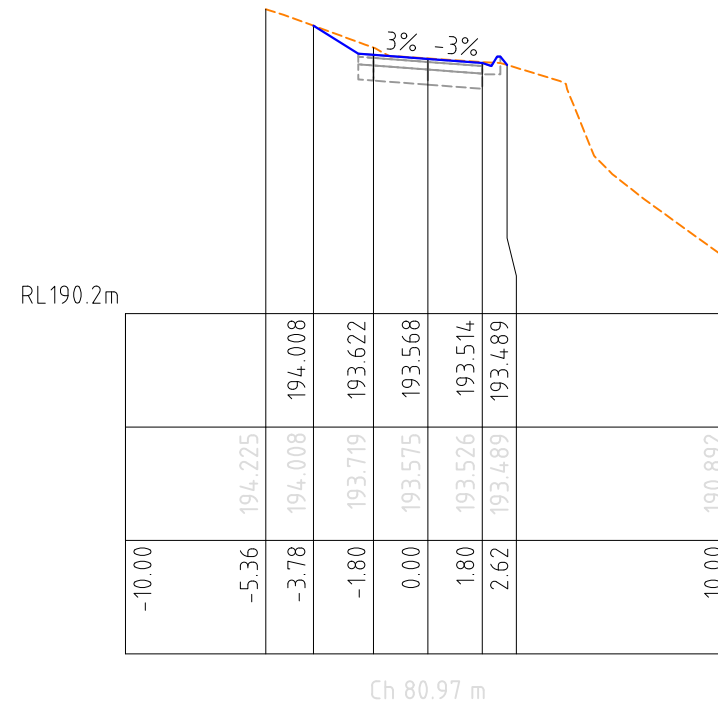
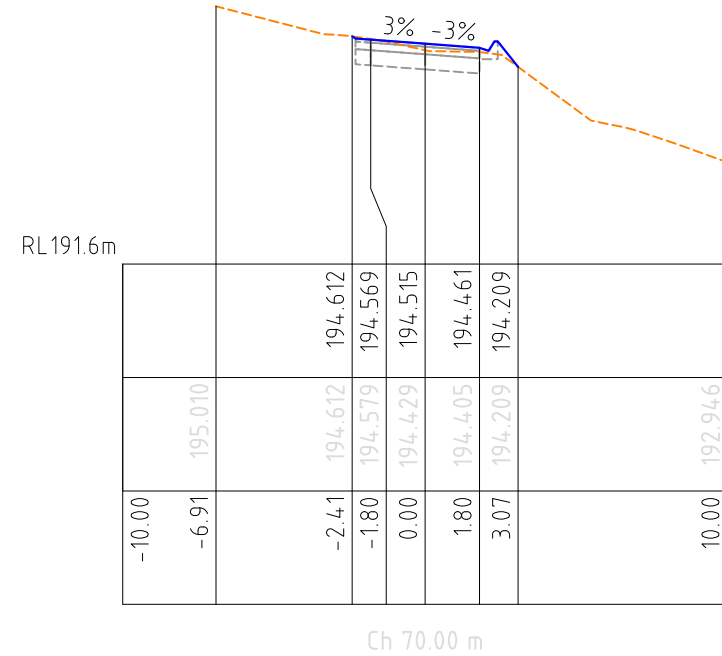


VERTICAL SCALE 1:250



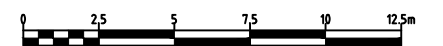
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Date:	Rev.	Amendments:	Legend EXISTING KERB AND CHANNEL PROPOSED KERB AND CHANNEL EXISTING DRAINS AND PITS PROPOSED DRAINS AND PITS PROPOSED PROPERTY INLET WATER MAINS AND FITTINGS SEWER GAS MAINS TELECOM CABLES AND PITS EX ---W--- PROP ---W--- EX ---S--- PROP ---S--- EX ---G--- PROP ---G--- EX ---T--- PROP ---T--- THIS DOCUMENT/DRAWING IS PROTECTED BY FEDERAL COPYRIGHT LAW. COPYING IN ANY SHAPE OR FORM, WHOLE OR PART WITHOUT THE WRITTEN AUTHORISATION OF CRAIG CIVIL DESIGN PTY LTD. IS STRICTLY PROHIBITED. CIVIL PROCEEDINGS CLAIMING DAMAGES OR OTHER REMEDIES MAY BE BROUGHT AGAINST PERSONS FOUND COPYING THIS DOCUMENT.	Design: Date: JULY 2020	Scale: AS SHOWN	 Civil Engineering Consultants & Project Managers A.C.N. 158 212 245 P.O. Box 1207, Narre Warren 3805 mail@jamisoncraig.com.au Phone: 5995 4388 Fax: 5995 5330	CARDINIA SHIRE COUNCIL CAROLINE AVENUE & BORONIA CRESCENT COCKATOO ROAD RECONSTRUCTION WORKS	Drawing No CCD. 20021 63
				Checked: Date: JULY 2020	Approved Date:			Sheet 63 OF 91
				Datum: AHD	MELWAY Ref:		ROUEN ROAD LONGITUDINAL SECTION	Rev A
01.04.2021	A	SUBMITTED FOR COMMENTS						CCD Ref. No. 20021



ROUEN ROAD CROSS SECTION


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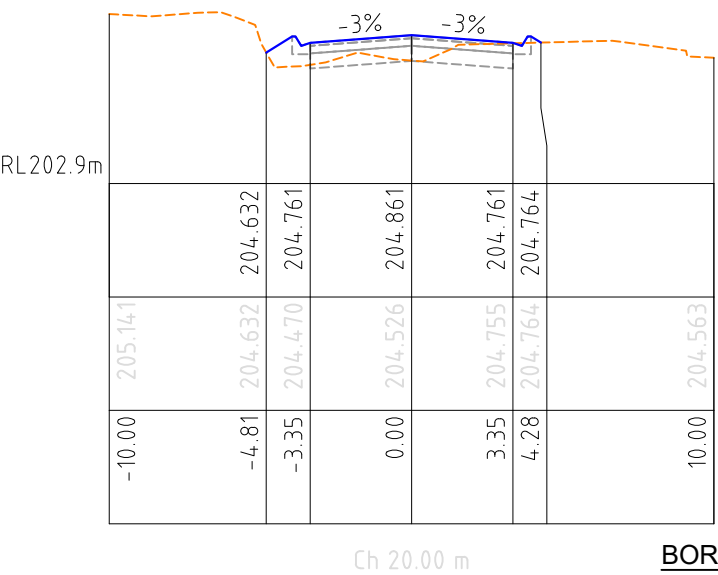
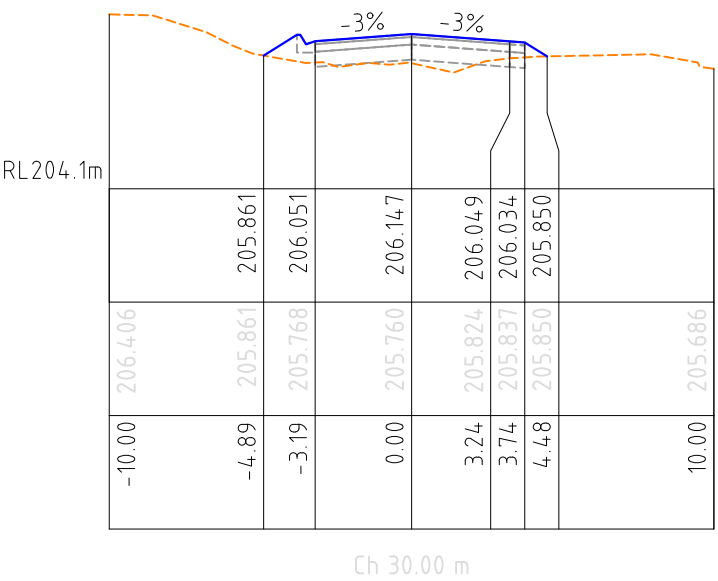


HORIZONTAL SCALE 1:250



VERTICAL SCALE 1:100

Date:	Rev.	Amendments:	<div>Legend</div> <div>EXISTING KERB AND CHANNEL</div> <div>PROPOSED KERB AND CHANNEL</div> <div>EXISTING DRAINS AND PITS</div> <div>PROPOSED DRAINS AND PITS</div> <div>PROPOSED PROPERTY INLET</div> <div>P...</div>	<div>WATER MAINS AND FITTINGS</div> <div>SEWER</div> <div>GAS MAINS</div> <div>TELECOM CABLES AND PITS</div>	<div>EX ---W---</div> <div>PROP ---W---</div> <div>EX ---S---○</div> <div>PROP ---S---</div> <div>EX ---G---</div> <div>PROP ---G---</div> <div>EX ---T---</div> <div>PROP ---T---</div>	<div>THIS DOCUMENT/DRAWING IS PROTECTED BY FEDERAL COPYRIGHT LAW. COPYING IN ANY SHAPE OR FORM, WHOLE OR PART WITHOUT THE WRITTEN AUTHORISATION OF CRAIG CIVIL DESIGN PTY LTD. IS STRICTLY PROHIBITED.</div> <div>CIVIL PROCEEDINGS CLAIMING DAMAGES OR OTHER REMEDIES MAY BE BROUGHT AGAINST PERSONS FOUND COPYING THIS DOCUMENT.</div>	Design:	JULY 2020	Scale:	AS SHOWN	<div></div> <div>Craig Civil Design</div> <div>Civil Engineering Consultants & Project Managers</div> <div>A.C.N. 159 212 245</div> <div>P.O. Box 1207, Narre Warren 3805</div> <div>mail@jamisoncraig.com.au</div> <div>Phone: 5995 4388</div> <div>Fax: 5995 5330</div>	CARDINIA SHIRE COUNCIL		Drawing No	CCD.
							Checked:	JULY 2020	Approved	Date:		CAROLINE AVENUE & BORONIA CRESCENT		20021	65
							Date:					COCKATOO		Sheet	65 OF 91
							Datum:	AHD	MELWAY	Ref:		ROAD RECONSTRUCTION WORKS		Rev	A
01.04.2021	A	SUBMITTED FOR COMMENTS										ROUEN ROAD CROSS SECTION		CCD Ref. No.	20021



BORONIA CRESCENT CROSS SECTION


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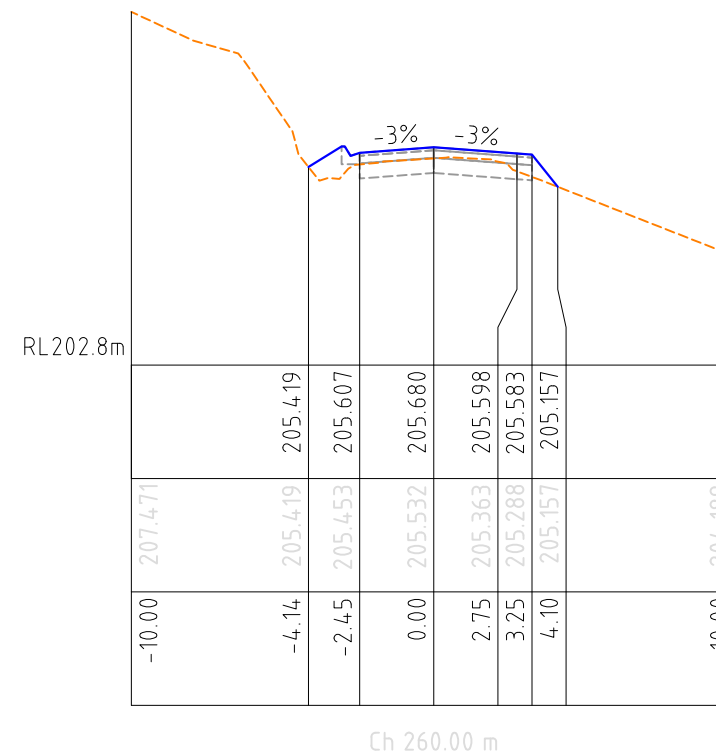
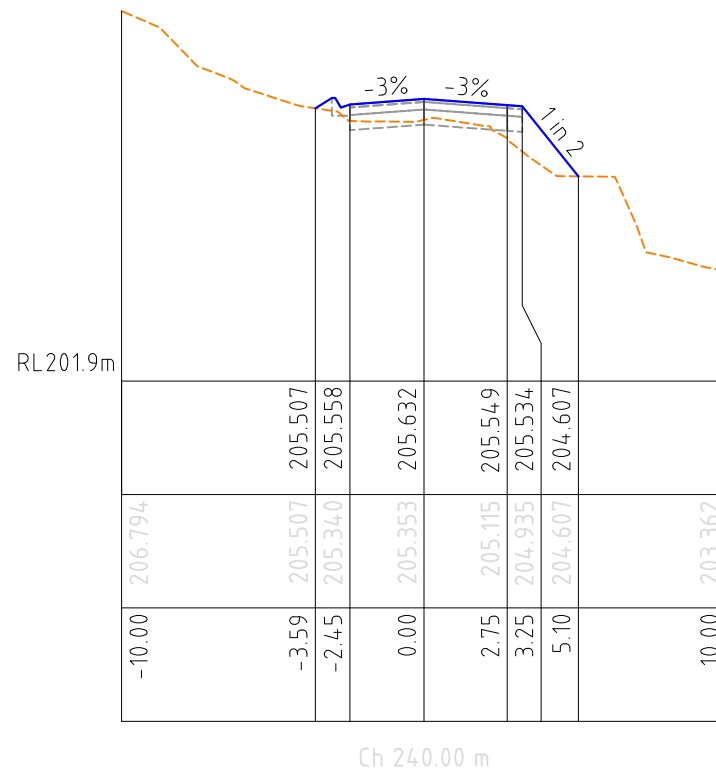
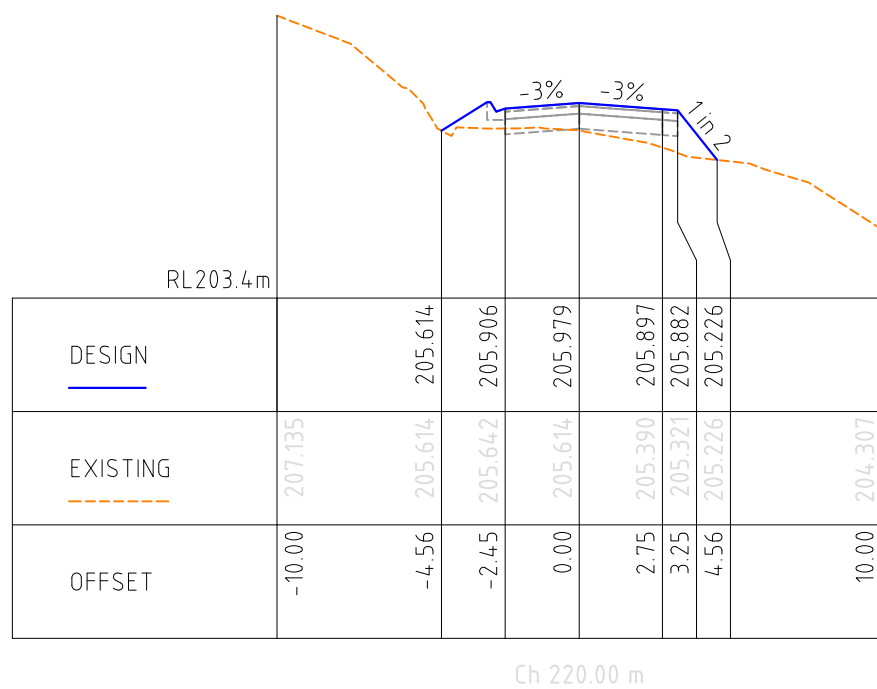
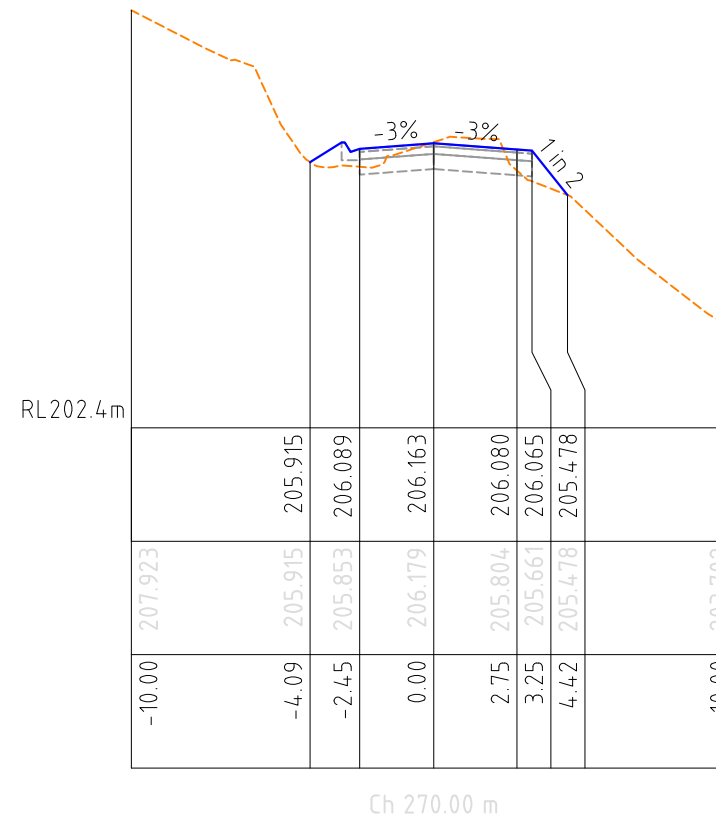
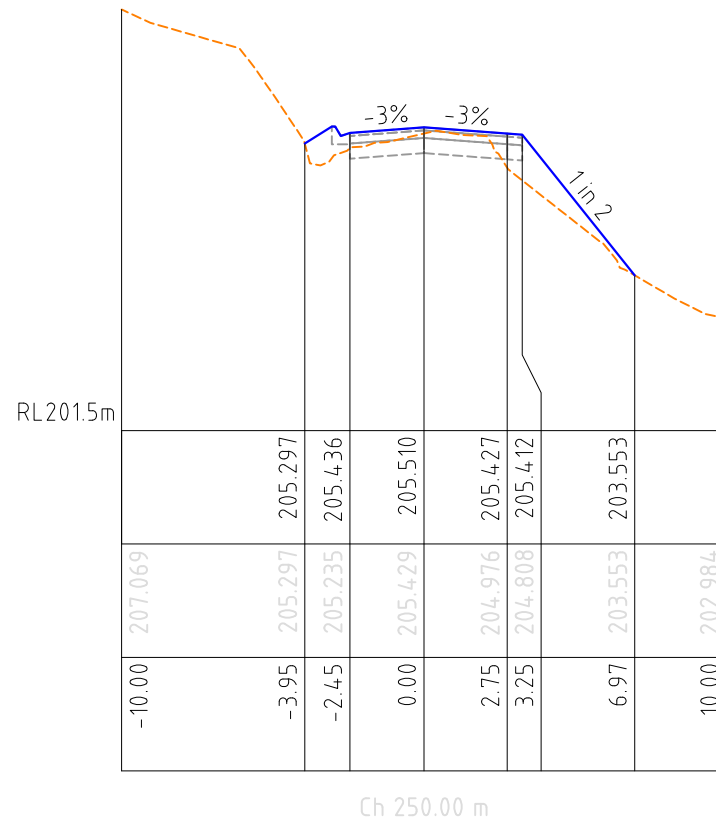
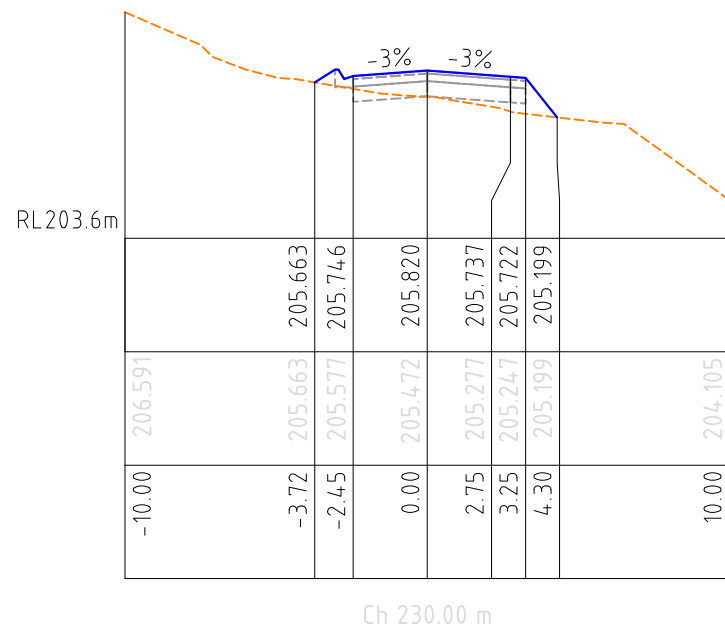


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			EXISTING KERB AND CHANNEL	SEWER	PROP ---W---	EX ---S---○		Date:	JULY 2020		AS SHOWN	CAROLINE AVENUE & BORONIA CRESCENT			20021	66
			PROPOSED KERB AND CHANNEL		PROP ---S---	EX ---G---		Checked:	JULY 2020		Approved	COCKATOO			Sheet	66 OF 91
			EXISTING DRAINS AND PITS	GAS MAINS	PROP ---G---	EX ---T---		Date:			Date:	ROAD RECONSTRUCTION WORKS			Rev	A
			PROPOSED DRAINS AND PITS	TELECOM CABLES AND PITS	PROP ---T---	EX ---P---		Datum:	AHD		MELWAY	BORONIA CRESCENT CROSS SECTION			CCD Ref. No.	20021
01.04.2021	A	SUBMITTED FOR COMMENTS	PROPOSED PROPERTY INLET													



BORONIA CRESCENT CROSS SECTION

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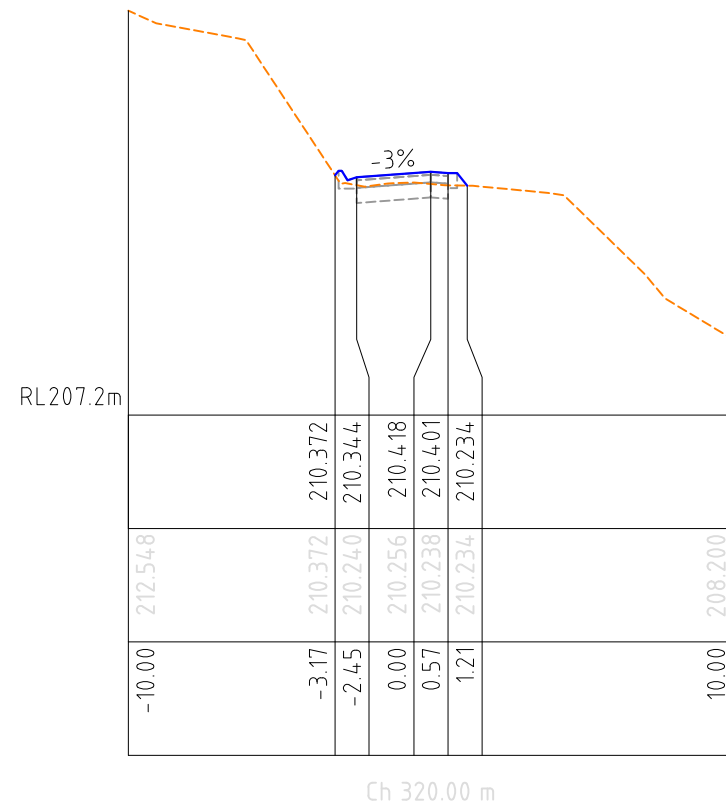
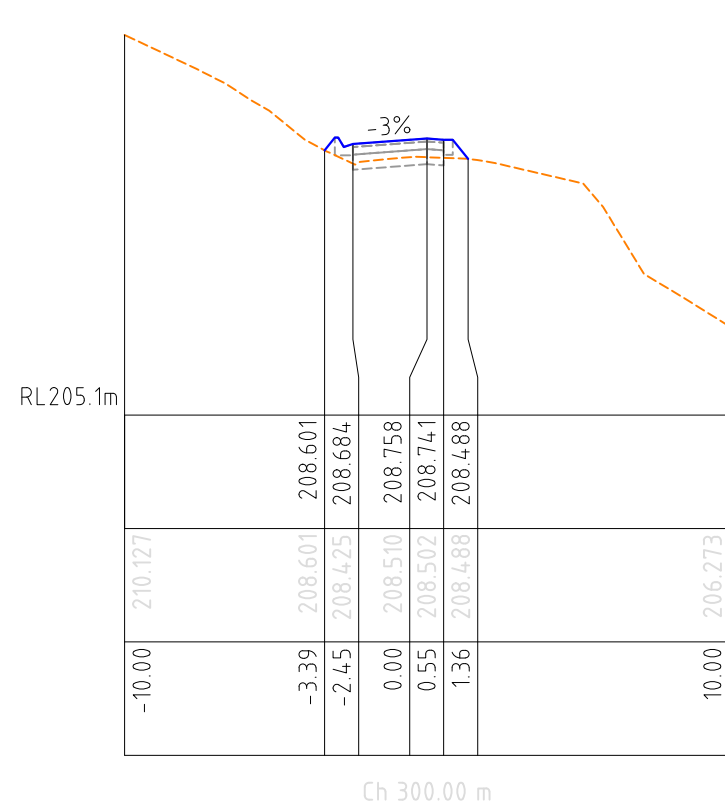
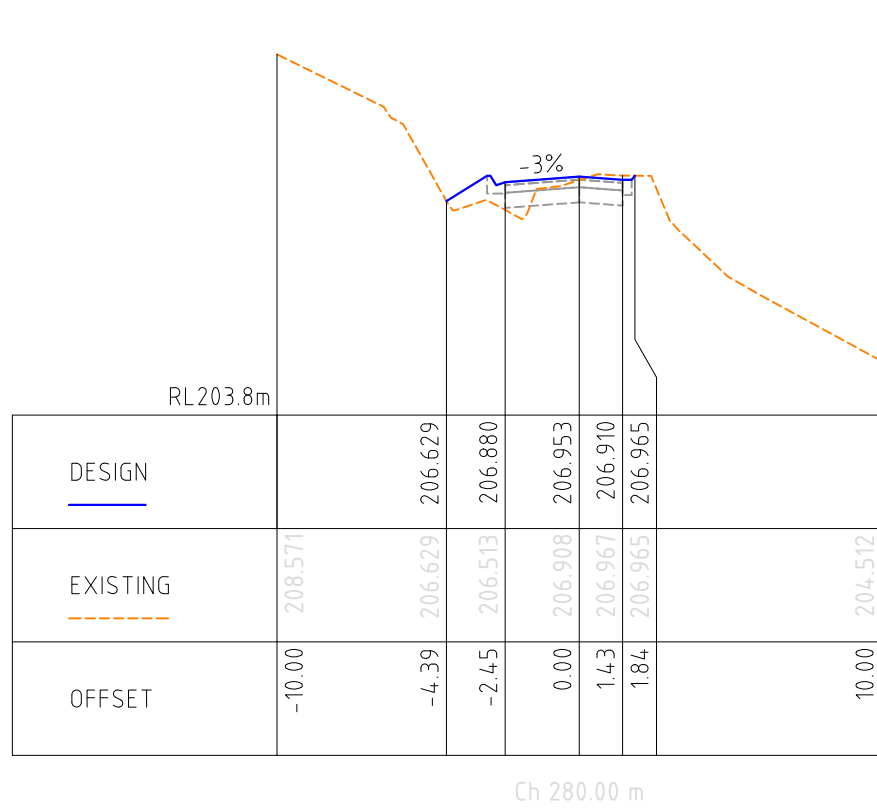
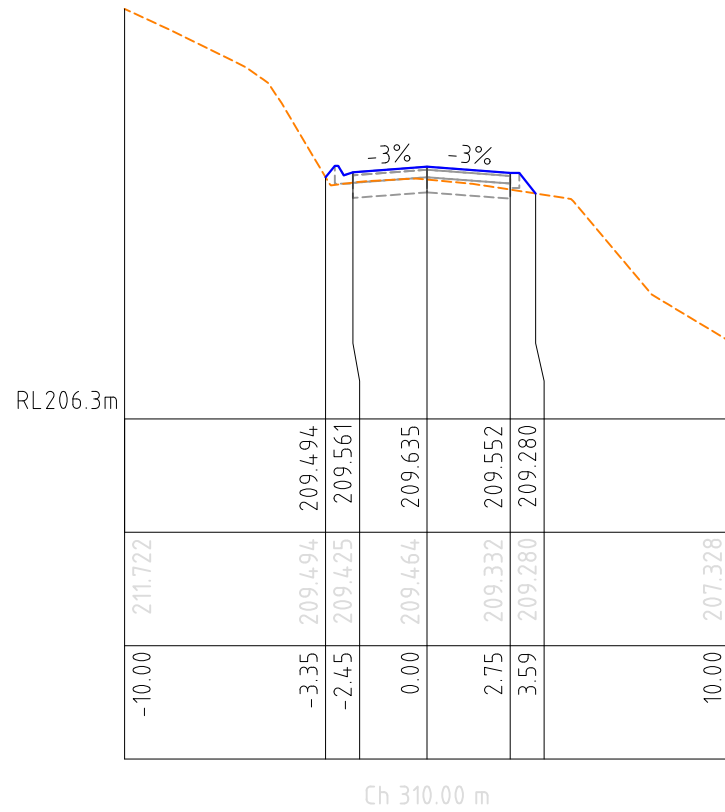
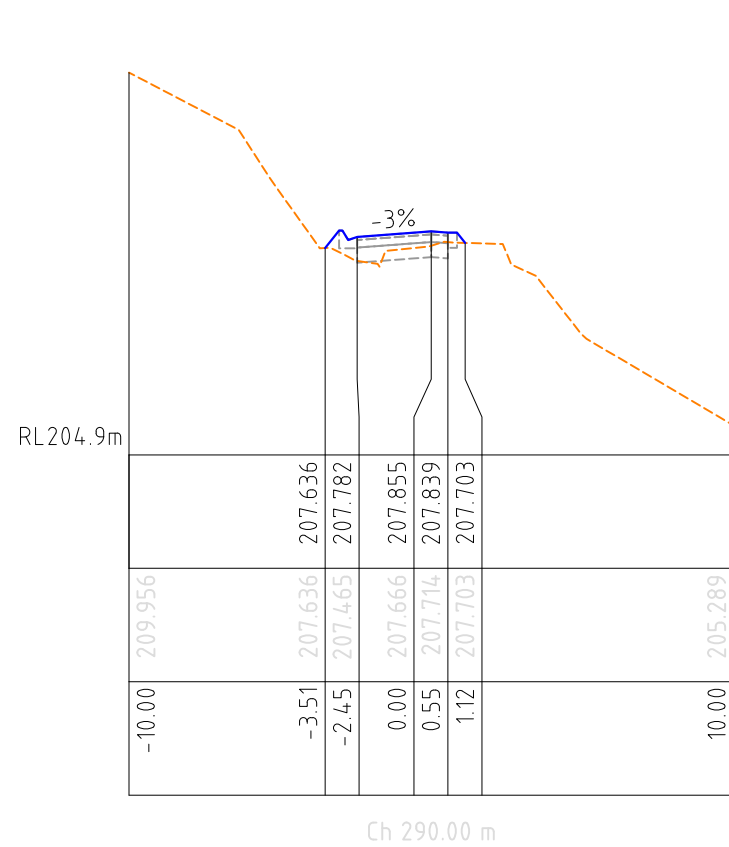


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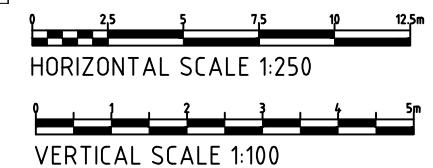
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			PROPOSED KERB AND CHANNEL	GAS MAINS	EX PROP ---G---		Datum: AHD	MELWAY Ref:		COCKATOO	Sheet 70 OF 91
			EXISTING DRAINS AND PITS	TELECOM CABLES AND PITS	EX PROP ---T---					ROAD RECONSTRUCTION WORKS	Rev A
01.04.2021	A	SUBMITTED FOR COMMENTS	PROPOSED DRAINS AND PITS							BORONIA CRESCENT CROSS SECTION	CCD Ref. No. 20021
			PROPOSED PROPERTY INLET								

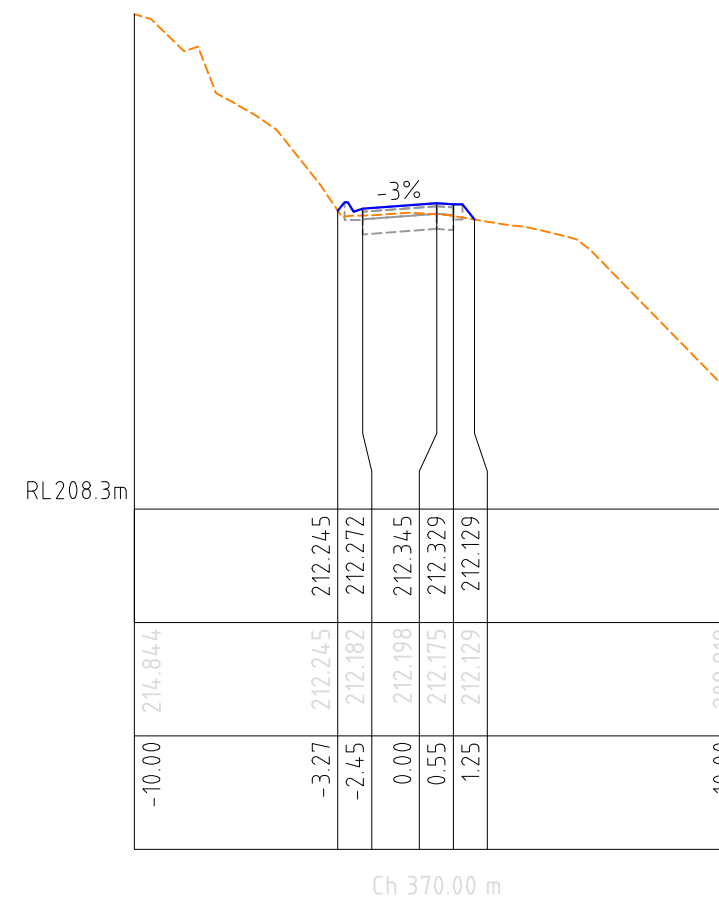
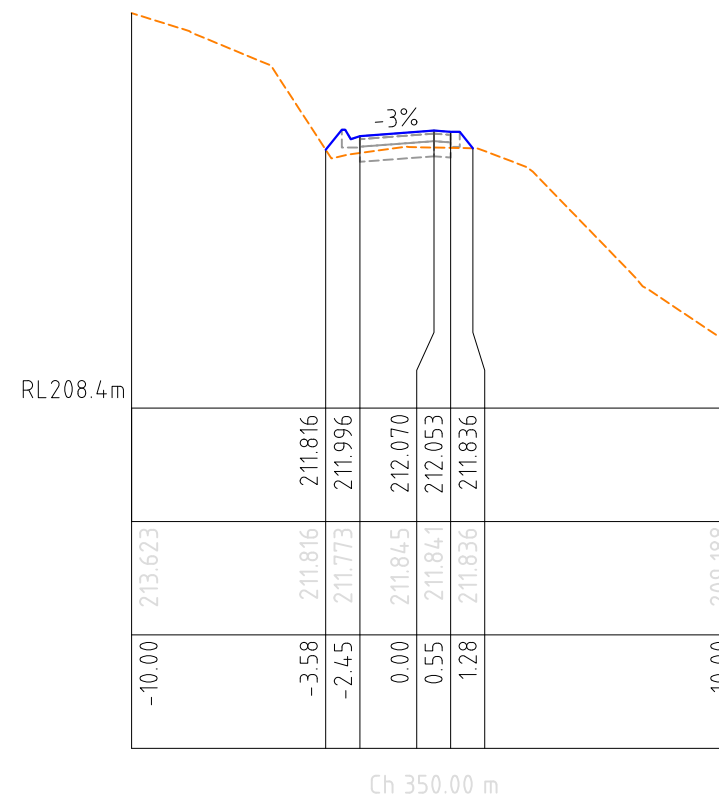
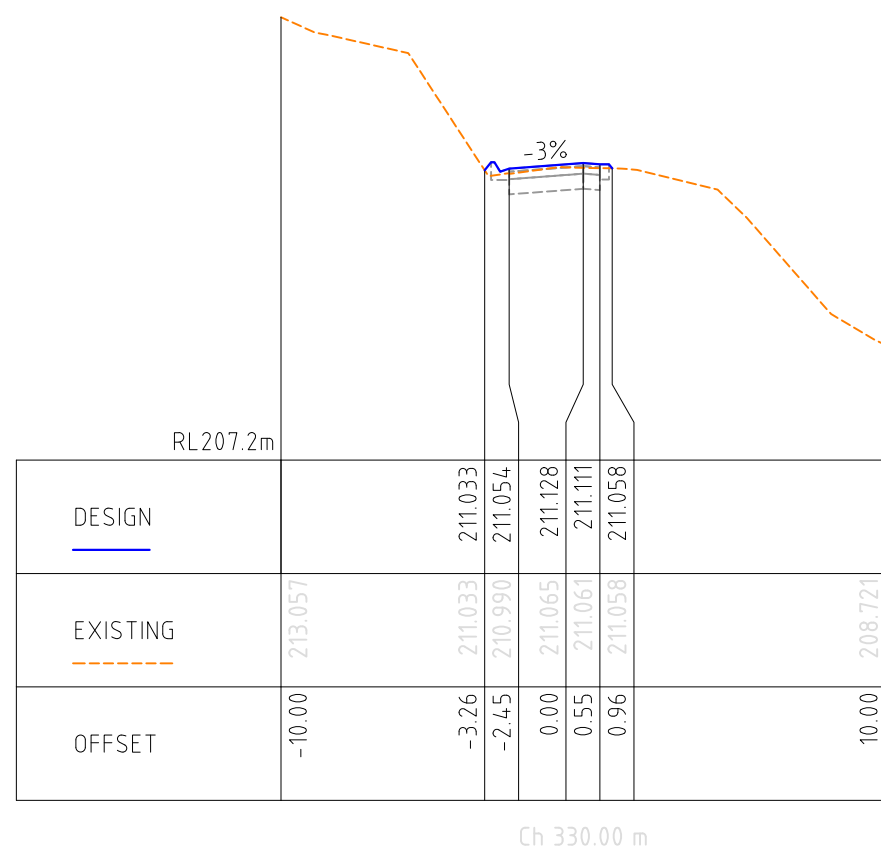
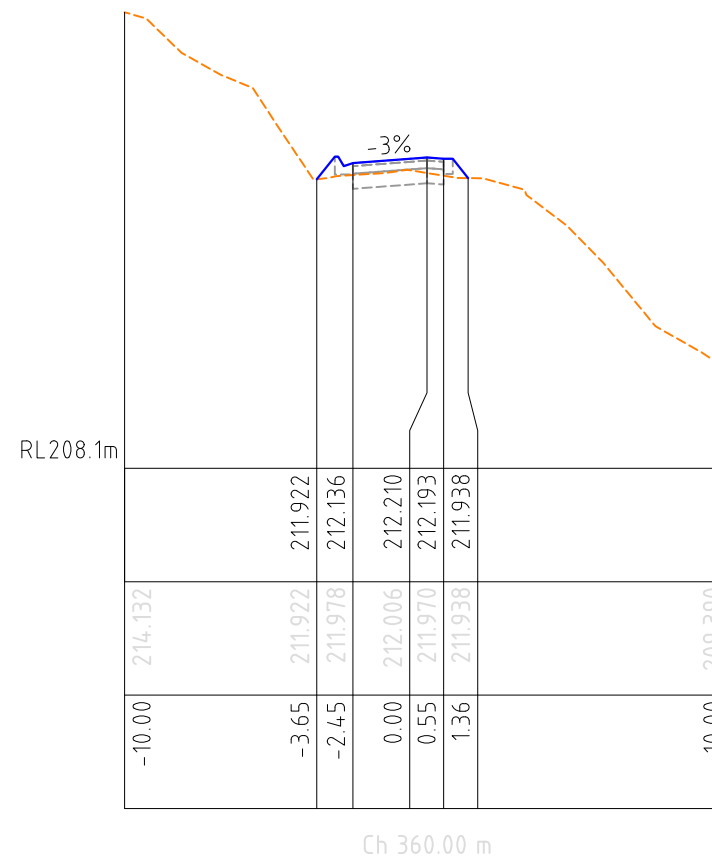
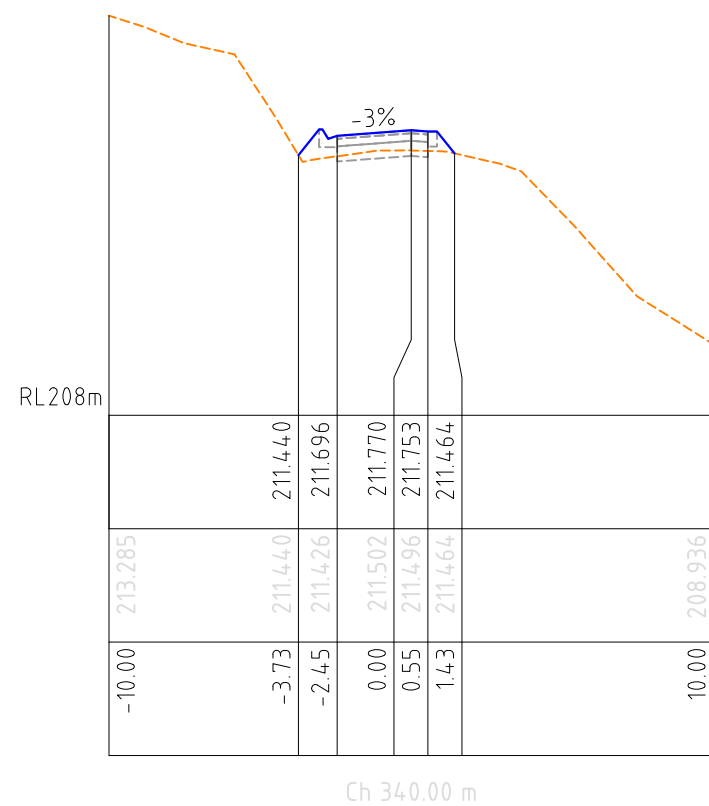


BORONIA CRESCENT CROSS SECTION

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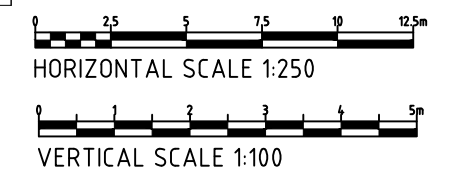


Date:	Rev.	Amendments:	Legend EXISTING KERB AND CHANNEL PROPOSED KERB AND CHANNEL EXISTING DRAINS AND PITS PROPOSED DRAINS AND PITS PROPOSED PROPERTY INLET P.I.L.	WATER MAINS AND FITTINGS SEWER GAS MAINS TELECOM CABLES AND PITS	EX ---W--- PROP ---W--- EX ---S--- PROP ---S--- EX ---G--- PROP ---G--- EX ---T--- PROP ---T---	THIS DOCUMENT/DRAWING IS PROTECTED BY FEDERAL COPYRIGHT LAW. COPYING IN ANY SHAPE OR FORM, WHOLE OR PART WITHOUT THE WRITTEN AUTHORISATION OF CRAIG CIVIL DESIGN PTY LTD. IS STRICTLY PROHIBITED. CIVIL PROCEEDINGS CLAIMING DAMAGES OR OTHER REMEDIES MAY BE BROUGHT AGAINST PERSONS FOUND COPYING THIS DOCUMENT.	Design:	Scale:	 Civil Engineering Consultants & Project Managers A.C.N. 158 212 245 P.O. Box 1207, Narre Warren 3805 mail@jamisoncraig.com.au	CARDINIA SHIRE COUNCIL CAROLINE AVENUE & BORONIA CRESCENT COCKATOO ROAD RECONSTRUCTION WORKS BORONIA CRESCENT CROSS SECTION		Drawing No CCD. 20021 71 Sheet 71 OF 91 Rev A CCD Ref. No. 20021
							Date:	AS SHOWN				
							Checked:	Approved				
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01.04.2021	A	SUBMITTED FOR COMMENTS					AHD	Ref:	5995 4388 5995 5330			

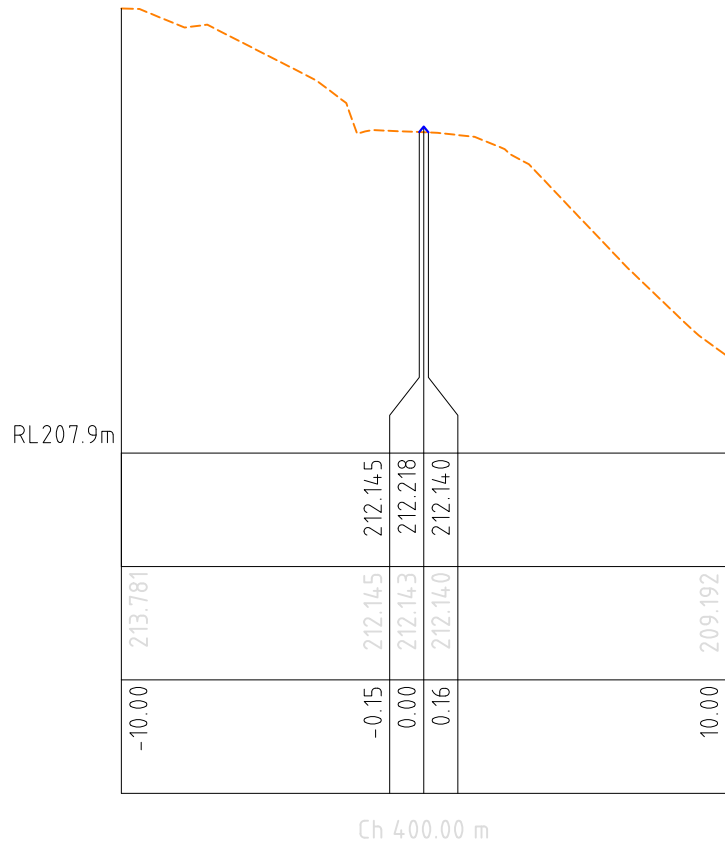
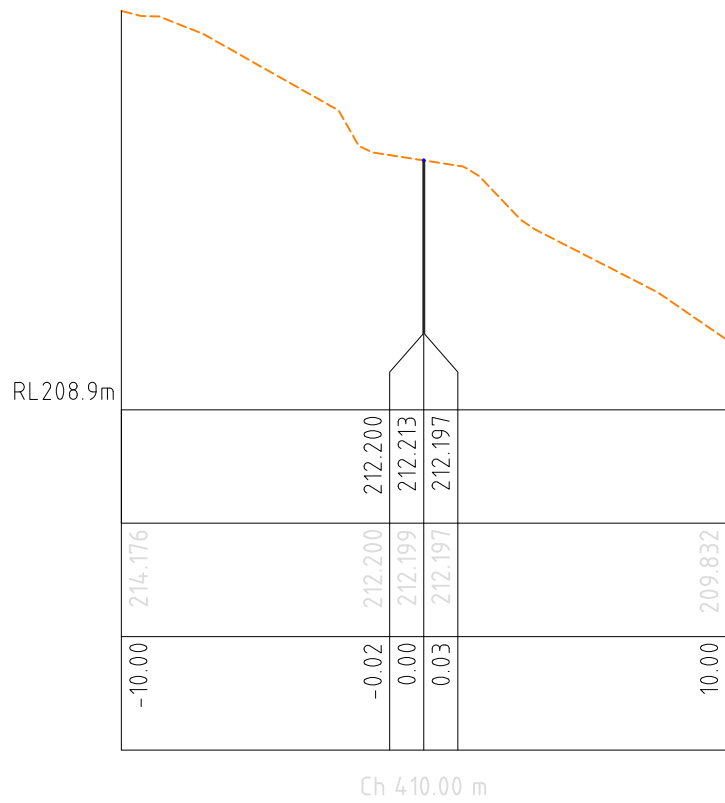
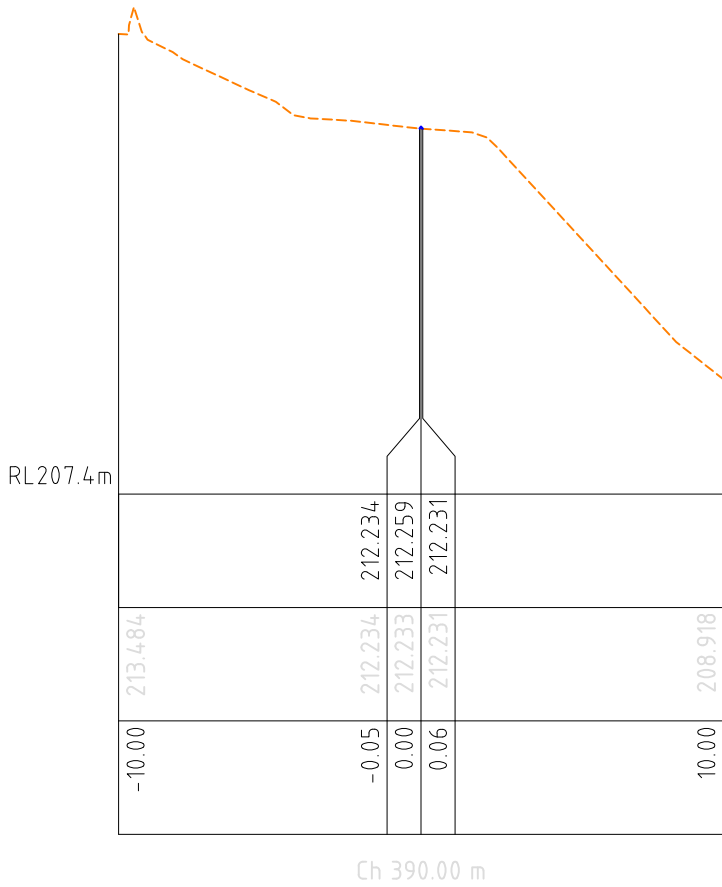
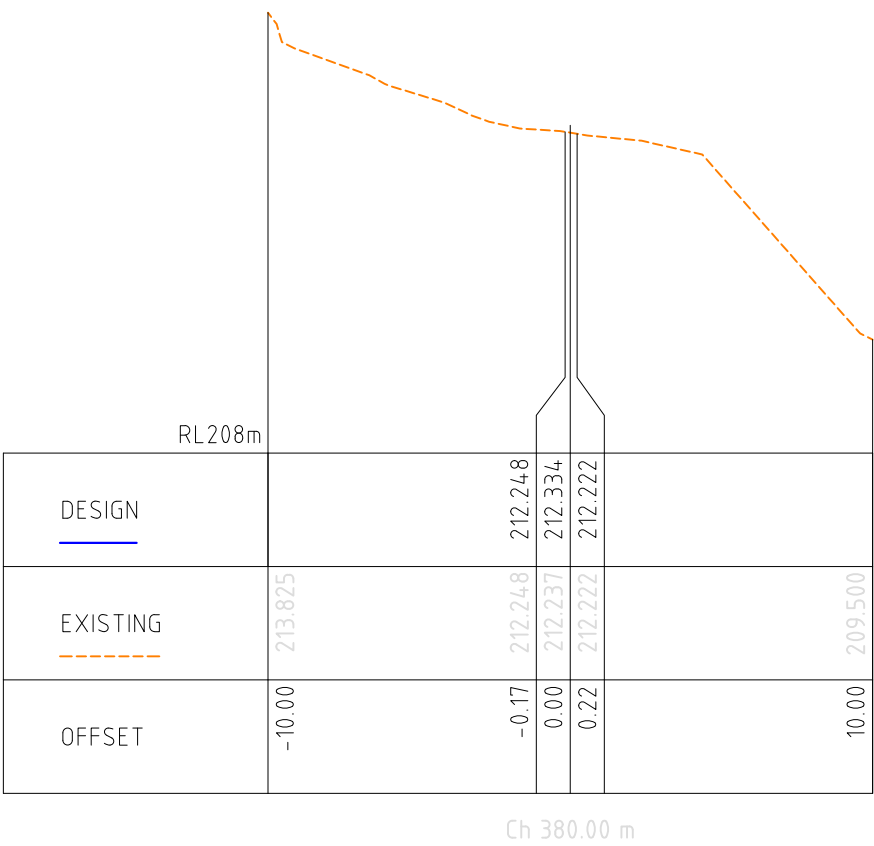


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Date:	Rev.	Amendments:	<div>Legend</div> <div><div>EXISTING KERB AND CHANNEL</div><div>PROPOSED KERB AND CHANNEL</div><div>EXISTING DRAINS AND PITS</div><div>PROPOSED DRAINS AND PITS</div><div>PROPOSED PROPERTY INLET</div><div>EXISTING KERB AND CHANNEL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



BORONIA CRESCENT CROSS SECTION

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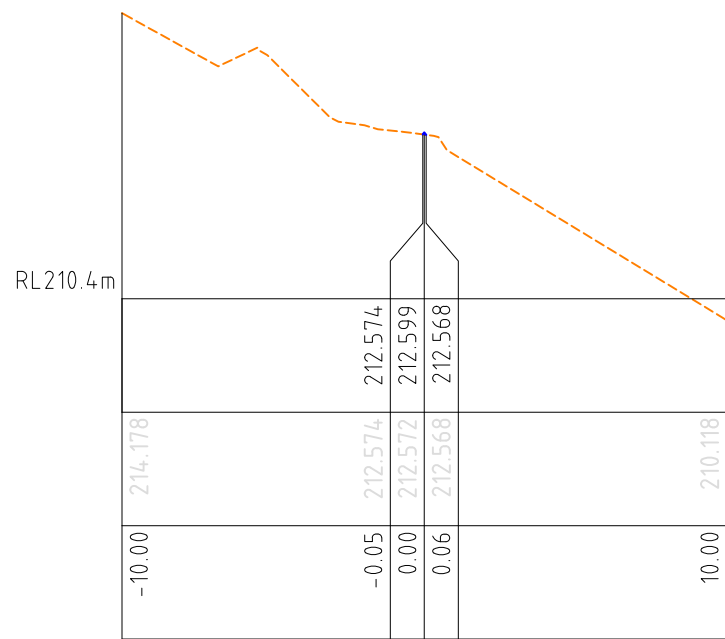


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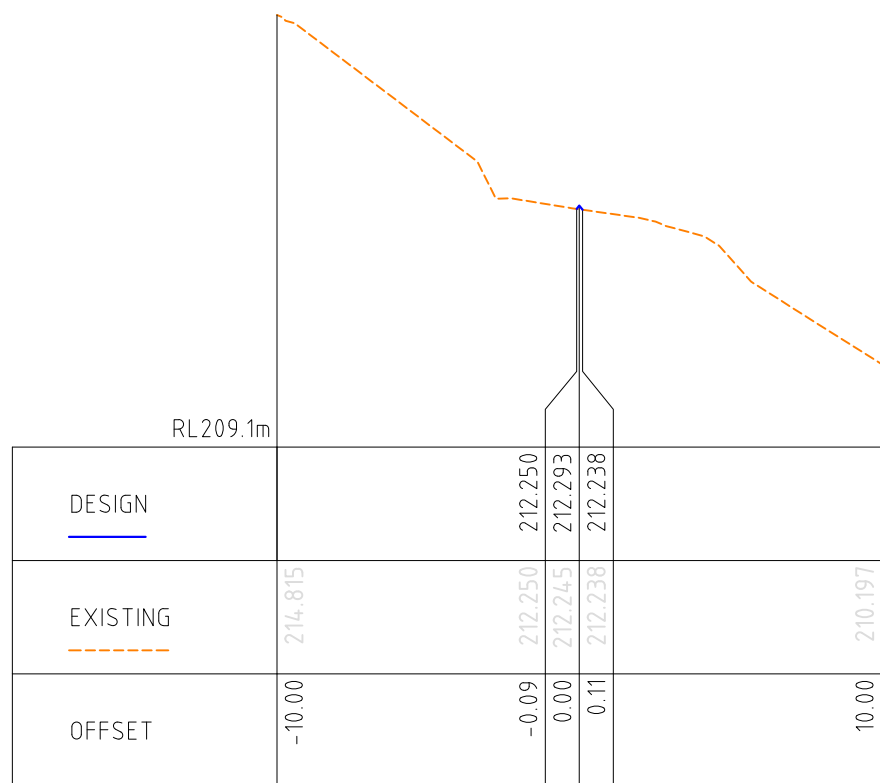


VERTICAL SCALE 1:100

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				Checked: JULY 2020	Approved Date:				
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Ch 428.96 m



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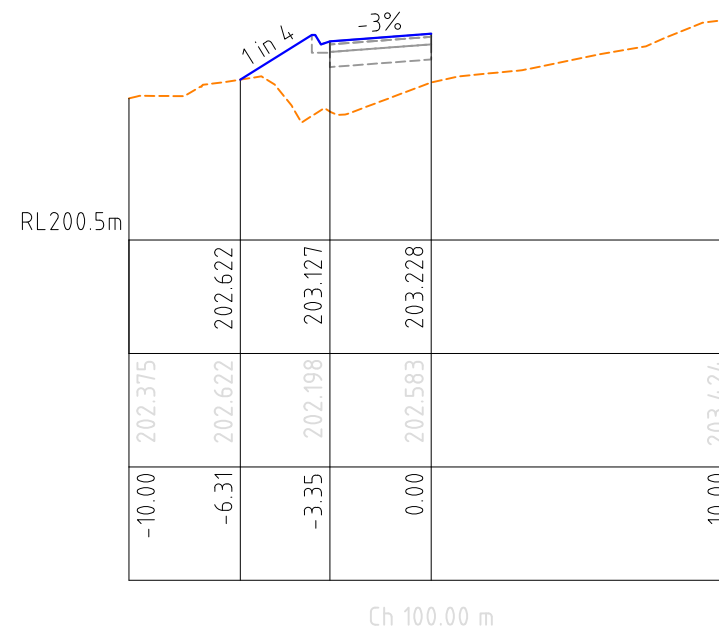
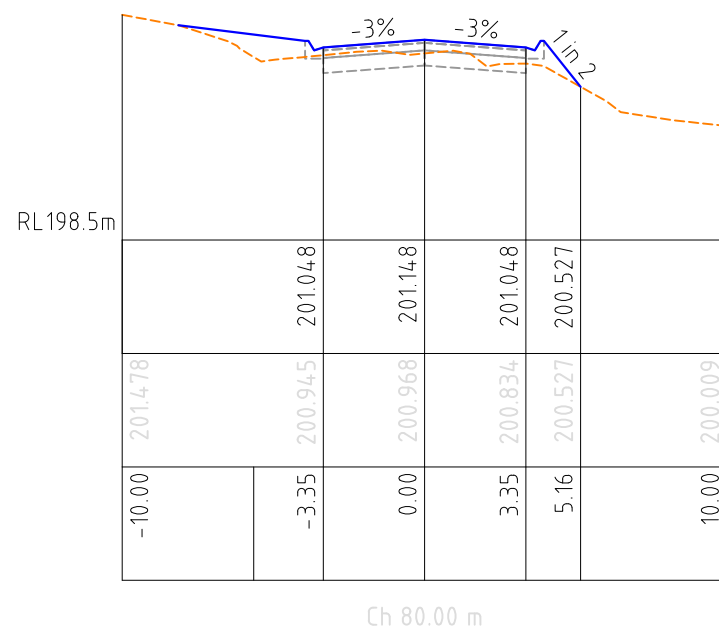
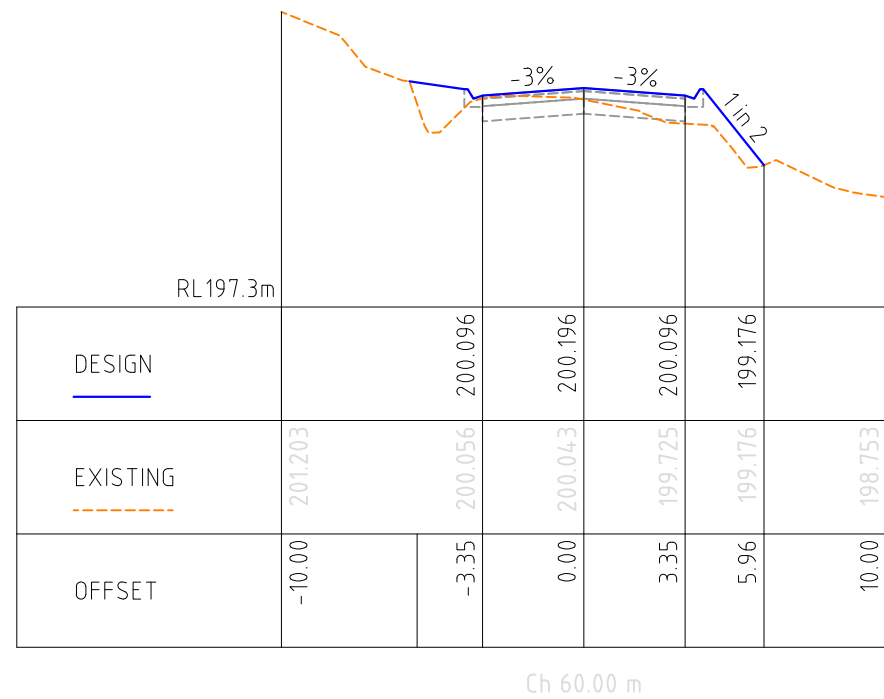
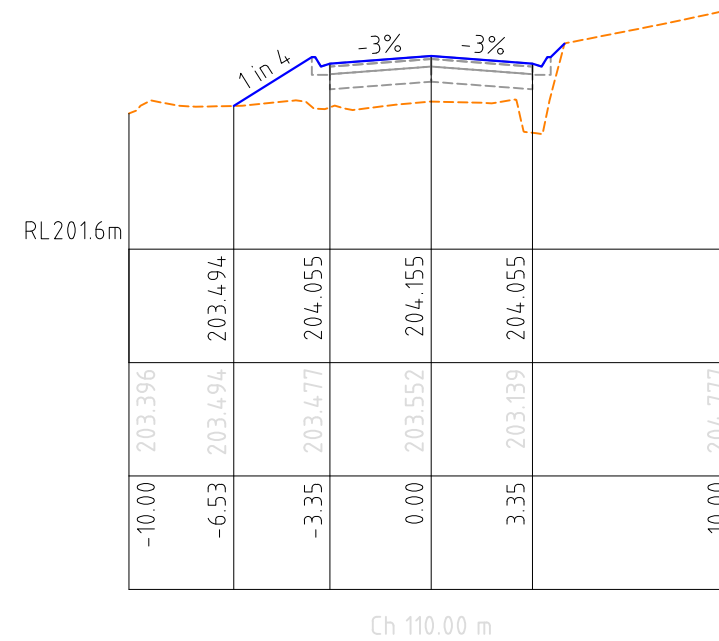
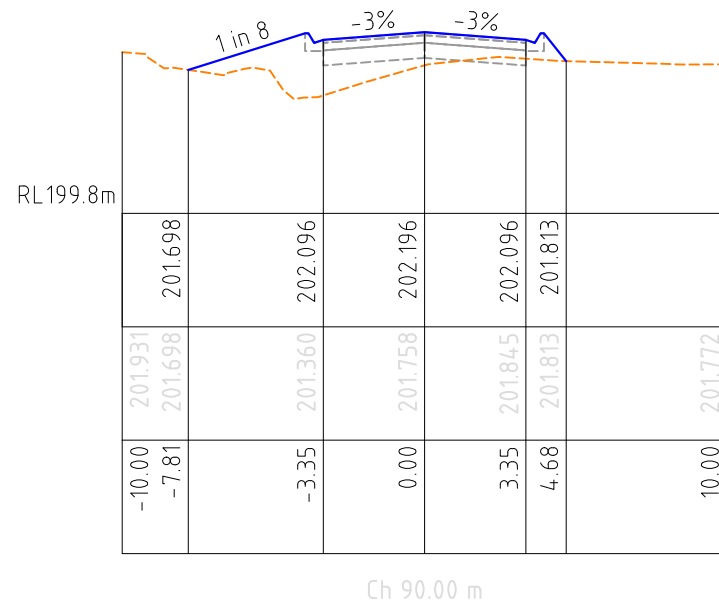
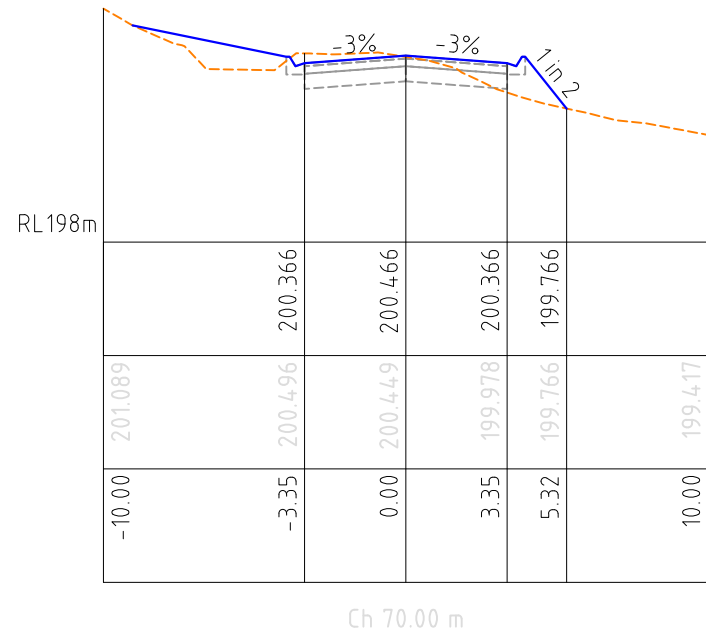


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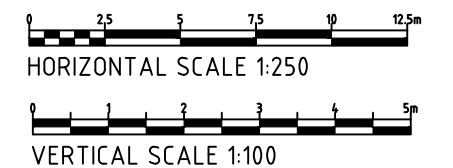
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				Checked: JULY 2020	Approved Date:		CAROLINE AVENUE & BORONIA CRESCENT		20021 74
				Datum: AHD	MELWAY Ref:		COCKATOO		Sheet 74 OF 91
							ROAD RECONSTRUCTION WORKS		Rev A
01.04.2021	A	SUBMITTED FOR COMMENTS					BORONIA CRESCENT CROSS SECTION		CCD Ref. No. 20021

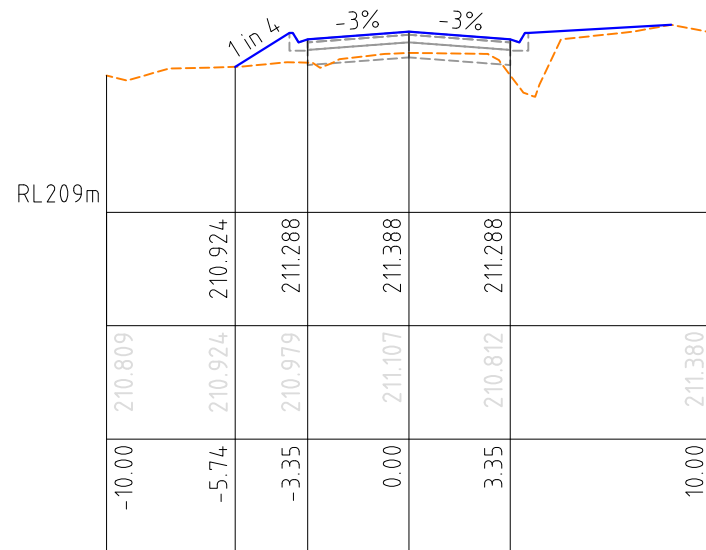


CAROLINE AVENUE CROSS SECTION

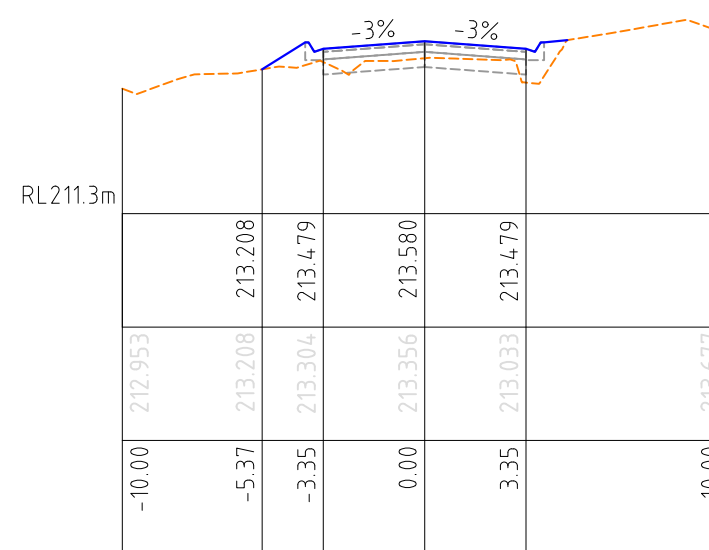
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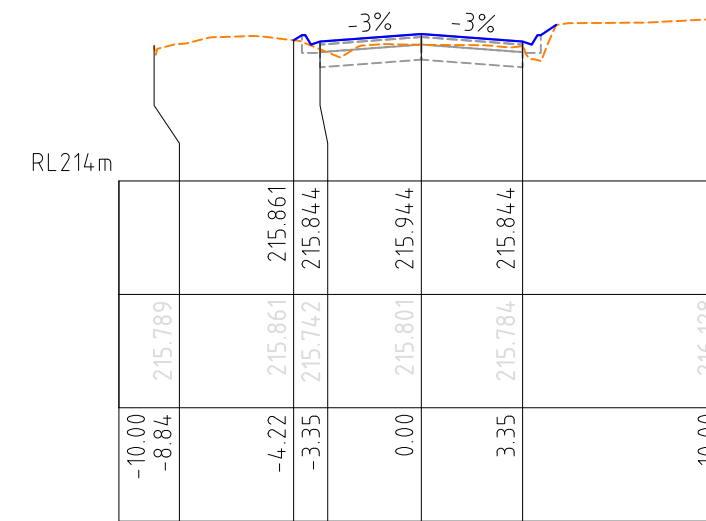
Date:	Rev.	Amendments:	Legend		WATER MAINS AND FITTINGS		EX ---W---	THIS DOCUMENT/DRAWING IS PROTECTED BY FEDERAL COPYRIGHT LAW. COPYING IN ANY SHAPE OR FORM, WHOLE OR PART WITHOUT THE WRITTEN AUTHORISATION OF CRAIG CIVIL DESIGN PTY LTD. IS STRICTLY PROHIBITED. CIVIL PROCEEDINGS CLAIMING DAMAGES OR OTHER REMEDIES MAY BE BROUGHT AGAINST PERSONS FOUND COPYING THIS DOCUMENT.	Design:	JULY 2020	Scale:	AS SHOWN	<div> Civil Engineering Consultants & Project Managers A.C.N. 159 212 245 P.O. Box 1207, Narre Warren 3805 mail@jamisoncraig.com.au</div> <div>Phone: 5995 4388 Fax: 5995 5330</div>		CARDINIA SHIRE COUNCIL		Drawing No	CCD.	
			EXISTING KERB AND CHANNEL		SEWER	EX ---S---O	EX ---W---		Date:	JULY 2020	Approved	Date:			CAROLINE AVENUE & BORONIA CRESCENT		Sheet	20021 76	
			PROPOSED KERB AND CHANNEL			EX ---S---	EX ---S---O		Checked:	JULY 2020	Date:				COCKATOO		Rev	76 OF 91	
			EXISTING DRAINS AND PITS		GAS MAINS	EX ---G---	EX ---G---		Datum:	AHD	MELWAY	Ref:			ROAD RECONSTRUCTION WORKS		A		
			PROPOSED DRAINS AND PITS		TELECOM CABLES AND PITS	EX ---T---	EX ---T---								CAROLINE AVENUE CROSS SECTION		CCD Ref. No. 20021		
01.04.2021	A	SUBMITTED FOR COMMENTS	PROPOSED PROPERTY INLET			EX ---T---	EX ---T---												



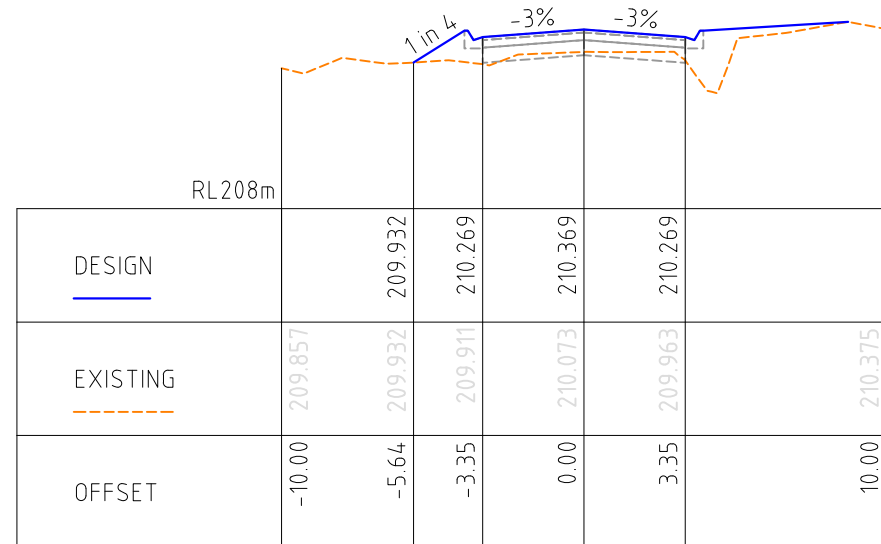
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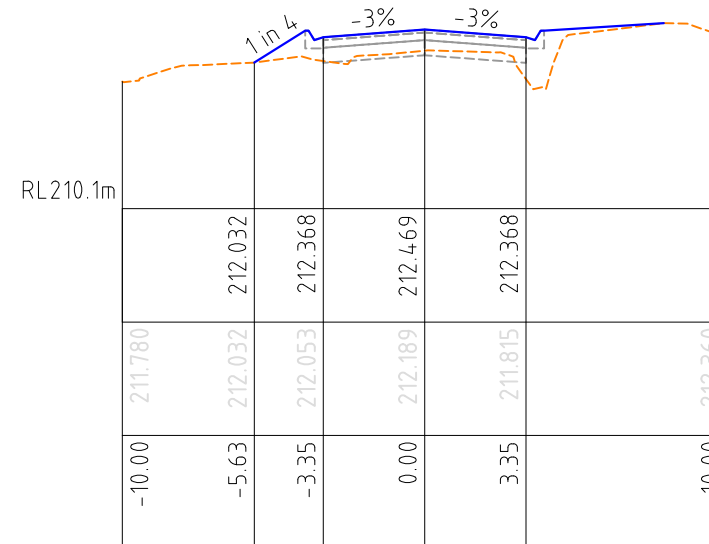
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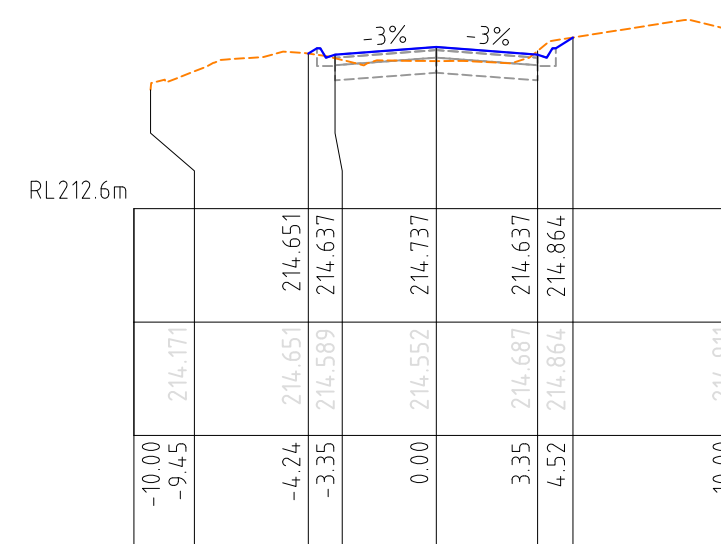
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Ch 200.00 m



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CAROLINE AVENUE CROSS SECTION


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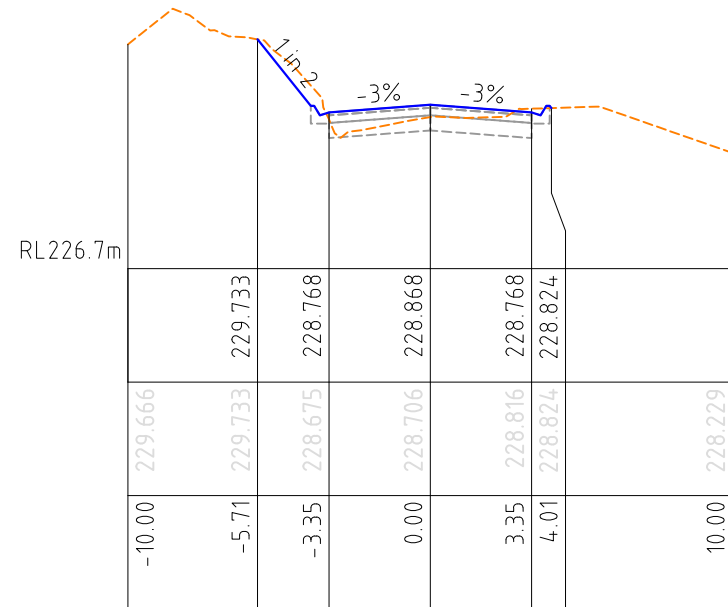


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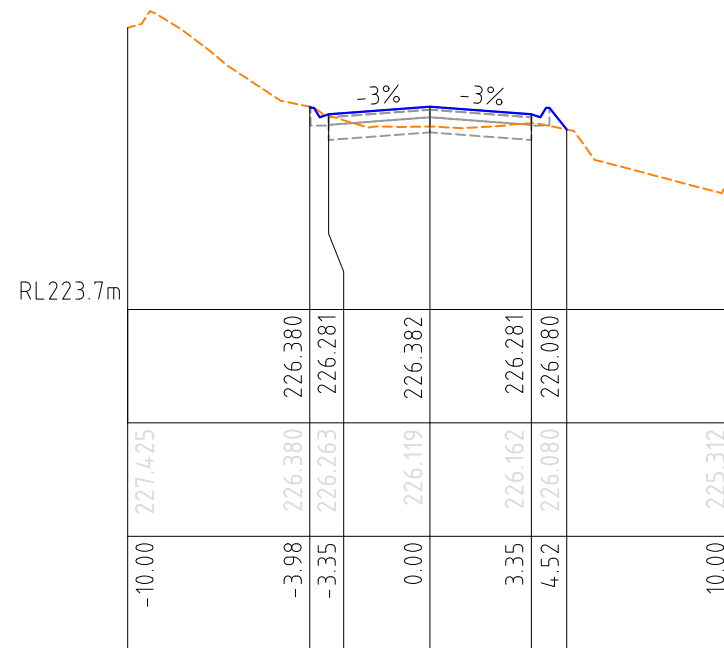


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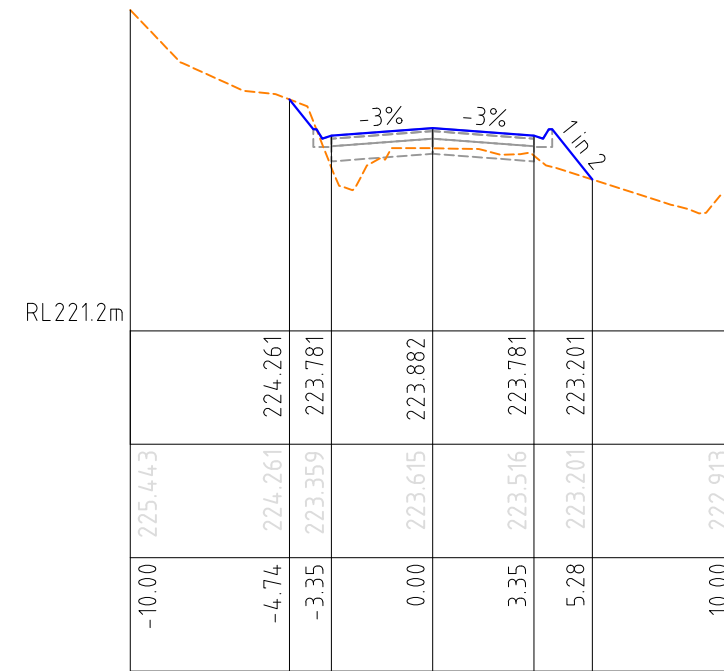
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						20021 78						
						Sheet 78 OF 91						
						Rev A						
01.04.2021	A	SUBMITTED FOR COMMENTS										



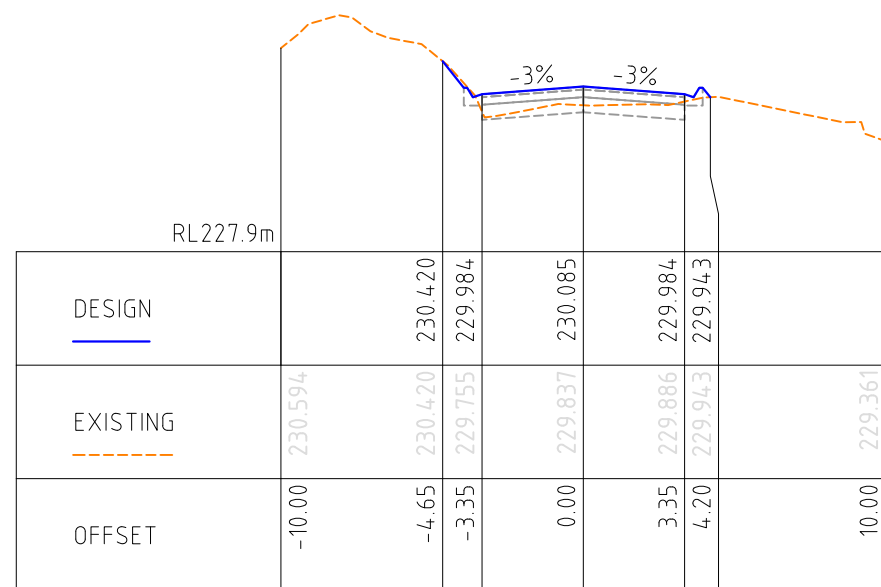
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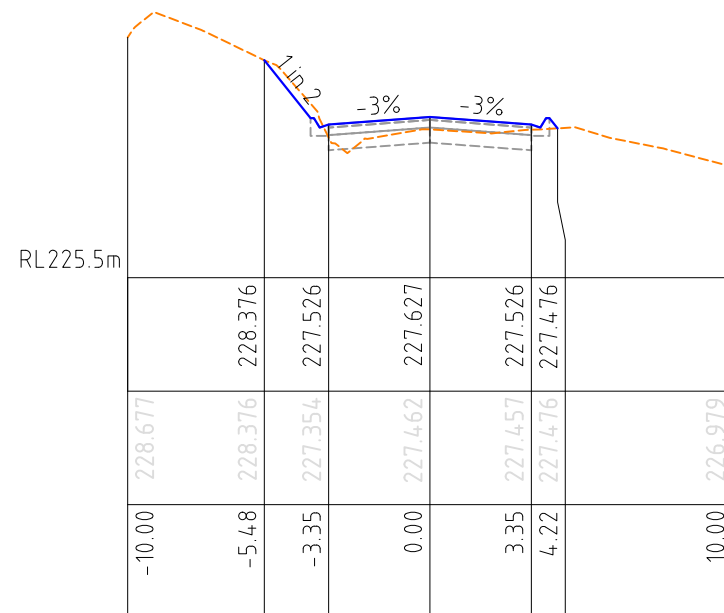
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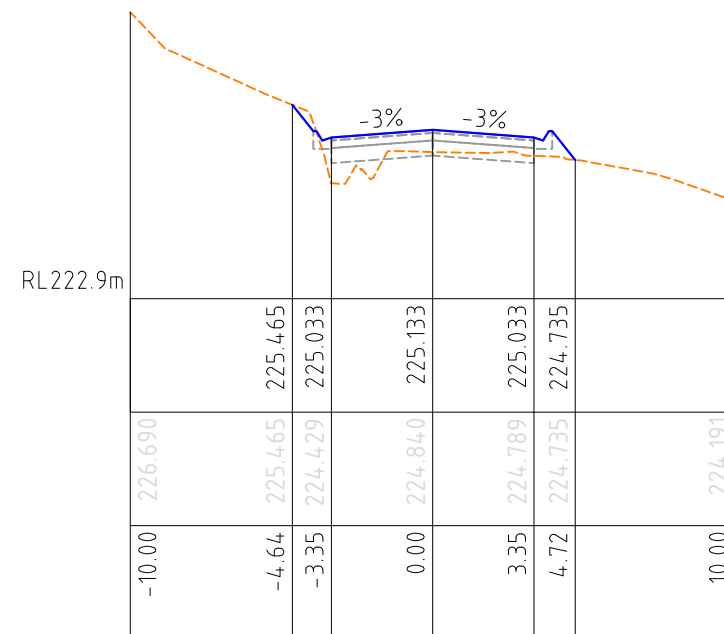
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Ch 420.00 m



Ch 440.00 m



Ch 460.00 m

CAROLINE AVENUE CROSS SECTION







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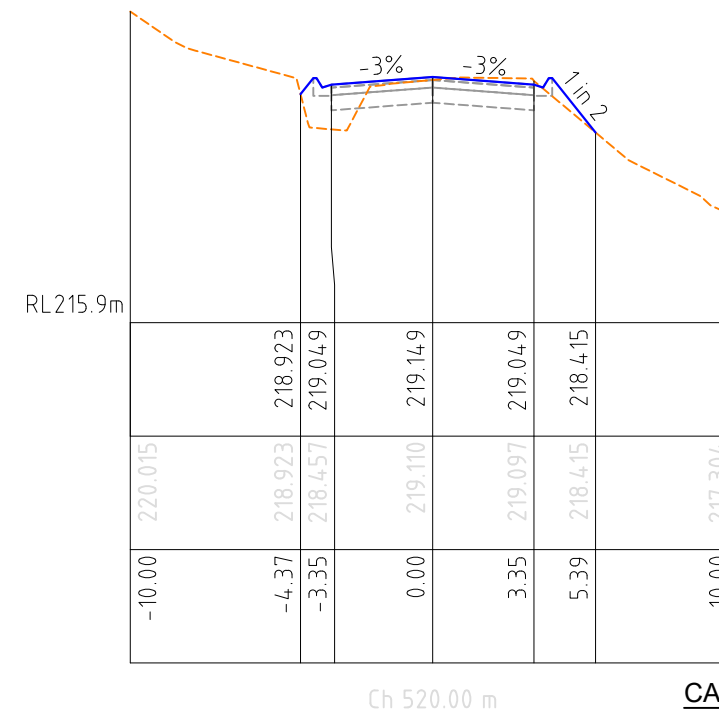
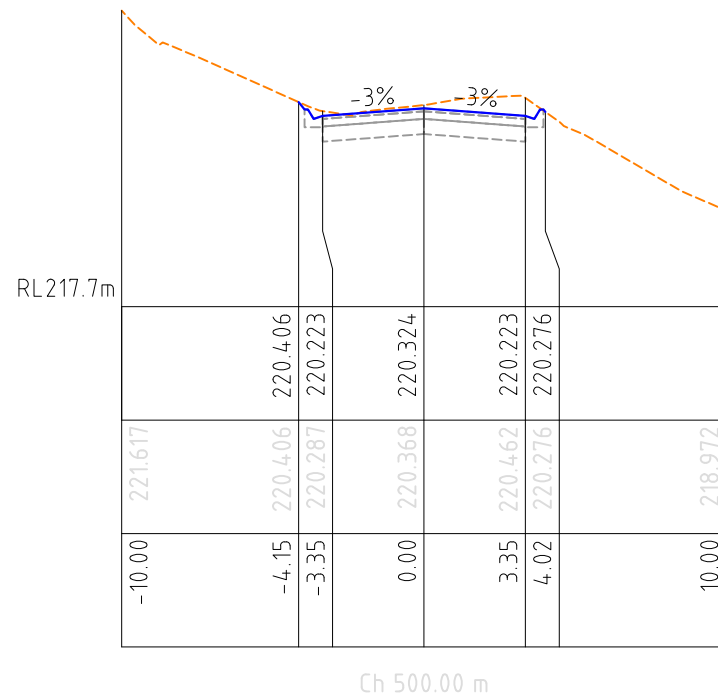
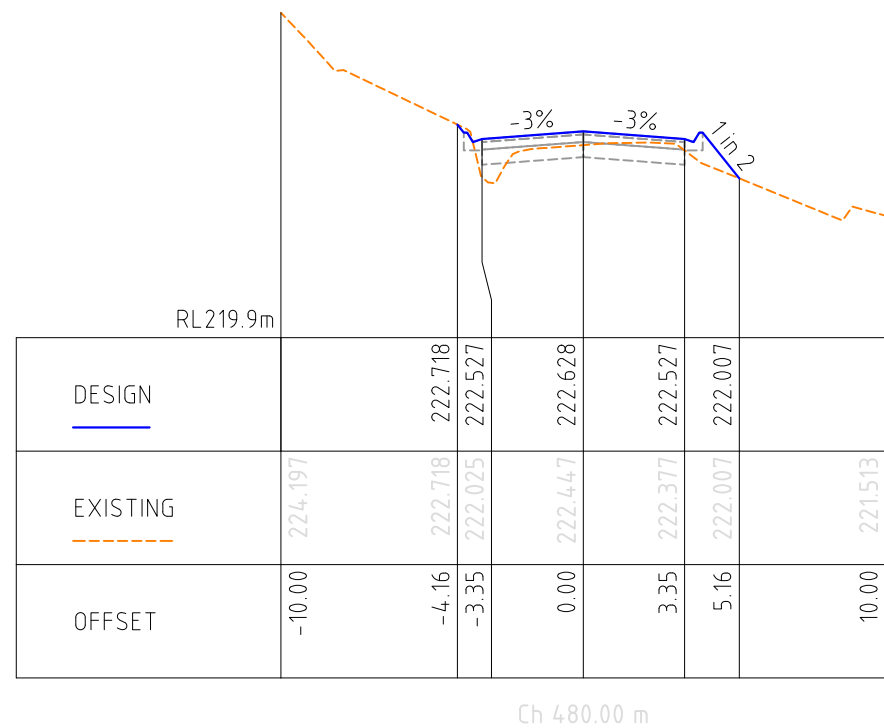
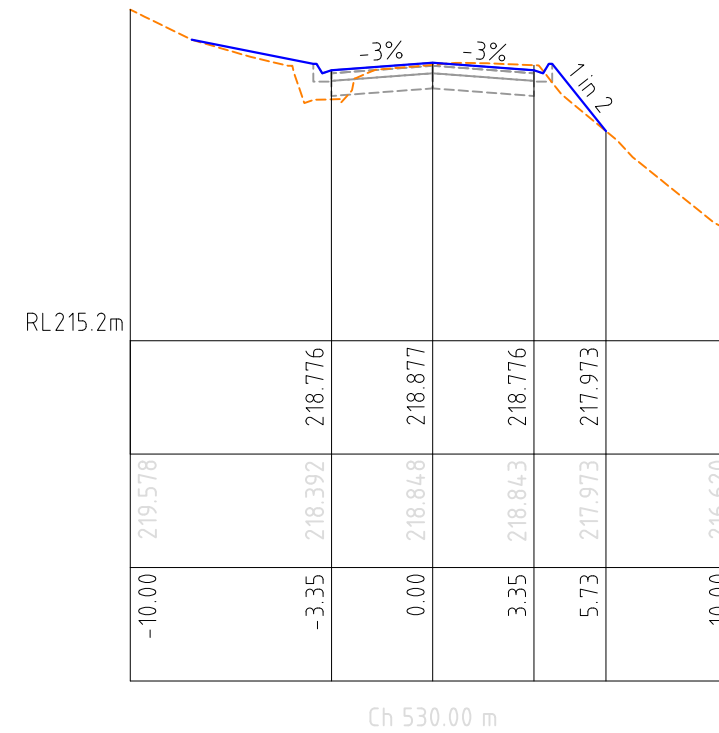
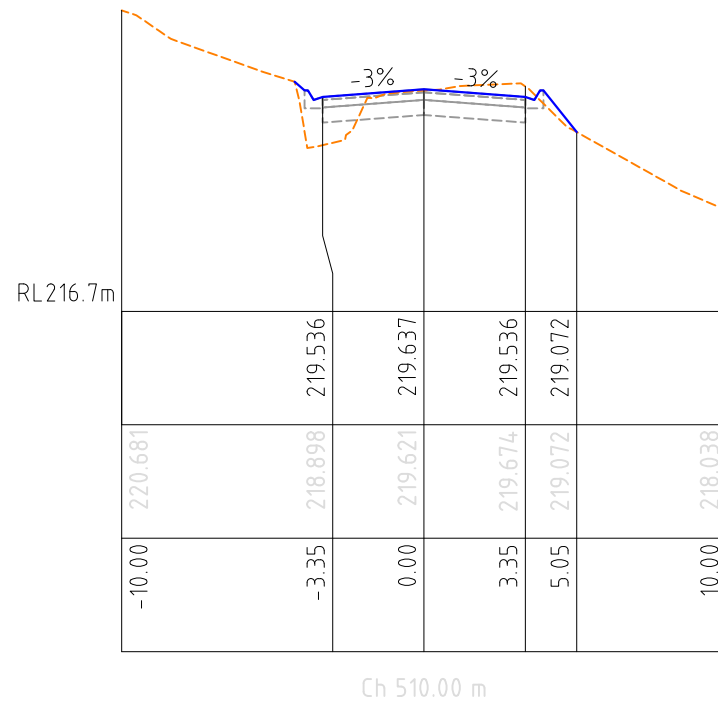
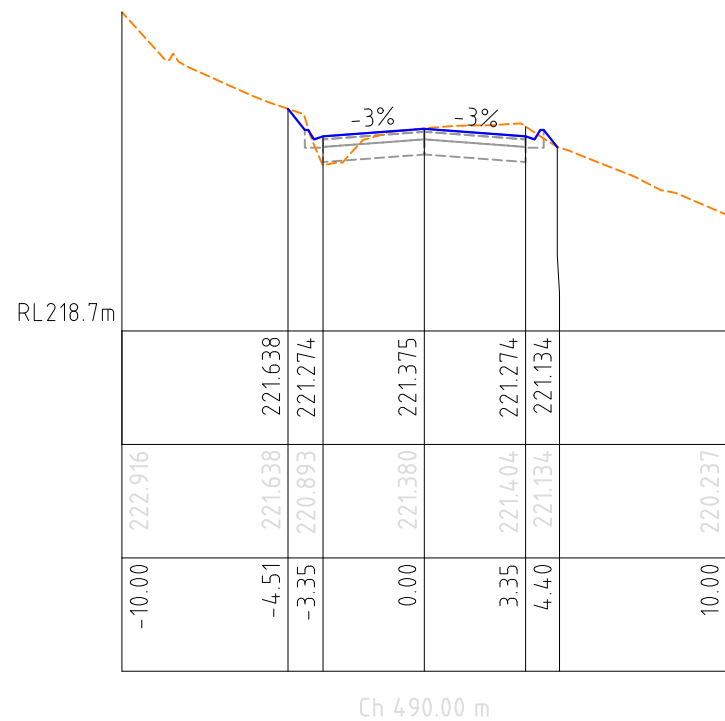


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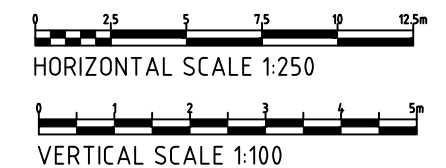
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Date:	Rev.	Amendments:	Legend		WATER MAINS AND FITTINGS		EX ---W---	THIS DOCUMENT/DRAWING IS PROTECTED BY FEDERAL COPYRIGHT LAW. COPYING IN ANY SHAPE OR FORM, WHOLE OR PART WITHOUT THE WRITTEN AUTHORISATION OF CRAIG CIVIL DESIGN PTY LTD. IS STRICTLY PROHIBITED. CIVIL PROCEEDINGS CLAIMING DAMAGES OR OTHER REMEDIES MAY BE BROUGHT AGAINST PERSONS FOUND COPYING THIS DOCUMENT.	Design:	JULY 2020	Scale:	AS SHOWN	<div> Civil Engineering Consultants & Project Managers A.C.N. 159 212 245 P.O. Box 1207, Narre Warren 3805 mail@jamisencraig.com.au</div> <div>Phone: 5995 4388 Fax: 5995 5330</div>		CARDINIA SHIRE COUNCIL		Drawing No	CCD.	
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			PROPOSED KERB AND CHANNEL			EX ---S---	Checked:		JULY 2020	Date:		COCKATOO			Sheet 82 OF 91				
			EXISTING DRAINS AND PITS		GAS MAINS	EX ---G---	Datum:		AHD	MELWAY	Ref:	ROAD RECONSTRUCTION WORKS			Rev A				
			PROPOSED DRAINS AND PITS			EX ---G---	CAROLINE AVENUE CROSS SECTION		CCD Ref. No. 20021										
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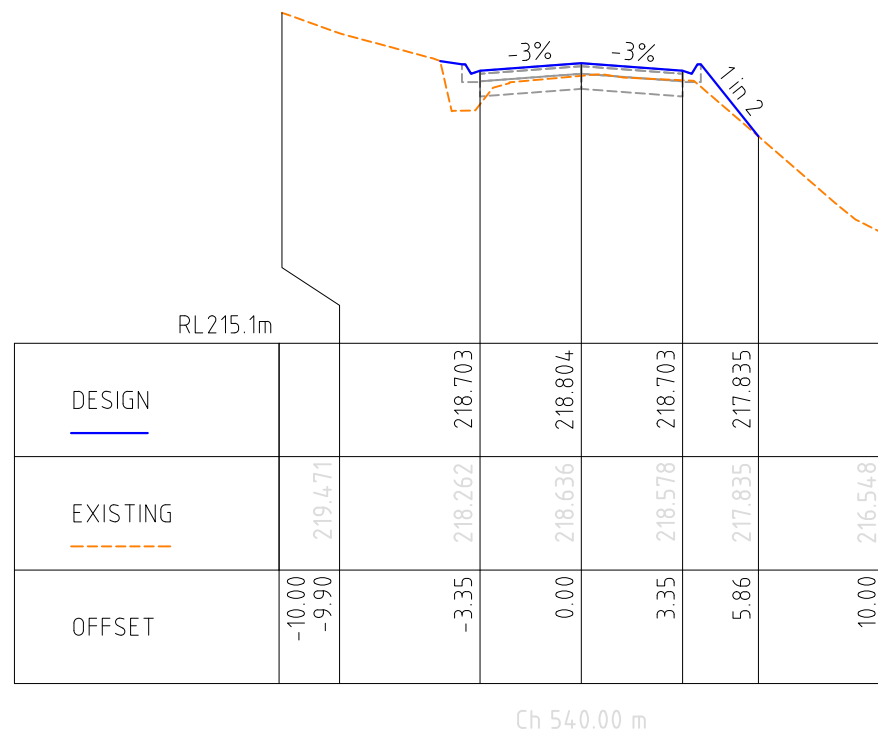


CAROLINE AVENUE CROSS SECTION

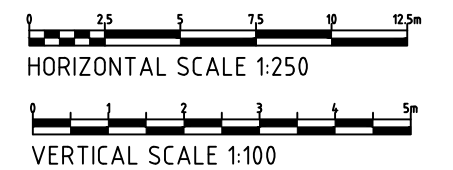
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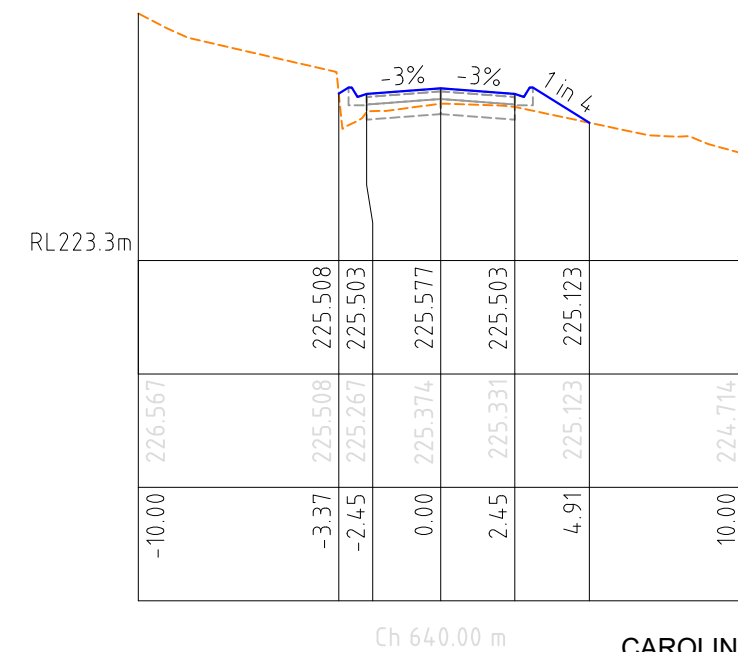
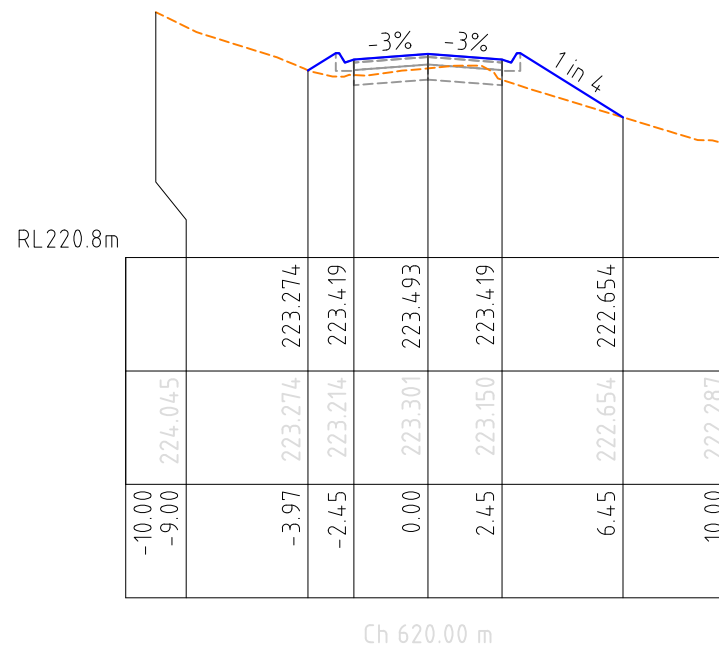
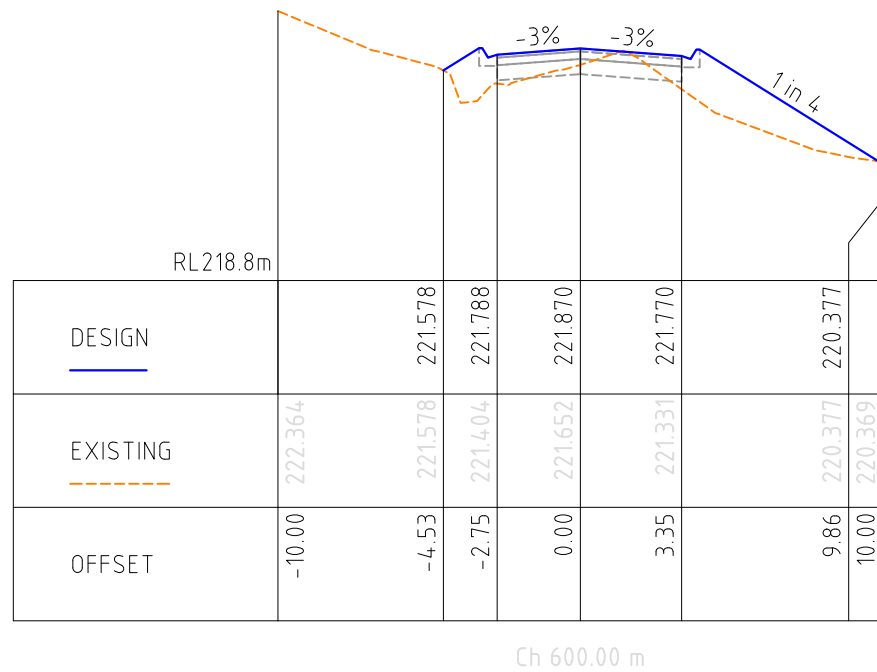
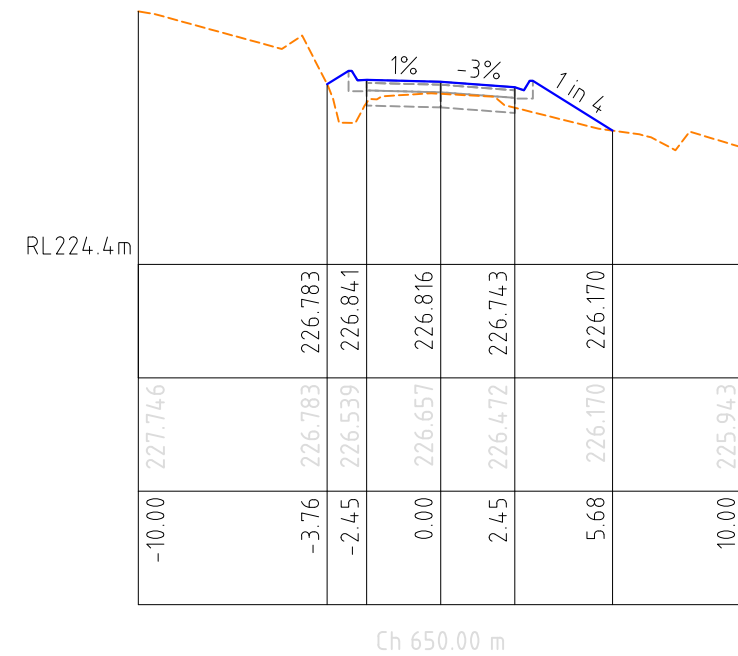
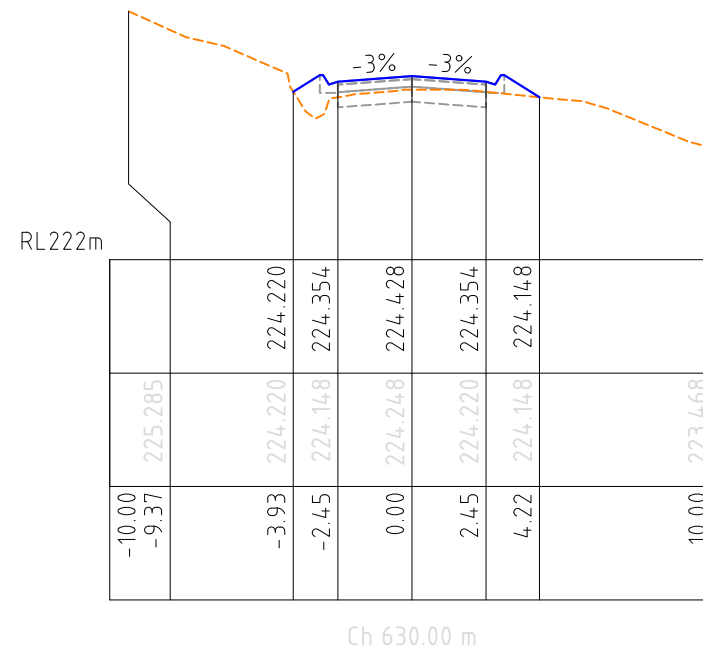
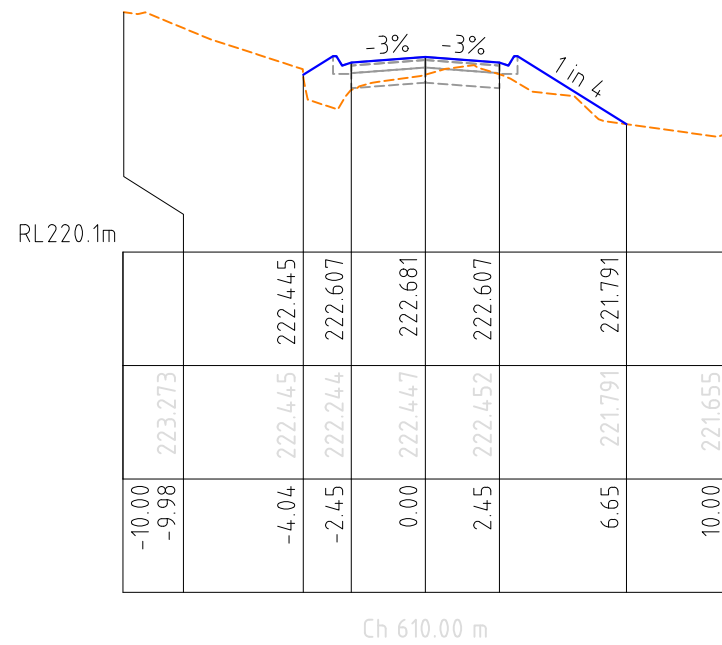
Date:	Rev.	Amendments:	Legend	WATER MAINS AND FITTINGS	EX	---W---	THIS DOCUMENT/DRAWING IS PROTECTED BY FEDERAL COPYRIGHT LAW. COPYING IN ANY SHAPE OR FORM, WHOLE OR PART WITHOUT THE WRITTEN AUTHORISATION OF CRAIG CIVIL DESIGN PTY LTD. IS STRICTLY PROHIBITED. CIVIL PROCEEDINGS CLAIMING DAMAGES OR OTHER REMEDIES MAY BE BROUGHT AGAINST PERSONS FOUND COPYING THIS DOCUMENT.	Design: JULY 2020	Scale: AS SHOWN	 Craig Civil Design Civil Engineering Consultants & Project Managers P.O. Box 1207, Narre Warren 3805 A.C.N. 198 212 245 Phone: 5995 4388 Fax: 5995 5330 mail@jamisoncraig.com.au	CARDINIA SHIRE COUNCIL	Drawing No CCD.
			EXISTING KERB AND CHANNEL	SEWER	EX	---W---		Checked: JULY 2020	Approved Date:		CAROLINE AVENUE & BORONIA CRESCENT	20021 83
			PROPOSED KERB AND CHANNEL	GAS MAINS	EX	---S---		Datum: AHD	MELWAY Ref:		COCKATOO	Sheet 83 OF 91
			EXISTING DRAINS AND PITS	TELECOM CABLES AND PITS	EX	---G---					ROAD RECONSTRUCTION WORKS	Rev A
01.04.2021	A	SUBMITTED FOR COMMENTS	PROPOSED DRAINS AND PITS		EX	---T---					CAROLINE AVENUE CROSS SECTION	CCD Ref. No. 20021
			PROPOSED PROPERTY INLET		EX	---T---						



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Date:	Rev.	Amendments:	<p>Legend</p> <p>EXISTING KERB AND CHANNEL </p> <p>PROPOSED KERB AND CHANNEL </p> <p>EXISTING DRAINS AND PITS </p> <p>PROPOSED DRAINS AND PITS </p> <p>PROPOSED PROPERTY INLET  P...</p> <p>WATER MAINS AND FITTINGS EX ---W--- PROP ---W--- SEWER EX ---S--- PROP ---S--- GAS MAINS EX ---G--- PROP ---G--- TELECOM CABLES AND PITS EX ---T--- PROP ---T---</p>	<p>THIS DOCUMENT/DRAWING IS PROTECTED BY FEDERAL COPYRIGHT LAW. COPYING IN ANY SHAPE OR FORM, WHOLE OR PART WITHOUT THE WRITTEN AUTHORISATION OF CRAIG CIVIL DESIGN PTY LTD. IS STRICTLY PROHIBITED.</p> <p>CIVIL PROCEEDINGS CLAIMING DAMAGES OR OTHER REMEDIES MAY BE BROUGHT AGAINST PERSONS FOUND COPYING THIS DOCUMENT.</p>	Design: Date: JULY 2020	Scale: AS SHOWN	 <p>Civil Engineering Consultants & Project Managers A.C.N. 159 212 245</p> <p>P.O. Box 1207, Narre Warren 3805 mail@jamisoncraig.com.au</p> <p>Phone: 5995 4388 Fax: 5995 5330</p>	<p>CARDINIA SHIRE COUNCIL CAROLINE AVENUE & BORONIA CRESCENT COCKATOO ROAD RECONSTRUCTION WORKS CAROLINE AVENUE CROSS SECTION</p>	Drawing No. CCD. 20021 84
					Checked: Date: JULY 2020	Approved Date:			Sheet 84 OF 91
					Datum: AHD	MELWAY Ref:			Rev A
01.04.2021	A	SUBMITTED FOR COMMENTS							CCD Ref. No. 20021



CAROLINE AVENUE CROSS SECTION


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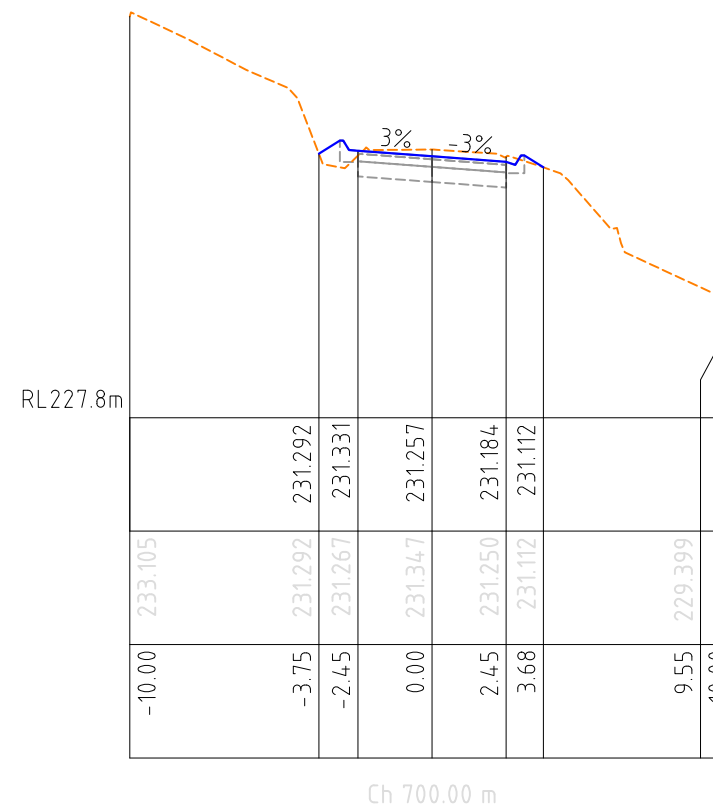
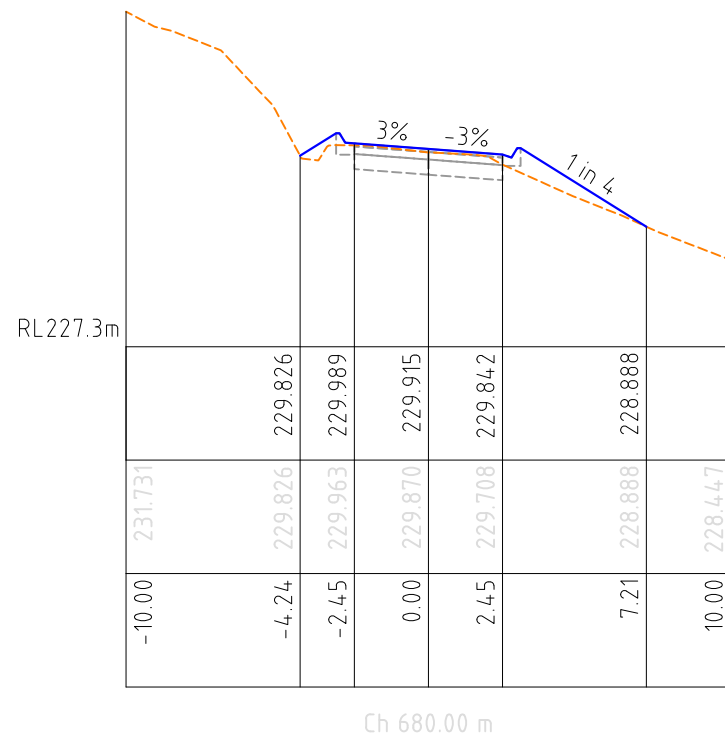
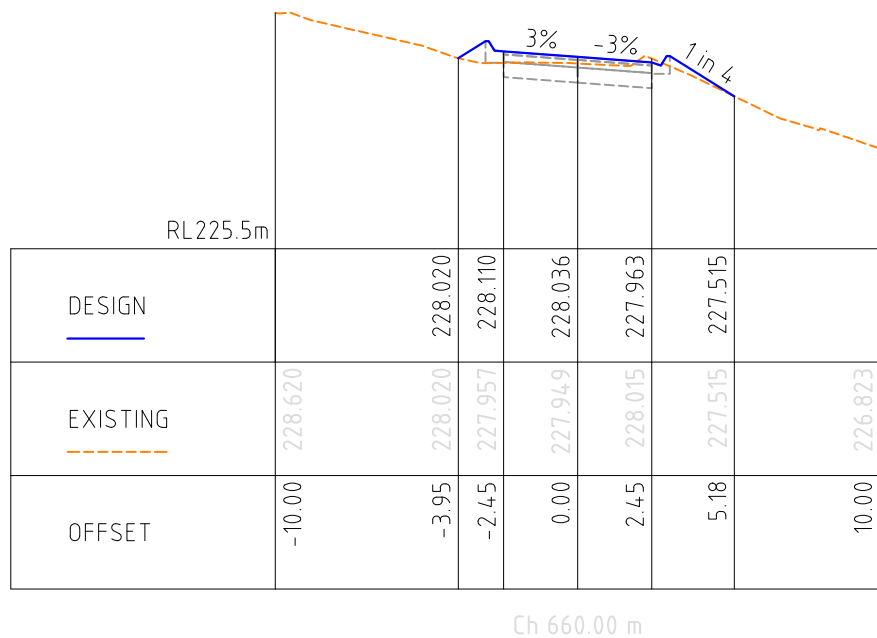
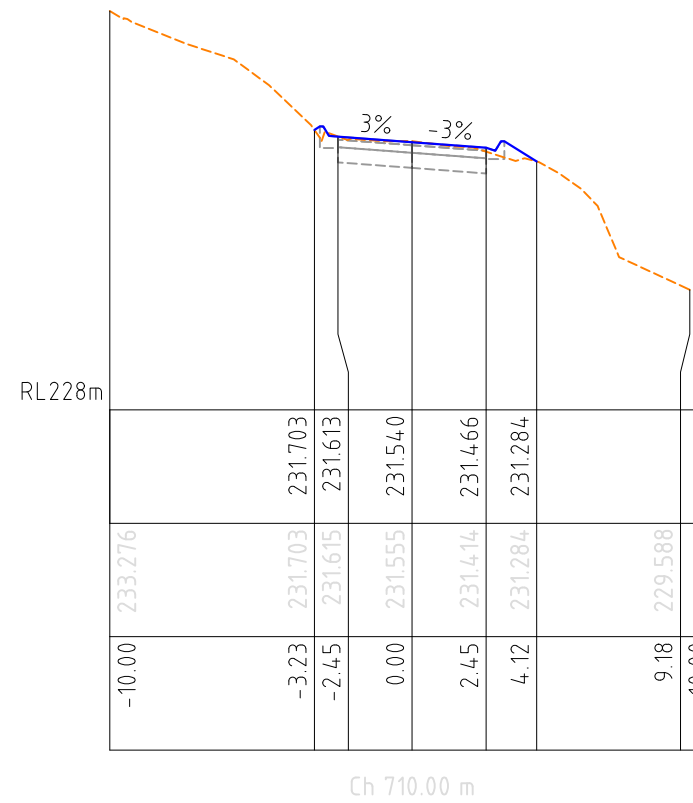
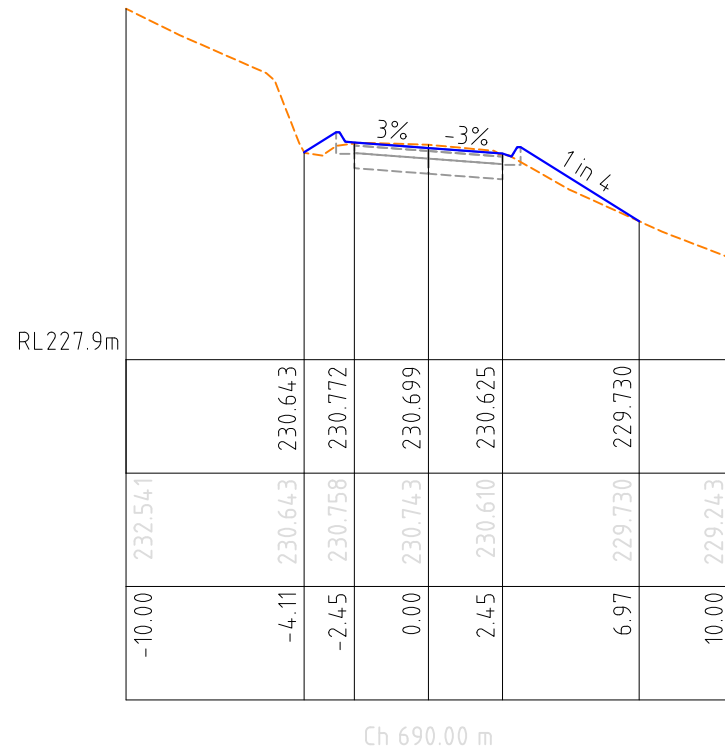
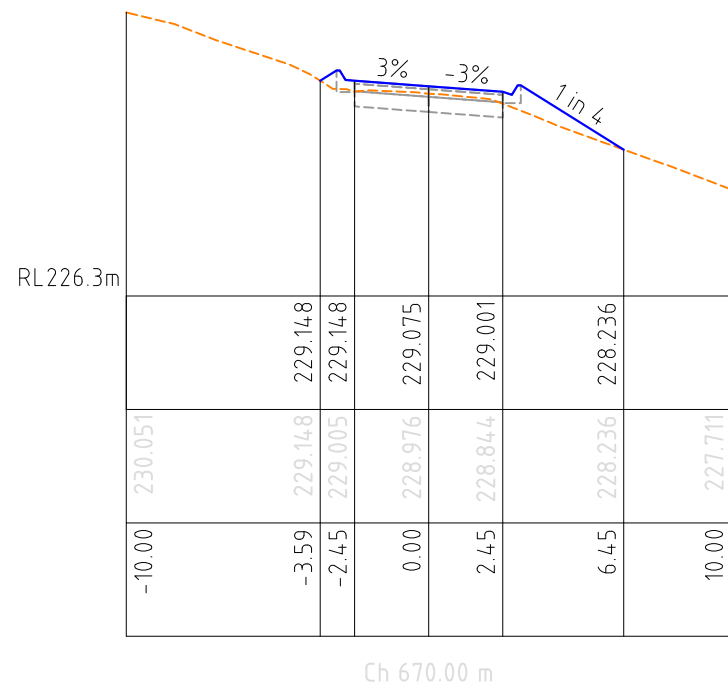


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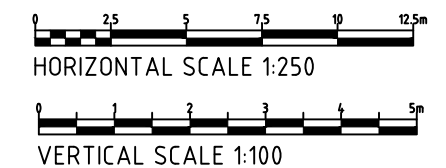
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				EX ---W---		DATE: JULY 2020	AS SHOWN					20021	85
				EX ---S---○		Checked:	Approved					Sheet	85 OF 91
				EX ---S---		DATE: JULY 2020	DATE:					Rev	A
01.04.2021	A	SUBMITTED FOR COMMENTS		EX ---G---		Datum:	MELWAY					CCD Ref. No.	20021



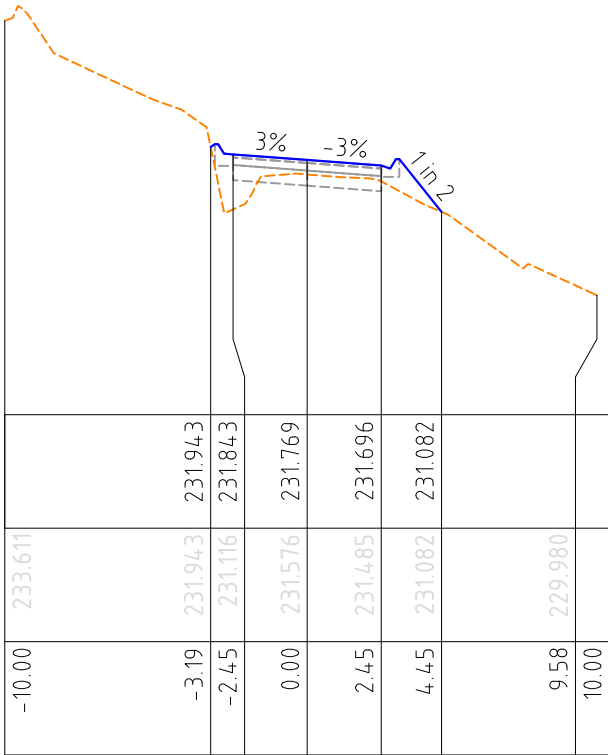
CAROLINE AVENUE CROSS SECTION

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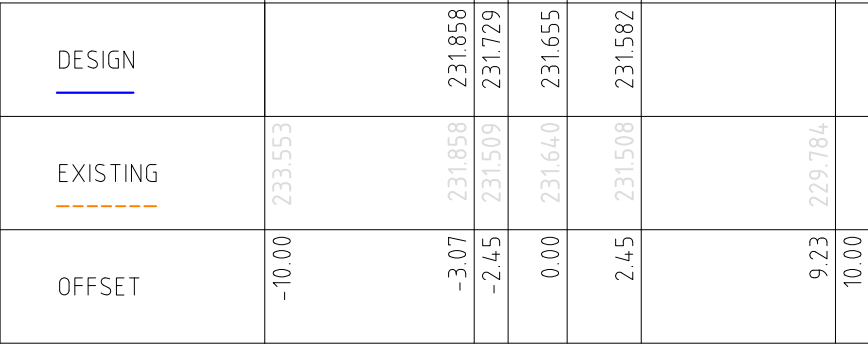
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			PROPOSED KERB AND CHANNEL	GAS MAINS	EX ---S---O		Checked:	Date:		COCKATOO	Sheet 86 OF 91
			EXISTING DRAINS AND PITS	TELECOM CABLES AND PITS	EX ---G---		Date:	MELWAY		ROAD RECONSTRUCTION WORKS	Rev A
01.04.2021	A	SUBMITTED FOR COMMENTS	PROPOSED DRAINS AND PITS		EX ---T---		Datum: AHD	Ref:		CAROLINE AVENUE CROSS SECTION	CCD Ref. No. 20021
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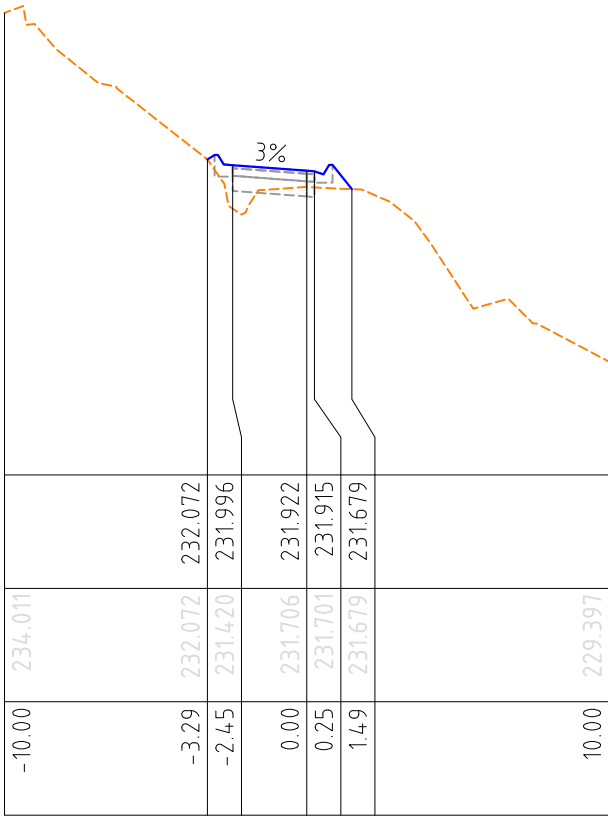
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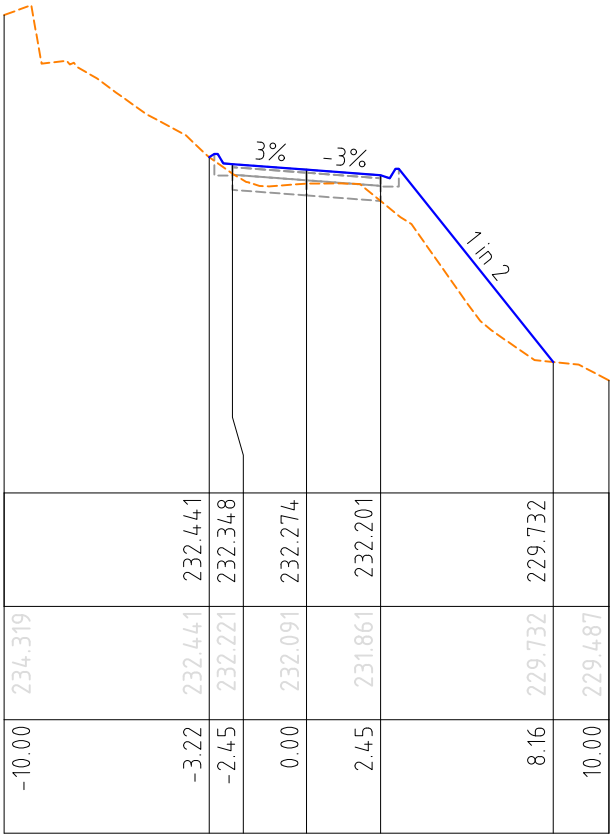
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RL228m



Ch 750.00 m

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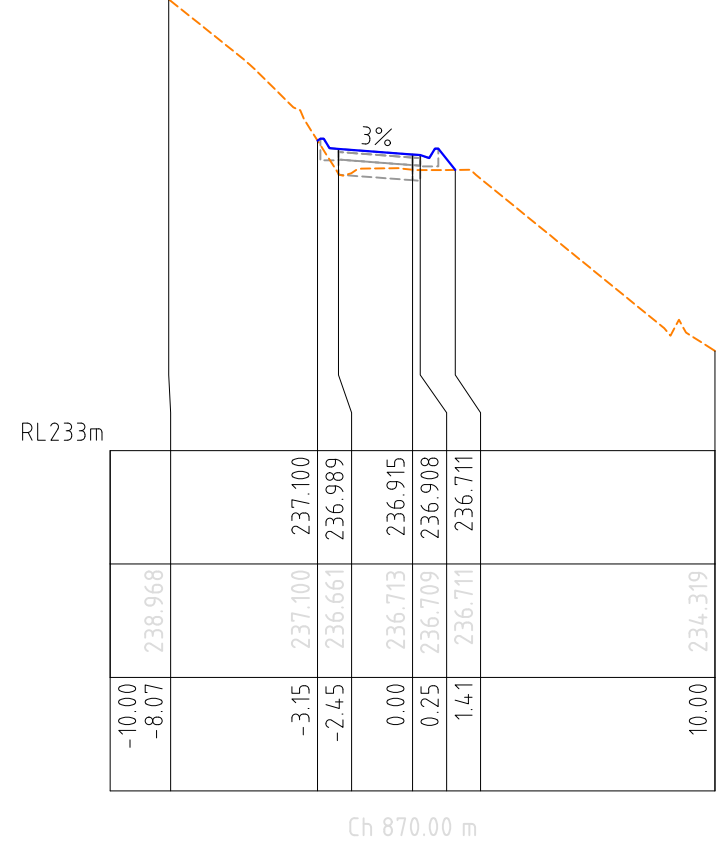
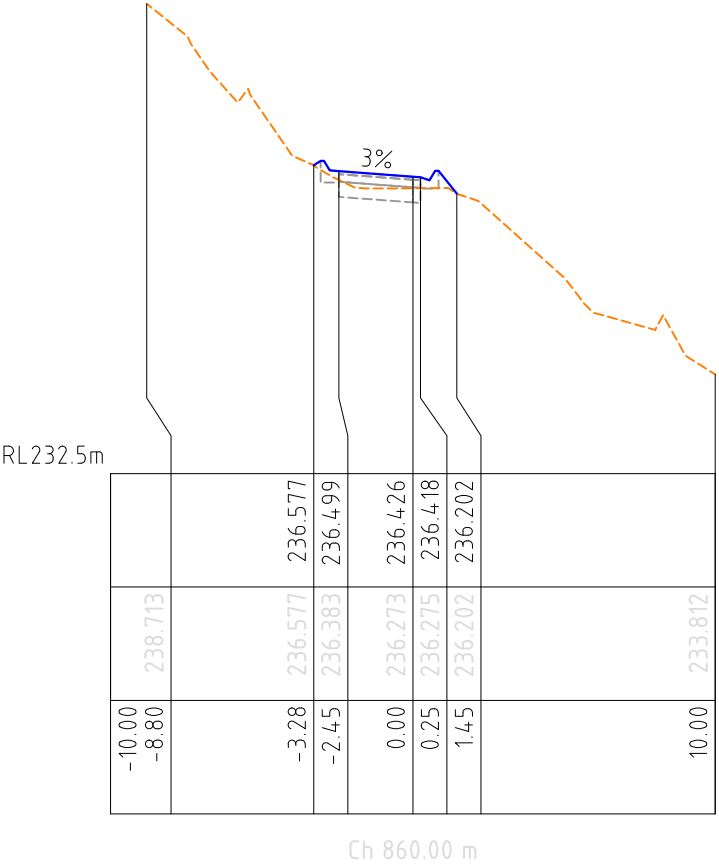
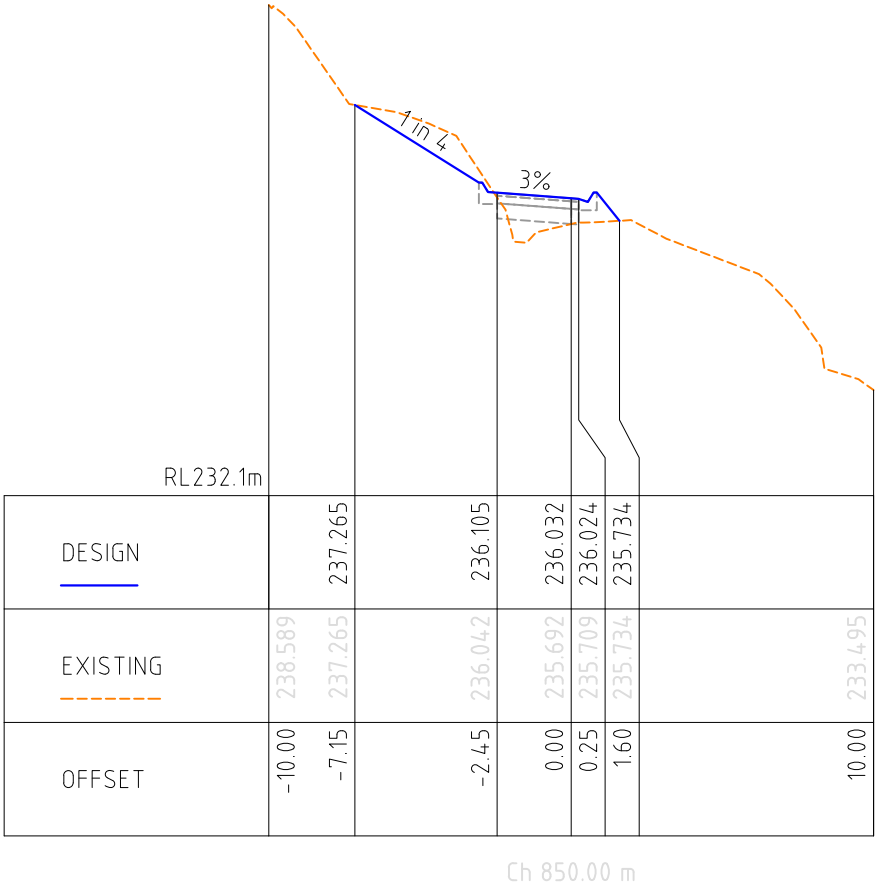


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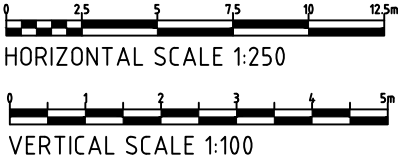
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			EXISTING DRAINS AND PITS	TELECOM CABLES AND PITS	EX ---G---		Date:	MELWAY		ROAD RECONSTRUCTION WORKS		Rev A
01.04.2021	A	SUBMITTED FOR COMMENTS	PROPOSED DRAINS AND PITS		EX ---T---		Datum: AHD	Ref:		CAROLINE AVENUE CROSS SECTION		CCD Ref. No. 20021
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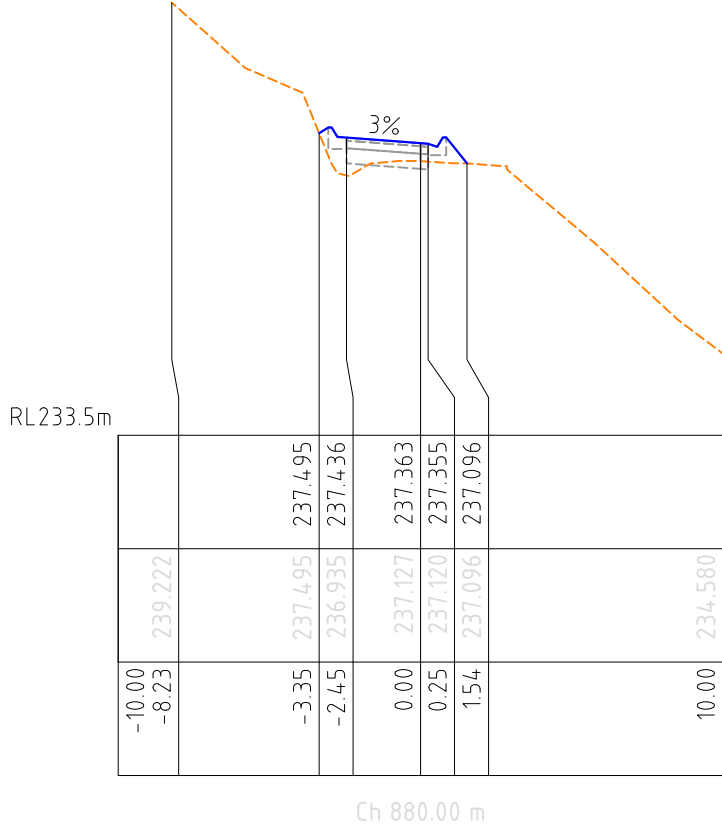
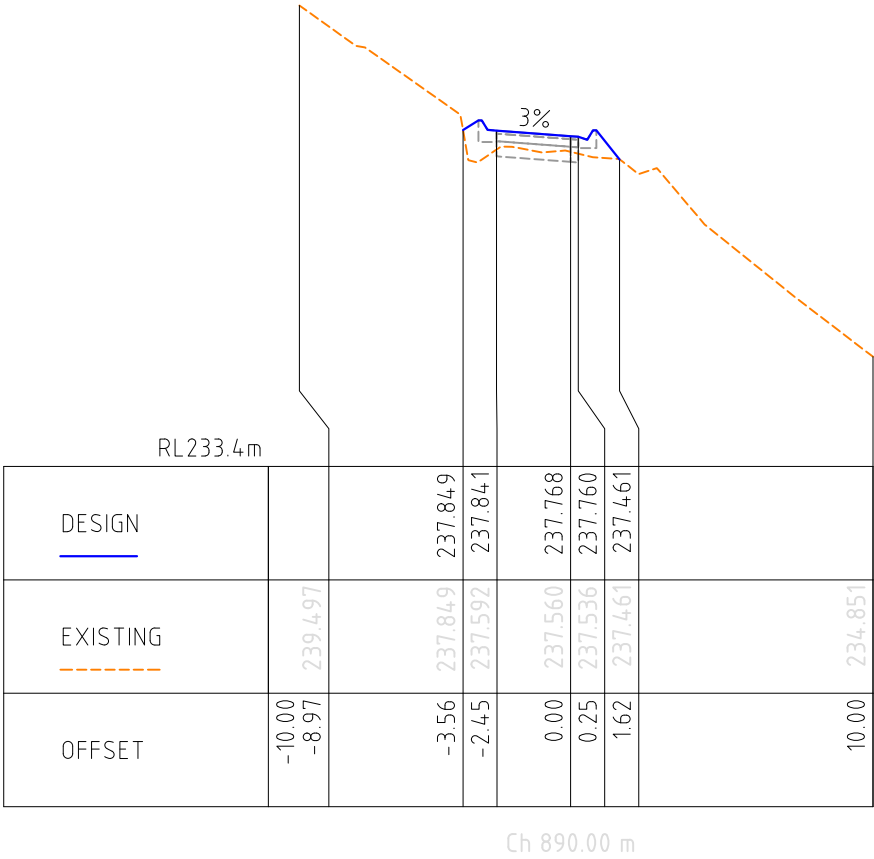


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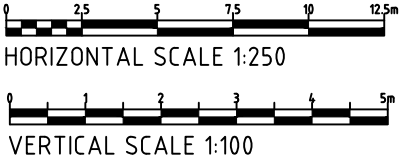



Date:	Rev.	Amendments:	<div><div>Legend</div><div><div>EXISTING KERB AND CHANNEL</div><div>PROPOSED KERB AND CHANNEL</div><div>EXISTING DRAINS AND PITS</div><div>PROPOSED DRAINS AND PITS</div><div>PROPOSED PROPERTY INLET</div></div><div><div>WATER MAINS AND FITTINGS</div><div>SEWER</div><div>GAS MAINS</div><div>TELECOM CABLES AND PITS</div></div></div>	<div><div>EX</div><div>PROP</div><div>EX</div><div>PROP</div><div>EX</div><div>PROP</div><div>EX</div><div>PROP</div><div>EX</div><div>PROP</div><div>EX</div><div>PROP</div></div> <div><div>---W---</div><div>---W---</div><div>---S---</div><div>---S---</div><div>---G---</div><div>---G---</div><div>---T---</div><div>---T---</div><div>---T---</div><div>---T---</div><div>---T---</div><div>---T---</div></div> <div><div>THIS DOCUMENT/DRAWING IS PROTECTED BY FEDERAL COPYRIGHT LAW. COPYING IN ANY SHAPE OR FORM, WHOLE OR PART WITHOUT THE WRITTEN AUTHORISATION OF CRAIG CIVIL DESIGN PTY LTD. IS STRICTLY PROHIBITED. CIVIL PROCEEDINGS CLAIMING DAMAGES OR OTHER REMEDIES MAY BE BROUGHT AGAINST PERSONS FOUND COPYING THIS DOCUMENT.</div></div>	<div>Design: JULY 2020</div> <div>Checked: JULY 2020</div> <div>Date: JULY 2020</div> <div>Datum: AHD</div>	<div>Scale: AS SHOWN</div> <div>Approved Date: MELWAY</div> <div>Ref:</div>	<div><div>Craig Civil Design</div><div>Civil Engineering Consultants & Project Managers</div><div>P.O. Box 1207, Narre Warren 3805</div><div>mail@jamisoncraig.com.au</div><div>Phone: 5995 4388</div><div>Fax: 5995 5330</div></div>	<div>CARDINIA SHIRE COUNCIL</div> <div>CAROLINE AVENUE & BORONIA CRESCENT</div> <div>COCKATOO</div> <div>ROAD RECONSTRUCTION WORKS</div> <div>CAROLINE AVENUE CROSS SECTION</div>	<div>Drawing No</div> <div>CCD.</div> <div>20021</div> <div>90</div> <div>Sheet</div> <div>90 OF 91</div> <div>Rev</div> <div>A</div> <div>CCD Ref. No.</div> <div>20021</div>									
01.04.2021	A	SUBMITTED FOR COMMENTS																



CAROLINE AVENUE CROSS SECTION

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Date:	Rev.	Amendments:	Legend		WATER MAINS AND FITTINGS	EX	---	W	---	THIS DOCUMENT/DRAWING IS PROTECTED BY FEDERAL COPYRIGHT LAW. COPYING IN ANY SHAPE OR FORM, WHOLE OR PART WITHOUT THE WRITTEN AUTHORISATION OF CRAIG CIVIL DESIGN PTY LTD. IS STRICTLY PROHIBITED. CIVIL PROCEEDINGS CLAIMING DAMAGES OR OTHER REMEDIES MAY BE BROUGHT AGAINST PERSONS FOUND COPYING THIS DOCUMENT.	Design:	Date:	JULY 2020	Scale:	AS SHOWN	 Civil Engineering Consultants & Project Managers P.O. Box 1207, Narre Warren 3805 mail@jamisoncraig.com.au Phone: 5995 4388 Fax: 5995 5330	CARDINIA SHIRE COUNCIL CAROLINE AVENUE & BORONIA CRESCENT COCKATOO ROAD RECONSTRUCTION WORKS CAROLINE AVENUE CROSS SECTION			Drawing No CCD.	20021 91
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			EXISTING DRAINS AND PITS	GAS MAINS	PROP	---	G	---										CCD Ref. No.	20021		
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