

Dear [REDACTED]

Thank you for your request, received on 14 July. You requested the following information, under the Local Government Official Information and Meetings Act 1987 (LGOIMA):

“Plans for the Dyers Pass Road Guardrails and copies of the rational and evidence supporting the case for the barriers”.

Please find below a link the following documents. Please ensure you download and save the files as the link is only active for 14 days.

- Dyers Pass Road Guardrails Tender Site Plans
- Dyers Pass Road Guardrails Rational and Business Case

<https://christchurchcitycouncil.sharefile.com/d-s220897b24d194f66bf852bc2d485d5b2>

You will note a small redaction has been made, this is being withheld under the following section of the LGOIMA:

- 7(2)(a) – to protect the privacy of natural persons

For your reference, below is a link to the agenda and minutes from the Spreydon-Cashmere Community Board and Banks Peninsula Community Board meeting on 2 March 2018 in which the proposed safety improvements and speed limit change are addressed.

Agenda - https://christchurch.infocouncil.biz/Open/2018/03/JSBB_20180302_AGN_2618_AT.PDF

Minutes - https://christchurch.infocouncil.biz/Open/2018/03/JSBB_20180302_MIN_2618_AT.PDF

The purpose of this project is to improve safety by installing guardrails in high-risk locations, which should reduce the severity of crashes where vehicles leave the road. In the area where new guardrails are being installed, the sealed road width will be increased by 1.25m providing more space for all road users. On the uphill side of the roadway where guardrails are being installed, a new 0.5m sealed shoulder will provide additional space as part of the 1.25m widening. Please be assured that these works are improving the safety of the road for users.

If you require any clarification, please let me know.

You have the right to ask the Ombudsman to investigate and review our decision. Complaints can be sent by email to info@ombudsman.parliament.nz.

Publication of responses to LGOIMA requests

Please note: our LGOIMA responses may be published on the Christchurch City Council website a month after they have been responded to, with requesters' personal details withheld. If you have any concerns about this please contact the Official Information team on officialinformation@ccc.govt.nz.

Yours sincerely,

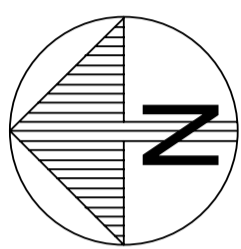
Ana Macadie

Information Advisor

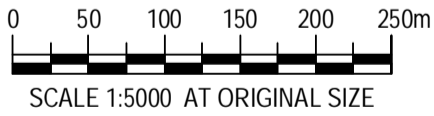
Office of the Mayor and Chief Executive

DYERS PASS ROAD - SAFETY IMPROVEMENTS

SITE 1 - CH3244 TO 3420



LOCATION PLAN
SCALE 1:5000



FOR TENDER
NOT FOR CONSTRUCTION

C	FOR TENDER	DM*	14/02/20
B	FOR SAFETY AUDIT	DM*	22/10/19
A	PRELIMINARY		
ISSUE	AMENDMENTS	SIGNED	DATE

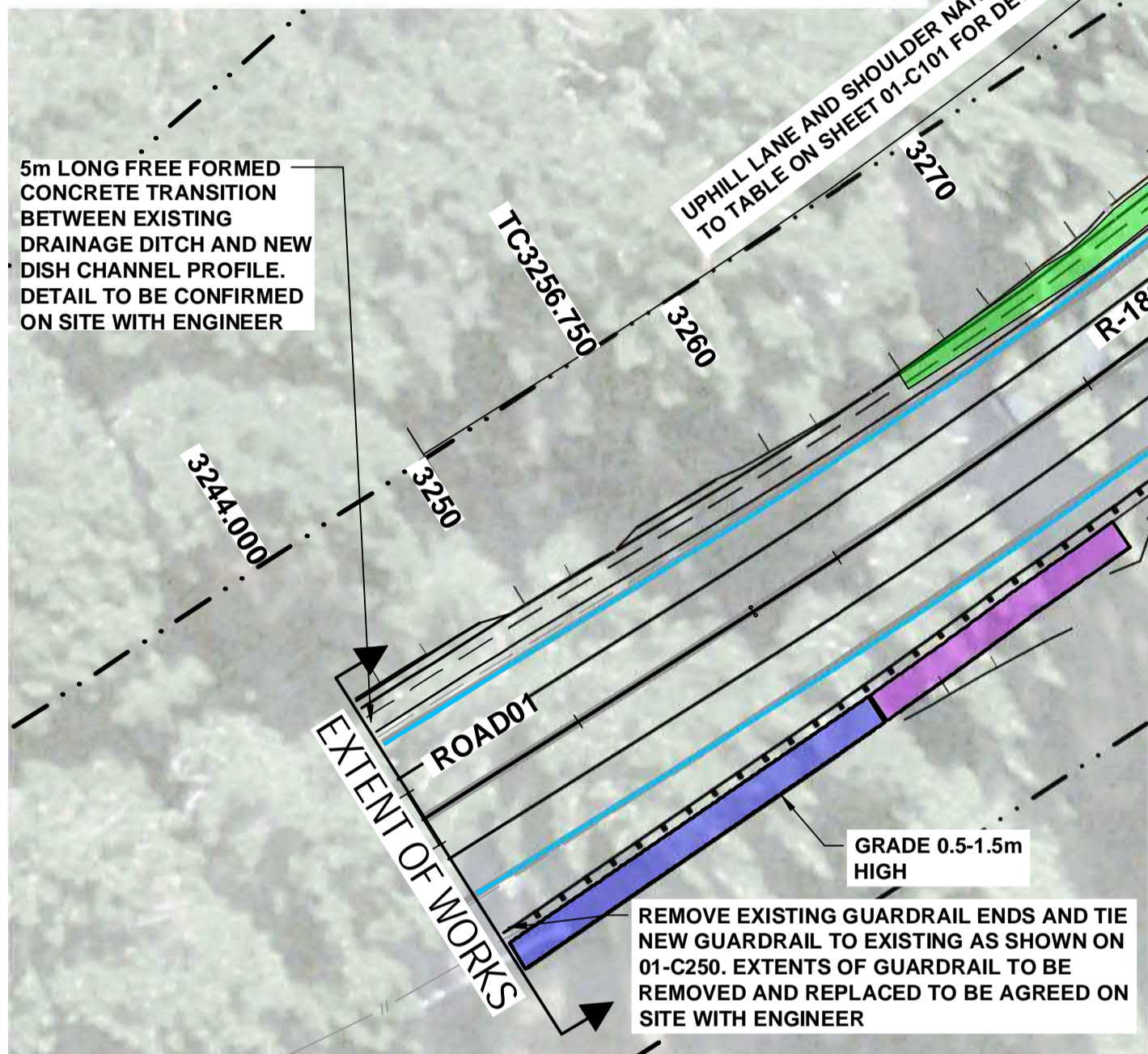
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<div><div>Christchurch</div><div>City Council</div><div></div></div> <div>TECHNICAL SERVICES AND DESIGN</div>	DATUM	C.D.D.	NAME	SIGNED	DATE	APPROVED		<div>CONSULTANT</div> <div></div> <div>Level 3, 138 Victoria Street, Christchurch 8013 New Zealand T 64 3 378 0900 F 64 3 377 8575 E chomail@ghd.co.nz W www.ghd.co.nz</div>	PROJECT TITLE <div>DYERS PASS ROAD SAFETY IMPROVEMENTS SITE 1 - CH3244 TO 3420</div> <div>This Drawing must not be used for Construction unless signed as Approved</div>		DRAWING TITLE <div>COVER SHEET AND LOCATION PLAN</div>		CONTRACT NUMBER		ORIGINAL SHEET SIZE <div>A1</div>	SCALES 1:5000		
	CAD DRAWING FILE REF.		DO NOT SCALE															
	GPS PROJECT FILE NUMBER																	
	DRAIN. REF.		DATE		SIGNED		CONSULTANT DRAWING SHEET REF. 01-C001						CONSULTANT FILE REF. 51-38096		SHEET 1		OF 14	
	SAP WBS																	



LOCATION PLAN

SCALE: NTS



SITE PLAN

SCALE 1:200

LEGEND	
	NEW 100mm WIDE EDGE LINE
	PROPOSED CENTRE LINE
	PROPOSED OFFSET DISH CHANNEL
	PROPOSED BARRIER WITH CONTINUOUS MOTORCYCLE PROTECTION RAIL
	PROPOSED 1.5m GABION WALL
	PROPOSED 1.0m GABION WALL
	PROPOSED 0.5m GABION WALL
	PROPOSED HILLSIDE CUT
	PROPOSED CULVERT EXTENSION AND OUTLET
	PROPOSED SUMP
LEGEND - EXISTING	
	BOUNDARY
	EDGE LINE
	CENTRELINE
	EDGE OF SEAL
	FENCE
	TOP OF BATTER
	BOTTOM OF BATTER
	WALL TOP
	WALL BOTTOM
	SUMP
	HEADWALL

DATUM RL. 223.00

VERTICAL ALIGNMENT																							
HORIZONTAL ALIGNMENT																							
LEVEL DIFFERENCE CUT - / FILL +	0.00	-0.00	0.00	0.01	-0.00	0.00	0.01	0.03	0.00	-0.00	-0.01	-0.02	-0.02	-0.00	0.04	-0.01	-0.00	0.00	0.01	0.01	-0.01	0.00	0.00
DESIGN SURFACE LEVEL	238.215	238.542	238.909	239.086	239.614	239.757	239.912	240.255	240.879	241.143	241.527	241.732	242.041	242.201	242.428	242.757	242.890	243.018	243.080	243.099	243.162	243.194	243.206
EXISTING SURFACE LEVEL	238.22	238.54	238.91	239.08	239.62	239.75	239.91	240.23	240.87	241.15	241.53	241.75	242.06	242.20	242.38	242.76	242.89	243.02	243.07	243.09	243.15	243.19	243.20
CHAINAGE CENTRE LINE	3244.00	3250.00	3256.75	3260.00	3269.71	3272.21	3274.71	3280.00	3289.44	3293.72	3300.00	3303.72	3310.00	3313.72	3319.23	3330.00	3334.32	3339.32	3342.82	3344.32	3350.00	3360.00	3364.00

LONGITUDINAL SECTION - ROAD01

HORZ 1:200 VERT 1:200

0 2 4 6 8 10m
SCALE 1:200 AT ORIGINAL SIZE

IMPORTANT SERVICES NOTE:

THE SERVICES SHOWN SHALL BE CONSIDERED INDICATIVE, AND ARE BASED ON RECORDS SUPPLIED BY THE SERVICE AUTHORITIES. PRIVATE CONNECTIONS AND SERVICES ARE NOT SHOWN. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING ALL SERVICES ARE LOCATED AND MARKED BY THE APPROPRIATE SERVICE AUTHORITY, OR THEIR OWN STAFF, PRIOR TO ANY SITEWORKS, AND FOR PROTECTING THESE SERVICES FOR THE DURATION OF THE CONTRACT.

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 TECHNICAL SERVICES AND DESIGN	DATUM	C.D.D.	NAME	SIGNED	DATE	APPROVED	CONSULTANT	PROJECT TITLE DYERS PASS ROAD SAFETY IMPROVEMENTS SITE 1 - CH3244 TO 3420	DRAWING TITLE SITE PLAN AND LONGITUDINAL SECTION SHEET 1	CONTRACT NUMBER CAD DRAWING FILE REF. CPG PROJECT FILE NUMBER	ORIGINAL SHEET SIZE A1 DO NOT SCALE	SCALES 1:200 4 OF 14
	BENCH MK.		DESIGNED	A. MALDEN	AM*	14/02/20	FOR TENDER					
	RL		DES. REVIEW	A. WATT	AW*	14/02/20	DATE					
	SURVEY		DRAWN	G. ALDERSLEY	GA*	14/02/20	DM*					
	SURVEY LB		DRW. CHECK	G. DOUGHERTY	GD*	14/02/20	FOR CONSTRUCTION	CONSULTANT DRAWING SHEET REF. 01-C100	CONSULTANT FILE REF. 51-38096	This Drawing must not be used for Construction unless signed as Approved		
	DRAIN. REF.		© COPYRIGHT CHRISTCHURCH CITY COUNCIL AERIAL PHOTOGRAPHY © COPYRIGHT TERRALINK INTERNATIONAL LIMITED				DATE					
	SAP WBS						SIGNED					

PLOT DATE: 14 February, 2020 - 4:30 PM

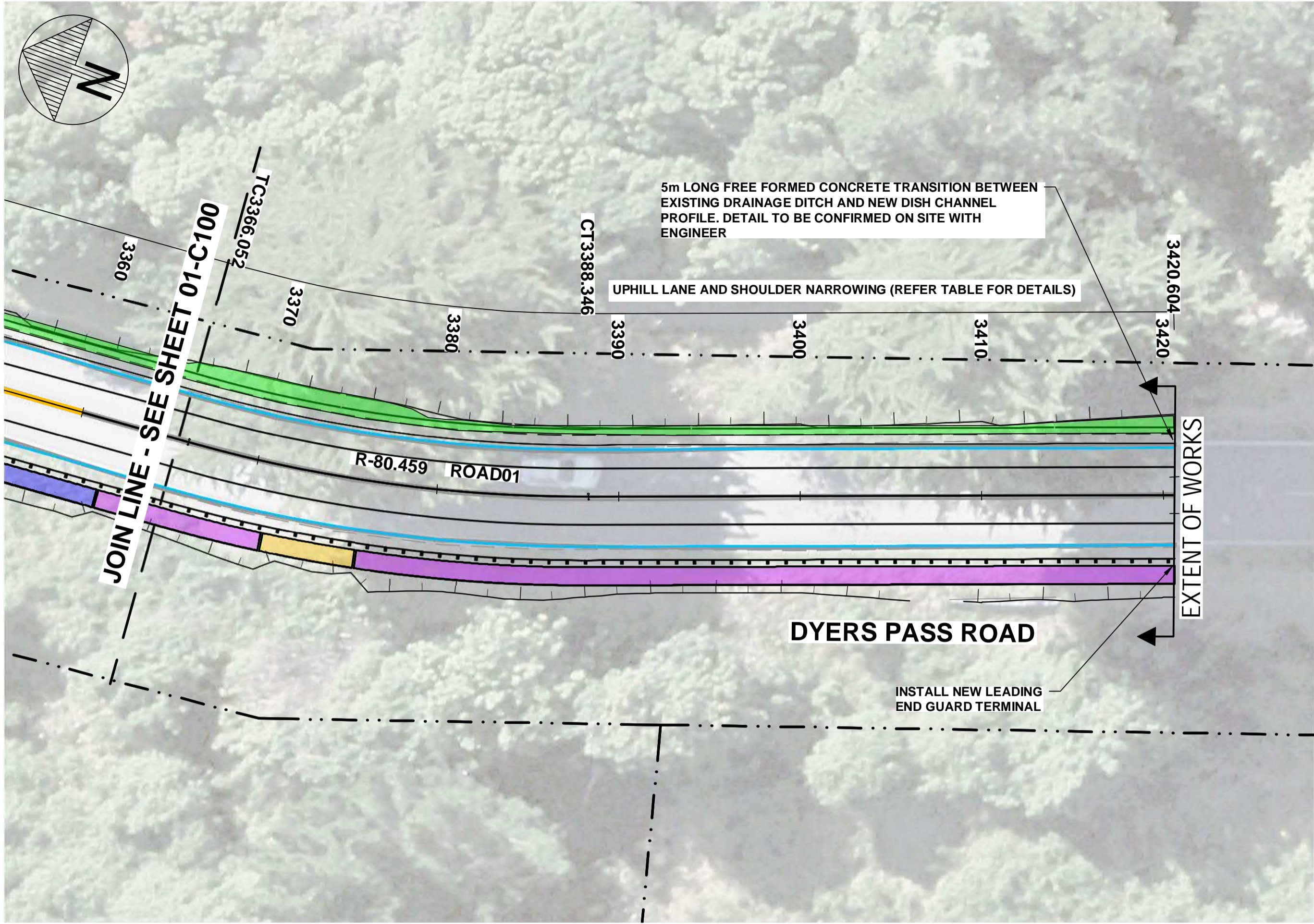
BY: Gina Aldersley

Note: * indicates signatures on original issue of drawing or last revision of drawing

CAD FILE NO: G:\5138096\CADD\Drawing\51-38096-01-C100_C101.dwg



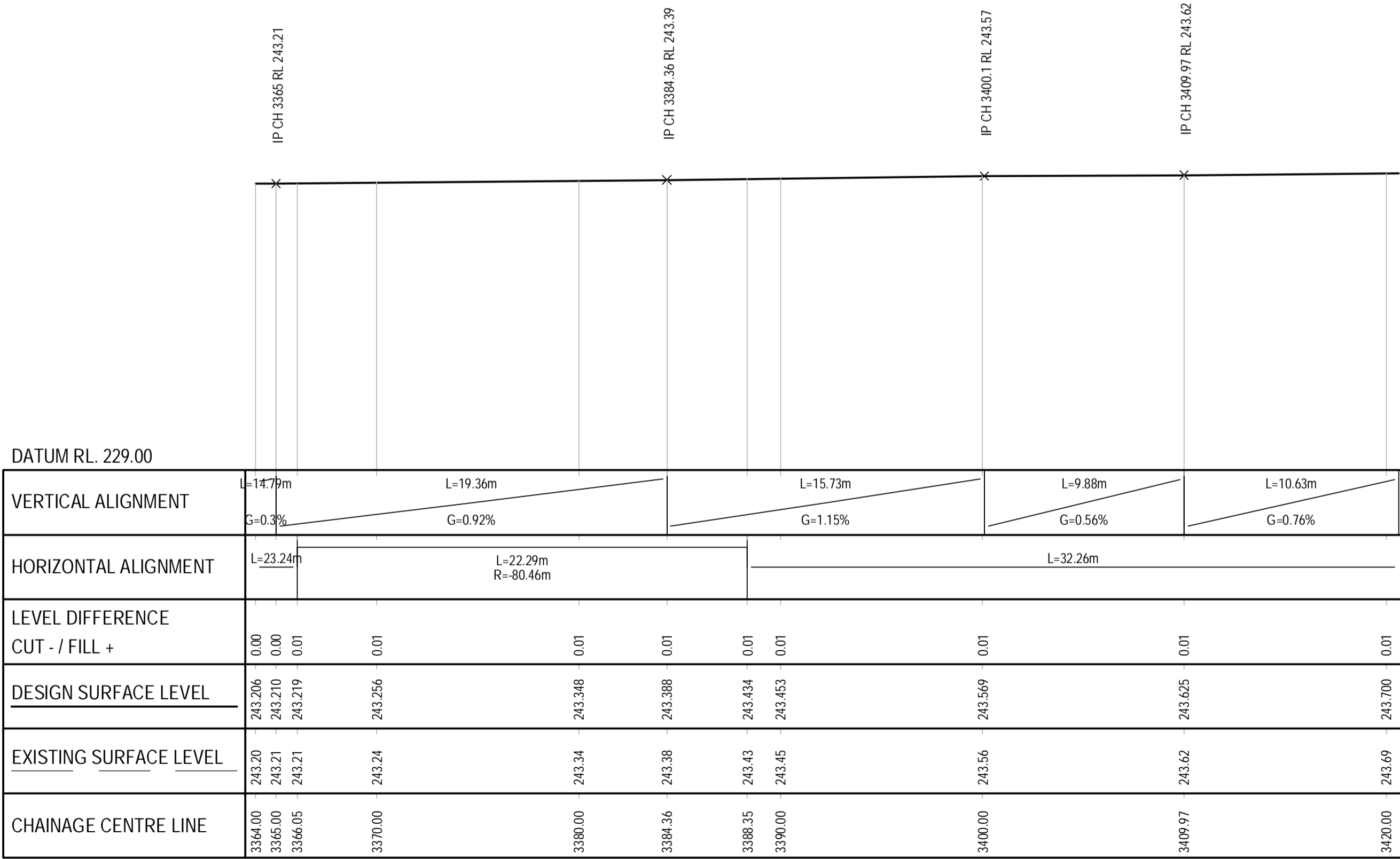
LOCATION PLAN
SCALE: NTS



SITE PLAN
SCALE 1:200

LEGEND	
	NEW 100mm WIDE EDGE LINE
	PROPOSED CENTRE LINE
	PROPOSED OFFSET DISH CHANNEL
	PROPOSED BARRIER WITH CONTINUOUS MOTORCYCLE PROTECTION RAIL
	PROPOSED 1.5m GABION WALL
	PROPOSED 1.0m GABION WALL
	PROPOSED 0.5m GABION WALL
	PROPOSED HILLSIDE CUT
	PROPOSED CULVERT EXTENSION AND OUTLET
	PROPOSED SUMP
LEGEND - EXISTING	
	BOUNDARY
	EDGE LINE
	CENTRELINE
	EDGE OF SEAL
	FENCE
	TOP OF BATTER
	BOTTOM OF BATTER
	WALL TOP
	WALL BOTTOM
	SUMP
	HEADWALL

ROAD NARROWING TABLE	
LOCATION	DETAILS
R3270-RP3380 (+20m TRANSITION EITHER SIDE)	UPHILL LANE 2.6m UPHILL SHOULDER 0.25m BACK OF CHANNEL 0m
RP3351-RP3420 (+20m TRANSITION EITHER SIDE)	UPHILL LANE 2.6m UPHILL SHOULDER 0.25m BACK OF CHANNEL 0m



LONGITUDINAL SECTION - ROAD01
HORZ 1:200 VERT 1:200

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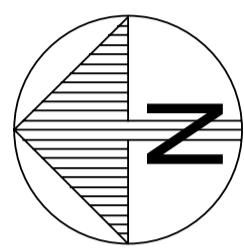
C	FOR TENDER	DM*	14/02/20
B	FOR SAFETY AUDIT	DM*	22/10/19
A	PRELIMINARY		
ISSUE	AMENDMENTS	SIGNED	DATE

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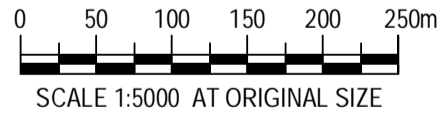
Christchurch City Council TECHNICAL SERVICES AND DESIGN		DATUM BENCH MK. RL SURVEY SURVEY LB DRAIN. REF. SAP. WBS	C.D.D. DESIGNED DES. REVIEW DRAWN DRW. CHECK DRAIN. REF. SAP. WBS	NAME A. MALDEN A. WATT G. ALDERSLEY G. DOUGHERTY CHRISTCHURCH CITY COUNCIL AERIAL PHOTOGRAPHY © COPYRIGHT TERRALINK INTERNATIONAL LIMITED	SIGNED AM* AW* GA* GD* DATE 14/02/20 14/02/20 14/02/20	DATE 14/02/20 14/02/20 14/02/20	APPROVED FOR TENDER DATE 14/02/20 DM*	FOR CONSTRUCTION DATE 14/02/20 SIGNED	CONSULTANT GHD Level 3, 138 Victoria Street, Christchurch 8013 New Zealand T 64 3 378 0900 F 64 3 377 8575 E chomail@ghd.co.nz W www.ghd.co.nz CONSULTANT DRAWING SHEET REF. 01-C101	CONSULTANT FILE REF. 51-38096	PROJECT TITLE DYERS PASS ROAD SAFETY IMPROVEMENTS SITE 1 - CH3244 TO 3420 This Drawing must not be used for Construction unless signed as Approved	DRAWING TITLE SITE PLAN AND LONGITUDINAL SECTION SHEET 2	CONTRACT NUMBER CAD DRAWING FILE REF. CPG PROJECT FILE NUMBER	ORIGINAL SHEET SIZE A1 DO NOT SCALE	SCALES 1:200 5 OF 14
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DYERS PASS ROAD - SAFETY IMPROVEMENTS

SITE 2 - CH4247 TO 4524



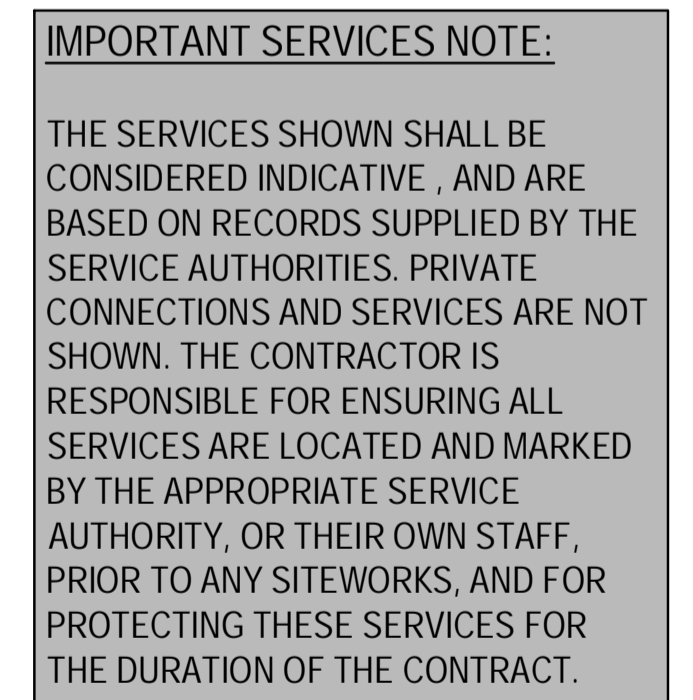
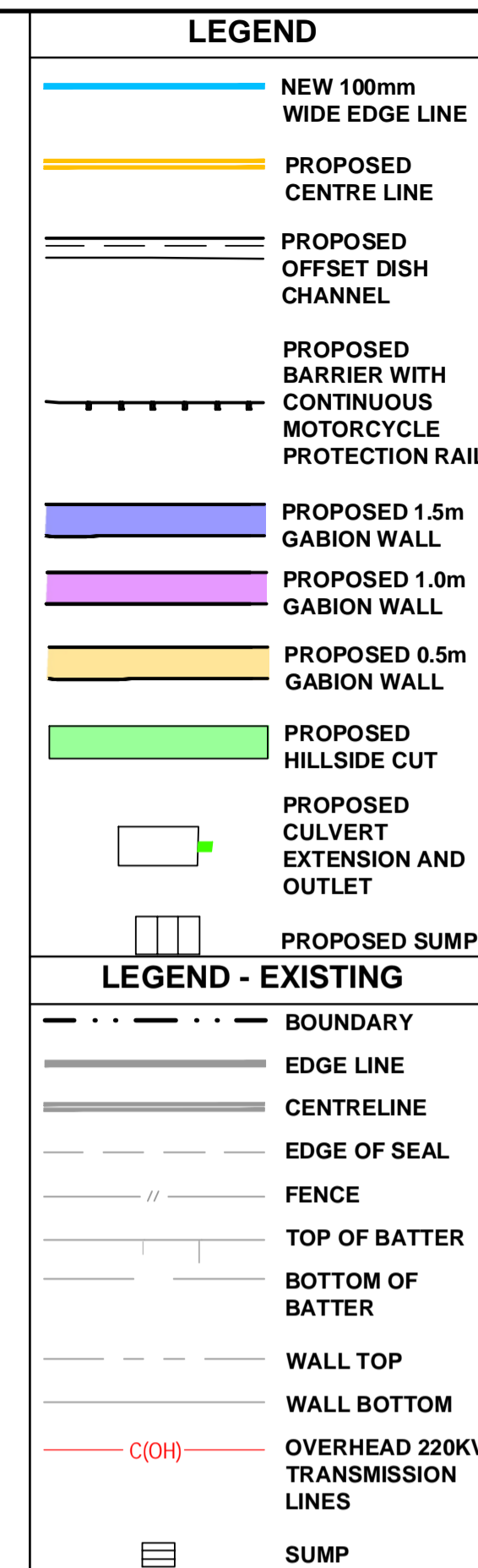
LOCATION PLAN
SCALE 1:5000



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	BENCH MK.		DESIGNED	A. MALDEN	AM*	14/02/20	FOR TENDER			CAD DRAWING FILE REF.	1:5000								
	RL		DES. REVIEW	A. WATT	AW*	14/02/20	DATE	SIGNED											
	SURVEY		DRAWN	G. ALDERSLEY	GA*	14/02/20	DM*												
	SURVEY LB		DRW. CHECK	G. DOUGHERTY	GD*	14/02/20				CPG PROJECT FILE NUMBER									
	© COPYRIGHT CHRISTCHURCH CITY COUNCIL AERIAL PHOTOGRAPHY © COPYRIGHT TERRALINK INTERNATIONAL LIMITED					FOR CONSTRUCTION				SHEET									
	DRAIN. REF.					DATE	SIGNED	CONSULTANT DRAWING SHEET REF.		CONSULTANT FILE REF.	1 OF 19								
	SAP WBS							02-C001		51-38096									



FOR TENDER
NOT FOR CONSTRUCTION

VERTICAL ALIGNMENT																			
HORIZONTAL ALIGNMENT																			
LEVEL DIFFERENCE CUT - / FILL +	-0.09	0.00	-0.00	-0.01	-0.01	-0.00	-0.01	-0.01	-0.00	0.01	0.01	-0.00	-0.00	0.00	0.00	0.01	0.00	-0.00	0.01
DESIGN SURFACE LEVEL	280.908	281.038	281.495	281.618	281.908	282.079	282.226	282.743	283.161	283.444	283.535	283.904	284.182	284.458	284.514	284.767	284.977	285.092	285.210
EXISTING SURFACE LEVEL	281.00	281.04	281.50	281.82	281.91	282.08	282.24	282.76	283.16	283.43	283.53	283.90	284.18	284.46	284.51	284.75	284.98	285.10	285.15
CHAINAGE CENTRE LINE	4247.32	4250.00	4259.42	4267.69	4270.00	4274.37	4280.00	4289.50	4299.50	4306.95	4309.50	4319.94	4330.00	4340.00	4342.03	4350.00	4356.62	4360.00	4372.23

LONGITUDINAL SECTION - ROAD02
HORZ 1:200 VERT 1:200

DATE		NAME		SIGNED	DATE	APPROVED	
BENCH MK.		DESIGNED	A. MALDEN	AM*	14/02/20	FOR TENDER	
RL		DES. REVIEW	A. WATT	AW*	14/02/20	DATE	SIGNED
SURVEY		DRAWN	G. ALDERSLY	GA*	14/02/20	14/02/20	DM*
SURVEY LB		DRW. CHECK	G. DOUGHERTY	GD*	14/02/20	FOR CONSTRUCTION	
<p style="text-align: center;">© COPYRIGHT CHRISTCHURCH CITY COUNCIL AERIAL PHOTOGRAPHY © COPYRIGHT TERRACING INTERNATIONAL LIMITED</p>							
DRAWING REF.						DATE	SIGNED
SAP.IRS.							

CONSULTANT

 CLIENTS | PEOPLE | PERFORMANCE

Level 3, 138 Victoria Street, Christchurch 8013 New Zealand
 T 64 3 378 0900 F 64 3 377 8575 E chcmail@ghd.co.nz W www.ghd.co.nz

CONSULTANT DRAWING SHEET REF.	CONSULTANT FILE REF.
02-C-100	51-38096

PROJECT TITLE

**DYERS
SAFETY IM
SITE 2 - C**

This Drawing must not be used for Construction unless signed as Approved

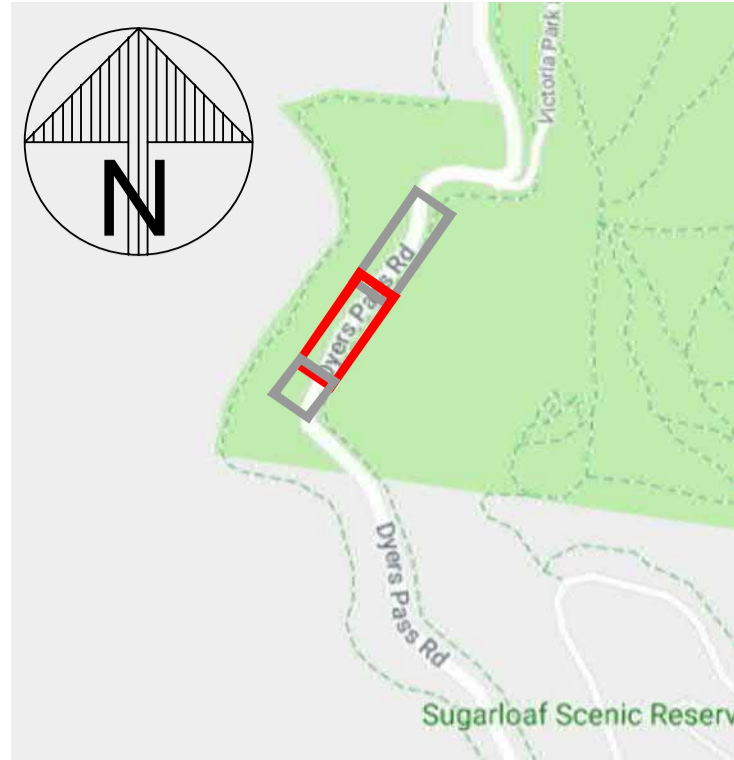
DYERS PASS ROAD SAFETY IMPROVEMENTS SITE 2 - CH4247 TO 4524

DRAWING TITLE

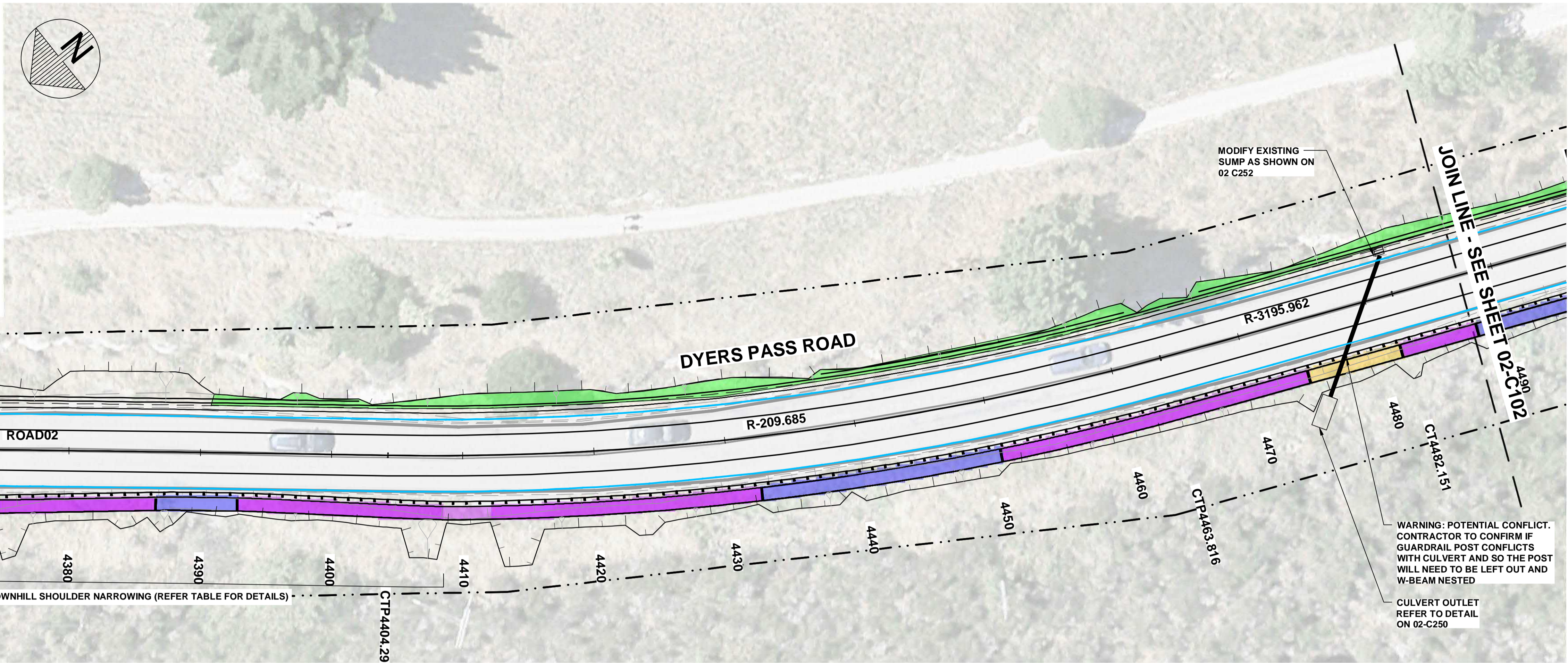
SITE PLAN AND
LONGITUDINAL SECTION
SHEET 1

C	FOR TENDER	DM*	14/02/20
B	FOR SAFETY AUDIT	DM*	22/10/19
A	PRELIMINARY		
ISSUE	AMENDMENTS	SIGNED	DATE

CONTRACT NUMBER		ORIGINAL SHEET SIZE A1	SCALES
CAD DRAWING FILE REF.			1:200
CPG PROJECT FILE NUMBER		DO NOT SCALE SHEET 4 OF 19	



LOCATION PLAN
SCALE: NTS



SITE PLAN
SCALE 1:200

ROAD NARROWING TABLE

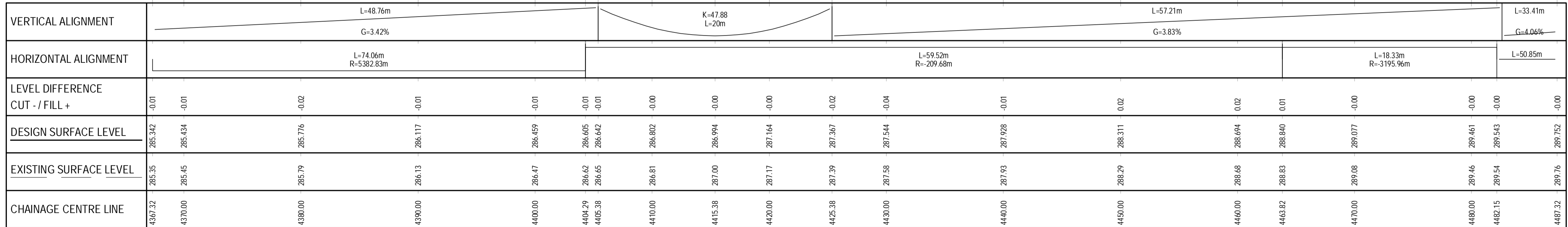
LOCATION	DETAILS
R4387-RP34394 (+15m TRANSITION EITHER SIDE)	DOWNHILL SHOULDER 0.45m

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DATUM RL: 271.00



LONGITUDINAL SECTION - ROAD02

HORZ 1:200 VERT 1:200

0 2 4 6 8 10m
SCALE 1:200 AT ORIGINAL SIZE

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Christchurch City Council
TECHNICAL SERVICES AND DESIGN

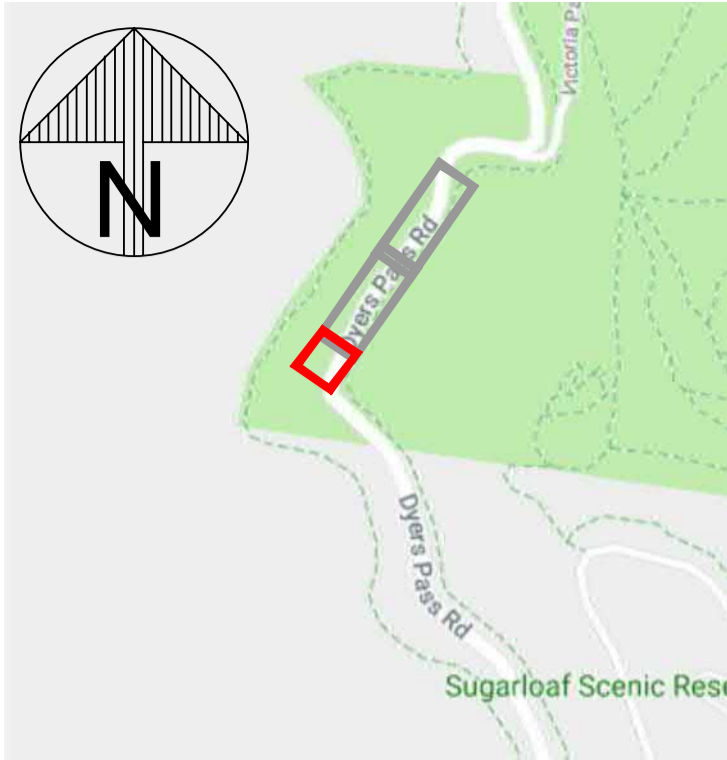
DATUM	C.D.D.	NAME	SIGNED	DATE	APPROVED
BENCH MK.		DESIGNED	A. MALDEN	AM*	14/02/20
RL		DES. REVIEW	A. WATT	AW*	14/02/20
SURVEY		DRAWN	G. ALDERSLEY	GA*	14/02/20
SURVEY LB		DRW. CHECK	G. DOUGHERTY	GD*	14/02/20
DRAIN. REF.		© COPYRIGHT CHRISTCHURCH CITY COUNCIL AERIAL PHOTOGRAPHY © COPYRIGHT TERRALINK INTERNATIONAL LIMITED			
SAP WBS					

CONSULTANT	PROJECT TITLE
GHD Level 3, 138 Victoria Street, Christchurch 8013 New Zealand T 64 3 378 0900 F 64 3 377 8576 E chomal@ghd.co.nz W www.ghd.co.nz	DYERS PASS ROAD SAFETY IMPROVEMENTS SITE 2 - CH4247 TO 4524
CONSULTANT DRAWING SHEET REF. 02-C101	CONSULTANT FILE REF. 51-38096

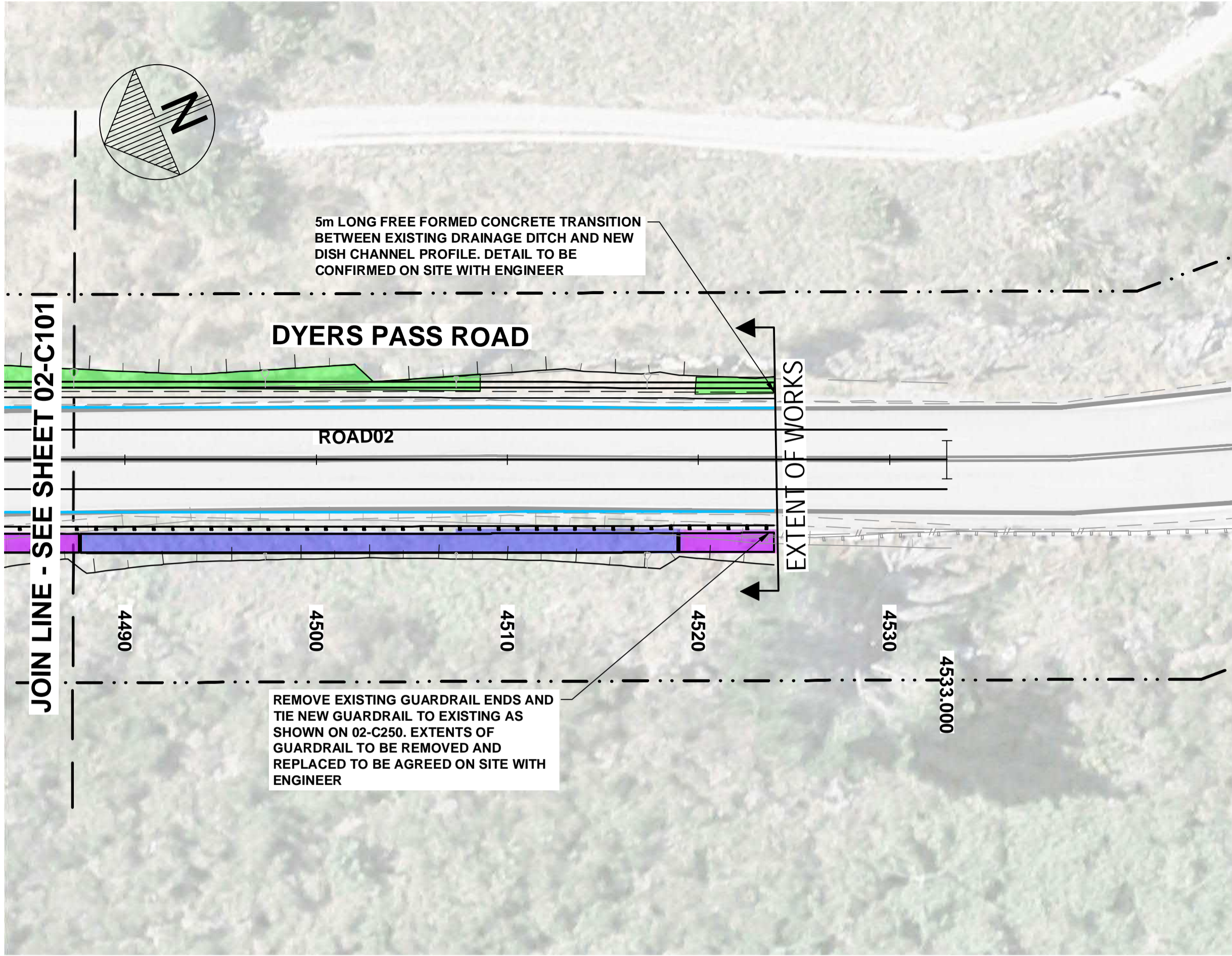
FOR TENDER	FOR CONSTRUCTION
DATE SIGNED	DATE SIGNED
14/02/20 DM*	

SITE PLAN AND LONGITUDINAL SECTION SHEET 2

CONTRACT NUMBER	ORIGINAL SHEET SIZE	SCALE
CAD DRAWING FILE REF.	A1	1:200
CPG PROJECT FILE NUMBER	DO NOT SCALE	
	5 OF 19	

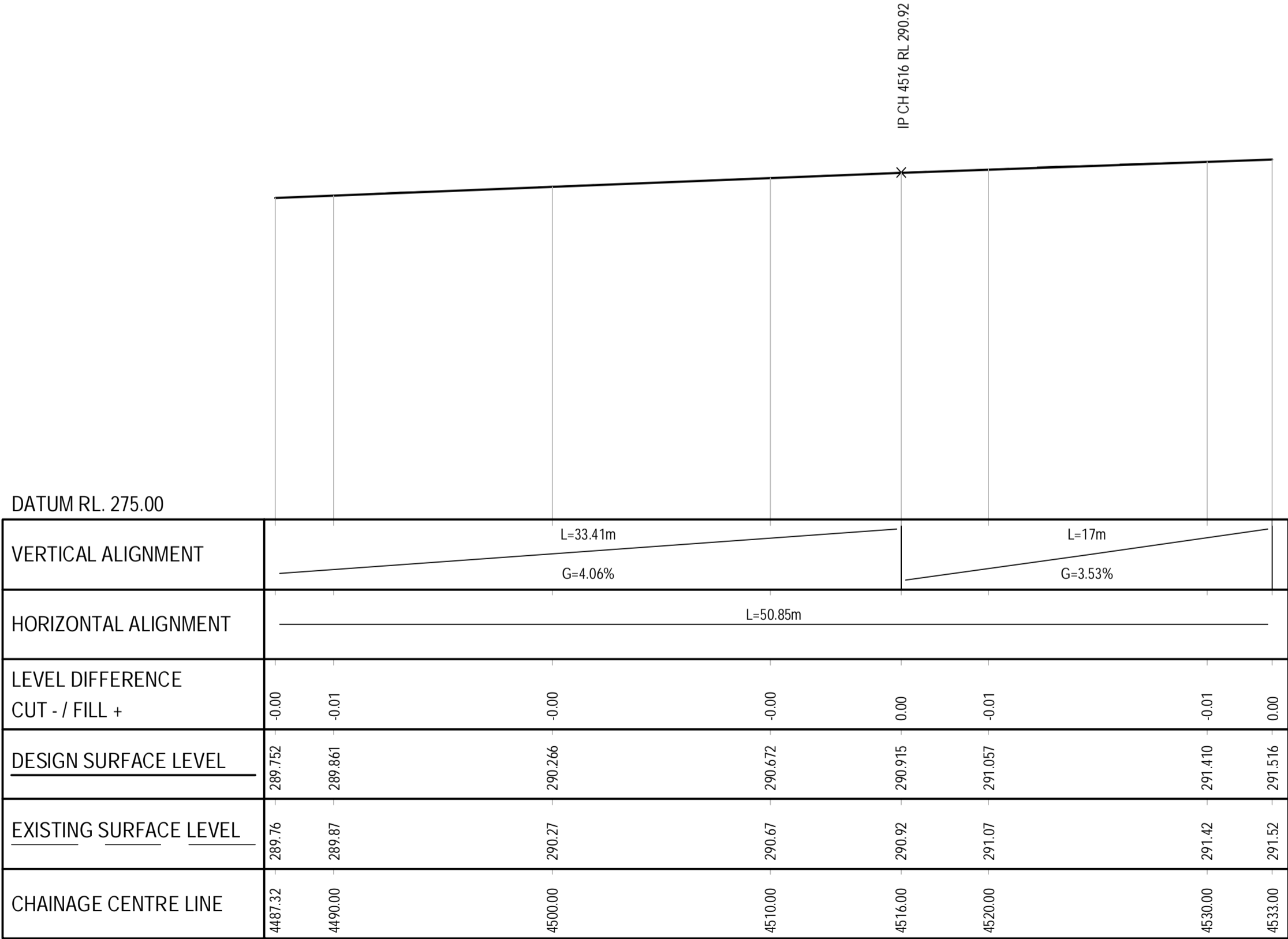


LOCATION PLAN
SCALE: NTS



SITE PLAN
SCALE 1:200

LEGEND	
	NEW 100mm WIDE EDGE LINE
	PROPOSED CENTRE LINE
	PROPOSED OFFSET DISH CHANNEL
	PROPOSED BARRIER WITH CONTINUOUS MOTORCYCLE PROTECTION RAIL
	PROPOSED 1.5m GABION WALL
	PROPOSED 1.0m GABION WALL
	PROPOSED 0.5m GABION WALL
	PROPOSED HILLSIDE CUT
	PROPOSED CULVERT EXTENSION AND OUTLET
	PROPOSED SUMP
LEGEND - EXISTING	
	BOUNDARY
	EDGE LINE
	CENTRELINE
	EDGE OF SEAL
	FENCE
	TOP OF BATTER
	BOTTOM OF BATTER
	WALL TOP
	WALL BOTTOM
	OVERHEAD 220KV TRANSMISSION LINES
	SUMP



LONGITUDINAL SECTION - ROAD02
HORZ 1:200 VERT 1:200

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FOR TENDER
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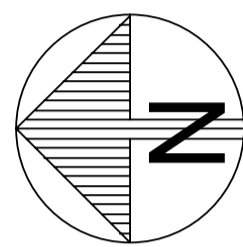
C	FOR TENDER	DM*	14/02/20
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	BENCH MK.		DES. REVIEW	A. WATT	AW*	14/02/20	FOR TENDER		CAD DRAWING FILE REF.							A1	1:200	
	RL		DRAWN	G. ALDERSLEY	GA*	14/02/20	DATE	SIGNED										
	SURVEY		DRW. CHECK	G. DOUGHERTY	GD*	14/02/20	14/02/20	DM*	CPG PROJECT FILE NUMBER							SHEET	DO NOT SCALE	
	SURVEY LB		© COPYRIGHT CHRISTCHURCH CITY COUNCIL AERIAL PHOTOGRAPHY © COPYRIGHT TERRALINK INTERNATIONAL LIMITED				FOR CONSTRUCTION											
			DRAIN. REF.		DATE		SIGNED	CONSULTANT DRAWING SHEET REF.	CONSULTANT FILE REF.							This Drawing must not be used for Construction unless signed as Approved		

DYERS PASS ROAD - SAFETY IMPROVEMENTS

SITE 3 - CH4596 TO 4840



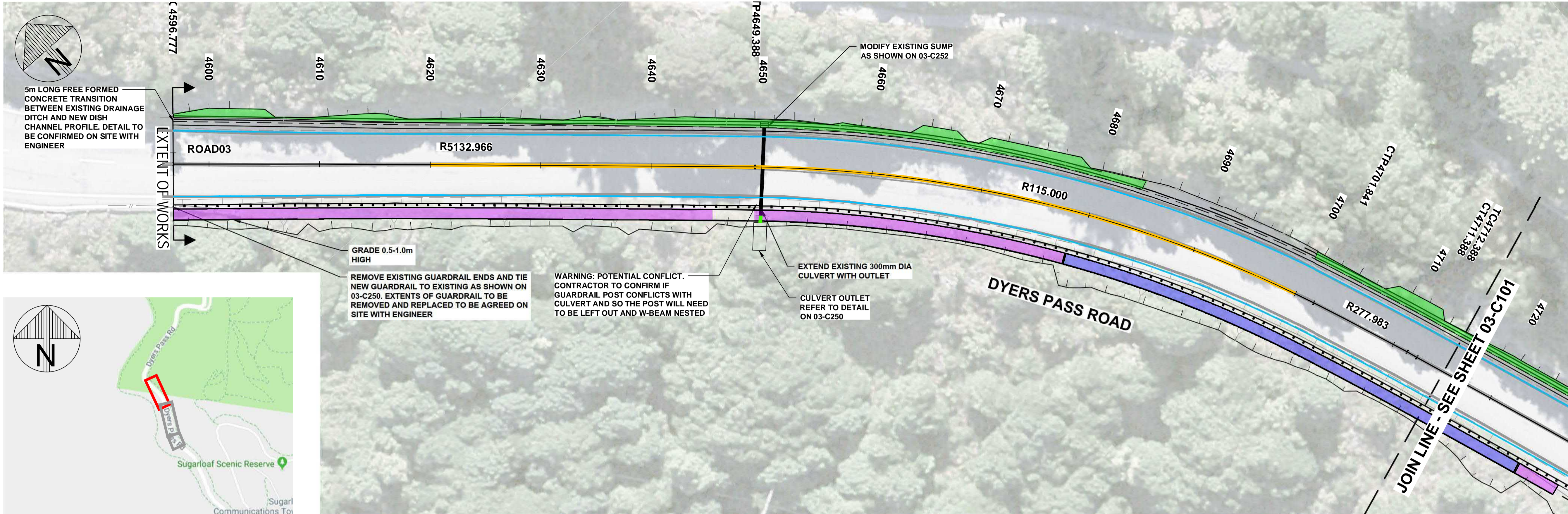
LOCATION PLAN
SCALE 1:5000



FOR TENDER
NOT FOR CONSTRUCTION

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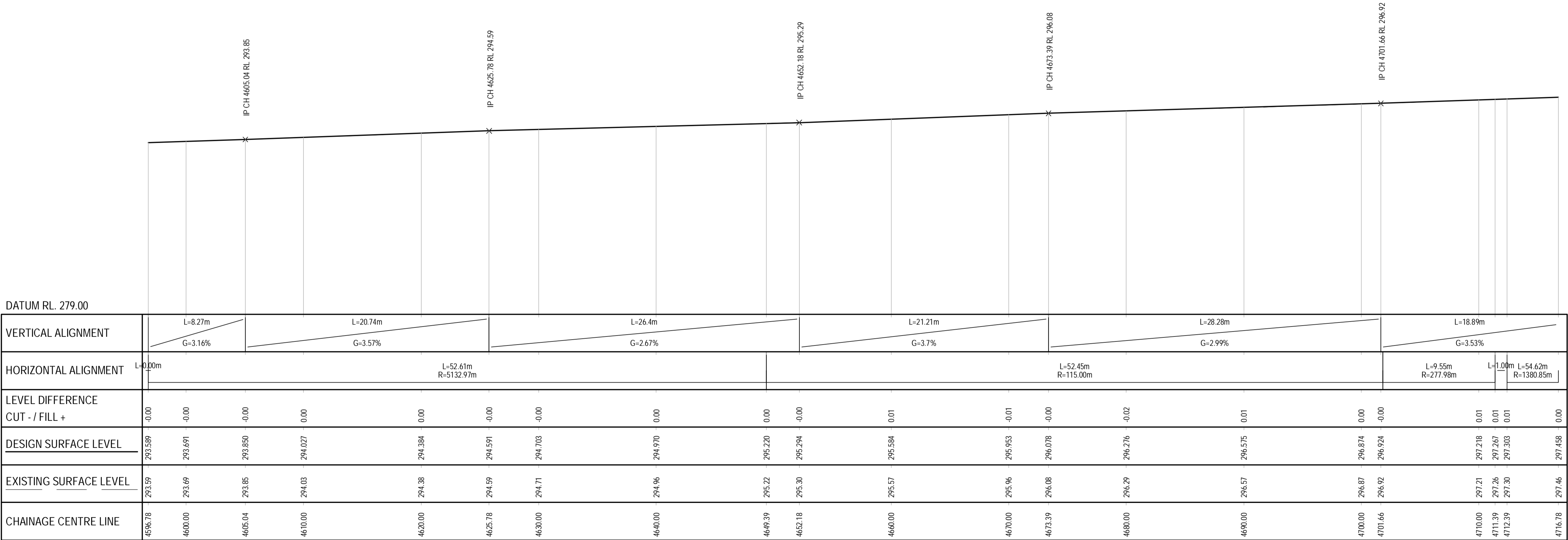
<div><div>Christchurch City Council</div><div></div></div> <div>TECHNICAL SERVICES AND DESIGN</div>				DATUM	C.D.D.	NAME	SIGNED	DATE	APPROVED		CONSULTANT	PROJECT TITLE		DRAWING TITLE	CONTRACT NUMBER	ORIGINAL SHEET SIZE	SCALES		
				BENCH MK.		DESIGNED	A. MALDEN	AM*	14/02/20	<div><div>CLIENTS PEOPLE PERFORMANCE</div></div> <div>Level 3, 138 Victoria Street, Christchurch 8013 New Zealand T 64 3 378 0900 F 64 3 377 8575 E chomail@ghd.co.nz W www.ghd.co.nz</div>		DYERS PASS ROAD SAFETY IMPROVEMENTS SITE 3 - CH4596 TO 4840		COVER SHEET AND LOCATION PLAN		1:5000 DO NOT SCALE			
				RL		DES. REVIEW	A. WATT	AW*	14/02/20									FOR TENDER	
				SURVEY		DRAWN	G. ALDERSLEY	GA*	14/02/20									DATE	
				SURVEY LB		DRW. CHECK	G. DOUGHERTY	GD*	14/02/20									SIGNED	
				FOR CONSTRUCTION					CONSULTANT DRAWING SHEET REF. 03-C001		CONSULTANT FILE REF. 51-38096		This Drawing must not be used for Construction unless signed as Approved		CPG PROJECT FILE NUMBER		SHEET 1 OF 18		
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LEGEND	
	NEW 100mm WIDE EDGE LINE
	PROPOSED CENTRE LINE
	PROPOSED OFFSET DISH CHANNEL
	PROPOSED BARRIER WITH CONTINUOUS MOTORCYCLE PROTECTION RAIL
	PROPOSED 1.5m GABION WALL
	PROPOSED 1.0m GABION WALL
	PROPOSED 0.5m GABION WALL
	PROPOSED HILLSIDE CUT
	PROPOSED CULVERT EXTENSION AND OUTLET
	PROPOSED SUMP
LEGEND - EXISTING	
	BOUNDARY
	EDGE LINE
	CENTRELINE
	EDGE OF SEAL
	FENCE
	TOP OF BATTER
	BOTTOM OF BATTER
	WALL TOP
	WALL BOTTOM
	SUMP
	HEADWALL



SITE PLAN
SCALE 1:200



IMPORTANT SERVICES NOTE:

THE SERVICES SHOWN SHALL BE CONSIDERED INDICATIVE, AND ARE BASED ON RECORDS SUPPLIED BY THE SERVICE AUTHORITIES. PRIVATE CONNECTIONS AND SERVICES ARE NOT SHOWN. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING ALL SERVICES ARE LOCATED AND MARKED BY THE APPROPRIATE SERVICE AUTHORITY, OR THEIR OWN STAFF, PRIOR TO ANY SITEWORKS, AND FOR PROTECTING THESE SERVICES FOR THE DURATION OF THE CONTRACT.

**FOR TENDER
NOT FOR CONSTRUCTION**

C	FOR TENDER	DM*	14/02/20
B	FOR SAFETY AUDIT	DM*	22/10/19
A	PRELIMINARY		
ISSUE	AMENDMENTS	SIGNED	DATE

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TECHNICAL SERVICES AND DESIGN

DATUM	C.D.D.	NAME	SIGNED	DATE	APPROVED
BENCH MK.		DESIGNED	A. MALDEN	AM*	14/02/20
RL		DES. REVIEW	A. WATT	AW*	14/02/20
SURVEY		DRAWN	G. ALDERSLEY	GA*	14/02/20
SURVEY LB		DRW. CHECK	G. DOUGHERTY	GD*	14/02/20
DRAIN. REF.		© COPYRIGHT CHRISTCHURCH CITY COUNCIL AERIAL PHOTOGRAPHY © COPYRIGHT TERRALINK INTERNATIONAL LIMITED			FOR CONSTRUCTION
SAP WBS					DATE SIGNED

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Level 3, 138 Victoria Street, Christchurch 8013 New Zealand
T 64 3 378 0900 F 64 3 377 8575 E chomal@ghd.co.nz W www.ghd.co.nz

CONSULTANT DRAWING SHEET REF. 03-C100
CONSULTANT FILE REF. 51-38096

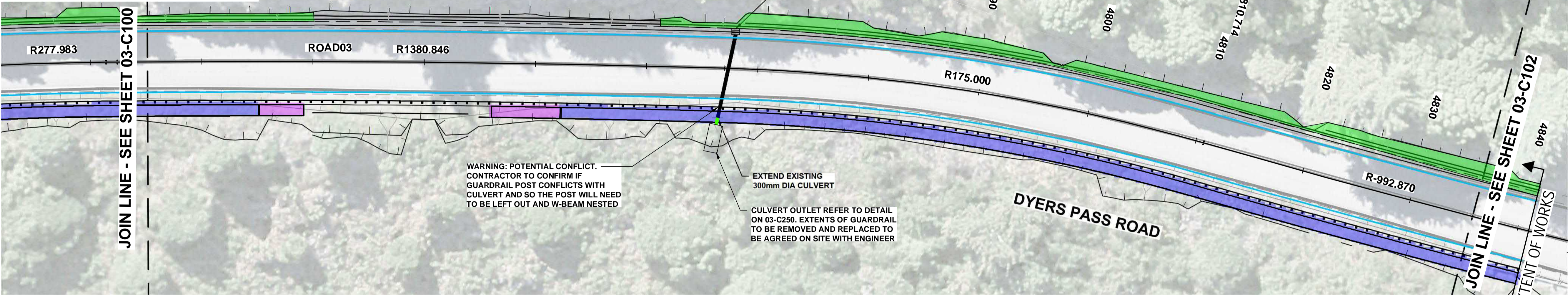
PROJECT TITLE
**DYERS PASS ROAD
SAFETY IMPROVEMENTS
SITE 3 - CH4596 TO 4840**
This Drawing must not be used for Construction unless signed as Approved

DRAWING TITLE
**SITE PLAN AND
LONGITUDINAL SECTION
SHEET 1**

CONTRACT NUMBER	ORIGINAL SHEET SIZE	SCALES
CAD DRAWING FILE REF.	A1	1:200
CPG PROJECT FILE NUMBER	DO NOT SCALE	
		4 OF 18



LOCATION PLAN
SCALE: NTS



LEGEND

- NEW 100mm WIDE EDGE LINE
- PROPOSED CENTRE LINE
- PROPOSED OFFSET DISH CHANNEL
- PROPOSED BARRIER WITH CONTINUOUS MOTORCYCLE PROTECTION RAIL
- PROPOSED 1.5m GABION WALL
- PROPOSED 1.0m GABION WALL
- PROPOSED 0.5m GABION WALL
- PROPOSED HILLSIDE CUT
- PROPOSED CULVERT EXTENSION AND OUTLET
- PROPOSED SUMP

LEGEND - EXISTING

- BOUNDARY
- EDGE LINE
- CENTRELINE
- EDGE OF SEAL
- FENCE
- TOP OF BATTER
- BOTTOM OF BATTER
- WALL TOP
- WALL BOTTOM
- SUMP
- HEADWALL

SITE PLAN
SCALE 1:200

DATUM RL. 282.00												
VERTICAL ALIGNMENT	L=18.89m G=3.53%	L=11.59m G=3.24%	L=7.86m G=3.26%	L=10.29m G=2.88%	L=12.52m G=3.03%	L=5.94m G=3.11%	L=11.25m G=3.35%	L=15.01m G=2.84%	L=4.15m G=2.74%	L=9.49m G=3.12%	L=18.81m G=2.23%	L=9.61m G=2.89%
HORIZONTAL ALIGNMENT	L=54.62m R=1380.85m						L=43.71m R=175.00m				L=34.35m R=992.87m	
LEVEL DIFFERENCE CUT - / FILL +	0.00	-0.00	-0.00	-0.00	-0.00	0.00	-0.00	-0.01	-0.00	-0.00	-0.00	-0.00
DESIGN SURFACE LEVEL	297.458	297.571	297.897	297.967	298.223	298.511	298.813	299.029	299.083	299.125	299.460	299.744
EXISTING SURFACE LEVEL	297.46	297.57	297.90	297.97	298.22	298.51	298.81	299.03	299.08	299.13	299.46	299.75
CHAINAGE CENTRE LINE	4716.78	4720.00	4730.00	4732.14	4740.00	4750.00	4760.00	4762.81	4767.01	4768.75	4770.00	4780.00

LONGITUDINAL SECTION - ROAD03
HORZ 1:200 VERT 1:200



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Christchurch City Council
TECHNICAL SERVICES AND DESIGN

DATUM	C.D.D.	NAME	SIGNED	DATE	APPROVED
BENCH MK.		A. MALDEN	AM*	14/02/20	FOR TENDER
RL		A. WATT	AW*	14/02/20	DATE
SURVEY		G. ALDERSLEY	GA*	14/02/20	DM*
SURVEY LB		G. DOUGHERTY	GD*	14/02/20	FOR CONSTRUCTION
DRAIN. REF.		© COPYRIGHT CHRISTCHURCH CITY COUNCIL			DATE
SAP WBS		AERIAL PHOTOGRAPHY © COPYRIGHT TERRALINK INTERNATIONAL LIMITED			SIGNED

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Level 3, 138 Victoria Street, Christchurch 8013 New Zealand
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CONSULTANT DRAWING SHEET REF. **03-C101**
CONSULTANT FILE REF. **51-38096**

PROJECT TITLE
**DYERS PASS ROAD
SAFETY IMPROVEMENTS
SITE 3 - CH4596 TO 4840**

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DRAWING TITLE
**SITE PLAN AND
LONGITUDINAL SECTION
SHEET 2**

CONTRACT NUMBER
CAD DRAWING FILE REF.
CPG PROJECT FILE NUMBER

ORIGINAL SHEET SIZE
A1

SCALES
1:200
DO NOT SCALE

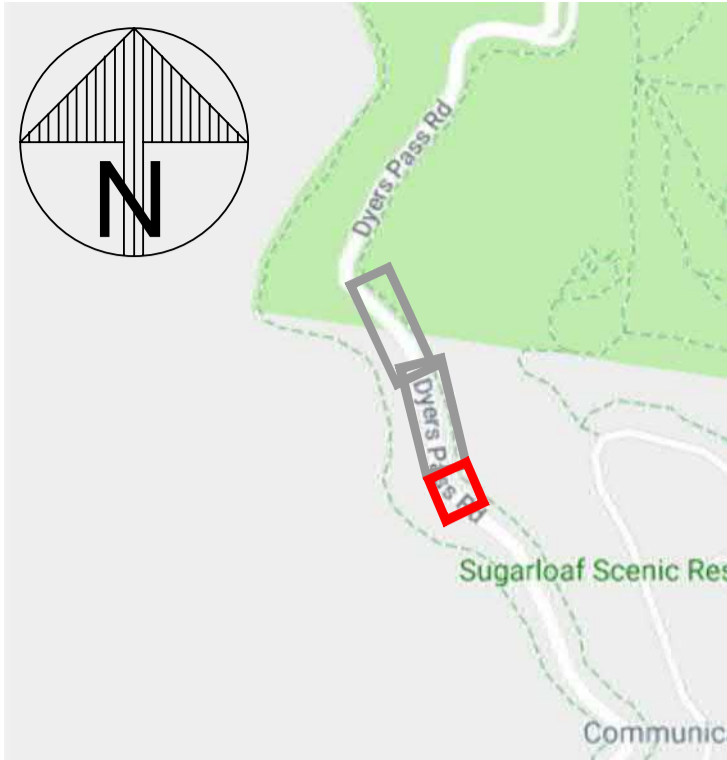
SHEET
5 OF 18

PLOT DATE: 18 February, 2020 - 8:49 AM

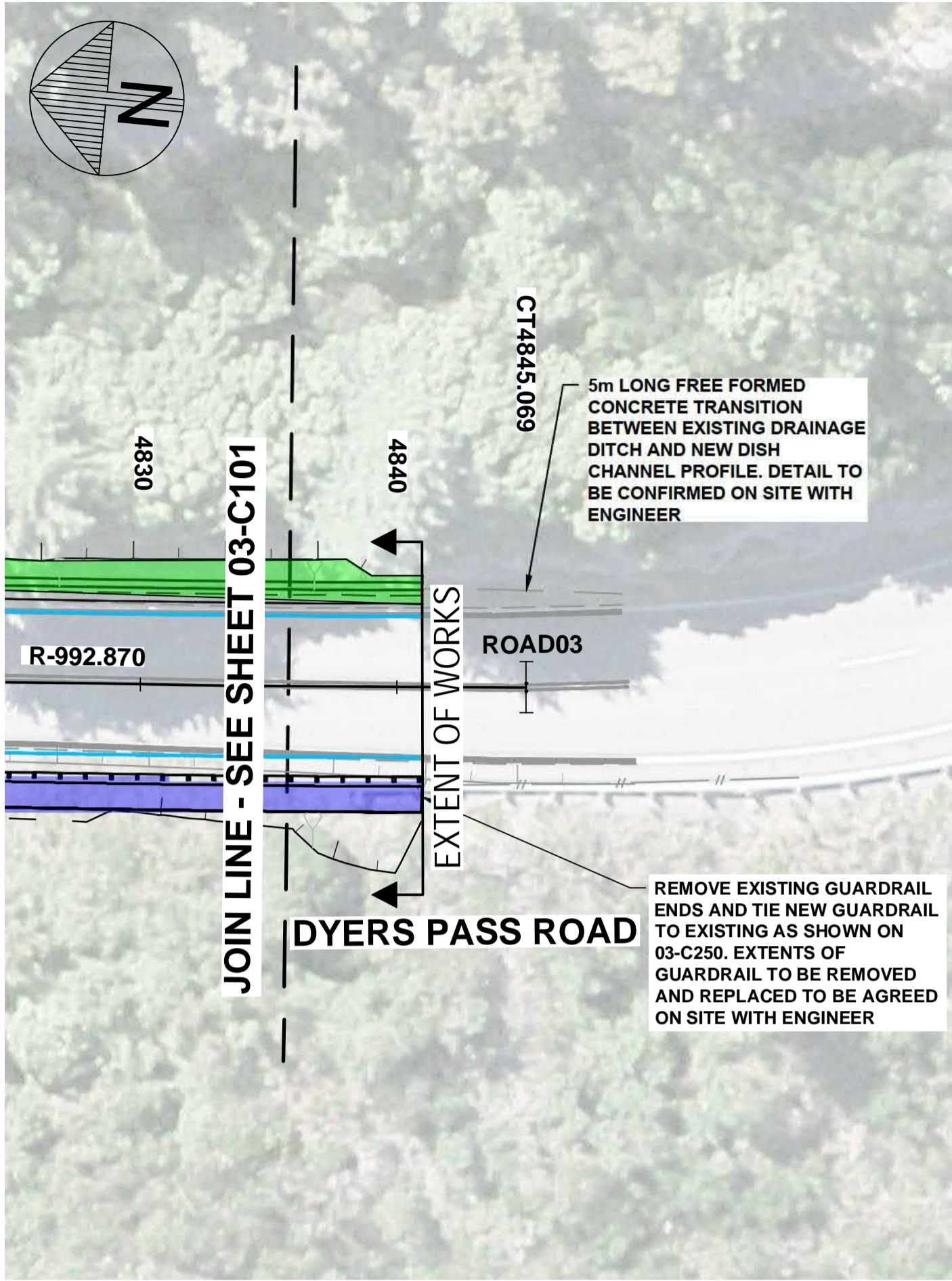
BY: Gina Aldersley

Note: * indicates signatures on original issue of drawing or last revision of drawing

CAD FILE NO: G:\5138096\CADD\Drawing\51-38096-03-C100_C102.dwg



LOCATION PLAN
SCALE: NTS



SITE PLAN
SCALE 1:200

IP CH 4837.07 RL 300.9

DATUM RL: 286.00

VERTICAL ALIGNMENT	L=9.41m	L=8m	
	G=-2.89%	G=-3.16%	
HORIZONTAL ALIGNMENT	L=34.35m	L=0.00m	
	R=992.87m		
LEVEL DIFFERENCE	-0.00	-0.00	-0.00
CUT - / FILL +	-0.00	-0.00	-0.00
DESIGN SURFACE LEVEL	300.985	301.086	301.246
EXISTING SURFACE LEVEL	300.99	301.09	301.25
CHAINAGE CENTRE LINE	4836.78	4840.00	4845.07

LONGITUDINAL SECTION - ROAD03
HORZ 1:200 VERT 1:200

LEGEND	
	NEW 100mm WIDE EDGE LINE
	PROPOSED CENTRE LINE
	PROPOSED OFFSET DISH CHANNEL
	PROPOSED BARRIER WITH CONTINUOUS MOTORCYCLE PROTECTION RAIL
	PROPOSED 1.5m GABION WALL
	PROPOSED 1.0m GABION WALL
	PROPOSED 0.5m GABION WALL
	PROPOSED HILLSIDE CUT
	PROPOSED CULVERT EXTENSION AND OUTLET
	PROPOSED SUMP
LEGEND - EXISTING	
	BOUNDARY
	EDGE LINE
	CENTRELINE
	EDGE OF SEAL
	FENCE
	TOP OF BATTER
	BOTTOM OF BATTER
	WALL TOP
	WALL BOTTOM
	SUMP
	HEADWALL

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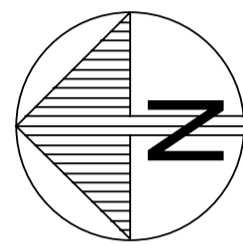
C	FOR TENDER	DM*	14/02/20
B	FOR SAFETY AUDIT	DM*	22/10/19
A	PRELIMINARY		
ISSUE	AMENDMENTS	SIGNED	DATE

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<div><div>Christchurch City Council</div><div></div></div> <div>TECHNICAL SERVICES AND DESIGN</div>	DATUM	C.D.D.	DESIGNED	A. MALDEN	AM*	14/02/20	APPROVED		<div><div>CONSULTANT</div><div> CLIENTS PEOPLE PERFORMANCE</div><div>Level 3, 138 Victoria Street, Christchurch 8013 New Zealand T 64 3 378 0900 F 64 3 377 8575 E chomail@ghd.co.nz W www.ghd.co.nz</div></div> <div><div>CONSULTANT DRAWING SHEET REF.</div><div>03-C102</div></div> <div><div>CONSULTANT FILE REF.</div><div>51-38096</div></div>	PROJECT TITLE		<div>DYERS PASS ROAD SAFETY IMPROVEMENTS SITE 3 - CH4596 TO 4840</div> <div>This Drawing must not be used for Construction unless signed as Approved</div>		DRAWING TITLE		CONTRACT NUMBER		ORIGINAL SHEET SIZE	SCALES
	BENCH MK.		DES. REVIEW	A. WATT	AW*	14/02/20	FOR TENDER			CAD DRAWING FILE REF.	A1			1:200					
	RL						DATE	SIGNED											
	SURVEY		DRAWN	G. ALDERSLEY	GA*	14/02/20	14/02/20	DM*		CPG PROJECT FILE NUMBER	DO NOT SCALE			SHEET					
	SURVEY LB		DRW. CHECK	G. DOUGHERTY	GD*	14/02/20									6	OF 18			
			© COPYRIGHT CHRISTCHURCH CITY COUNCIL AERIAL PHOTOGRAPHY © COPYRIGHT TERRALINK INTERNATIONAL LIMITED				FOR CONSTRUCTION												
							DATE	SIGNED											
	DRAIN. REF.																		
	SAP WBS																		

DYERS PASS ROAD - SAFETY IMPROVEMENTS

SITE 4 - CH4887 TO 5395



LOCATION PLAN
SCALE 1:5000



FOR TENDER
NOT FOR CONSTRUCTION

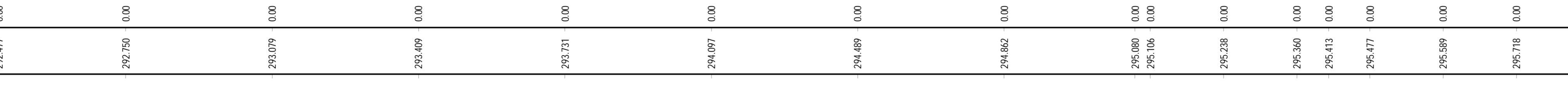

C	FOR TENDER	DM*	14/02/20
B	FOR SAFETY AUDIT	DM*	22/10/19
A	PRELIMINARY		
ISSUE	AMENDMENTS	SIGNED	DATE

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<div><div>Christchurch City Council</div><div></div></div> <div>TECHNICAL SERVICES AND DESIGN</div>	DATUM	C.D.D.		NAME	SIGNED	DATE	APPROVED		<div><div>CONSULTANT</div><div></div><div>Level 3, 138 Victoria Street, Christchurch 8013 New Zealand T 64 3 378 0900 F 64 3 377 8575 E chomail@ghd.co.nz W www.ghd.co.nz</div></div>	PROJECT TITLE <div>DYERS PASS ROAD SAFETY IMPROVEMENTS SITE 4 - CH4887 TO 5395</div>	DRAWING TITLE <div>COVER SHEET AND LOCATION PLAN</div>	CONTRACT NUMBER		ORIGINAL SHEET SIZE <div>A1</div>	SCALES 1:5000
	CAD DRAWING FILE REF.		DO NOT SCALE												
	BENCH MK.		DESIGNED	A. MALDEN	AM*	14/02/20	FOR TENDER					CPG PROJECT FILE NUMBER	SHEET 1	OF 26	
	RL		DES. REVIEW	A. WATT	AW*	14/02/20	DATE	SIGNED							
	SURVEY		DRAWN	G. ALDERSLEY	GA*	14/02/20	14/02/20	DM*							
	SURVEY LB		DRW. CHECK	G. DOUGHERTY	GD*	14/02/20	FOR CONSTRUCTION								
			© COPYRIGHT CHRISTCHURCH CITY COUNCIL AERIAL PHOTOGRAPHY © COPYRIGHT TERRALINK INTERNATIONAL LIMITED				DATE	SIGNED							
DRAIN. REF.						CONSULTANT DRAWING SHEET REF. 04-C001		CONSULTANT FILE REF. 51-38096	This Drawing must not be used for Construction unless signed as Approved						



LEGEND	
	NEW 100mm
	WIDE EDGE LINE
	PROPOSED CENTRE LINE
	PROPOSED OFFSET DISH CHANNEL
	PROPOSED BARRIER WITH CONTINUOUS MOTORCYCLE PROTECTION RAIL
	PROPOSED 1.5m GABION WALL
	PROPOSED 1.0m GABION WALL
	PROPOSED 0.5m GABION WALL
	PROPOSED HILLSIDE CUT
	PROPOSED CULVERT EXTENSION AND OUTLET
	PROPOSED SUMP
LEGEND - EXISTING	
	BOUNDARY
	EDGE LINE
	CENTRELINE
	EDGE OF SEAL
	FENCE
	TOP OF BATTER
	BOTTOM OF BATTER
	WALL TOP
	WALL BOTTOM
	SUMP

																				
<p>DATUM RL. 290.00</p>																				
VERTICAL ALIGNMENT																				
HORIZONTAL ALIGNMENT																				
LEVEL DIFFERENCE CUT - / FILL +	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.00
DESIGN SURFACE LEVEL	292.477	292.750	293.079	293.409	293.731	294.097	294.489	294.862	295.080	295.106	295.238	295.360	295.413	295.477	295.589	295.718	295.843	295.986	296.127	296.167
EXISTING SURFACE LEVEL	292.48	292.75	293.08	293.41	293.73	294.10	294.49	294.86	295.08	295.11	295.24	295.36	295.41	295.48	295.59	295.72	295.84	295.99	296.13	296.17
CHAINAGE CENTRE LINE	4861.35	4870.00	4880.00	4890.00	4900.00	4910.00	4920.00	4930.00	4938.94	4940.00	4945.00	4950.00	4952.19	4955.00	4960.00	4965.00	4970.00	4975.00	4980.00	4991.35

LONGITUDINAL SECTION - ROAD04
HORZ 1:200 VERT 1:200



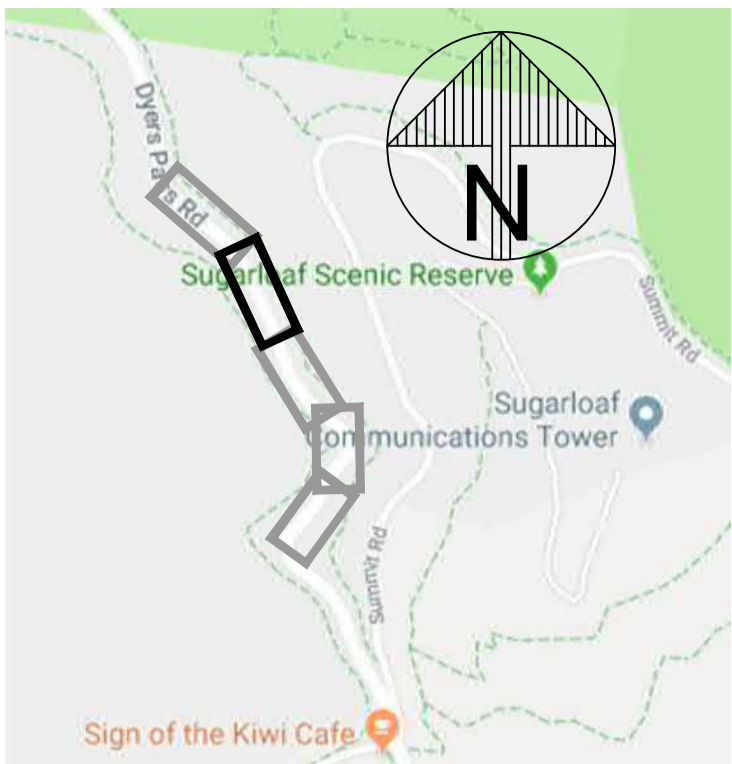
IMPORTANT SERVICES NOTE:

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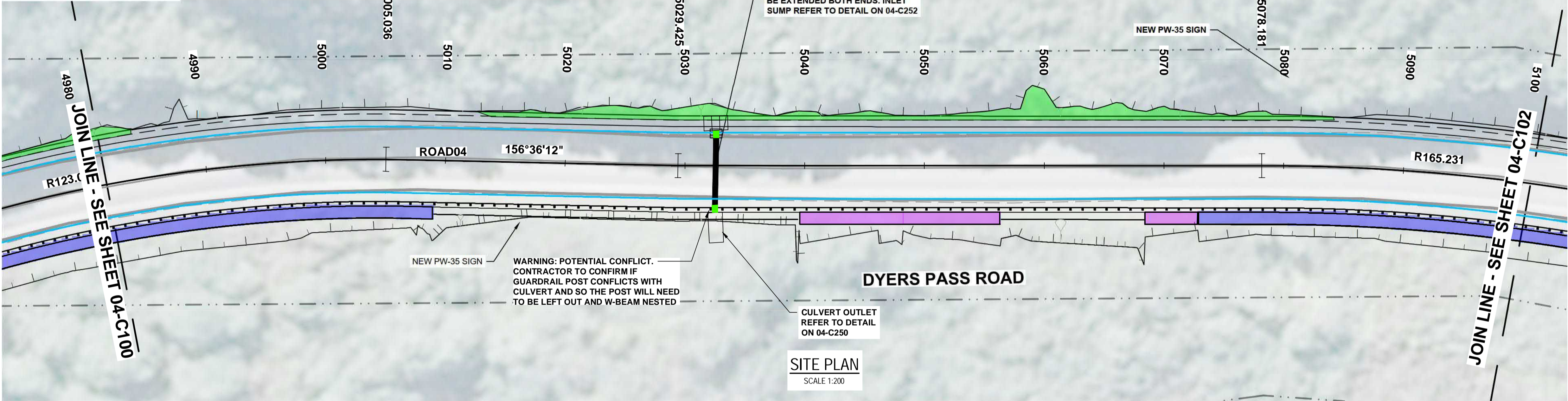
FOR TENDER
NOT FOR CONSTRUCTION

C	FOR TENDER	DM*	14/02/20
B	FOR SAFETY AUDIT	DM*	22/10/19
A	PRELIMINARY		
ISSUE	AMENDMENTS	SIGNED	DATE

CONTRACT NUMBER	ORIGINAL SHEET SIZE A1	SCALES 1:200 DO NOT SCALE
CAD DRAWING FILE REF.		
CPG PROJECT FILE NUMBER	SHEET 4 OF 26	



LOCATION PLAN
SCALE: NTS



SITE PLAN
SCALE 1:200

LEGEND

NEW 100mm WIDE EDGE LINE

PROPOSED CENTRE LINE

PROPOSED OFFSET DISH CHANNEL

PROPOSED BARRIER WITH CONTINUOUS MOTORCYCLE PROTECTION RAIL

PROPOSED 1.5m GABION WALL

PROPOSED 1.0m GABION WALL

PROPOSED 0.5m GABION WALL

PROPOSED HILLSIDE CUT

PROPOSED CULVERT EXTENSION AND OUTLET

PROPOSED SUMP

LEGEND - EXISTING

BOUNDARY

EDGE LINE

CENTRELINE

EDGE OF SEAL

FENCE

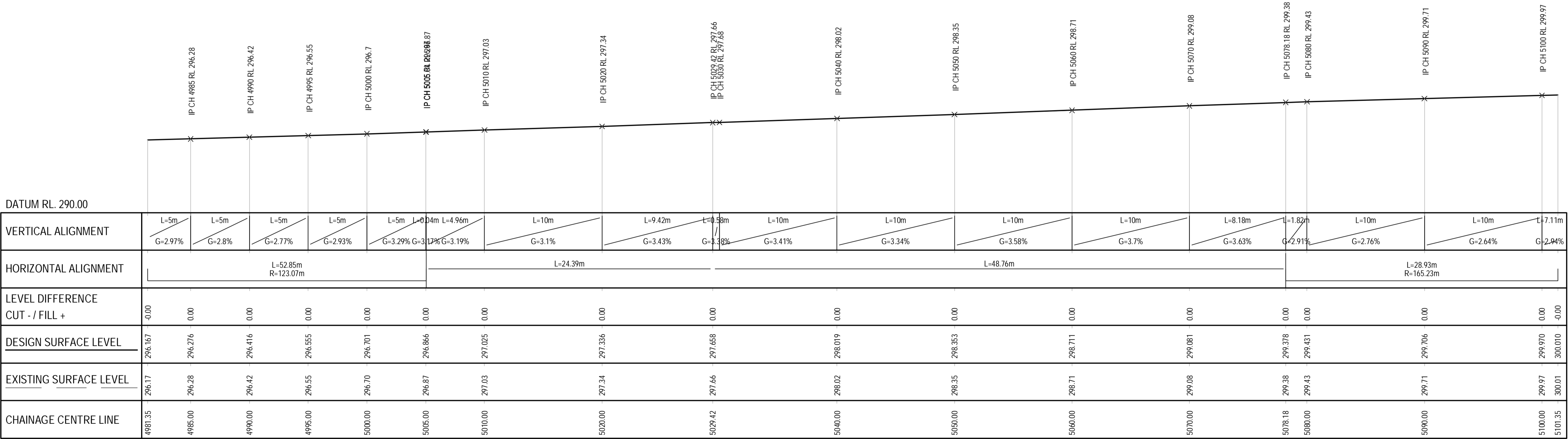
TOP OF BATTER

BOTTOM OF BATTER

WALL TOP

WALL BOTTOM

SUMP



LONGITUDINAL SECTION - ROAD04
HORZ 1:200 VERT 1:200



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TECHNICAL SERVICES AND DESIGN

DATUM	C.D.D.	NAME	SIGNED	DATE	APPROVED
BENCH MK.		A. MALDEN	AM*	14/02/20	FOR TENDER
RL		A. WATT	AW*	14/02/20	DATE
SURVEY		G. ALDERSLEY	GA*	14/02/20	DM*
SURVEY LB		DRW. CHECK	GD*	14/02/20	
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SAP WBS					DATE

CONSULTANT

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CONSULTANT DRAWING SHEET REF.
04-C101

CONSULTANT FILE REF.
51-38096

PROJECT TITLE
**DYERS PASS ROAD
SAFETY IMPROVEMENTS
SITE 4 - CH4887 TO 5395**
This Drawing must not be used for Construction unless signed as Approved

DRAWING TITLE
**SITE PLAN AND
LONGITUDINAL SECTION
SHEET 2**

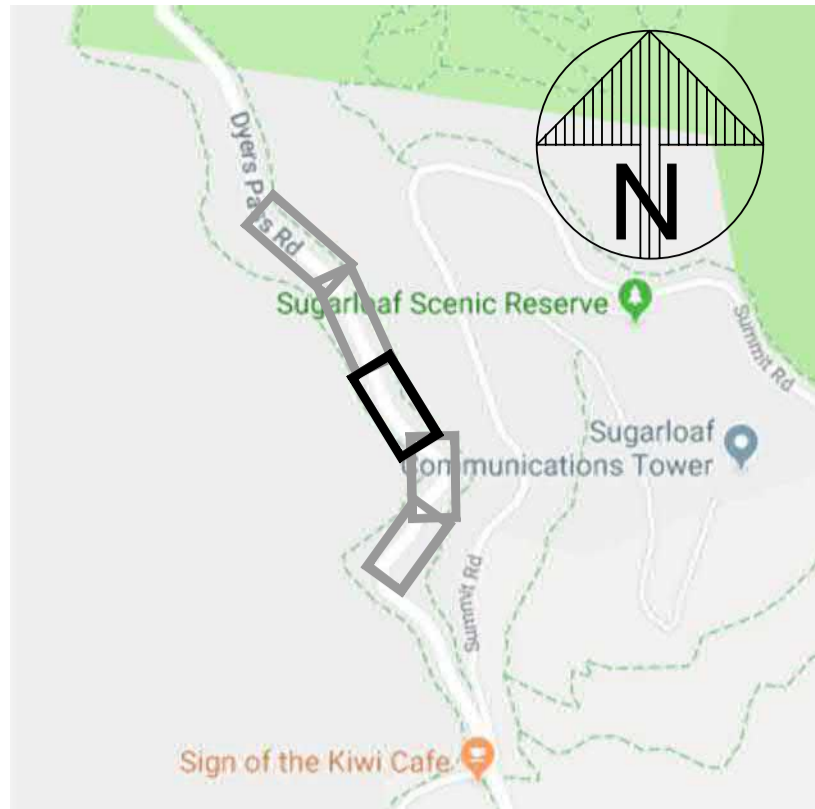
CONTRACT NUMBER	ORIGINAL SHEET SIZE	SCALES
CAD DRAWING FILE REF.	A1	1:200
CPG PROJECT FILE NUMBER	DO NOT SCALE	
		5 OF 26

2025-01-14 14:51 PM

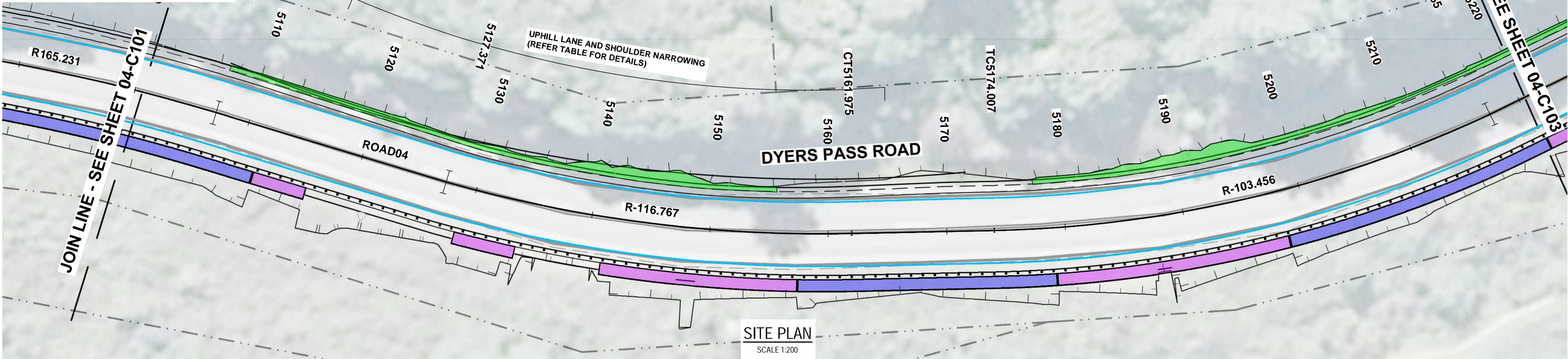
Gina Aldersley

Note: * indicates signatures on original issue of drawing or last revision of drawing

G:\5138096\CADD\Drawing\51-38096-04-C100_C104.dwg



LOCATION PLAN
SCALE: NTS



SITE PLAN
SCALE 1:200

LEGEND	
	NEW 100mm WIDE EDGE LINE
	PROPOSED CENTRE LINE
	PROPOSED OFFSET DISH CHANNEL
	PROPOSED BARRIER WITH CONTINUOUS MOTORCYCLE PROTECTION RAIL
	PROPOSED 1.5m GABION WALL
	PROPOSED 1.0m GABION WALL
	PROPOSED 0.5m GABION WALL
	PROPOSED HILLSIDE CUT
	PROPOSED CULVERT EXTENSION AND OUTLET
	PROPOSED SUMP
LEGEND - EXISTING	
	BOUNDARY
	EDGE LINE
	CENTRELINE
	EDGE OF SEAL
	FENCE
	TOP OF BATTER
	BOTTOM OF BATTER
	WALL TOP
	WALL BOTTOM
	SUMP

DATUM RL. 290.00																										
VERTICAL ALIGNMENT	L=7.11m G=2.94%	L=2.89m G=2.91%	L=10m G=2.91%	L=7.37m G=2.89%	L=2.63m G=3.78%	L=5m G=3.69%	L=5m G=3.3%	L=5m G=3.01%	L=5m G=3.07%	L=5m G=3.04%	L=5m G=2.88%	L=5m G=2.86%	L=8.02m G=2.95%	L=4.01m G=2.81%	L=4.01m G=2.78%	L=5m G=2.64%	L=5m G=2.78%	L=5m G=3.01%	L=5m G=3.76%	L=5m G=3.92%	L=5m G=4.31%	L=5m G=4.42%	L=5m G=4.92%	L=2.26m G=4.85%	L=2.74m G=4.51%	L=10m G=4.42%
HORIZONTAL ALIGNMENT	L=28.93m R=165.23m	L=20.26m				L=34.60m R=116.77m						L=12.03m			L=43.26m R=103.46m									L=21.64m		
LEVEL DIFFERENCE CUT - / FILL +	-0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DESIGN SURFACE LEVEL	300.010	300.179	300.263	300.554	300.767	300.866	301.051	301.216	301.366	301.520	301.671	301.816	301.872	302.109	302.221	302.381	302.521	302.671	302.859	303.055	303.270	303.492	303.738	303.847	303.970	304.030
EXISTING SURFACE LEVEL	300.01	300.18	300.26	300.55	300.77	300.87	301.05	301.22	301.37	301.52	301.67	301.82	301.87	302.11	302.22	302.38	302.52	302.67	302.86	303.06	303.27	303.49	303.74	303.85	303.97	304.03
CHAINAGE CENTRE LINE	5101.35	5107.11	5110.00	5120.00	5127.37	5130.00	5135.00	5140.00	5145.00	5150.00	5155.00	5160.00	5161.98	5170.00	5174.01	5180.00	5185.00	5190.00	5195.00	5200.00	5205.00	5210.00	5215.00	5217.26	5220.00	5221.35

LONGITUDINAL SECTION - ROAD04
HORZ 1:200 VERT 1:200



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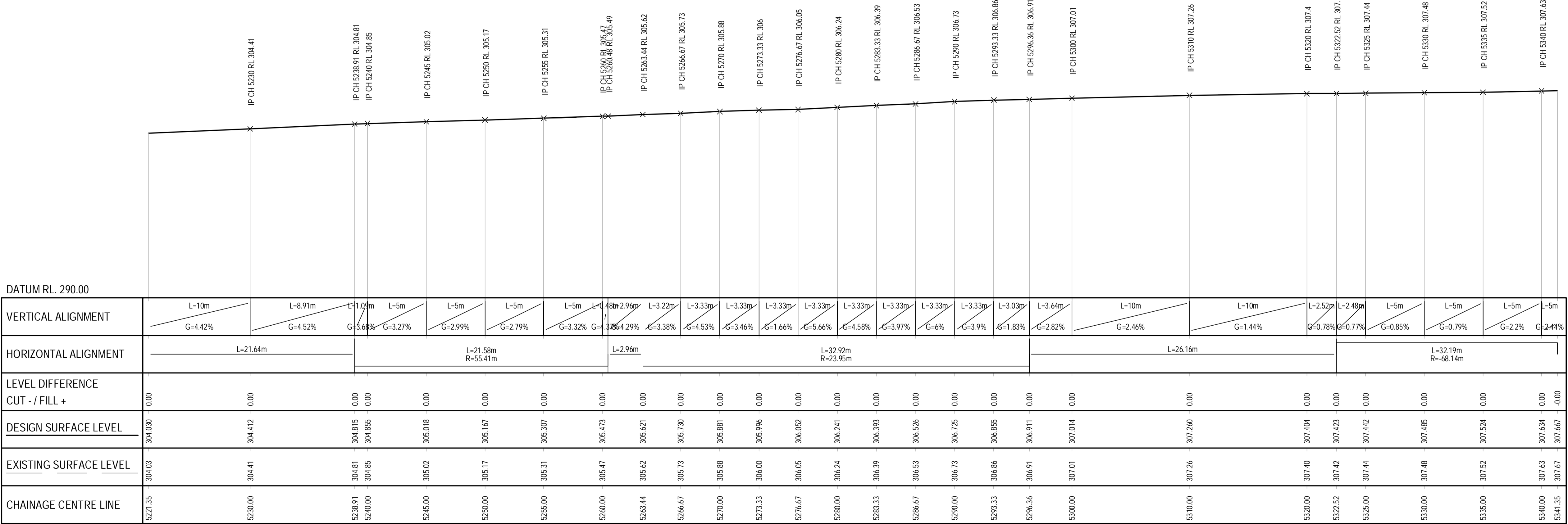
<div><div>Christchurch City Council</div><div></div></div> <div>TECHNICAL SERVICES AND DESIGN</div>		DATUM	C.D.D.	NAME	SIGNED	DATE	APPROVED		CONSULTANT	<div><div></div><div>CLIENTS PEOPLE PERFORMANCE</div></div> <div>Level 3, 138 Victoria Street, Christchurch 8013 New Zealand T 64 3 378 0900 F 64 3 377 8575 E chcmail@ghd.co.nz W www.ghd.co.nz</div>		PROJECT TITLE <div>DYERS PASS ROAD SAFETY IMPROVEMENTS SITE 4 - CH4887 TO 5395</div>		DRAWING TITLE <div>SITE PLAN AND LONGITUDINAL SECTION SHEET 3</div>		CONTRACT NUMBER	ORIGINAL SHEET SIZE	SCALES
		CAD DRAWING FILE REF.	A1	1:200														
		CPG PROJECT FILE NUMBER		SHEET		DO NOT SCALE												
				6		OF 26												
		BENCH MK.	DESIGNED	A. MALDEN	AM*	14/02/20	FOR TENDER											
		RL	DES. REVIEW	A. WATT	AW*	14/02/20	DATE		SIGNED									
		SURVEY	DRAWN	G. ALDERSLEY	GA*	14/02/20	14/02/20		DM*									
		SURVEY LB	DRW. CHECK	G. DOUGHERTY	GD*	14/02/20	FOR CONSTRUCTION											
		© COPYRIGHT CHRISTCHURCH CITY COUNCIL AERIAL PHOTOGRAPHY © COPYRIGHT TERRALINK INTERNATIONAL LIMITED				DATE		SIGNED		CONSULTANT DRAWING SHEET REF.		CONSULTANT FILE REF.		This Drawing must not be used for Construction unless signed as Approved				
		DRAIN. REF.									04-C102		51-38096					
		SAP WBS																



LOCATION PLAN
SCALE: NTS



LEGEND	
	NEW 100mm WIDE EDGE LINE
	PROPOSED CENTRE LINE
	PROPOSED OFFSET DISH CHANNEL
	PROPOSED BARRIER WITH CONTINUOUS MOTORCYCLE PROTECTION RAIL
	PROPOSED 1.5m GABION WALL
	PROPOSED 1.0m GABION WALL
	PROPOSED 0.5m GABION WALL
	PROPOSED HILLSIDE CUT
	PROPOSED CULVERT EXTENSION AND OUTLET
	PROPOSED SUMP
LEGEND - EXISTING	
	BOUNDARY
	EDGE LINE
	CENTRELINE
	EDGE OF SEAL
	FENCE
	TOP OF BATTER
	BOTTOM OF BATTER
	WALL TOP
	WALL BOTTOM
	SUMP



LONGITUDINAL SECTION - ROAD04
HORZ 1:200 VERT 1:200

IMPORTANT SERVICES NOTE:

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Christchurch City Council

TECHNICAL SERVICES AND DESIGN

DATUM

BENCH MK.

RL

SURVEY

SURVEY LB

DRAIN. REF.

SAP WBS

C.D.D.

DESIGNED

DES. REVIEW

DRAWN

DRW. CHECK

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AERIAL PHOTOGRAPHY © COPYRIGHT
TERRALINK INTERNATIONAL LIMITED

NAME

SIGNED

DATE

APPROVED

FOR TENDER

DATE

SIGNED

FOR CONSTRUCTION

DATE

SIGNED

CONSULTANT

GHD

Level 3, 138 Victoria Street, Christchurch 8013 New Zealand
T 64 3 378 0900 F 64 3 377 8575 E c.homal@ghd.co.nz W www.ghd.co.nz

CONSULTANT DRAWING SHEET REF.
04-C103

CONSULTANT FILE REF.
51-38096

PROJECT TITLE

DYERS PASS ROAD
SAFETY IMPROVEMENTS
SITE 4 - CH4887 TO 5395

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DRAWING TITLE

SITE PLAN AND
LONGITUDINAL SECTION
SHEET 4

CONTRACT NUMBER

CAD DRAWING FILE REF.

CPG PROJECT FILE NUMBER

ORIGINAL SHEET SIZE

A1

SCALE

1:200

DO NOT SCALE

SHEET

7

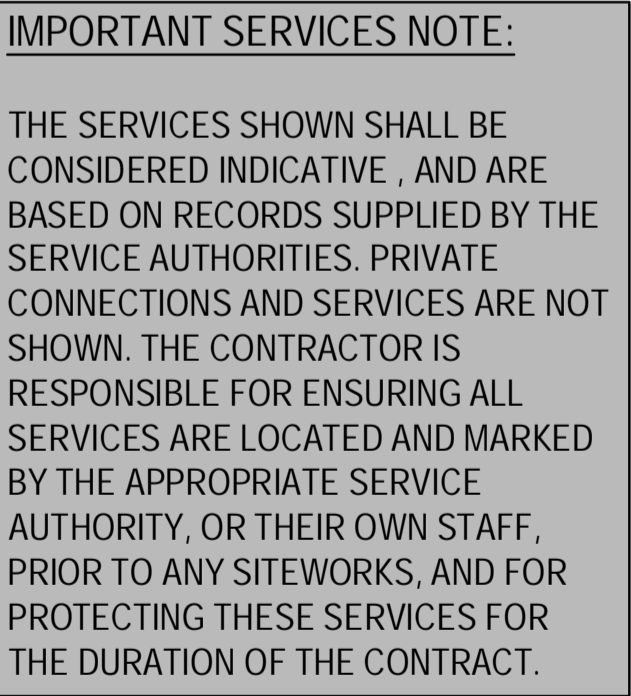
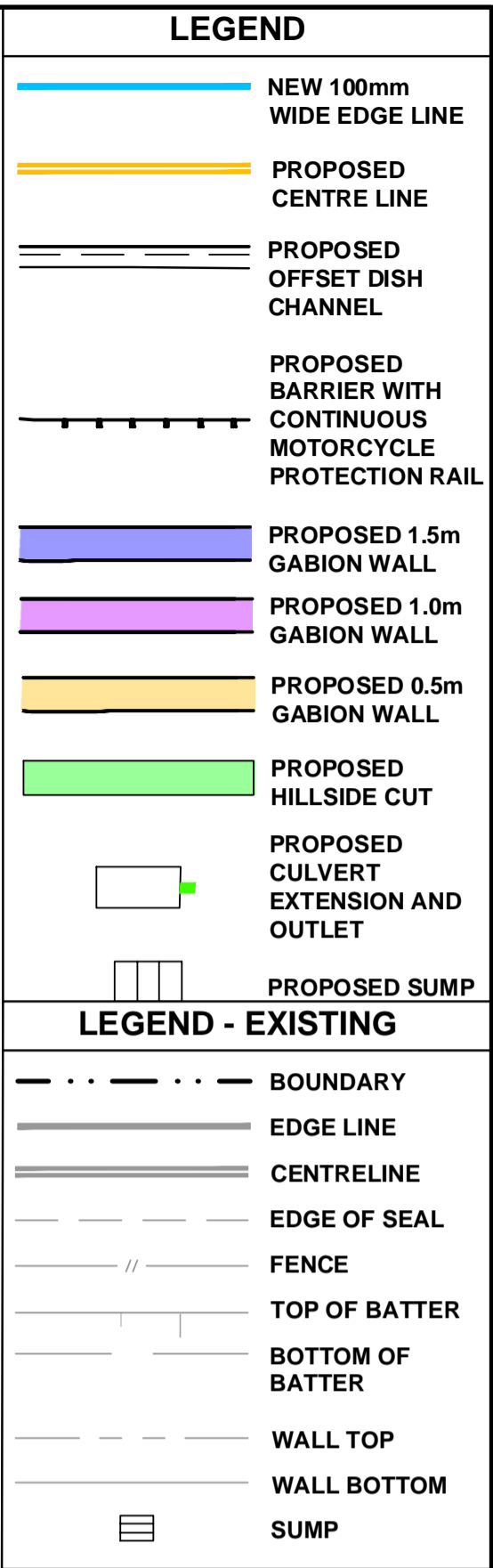
OF 26

PLOT DATE: 14 February, 2020 - 4:52 PM

BY: Gina Aldersley

Note: * indicates signatures on original issue of drawing or last revision of drawing

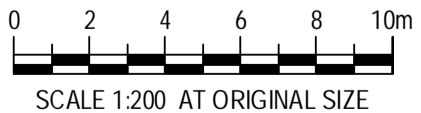
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FOR TENDER
NOT FOR CONSTRUCTION

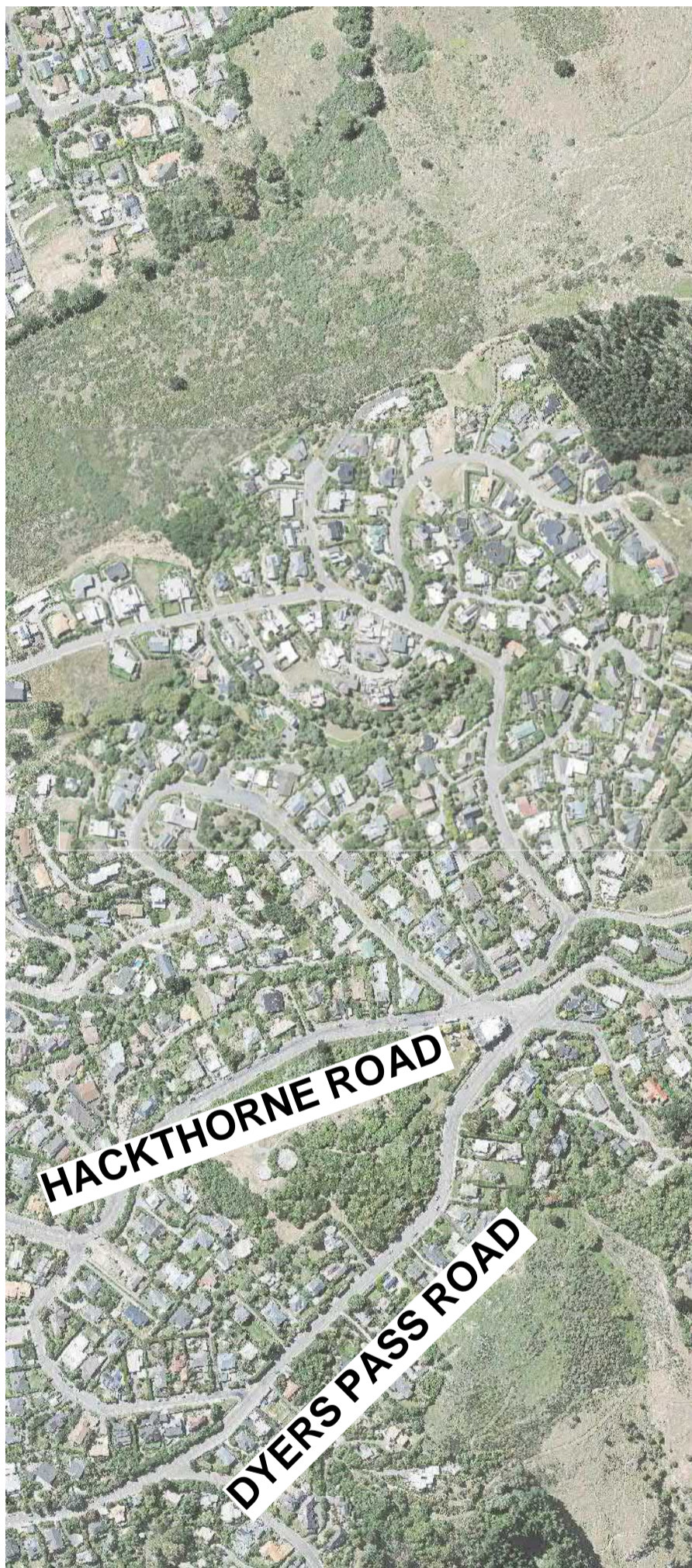
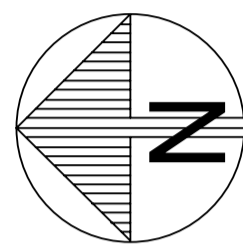
C	FOR TENDER	DM*	14/02/20
B	FOR SAFETY AUDIT	DM*	22/10/19
A	PRELIMINARY		
ISSUE	AMENDMENTS	SIGNED	DATE

CONTRACT NUMBER	ORIGINAL SHEET SIZE A1	SCALES 1:200 DO NOT SCALE	
CAD DRAWING FILE REF.			
CPG PROJECT FILE NUMBER		SHEET 8	OF 26



DYERS PASS ROAD - SAFETY IMPROVEMENTS

SITE 5 - CH5503 TO 5717



LOCATION PLAN
SCALE 1:5000

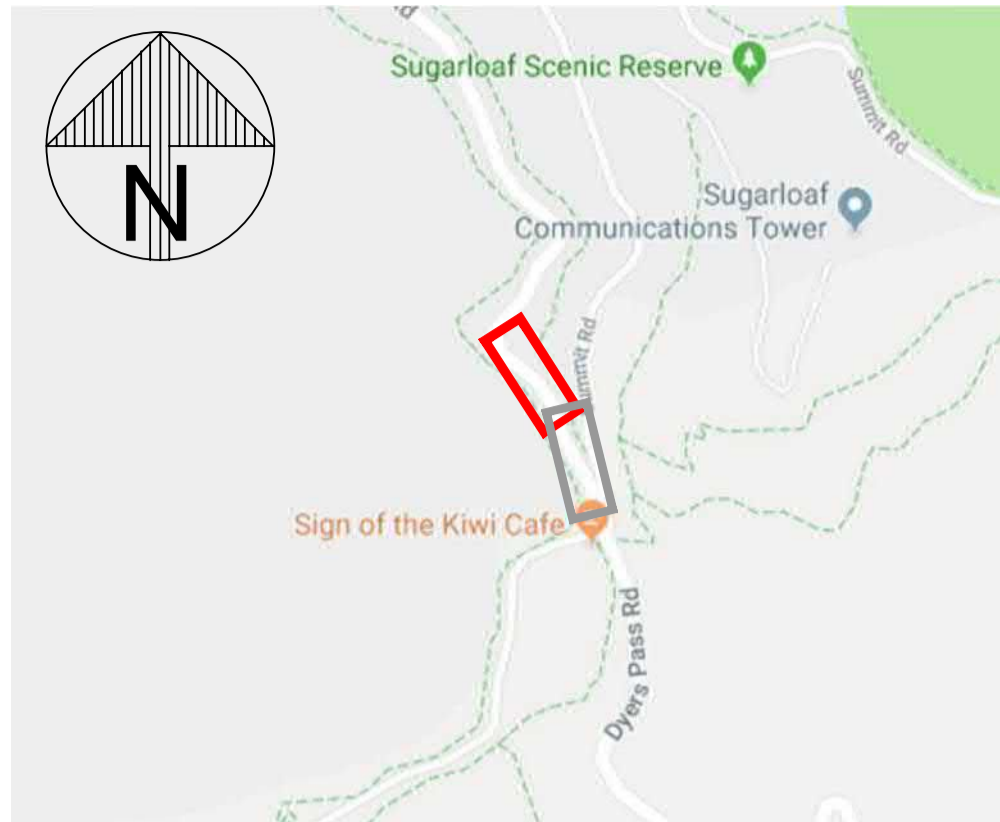


FOR TENDER
NOT FOR CONSTRUCTION

C	FOR TENDER	DM*	14/02/20
B	FOR SAFETY AUDIT	DM*	22/10/19
A	PRELIMINARY		
ISSUE	AMENDMENTS	SIGNED	DATE

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<div><div>Christchurch City Council</div><div></div><div>TECHNICAL SERVICES AND DESIGN</div></div>	DATUM	C.D.D.	NAME	SIGNED	DATE	APPROVED		CONSULTANT	<div><div></div><div>Level 3, 138 Victoria Street, Christchurch 8013 New Zealand T 64 3 378 0900 F 64 3 377 8576 E chomail@ghd.co.nz W www.ghd.co.nz</div><div>CONSULTANT DRAWING SHEET REF: 05-C001</div><div>CONSULTANT FILE REF: 51-38096</div></div>	PROJECT TITLE	<div><div>DYERS PASS ROAD SAFETY IMPROVEMENTS SITE 5 - CH5503 TO 5717</div><div>This Drawing must not be used for Construction unless signed as Approved</div></div>	DRAWING TITLE	<div><div>COVER SHEET AND LOCATION PLAN</div></div>	CONTRACT NUMBER	ORIGINAL SHEET SIZE	SCALES
	BENCH MK.	DESIGNED	A. MALDEN	AM*	14/02/20	FOR TENDER		CAD DRAWING FILE REF.		A1		1:5000				
	RL	DES. REVIEW	A. WATT	AW*	14/02/20	DATE	SIGNED					DO NOT SCALE				
	SURVEY	DRAWN	G. ALDERSLEY	GA*	14/02/20	14/02/20	DM*									
	SURVEY LB	DRW. CHECK	G. DOUGHERTY	GD*	14/02/20	FOR CONSTRUCTION		CPG PROJECT FILE NUMBER								
						DATE	SIGNED					SHEET				
	DRAIN. REF.	© COPYRIGHT CHRISTCHURCH CITY COUNCIL AERIAL PHOTOGRAPHY © COPYRIGHT TERRALINK INTERNATIONAL LIMITED												1	OF 15	
	SAP WBS															



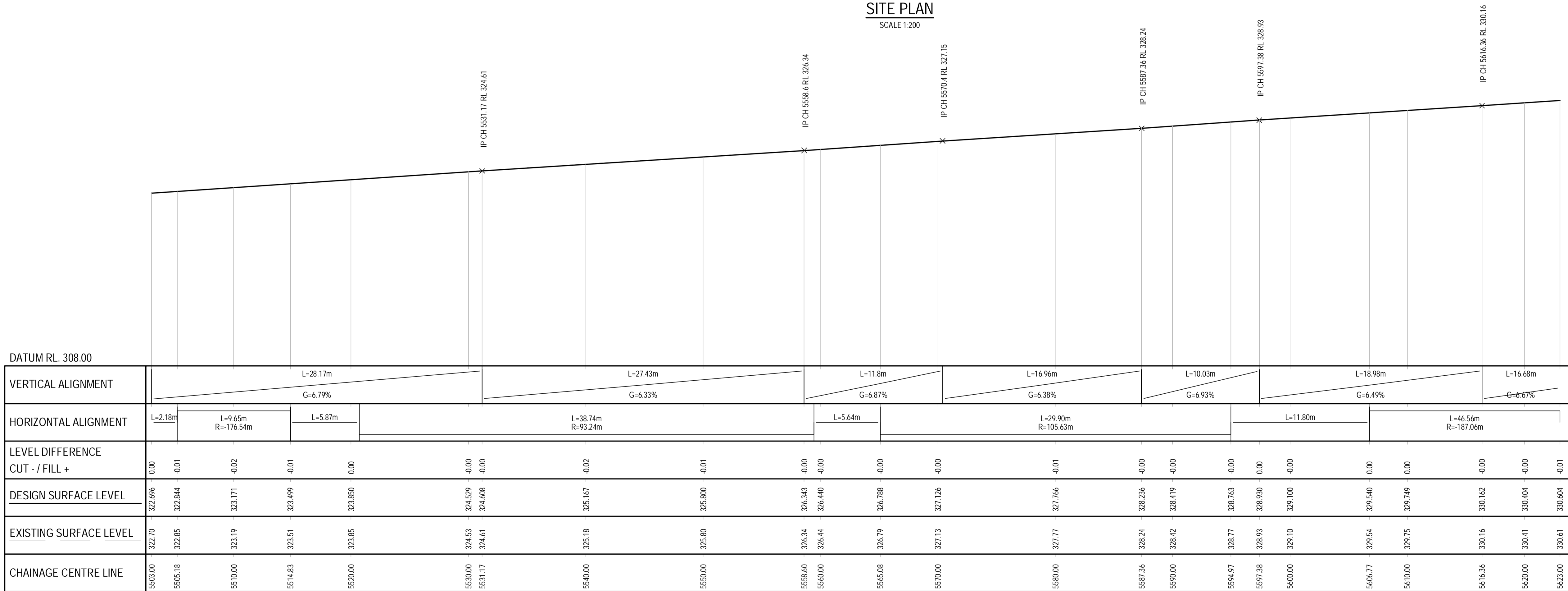
LOCATION PLAN

SCALE: NTS



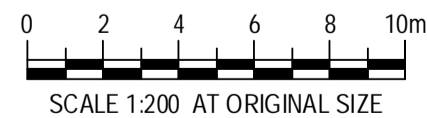
SITE PLAN

SCALE 1:200



LONGITUDINAL SECTION - ROAD05

HORZ 1:200 VERT 1:200



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Christchurch City Council

TECHNICAL SERVICES AND DESIGN

DATUM

BENCH MK.

RL

SURVEY

SURVEY LB

DRAIN. REF.

SAP WBS

C.D.D.

DESIGNED

DRAWN

DRW. CHECK

NAME

A. MALDEN

A. WATT

G. ALDERSLEY

G. DOUGHERTY

SIGNED

AM*

AW*

GA*

GD*

DATE

14/02/20

14/02/20

14/02/20

APPROVED

FOR TENDER

DATE

SIGNED

DM*

FOR CONSTRUCTION

DATE

SIGNED

CONSULTANT

GHD

CLIENTS | PEOPLE | PERFORMANCE

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CONSULTANT DRAWING SHEET REF.

05-C100

CONSULTANT FILE REF.

51-38096

PROJECT TITLE

DYERS PASS ROAD
SAFETY IMPROVEMENTS
SITE 5 - CH5503 TO 5717

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DRAWING TITLE

SITE PLAN AND
LONGITUDINAL SECTION
SHEET 1

CONTRACT NUMBER

CAD DRAWING FILE REF.

CPG PROJECT FILE NUMBER

ORIGINAL SHEET SIZE

A1

SCALES

1:200

DO NOT SCALE

SHEET

4

OF 15

ISSUE

AMENDMENTS

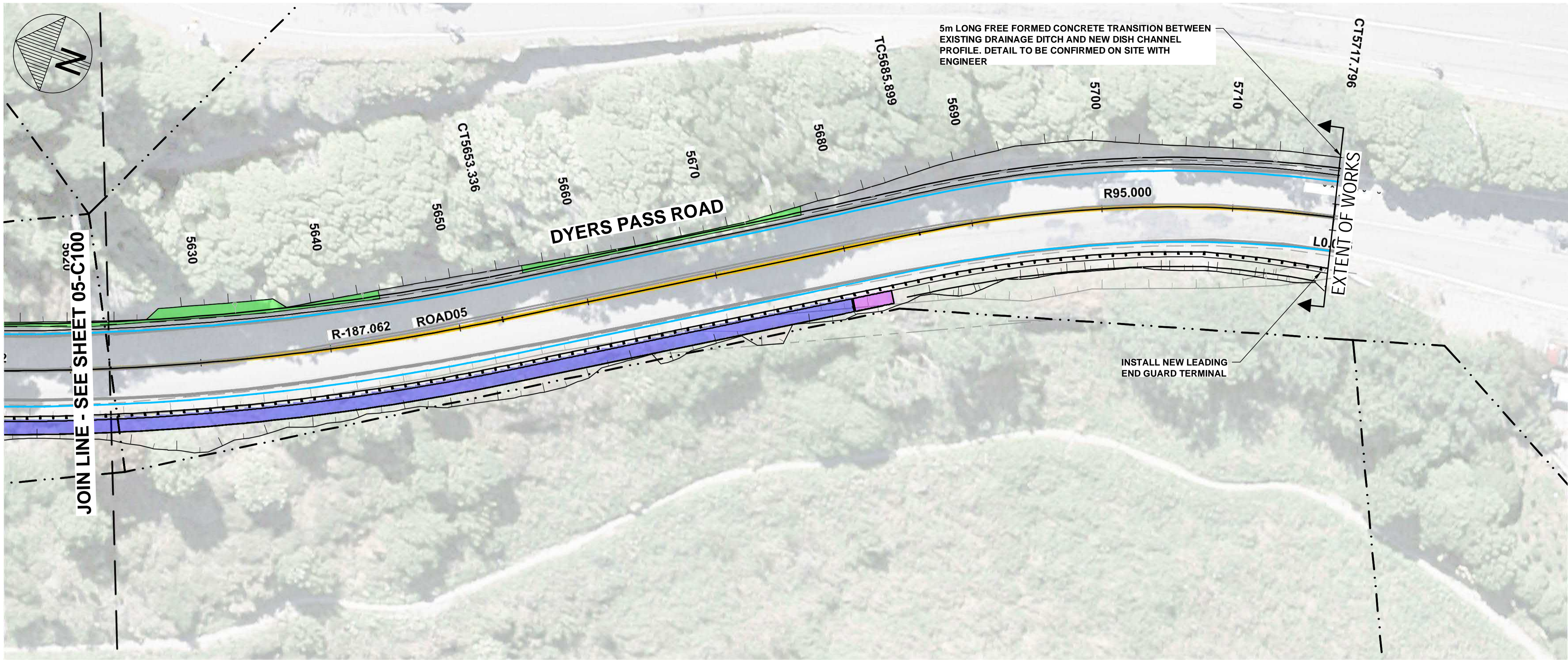
SIGNED

DATE

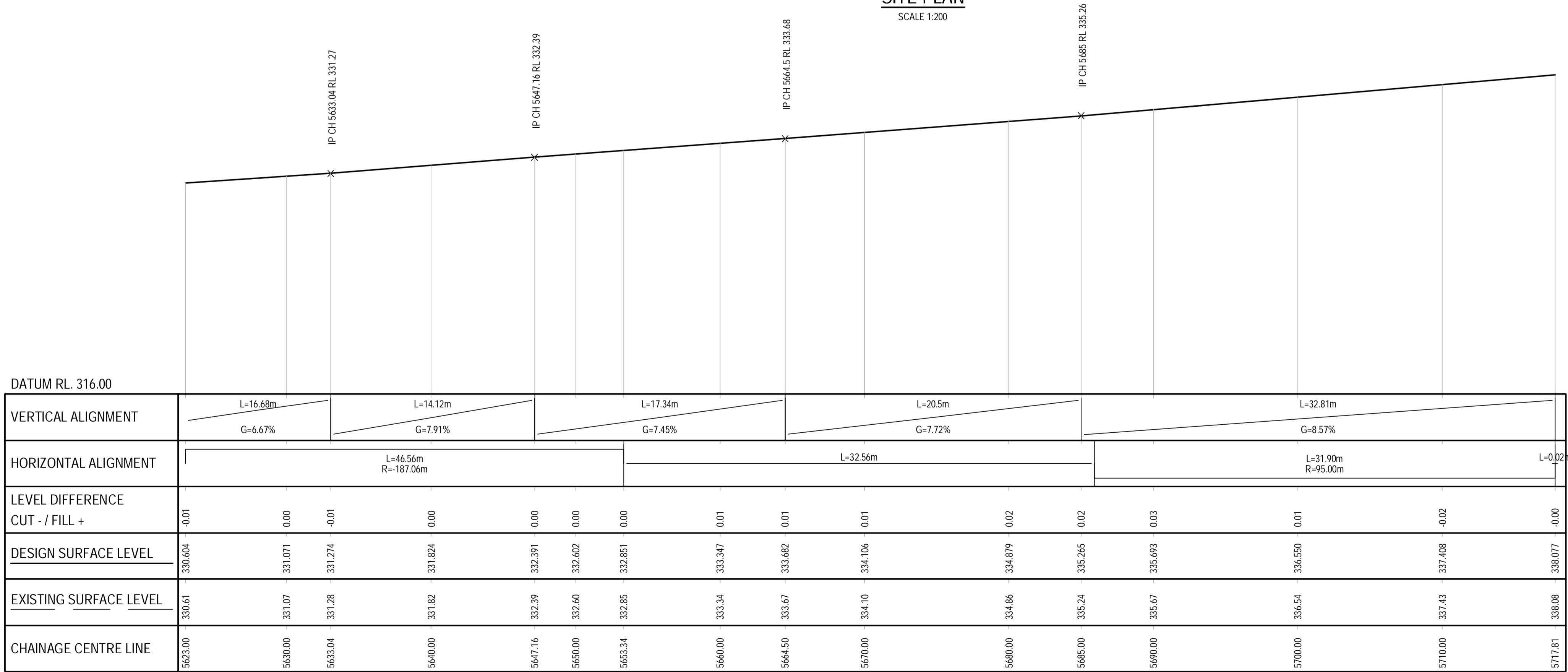
PLOT DATE: 18 February, 2020 - 8:51 AM BY: Gina Aldersley Note: * indicates signatures on original issue of drawing or last revision of drawing CADD FILE NO: G:\5138096\CADD\Drawing\51-38096-05-C100_C101.dwg



LOCATION PLAN
SCALE: NTS



SITE PLAN
SCALE 1:200



LONGITUDINAL SECTION - ROAD05
HORZ 1:200 VERT 1:200

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<div><div>Christchurch City Council</div><div></div></div> <div>TECHNICAL SERVICES AND DESIGN</div>	DATUM	C.D.D.	NAME	SIGNED	DATE	APPROVED		<div>CONSULTANT</div> <div> CLIENTS PEOPLE PERFORMANCE</div> <div>Level 3, 138 Victoria Street, Christchurch 8013 New Zealand T 64 3 378 0900 F 64 3 377 8576 E chtml@ghd.co.nz W www.ghd.co.nz</div> <div>CONSULTANT DRAWING SHEET REF. 05-C101</div> <div>CONSULTANT FILE REF. 51-38096</div>	PROJECT TITLE		<div>DYERS PASS ROAD SAFETY IMPROVEMENTS SITE 5 - CH5503 TO 5717</div>	DRAWING TITLE		<div>SITE PLAN AND LONGITUDINAL SECTION SHEET 2</div>	CONTRACT NUMBER	ORIGINAL SHEET SIZE	SCALES
	BENCH MK.		DESIGNED	A. MALDEN	AM*	14/02/20	FOR TENDER		CAD DRAWING FILE REF.	A1		1:200					
	RL		DES. REVIEW	A. WATT	AW*	14/02/20	DATE						SIGNED				
	SURVEY		DRAWN	G. ALDERSLEY	GA*	14/02/20	14/02/20		DM*	CPG PROJECT FILE NUMBER		SHEET	DO NOT SCALE				
	SURVEY LB		DRW. CHECK	G. DOUGHERTY	GD*	14/02/20	FOR CONSTRUCTION										
						DATE	SIGNED										
	DRAIN. REF.		CHRISTCHURCH CITY COUNCIL														
	SAP WBS		TERRALINK INTERNATIONAL LIMITED														
			S 15, S 7, S 3, S 27, S 53, S 6, S 23, S 5, S 7														



FOR TENDER
NOT FOR CONSTRUCTION

C	FOR TENDER	DM*	14/02/20
B	FOR SAFETY AUDIT	DM*	22/10/19
A	PRELIMINARY		
ISSUE	AMENDMENTS	SIGNED	DATE

DATE		C.O.D.		NAME		SIGNED		DATE		APPROVED	
BENCH MKC.				DESIGNED		A. MALDEN		AM		14/02/20	
RL				D.CS. REVIEW		A. WATT		AW		14/02/20	
SURVEY				DRAWN		G. ALDERSEY		GA		14/02/20	
SURVEY LB				DRW. CHECK		G. DOUGHERTY		GD		14/02/20	
<div><p>No. 823 <5> .7 CHRISTCHURCH CITY COUNCIL \$16 <5> .7 <7> 583 <5> .7 No. 823 <5> .7 TERALINK INTERNATIONAL LIMITED</p></div>											
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CONSULTANT	
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Level 3, 138 Victoria Street, Christchurch 8013 New Zealand T 64 3 378 0900 F 64 3 377 8575 E ehcmail@ghd.co.nz W www.ghd.co.nz	
CONSULTANT DRAWING SHEET REF.	CONSULTANT FILE REF.
06-C001	51-38096

PROJECT TITLE

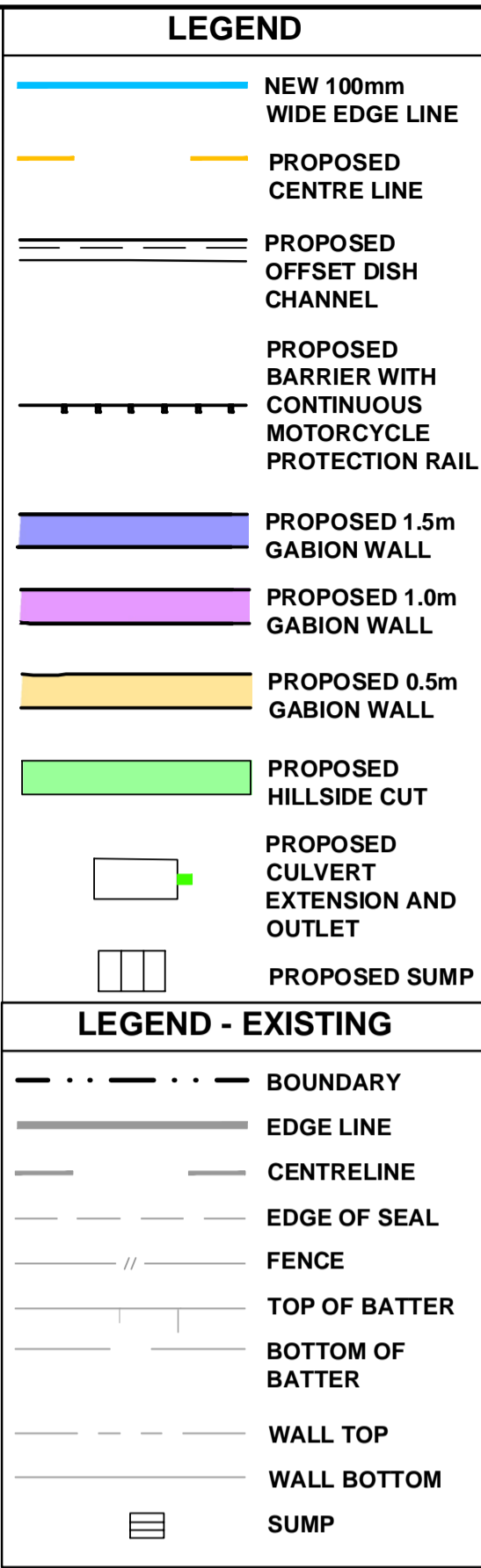
**DYERS PASS ROAD
SAFETY IMPROVEMENTS
SITE 6 - CH2407 TO 2685**

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DRAWING TITLE

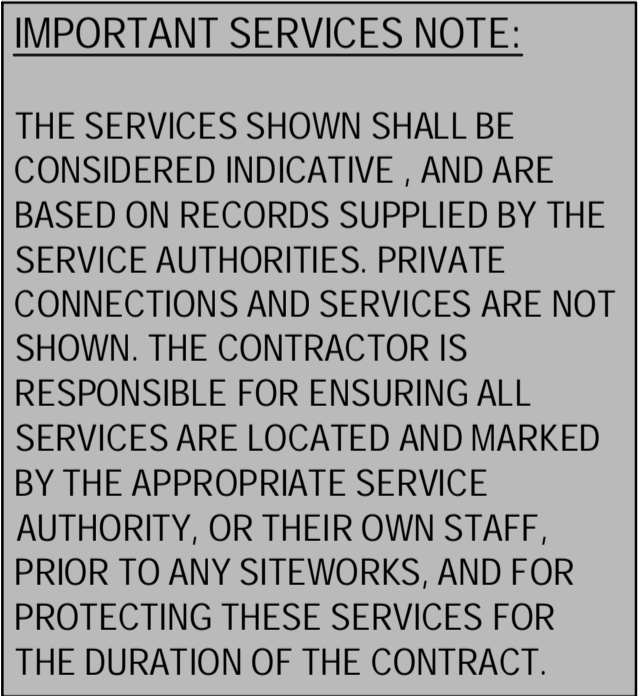
**COVER SHEET
AND LOCATION PLAN**

CONTRACT NUMBER	ORIGINAL SHEET SIZE A1	SCALES 1:5000
CAD DRAWING FILE REF.		DO NOT SCALE
CPG PROJECT FILE NUMBER		SHEET 1 OF 16



SITE PLAN

SCALE 1:200

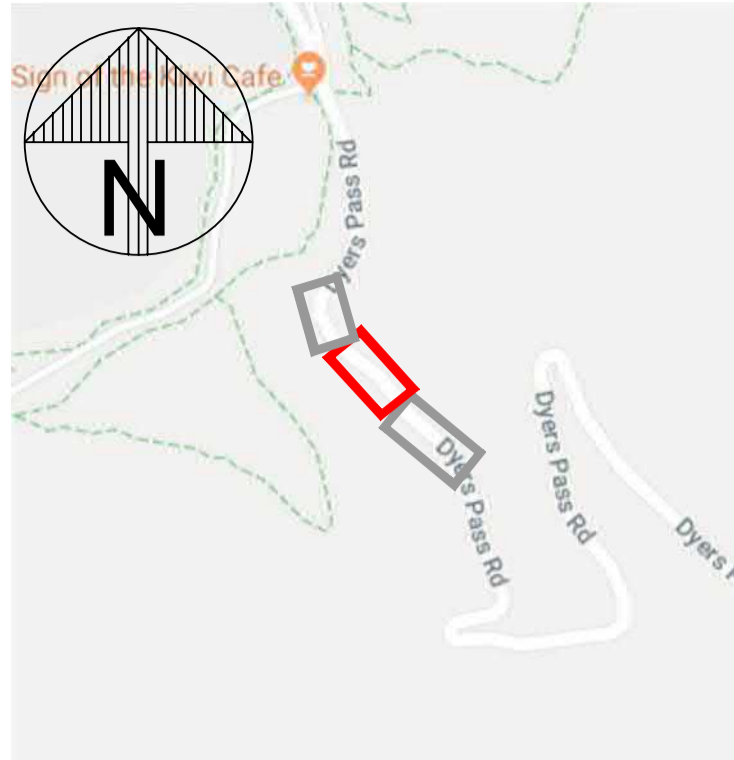


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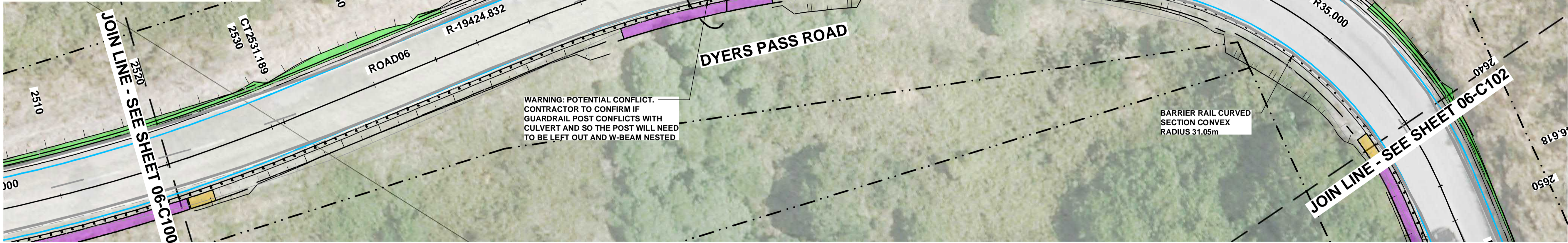
SCALE 1:200 AT ORIGINAL SIZE

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HORIZONTAL ALIGNMENT	L=8.05m		L=57.19m R=149.00m										L=12.65m		L=54.30m R=150.00m						
LEVEL DIFFERENCE CUT - / FILL +	0.00	0.00	0.00	0.00	-0.01	-0.02	-0.00	0.01	-0.01	-0.00	-0.00	-0.00	0.01	0.01	0.01	-0.02	-0.05	-0.04	-0.03	-0.03	-0.00
DESIGN SURFACE LEVEL	284.401 284.503	284.974 285.203	285.203 285.484	285.484 286.427	286.427 287.370	287.370 288.213	288.213 288.319	288.319 289.312	289.312 290.306	290.306 290.518	290.518 290.722	290.722 291.280	291.280 291.949	291.949 292.250	292.250 293.219	293.219 293.715	293.715 294.235	294.235 295.183	295.183 295.294	295.294 296.205	296.205
EXISTING SURFACE LEVEL	284.50 284.63	284.97 287.05	285.20 285.48	285.48 286.43	287.39 288.43	288.21 288.31	288.31 289.32	289.32 290.31	290.31 290.52	290.52 290.72	290.72 291.27	291.27 291.93	291.93 292.24	292.24 293.24	293.24 293.76	293.76 294.27	294.27 295.21	295.21 295.33	295.33 296.20	296.20	
CHAINAGE CENTRE LINE	2399.00 2400.00	2404.63 2407.05	2410.00	2420.00	2430.00	2438.93 2440.00	2450.00	2460.00	2462.14 2464.24	2470.00	2476.89	2480.00	2490.00	2495.12	2500.00	2508.90 2510.00	2519.00				

C	FOR TENDER	DM*	14/02/20
B	FOR SAFETY AUDIT	DM*	22/10/19
A	PRELIMINARY		
ISSUE	AMENDMENTS	SIGNED	DATE

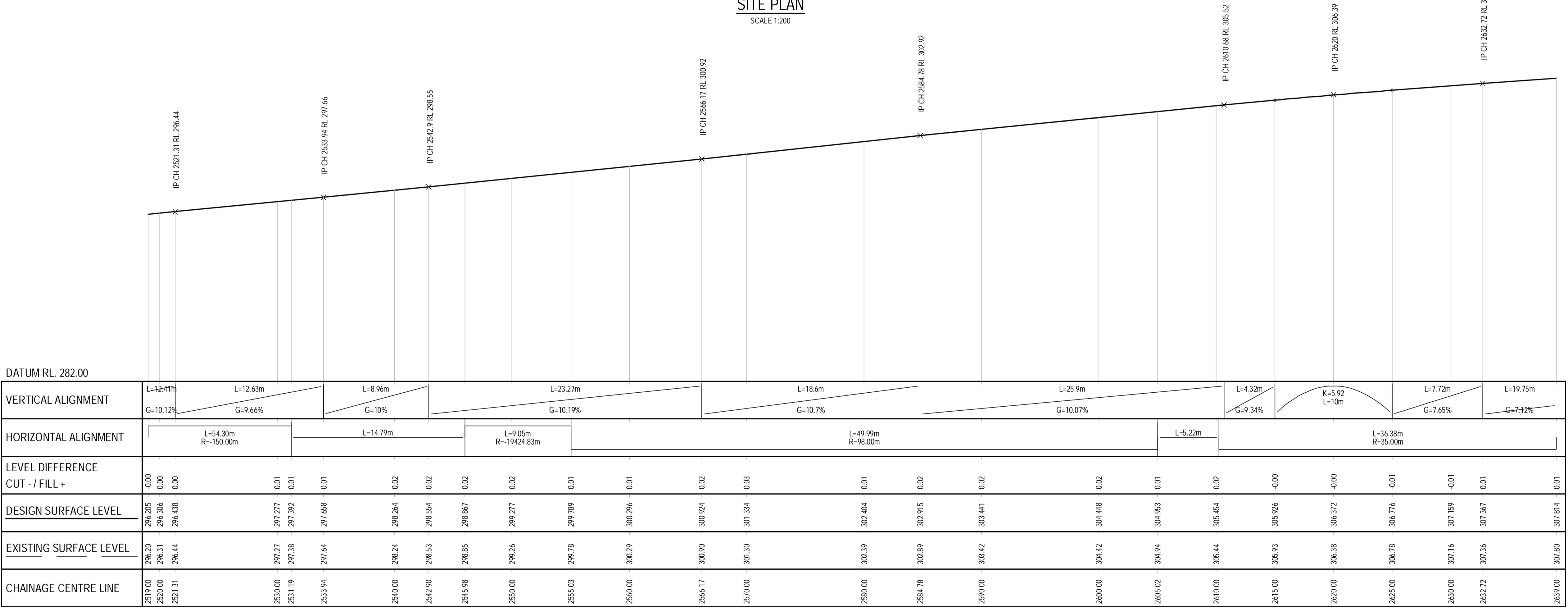


LOCATION PLAN
SCALE: NTS



SITE PLAN
SCALE 1:200

LEGEND	
	NEW 100mm WIDE EDGE LINE
	PROPOSED CENTRE LINE
	PROPOSED OFFSET DISH CHANNEL
	PROPOSED BARRIER WITH CONTINUOUS MOTORCYCLE PROTECTION RAIL
	PROPOSED 1.5m GABION WALL
	PROPOSED 1.0m GABION WALL
	PROPOSED 0.5m GABION WALL
	PROPOSED HILLSIDE CUT
	PROPOSED CULVERT EXTENSION AND OUTLET
	PROPOSED SUMP
LEGEND - EXISTING	
	BOUNDARY
	EDGE LINE
	CENTRELINE
	EDGE OF SEAL
	FENCE
	TOP OF BATTER
	BOTTOM OF BATTER
	WALL TOP
	WALL BOTTOM
	SUMP



LONGITUDINAL SECTION - ROAD06
HORZ 1:200 VERT 1:200

IMPORTANT SERVICES NOTE:

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Christchurch City Council
TECHNICAL SERVICES AND DESIGN

DATUM

BENCH MK

RL

SURVEY

SURVEY LB

DRAIN REF

SAP WBS

C.D.D.

DESIGNED

DES. REVIEW

DRAWN

DRW. CHECK

NAME

A. MALDEN

A. WATT

G. ALDERSLEY

G. DOUGHERTY

SIGNED

AM*

AW*

GA*

GD*

DATE

14/02/20

14/02/20

14/02/20

14/02/20

APPROVED

FOR TENDER

DATE

SIGNED

DM*

FOR CONSTRUCTION

DATE

SIGNED

DM*

CONSULTANT

CLIENTS | PEOPLE | PERFORMANCE

Level 3, 138 Victoria Street, Christchurch 8013 New Zealand
T 64 3 378 0900 F 64 3 377 8576 E chomal@ghd.co.nz W www.ghd.co.nz

CONSULTANT DRAWING SHEET REF.

06-C101

CONSULTANT FILE REF.

51-38096

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PROJECT TITLE

DYERS PASS ROAD
SAFETY IMPROVEMENTS
SITE 6 - CH2407 TO 2685

DRAWING TITLE

SITE PLAN AND
LONGITUDINAL SECTION
SHEET 2

CONTRACT NUMBER

CAD DRAWING FILE REF.

CPG PROJECT FILE NUMBER

ORIGINAL SHEET SIZE

A1

SCALE

1:200

DO NOT SCALE

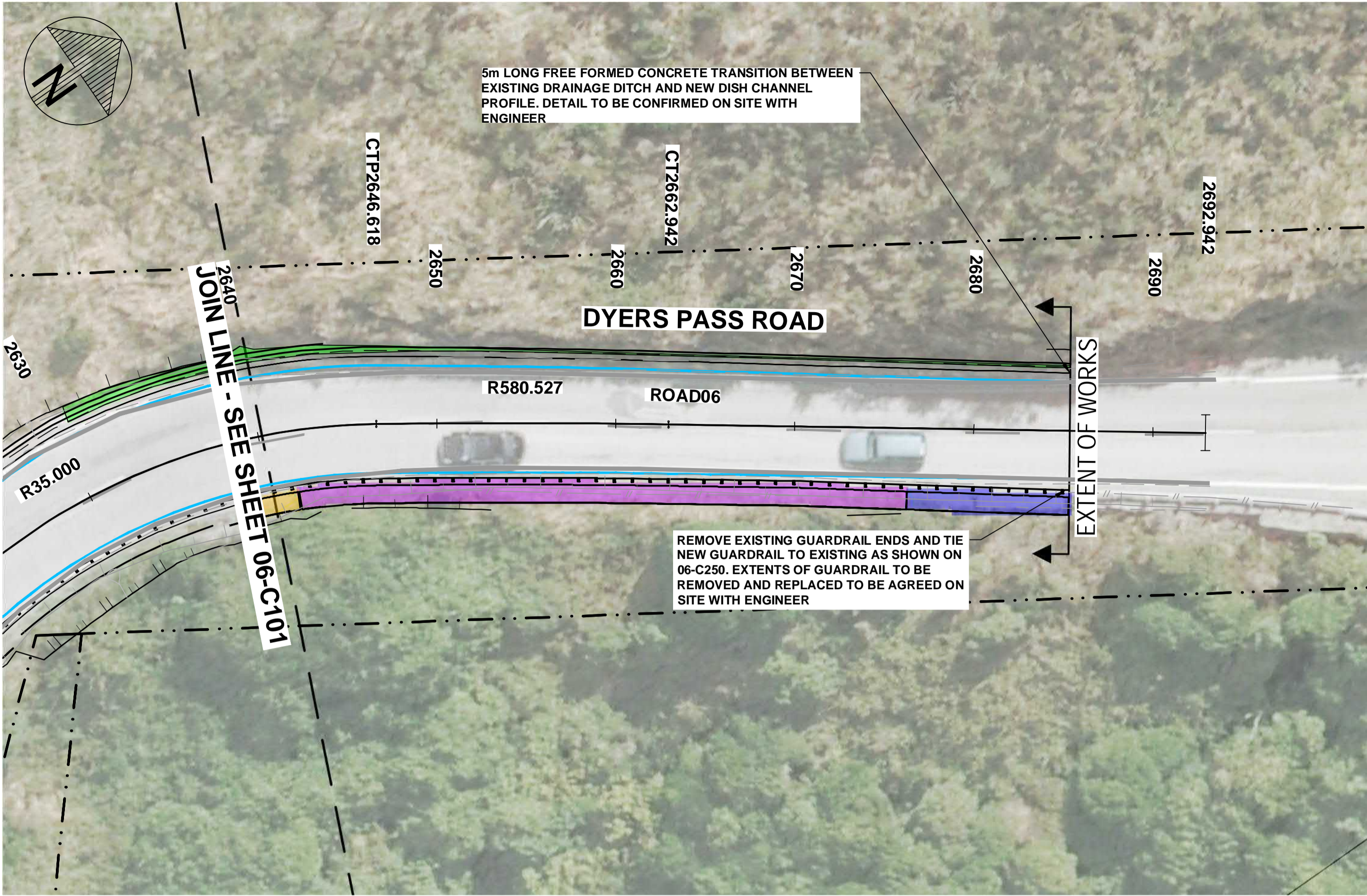
SHEET

5

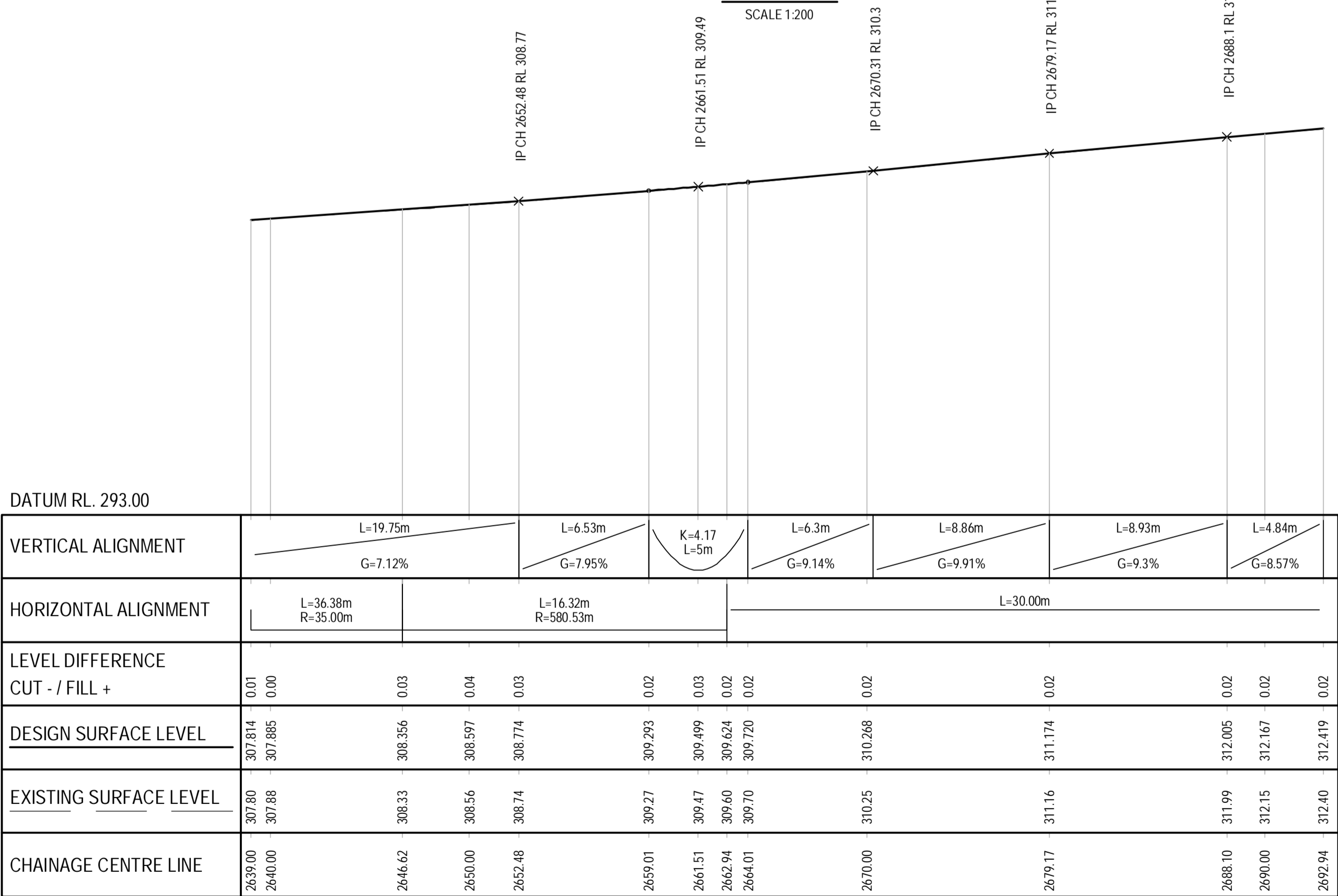
OF 16



LOCATION PLAN
SCALE: NTS



SITE PLAN
SCALE 1:200



LONGITUDINAL SECTION - ROAD06
HORZ 1:200 VERT 1:200

LEGEND	
	NEW 100mm WIDE EDGE LINE
	PROPOSED CENTRE LINE
	PROPOSED OFFSET DISH CHANNEL
	PROPOSED BARRIER WITH CONTINUOUS MOTORCYCLE PROTECTION RAIL
	PROPOSED 1.5m GABIION WALL
	PROPOSED 1.0m GABIION WALL
	PROPOSED 0.5m GABIION WALL
	PROPOSED HILLSIDE CUT
	PROPOSED CULVERT EXTENSION AND OUTLET
	PROPOSED SUMP
LEGEND - EXISTING	
	BOUNDARY
	EDGE LINE
	CENTRELINE
	EDGE OF SEAL
	FENCE
	TOP OF BATTER
	BOTTOM OF BATTER
	WALL TOP
	WALL BOTTOM
	SUMP

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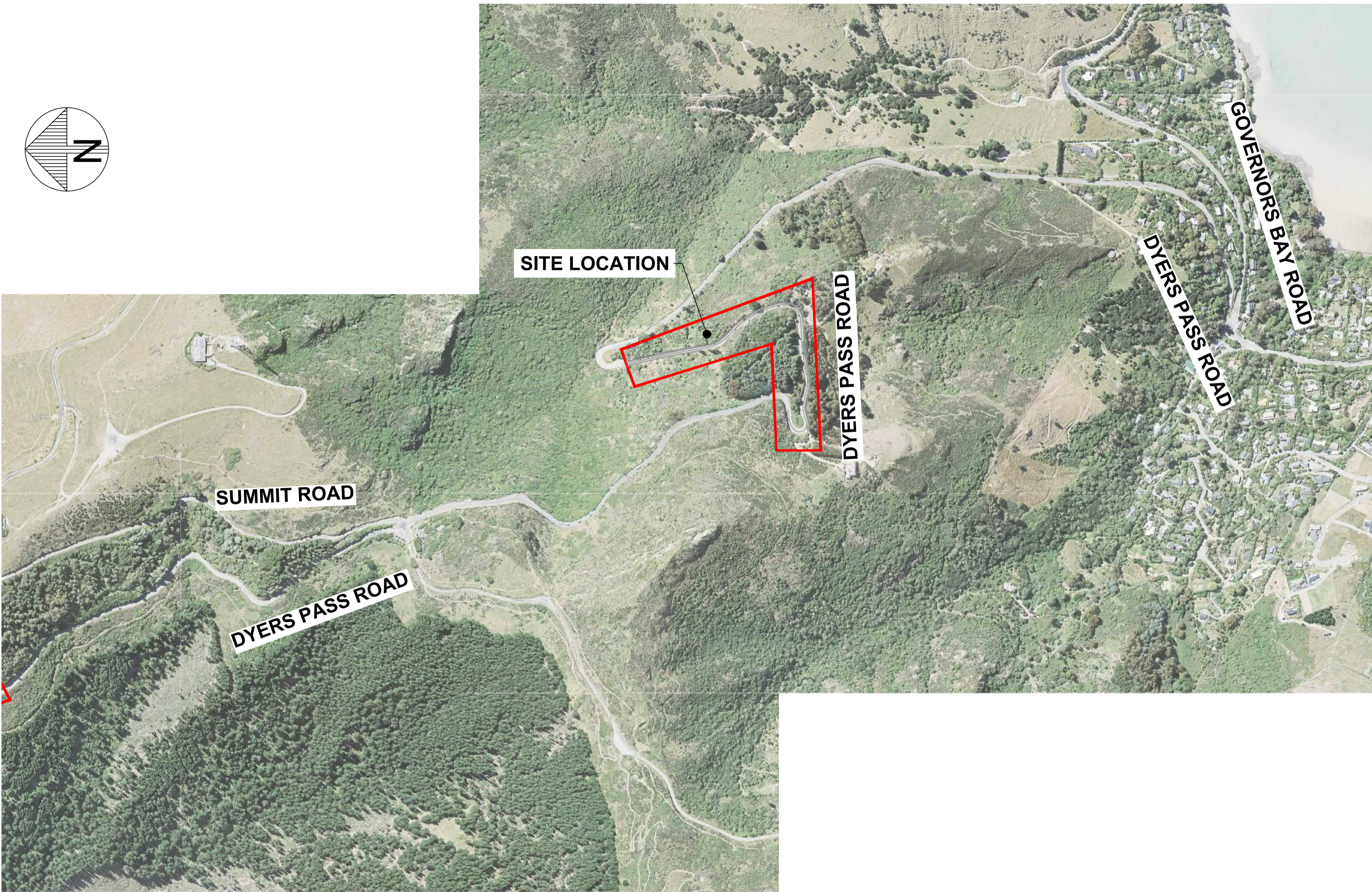
C	FOR TENDER	DM*	14/02/20
B	FOR SAFETY AUDIT	DM*	22/10/19
A	PRELIMINARY		
ISSUE	AMENDMENTS	SIGNED	DATE

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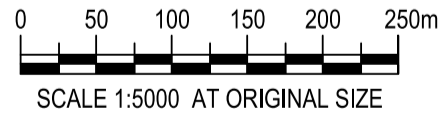
Christchurch City Council TECHNICAL SERVICES AND DESIGN		DATUM BENCH MK. RL SURVEY SURVEY LB DRAIN. REF. SAP. WBS	C.D.D. DESIGNED DES. REVIEW DRAWN DRW. CHECK DATE	NAME A. MALDEN A. WATT G. ALDERSLEY G. DOUGHERTY	SIGNED AM* AW* GA* GD*	DATE 14/02/20 14/02/20 14/02/20 14/02/20	APPROVED FOR TENDER DATE SIGNED FOR CONSTRUCTION DATE SIGNED	CONSULTANT GHD Level 3, 138 Victoria Street, Christchurch 8013 New Zealand T 64 3 378 0900 F 64 3 377 8575 E c.homal@ghd.co.nz W www.ghd.co.nz CONSULTANT DRAWING SHEET REF. 06-C102	PROJECT TITLE DYERS PASS ROAD SAFETY IMPROVEMENTS SITE 6 - CH2407 TO 2685	DRAWING TITLE SITE PLAN AND LONGITUDINAL SECTION SHEET 3	CONTRACT NUMBER CAD DRAWING FILE REF. CPG PROJECT FILE NUMBER	ORIGINAL SHEET SIZE A1 DO NOT SCALE SHEET 6 OF 16
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DYERS PASS ROAD - SAFETY IMPROVEMENTS

SITE 7 - CH1517 TO 2065



LOCATION PLAN
SCALE 1:5000

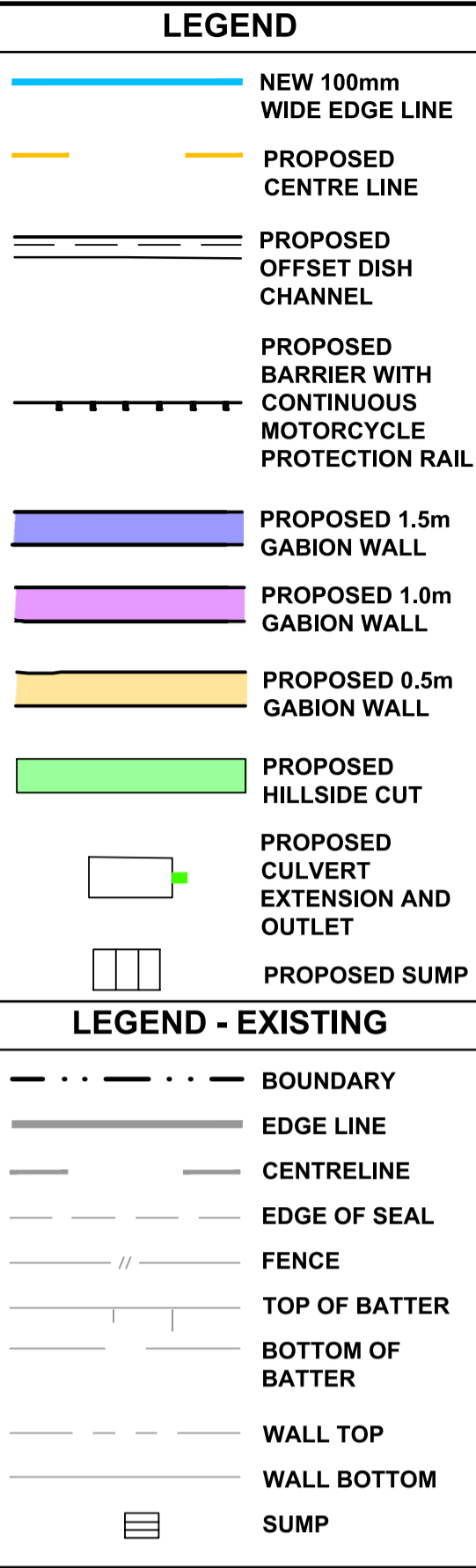


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B	FOR SAFETY AUDIT	DM*	22/10/19
A	PRELIMINARY		
ISSUE	AMENDMENTS	SIGNED	DATE

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<div><div>Christchurch City Council</div><div></div><div>TECHNICAL SERVICES AND DESIGN</div></div>	DATUM	C.D.D.	NAME		SIGNED	DATE	APPROVED		CONSULTANT	<div><div></div><div>CLIENTS PEOPLE PERFORMANCE</div><div>Level 3, 138 Victoria Street, Christchurch 8013 New Zealand T 64 3 378 0900 F 64 3 377 8575 E chomail@ghd.co.nz W www.ghd.co.nz</div></div>	PROJECT TITLE <div>DYERS PASS ROAD SAFETY IMPROVEMENTS SITE 7 - CH1517 TO 2065</div> <div>This Drawing must not be used for Construction unless signed as Approved</div>	DRAWING TITLE <div>COVER SHEET AND LOCATION PLAN</div>	CONTRACT NUMBER	ORIGINAL SHEET SIZE	SCALES
	BENCH MK.		DESIGNED	A. MALDEN	AM*	14/02/20	FOR TENDER		<div>CAD DRAWING FILE REF.</div>				A1	1:5000	
	RL		DES. REVIEW	A. WATT	AW*	14/02/20	DATE SIGNED							DO NOT SCALE	
	SURVEY		DRAWN	G. ALDERSLEY	GA*	14/02/20	14/02/20	DM*	<div>GPS PROJECT FILE NUMBER</div>				SHEET	1 OF 20	
	SURVEY LB		DRW. CHECK	G. DOUGHERTY	GD*	14/02/20	FOR CONSTRUCTION								
			© COPYRIGHT CHRISTCHURCH CITY COUNCIL AERIAL PHOTOGRAPHY © COPYRIGHT TERRALINK INTERNATIONAL LIMITED				DATE	SIGNED	CONSULTANT DRAWING SHEET REF.				CONSULTANT FILE REF.		
	DRAIN. REF.								07-C001				51-38096		
SAP WBS															



SCALE: NTS

SCALE 1:200

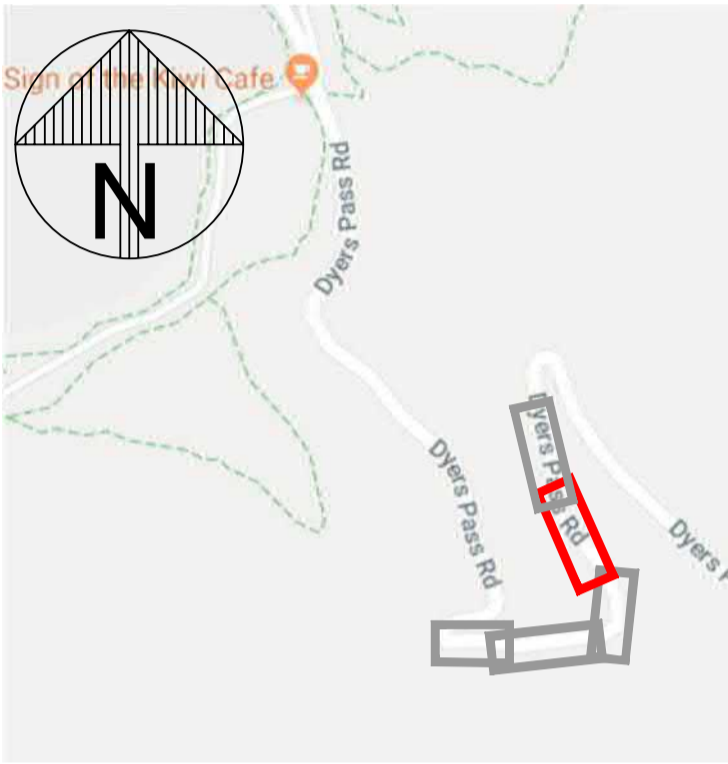


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HORZ 1:200 VERT 1:200





LEGEND	
	NEW 100mm WIDE EDGE LINE
	PROPOSED CENTRE LINE
	PROPOSED OFFSET DISH CHANNEL
	PROPOSED BARRIER WITH CONTINUOUS MOTORCYCLE PROTECTION RAIL
	PROPOSED 1.5m GABION WALL
	PROPOSED 1.0m GABION WALL
	PROPOSED 0.5m GABION WALL
	PROPOSED HILLSIDE CUT
	PROPOSED CULVERT EXTENSION AND OUTLET
	PROPOSED SUMP

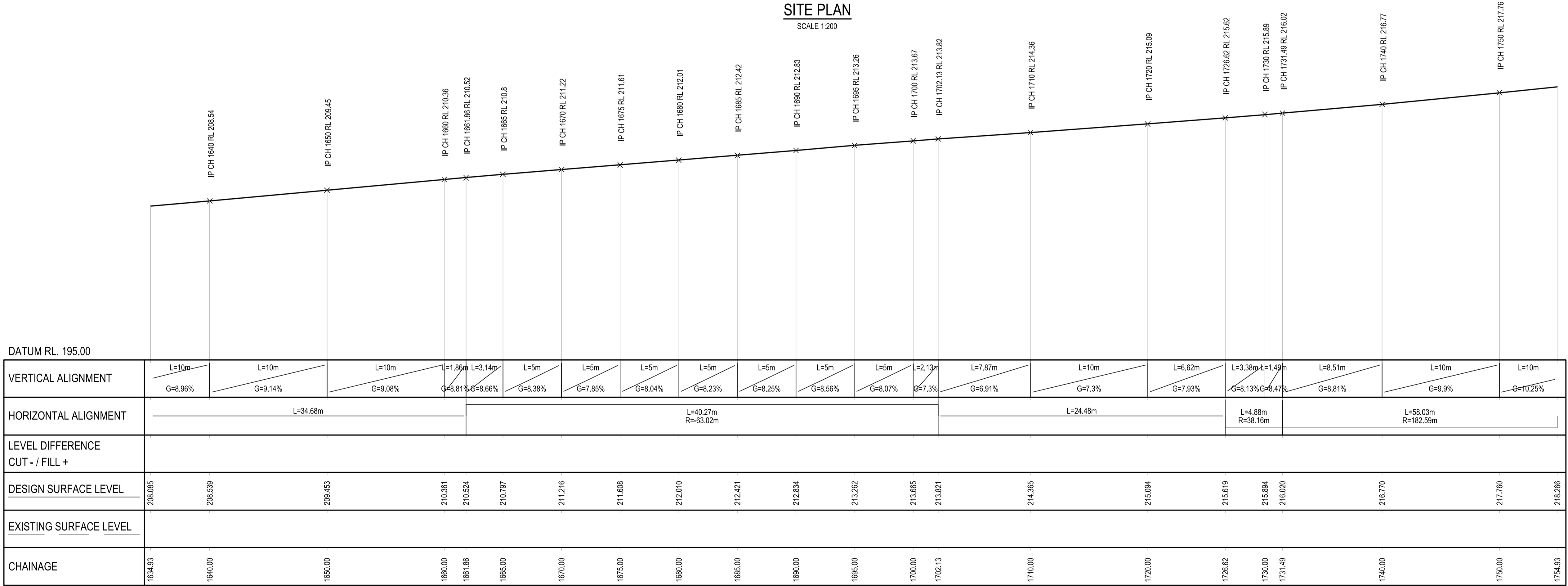
LEGEND - EXISTING	
	EXISTING
	EDGE LINE
	CENTRELINE
	EDGE OF SEAL
	FENCE
	TOP OF BATTER
	BOTTOM OF BATTER
	WALL TOP
	WALL BOTTOM
	SUMP

LOCATION PLAN

SCALE: NTS

SITE PLAN

SCALE 1:200



LONGITUDINAL SECTION - ROAD07



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C	FOR TENDER	DM*	14/02/20
B	FOR SAFETY AUDIT	DM*	22/10/19
A	PRELIMINARY		
ISSUE	AMENDMENTS	SIGNED	DATE

CONTRACT NUMBER	ORIGINAL SHEET SIZE A1	SCALES 1:200 DO NOT SCALE
CAD DRAWING FILE REF.		
CPG PROJECT FILE NUMBER		SHEET 5 OF 20

DATE		C.D.D.		NAME		SIGNED	DATE	APPROVED	
BENCH MK.		DESIGNED	A. MALDEN	AM*			14/02/20	FOR TENDER	
RL		DES. REVIEW	A. WATT	AW*			14/02/20	DATE	SIGNED
SURVEY		DRAWN	G. ALDERSLEY	GA*			14/02/20	DATE	DM*
SURVEY LB		DRAWN, CHECK	G. DOUGHERTY	GD*			14/02/20	FOR CONSTRUCTION	
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DRAIN, REF.							DATE	SIGNED	
SAP WBS									

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	CLIENTS PEOPLE PERFORMANCE
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CONSULTANT DRAWING SHEET REF.	CONSULTANT FILE REF.
07-C101	51-38096

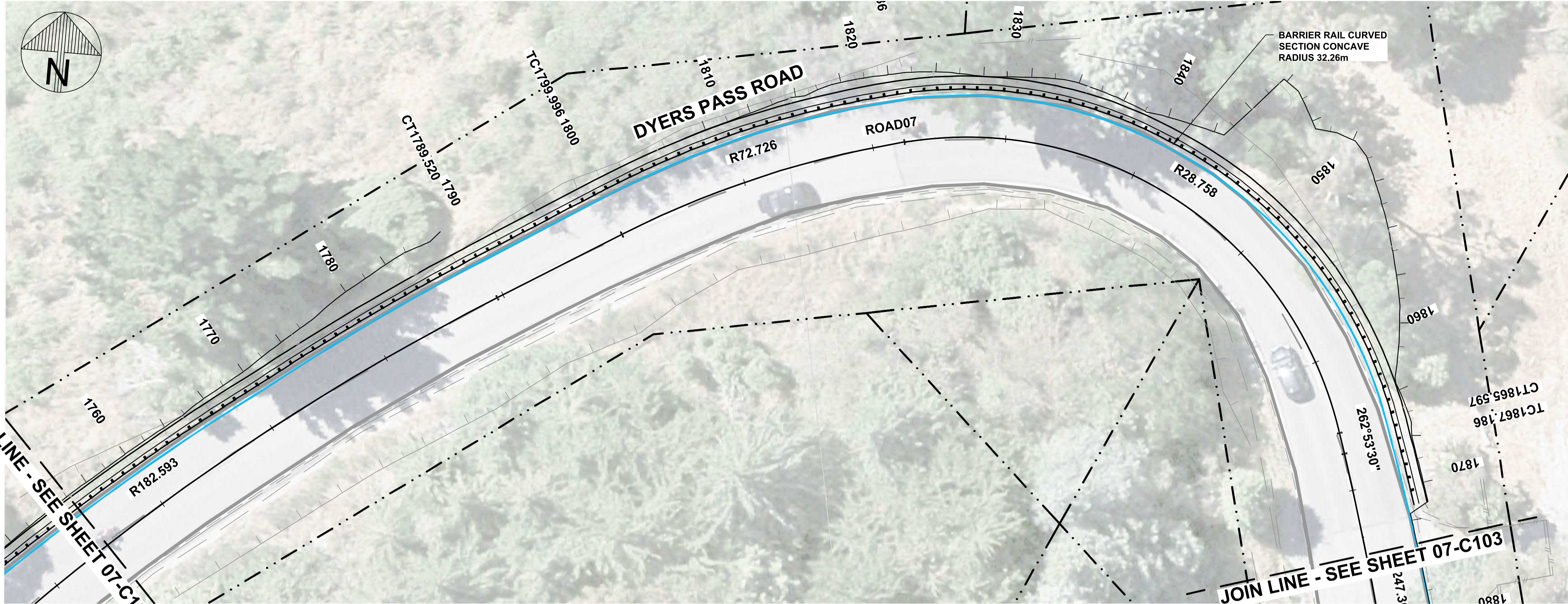
DYERS PASS ROAD SAFETY IMPROVEMENTS SITE 7 - CH1517 TO 2065

DRAWING TITLE

SITE PLAN AND
LONGITUDINAL SECTION
SHEET 2

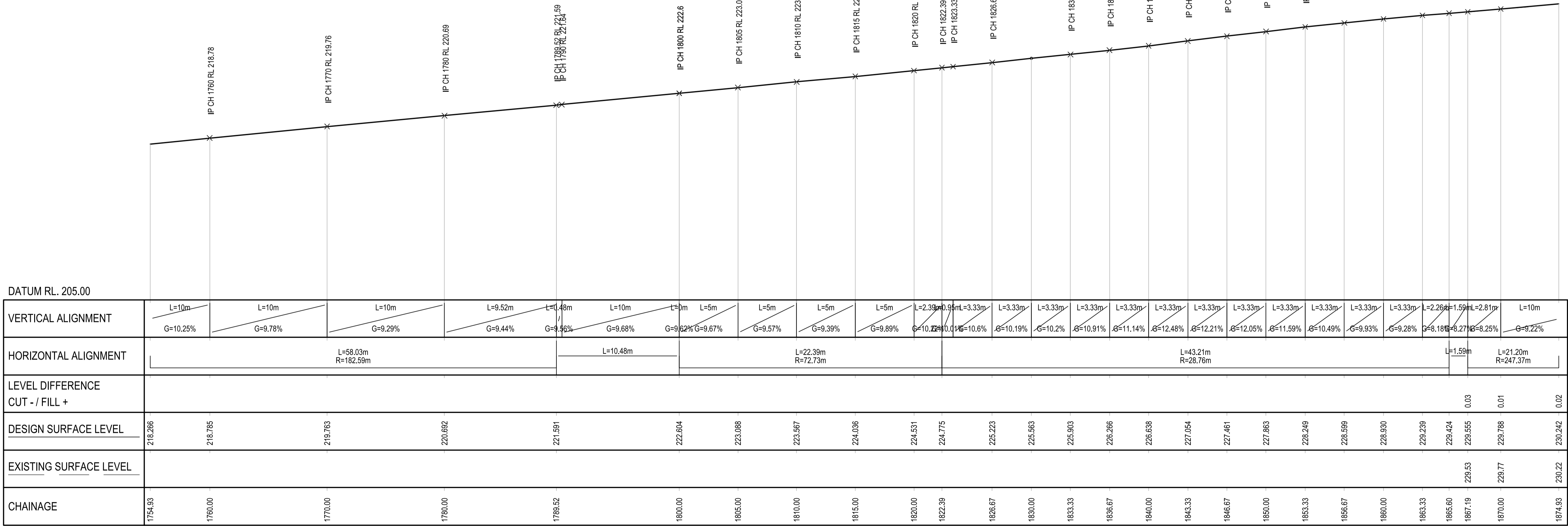


LOCATION PLAN
SCALE: NTS



SITE PLAN
SCALE 1:200

LEGEND	
	NEW 100mm WIDE EDGE LINE
	PROPOSED CENTRE LINE
	PROPOSED OFFSET DISH CHANNEL
	PROPOSED BARRIER WITH CONTINUOUS MOTORCYCLE PROTECTION RAIL
	PROPOSED 1.5m GABION WALL
	PROPOSED 1.0m GABION WALL
	PROPOSED 0.5m GABION WALL
	PROPOSED HILLSIDE CUT
	PROPOSED CULVERT EXTENSION AND OUTLET
	PROPOSED SUMP
LEGEND - EXISTING	
	BOUNDARY
	EDGE LINE
	CENTRELINE
	EDGE OF SEAL
	FENCE
	TOP OF BATTER
	BOTTOM OF BATTER
	WALL TOP
	WALL BOTTOM
	SUMP



LONGITUDINAL SECTION - ROAD07
HORZ 1:200 VERT 1:200

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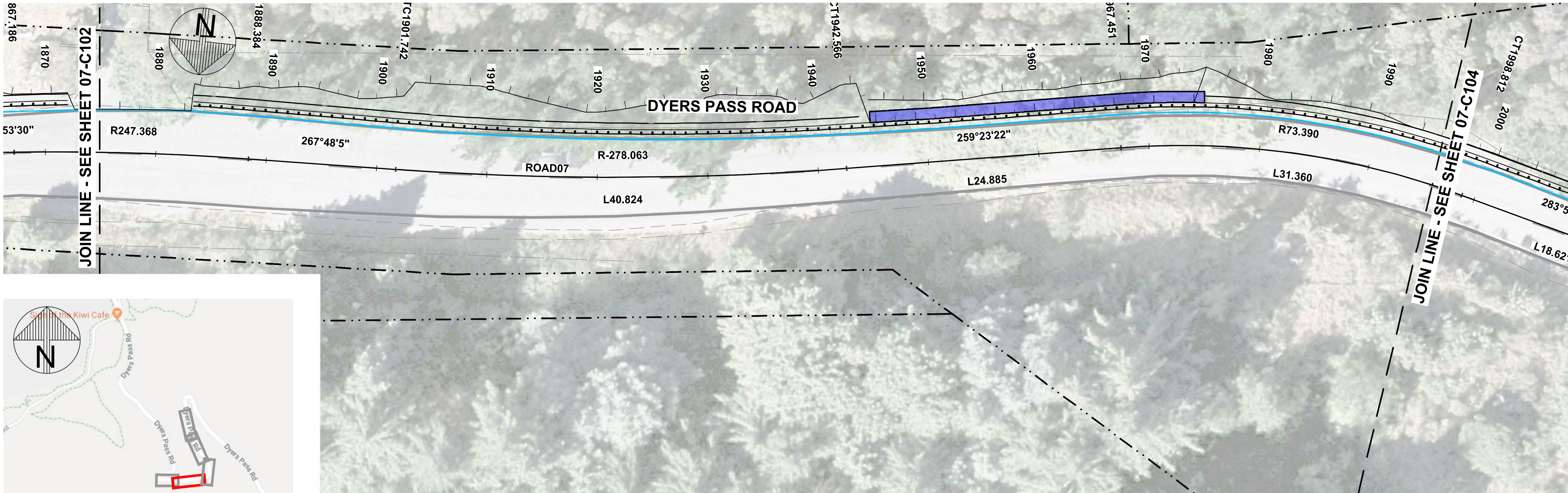
DATUM	C.D.D.	NAME	SIGNED	DATE	APPROVED
BENCH MK.		DESIGNED	A. MALDEN	AM*	14/02/20
RL		DES. REVIEW	A. WATT	AW*	14/02/20
SURVEY		DRAWN	G. ALDERSLEY	GA*	14/02/20
SURVEY LB		DRW. CHECK	G. DOUGHERTY	GD*	14/02/20
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SAP WBS					

CONSULTANT	PROJECT TITLE
	DYERS PASS ROAD SAFETY IMPROVEMENTS SITE 7 - CH1517 TO 2065
Level 3, 138 Victoria Street, Christchurch 8013 New Zealand T 64 3 378 0900 F 64 3 377 8576 E cdmall@ghd.co.nz W www.ghd.co.nz	
CONSULTANT DRAWING SHEET REF. 07-C102	CONSULTANT FILE REF. 51-38096

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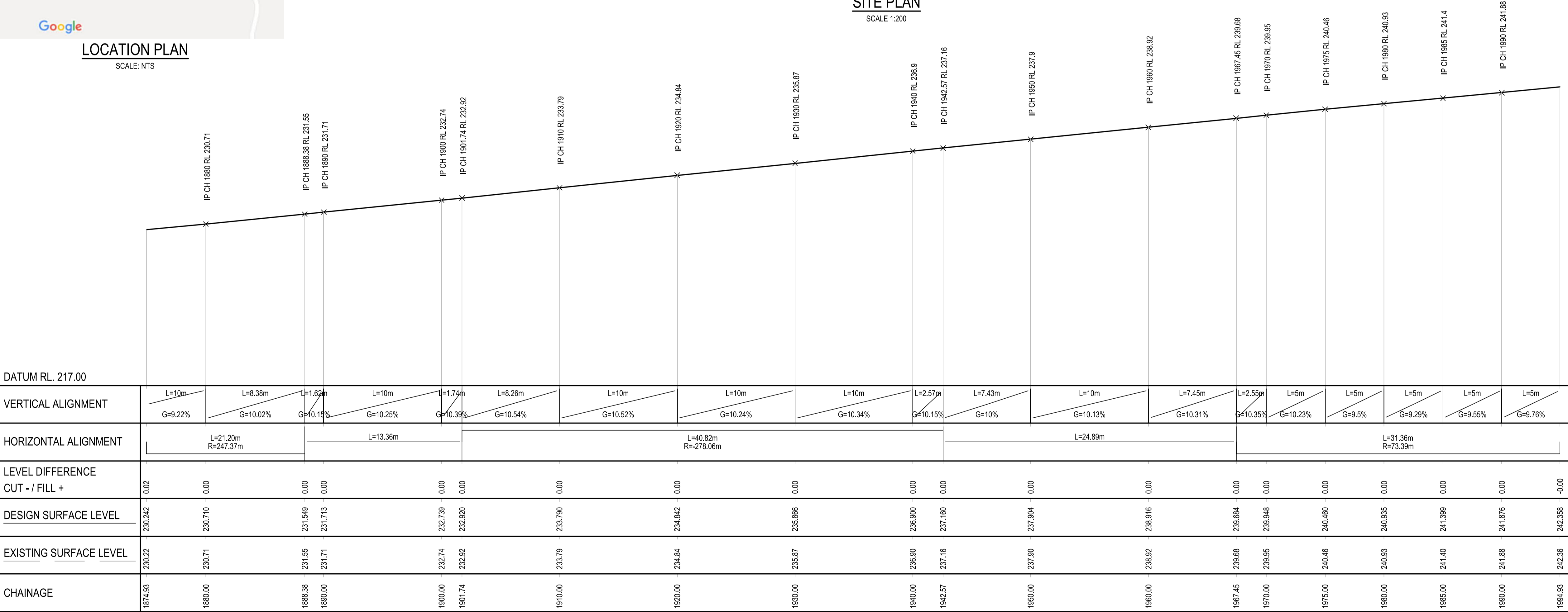
DRAWING TITLE
SITE PLAN AND LONGITUDINAL SECTION SHEET 3

CONTRACT NUMBER	ORIGINAL SHEET SIZE	SCALE
CAD DRAWING FILE REF.	A1	1:200
CPG PROJECT FILE NUMBER	DO NOT SCALE	
		SHEET
		6 OF 20



LEGEND	
	NEW 100mm WIDE EDGE LINE
	PROPOSED CENTRE LINE
	PROPOSED OFFSET DISH CHANNEL
	PROPOSED BARRIER WITH CONTINUOUS MOTORCYCLE PROTECTION RAIL
	PROPOSED 1.5m GABION WALL
	PROPOSED 1.0m GABION WALL
	PROPOSED 0.5m GABION WALL
	PROPOSED HILLSIDE CUT
	PROPOSED CULVERT EXTENSION AND OUTLET
	PROPOSED SUMP
LEGEND - EXISTING	
	BOUNDARY
	EDGE LINE
	CENTRELINE
	EDGE OF SEAL
	FENCE
	TOP OF BATTER
	BOTTOM OF BATTER
	WALL TOP
	WALL BOTTOM
	SUMP

LOCATION PLAN
SCALE: NTS



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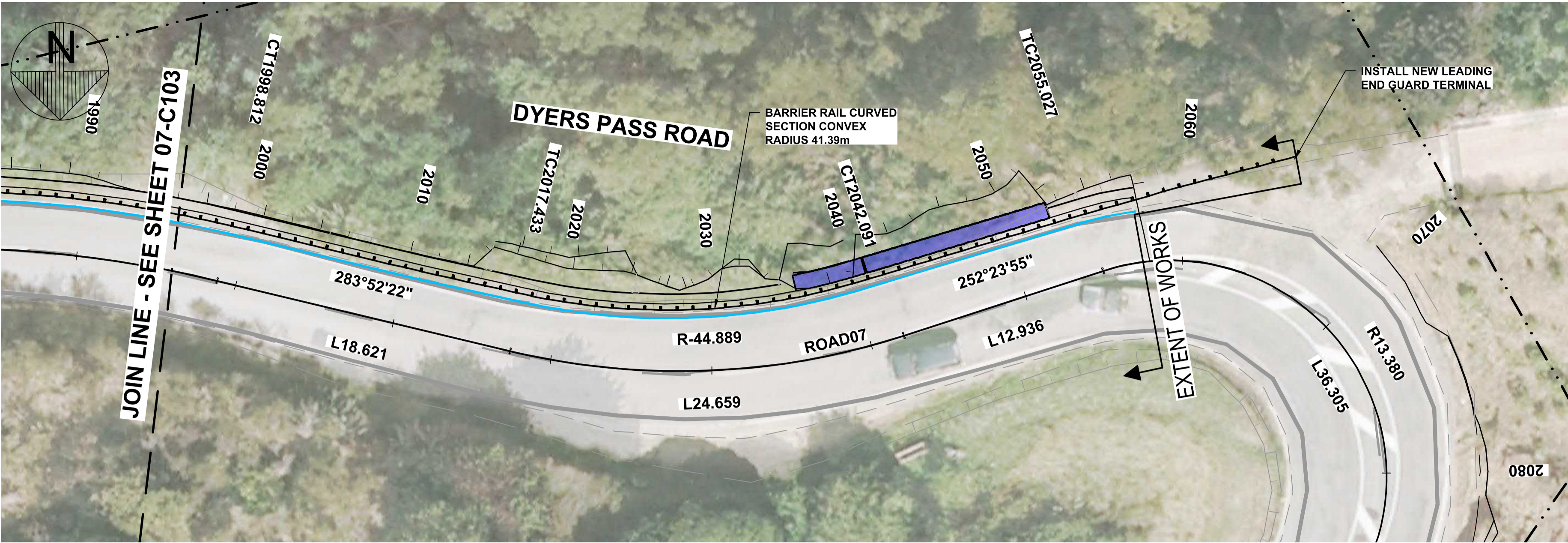
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NOT FOR CONSTRUCTION

LONGITUDINAL SECTION - ROAD07
HORZ 1:200 VERT 1:200

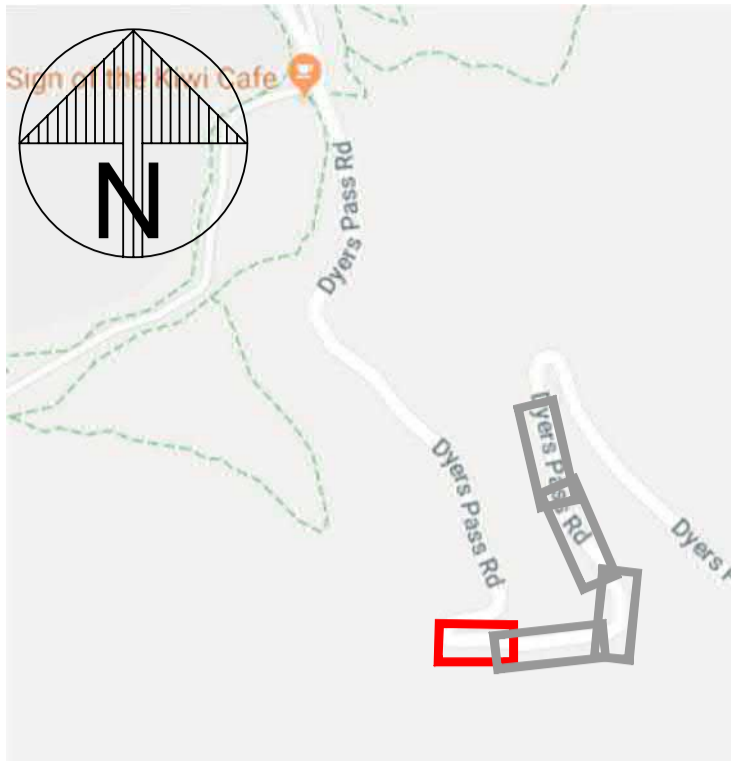


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<div><div>Christchurch City Council</div><div></div></div> <div>TECHNICAL SERVICES AND DESIGN</div>	DATUM	C.D.D.	NAME	SIGNED	DATE	APPROVED		<div>CONSULTANT</div> <div></div> <div>Level 3, 138 Victoria Street, Christchurch 8013 New Zealand T 64 3 378 0900 F 64 3 377 8575 E chcmal@ghd.co.nz W www.ghd.co.nz</div>	PROJECT TITLE <div>DYERS PASS ROAD SAFETY IMPROVEMENTS SITE 7 - CH1517 TO 2065</div>		DRAWING TITLE <div>SITE PLAN AND LONGITUDINAL SECTION SHEET 4</div>		CONTRACT NUMBER <div>ORIGINAL SHEET SIZE A1</div>		SCALES 1:200 DO NOT SCALE				
	BENCH MK.		DESIGNED	A. MALDEN	AM*	14/02/20	FOR TENDER												
	RL		DES. REVIEW	A. WATT	AW*	14/02/20	DATE SIGNED												
	SURVEY		DRAWN	G. ALDERSLEY	GA*	14/02/20	DM*												
	SURVEY LB		DRW. CHECK	G. DOUGHERTY	GD*	14/02/20	FOR CONSTRUCTION												
				© COPYRIGHT CHRISTCHURCH CITY COUNCIL AERIAL PHOTOGRAPHY © COPYRIGHT TERRALINK INTERNATIONAL LIMITED			DATE	SIGNED	CONSULTANT DRAWING SHEET REF. 07-C103	CONSULTANT FILE REF. 51-38096	This Drawing must not be used for Construction unless signed as Approved		GPS PROJECT FILE NUMBER		SHEET 7 OF 20				
	DRAIN. REF.																		
	SAP WBS																		

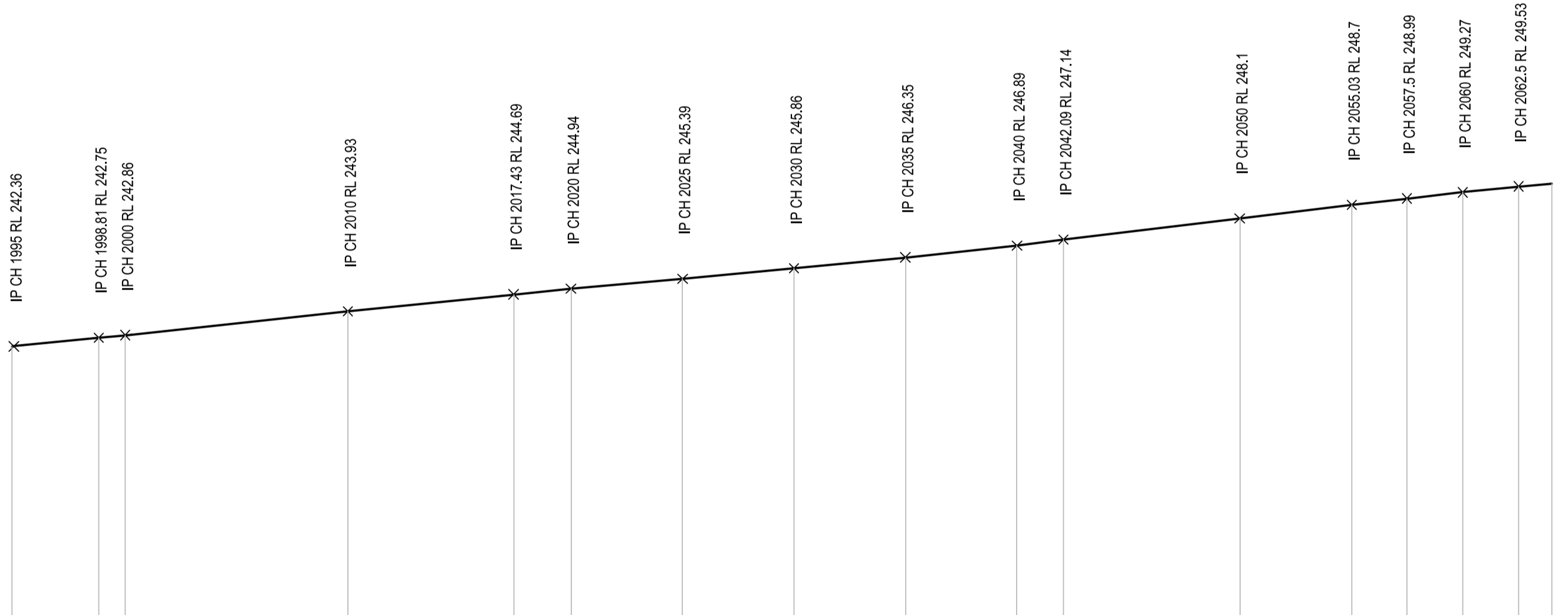


SITE PLAN
SCALE 1:200



LOCATION PLAN
SCALE: NTS

LEGEND	
	NEW 100mm WIDE EDGE LINE
	PROPOSED CENTRE LINE
	PROPOSED OFFSET DISH CHANNEL
	PROPOSED BARRIER WITH CONTINUOUS MOTORCYCLE PROTECTION RAIL
	PROPOSED 1.5m GABION WALL
	PROPOSED 1.0m GABION WALL
	PROPOSED 0.5m GABION WALL
	PROPOSED HILLSIDE CUT
	PROPOSED CULVERT EXTENSION AND OUTLET
	PROPOSED SUMP
LEGEND - EXISTING	
	BOUNDARY
	EDGE LINE
	CENTRELINE
	EDGE OF SEAL
	FENCE
	TOP OF BATTER
	BOTTOM OF BATTER
	WALL TOP
	WALL BOTTOM
	SUMP



DATUM RL. 229.00

VERTICAL ALIGNMENT	L=5m L=3.81m L=11.1m L=10m L=7.43m L=2.57m L=5m L=5m L=5m L=5m L=2.09m L=7.91m L=5.03m L=2.47m L=2.5m L=2.5m L=2.5m
HORIZONTAL ALIGNMENT	L=31.36m R=73.39m L=18.62m L=24.66m R=44.89m L=12.94m L=36.31m R=13.38m
LEVEL DIFFERENCE CUT - / FILL +	-0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 -0.00
DESIGN SURFACE LEVEL	242.338 242.745 242.863 243.928 244.689 244.944 245.393 245.880 246.349 246.885 247.143 248.103 248.702 248.987 249.289 249.532 249.658
EXISTING SURFACE LEVEL	242.36 242.75 242.86 243.93 244.69 244.94 245.39 245.86 246.35 246.89 247.14 248.10 248.70 248.99 249.27 249.53 249.66
CHAINAGE	1994.93 1998.81 2000.00 2010.00 2017.43 2020.00 2025.39 2030.00 2035.00 2040.00 2042.09 2050.00 2055.03 2057.50 2060.00 2062.50 2064.00

LONGITUDINAL SECTION - ROAD07
HORZ 1:200 VERT 1:200

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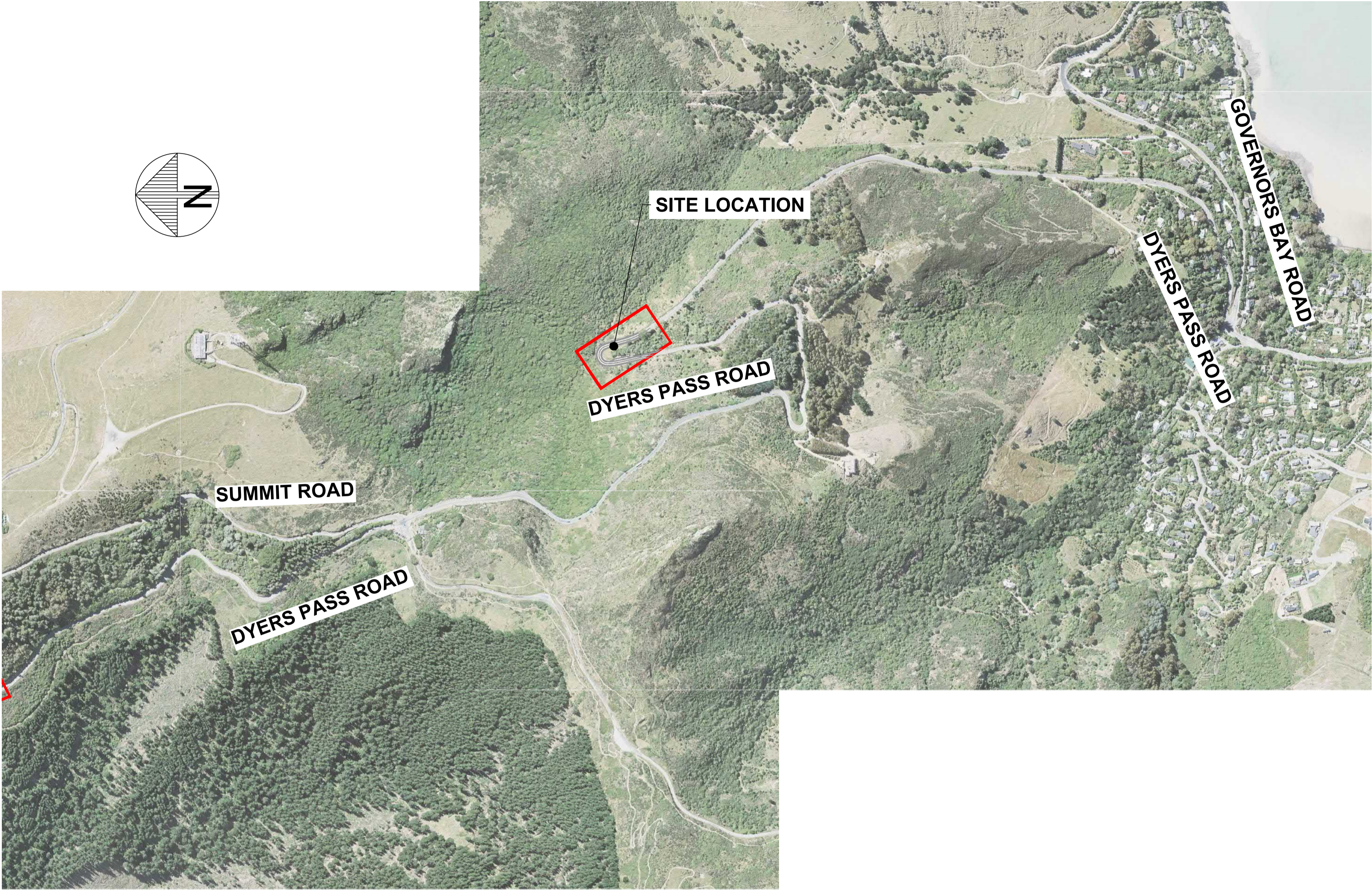
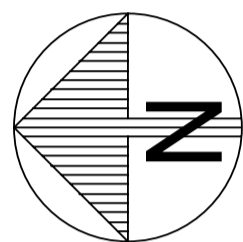
C	FOR TENDER	DM*	14/02/20
B	FOR SAFETY AUDIT	DM*	22/10/19
A	PRELIMINARY		
ISSUE	AMENDMENTS	SIGNED	DATE

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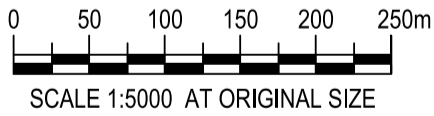
 TECHNICAL SERVICES AND DESIGN	DATUM	C.D.D.	NAME	SIGNED	DATE	APPROVED	CONSULTANT	PROJECT TITLE	DRAWING TITLE	CONTRACT NUMBER	ORIGINAL SHEET SIZE	SCALES
	BENCH MK.		A. MALDEN	AM*	14/02/20	FOR TENDER		Level 3, 138 Victoria Street, Christchurch 8013 New Zealand T 64 3 378 0900 F 64 3 377 8576 E c.homal@ghd.co.nz W www.ghd.co.nz	SITE PLAN AND LONGITUDINAL SECTION	CAD DRAWING FILE REF.	A1	1:200
	RL		A. WATT	AW*	14/02/20	DATE			SHEET 5			DO NOT SCALE
	SURVEY		G. ALDERSLEY	GA*	14/02/20	DM*				CPG PROJECT FILE NUMBER		8 OF 20
	SURVEY LB		G. DOUGHERTY	GD*	14/02/20							
	DRAIN REF.		© COPYRIGHT CHRISTCHURCH CITY COUNCIL AERIAL PHOTOGRAPHY © COPYRIGHT TERRALINK INTERNATIONAL LIMITED			FOR CONSTRUCTION		CONSULTANT DRAWING SHEET REF. 07-C104	CONSULTANT FILE REF. 51-38096			
	SAP WBS					DATE	SIGNED	This Drawing must not be used for Construction unless signed as Approved				

DYERS PASS ROAD - SAFETY IMPROVEMENTS

SITE 8 - CH1370 TO 1517



LOCATION PLAN
SCALE 1:5000



FOR TENDER
NOT FOR CONSTRUCTION

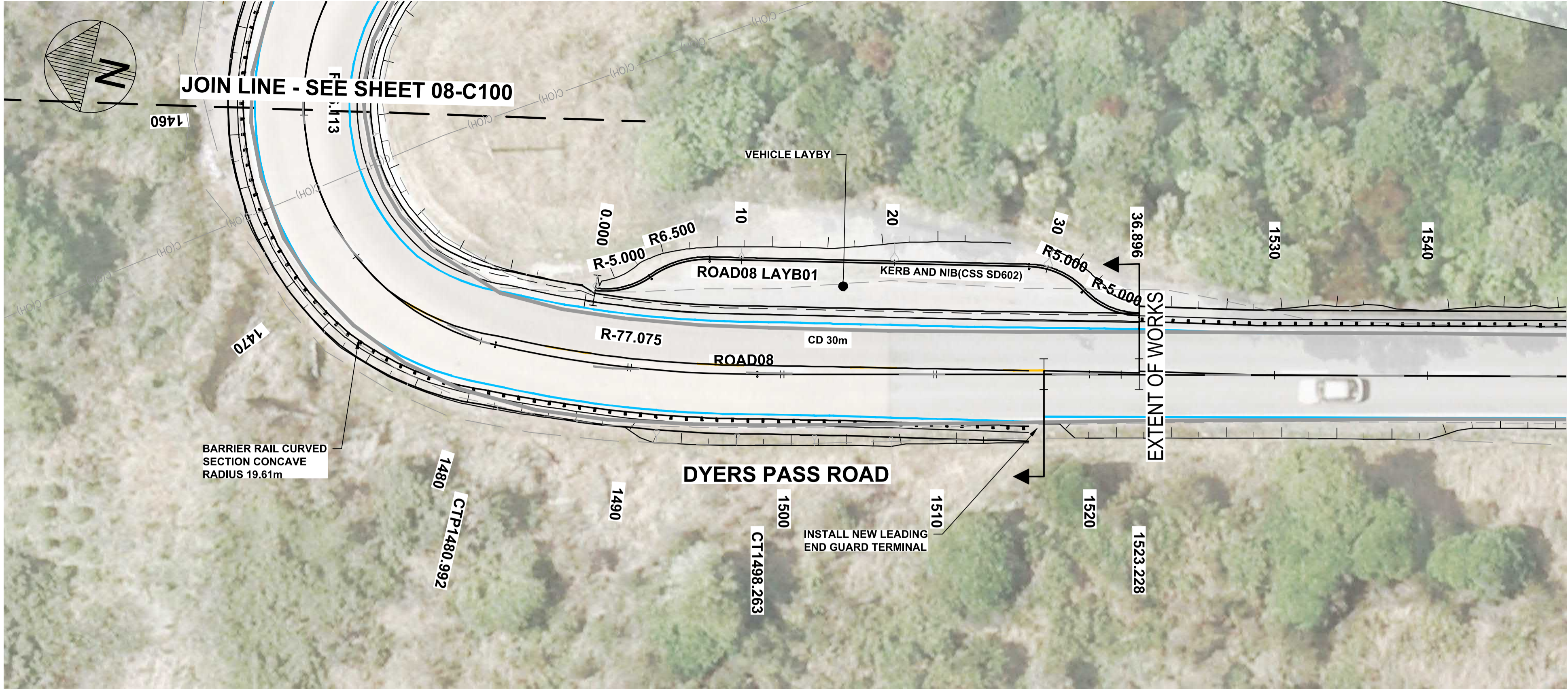
C	FOR TENDER	DM*	14/02/20
B	FOR SAFETY AUDIT	DM*	22/10/19
A	PRELIMINARY		
ISSUE	AMENDMENTS	SIGNED	DATE

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<div><div>Christchurch City Council</div><div></div></div> <div>TECHNICAL SERVICES AND DESIGN</div>	DATUM	C.D.D.	NAME		SIGNED	DATE	APPROVED		<div>CONSULTANT</div> <div></div> <div>Level 3, 138 Victoria Street, Christchurch 8013 New Zealand T 64 3 378 0900 F 64 3 377 8575 E chomail@ghd.co.nz W www.ghd.co.nz</div>	PROJECT TITLE		DRAWING TITLE		CONTRACT NUMBER		ORIGINAL SHEET SIZE		SCALES					
	BENCH MK.		DESIGNED	A. MALDEN	AM*	14/02/20	FOR TENDER													1:5000			
	RL		DES. REVIEW	A. WATT	AW*	14/02/20	DATE															DO NOT SCALE	
	SURVEY		DRAWN	G. ALDERSLEY	GA*	14/02/20	14/02/20																
	SURVEY LB		DRW. CHECK	G. DOUGHERTY	GD*	14/02/20	FOR CONSTRUCTION		DM*		SHEET												
			© COPYRIGHT CHRISTCHURCH CITY COUNCIL AERIAL PHOTOGRAPHY © COPYRIGHT TERRALINK INTERNATIONAL LIMITED				DATE		SIGNED				1 OF 13										
	DRAIN. REF.																						
SAP WBS																							



LOCATION PLAN
SCALE: NTS



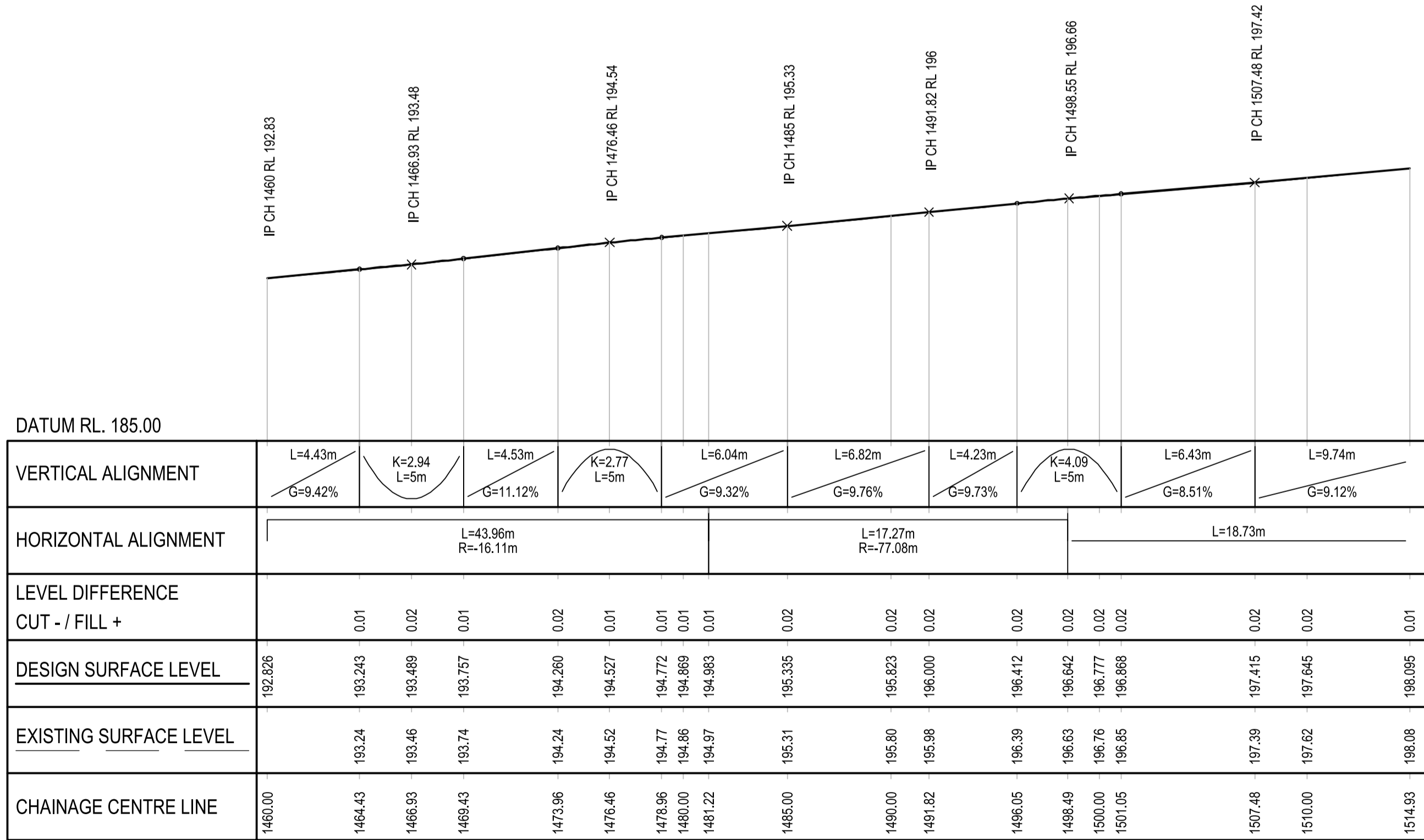
SITE PLAN
SCALE 1:200

LEGEND

- NEW 100mm WIDE EDGE LINE
- PROPOSED CENTRE LINE
- PROPOSED OFFSET DISH CHANNEL
- PROPOSED BARRIER WITH CONTINUOUS MOTORCYCLE PROTECTION RAIL
- PROPOSED 1.5m GABION WALL
- PROPOSED 1.0m GABION WALL
- PROPOSED 0.5m GABION WALL
- PROPOSED HILLSIDE CUT
- PROPOSED CULVERT EXTENSION AND OUTLET
- PROPOSED SUMP

LEGEND - EXISTING

- BOUNDARY
- EDGE LINE
- CENTRELINE
- EDGE OF SEAL
- FENCE
- TOP OF BATTER
- BOTTOM OF BATTER
- WALL TOP
- WALL BOTTOM
- SUMP



LONGITUDINAL SECTION - ROAD08
HORIZ 1:200 VERT 1:200

IMPORTANT SERVICES NOTE:

THE SERVICES SHOWN SHALL BE CONSIDERED INDICATIVE, AND ARE BASED ON RECORDS SUPPLIED BY THE SERVICE AUTHORITIES. PRIVATE CONNECTIONS AND SERVICES ARE NOT SHOWN. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING ALL SERVICES ARE LOCATED AND MARKED BY THE APPROPRIATE SERVICE AUTHORITY, OR THEIR OWN STAFF, PRIOR TO ANY SITWORKS, AND FOR PROTECTING THESE SERVICES FOR THE DURATION OF THE CONTRACT.

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Christchurch City Council

TECHNICAL SERVICES AND DESIGN

DATUM: BENCH MK: RL: SURVEY: SURVEY LB: DRAIN REF: SAP WBS

C.D.D.: DESIGNED: A. MALDEN AM* 14/02/20 DES. REVIEW: A. WATT AM* 14/02/20 DRAWN: G. ALDERSLEY GA* 14/02/20 DRW. CHECK: G. DOUGHERTY GD* 14/02/20

APPROVED FOR TENDER: DATE: 14/02/20 SIGNED: DM* FOR CONSTRUCTION: DATE: 14/02/20 SIGNED: DM*

CONSULTANT: GHD CLIENTS | PEOPLE | PERFORMANCE Level 3, 138 Victoria Street, Christchurch 8013 New Zealand T 64 3 378 0900 F 64 3 377 8576 E chomal@ghd.co.nz W www.ghd.co.nz CONSULTANT DRAWING SHEET REF: 08-C101 CONSULTANT FILE REF: 51-38096

PROJECT TITLE: DYERS PASS ROAD SAFETY IMPROVEMENTS SITE 8 - CH1370 TO 1517

This Drawing must not be used for Construction unless signed as Approved

DRAWING TITLE: SITE PLAN AND LONGITUDINAL SECTION SHEET 2

CONTRACT NUMBER: CAD DRAWING FILE REF: CPG PROJECT FILE NUMBER

ORIGINAL SHEET SIZE: A1

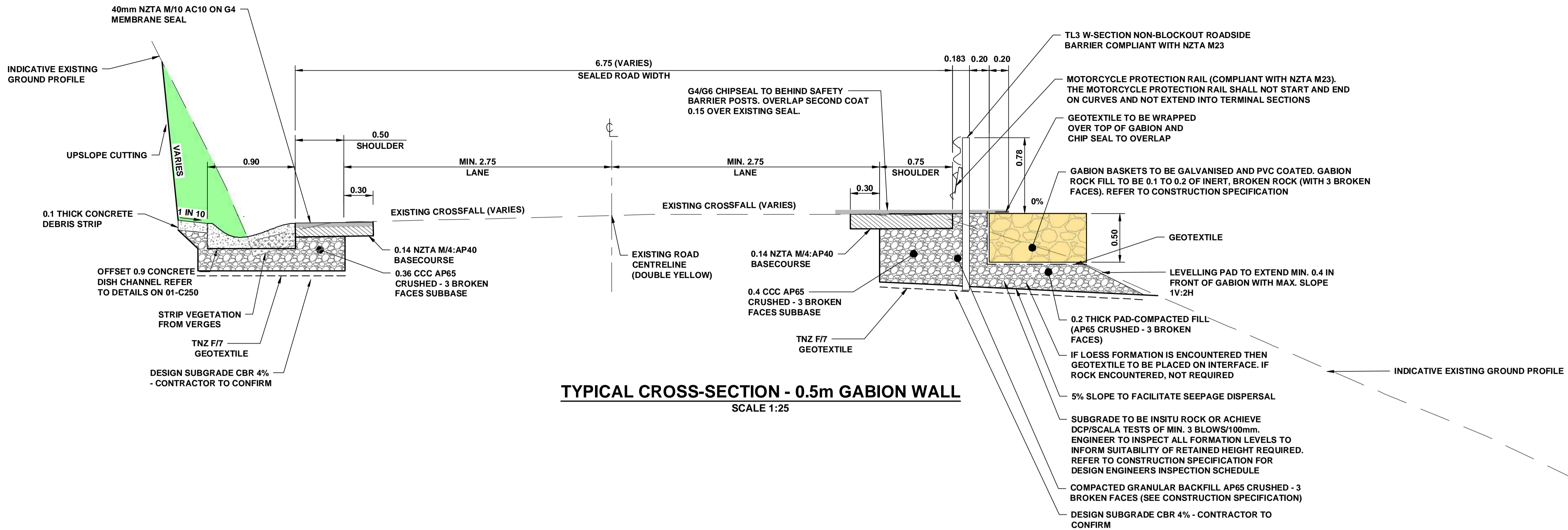
SCALES: 1:200 DO NOT SCALE

SHEET: 5 OF 13

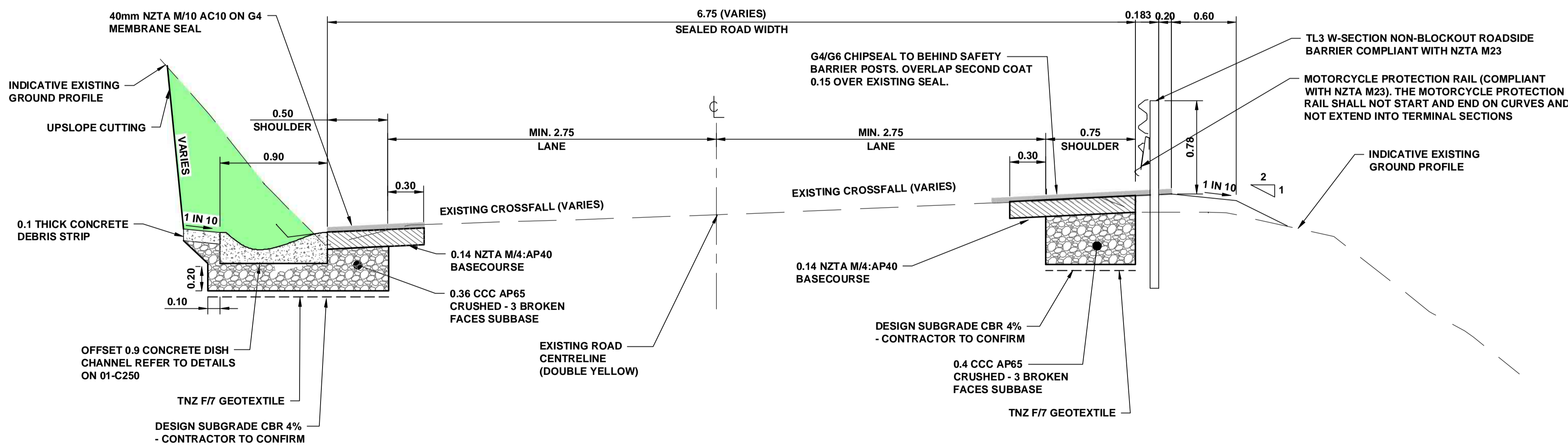
PLOT DATE: 18 February, 2020 - 9:01 AM BY: Gina Aldersley Note: * indicates signatures on original issue of drawing or last revision of drawing CADD\Drawings\51-38096-08-C100_C101.dwg

NOTES:

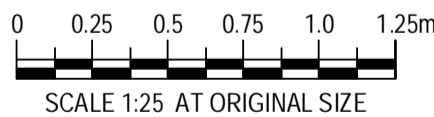
1. REFER TO GABION RETAINING WALL NOTES ON DRG 01-C002.
2. DIMENSIONS IN METRES UNLESS STATED OTHERWISE.
3. WHERE EXISTING ROAD PAVEMENT SURFACE IS ASPHALT, THE NEW PAVEMENT ON THE NORTHBOUND LANE AND SHOULDER (GABION WALL SIDE) SHALL BE ASPHALT, WITH THE SAME DETAIL AS SHOWN ON SOUTHBOUND LANE.



TYPICAL CROSS-SECTION - 0.5m GABION WALL
SCALE 1:25



TYPICAL CROSS-SECTION - NO GABION WALL
SCALE 1:25



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	BENCH MK.		DESIGNED	A. MALDEN	AM*	14/02/20		FOR TENDER	CADD DRAWING FILE REF.		A1	1:25		
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	SURVEY		DRAWN	G. ALDERSLEY	GA*	14/02/20		14/02/20	DM*	CPG PROJECT FILE NUMBER		SHEET		
	SURVEY LB		DRW. CHECK	G. DOUGHERTY	GD*	14/02/20		FOR CONSTRUCTION			6	OF 14		
						DATE		SIGNED						
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	SAP WBS													
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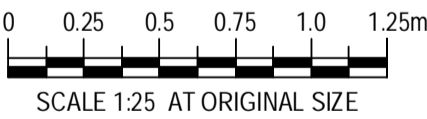
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TYPICAL CROSS-SECTION - 1.5m GABION WALL

SCALE 1:25

TYPICAL CROSS-SECTION - 1.0m GABION WALL

SCALE 1:25



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	BENCH MK.		DESIGNED	A. MALDEN	AM*	14/02/20	FOR TENDER		<div><div>CLIENTS PEOPLE PERFORMANCE</div></div> <div>Level 3, 138 Victoria Street, Christchurch 8013 New Zealand T 64 3 378 0900 F 64 3 377 8575 E chomail@ghd.co.nz W www.ghd.co.nz</div>	DYERS PASS ROAD SAFETY IMPROVEMENTS SITE 1 - CH3244 TO 3420		TYPICAL SECTIONS SHEET 2		A1	1:25 DO NOT SCALE
	RL		DES. REVIEW	A. WATT	AW*	14/02/20	DATE	SIGNED							
	SURVEY		DRAWN	G. ALDERSLEY	GA*	14/02/20	DM*								
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	DRAIN. REF.				DATE	SIGNED	CONSULTANT DRAWING SHEET REF.		CONSULTANT FILE REF.		This Drawing must not be used for Construction unless signed as Approved				
	SAP WBS						01-C201		51-38096						

PLOT DATE: 14 February, 2020 - 4:31 PM

BY: Gina Aldersley

Note: * indicates signatures on original issue of drawing or last revision of drawing

1. DIMENSIONS IN METRES UNLESS STATED OTHERWISE.



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SAFETY BARRIER TRANSITION DETAIL

SCALE 1:25

NOTE:
CONTRACTOR TO CONFIRM
HEIGHT TRANSITION ON SITE
WITH ENGINEER

C	FOR TENDER	DM*	14/02/20
B	FOR SAFETY AUDIT	DM*	22/10/19
A	PRELIMINARY		
ISSUE	AMENDMENTS	SIGNED	DATE

<div><div>Christchurch</div><div>City Council</div></div> <div><div>TECHNICAL SERVICES AND DESIGN</div></div>	DATUM	C.D.D.	DESIGNED	A. MALDEN	AM*	14/02/20	APPROVED		CONSULTANT	<div><div><div></div><div>GHDA</div><div>CLIENTS PEOPLE PERFORMANCE</div></div><div>Level 3, 138 Victoria Street, Christchurch 8013 New Zealand T 64 3 379 1800 F 64 3 377 8076 E chcmail@ghd.co.nz W www.ghd.co.nz</div></div>	PROJECT TITLE	<div>DYERS PASS ROAD</div> <div>SAFETY IMPROVEMENTS</div> <div>SITE 1 - CH3244 TO 3420</div> <div>This Drawing must not be used for Construction unless signed as Approved</div>	DRAWING TITLE	<div>TYPICAL DETAILS</div> <div>SHEET 1</div>	CONTRACT NUMBER	ORIGINAL SHEET SIZE	SCALES																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
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BY: Gina Aldersley

Note: * indicates signatures on original issue of drawing or last revision of drawing

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CAD FILE NO: G:\51\38096\CADD\Drawings\51-38096-01-C250_C251.dwg

Dyers Pass Rd Guardrails – rational and business case.

Scope of work within this funding application <i>e.g. Includes pre-implementation and implementation. If additional funding phases are to be sought, provide a brief overview of these.</i>	This application is for Pre-Implementation and Implementation funding of the following Standard Safety Interventions (SSI): ~3 km of: <ul style="list-style-type: none"> • Roadside safety barrier at high-risk locations • Shoulder widening at high-risk locations 		
Total expected project cost	\$7.25 M (Pre-Imp, Imp 18/19 – 20/21)	Funding source	Safe Network Programme Activity class: Local road improvements work category: WC 324: Road improvements local road component
		FAR %	75.5%
Primary outcome	Reduction in the frequency and severity of crashes		
Other benefits from this activity	Safety improvements through installation of roadside safety barriers and associated supporting retaining walls, 0.5 m & 0.75 m shoulders, cycle friendly drainage dish channels and a minimum of 2 x 2.75 m minimum width lanes.		
Previous approvals / applications; conditions and status	<p><i>What previous phases have been done and/or funded, if any?</i> LCLR was approved for \$750k for the highest priority sites. This application effectively increases the size of the project and cancels that agreement.</p> <p><i>Have conditions previously imposed that affect this funding application been satisfactorily met, and are all teams in agreement?</i> No formal conditions.</p>		
Actions completed <i>(All required prior to application)</i>	<input checked="" type="checkbox"/> TIO Updated (submissions will not be accepted unless actioned)	<input checked="" type="checkbox"/> Funding Available Note: Subject to approval at the CCC Finance & Performance committee on March 5 th and variation of the RLTP by ECan all of which are in progress at the time of this application.	
	<input type="checkbox"/> Docs uploaded to TIO Note: Will be uploaded subsequently	<input type="checkbox"/> SAP Updated	

Overview of the problem and options	
What are the transport safety problems and other problems that require attention?	Winding steep road alignment with narrow roadway (minimal shoulders) with high crash rate and high severity outcomes. The road is also a very popular motorcycling and cycling route. Motorcycle underrun rails on guardrails and cycle safety improvements such cycle friendly road shoulders and drainage channel are required.
Is this SSI included in a RLTP and in 2018-21 NLTP?	Yes
Alignment with Safe Networks Programme <i>For the 2018-21 NLTP, it is expected that most, if not all, SSI activities will be part of the SNP.</i>	<i>Is the location (corridor / intersection) for this activity identified in the Agency's 2018-21 Safe Networks Programme (SNP)?</i> Yes
Programme/project linkages – related activities	<p><i>How does the activity fit within the context of the Transport Agency policies or national business case and key regional transport documents?</i></p> <p>Safety is on top of the list of the four key strategic priorities of the GPS for land transport. It aims to make state highways and local roads are safer for everyone by treating the highest-risk parts of the network. The policy specifically emphasises on investment in primary safe system treatments, that reduce the risk of head-on and run-off road crashes (such as through the installation of median and side barriers). Safety is one of the main four categories in the NLTP 18-21. Under the section SUPPORTING COUNCILS TO CO-INVEST it states "GPS 2018 provides new opportunities for local councils, particularly in the areas of regional improvements, local road improvements, public transport and active modes. This new opportunity presents some challenges in relation to local share affordability. The Transport Agency has worked with local government to develop a range of support options to enable councils to take up new co-investment opportunities in the GPS." It re-emphasises on targeting to the most significant risks through making roads and roadsides more forgiving in the event of human error or mechanical fault, and protecting vulnerable users such as pedestrians, cyclists and motorcyclists.</p> <p>The above shows the alignment of the Dyers Rd Safety Improvement project with the high level national policies and NZTA investment framework. Dyers Pass Rd is an extremely dangerous section of road in Christchurch. Over the 5-year period of 2015-19 there has been 8 DSI crashes on the road causing 6 fatalities and 7 serious injuries. Five of those crashes were likely to be preventable by guardrails, motorcycle under-runs and wider shoulders. The 6-kilometre road section has a 8.3 estimated DSI saving and 5 actual DSI saving over the analysis period offering 43 to 72 DSI savings per \$100m spent which highlights the significant value for money for this project.</p> <p><i>What other projects are in the area that are interdependent or may have effect on this business case that decision makers need to be aware of?</i></p> <p>Not applicable</p>
Is the status quo (do nothing) a viable option?	No

What is Safe System treatment philosophy that applies to this site?	Safer Corridors
Option exploration	<p><i>List the range of options considered, including their implementation costs and DSI reduction</i></p> <p>Study of the route over the past few years suggested several options to address the safety issues on Dyers Pass Rd are:</p> <ul style="list-style-type: none"> - Speed limit reduction; - Painting double yellow no overtaking centrelines; and - Shoulder widening and safety barriers (guardrails). <p>Over the course of the past 5 years the first two options have been implemented on the road by reducing speed to 60kph and installation of painted double yellow no overtaking centrelines, but DSI crashes are still occurring on the road. This is mainly due to the fact that operational speeds were nearly 63kph even with the former 70kph posted speed limits due to the road environment. Also the road width is so narrow that the double yellow no-overtaking lanes can not effectively address the issues with contra-flow proximity safety issues on the road.</p> <p>At this stage installation of road side safety barriers and road widening at high risk locations is the only viable option to address the numerous run off-road type of crashes on this winding road. The estimated and actual crash saving by the proposed intervention (tackling "C" and "D" crash movements) are 8.3 and 5, respectively.</p> <p><i>How were the options assessed and the recommended chosen (MCA, workshop, stakeholder input etc)</i></p> <p>A comprehensive assessment of the road safety issues has been undertaken. The reports and the associated prioritisation processes has already been submitted to the Agency.</p> <p><i>Confirm that improvements with BCR less than 1.0 are part of an existing safety programme. If there are any doubts refer to requirements set out in the IAF.</i></p> <p>BCR has not been calculated for this project. Indicative BCR based on the SSI toolkit: 1.9 to 7.6 for 4.3 ROADSIDE SAFETY BARRIER AT HIGH-RISK LOCATIONS 1.4 to 3.1 for 4.5 SHOULDER WIDENING AT HIGH-RISK LOCATIONS</p>
Choice of preferred option - briefly explain the clear rationale for the selection of the preferred option <i>Note: not required if funding application is for design and engage only.</i>	<p><i>Also include the investment criteria for each SSI from the toolkit with yes/no</i></p> <p><i>Roadside barrier at high risk locations</i></p> <ul style="list-style-type: none"> • AADT is greater than 1000 vehicles per day – yes – 3,500 weekday & 4,700 weekends • Collective risk is medium risk or higher or predictive collective risk medium or greater – yes • Posted speed limit is 60km/h

Detailed information

Length of route (km) to be treated	Total route length requiring treatment is ~6 km. The length of route covered by this application is ~4.6km within which ~3km of new roadside barrier installation and shoulder extension treatments at the high risk locations.
-------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Annual Average Daily Traffic (AADT) at time zero For intersections, provide AADT for major and minor approaches	3,852 (2019)
Pedestrians - Annual Average Daily Count at time zero	Nil
Cyclists - Annual Average Daily Count at time zero	The road is highly popular for recreational cycling. No proper full day counts has been undertaken for cyclists on this road. The most recent survey at the Summit Rd intersection shows 160 cyclist over 5 hours of the survey indicating a rough estimate of 300 to 600 cyclists per day (higher volumes on weekends). Similar to the rest of the city, a relatively fast growth is likely for the number of cyclist on this road.
Heavy Vehicles Volume (%) at time zero	3.6%
ONRC Road classification	Primary Collector
Seal width	Varies 5.3 m to 6.0 m
Shoulder width / sealed or unsealed?	Nil to minimal
Current Posted speed limit	60 km/hr
Current mean operating speed (measured or estimated)	City side 49 km/hr (2019). Harbour side 56 km/hr (2018)
What is the Safe and Appropriate Speed (SAAS) for this location? (Source: MegaMaps)	60 kph
Is the corridor or site included within the Top 10% Speed Management Programme	NO
Is a speed limit review required?	<p>Speed review completed in 2019 and posted speeds reduced to 60kph.</p> <p><i>If yes, how does this activity fit with the speed limit review?</i></p> <p>Crash rate of the road are still high. Operation speeds haven't considerably changed by the reduction in posted speed limits.</p> <p><i>Provide name and email for project manager for speed limit review or upload Speed Limit Review report to TIO</i></p> <div style="background-color: black; width: 150px; height: 20px; margin-top: 5px;"></div>
Proposed speed limit (for preferred option)	60 kph
Fatal + serious injuries per 5- or 10-year period for current speed environment – advise which period	<p>8 DSI crashes over the 5-year period (2015-19)</p> <p>14 DSI crashes over the 10-year period (2010-19)</p>
Types of injury crashes, movement type, severities for	5-year period incl. 5 Fatal and 3 SI

each movement type, and movement codes	The crash movements for the 8 DSI crashes are: LB DF 4 x DJ AB BO
Collective safety risk rating <i>before</i> intervention	High / Actual High (10.3)
Personal safety risk rating before intervention	High (24.4)
Deaths and Serious Injuries (DSI) per annum	$10.3 / 5 = 2.1$