

A unique place. An inspiring future. He Wāhi Tūhāhā. He Āmua Whakaohooho

# Infrastructure Committee 25 August 2022

Report for Agenda Item | Rīpoata moto e Rāraki

**Department:** Property & Infrastructure

Title | Taitara Lakeview Temporary Carpark Parking Provisions

PURPOSE OF THE REPORT | TE TAKE MŌ TE PŪRONGO

1 The purpose of this report is to assist the Committee to determine proposed parking rates, means of collection and maximum times for parking in the temporary Lakeview Carpark.

# EXECUTIVE SUMMARY | WHAKARĀOTOTANGA MATUA

- 1 The Queenstown Lakes District Council Traffic and Parking Bylaw 2018 (the bylaw) regulates parking and the use of roads and public spaces under Council's control.
- 2 The bylaw was adopted by Council at its 13 December 2018 meeting and came into effect on 1 March 2019.
- 3 The temporary carpark proposed in this report will be carried out in line with parameters and rules established within the bylaw.

# **RECOMMENDATION | NGĀ TŪTOHUNGA**

- 4 Approve the parking restrictions for the Lakeview temporary carpark as detailed in this report and summarised below.
  - a Hourly Rate shall be \$3 per hour.
  - b Maximum time shall be 10 hours, i.e., 8:00 am 18:00pm. This being such that people do not leave their vehicles for prolonged periods, nor overnight.
  - c Three carparks as identified within the attached layout will be restricted for use in accordance with Clause 16 b(vii) vehicles used by disabled persons.
  - d Means of collection will be by parking machines located within the carpark site and in line with current provisions outlined under Clause 16 c(ii) of the Queenstown Lakes District Council Traffic and Parking Bylaw 2018.

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5 Additionally, Vehicles which exceed the length of usual carparking slots, i.e., Campervans will not be permitted into the carpark due to height and length restrictions. Entry will be prevented by installation of signage and barriers as permitted under clause 16.1 (b).

Prepared by:

Andrew Timms External Project Manager – Lakeview Infrastructure 15/06/2022

Peter Hansby Property & Infrastructure General Manager 01/08/2022

Reviewed and Authorised by:

# CONTEXT | HOROPAKI

- 6 Due to the ongoing Town Centre Street Upgrades, Queenstown Town Centre Arterial -Stage 1, and Lakeview Subdivision works carparking around Queenstown has been disrupted and displaced. As part of the management of the disruption QLDC has constructed a temporary carpark on the Lakeview site.
- 7 The temporary carpark minimises disruption and serves to maintain parking space numbers throughout Queenstown during the above construction works and in the medium term.
- 8 This paper seeks to establish the parking charges and provisions for the Lakeview temporary carpark.

# ANALYSIS AND ADVICE | TATĀRITANGA ME NGĀ TOHUTOHU

Location	Monday- Sunday (Existing)	Monday – Sunday (Interim)	Monday- Sunday (Final)
Athol Street	9am - 9pm \$2/hr Max 4hrs	9am - 9pm \$4/hr Max 4hrs	9am - 9pm \$4/hr Max 4hrs
Camp Street	9am - 9pm \$2/hr Max 2hrs	9am - 9pm \$4/hr Max 2hrs	9am - 9pm \$4/hr Max 2hrs
Earl Street	9am - 9pm \$2/hr Max 2hrs	9am - 9pm \$4/hr Max 2hrs	9am - 9pm \$4/hr Max 2hrs
Marine Parade	9am - 9pm \$2/hr Max 2hrs	9am - 9pm \$4/hr Max 2hrs	9am - 9pm \$4/hr Max 2hrs
Memorial Street	8am - 9pm \$2/hr Max 1hr	8am - 9pm \$4/hr Max 1hr	8am - 9pm \$4/hr Max 1hr
Stanley Street	8am - 9pm \$2/hr Max 1hr	8am - 9pm \$4/hr Max 1hr	8am - 9pm \$4/hr Max 1hr
Coronation Drive	8am - 9pm Free Max 2hrs	8am - 9pm \$4/hr Max 2hrs	8am - 9pm \$4/hr Max 2hrs
Ballarat A	8am - 6pm \$1 Max 10 hrs \$40.00/Week, 7 Days	8am - 6pm \$2/hr Max 10 hrs \$80.00/Week, 7 Days	8am - 6pm \$2/hr Max 10 hrs
Ballarat B	8am - 6pm, \$1/hr Max 10 hrs \$40.00/Week, 7 Days	8am - 6pm \$2/hr Max 10 hrs \$80.00/Week, 7 Days	8am - 6pm \$2/hr Max 10 hrs
Ballarat C	Permit holders only	Permit holders only	8am - 6pm 2/hr Max 10 hrs
Ballarat Street	8am - 6pm, \$2/hr Max 1hr	8am - 6pm, \$4/hr Max 1hr	8am - 6pm, \$4/hr Max 1hr
Boundary Street	8am - 6pm, \$0.50/hr Max 5 Hrs \$2.50 All Day,Max 10 Hrs \$12.50/Week, 7 DAYS	8am - 6pm \$1/hr Max 10 Hrs \$5.00 All day, Max 10 hrs \$25.00 / Week, 7 Days	8am - 6pm \$1/hr Max 10 Hrs
Recreation Ground	8am - 6pm \$0.50/hr Max 5 Hrs \$2.50 All Day,Max 10 Hrs \$12.50/Week, 7 DAYS	8am - 6pm \$1/hr Max 10 Hrs \$5.00 All day, Max 10 hrs \$25.00 / Week, 7 Days	8am - 6pm \$1/hr Max 10 Hrs
Church Street (Covered)	\$2/hr \$5 Earlybird \$10 Maximum daily rate	\$4/hr \$10 Earlybird \$20 Maximum daily rate	\$4/hr

9 In reviewing the applicable rate for the Lakeview temporary carpark, the existing parking rates identified below have been used as a baseline.

### Figure 1 - Current Parking Provisions

10 The existing Ballarat carpark site was identified as the most similar option due to its proximity to town, provisions of spaces, and due to the intention for the Lakeview temporary carpark to supplement displacement due to the closure of areas of the Ballarat carpark. The current Ballarat A, B, and C carpark parking fees and restrictions have been used as the baseline for the Lakeview temporary carpark.

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- 11 The Ballarat carpark rates were last adjusted in 2017/2018 at the rate of \$2/hr 8:00am 6:00pm (max 10hrs). Noting that these have not been adjusted since that time and based on the current modelling rates used under the Queenstown Transport Business Case, which was endorsed by Council in January 2021, it is recommended that a rate of \$3/hr for the Lakeview site is reasonable.
- 12 In-line with current parking rates across the Queenstown area (included above, Figure 1) and factoring in the location of the carpark, we recommend the following for the Lakeview temporary carpark.
  - a Hourly Rate shall be \$3 per hour.
  - b Maximum time shall be 10 hours, i.e., 8:00 am 18:00pm. This being such that people do not leave their vehicles for prolonged periods.
  - c Three carparks as identified within the attached layout will be restricted for use in accordance with Clause 16 b(vii) vehicles used by disabled persons.
  - d Means of collection will be by parking machines located within the carpark site and in line with current provisions outlined under Clause 16 c(ii) of the Queenstown Lakes District Council Traffic and Parking Bylaw 2018.
- 13 Additionally, vehicles which exceed the length of usual carparking slots, i.e., Campervans will not be permitted into the carpark due to height and length restrictions. Entry will be prevented by installation of signage and barriers as permitted under clause 16.1 (b).

# Options

**Option 1** – Approve the proposed parking rates and restrictions

- 14 Advantages:
- 15 Improves level of service for transport infrastructure.
- 16 Provides revenue stream to support the investment in the temporary carpark and

enforcement and monitoring requirements.

- 17 Enables effective and lawful enforcement to maintain operability and consistent level of service for transport infrastructure.
- 18 Encourages off street parking within Queenstown.
- 19 Disadvantages:
- 20 Requires ongoing enforcement and monitoring.
- 21 May cause conflict with campervan users who are restricted from using the carpark. However, there is appropriate alternative parking available for campervans.

**Option 2** – Not approve the proposed parking rates and restrictions

22 Advantages:

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# 23 Nil

- 24 Disadvantages:
- 25 Carpark is likely to be inefficiently utilised.
- 26 Level of service improvements are unlikely to be fully realised.
- 27 Unable to enforce parking restrictions for users of the carpark.
- 28 Financial benefit for construction of the carpark will not be realised and may impact QLDC's ability to undertake future transport upgrade investments.

# CONSULTATION PROCESS | HATEPE MATAPAKI:

# > SIGNIFICANCE AND ENGAGEMENT | TE WHAKAMAHI I KĀ WHAKAARO HIRAKA

- 29 This matter is of low significance, as determined by reference to the Council's Significance and Engagement policy because amended parking restrictions are based on council officer recommendations and outputs from master planning requirements. The proposed restrictions will directly impact a small number of residents and visitors who utilise parking facilities within Queenstown.
- 30 The proposed restrictions are aligned with information currently being utilised in QLDC's transport business cases and modelling exercises, based on recommendations from council officers.

# > MĀORI CONSULTATION | IWI RŪNANGA

31 The Council has not sought the specific views of iwi for these parking restrictions.

# RISK AND MITIGATIONS | NGĀ RARU TŪPONO ME NGĀ WHAKAMAURUTANGA

- 32 This matter relates to the Community & Wellbeing risk category. It is associated with RISK00012 Core Infrastructure is Insufficient Poor Infrastructure Planning, RISK00013 Core Infrastructure is Insufficient Delays in Capital Delivery Programme, RISK00056 Ineffective Provision for the Future Planning and Development Needs of the District within the QLDC Risk Register. These risks have been assessed as having a moderate inherent risk rating.
- 33 The approval of the recommended option will support the Council by allowing us to provide services immediately to mitigate and implement additional controls for the identified risks.

# FINANCIAL IMPLICATIONS | NGĀ RITENGA Ā-PŪTEA

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- 34 The costs associated with implementing the parking restrictions will be met from current budgets in the current 2021/2022 Annual plan Queenstown Parking Improvements.
- 35 An ongoing monitoring and enforcement cost will be required during the operation of the carpark.

# COUNCIL EFFECTS AND VIEWS | NGĀ WHAKAAWEAWE ME NGĀ TIROHANUNIHERA

36 Alignment with and consideration of the principles of the Vision Beyond 2050; in particular 'Our environment and services promote and support health, activity and wellbeing for all'

# LEGAL CONSIDERATIONS AND STATUTORY RESPONSIBILITIES | KA TURE WHAIWHAKAARO ME KĀ TAKOHAKA WAETURE

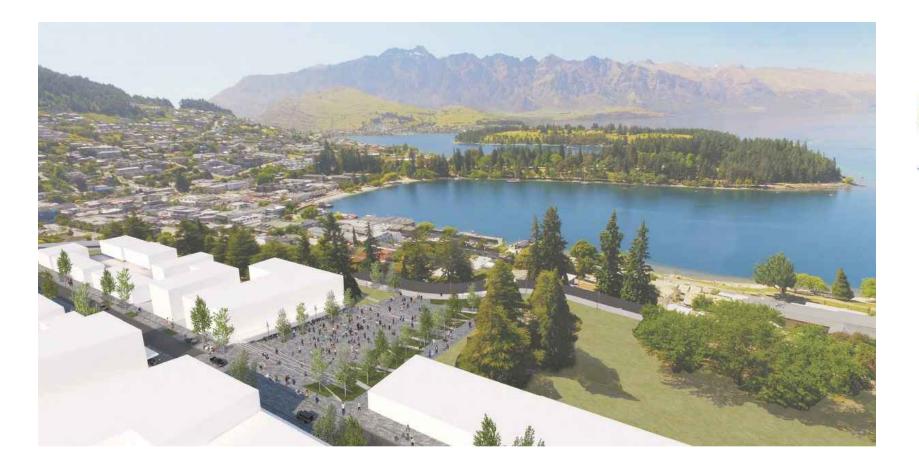
37 No legal advice has yet been sought during the development of the parking restrictions, however the proposed restrictions are to be implemented in accordance with the Queenstown Lakes District Council Traffic and Parking Bylaw 2018.

# LOCAL GOVERNMENT ACT 2002 PURPOSE PROVISIONS | TE WHAKATURETURE 2002 0 TE KĀWANATAKA Ā-KĀIKA

- 38 The recommended option:
- 39 Will help meet the current and future needs of communities for good-quality local infrastructure, local public services, and performance of regulatory functions in a way that is most cost-effective for households and businesses by ensuring efficient and effective administration and enforcement activities.
- 40 Can be implemented through current funding under the Ten Year Plan and Annual Plan;
- 41 Is consistent with the Council's plans and policies; and
- 42 In isolation, as part of the Parking Strategy would not alter significantly the intended level of service provision for any significant activity undertaken by or on behalf of the Council, or transfer the ownership or control of a strategic asset to or from the Council.

# ATTACHMENTS | NGĀ TĀPIRIHANGA

А	20220525 Lakeview Temporary Car Park Drawings_2





LAKEVIEW SUBDIVISION INFRASTRUCTURE **TEMPORARY CAR PARK** FOR CONSTRUCTION

	DRAWING LIST
DRAWING NUMBER	DRAWING TITLE
3334066-CA-1400	COVER SHEET AND DRAWING INDEX
3334066-CA-1401	GENERAL ARRANGEMENT
3334066-CA-1402	EXISTING AND PROPOSED SERVICES
3334066-CA-1403	GRADING PLAN
3334066-CA-1404	EARTHWORKS PLAN
3334066-CA-1405	PAVEMENT PLAN
3334066-CA-1406	LIGHTING PLAN SHEET 1 OF 2
3334066-CA-1407	LIGHTING PLAN SHEET 2 OF 2
3334066-CA-1408	LIGHTING PLAN - ISOLUX LAYOUT
3334066-CA-1409	ROAD MARKING AND SIGNAGE PLAN
3334066-CA-1410	TRACKING PLAN
3334066-CA-1411	GENERAL DETAILS
3334066-CA-1412	PAVEMENT DETAILS
3334066-CA-1413	LIGHTING DETAILS
3334066-CA-1414	STORMWATER DETAILS
3334066-CA-1415	STRUCTURAL DETAILS
3334066-CA-1420	TYPICAL CROSS SECTIONS CH10 & CH50
3334066-CA-1421	TYPICAL CROSS SECTIONS CH90 & CH130
3334066-CA-1431	DETAILED CROSS SECTION - SHEET 1 OF 9
3334066-CA-1432	DETAILED CROSS SECTION - SHEET 2 OF 9
3334066-CA-1433	DETAILED CROSS SECTION - SHEET 3 OF 9
3334066-CA-1434	DETAILED CROSS SECTION - SHEET 4 OF 9

DRAWING LIST		
DRAWING NUMBER	DRAWING TITLE	
3334066-CA-1435	DETAILED CROSS SECTION - SHEET 5 OF 9	
3334066-CA-1436	DETAILED CROSS SECTION - SHEET 6 OF 9	
3334066-CA-1437	DETAILED CROSS SECTION - SHEET 7 OF 9	
3334066-CA-1438	DETAILED CROSS SECTION - SHEET 8 OF 9	
3334066-CA-1439	DETAILED CROSS SECTION - SHEET 9 OF 9	

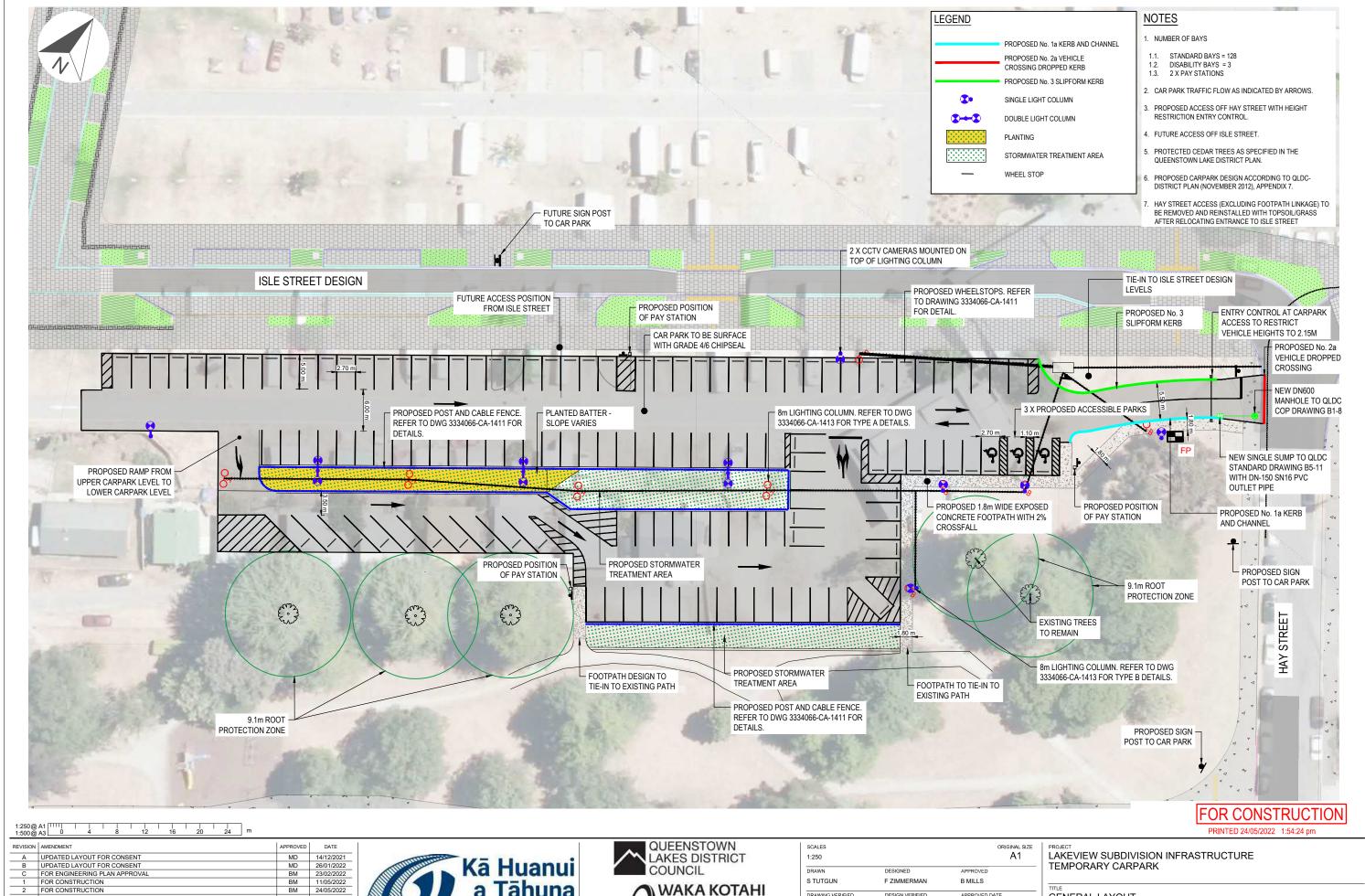




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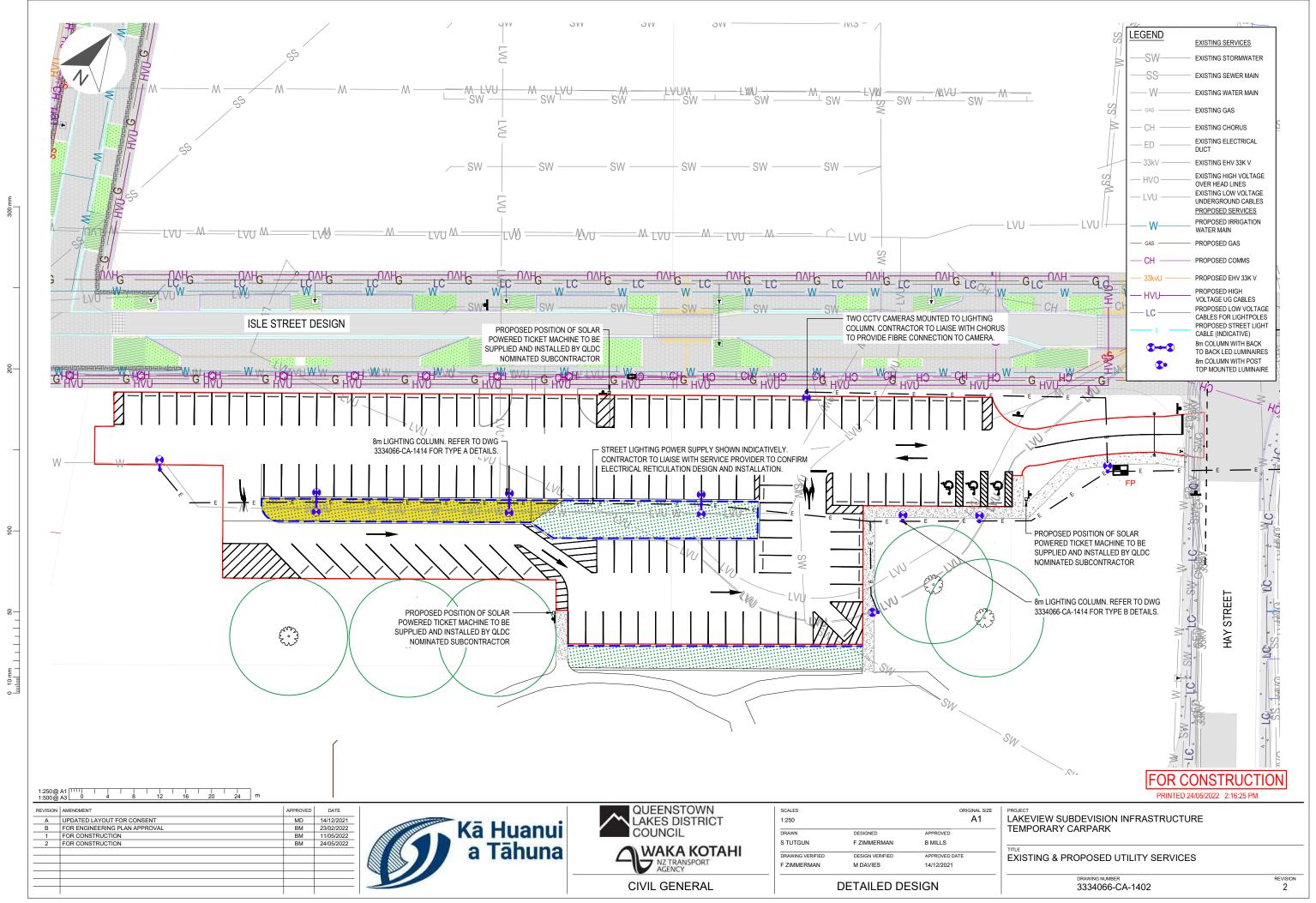
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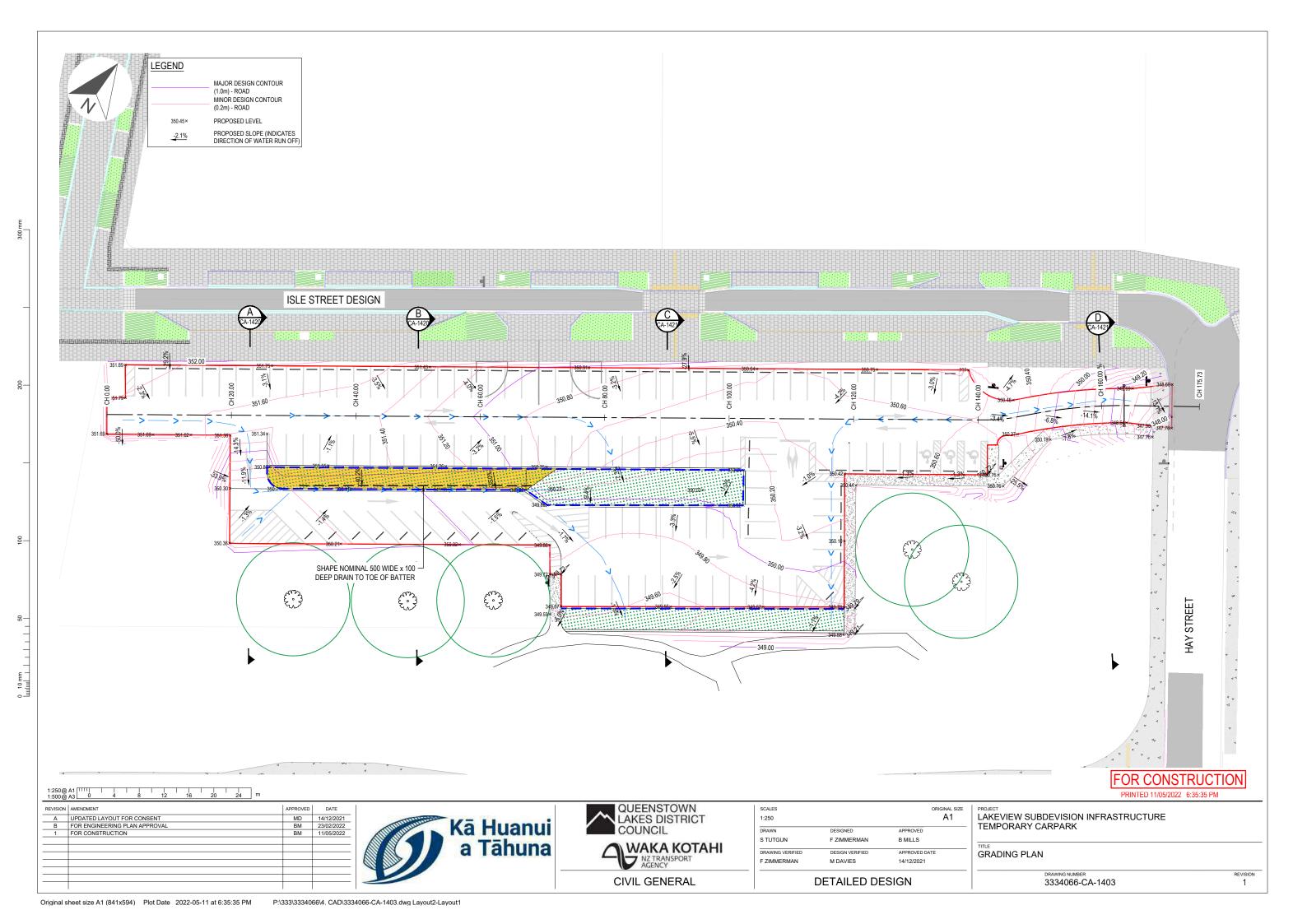
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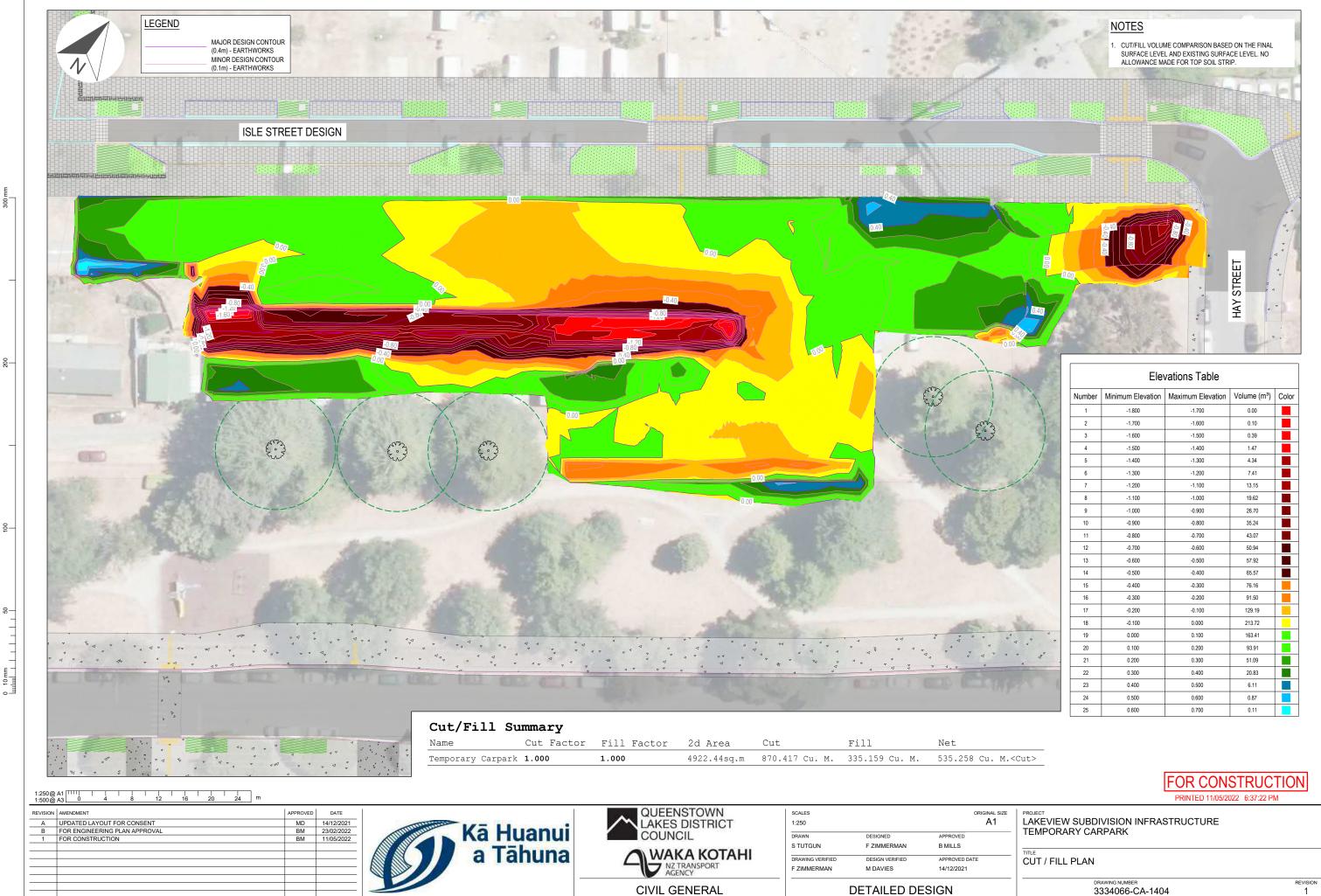
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ENERAL LAYOUT



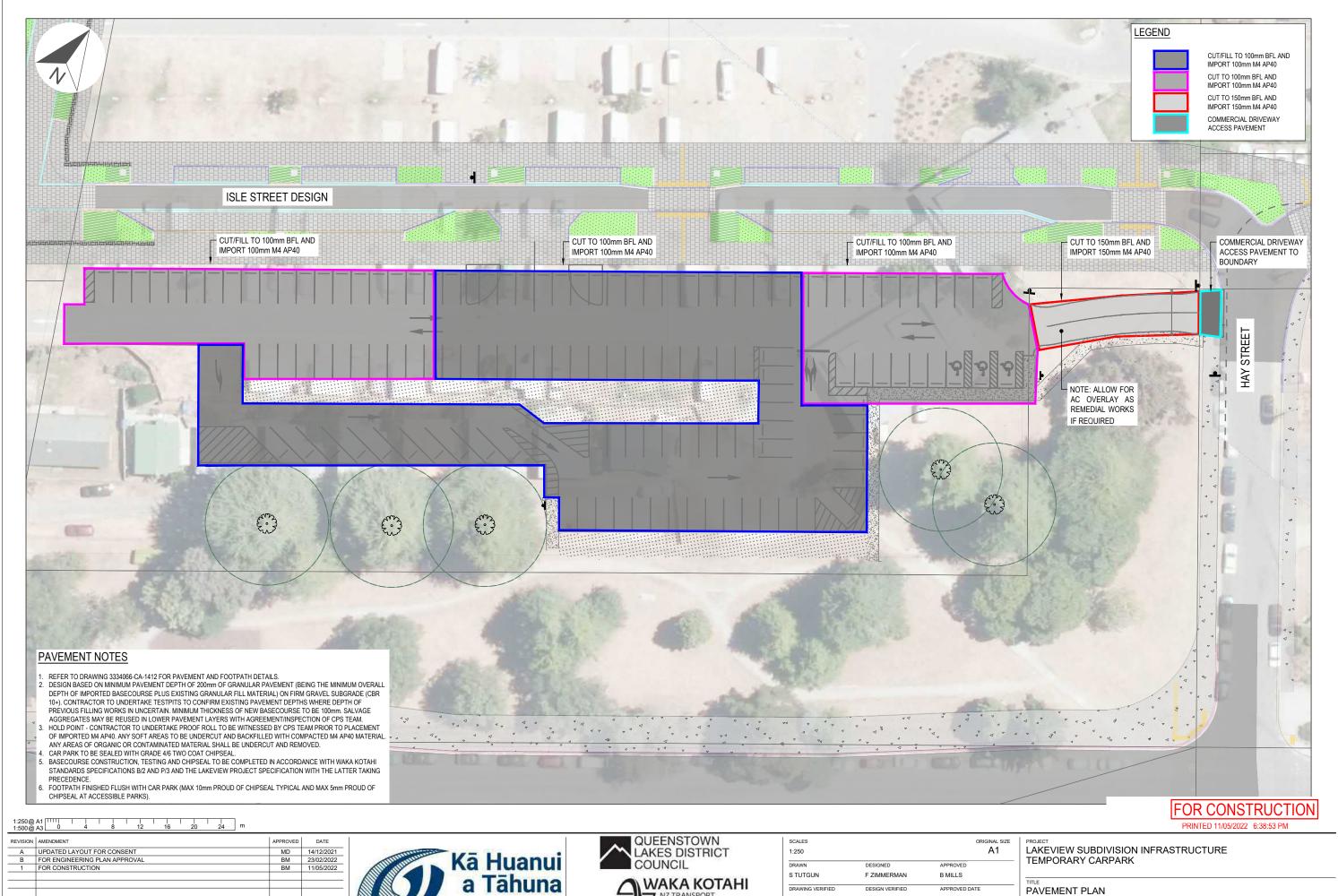




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Number	Minimum Elevation	Maximum Elevation	Volume (m <sup>3</sup> )	Color
1	-1.800	-1.700	0.00	
2	-1.700	-1.600	0.10	
3	-1.600	-1.500	0.39	
4	-1.500	-1.400	1.47	
5	-1.400	-1.300	4.34	
6	-1.300	-1.200	7.41	
7	-1.200	-1.100	13.15	
8	-1.100	-1.000	19.62	
9	-1.000	-0.900	26.70	
10	-0.900	-0.800	35.24	
11	-0.800	-0.700	43.07	
12	-0.700	-0.600	50.94	
13	-0.600	-0.500	57.92	
14	-0.500	-0.400	65.57	
15	-0.400	-0.300	76.16	
16	-0.300	-0.200	91.50	
17	-0.200	-0.100	129.19	
18	-0.100	0.000	213.72	
19	0.000	0.100	163.41	
20	0.100	0.200	93.91	
21	0.200	0.300	51.09	
22	0.300	0.400	20.83	
23	0.400	0.500	6.11	
24	0.500	0.600	0.87	
25	0.600	0.700	0.11	

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NZ TRANSPORT

**CIVIL GENERAL** 

DRAWING VERIFIED

F ZIMMERMAN

DESIGN VERIFIED

DETAILED DESIGN

M DAVIES

APPROVED DATE

14/12/2021

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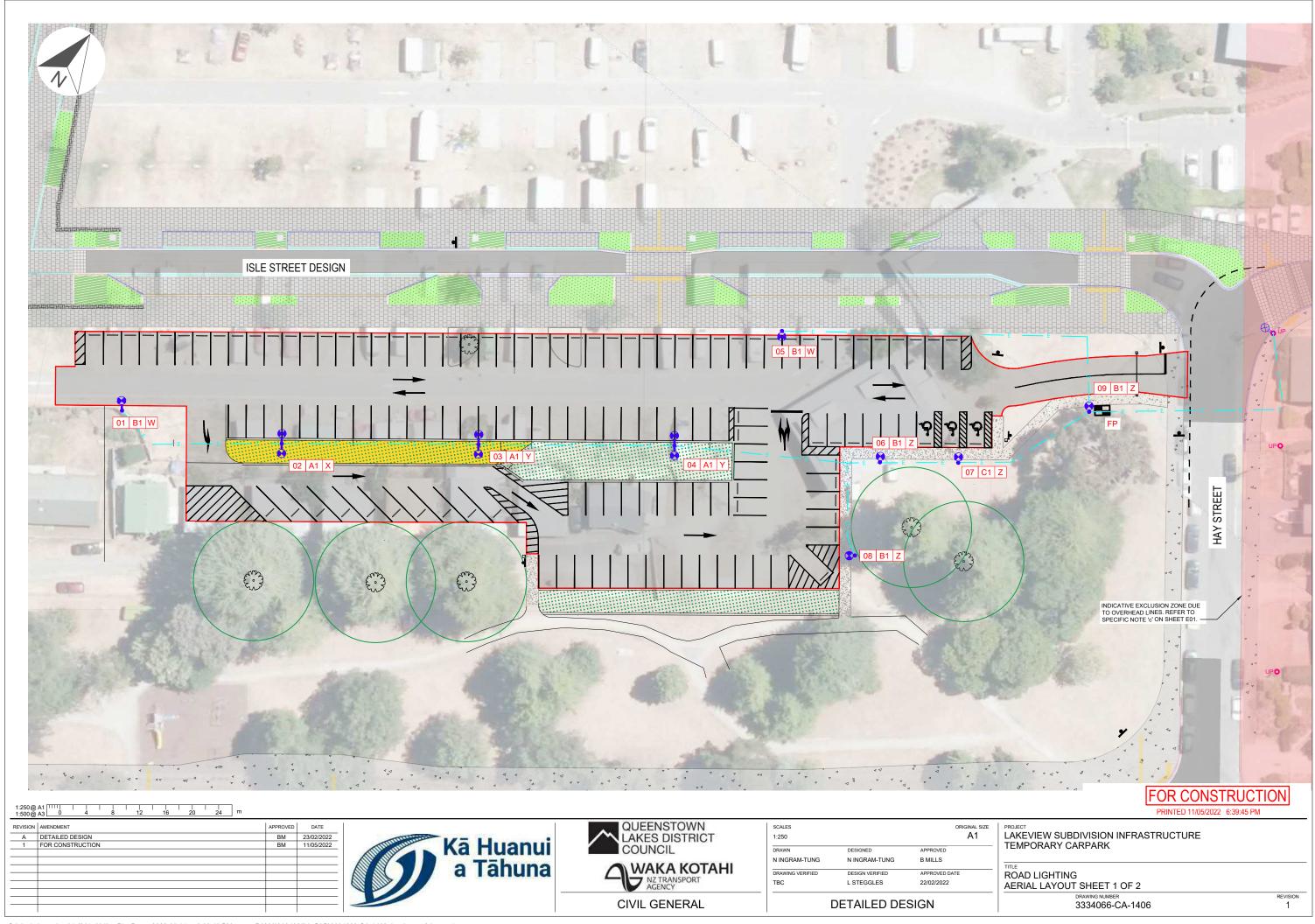
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REVISION 1

# PAVEMENT PLAN



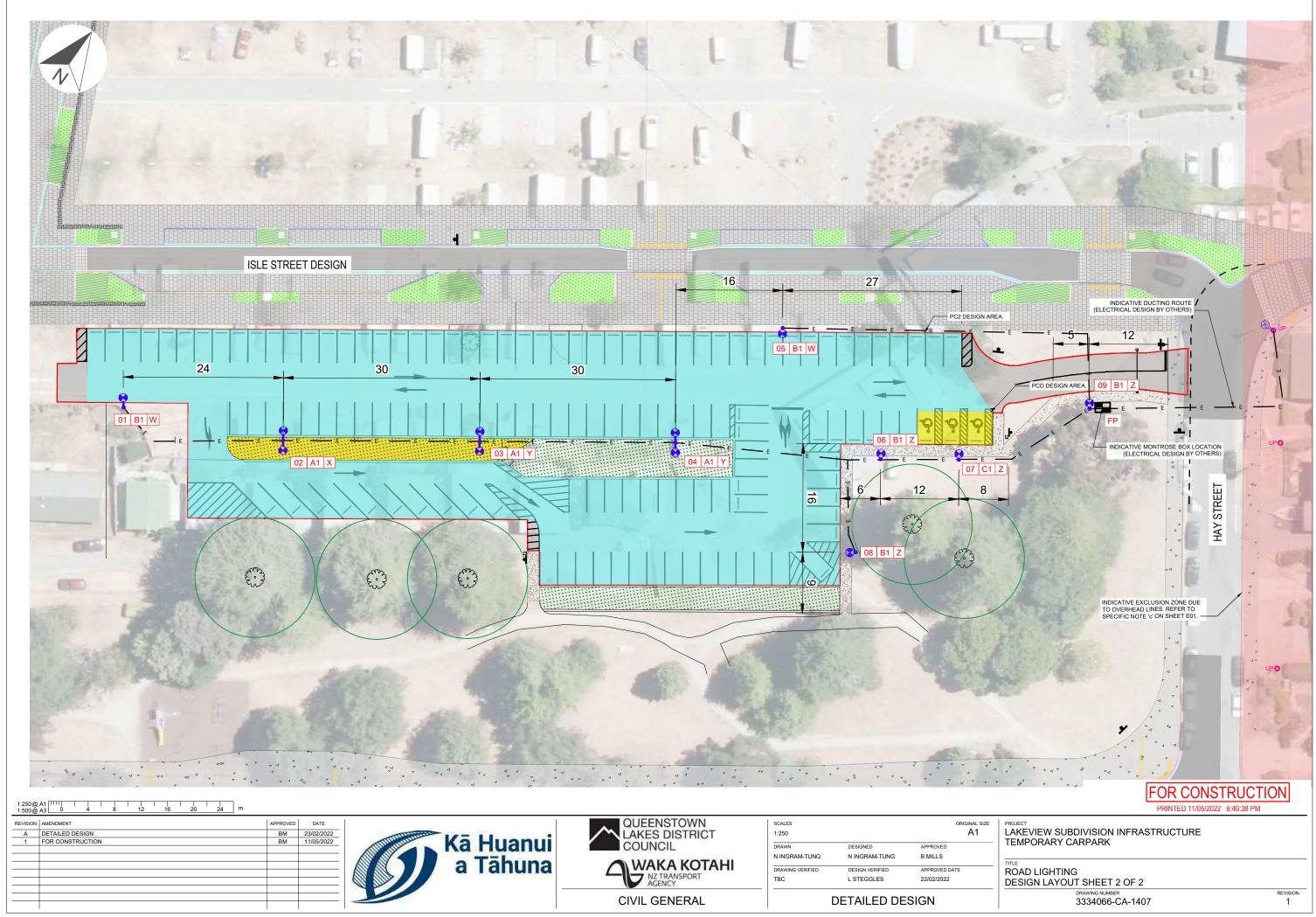
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1	FOR CONSTRUCTION	BM	11/05/2022



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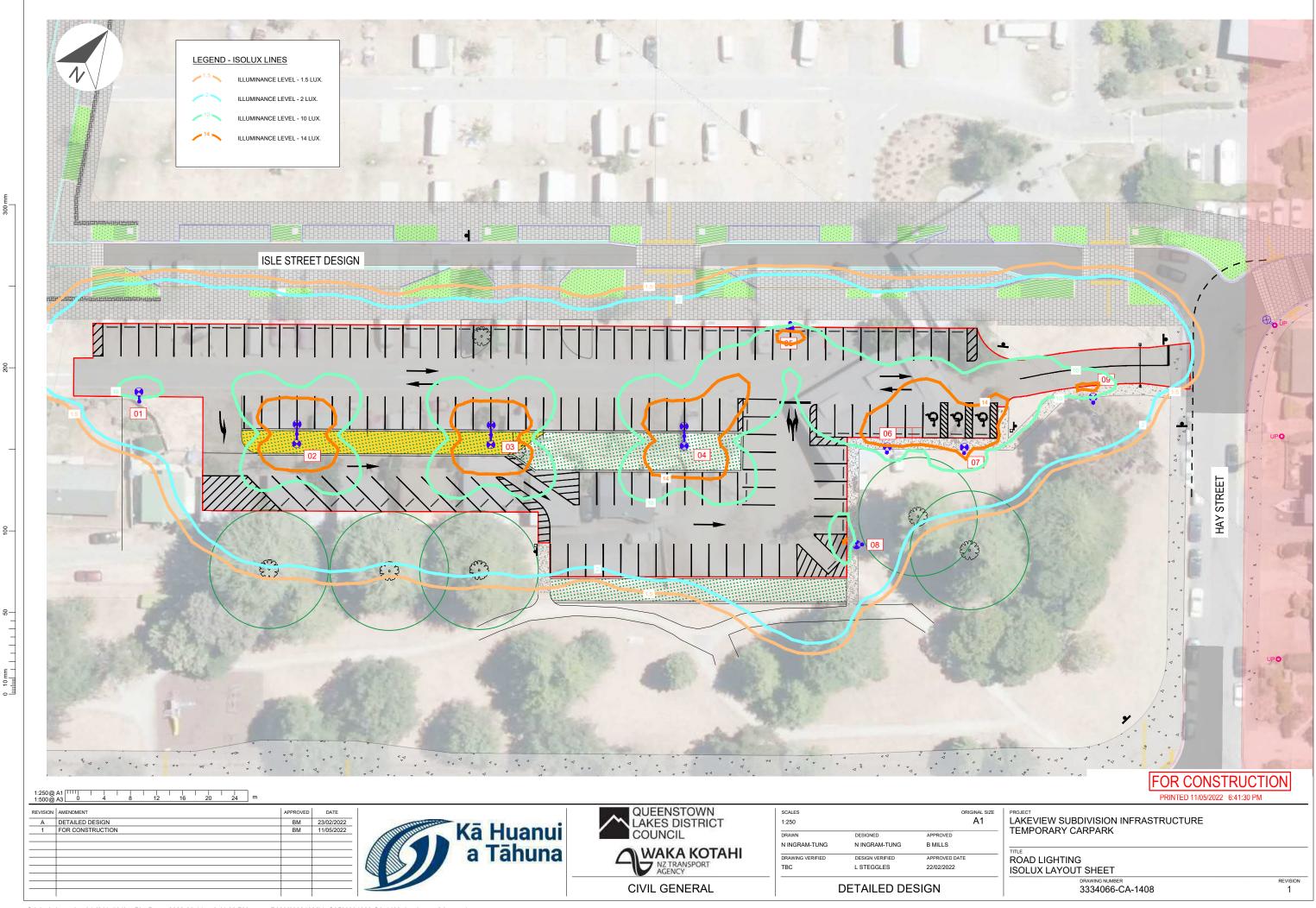
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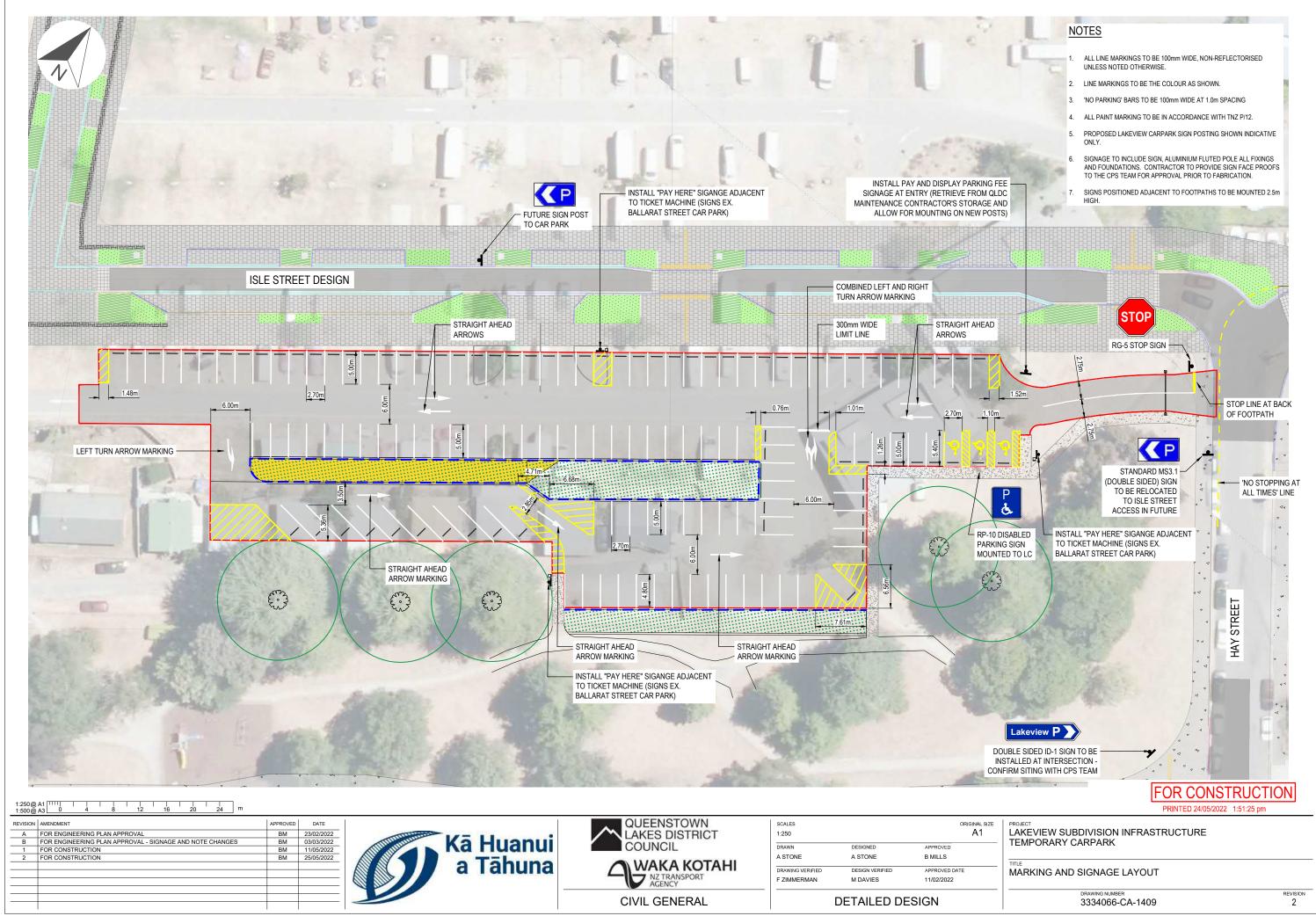
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1	FOR CONSTRUCTION	BM	11/05/202



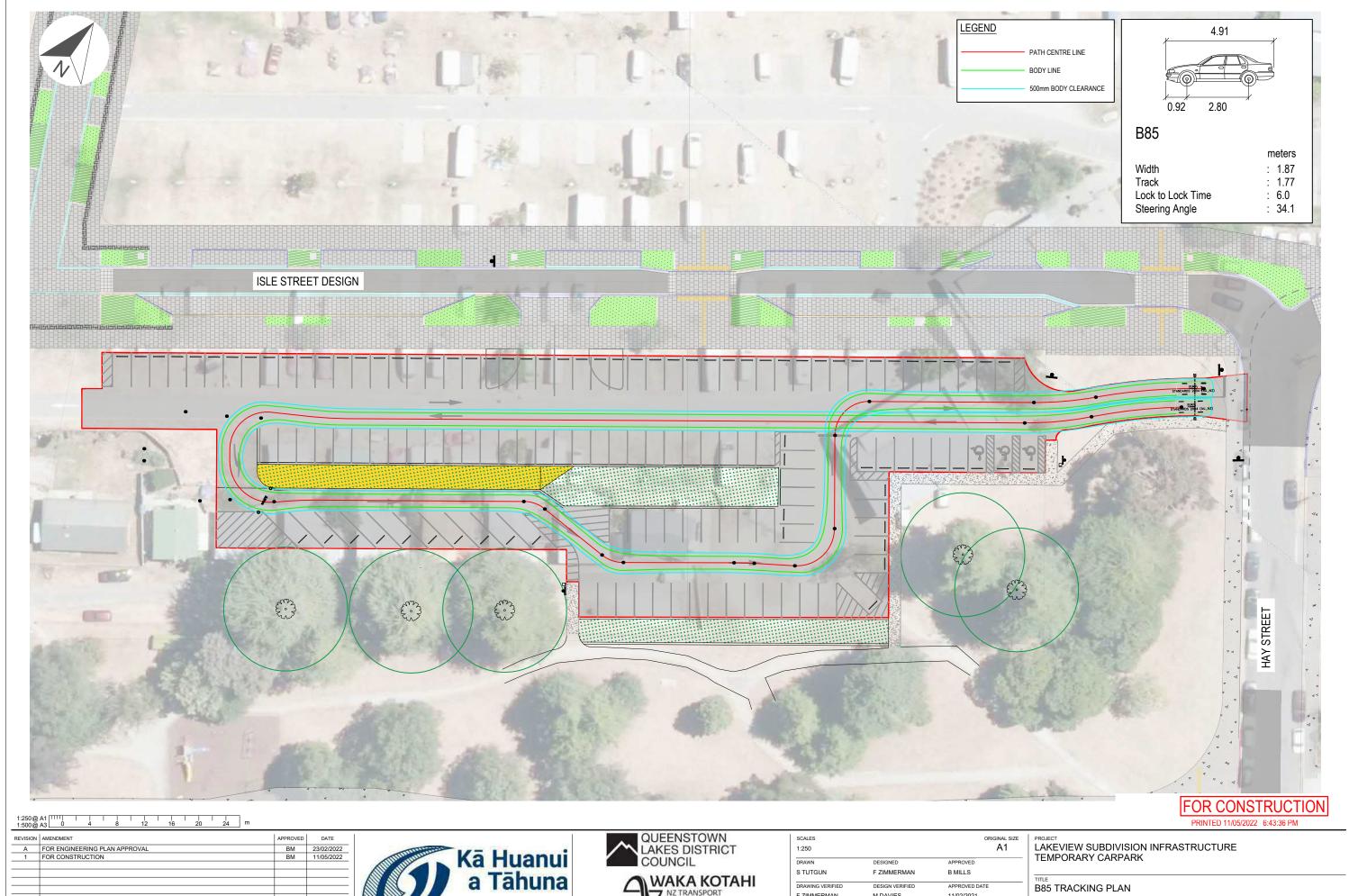
QUEENSTOWN LAKES DISTRICT COUNCIL
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1 FOR CONSTRUCTION BM 11/05/202	A FOR E	BM 23/02/2022
	B FOR E	CHANGES BM 03/03/2022
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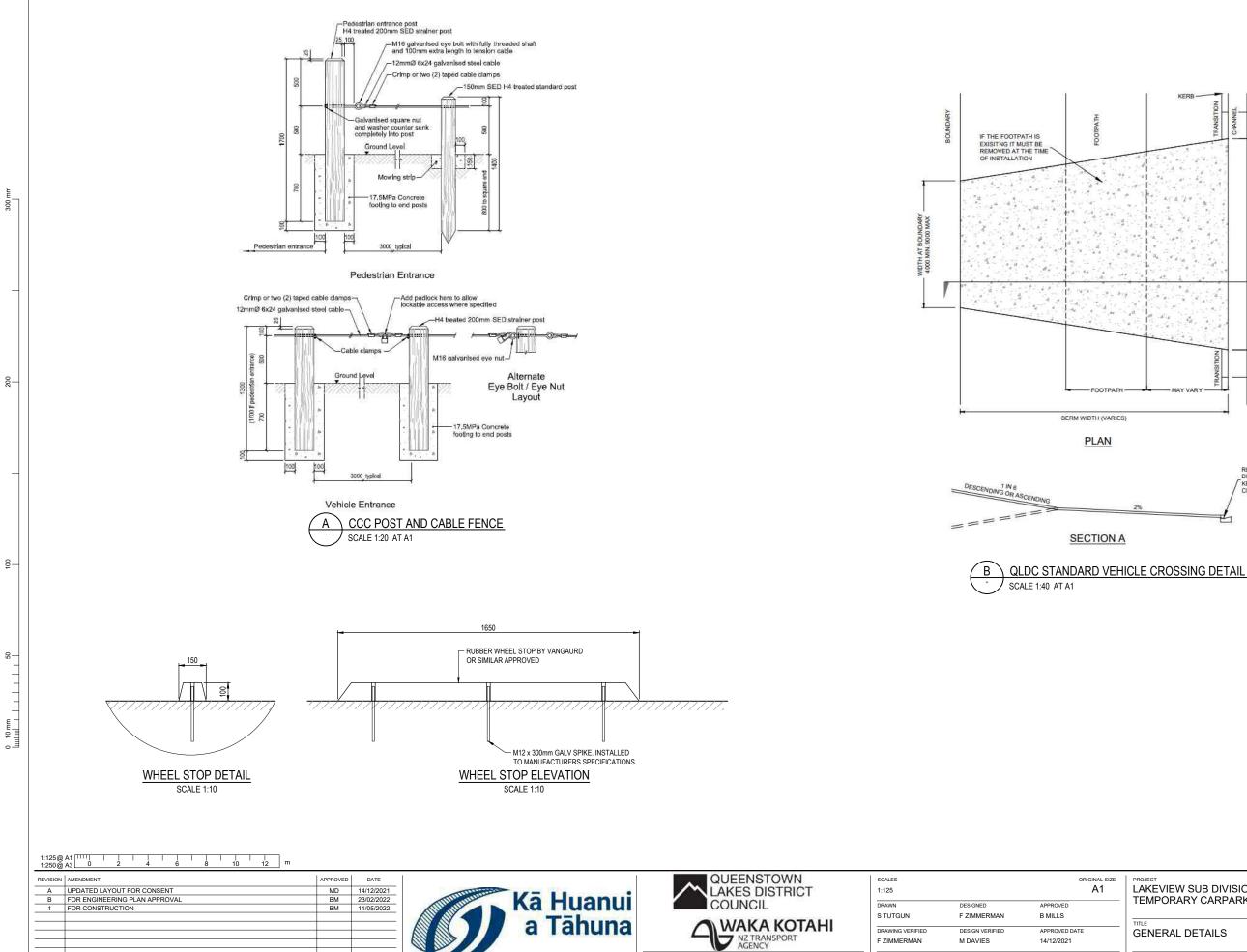
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1	FOR CONSTRUCTION	BM	11/05/2022

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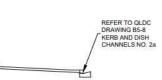
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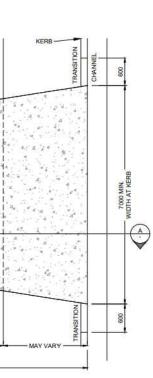
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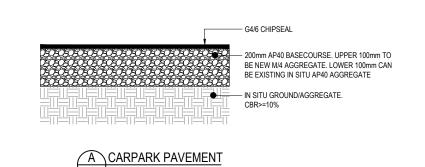
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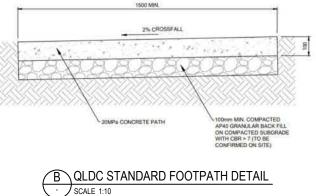
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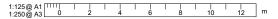






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REVISION	AMENDMENT	APPROVED	DATE
A	UPDATED LAYOUT FOR CONSENT	MD	14/12/2021
В	FOR ENGINEERING PLAN APPROVAL	BM	23/02/2022
1	FOR CONSTRUCTION	BM	11/05/2022

# NOTE:

FOOTPATH FINISHED FLUSH WITH CAR PARK (MAX 10mm PROUD OF CHIPSEAL TYPICAL AND MAX 5mm PROUD CHIPSEAL AT ACCESSIBLE PARKS).



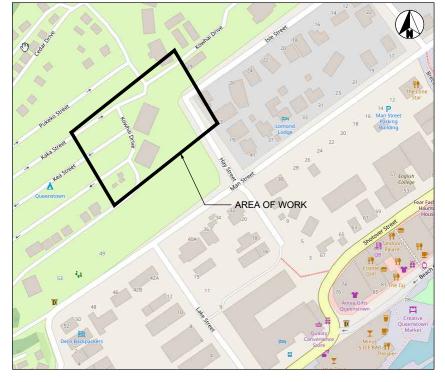
LAKEVIEW SUB DIVISION INFRASTRUCTURE

TITI

PAVEMENT DETAILS

REVISION

DRAWING NUMBER 3334066-CA-1412



LOCATION MAP - HAY STREET, QUEENSTOWN

### LEGEND

- A1 SUPPLY AND INSTALL A GROUND PLANTED OCTAGONAL GALVANISED STEEL COLUMN WITH A SIDE ENTRY BACK TO BACK ARRANGEMENT WITH HORIZONTAL 90mm x 60mmØ LUMINAIRE MOUNTING SPIGOTS COMPLETE WITH TWO (2) NEW AEC ITALO1 OF2H1 SO5 3.7-3M 58W 3000K LED LUMINAIRE (6540 LUMENS). THE LUMINAIRES SHALL BE MOUNTED AT A HEIGHT OF 8m AND BE TILTED AT AN ANGLE OF 0° TO THE HORIZONTAL.
  - SUPPLY AND INSTALL A GROUND PLANTED OCTAGONAL GALVANISED STEEL COLUMN WITH POST TOP MOUNTED VERTICAL 90mm x 60mmØ LUMINAIRE MOUNTING SPIGOT COMPLETE WITH NEW AEC ITALO1 OF2H1 SO5 3.7-2M 40W 3000K LED LUMINAIRE (4390 LUMENS). THE LUMINAIRE SHALL BE MOUNTED AT A HEIGHT OF 8m AND BE TILTED AT AN ANGLE OF 0° TO THE HORIZONTAL. B1
  - C1 SUPPLY AND INSTALL A GROUND PLANTED OCTAGONAL GALVANISED STEEL COLUMN WITH POST TOP MOUNTED VERTICAL 90mm x 60mmØ LUMINAIRE MOUNTING SPIGOT COMPLETE WITH NEW AEC ITALO1 OF2H1 SO5 3.7-4M 76W 3000K LED LUMINAIRE (8360 LUMENS). THE LUMINAIRE SHALL BE MOUNTED AT A HEIGHT OF 8m AND BE TILTED AT AN ANGLE OF 0° TO THE HORIZONTAL.
- FP INDICATIVE AURORA SUPPLY CABINET LOCATION.

INDICATIVE SUPPLY DUCTING ROUTE, SIZE TO BE CONFIRMED

LIGHTING EQUIPMENT SCHEDULE				
EQUIPMENT	QUANTITY	COLUMN / LUMINAIRE TYPE REFERENCE		
AEC ITALO1 OF2H1 SO5 3.7-3M 58W 3000K LED LUMINAIRE (6540 LUMENS).	8	A1		
AEC ITALO1 OF2H1 SO5 3.7-2M 40W 3000K LED LUMINAIRE (4390 LUMENS).	4	B1		
AEC ITALO1 OF2H1 SO5 3.7-4M 76W 3000K LED LUMINAIRE (8360 LUMENS).	1	C1		
8m GROUND PLANTED OCTAGONAL GALVANISED STEEL COLUMN WITH BACK TO BACK ARRANGEMENT WITH HORIZONTAL 90mm x 60mmØ LUMINAIRE MOUNTING SPIGOTS	4	A1		
8m GROUND PLANTED OCTAGONAL GALVANISED STEEL COLUMN WITH POST TOP MOUNTED VERTICAL 90mm x 60mmØ LUMINAIRE MOUNTING SPIGOT	5	B1,C1		

### GENERAL NOTES

- ALL DISTANCES ARE IN METRES UNLESS STATED OTHERWISE
- 2. THE ELECTRICAL SUPPLY FOR THE WHOLE OF THE WORKS IS TO BE METERED.
- ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF QUEENSTOWN LAKES DISTRICT COUNCIL SOUTHERN LIGHT PART TWO TECHNICAL SPECIFICATIONS 2017 DOCUMENT, AS/NZS 1158, NZTA M30 3. SPECIFICATION AND GUIDELINES FOR ROAD LIGHTING DESIGN AND AS/NZS3000:2007.
- ENSURE THAT ALL COLUMNS ARE CLEAR OF UNDERGROUND SERVICES. IF NECESSARY POSITIONS MAY BE ALTERED BY UP TO 1m WHILE RETAINING GENERAL POLE ARRANGEMENT TO AVOID CLASHES WITH UNDERGROUND SERVICES, CONFIRM WITH THE ENGINEER FIRST.
- INSTALL A DRIVEN EARTH AT EVERY NEW LIGHTING COLUMN 5.
- 6. ENSURE THE RAMM DATABASE IS ACCURATELY UPDATED FOR EVERY NEW OR MODIFIED ROAD LIGHT LOCATION, AND LIAISE WITH QLDC TO ENSURE RECORDS ARE APPROPRIATELY COMPLETED.
- THE INTERNAL WIRING BETWEEN THE TERMINAL BLOCKS AND THE LUMINAIRE SHALL BE CIRCULAR 2C 2.5mm² NEUTRAL SCREEN CABLE 7.
- ALL LUMINAIRES SHALL BE FITTED WITH A 7 CONTACT NEMA SOCKET (COMPLIANT WITH ANSI C136.41:2013) AND ZODIAN SS6 (VARIANT) PHOTOCELLS.
- ALL NEW ROAD LIGHTING COLUMNS SHALL BE IN ACCORDANCE WITH THE NZ TRANSPORT AGENCY M26:2012 ROAD LIGHTING COLUMN SPECIFICATION, MANUFACTURED TO NZS 4676 AND GALVANIZED TO AS/NZS 4680.2006. 9.
- 10. LUMINAIRE TILT SHALL BE 0° TO THE HORIZONTAL FOR ALL NEW LUMINAIRES INSTALLED UNLESS STATED OTHERWISE.
- 11. ALL NEW LUMINAIRES SHALL HAVE LABELS AS PER THE REQUIREMENTS OF SECTION 27.8 OF NZ TRANSPORT AGENCY M30:2014 SPECIFICATION AND GUIDELINES FOR ROAD LIGHTING DESIGN.
- 12. ALL COLUMNS ARE TO BE LOCATED AT LEAST 1.0m FROM PRIVATE DRIVEWAYS
- 13. ALL NEW LIGHTING COLUMNS SHALL BE ERECTED WITH THEIR INSPECTION DOORS BEING COMFORTABLY AND SAFELY ACCESSIBLE FOR AN OPERATIVE OF EITHER HANDEDNESS.
- 14. ALL WORK SHALL BE UNDERTAKEN IN ACCORDANCE WITH THE SAFETY IN DESIGN RECORD PF-PR-119(NZ) 03/15 FOR THIS PROJECT
- 15. IT IS ASSUMED THAT COLUMN MANUFACTURER STANDARD FOUNDATION SOLUTIONS SHALL BE PROVIDED BY THE CONTRACTOR. THE ASSOCIATED DESIGN AND PRODUCER STATEMENT DOCUMENTATION IS TO BE BY OTHERS

### SPECIFIC NOTES

- a. THIS CARPARK HAS BEEN DESIGNED TO THE PC2 AND PCD SUB-CATEGORIES OF AS/NZS 1158.3.1:2020.
- b. NEW COLUMNS #06 AND #08 SHALL BE INSTALLED OUTSIDE THE DRIPLINE OF EXISTING TREES.
- ERECTION OF LIGHTING COLUMNS SHALL BE IN ACCORDANCE WITH ECP34 AND SPECIFIC AURORA CLEARANCES (CONFIRMATION BY OTHERS) CLEARANCE SHALL BE CONFIRMED BY OTHERS PRIOR TO WORKS START.
- A METERED QLDC OWNED ELECTRICAL CABLE NETWORK IS TO BE PROVIDED TO SERVICE THE CARPARK LIGHTING AS PER QLDC REQUIREMENTS. ELECTRICAL RETICULATION DESIGN TO BE COMPLETED IN FUTURE STAGES OF DESIGN. UNMETERED UTILITY SUPPLIES SHALL NOT BE PROVIDED TO THIS LOCATION.

### LEGEND CONTINUED

TYPICAL COLUMN DESIGNATION		SETBACKS
COLUMN NUMBER	W X Y Z	0.7m BEHIND THE FACE OF THE KERI 1.7m BEHIND THE FACE OF THE KERI 2.8m BEHIND THE FACE OF THE KERI 0.7m BEHIND THE FOOTPATH.

 	 TERS FOR OUTDOOF AS/NZS 1158.3.1:2020	

1	2	3	4	
		LIGHT TECHNICAL I	PARAMETERS (LTP)	
LIGHTING SUBCATEGORY	AVERAGE HORIZONTAL ILLUMINANCE <sup>a,b</sup> (Ē <sub>h</sub> ) Ix	POINT HORIZONTAL ILLUMINANCE <sup>a,b</sup> (E <sub>Ph</sub> ) Ix	ILLUMINANCE (HORIZONTAL) UNIFORMITY <sup>C.</sup> CAT.P (U <sub>E2</sub> )	POINT
PC2	7	1.5	8	
PCD <sup>d</sup>	-	≥ 14 and ≥ $(\overline{E}_h)^d$	-	

THESE VALUES ARE MAINTAINED. CONFORMANCE IS ACHIEVED BY BEING GREATER THAN OR EQUAL TO THE APPLICABLE TABLE VALUE. CONFORMANCE IS ACHIEVED BY BEING LESS THAN OR EQUAL TO THE APPLICABLE TABLE VALUE.  $E_{p_1}$ , SHALL BE DETERMINED FOR EACH PCD AREA IN THE CAR PARK AND, IN EACH CASE, IT SHALL BE GREATER THAN THE VALUE STATED AND GREATER THAN THE AVERAGE FOR THE OVERALL CAR PARK.

e. THIS LEVEL SHALL BE USED FOR ANY MARKED AREAS FOR PEDESTRIANS TO CROSS.

### CALCULATION RESULTS

### ILLUMINATION CALCULATION SUMMARY

SUB-CATEGORY PC2 - HAYES STREET CARPARK, QUEENSTOWN

LABEL	CALC TYPE	UNITS	E <sub>Ph</sub> AVG.	E <sub>Ph</sub> MAX.	E <sub>Ph</sub> MIN.	U <sub>E1</sub>
PC2 CARPARK	ILLUMINANCE	LUX	10.34	31.4	1.6	3.03
PCD CARPARK	ILLUMINANCE	LUX	N/A	N/A	15.0	N/A



DIGWING NONDER
3334066-CA-1413

DRAWING NUMBER

# LIGHTING DETAILS

# TEMPORARY CARPARK

# LAKEVIEW SUB DIVISION INFRASTRUCTURE

 $E_{\rm Pv}$ 1.0 N/A

5 NT VERTICAL (E<sub>Pv</sub>)

ILLUMINANCE DESIGN AREA

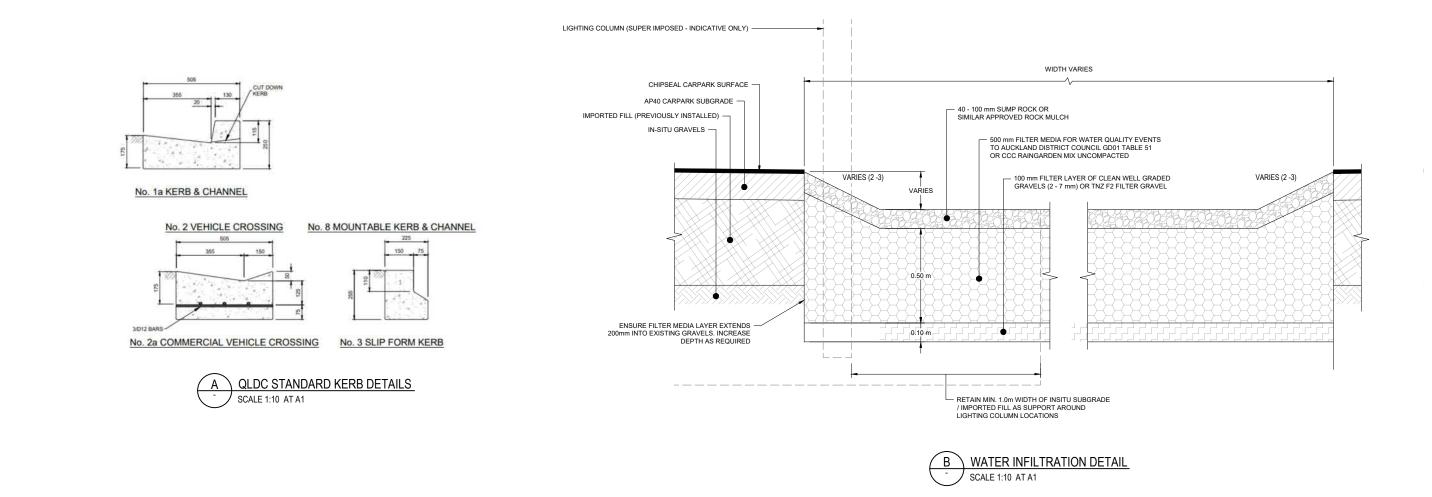
PCD OUTDOOR CARPARK ILLUMINANCE LEVEL - 14 LUX.

PC2 OUTDOOR CARPARK ILLUMINANCE LEVEL - 1.5 LUX.

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REVISION 1

FOR CONSTRUCTION



1:125@									
A	UPDATED LAYOUT FOR CONSENT	APPROVED MD	DATE 14/12/2021			SCALES 1:125		ORIGINAL SIZE	ZE PI
B 1	FOR ENGINEERING PLAN APPROVAL FOR CONSTRUCTION	BM BM	23/02/2022 11/05/2022	Ka Huanui	COUNCIL	DRAWN S TUTGUN	DESIGNED F ZIMMERMAN	APPROVED B MILLS	-   T
				a Tāhuna	WAKA KOTAHI	DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE	_   T
				_	AGENCY	F ZIMMERMAN	M DAVIES	14/12/2021	_   -
					CIVIL GENERAL		DETAILED DE	ESIGN	

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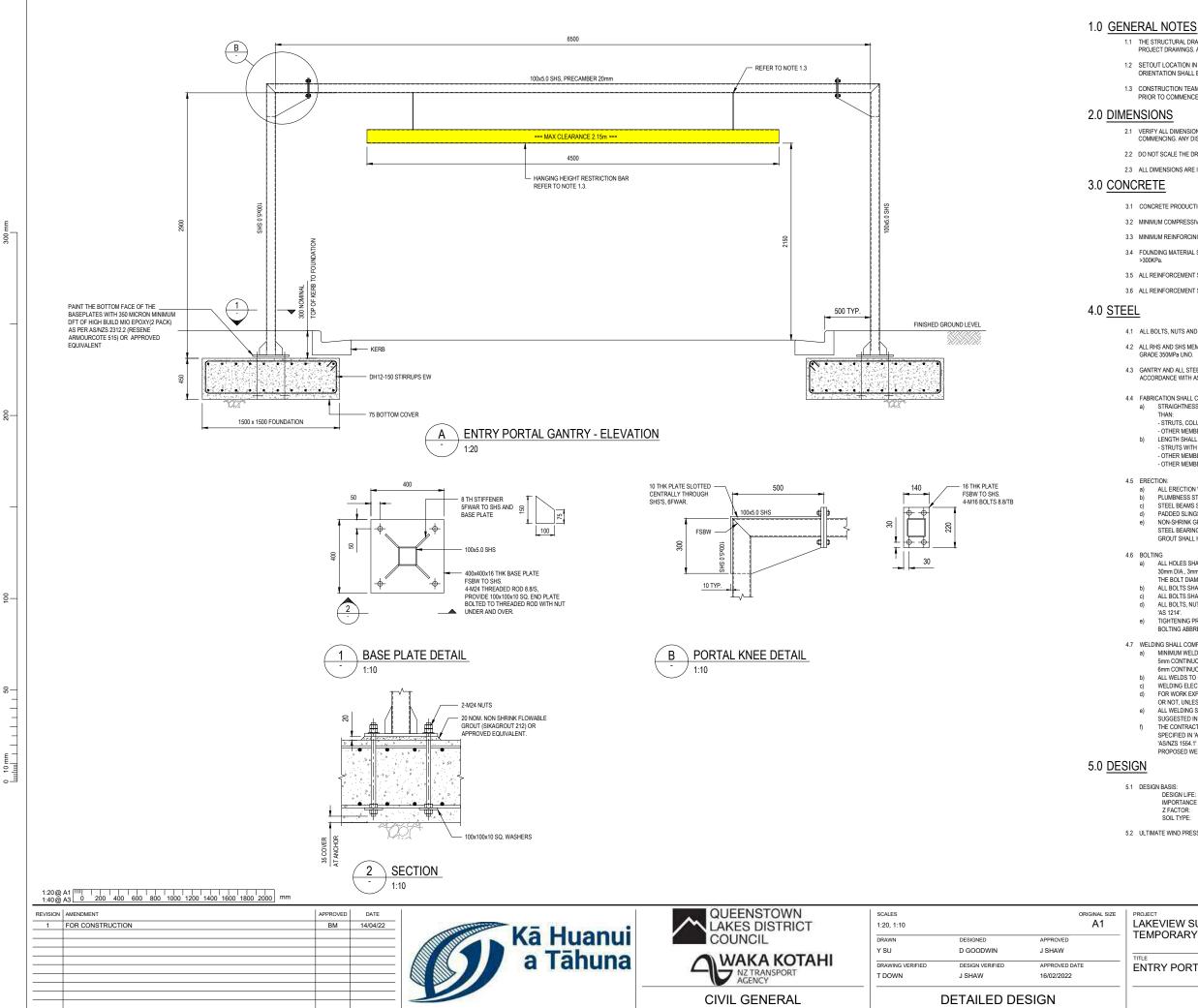
10 mm

DRAWING NUMBER 3334066-CA-1414

TORMWATER DETAILS

ROJECT AKEVIEW SUB DIVISION INFRASTRUCTURE EMPORARY CARPARK





1.1 THE STRUCTURAL DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE SPECIFICATION AND ALL OTHER PROJECT DRAWINGS. ANY DISCREPANCIES SHALL BE REFERRED TO THE ENGINEER FOR RESOLUTION.

1.2 SETOUT LOCATION IN TEMPORARY CARPARK TO BE CONFIRMED BAY THE CONSTRUCTION TEAM.GANTRY ORIENTATION SHALL BE PERPENDICULAR TO TRAFFIC

1.3 CONSTRUCTION TEAM TO PROPOSE DESIRED HEIGHT RESTRICTION BAR AND PROVIDE SHOP DRAWINGS PRIOR TO COMMENCEMENT OF FABRICATION

2.1 VERIFY ALL DIMENSIONS WITH SERVICES, CIVIL AND ALL OTHER PROJECT DRAWINGS PRIOR TO CONSTRUCTION COMMENCING. ANY DISCREPANCIES SHALL BE REFERRED TO THE ENGINEER FOR RESOLUTION.

2.2 DO NOT SCALE THE DRAWINGS.

2.3 ALL DIMENSIONS ARE IN MILLIMETRES, UNLESS NOTED OTHERWISE.

3.1 CONCRETE PRODUCTION SHALL COMPLY WITH NZS3104.

3.2 MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF 40MPa IN ACCORDANCE WITH NZS3109 & NZS3101

3.3 MINIMUM REINFORCING COVER TO BE 30mm UNO.

3.4 FOUNDING MATERIAL SHALL BE INSPECTED BY GEOTECHNICAL ENGINEER TO CONFIRM A ULS BEARING CAPACITY

3.5 ALL REINFORCEMENT SHALL COMPLY WITH AS/NZS4671 AND BE GRADE 500E.

3.6 ALL REINFORCEMENT SHALL BE IN ACCORDANCE WITH NZS3109 AND RELATED DOCUMENTS.

4.1 ALL BOLTS, NUTS AND WASHERS ETC. SHALL BE HOT DIP GALVANISED TO HDG600.

4.2 ALL RHS AND SHS MEMBERS SHALL BE GRADE 350MPa UNO. ALL OTHER STEEL TO BE GRADE 350MPa UNO

4.3 GANTRY AND ALL STEEL TO BE HOT DIPPED AND GAI VANISED TO HD600 IN ACCORDANCE WITH AS/NZS2312

4.4 FABRICATION SHALL COMPLY WITH 'NZS 3404', AS MODIFIED BELOW: STRAIGHTNESS OF MEMBERS AFTER FABRICATION AND BEFORE ERECTION UNO SHALL NOT DEVIATE MORE

THAN:	
- STRUTS, COLUMNS	= L/1000
- OTHER MEMBERS	= L/600
LENGTH SHALL NOT DEVIATE FROM THE TR	RUE LENGTH BY:
- STRUTS WITH END BEARING	= +1mm, -1mm
- OTHER MEMBERS UP TO L = 9.0m	= +0mm, -3mm
OTHER MEMBERS OVER L = 9.0m	= +0mm -5mm

ALL ERECTION WORK SHALL COMPLY WITH 'NZS 3404' AND 'AS4100'. PLUMBNESS STRUTS / COLUMNS SHALL BE WITHIN I /1000 OF TRUE VERTICAL

PLOWINESS STRUTS / OULDINKS SHALL BE WITHIN 1100 OF TRUE VERTICAL. STEEL BEAMS SHALL BE PLACED WITH NATURAL HOG UPWARDS. PADDED SLINGS SHALL BE USED TO HANDLE ALL CORROSION-PROTECTED STEELWORK. NON-SHRINK GROUT SHALL BE USED TO FILL ALL SPACES BETWEEN CONCRETE OR MASONRY, AND STEEL

STEEL BEARING PLATES

GROUT SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 50MPa AT 28 DAYS.

ALL HOLES SHALL BE DRILLED AND SHALL BE 2mm LARGER THAN THE BOLT DIAMETER FOR BOLTS UNDER 30mm DIA, 3mm LARGER FOR M30 BOLTS AND LARGER UNO. HOLES IN BASEPLATES MAY BE 6mm LARGER THAN THE BOLT DIAMETER UNO.

ALL BOLTS SHALL HAVE AT LEAST ONE THREAD PROJECTING THROUGH BOTH SIDES OF NUT.

ALL BOLTS SHALL BE M20-8.85 UNO. ALL BOLTS, NUTS AND WASHERS SHALL BE HOT DIP GALVANISED BY THE MANUFACTURER TO CONFORM TO 'AS 1214'.

TIGHTENING PROCEDURE SHALL COMPLY WITH 'NZS 3404'. BOLTING ABBREVIATIONS ARE TO 'NZS 3404' PROCEDURES

4.7 WELDING SHALL COMPLY WITH 'AS/NZS 1554.1'

MINIMUW WELD SIZE SHALL BE : 5mm CONTINUOUS FILLET UNLESS NOTED : FOR 12mm PLATE & UNDER 6mm CONTINUOUS FILLET UNLESS NOTED : FOR 16mm PLATE & OVER ALL WELDS TO BE CATEGOR' SP TO 76/NZS 1554.1' UNO. FOR 12mm PLATE & UNDER

WELDING ELECTRODES SHALL BE 'E48XX' TO 'AS 1553' UNO

FOR WORK EXPOSED TO THE WEATHER, SEAL WELDS SHALL BE MADE WHETHER SHOWN ON THE DRAWINGS OR NOT, UNLESS SPECIFICALLY NOT REQUIRED. ALL WELDING SHALL BE SUBJECT TO NON DESTRUCTIVE EXAMINATION (NDE) TO THE MAXIMUM LEVEL AS

SUGGESTED IN 'AS/NZS 1554.1, TABLE 7.4'.

SUBJECT IN ASINGS 1334-1, TABLE 74-THE CONTRACTOR SHALL EMPLOY AN INDEPENDENT WELDING INSPECTOR HOLDING QUALIFICATIONS AS SPECIFIED IN ASINZS 1554.1' THE WELDING INSPECTOR'S SCOPE OF WORK SHALL BE AS DEFINED IN 'ASINZS 1554.1' AND THIS SPECIFICATION. THE ENGINEER RESERVES THE RIGHT TO APPROVE OR REJECT THE PROPOSED WELDING INSPECTOR.

5.1 DESIGN BASIS

DESIGN LIFE:	10 Yea
IMPORTANCE LEVEL:	1
Z FACTOR:	0.32
SOIL TYPE:	С

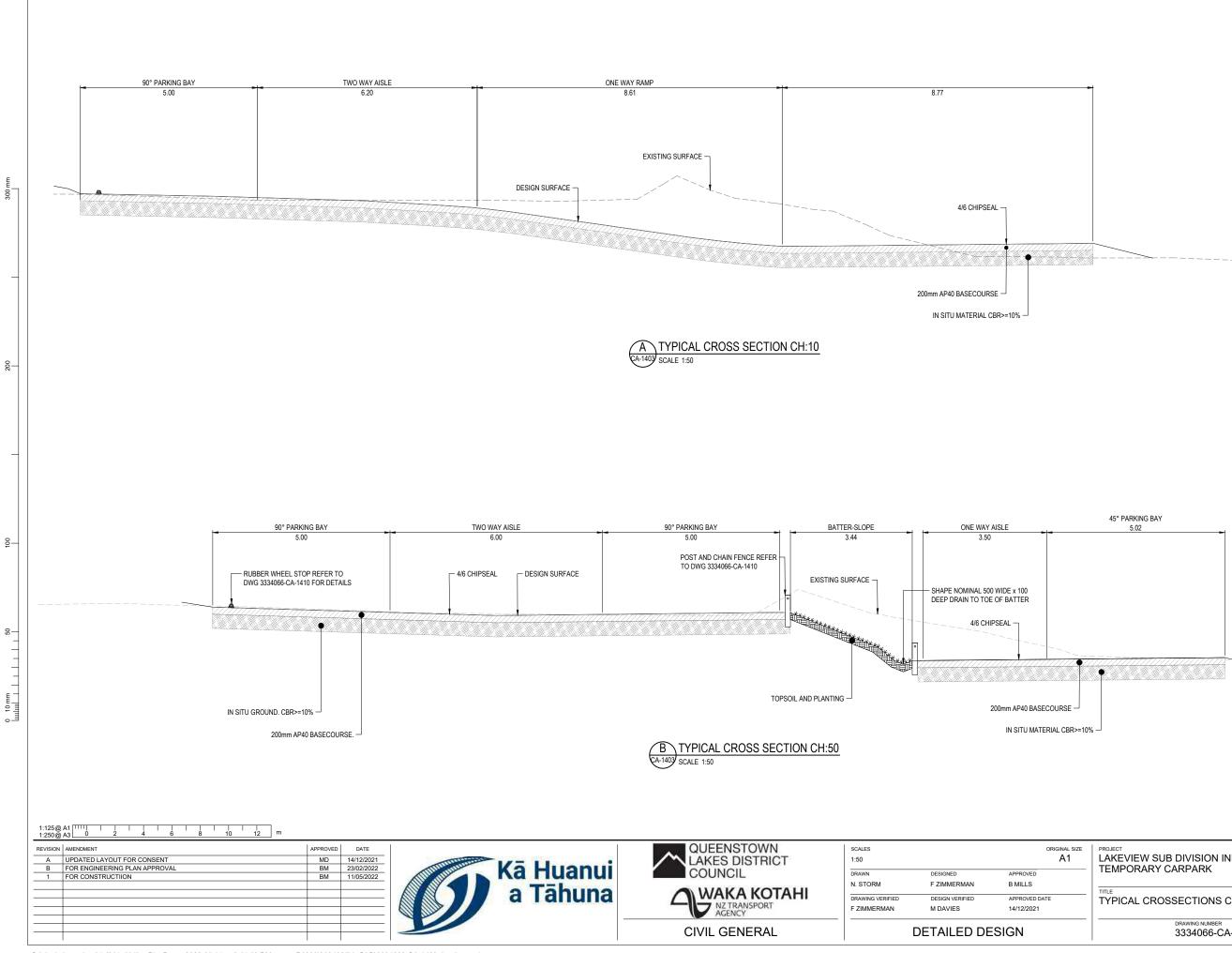
5.2 ULTIMATE WIND PRESSURE: 0.95KPa



LAKEVIEW SUB DIVISION INFRASTRUCTURE TEMPORARY CARPARK

### ENTRY PORTAL GANTRY - STRUCTURAL DETAILS

3334066-CA-1415

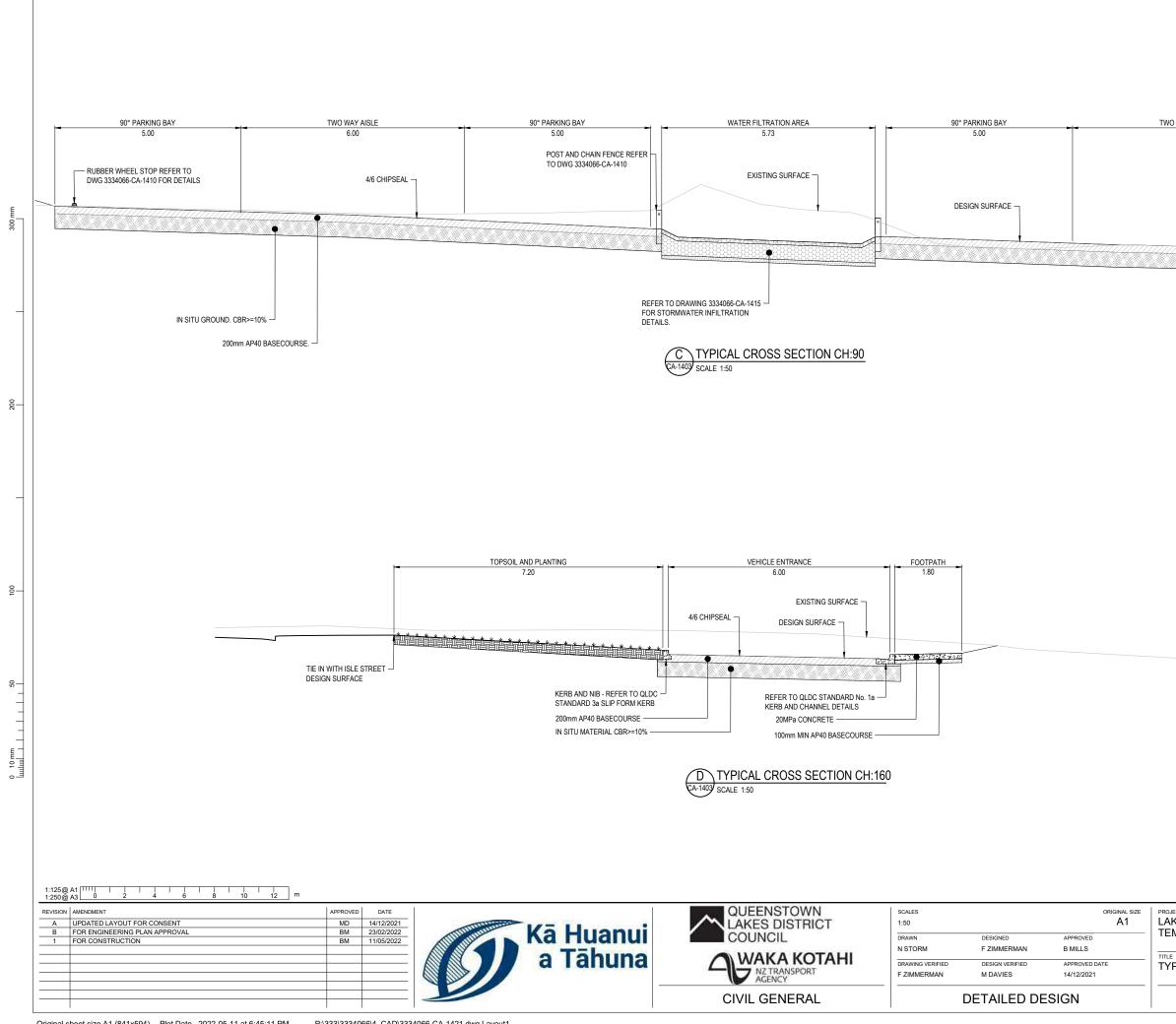


DRAWING NUMBER	
3334066-CA-1420	

TYPICAL CROSSECTIONS CH10 & CH50

LAKEVIEW SUB DIVISION INFRASTRUCTURE





Original sheet size A1 (841x594) Plot Date 2022-05-11 at 6:45:11 PM P:\333\3334066\4. CAD\3334066-CA-1421.dwg Layout1 DRAWING NUMBER 3334066-CA-1421

TYPICAL CROSSECTIONS CH90 & CH160

LAKEVIEW SUB DIVISION INFRASTRUCTURE

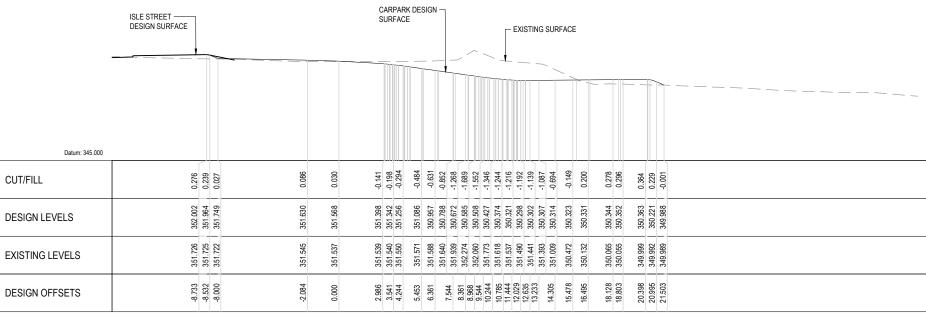
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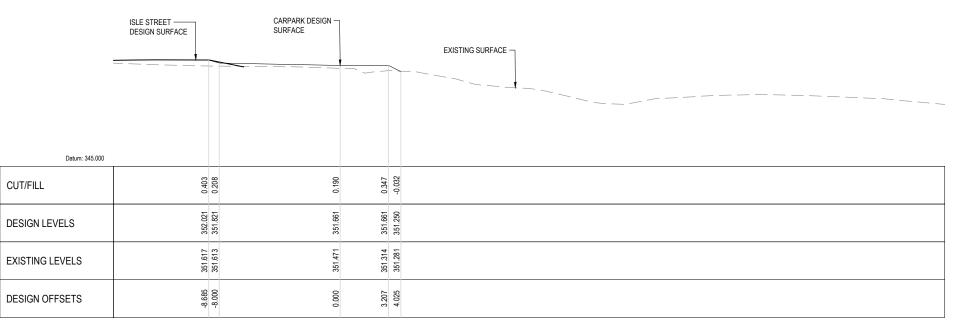
Original sheet size A1 (841x594) Plot Date 2022-05-11 at 6:45:31 PM P:\333\3334066\4. CAD\3334066-CA-1431.dwg Layout1

# NOTES:

REFER SHEET 1403 FOR CHAINAGE LOCATIONS.



# CHAINAGE: 20.00



CHAINAGE: 10.00

# 

REVISION	AMENDMENT	APPROVED	DATE
A	UPDATED LAYOUT FOR CONSENT	MD	14/12/2021
В	FOR ENGINEERING PLAN APPROVAL	BM	23/02/2022
1	FOR CONSTRUCTION	BM	11/05/2022

QUEENSTOWN ORIGINAL SIZE SCALES LAKES DISTRICT 1:125 Kā Huanui a Tāhuna COUNCIL DRAWN DESIGNED APPROVED S TUTGUN F ZIMMERMAN **B MILLS** DRAWING VERIFIED DESIGN VERIFIED APPROVED DATE NZ TRANSPORT AGENCY F ZIMMERMAN M DAVIES 14/12/2021 **CIVIL GENERAL** DETAILED DESIGN

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DRAWING NUMBER	
3334066-CA-1431	

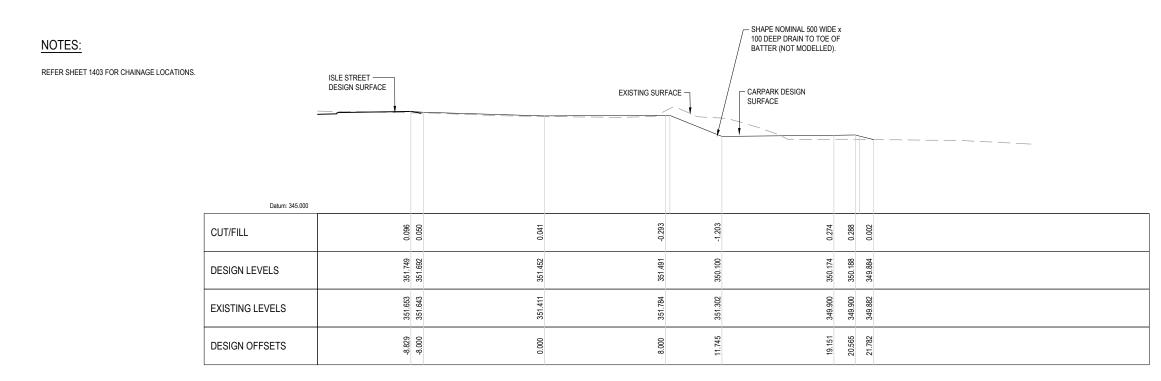
CROSS SECTIONS SHEET 1 OF 9

LAKEVIEW SUB DIVISION INFRASTRUCTURE

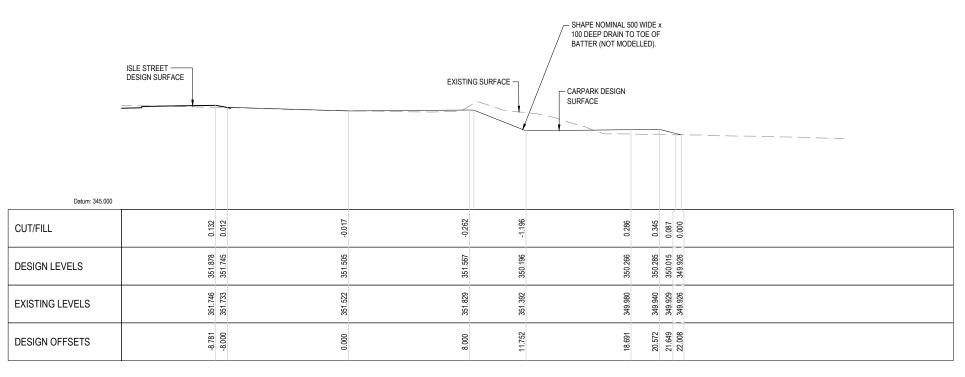
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REVISION





CHAINAGE: 40.00



CHAINAGE: 30.00

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	REVISION	AMENDMENT	APPROVED	DATE
I	A	UPDATED LAYOUT FOR CONSENT	MD	14/12/2021
I				
I	В	FOR ENGINEERING PLAN APPROVAL	BM	23/02/2022
I	1	FOR CONSTRUCTION	BM	11/05/2022
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3334066-CA-1432	

CROSS SECTIONS SHEET 2 OF 9

ORIGINAL SIZE

APPROVED

APPROVED DATE

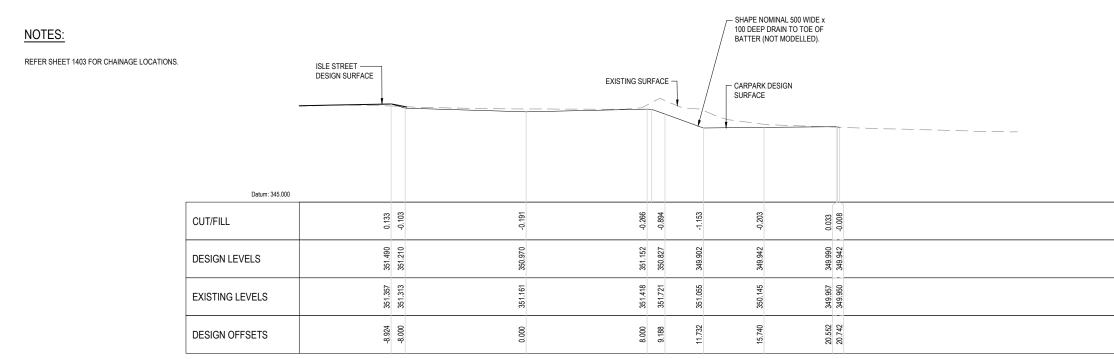
14/12/2021

**B MILLS** 

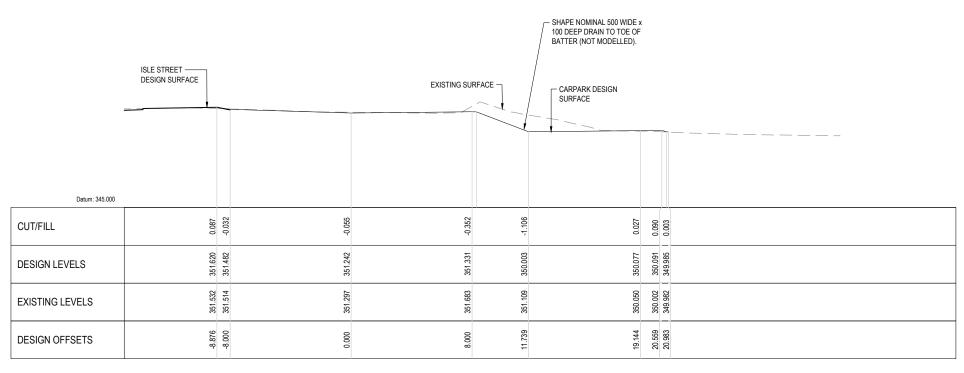
LAKEVIEW SUB DIVISION INFRASTRUCTURE

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CHAINAGE: 60.00



CHAINAGE: 50.00

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REVISION	AMENDMENT	APPROVED	DATE
A	UPDATED LAYOUT FOR CONSENT	MD	14/12/2021
В	FOR ENGINEERING PLAN APPROVAL	BM	23/02/2022
1	FOR CONSTRUCTION	BM	11/05/2022

DRAWING NUMBER	
3334066-CA-1433	

CROSS SECTIONS SHEET 3 OF 9

LAKEVIEW SUB DIVISION INFRASTRUCTURE

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REVISION



## NOTES:

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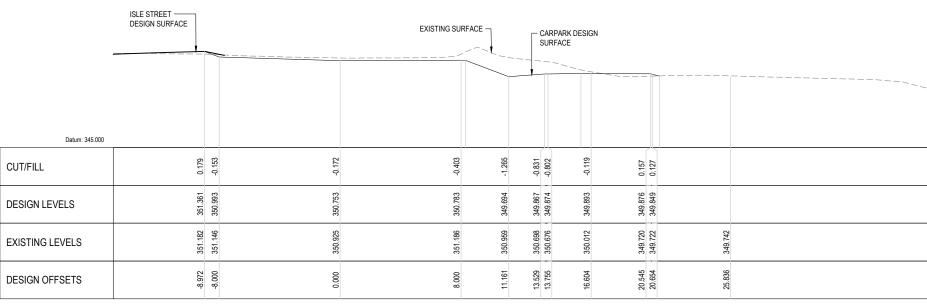
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-	ISLE STREET	_			EXISTIN		SURFA	CE		CARPARK DE SURFACE									
Datum: 345.000																			
CUT/FILL	0.255	-0.064	-0.103	-0.553	-1.540	1 204	-1.420	-0.855	-0.609	0.288	0.279	0 031	200	0.032	-0.296	-0.260	-0.083	0.020	****
DESIGN LEVELS	351.232	350.888	350.648	350.388 350.388	349.536	NON ONC	349.386	349.802	349.930	349.785	349.762	34.9 6.46 4.6	0100010	349.624	349.279	349.279	349.411	349.483	2012 2012
EXISTING LEVELS	350.977	350.951	350.751	350.941	351.076	250 040	350.806	350.657	350.539	349.497	349.482	349 614	10.000	349.591	349.575	349.540	349.493	349.463 240.4EB	>>+;;;
DESIGN OFFSETS	-9.020	-8.000	000 0	000 8	10.576	11 540	11.342	13.736	14.333	19.625	20.538	298 2867	100.02	30.391	31.450	32.911	33.828	34.428	7.1.1

CHAINAGE: 80.00



CHAINAGE: 70.00

REVISION	AMENDMENT	APPROVED	DATE
A	UPDATED LAYOUT FOR CONSENT	MD	14/12/2021
В	FOR ENGINEERING PLAN APPROVAL	BM	23/02/2022
1	FOR CONSTRUCTION	BM	11/05/2022



DRAWING NUMBER	
3334066-CA-1434	

CROSS SECTIONS SHEET 4 OF 9

ORIGINAL SIZE

LAKEVIEW SUB DIVISION INFRASTRUCTURE

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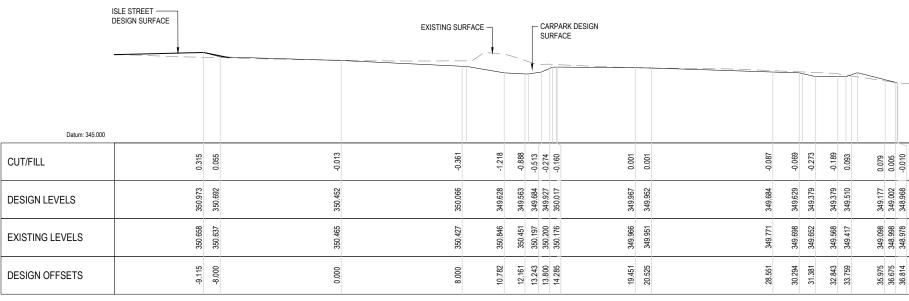
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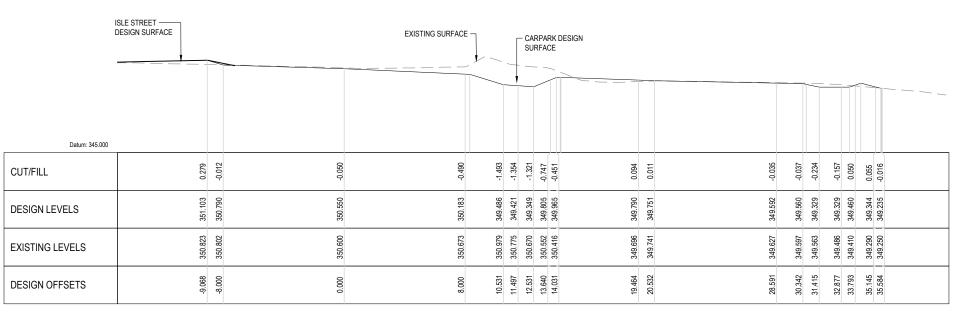
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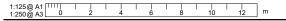
REFER SHEET 1403 FOR CHAINAGE LOCATIONS.



CHAINAGE: 100.00



CHAINAGE: 90.00



REVISION	AMENDMENT	APPROVED	DATE
A	UPDATED LAYOUT FOR CONSENT	MD	14/12/2021
В	FOR ENGINEERING PLAN APPROVAL	BM	23/02/2022
1	FOR CONSTRUCTION	BM	11/05/2022

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DRAWING NUMBER	
3334066-CA-1435	

CROSS SECTIONS SHEET 5 OF 9

ORIGINAL SIZE

APPROVED

APPROVED DATE

14/12/2021

**B MILLS** 

LAKEVIEW SUB DIVISION INFRASTRUCTURE

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### NOTES:

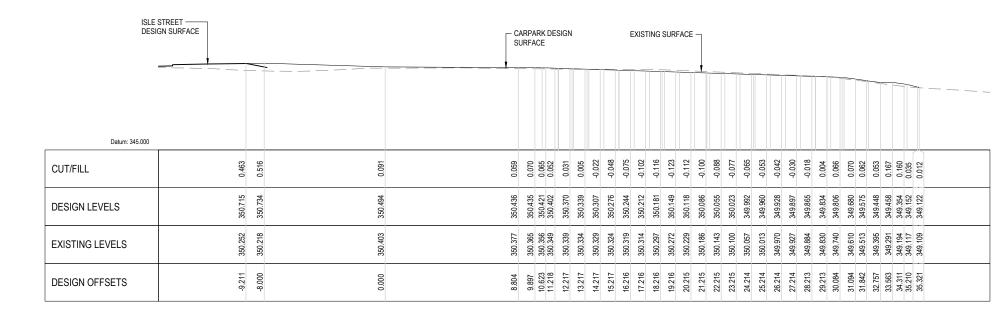
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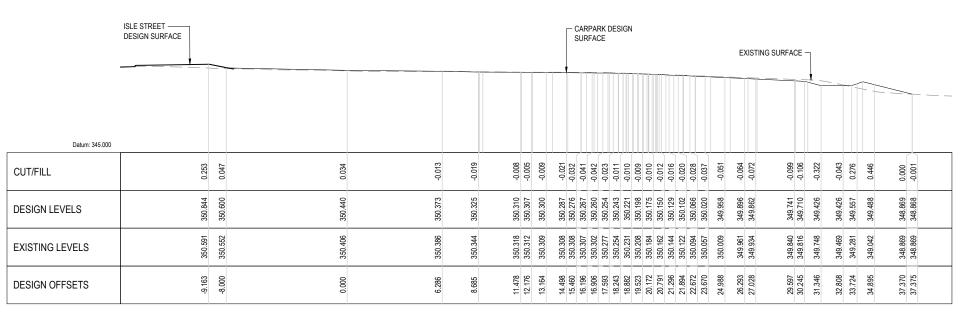
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REFER SHEET 1403 FOR CHAINAGE LOCATIONS.



CHAINAGE: 120.00



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REVISION	AMENDMENT	APPROVED	DATE
A	UPDATED LAYOUT FOR CONSENT	MD	14/12/2021
В	FOR ENGINEERING PLAN APPROVAL	BM	23/02/2022
1	FOR CONSTRUCTION	BM	11/05/2022
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DRAWING NUMBER
3334066-CA-1436

CROSS SECTIONS SHEET 6 OF 9

ORIGINAL SIZE

A1

APPROVED

APPROVED DATE

14/12/2021

BMILLS

PROJECT LAKEVIEW SUB DIVISION INFRASTRUCTURE TEMPORARY CARPARK

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REVISION





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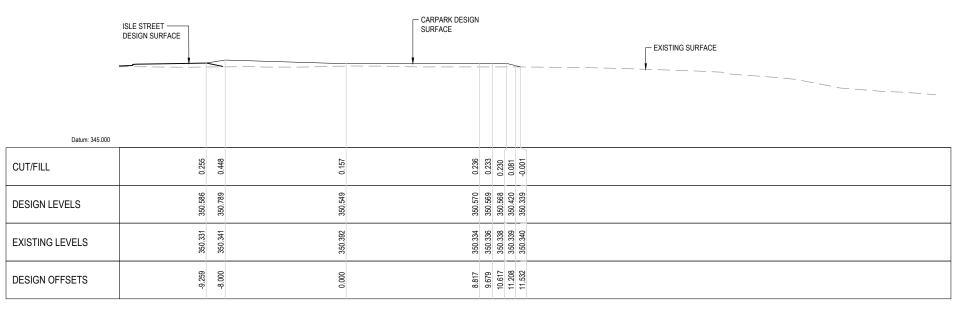
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	ISLE STREET DESIGN SURFACE			CARPARK DESIGN SURFACE	
Datum: 345.000					
CUT/FILL		0.001 0.058 0.205 0.275 0.334 0.360 0.360	0.133	0.385 0.399 -0.197 0.000 -0.127	
DESIGN LEVELS		350.363 350.424 350.581 350.581 350.561 350.731 350.769 350.664	350.594	350.703 350.703 350.702 350.702 350.888 350.888	
EXISTING LEVELS		350.363 350.366 350.376 350.376 350.397 350.409 350.417	350.461	350.318 350.304 350.304 350.099 351.098 351.098 351.015	
DESIGN OFFSETS		-8.578 -8.325 -7.622 -7.038 -6.417 -5.765 -5.765	000.0	8.831 9.490 10.629 12.214 12.336	

CHAINAGE: 140.00



CHAINAGE: 130.00

	REVISION	AMENDMENT	APPROVED	DATE
l	A	UPDATED LAYOUT FOR CONSENT	MD	14/12/2021
l	В	FOR ENGINEERING PLAN APPROVAL	BM	23/02/2022
l	1	FOR CONSTRUCTION	BM	11/05/2022
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QUEENSTOWN LAKES DISTRICT COUNCIL ORIGINAL SIZE SCALES Kā Huanui a Tāhuna 1:125 DRAWN DESIGNED APPROVED S TUTGUN F ZIMMERMAN **B MILLS** WAKA KOTAHI NZ TRANSPORT AGENCY DRAWING VERIFIED DESIGN VERIFIED APPROVED DATE F ZIMMERMAN M DAVIES 14/12/2021 **CIVIL GENERAL** DETAILED DESIGN

DRAWING NUMBER	
3334066-CA-1437	

CROSS SECTIONS SHEET 7 OF 9

LAKEVIEW SUB DIVISION INFRASTRUCTURE

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### NOTES:

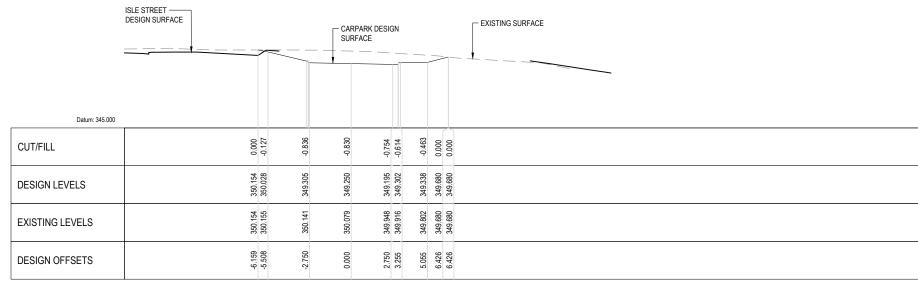
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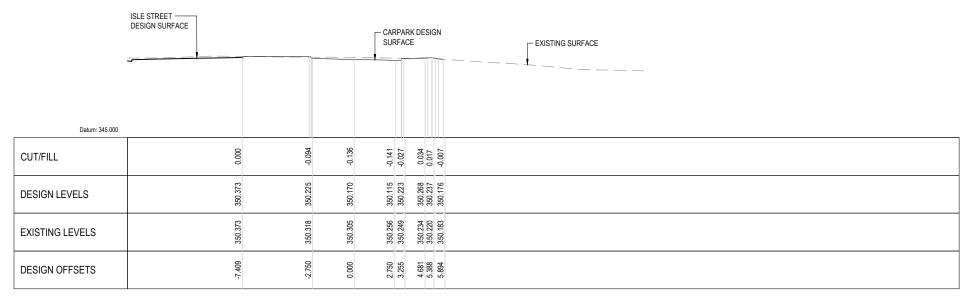
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CHAINAGE: 160.00



CHAINAGE: 150.00

1:125@A1

VISION	AMENDMENT	APPROVED	DATE
А	UPDATED LAYOUT FOR CONSENT	MD	14/12/2021
В	FOR ENGINEERING PLAN APPROVAL	BM	23/02/2022
1	FOR CONSTRUCTION	BM	11/05/2022
	A	A UPDATED LAYOUT FOR CONSENT   B FOR ENGINEERING PLAN APPROVAL	A UPDATED LAYOUT FOR CONSENT MD B FOR ENGINEERING PLAN APPROVAL BM



DRAWING NUMBER	
3334066-CA-1438	

CROSS SECTIONS SHEET 8 OF 9

LAKEVIEW SUB DIVISION INFRASTRUCTURE

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REVISION



# NOTES:

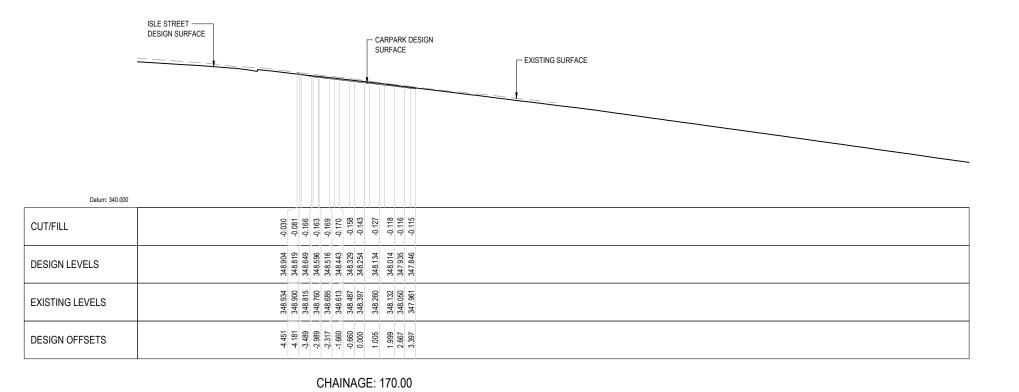
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0 10 mm |uuluul | | | | | | | | REFER SHEET 1403 FOR CHAINAGE LOCATIONS.



QUEENSTOWN LAKES DISTRICT COUNCIL

> WAKA KOTAHI NZ TRANSPORT AGENCY

CIVIL GENERAL

Kā Huanui a Tāhuna SCALES

1:125 DRAWN

S TUTGUN

DRAWING VERIFIED

F ZIMMERMAN

DESIGNED

F ZIMMERMAN

DESIGN VERIFIED

DETAILED DESIGN

M DAVIES

1:125@ A1   · · · ·								
1:250 @ A3	0	2	4	6	8	10	12	m

	REVISION	AMENDMENT	APPROVED	DATE
	A	UPDATED LAYOUT FOR CONSENT	MD	14/12/2021
	В	FOR ENGINEERING PLAN APPROVAL	BM	23/02/2022
	1	FOR CONSTRUCTION	BM	11/05/2022
1				

Original sheet size A1 (841x594) Plot Date 2022-05-11 at 6:47:46 PM P:\333\3334066\4. CAD\3334066-CA-1439.dwg Layout1

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CROSS SECTIONS SHEET 9 OF 9

ORIGINAL SIZE

APPROVED

APPROVED DATE

14/12/2021

**B MILLS** 

LAKEVIEW SUB DIVISION INFRASTRUCTURE

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