

Notice of Meeting:

I hereby give notice that an extraordinary meeting of the Planning and Environment Committee will be held on:

Date: Thursday 14 April 2022

Time: 2.30 pm

Venue: via Zoom audio visual link

The meeting will be live streamed on the Council's YouTube page https://youtu.be/f3qLidq0KAo

Sandy Graham Chief Executive Officer

Planning and Environment Committee PUBLIC AGENDA

MEMBERSHIP

Chairperson Cr David Benson-Pope

Deputy Chairperson Cr Sophie Barker Cr Steve Walker

Members Cr Rachel Elder Mr Matapura Ellison

Cr Christine Garey Cr Doug Hall

Mayor Aaron Hawkins Cr Carmen Houlahan

Cr Marie Laufiso Cr Mike Lord
Cr Jim O'Malley Cr Jules Radich
Cr Chris Staynes Cr Lee Vandervis
Ms Rachel Wesley Cr Andrew Whiley

Senior Officer Robert West, General Manager Corporate and Quality

Governance Support Officer Lauren McDonald

Lauren McDonald Governance Support Officer

Telephone: 03 477 4000 Lauren.mcdonald@dcc.govt.nz www.dunedin.govt.nz

EXTRAORDINARY PLANNING AND ENVIRONMENT COMMITTEE

14 April 2022

Note: Reports and recommendations contained in this agenda are not to be considered as Council policy until adopted.



EXTRAORDINARY PLANNING AND ENVIRONMENT COMMITTEE 14 April 2022

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EXTRAORDINARY PLANNING AND ENVIRONMENT COMMITTEE 14 April 2022

1 APOLOGIES

At the close of the agenda no apologies had been received.

2 CONFIRMATION OF AGENDA

Note: Any additions must be approved by resolution with an explanation as to why they cannot be delayed until a future meeting.

DECLARATION OF INTEREST

EXECUTIVE SUMMARY

- 1. Members are reminded of the need to stand aside from decision-making when a conflict arises between their role as an elected representative and any private or other external interest they might have.
- 2. Elected members are reminded to update their register of interests as soon as practicable, including amending the register at this meeting if necessary.

RECOMMENDATIONS

That the Committee:

- a) **Notes/Amends** if necessary the Elected Members' Interest Register attached as Attachment A; and
- b) **Confirms/Amends** the proposed management plan for Elected Members' Interests.

Attachments

ΩA

TitleRegister of Interest as at 31 March 2022

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Councillor Register of Interest - Current as at 29 March 2022					
Name	Responsibility (i.e. Chairperson etc)	Declaration of Interests	Nature of Potential Interest	Member's Proposed Management Plan	
Aaron Hawkins	Trustee	West Harbour Beautification Trust	Potential conflict WHBT work with Parks and Reserves to co-ordinate volunteer activities	Withdrawal from all West Harbour Beautification Trust/ DCC discussions involving this relationship.	
	Trustee	St Paul's Cathedral Foundation	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.	
	Owner	Residential Property Owner - Dunedin	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.	
	Shareholder	Thank You Payroll	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.	
	Member	ICLEI Oceania Regional Executive	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.	
	Member	Dunedin Hospital Local Advisory Group	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.	
	Member	Green Party	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.	
	Member	Connecting Dunedin (Council appointment)	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.	
	Board Member	Otago Museum Trust Board (Council appointment)	Duties to Trust may conflict with duties of Council Office. Recipient of Council funding	Withdraw from discussion and leave the table. If the meeting is in confidential, leave the room. Seek advice prior to the meeting.	
	Member	Otago Theatre Trust (Council appointment)	Potential grants recipient	Withdraw from discussion and leave the table. If in confidential leave the room. Seek advice prior to the meeting.	
	Member	Otago Polytech's Research Centre of Excellence	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.	
	Member	LGNZ National Council	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.	
	Trustee	Alexander McMillan Trust	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.	
	Trustee	Cosy Homes Trust	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.	
	Chair	LGNZ Policy Advisory Group	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.	
	Member	Local Government New Zealand Zone 6 Committee (Council appointment)	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.	
Sophie Barker	Director	Ayrmed Limited	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.	
	Shareholder	Ocho Newco Limited	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.	
	Shareholder	Various publicly listed companies	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.	
	Property Owner	Residential Property Owner - Dunedin	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.	
	Beneficiary	Sans Peur Trust (Larnach Castle)	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.	
	Mentor	Business Mentors NZ	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.	
	Member	Southern Heritage Trust	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.	

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Name	Responsibility (i.e. Chairperson etc)	Declaration of Interests	Nature of Potential Interest	Member's Proposed Management Plan
	Member	Friends Otago Museum	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Member	Otago Peninsula Trust	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Member	Orokonui Ecosanctuary	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Chairperson	Dunedin Heritage Fund Trust (Council appointment)	Duty to Trust may conflict with duties of Council Office	Withdraw from discussion and leave the table. If the meeting is in confidential, leave the room. Seek advice prior to the meeting.
	Member	Otago Settlers Association (Council appointment)	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Member	Dunedin Vegetable Growers Club	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Committee Member	Otago Anniversary Day Dinner	No conflict Identified	Withdraw from discussion and leave the table. If the meeting is in confidential, leave the room. Seek advice prior to the meeting.
	Member	Dunedin Gas Works Museum Trust (Council appointment)	Potential grants recipient	Withdraw from discussion and leave the table. If the meeting is in confidential, leave the room. Seek advice prior to the meeting.
David Benson-Pope	Owner	Residential Property Ownership in Dunedin	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Trustee and Beneficiary	Blind Investment Trusts	Duty to Trust may conflict with duties of Council Office	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Member	Yellow-eyed Penguin Trust	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Member	New Zealand Labour Party	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Member	Dunedin Heritage Fund Trust (Council appointment)	Duty to Trust may conflict with duties of Council Office	Withdraw from discussion and leave the table. If the meeting is in confidential, leave the room. Seek advice prior to the meeting.
	Member	Connecting Dunedin (Council appointment)	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Member	Tertiary Precinct Planning Group (Council appointment)	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Delegation holder	Second Generation District Plan (2GP) Authority to Resolve Appeals on behalf of Council (Council appointment)	No conflict identified.	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Member	Dunedin Hospital Local Advisory Group	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Member	Otago Regional Transport Committee (Council appointment)	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Commissioner (Community Representative)	District Licensing Committee (Council appointment)	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
Rachel Elder	Owner	Residential Property Ownership - Dunedin	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Member	Greater South Dunedin Action Group	Decisions may be considered on the future of South Dunedin.	Withdraw from discussion and leave the table. If in confidential leave the room. Seek advice prior to the meeting.
	Host Parent	Otago Girls High School	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Advisor/Support Capacity	Kaffelogic	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.

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Name	Responsibility (i.e. Chairperson etc)	Declaration of Interests	Nature of Potential Interest	Member's Proposed Management Plan
	Member	Dunedin Trails Networks Trust	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Chair	Southern Urban Dunedin Community Response Group	Decisions about emergency response recovery may be conflicted	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Member	Craigieburn Reserve Committee (Council appointment)	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Member	Keep Dunedin Beautiful (Council appointment)	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Member	Okia Reserve Management Committee (Council appointment)	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Member	Toitu Otago Settlers Museum Board (Council appointment)	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Chairperson	Disabilitiy Issues Advisory Group	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
Christine Garey	Trustee	Garey Family Trust - Property Ownership - Dunedin	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Chair	Creative Dunedin Partnership (Council appointment)	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Member	Women of Ōtepoti	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Member	Dunedin Symphony Orchestra Foundation Board of Trustees (Council appointment)	Potential grants recipient	Withdraw from discussion and leave the table. If the meeting is in confidential, leave the room. Seek advice prior to the meeting.
	Member	Theomin Gallery Management Committee (Olveston) (Council appointment)	No conflict identified	Withdraw from discussion and leave the table. If the meeting is in confidential, leave the room. Seek advice prior to the meeting.
	Chair	Grants Subcommittee (Council Appointment)	No conflict identified	Withdraw from discussion and leave the table. If the meeting is in confidential, leave the room. Seek advice prior to the meeting.
	Member	Local Government New Zealand Zone 6 Committee (Council Appointment)	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
Doug Hall	Director/Owner	Hall Brothers Transport Ltd	May contract and provide service to DCC	Withdraw from discussion and leave the table. If in confidential leave the room. Seek prior approval from Office of the Auditor General
	Director/Owner	Dunedin Crane Hire	May contract and provide consider to DCC	when required. Withdraw from discussion and leave the table. If in confidential leave
	Director/Owner	bunedin crane nire	May contract and provide service to DCC	the room. Seek prior approval from Office of the Auditor General when required. Withdraw from discussion and leave the table. If in confidential leave
	Director/Owner	Wood Recyclers Ltd	May contract and provide service to DCC	the room. Seek prior approval from Office of the Auditor General when required.
	Director/Owner	Dunedin Concrete Crushing Ltd	May contract and provide service to DCC	Withdraw from discussion and leave the table. If in confidential leave the room. Seek prior approval from Office of the Auditor General
	Director/Owner	Anzide Properties Ltd - Dunedin	No conflict identified	when required. Seek advice prior to the meeting if actual or perceived conflict of
				interest arises. Withdraw from discussion and leave the table. If in confidential leave
	Director/Shareholder	The Woodshed 2014 Limited	May contract and provide service to DCC	the room. Seek prior approval from Office of the Auditor General when required.
	Owner	Property Ownership - Dunedin	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Shareholder	Farmlands	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.

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Name	Responsibility (i.e. Chairperson etc)	Declaration of Interests	Nature of Potential Interest	Member's Proposed Management Plan
	Shareholder	Ravensdown Fertiliser	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Shareholder	PGG Wrightson	Currently no likely conflict	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Shareholder	Silver Fern Farms	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Director/Shareholder	Valley View Development Limited	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Shareholder	Geekfix Limited	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Director	Milburn Processing Limited	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Appellant	2GP	Appellant to the 2GP	Withdraw from discussion and leave the table. If the meeting is in confidential, leave the room. Seek advice prior to the meeting.
	Financial Donor	Dunedin North Community Patrol	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Donor of the use of a building free of charge to the group	North Dunedin Blokes Shed	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Partner	Highland Helicopters	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Supplier	Southweight Truck and Weights for testing Weighbridges Otago & Southland	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Member	Craigieburn Reserve Committee (Council appointment)	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Member	Dunedin Chinese Garden Advisory Board (Council appointment)	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Member	Toitu Otago Settlers Museum Board (Council appointment)	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
Carmen Houlahan	Owner	Residential Property - Dunedin	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Owner	Rental Property - North Dunedin	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Part Owner	Adobe Group Ltd, Wanaka	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Member	Dunedin Rotary Club	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Member	Institute of Directors	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Member	Otago Property Investors Association	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Company Owner/Sole Director	Shelf Company - RU There	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Shareholder	Startup Business	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Member	Toitu Otago Settlers Museum Board (Council appointment)	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.

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Name	Responsibility	Declaration of Interests	Nature of Potential Interest	Member's Proposed Management Plan
	(i.e. Chairperson etc) Member	Dunedin Public Art Gallery Acquisitions Committee (Council appointment)	Possible grants recipient	Withdraw from discussion and leave the table. If in confidential leave
				the room. Seek advice prior to the meeting. Withdraw from discussion and leave the table. If in confidential leave
	Member	Dunedin Public Art Gallery Society (Council appointment)	Possible grants recipient	the room. Seek advice prior to the meeting.
	Member	Mosgiel Taieri Community Board (Council appointment)	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
Marie Laufiso	Property Owner	Residential Property	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Trustee	Community Building Trust - Trust Owner of Property 111 Moray Place	Duty to Trust may conflict with duties of Council Office	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Chair	Otago Mental Health Support Trust	Potential grants applicant which would result in pecuniary interest. Duty to Trust may conflict with duties of Council Office	Do not participate in consideration of grants applications. If the meeting is in confidential, to leave the room.
	Member	Women of Ōtepoti Recognition Initiative	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Family Member	Staff member a relative	Potential conflict depending on level of staff member involvement	Managed by staff at officer level if a perceived conflict of interest arises.
	Secretary	Brockville Improvements and Amenities Society (BIAS)	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Trustee	Corso Ōtepoti Dunedin Trust	Potential grants recipient	Withdraw from discussion and leave the table. If in confidential leave the room. Seek advice prior to the meeting.
	Member	Dunedin Manufacturing Holdings Inc	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	National Communications Officer	P.A.C.I.F.I.C.A Inc	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Dunedin Branch Treasurer	P.A.C.I.F.I.C.A Inc	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Member	Green Party of Aotearoa New Zealand	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Member	Age Concern (Council appointment)	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Member	Dunedin Abrahamic Interfaith Group (Council appointment)	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Chair	Dunedin Refugee Steering Group (Council appointment)	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Member	Dunedin Fair Trading Committee (Council appointment)	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Deputy Chair	Grants Subcommittee	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Chair	Social Well Being Advisory Group (Council appointment)	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
Mike Lord	Trustee	ML Lord Family Trust - Owner of Residential Properties - Dunedin	Duty to Trust may conflict with duties of Council Office	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Shareholder	Fonterra	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Member	Federated Farmers	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.

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Name	Responsibility (i.e. Chairperson etc)	Declaration of Interests	Nature of Potential Interest	Member's Proposed Management Plan
	Director	Mosgiel Rotary Club	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Member	Mosgiel RSA	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Member	National Party	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Chairperson	Federated Farmers Charitable Trust	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Shareholder	Various publicly listed companies	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Chairperson	Otago Rural Support Trust	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Trustee	Otago Youth Adventure Trust	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Member	Strath Taieri Community Board (Council Appointment)	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Member	Hereweka Harbour Cone Trust (Council appointment)	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Member	District Licensing Committee (Council Appointment)	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
Jim O'Malley	Owner	Biocentrix Ltd	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Member	Mosgiel Association Football Club	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Director	Ocho Newco Limited	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Owner	Residential Property Dunedin	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Owner	Ayrmed Limited	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Member	Ice Sports Dunedin	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Member	Dunedin Manufacturing Holdings	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Member	Ice Sports Dunedin Incorporated (Council appointment)	Potential grants recipient	Withdraw from discussion and leave the table. If in confidential leave the room. Seek advice prior to the meeting.
	Member	Connecting Dunedin (Council appointment)	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Member	Okia Reserve Management Committee (Council appointment)	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Member	Tertiary Precinct Planning Group (Council appointment)	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Member	Waikouaiti Coast Community Board (Council Appointment)	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
Jules Radich	Shareholder	Izon Science Limited	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Shareholder	Taurikura Drive Investments Ltd	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.

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Name	Responsibility (i.e. Chairperson etc)	Declaration of Interests	Nature of Potential Interest	Member's Proposed Management Plan
	Shareholder	Golden Block Developments Ltd	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Director	Cambridge Terrace Properties Ltd	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Director/Shareholder	Southern Properties (2007) Ltd	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Director	Arrenway Drive Investments Limited	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Director	Golden Centre Holdings Ltd	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Director/Shareholder	IBMS Ltd	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Director/Shareholder	Raft Holdings Ltd	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Director/Shareholder	Otago Business Coaching Ltd	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Director	Effectivise Ltd	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Director	Athol Street Investments Ltd	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Director/Shareholder	Allandale Trustee Ltd	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Shareholder	Aberdeen St No2 Ltd	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Member	Dunedin Public Art Gallery Acquisitions Committee (Council appointment)	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Member	Dunedin Public Art Gallery Society (Council appointment)	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Member	Road Safety Action Plan	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	100% Shareholder/Director	Panorama Developments Limited	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Member	Tertiary Precinct Planning Group (Council appointment - alternate)	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Member	Saddle Hill Community Board (Council appointment)	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
Chris Staynes	Chairman	Cargill Enterprises	Contractor and service provider to DCC	Withdraw from discussion and leave the table. If the meeting is in confidential leave the room.
	Director	Wine Freedom	Supplier to DCC	Withdraw from discussion and leave the table. If the meeting is in confidential leave the room.
	Patron	Otago Model Engineering Society	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Member	Balmacewen Lions Club	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Trustee	Otago Southland Manufacturers Association Trust	Possible co-funder of ED project. Duties to the Trust may conflict with duties of Council	Withdraw from discussion and leave the table. If the meeting is in confidential leave the room. Seek advice prior to the meeting.
	Life Member	Otago Chamber of Commerce	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.

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Name	Responsibility (i.e. Chairperson etc)	Declaration of Interests	Nature of Potential Interest	Member's Proposed Management Plan
	Deputy Chair	Cancer Society of Otago/Southland	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Board Member	NZ Cancer Society	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Member	Patearoa Golf Club	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	President	Balmacewen Lions	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Trustee	CJ and CA Staynes Family Trust - Property Owner - Dunedin and Patearoa	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Director	George Street Wines Limited	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Director/Shareholder	Saddle Hill Investment Trust Limited	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Member	NZ Association of Amateur Radio and Transmitters	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Board Member	Otago Museum Trust Board (Council appointment)	Duties to Trust may conflict with duties of Council Office. Recipient of Council funding	Withdraw from discussion and leave the table. If the meeting is in confidential, leave the room. Seek advice prior to the meeting.
	Trustee	Theomin Gallery Trust (Council appointment)	Duties to Trust may conflict with duties of Council Office. Recipient of Council funding	Withdraw from discussion and leave the table. If the meeting is in confidential, leave the room. Seek advice prior to the meeting.
	Chairman	Grow Dunedin Partnership (Council appointment)	Duties may conflict with duties of Council Office. Recipient of Council funding	Withdraw from discussion and leave the table. If the meeting is in confidential, leave the room. Seek advice prior to the meeting.
	Member	Dunedin Shanghai Association (Sister City Society) (Council appointment)	Potential grants recipient	Withdraw from discussion and leave the table. If the meeting is in confidential, leave the room. Seek advice prior to the meeting.
	Trustee	For Trades Apprecnticeship Training Trust	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Member	Social Well Being Advisory Group (Council appointment)	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Member	Local Government New Zealand Zone 6 Committee (Council appointment)	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
Lee Vandervis	Director	Lee Vandervis, Antonie Alm-Lequeux and Cook Allan Gibson Trustee Company Ltd - Residential Property Ownership - Dunedin	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Director	Bunchy Properties Ltd - Residential Property Ownership - Dunedin	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Owner	Vandervision Audio and Lighting - Hire, Sales and Service Business	May contract and provide service to DCC	Withdraw from discussion and leave the table. If the meeting is in confidential leave the room. Seek advice prior to the meeting.
Steve Walker	Chairperson	Dunedin Wildlife Hospital Trust	Potential grants recipient	Withdraw from discussion and leave the table. If the meeting is in confidential leave the room. Seek advice prior to the meeting.
	Chairperson	West Harbour Beautification Trust	Potential conflict WHBT work with Parks and Reserves to co-ordinate volunteer activities	Withdrawal from all West Harbour Beautification Trust/ DCC discussions involving this relationship.
	Member	Orokonul Ecosanctuary	Potential grants recipient	Withdraw from discussion and leave the table. If the meeting is in confidential leave the room. Seek advice prior to the meeting.
	Member	Port Chalmers Golf Club	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.

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Name	Responsibility (i.e. Chairperson etc)	Declaration of Interests	Nature of Potential Interest	Member's Proposed Management Plan
	Member	Keep New Zealand Beautiful	Potential grants recipient	Withdraw from discussion and leave the table. If the meeting is in confidential leave the room. Seek advice prior to the meeting.
	Member	Society of Beer Advocates	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Member	New Zealand Labour Party	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Member	Port Chalmers Historial Society	Potential grants recipient	Withdraw from discussion and leave the table. If the meeting is in confidential leave the room. Seek advice prior to the meeting.
	Owner	Residential Property - Dunedin	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Shareholder	Various publicly listed companies	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Member	NZ Sea Lion Trust	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Member	Dunedin Edinburgh Sister City Society (Council appointment)	Potential grants recipient	Withdraw from discussion and leave the table. If the meeting is in confidential, leave the room. Seek advice prior to the meeting.
	Member	Connecting Dunedin (Council appointment)	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Member	Te Ao Turoa Partnership (Council appointment)	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Member	Keep Dunedin Beautiful (Council appointment)	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Member	Tertiary Precinct Planning Group (Council appointment - alternate)	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Member	West Harbour Community Board (Council appointment)	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
Andrew Whiley	Owner/Operator	Whiley Golf Inc and New Zealand Golf Travel Ltd	No conflict identified	Withdraw from discussion and leave the table. If the meeting is in confidential leave the room. Seek advice prior to the meeting.
	Director/Shareholder 22 May 2017	Estate of Grace Limited	No conflict identified	Withdraw from discussion and leave the table. If the meeting is in confidential leave the room. Seek advice prior to the meeting.
	Trustee	Japek (Family Trust) - Property Ownership - Dunedin	Duties to Trust may conflict with duties of Council Office.	Withdraw from discussion and leave the table. If the meeting is in confidential, leave the room. Seek advice prior to the meeting.
	Member	Otago Golf Club	No conflict identified	Withdraw from discussion and leave the table. If the meeting is in confidential, leave the room. Seek advice prior to the meeting.
	Member	Dunedin South Rotary Club	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Board Member	New Zealand Professional Golfers Assn	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Member	Institute of Directors	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Member	National Party	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Chairman	Volunteer South	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Member	Dunedin Otaru Sister City Society (Council appointment)	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.

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Name	Responsibility (i.e. Chairperson etc)	Declaration of Interests	Nature of Potential Interest	Member's Proposed Management Plan
	Member	Dunedin Public Art Gallery Society (Council appointment)	Potential grants recipient	Withdraw from discussion and leave the table. If the meeting is in confidential, leave the room. Seek advice prior to the meeting.
	Member	Grow Dunedin Partnership (Council appointment - alternate)	Potential grants recipient	Withdraw from discussion and leave the table. If the meeting is in confidential, leave the room. Seek advice prior to the meeting.
	Member	NZ Masters Games Trust Board (Council appointment)	Potential grants recipient	Withdraw from discussion and leave the table. If the meeting is in confidential, leave the room. Seek advice prior to the meeting.
	Chair	Dunedin Community House Executive Committee	Potential grants recipient	Withdraw from discussion and leave the table. If the meeting is in confidential, leave the room. Seek advice prior to the meeting.
	Member	Puketai Residential Centre Liaison Committee (Council appointment)	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Member	Otago Property Investors Association	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Member	Chisholm Links Golf Club	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Member	Otago Peninsula Community Board (Council appointment)	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
Rachel Wesley	Chairperson	Te Rûnanga ô Ōtakou	Possible conflict if Rûnaka a submitter to an agenda item	Withdraw from discussion and leave the table. If the meeting is in confidential leave the room. Seek advice prior to the meeting.
,		Aukaha (1997) Ltd	Aukaha contracts to and receives partnership funding from DCC. Possible conflict if Aukaha is a submitter to an agenda item	Withdraw from discussion and leave the table. If the meeting is in confidential leave the room. Seek advice prior to the meeting.
	Board Member	Otago Museum Trust Board (Council appointment)	Duties to Trust may conflict with duties of being a committee member.	Withdraw from discussion and leave the table. If the meeting is in confidential leave the room. Seek advice prior to the meeting.
	Trustee	Ngãi Tahu Mãori Rock Art Trust	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises. Seek advice prior to the meeting if actual or perceived conflict of
	Co-Chair	Workforce Central Dunedin	No conflict identified	interest arises.
	Chair	Scott Hall Inc	Potential conflict as hall is owned by DCC and receives a management grant	Withdraw from discussion and leave the table. If the meeting is in confidential leave the room. Seek advice prior to the meeting.
	Property Owner	Residential Property	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Beneficiary	T.A.T. Wesley Whānau Trust - owns Māori freehold land	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises. Seek advice prior to the meeting if actual or perceived conflict of
	Member	Green Party	No conflict identified	interest arises. Seek advice prior to the meeting if actual or perceived conflict of
	Member	Institute of Directors	No conflict identified	interest arises. Seek advice prior to the meeting if actual or perceived conflict of
	Member Alternate Representative	New Zealand Archaeological Association	No conflict identified	interest arises.
		Te Rûnanga ô Ngãi Tahu	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
Matapura Ellison	Chairperson	Kati Huirapa Rūnaka ki Puketeraki	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.
	Runaka Representative	Te Rûnanga ô Ngãi Tahu	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of interest arises.

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IName	Responsibility (i.e. Chairperson etc)	Declaration of Interests	Nature of Potential Interest	Member's Proposed Management Plan
				Seek advice prior to the meeting if actual or perceived conflict of
	Director	Ötäkou Health Ltd		interest arises.
	Trustee	Waikouaiti Māori Foreshore Trust	No conflict identified	Seek advice prior to the meeting if actual or perceived conflict of
				interest arises.
	Chairperson	Otago Museum Māori Advisory Committee	L	Seek advice prior to the meeting if actual or perceived conflict of
				interest arises.
		L., ., ., ., ., ., .		Seek advice prior to the meeting if actual or perceived conflict of
	Runaka Representative	Māori Participation Working Party	No conflict identified	interest arises.



PART A REPORTS

GEORGE STREET RETAIL QUARTER DEVELOPED DESIGN

Department: Project Management Office

EXECUTIVE SUMMARY

- This report is to update the Planning and Environment Committee on the developed design for George Street Retail Quarter (Retail Quarter).
- The report discusses the key features of the developed design, the cultural narrative and the next steps in design and implementation.

RECOMMENDATIONS

That the Committee:

Notes the George Street Retail Quarter Developed Design report.

BACKGROUND

- The Central City Plan and Retail Quarter upgrade have been reported to Council on several occasions.
- The Retail Quarter project aims to renew existing three waters infrastructure, improve safety and accessibility, and enhance the amenity of the Retail Quarter.

DISCUSSION

- The Retail Quarter developed design is the culmination of a process started in 2011 with the development of the Central City Plan. Since 2019, the feedback from workshops, consultation events and various forms of public feedback sessions have been incorporated into the design. Community engagement and feedback has been carefully considered in the developed design to reflect Dunedin's diverse culture and history.
- As detailed design is progressed, the team will continue to incorporate further stakeholder feedback.

The Kāi Tahu Cultural Narrative

7 The design team have worked closely with Kāi Tahu through Aukaha to integrate a cultural narrative into the Retail Quarter design.

EXTRAORDINARY PLANNING AND ENVIRONMENT COMMITTEE 14 April 2022

- This cultural narrative brings key Kāi Tahu principles to the fore of the design. These principles have been integrated into the design in a range of ways including the paving design, colour palate, symbology, species used in plantings, public art, use of quotes and other te reo in the streetscape, and increased space for informal sharing and interaction between people.
- 9 Further discussion of the various ways these principles have influenced the design is available in the design report (Attachment A).

Other histories

- 10 Recognising that George Street is a multi-layered and multicultural meeting place, the design team will also work to incorporate other voices into the street through the detailed design process through such elements as public art, story-telling and furniture design. One such partnership with City of Literature is already underway, bringing through a number of written elements that can be used throughout the street to celebrate Dunedin's literary history.
- 11 A website (tentatively titled "Hidden in Plain Sight") is also under development that will enable visitors and the community to learn more about the history of the area including the important buildings, communities, and people associated with the Retail Quarter. This will enable the telling of multiple stories about George Street without adding too many signs or interpretive elements that would clutter the street. It will also provide opportunities for different elements to be focused on at different times and for information to evolve as research adds to our understanding of the history of the area.

Accessibility

A project goal has been to make the street more accessible for people with disabilities. Targeted consultation has occurred with representatives from the disability community and will continue throughout the project. A specific accessibility review of the detailed designs will take place alongside the safety review and any recommended outcomes will be included.

Car parking

- When Council endorsed the adaptation of George Street to a one-way, slow street, one of the concerns raised was to ensure similar levels of on-street car parking were maintained. The design team has achieved this outcome, both expanding the area available for people and amenity space while maintaining the existing levels of car parking. In the Farmers Block (the first George Street block to commence construction) the design has maintained 17 car parks.
- 14 Further detail on car parking, including the exact numbers, locations, uses and time allocations will be confirmed as detailed design is worked through in each block.

OPTIONS

15 This is a report for noting. There are no options.

NEXT STEPS

Detailed design is now underway for the Farmers Block and other blocks will continue in succession as the project proceeds. Construction of the Farmers Block will commence in late April 2022.



EXTRAORDINARY PLANNING AND ENVIRONMENT COMMITTEE 14 April 2022

17 Procurement processes for public art and further refinement of specific elements of the design, such as the play area, will continue over the coming months alongside staged construction and implementation.

Signatories

Author:	Glen Hazelton - Project Director, Central City Plan
Authoriser:	Josh Von Pein - Programme Manager - Major Projects Simon Drew - General Manager Infrastructure and Development

Attachments

	Title	Page
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EXTRAORDINARY PLANNING AND ENVIRONMENT COMMITTEE 14 April 2022

SUMMARY OF CONSIDERATIONS				
Fit with purpose of Local Government				
This decision enables democratic local decision This decision promotes the social, economic, en the present and for the future.	_	-		
Fit with strategic framework				
Social Wellbeing Strategy Economic Development Strategy Environment Strategy Arts and Culture Strategy 3 Waters Strategy Spatial Plan	Contributes ⊠ ⊠ ⊠ ⊠ ⊠ ⊠ ⊠ ⊠	Detracts	Not applicable	
Integrated Transport Strategy Parks and Recreation Strategy Other strategic projects/policies/plans	⊠ ⊠ 			
The Retail Quarter project has worked to embor	dy key elements	of Council's Str	ategic Framework.	
Māori Impact Statement				
There continues to be a focus on working closely with mana whenua on the Retail Quarter project and there is a strong emphasis in the design on re-invigorating the area with visual and cultural expressions of mana whenua identity. The developed design presented here has involved strong collaboration with Aukaha.				
Sustainability				
The design includes a number of sustainability elements such as the rain gardens for managing and filtering stormwater, planting to attract native insects and birds, and the use of locally-sourced materials in paving.				
Digital workshops and mentoring are underway to assist with business sustainability in collaboration with Business South. The design also seeks to encourage greater social sustainability by creating a more equitable and accessible place for people of all ages and abilities				
LTP/Annual Plan / Financial Strategy /Infrastructure Strategy				
The Retail Quarter project is funded within the Long Term Plan.				
Financial considerations				
There are no new financial considerations resulting from this report.				
Significance				
The report is considered low in terms of Council's Significance and Engagement Policy.				
Engagement – external				

Engagement has occurred on the project through many forums such as the Central City Plan and through many groups such as the Central City Advisory Group and Construction Reference Group. External engagement will continue with the focus now on minimising disruption to stakeholders during

construction.

EXTRAORDINARY PLANNING AND ENVIRONMENT COMMITTEE 14 April 2022

SUMMARY OF CONSIDERATIONS

Engagement - internal

There remains internal engagement with all parts of the DCC around the coordination and implementation of the project. The developed design has been presented to key technical staff and refinements are being made.

Risks: Legal / Health and Safety etc.

The project maintains a comprehensive risk register that is assessed on a monthly basis.

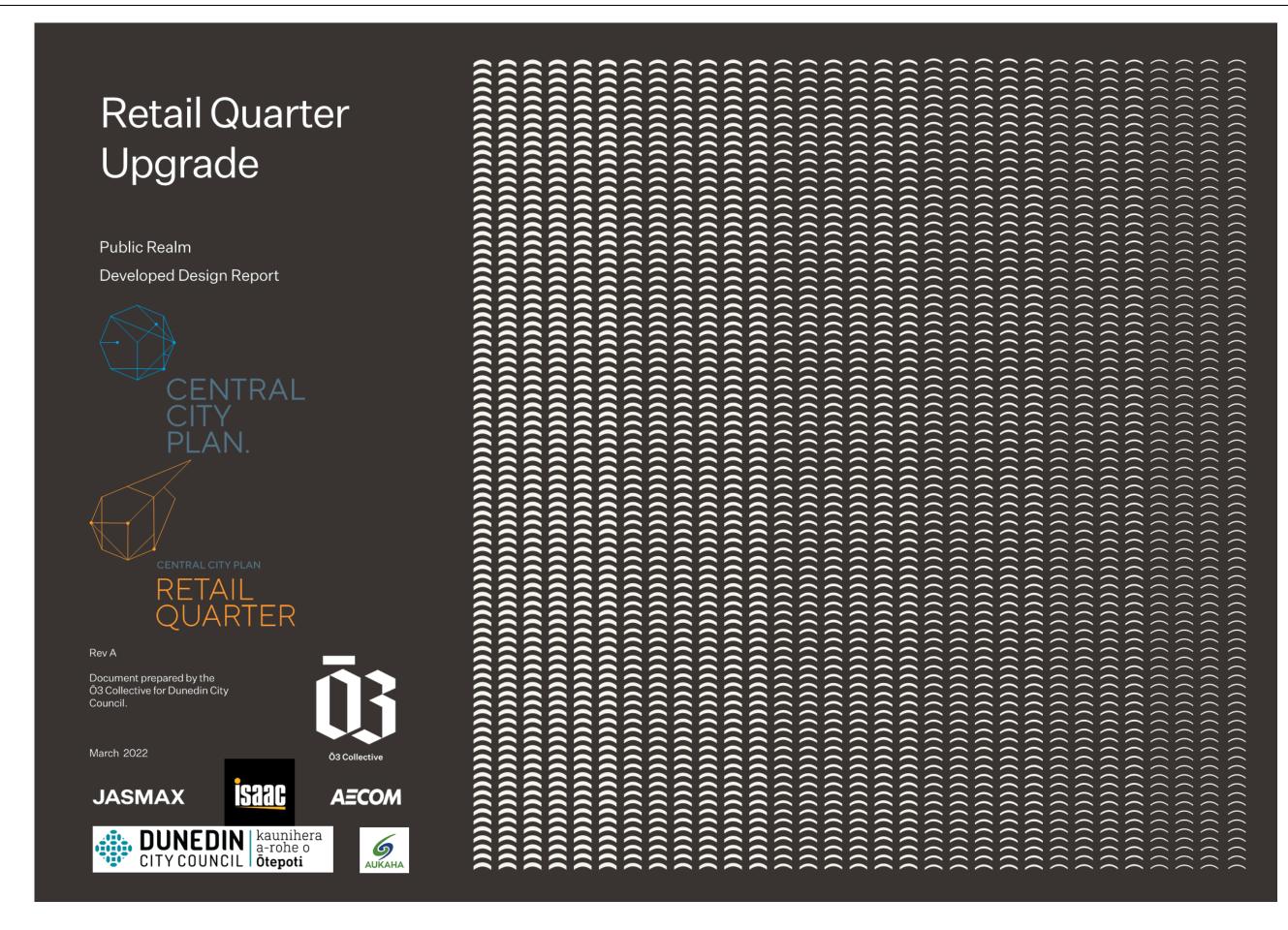
Conflict of Interest

There are no identified conflicts of interest.

Community Boards

The project is of interest to all residents of the city including those covered by Community Boards.







Executive Summary

Following on from councils resolution for a one-way south function for George Street, the Ō3 Collective, Dunedin City Council and Aukaha have collaborated to deliver the Developed Design for George Street.

This developed design report has built on the preliminary design and provides greater clarity and detail for the proposed new street layout. This document crystallises the design thinking to date and provides illustrative imagery, plans and 3D views to further explain the layout of the street and the components that are proposed within it. It is supported by a technical set of 1:100 general arrangement plans and keynotes.

The redesign of George Street has been a long time in the making, necessitated by the need to upgrade aging infrastructure as well as aiming to reinvigorate the city centre for the residents of greater Dunedin and those who live nearby or within the Retail Quarter. It looks to compliment the aspiration of the central city plan, to make Dunedin 'one of the worlds great small cities'.

The George Street project aspires to re-think how to move through, and around the city centre safely and comfortably. The wider opportunity for central Dunedin is to provide a main street that re-engages with the natural beauty of the region and reflects the strong sense of place. It also provides a central destination that people want to spend time in and is lively, active and a prosperous place to do business. Streets reflect the people and place in which they are set, and this document reflects considerable effort defining the identity of the city and converting it into the streetscape.

Interwoven throughout the design is a strong presence of Kāi tahu and recognition of mana whenua. Values are imbued at the macro and the micro scales. For example, the individual paving units are bespoke and their shape is based on the very definition of Ōtepoti itself with the larger paving setout referencing the traditional patterns on the windows of Ōtākau marae. The colour palette acknowledges mahika kai species and the proposed catenary lighting is a metaphoric barracouta darting across the street. The proposed design reflects the whakapapa of place.

George Street has a rich colonial heritage which is represented today with many beautiful façades that line the street. The design seeks to showcase and enhance the richness of the beautiful heritage assets by allowing the public to explore the street out beyond the awnings where a better view is enabled as well as framing particular views and selecting locations for trees that compliment the architectural façades.



Historic photo of George Street, early 20th century. Source DCC.

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Artist impression of future George Street.



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Design partners:

The $\bar{\text{O}}3$ Collective is a consortium formed of the following organisations.

- Jasmax. (Urban design and landscape architecture)
 - AECOM. (Engineering)
 - Isaacs. (Contractors)

The $\bar{\text{O}}3$ Collective is working in close partnership with Dunedin City Council (DCC) and Aukaha to ensure a cohesive and transparent design process is undertaken to ultimately inform an outstanding result.



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6.0

6.1

6.2

APPENDICES

Technical drawings

Aukaha - mana whenua cultural narrative

George Street Retail Quarter Developed Design

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Introduction

Introduction 1.1

This report contains the Developed Design phase of the Retail Quarter Project for George Street. The designs contained within the report follow on from the Preliminary Design Report prepared by the O3 Collective dated April 2020 and builds on the Detailed Business Case prepared in 2021.

The project background 1.1.1

Dunedin City Council (DCC) and its partners have recognised the need for upgrades to George Street and the Retail Quarter to focus on the future. In 2018-2019 DCC prepared high level look and feel designs for George Street and engaged with stakeholders and the people of Ōtepoti Dunedin to get feedback and input into the design process.

This project's scope covers four city blocks within the Retail Quarter from Albany Street to Moray Place and Great King Street to Filleul Street. George Street, the traditional retail destination in Ōtepoti Dunedin is the focus of the project. (see map opposite which identifies the project extents).

A key mandate for the project was to partner with Kāi Tahu mana whenua through the life of the project, to share responsibilities in the decision making process and to prepare a shared vision for George Street and the Retail Quarter. The relationship is summed up in this statement prepared by DCC:

"Dunedin City Council and mana whenua working together in a partnership of shared values to enhance and protect our unique Ōtepoti Dunedin for the future of its people."



1.1.2 Purpose of this document

The intention of this Developed Design is to integrate and review stakeholder feedback from the Detailed Business Case and Preliminary Design for George Street and to take the design thinking forward, applying more detailed consideration.

This report should be read in conjunction with the preliminary design report which provides details on the central city context and background to the proposals.

1.1.3 The project programme

The diagram opposite illustrates the George Street project programme from the city centre plan inception through to the developed design report and the commencement of construction in the future.

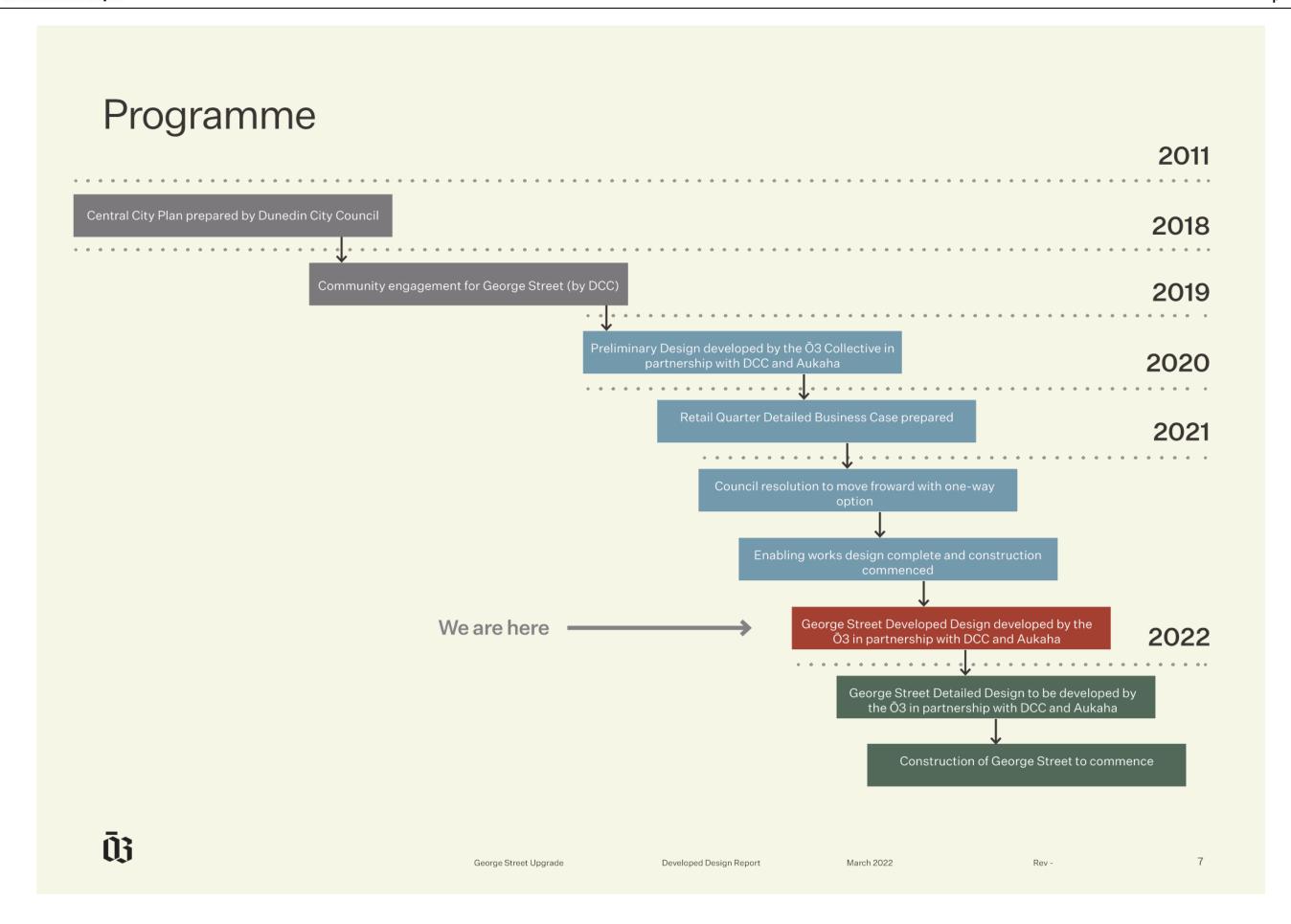
The Developed Design stage is now 100% complete with the submission of this report. The next stage will be the detailed design where construction drawings and specifications will be prepared ready for construction in 2022.

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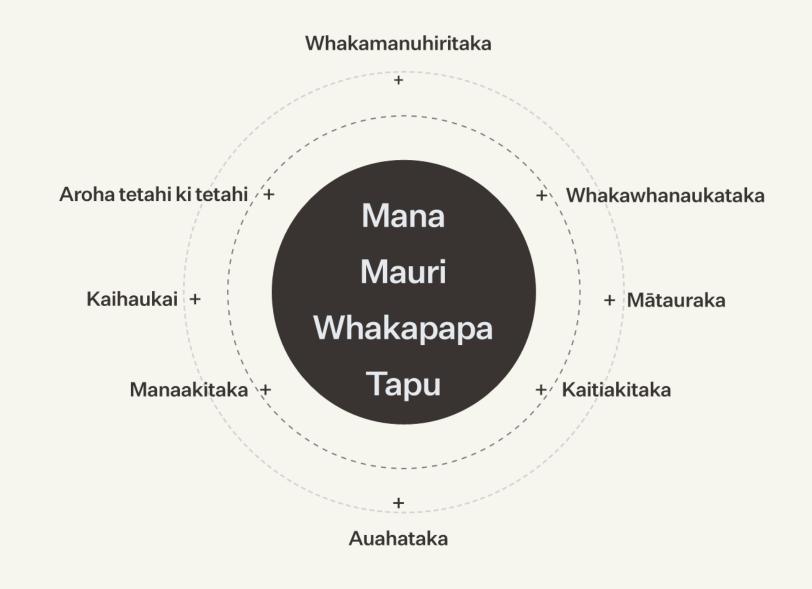
Kāi Tahu cultural values framework

Kāi Tahu cultural values

Whilst the colonial heritage of Dunedin is well understood and forms the backbone of the city centre's architectural heritage, the incorporation of Kāi Tahu cultural values are another key element of the project brief. Representatives of mana whenua have been involved in the project process as a partner to DCC and have given guidance and input into the design throughout the preliminary and developed design phase.

The diagram opposite illustrates the cultural values framework developed by mana whenua for projects within their takiwā and adapted for the Retail Quarter and George Street project specifically.

The inner ring provides the four core cultural values of Mana, Mauri, Whakapapa and Tapu that are foundational to a mana whenua world view. The surrounding rings identify other cultural values and concepts that are informed by the four core values. Mana whenua have identified these supporting values to be of a particular relevance to this project. In this diagram only the values that have highest importance for George Street are identified (there are many more that reside in the outer tiers that will be more or less important for other areas and projects in the rohe)



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Below is the Kāi Tahu whakatauki that sits above and provides the overall aspiration of mana whenua in Ōtepoti and across Te Wai Pounamu.

> **Puritia Tawhia** Kia ita Te mana whenua, Te mana tupuna, Te mana takata

Holdfast Steadfast and resolute To the authority on land, to the heritage bestowed, to human right

1.2.1 Explanation of cultural values

Mana

For Kāi Tahu, mana is inherited from their tupuna, their rights and responsibilities have never been extinguished and it is at the forefront of how they see themselves in the city. How important is it for the city to have mana? This is a discussion about the prestige of Ōtepoti Dunedin and how we enhance it together.

Whakapapa

To acknowledge the whakapapa of place and people is important. It creates a deeper understanding of who we are as individuals and as a community and the recognition of the interconnectedness of ecosystems and humans.

Mauri

Mana whenua acknowledges the existence of Mauri: It is an active phenomena in all things animate and inanimate. Mauri is the protector of the health of a person or place.

Kaitiakitaka

Kaitiakitaka relates to the interconnection and interdependence on our natural environment past, present and future. Guardianship is a responsibility for all of us. Respecting the environment and taking care of our resources as individuals and community.

Mātauraka

Knowing our stories to gather an authentic and informed knowledge of what has happened in the past.

Manaakitaka

In the modern day context can mean to be hospitable, to be generous and show general respect. It is about acknowledging the mana of each individual as a reciprocal process.

Whakamanuhiritaka

Is about hospitality, catering for people when they arrive to a place. To provide sustenance to others and live comfortably in a shared space, sharing resources together.

Aroha tetahi ki tetahi

Is about respect and reciprocation. Considering and caring for others and respecting and acknowledging each other's customs.

Kaihaukai

Being dependent upon the sustainable harvesting and preservation of local resources (looking after our economy in our own back yard). This is the traditional practise of trading and exchanging. A fundamental component is the building of relationships through regular exchanges that strengthen within and extending out to new communities. It is dependant on tikaka practices to ensure correct procedures are acknowledged in order for exchange to happen.

Whakawhanaukataka

This encompasses relationships, kinship and sense of family connection. It describes relationships through shared experiences and working together providing people with a sense of belonging.

Auahataka

Is the creative essence imbued within a thing or a place that gives it its special presence and uniqueness.

George Street Upgrade Developed Design Report March 2022

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Background Central City Plan





The Central City Plan

The bold vision that has come from the Central City Plan is make Ōtepoti Dunedin 'One of the worlds great small cities'. A significant body of work has been done in the creation of the Central City Plan that sets out how this can be achieved.

The CCP identified a series of 'quarters' and 'precincts' in order to break down the central city and define areas of character, function and land use. The Quarter Plan is illustrated opposite.

The extents of this project covers a significant proportion of the Retail Quarter (the Dunedin Hospital redevelopment makes a up the majority of the

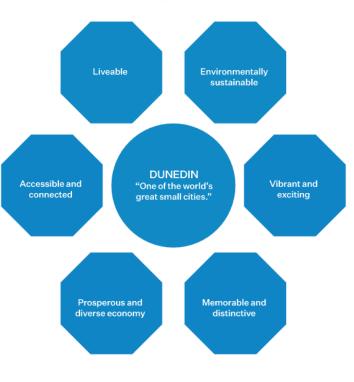
One of the key outputs of the CCP was the establishment of the spatial plan strategic objectives which give the high level direction across the central city. These objectives are listed below:

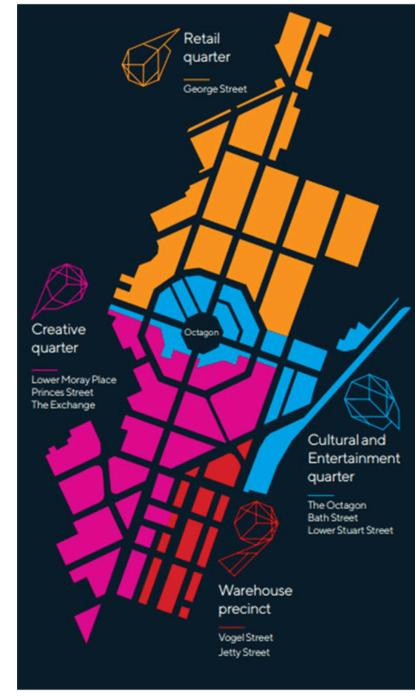
- A liveable city
- An environmentally sustainable and resilient city
- · A city that enables a prosperous and diverse economy
- An accessible and connected city
- · A vibrant and exciting city
- · A memorable and distinctive city

In addition the CCP objectives a further three objectives were established for the Retail Quarter in the DCC concept design stage. These objectives are

- Make George Street a more attractive place for people to visit
- Improve the safety and accessibility for pedestrians and other vulnerable road users and reduce crash rates
- Coordinate infrastructure renewals to limit the extent of further disturbances

Central City Plan objectives





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George Street Developed Design Report March 2022

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1.3.1 The Retail Quarter

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The Retail Quarter Objectives and Design Principles were developed by DCC through the development of the Central City Plan in 2011. Extensive engagement with both stakeholders and the public was undertaken at this stage. Feedback received by DCC has informed the Retail Quarter's 3 objectives and 4 design principles generated for consultation from February to April 2019.

These are relevant to both the Retail Quarter as a whole and also as a starting point for the development of specific George Street objectives.



3 Objectives

- 1. Improve safety and accessibility for pedestrians and other vulnerable road users and reduce crash rates
- 2. Make George Street a more attractive place for people to visit
- 3. Coordinate infrastructure renewals to limit the extent of further disturbances

4 Design Principles

- 1. Putting people first
- 2. Expressing an Ōtepoti / Dunedin sense of place
- 3. Greening the city
- 4. Streets as places

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George Street Retail Quarter Developed Design

George Street



Background preliminary design project objectives

1.4 Preliminary design objectives

Building on the Central City Plan six project objectives were developed during the Preliminary Design stage of the project. These objectives evolved through a series of workshops with key stakeholders DCC, Aukaha and the O3 Collective (refer to the George Street Preliminary Design Report for further details and explanation of the process of establishing the objectives).

The George Street project objectives are used within the Developed Design and throughout the life of the project as a guide to ensure that these key outcomes are achieved.

Future Focused

Design a street that is maintainable, innovative and flexible to adapt over time to the needs of the people of Dunedin and take on the responsibility to consider future generations.

Identity + Sense of

Place

Reinforce George Street as Dunedin's premier retail street that reveals the unique identity, character and whakapapa of George Street.

Environmentally Sustainable

Create a green central city street that brings people closer to nature, fosters the kaitiaki relationship and embraces water sensitive design.

Accessible and Connected

Transform George Street into a people focused street that is safe and inclusive for all ages and abilities while enhancing connectivity within the retail quarter and maintaining access for people, properties and businesses.

Prosperous and Diverse Economy

Support local businesses by creating a public realm that promotes trade and exchange, encourages people to spend more time, and provides an attractive setting for a productive and meaningful day and night time economy.

Memorable + Distinctive

Make George Street a vibrant and beautiful social destination where locals and visitors meet. A place with creative essence and where street events are celebrated.

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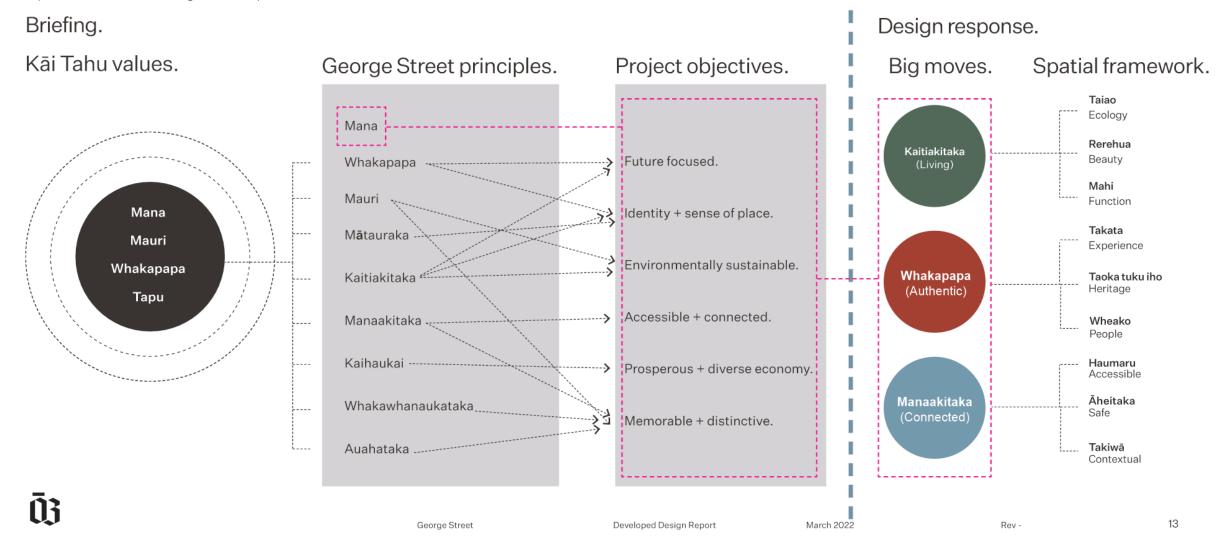
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1.4.2 Embedding Kai Tahu values

The flow diagram below illustrates the process of embedding the Kāi Tahu cultural values within the George Street project objectives. The diagram also highlights the design response including the Preliminary Design Big Moves and Spatial Framework (refer to the George Street Preliminary Design Report for further details on the Big Moves and Spatial Framework).



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Background preliminary design big moves

1.5 The big moves

The three big moves were prepared during the Preliminary Design phase which aim to consolidate the Kāi Tahu values, the George Street Principles and the Project Objectives within the design. They provide a way to focus design energy on the things that matter most for the street.



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Kaitiakitaka

A living street

A living street will be full of life and connected with natural systems such as water and the forest ecology that exists in the nearby greenbelt. It will be beautiful so that everyone enjoys its appearance and cares for it.



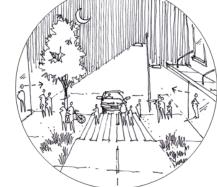
An authentic street

Dunedin is unique. Its city centre streets should provide an authentic experience that represents the city's rich heritage and community of people that are creative, diverse and resilient. People of all ages, abilities and backgrounds will experience a street network that is safe, inclusive and vibrant and reflects their values.



A connected street

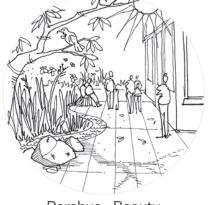
Streets are for everyone, where public life plays out and reflects the personality of the city and its inhabitants. It's where we receive our guests and citizens, making them feel welcome and respected through the provision of a public realm that is safe and accessible.



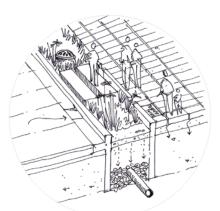
Haumaru - Safe



Taiao - Ecology



Rerehua - Beauty



Mahi - Function



Takata - People



Taoka tuku iho - Heritage

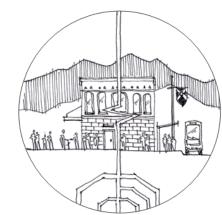


Wheako - Experience





Āheitaka - Accessible



Takiwā - Contextual

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Retail Quarter detailed business case (DBC)

1 Way Street

Detailed business case

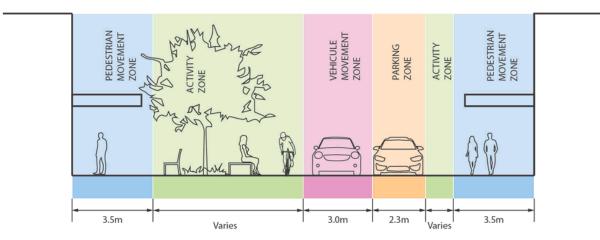
The Retail Quarter detailed business case was completed in mid 2021 with the aim to provide a body of evidence and analysis of the options developed in the Preliminary Design phase and variations of these options that were proposed in councils peer review processes.

The options considered were based on vehicle movement in the form of twoway or one-way streets as illustrated in the diagrams opposite. The options

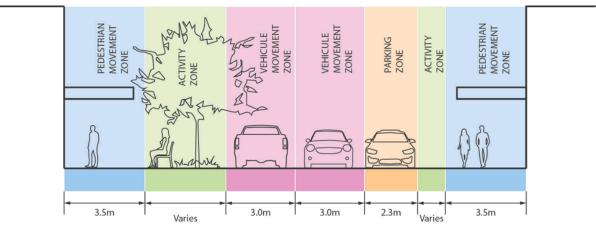
- · Do min with limited change
- · Two-way slow street
- · One-way south shared space
- · One-way north shared space

The business case was agnostic on either of the two-way and one-way options as all three had benefits which were relatively equivalent, there was no clear leading option. The business case did determine that the do minimum which was the limited change option was not favourable.

The business case report was then provided to full council to deliberate over the options on the table. Through the voting process the one-way south option was approved to be taken forward into Developed Design and through to construction.



2 Way Street



Diagrams sourced from the Retail Quarter DBC 2021

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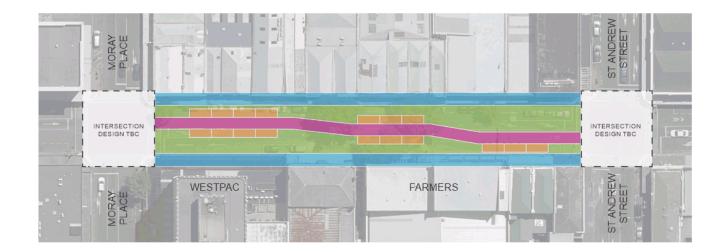
George Street

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Farmers Block examples

DUNEDIN | kaunihera a-rohe o otepoti





George Street

Diagrams sourced from the Retail Quarter DBC 2021





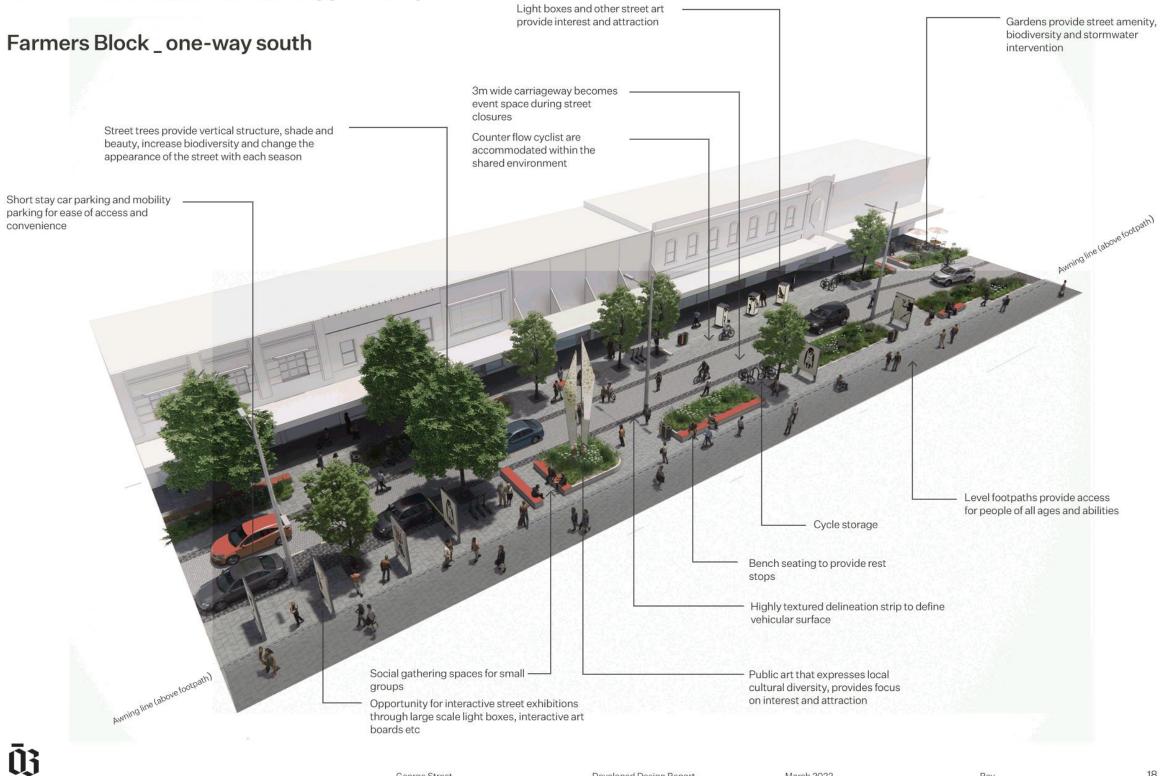


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1.6.1 Detailed business case_approved option



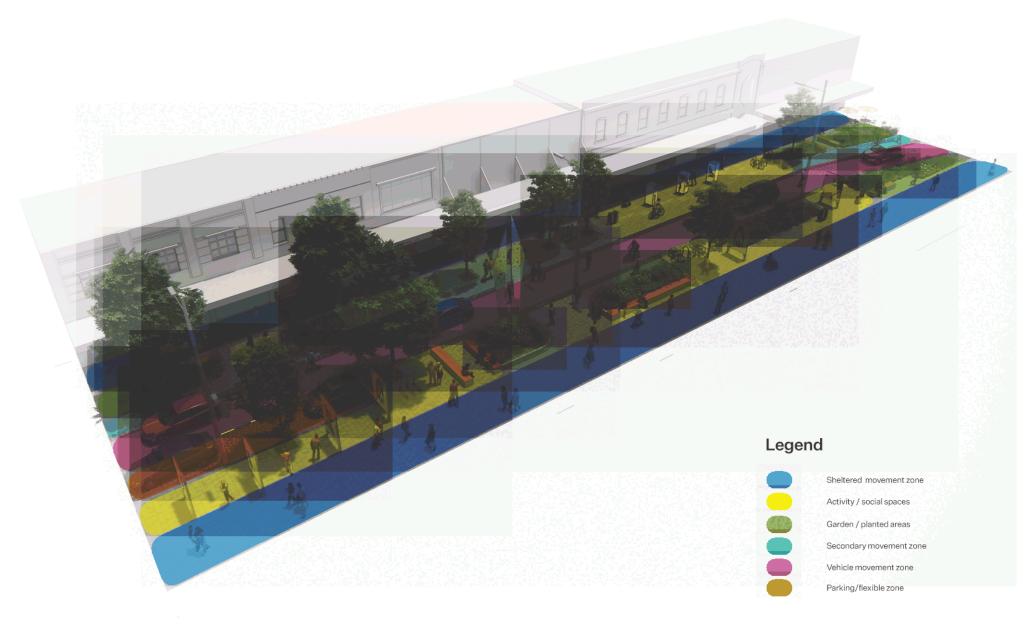
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Farmers Block _ One-way south _ activity map



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Design strategies

2.0

2.1 Introduction

This section of the report outlines the key design strategies for George Street. The design strategies build on previous work undertaken in the Preliminary Design phase of the project providing greater detail and refinement of the street layout and elements.

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George Street Upgrade Developed Design Report March 2022 Rev A 20



Mana whenua design strategies

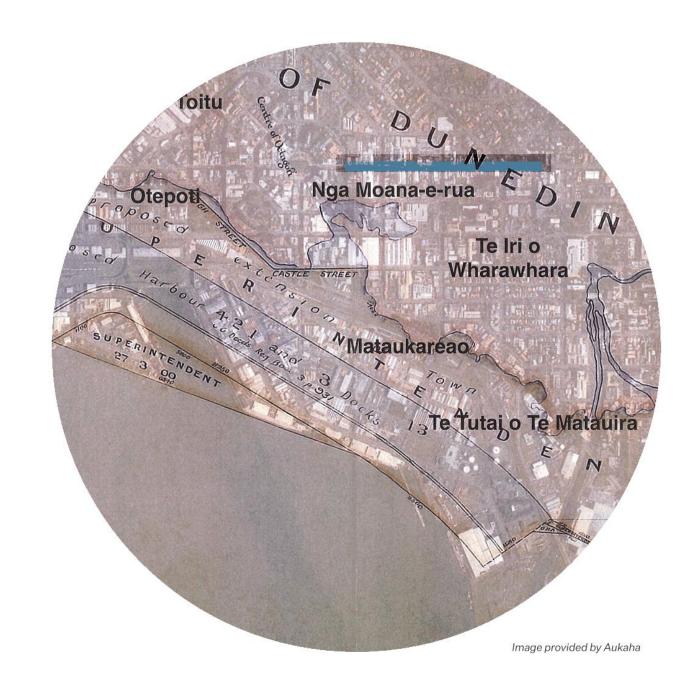
2.2 Revealing whakapapa

The revealing of whakapapa refers to storey telling of both tangata and whenua which have importance for mana whenua in this area. It is about addressing the absence of the physical and visual expression of Ōtepoti for mana whenua in the street today. Revealing whakapapa is a key concept that relates to all mana whenua design strategies.

The text written here is based on the cultural narrative titled 'George Street' prepared by Megan Potiki on behalf of Aukaha (refer to appendix A for cultural narrative). The narrative outlines the whakapapa of George Street and wider central city area from the period of early contact between mana whenua and european settlers to the establishment of the city in its current location.

The map opposite provided by Aukaha illustrates the original shoreline with the key landmarks of Ōtepoti, Mataukareao and Te Tutai o Te Matauira. Superimposed are the successive reclamations into the harbour resulting in the waterfront we see today.

The landscape in the area pre-European settlement was a strong contrast of dense enclosed bush and open estuarine wetlands. The whakapapa of the landscape is expressed and explored through concepts illustrated in the design.



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Design framework

2.2.1 Key narratives

Four key narratives emerged through the Preliminary Design phase which have now been explored in more detail. The diagram on this page identifies these four key narratives, Ōtepoti, Mātauraka, Mahika kai and Kaihaukai and illustrates how each one is related closely to the others.

Ōtepoti is the overarching concept and references the corner of the traditional four cornered kete that it is believed was the origin of the Māori name for Ōtepoti / Dunedin. This project looks at re-establishing the traditional definition of Ōtepoti.

Closely related to this are the ideas of:

- Mātauraka, knowing our stories to gather an authentic and informed knowledge of what has happened in the past
- Mahika kai, the practise of gathering and nurturing resource and food
- · Kaihaukai, the traditional practise of trading and exchanging

Essentially, each one of these values supports the next and vice versa, for example, mātauraka as revealing the traditional stories of Ōtepoti with mahika kai as the gathering and use of natures resource which in turn can be used for kaihaukai (trade and exchange) and further connected to the use of the poti as the traditional basket for trade and exchange of goods.

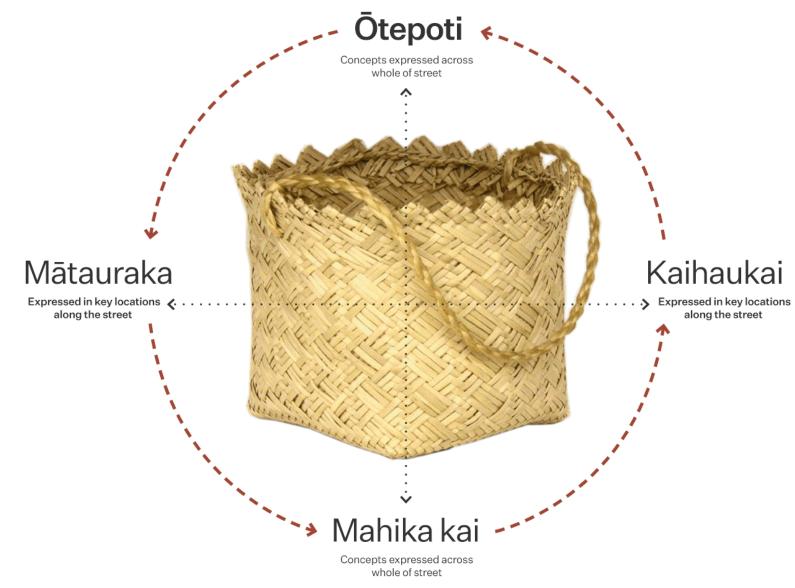


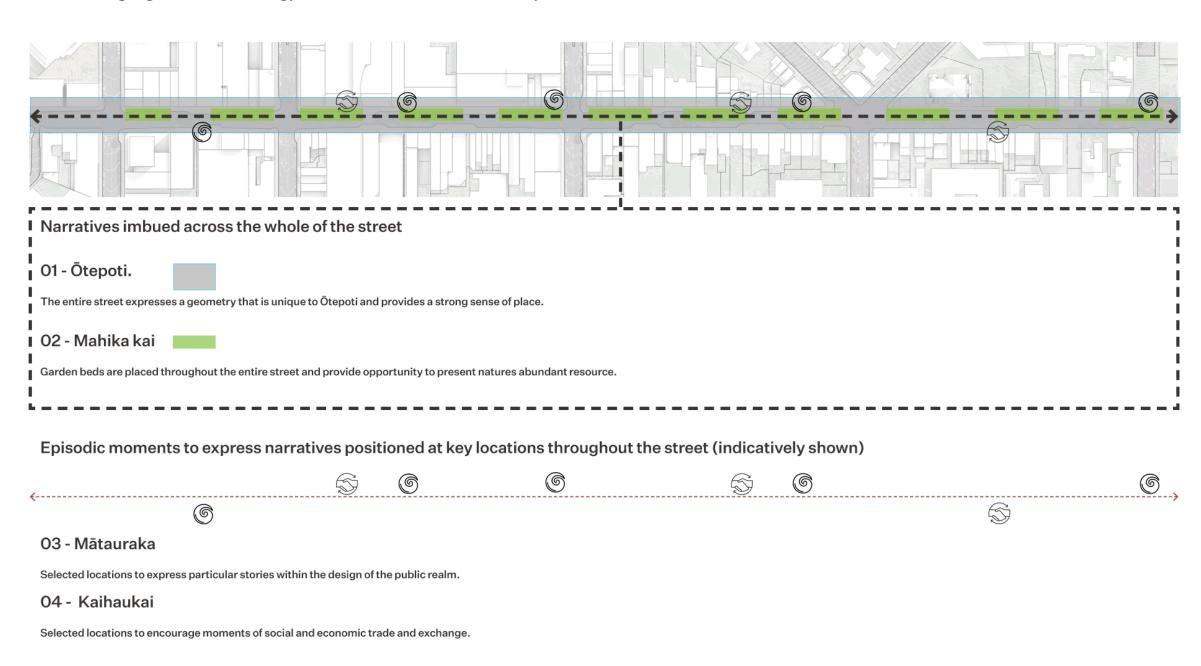
Image provided by Aukaha

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The following organisational strategy informs the distribution of the key narratives across the street.



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George Street

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Ōtepoti

2.2.2 Significance

The meaning of \bar{O} -te-poti is significant here in relation to a number of key Māori histories:

- Landing place of waka
- · Food gathering mahika kai
- The significance of old Māori language
- Maintaining the original place names and reclaiming names.
- The concept of Māori travelling up the Ōtākou awa (harbour) to gather food or exchange food.

The name Ōtepoti itself is an ancient one according to Tahu Pōtiki. He disagreed that it had any meaning related to boats or a port but was in fact the shape of the area that looked like the corner of a Māori woven food basket, known as a poti. This name has a longer history than contact period and European boats.







Images provided by Aukaha

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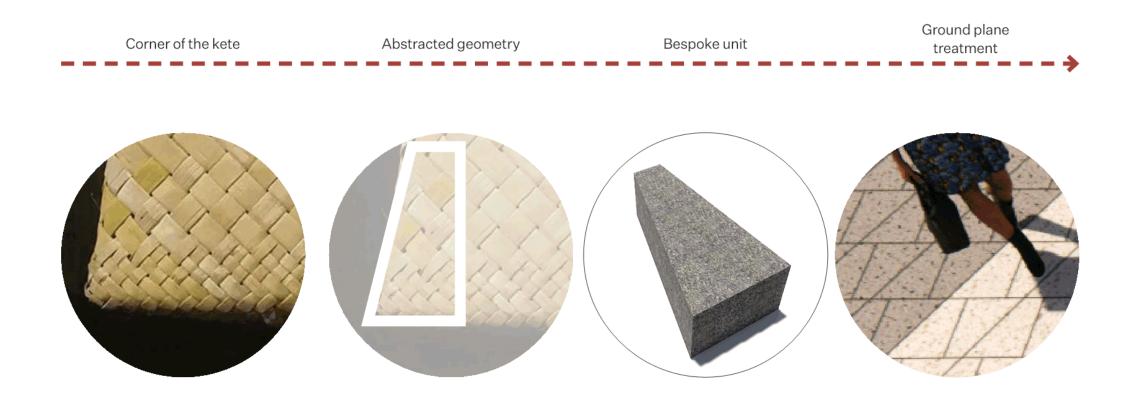
Poti

2.2.3 Informing geometry

The four cornered kete, or poti, is used to drive the geometry of the paving chosen in the ground plane. This surface treatment will be unique and meaningful for Ōtepoti Dunedin.

It is an authentic shape for Ōtepoti and a powerful way of providing a surface treatment that is contextual, meaningful and relates back to the principals of whakapapa.

The diagram opposite shows the evolution of the poti paver from the inspiration of the poti through to the individual paver.



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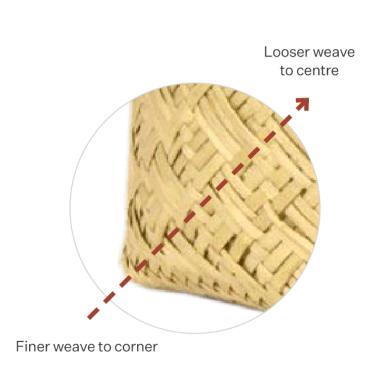


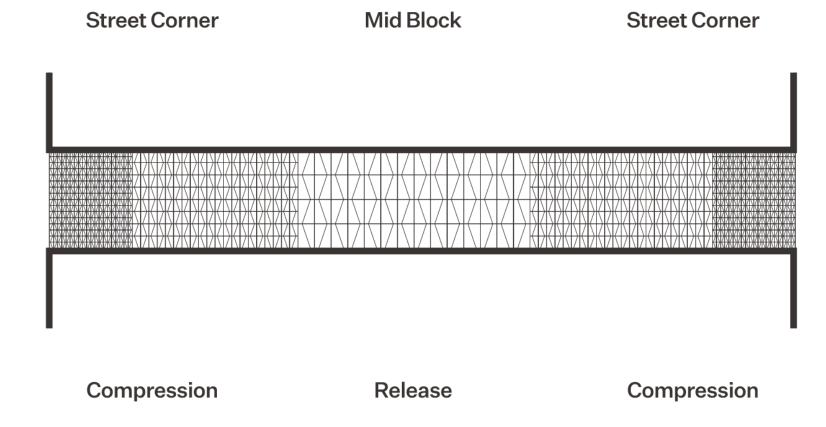
Poti

2.2.4 Grain and scale

The corners of the poti are a critical element in the function and strength of the poti, similar to how the intersections of the city blocks are critical to the strength of the street. The corners hold the kete and have a finer grain with a more complex weave that releases as it moves away from the corner, similar to how a city block works.

The structure of the poti has provided inspiration for the scale and layout of the ground plane and other elements within the street. Compression of form and grain occurs at the street corners and a releasing occurs towards the middle of the block.





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Kaihaukai

2.2.5 Trade and exchange

Streets are public places for everyone. They are the canvas for everyday interaction and life. Therefore they should be laid out to allow for a range of social interactions from small spaces to eat lunch and take a phone call through to larger spaces for hosting events and gatherings of people.

The spaces with George Street are designed to provide a platform for daily human life which enable trade and exchange of not just goods and services but of social interaction and information.

Opportunities:

- Provide a range of opportunities in the design of the public realm that allows urban life to flourish
- Knowledge sharing through interpretive signage and storytelling for example, interpretive signage to inform of values of plants within the
- Provide a range of street furniture or elements that encourage social interaction of varying scales



Spaces for gathering. South Frame. Image source - Jasmax



Interpretive signage. South Frame. Image source - Jasmax



Opportunity to create an urban lounge that provides a venue for social interaction

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Mahika kai

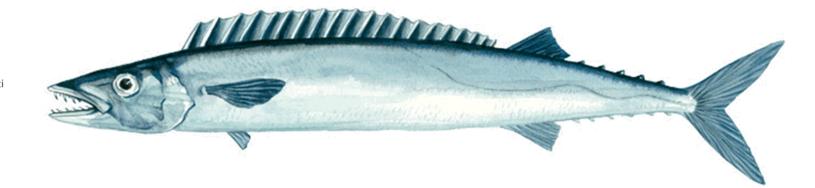
2.2.6 Key species

Nature provides an abundant resource basket for Māori. Early Māori were adept at learning the secrets of natures resources and developed a hard-won knowledge of the native flora and fauna of Ōtepoti which enabled survival and ultimately, the ability to thrive.

The dried form of barracouta was a key trade item during the 1830s and was the most prominent fish supplied to Dunedin's settlers during their lean, early years.

Opportunities:

- Reveal the intimate and respectful relationship with nature
- Express how Te Wao Nui o Tane (the great forest of Tane) provided everything required to sustain life. From being a food market, a source of medicine, a tool shop, a trade centre and a playground all at once
- Consider how natural cycles of plants and fauna reflect the seasons
- Bring native species and particularly species found in and around Ōtepoti into the design of the public realm



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Mahika kai

2.2.7 Colour concept

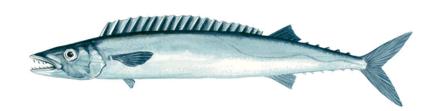
The following colour palette which is used as 'accents' throughout the street has been developed to reflect the natural colours of key mahika kai species as well as providing the connection back to Ōtākou Marae.

Makā / barracouta

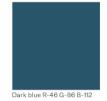
In the past fish sourced around the Ōtepoti coast provided up to 50% of the protein to Maori. The Makā / Barracouta made up around 50% of the catch. Dried barracouta was a key trade commodity in 1830s during early European settlement.

The shimmering silvers of the fish and flashes of blue as it moves through the water provide inspiration for colour accents along the street.

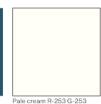
Silver can be incorporated through the use of stainless steel with subtle blues and pale silver whites representing the scales and upper spine of the fish.

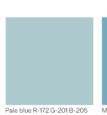






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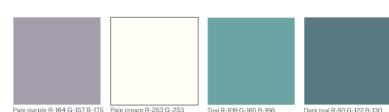


Kererū / NZ wood pigeon

There is a strong desire for Kererū to return in numbers to the peninsula and for native birds to return to the central city. New plantings and wider biodiversity initiatives throughout the emerging new CBD will look to encourage habitat for native birds and insects.

The distinctive green hues of the Kererū along with splashes of pale purple and cream are reflective of the feathers of the bird and can provide inspiration for colour accents along the street.







Ōtākou Red

The red shade seen at the Ōtākou Marae has recently been developed and refined into it's own specific colour specification, known as Ōtākou Red.

Ōtākou Red can be incorporated into the new urban street elements to provide a meaningful link between the Marae on the Peninsula with the central city.





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Mahika kai

2.2.8 Paving patterns

The Pātiki and Aramoana are patterns found in the windows of Ōtākou Marae that represent important mahika kai.

These patterns have been used in the design to drive pattern concepts in the ground plane in terms of paving and surface treatments along the street.







Pātiki pattern in stained glass Image supplied by Aukaha

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Mātauraka

2.2.9 Art works

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The street design considers a number of locations for commissioned artworks to be located.

Mana whenua have expressed a desire for a significant artwork to be commissioned of either an ancestor or event that talks to the whakapapa of place which would be undertaken by a nominated Kāi Tahu artist. The sculpture would be located at the end of the New Edinburgh Way block next to the Frederick Street intersection.

Examples of similar artwork include:

- Ko te Tühono the waharoa designed by Ayesha Green, installed in the Octagon in 2021
- Maori Chief designed by Molly Macalister, 1967, inTāmaki on lower Queen Street
- Kurahaupō/ Te Paepaeroa O Kahukura, Ephraim Russel, 2021<
- Te Wahoroa ki te Ao Maarama , Lonnie Hutchenson, 2013, Pembroke Street, Hamilton

The specifics of the commission are yet to be determined including the artist, the brief and scope and orientation of the works.



Ko te Tūhono, Ayesha Green, Octagon Ōtepoti, 2021



Kurahaupō/ Te Paepaeroa O Kahukura, Ephraim Russel



Maori Chief, Queen street Tāmaki, Molly Macalister, 1967



Te Wahoroa ki te Ao Maarama , Lonnie Hutchenson

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Mātauraka

DUNEDIN | kaunihera a-rohe o otepoti

2.2.10 Whakataukī / quotes

Quotes and whakataukī (proverbs) are being identified by mana whenua as key narratives to be expressed in the design of paving and street furniture as illustrated in the examples opposite.

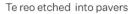
Specific text for George Street will be worked through with mana whenua in the detailed design phase for George Street.

Below is a whakataukī example:

Puritia Tawhia Kia ita Te mana whenua, Te mana tupuna, Te mana takata

Holdfast Steadfast and resolute To the authority on land, to the heritage bestowed, to human right







Whakataukī etched / sand-blasted or cast/ moulded into pre-cast concrete planters

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Mātauraka

2.2.11 Mapping

Drawing inspiration from the Aukaha map a centrally located etching in basalt stone is proposed in the Golden Block. This 'ground map' tells the story of the pre-European shore line, landmarks important to mana whenua, historic reclamation events within the harbour and the street grid of today. The map provides a geographic orientation within the city and connects back to the pre-reclamation shoreline.

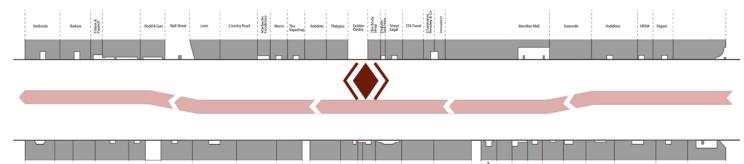
Opportunities.

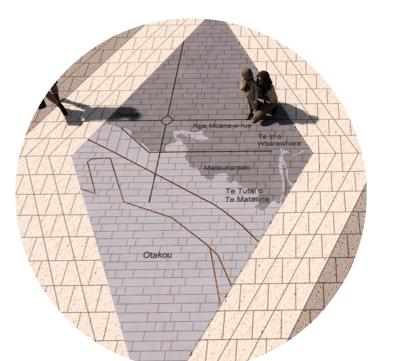
- Acknowledging a Māori world view of the significance of landmarks and the ability to locate ones self within the wider context of the landscape
- Identifies te reo place names
- Consideration of the historic waterfront and coastal features within the design of the contemporary context



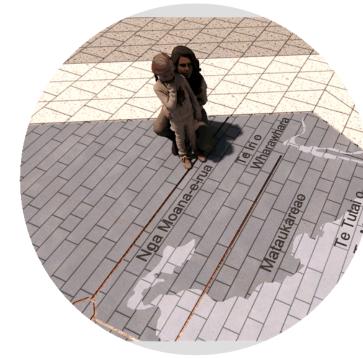
Aukaha map

Location: Golden Block





Mapping to be incorporated into the ground plane



Te reo place name text to be incorporated into the ground plane

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Heritage

2.3 Heritage - hidden in plain sight

George Street contains a richness of heritage buildings and building façades that are significant contributors to the character and sense of place of the Retail Quarter. However very little is commonly known in terms of the narratives, history and whakapapa of these buildings. There is a opportunity to enhance the experience of the street by providing access to these narratives of the George Street heritage.

Hidden in plain sight

This concept refers to the desire to provide a means to access the rich history of buildings and places within the street. It is about exploring the whakapapa of place.

Digital portal (outside this project scope)

It is not practical or desirable to install traditional 'heritage information boards' within the street . Historic buildings and sites are too numerous and this traditional approach would either create significant clutter due to the share number of boards required or not do justice to the richness of heritage along the street.

Therefore the project team recommends that a digital online platform is used to record and provide access to this rich history of place. In this way the information collection can be dynamic, changing and updated over time.

The online resource will be accessed through cues within the street such as QR Codes embedded in pavers adjacent to significant heritage buildings or sites.

Process of accessing the historical information of George Street through and online portal (to be procured separate from the George Street project and would be updated over time)







Online resource

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Place

Item



2.3.1 Framing heritage architecture

Preserving views of Heritage buildings

The diagrams on the following pages identify heritage buildings along George Street. The DCC scheduled heritage buildings and character contributing façades within George Street are highlighted in pink and blue respectfully.

To coordinate street design with heritage buildings, trees will be placed to avoid screening of the façades. In some cases, tree shape, size and placement will be used to frame buildings, entrance ways or to align with the rhythm of the building facade.

Further detail on the locations of trees in relation to the façades is found in section 2.7 of this report. Examples of heritage architecture in George Street:



Knox Church 449 George St



Adams Bruce Ltd. 310 George St

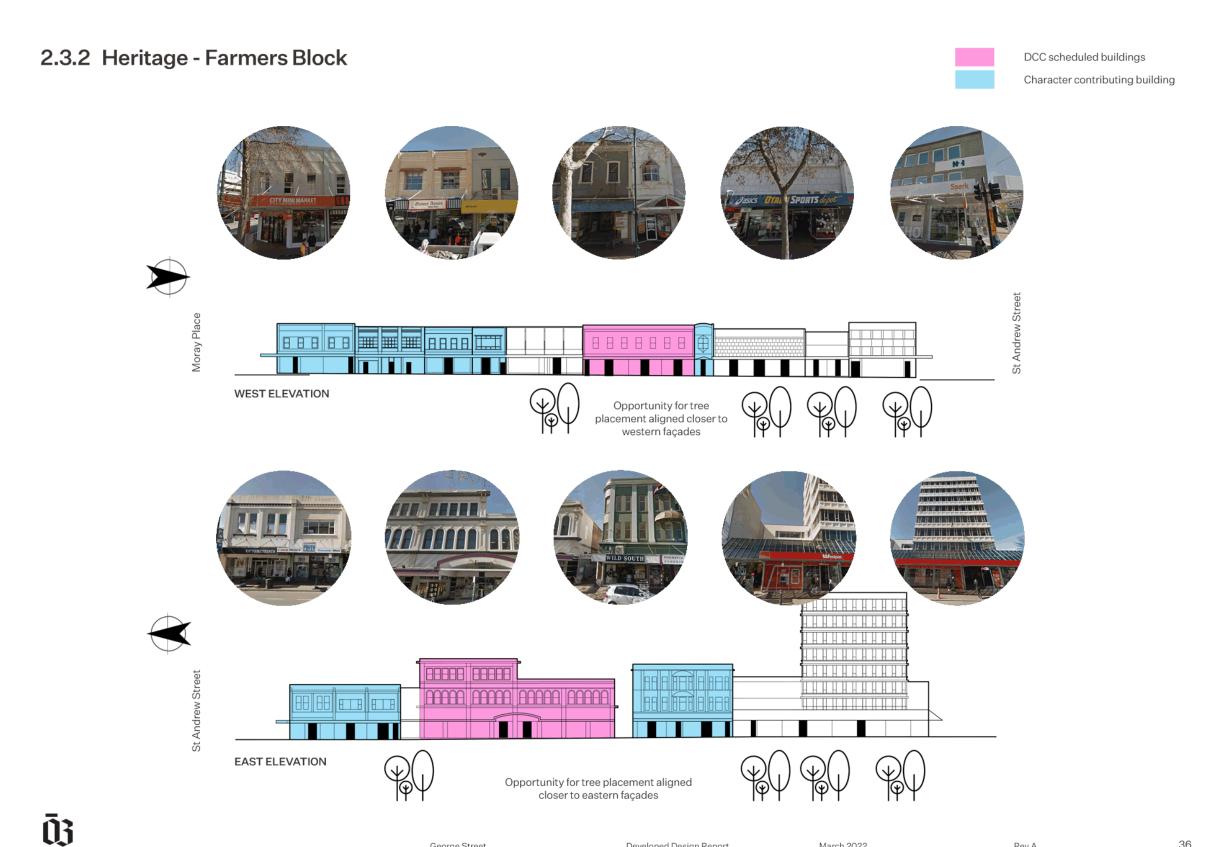


Crown Clothing Co. 392 George St

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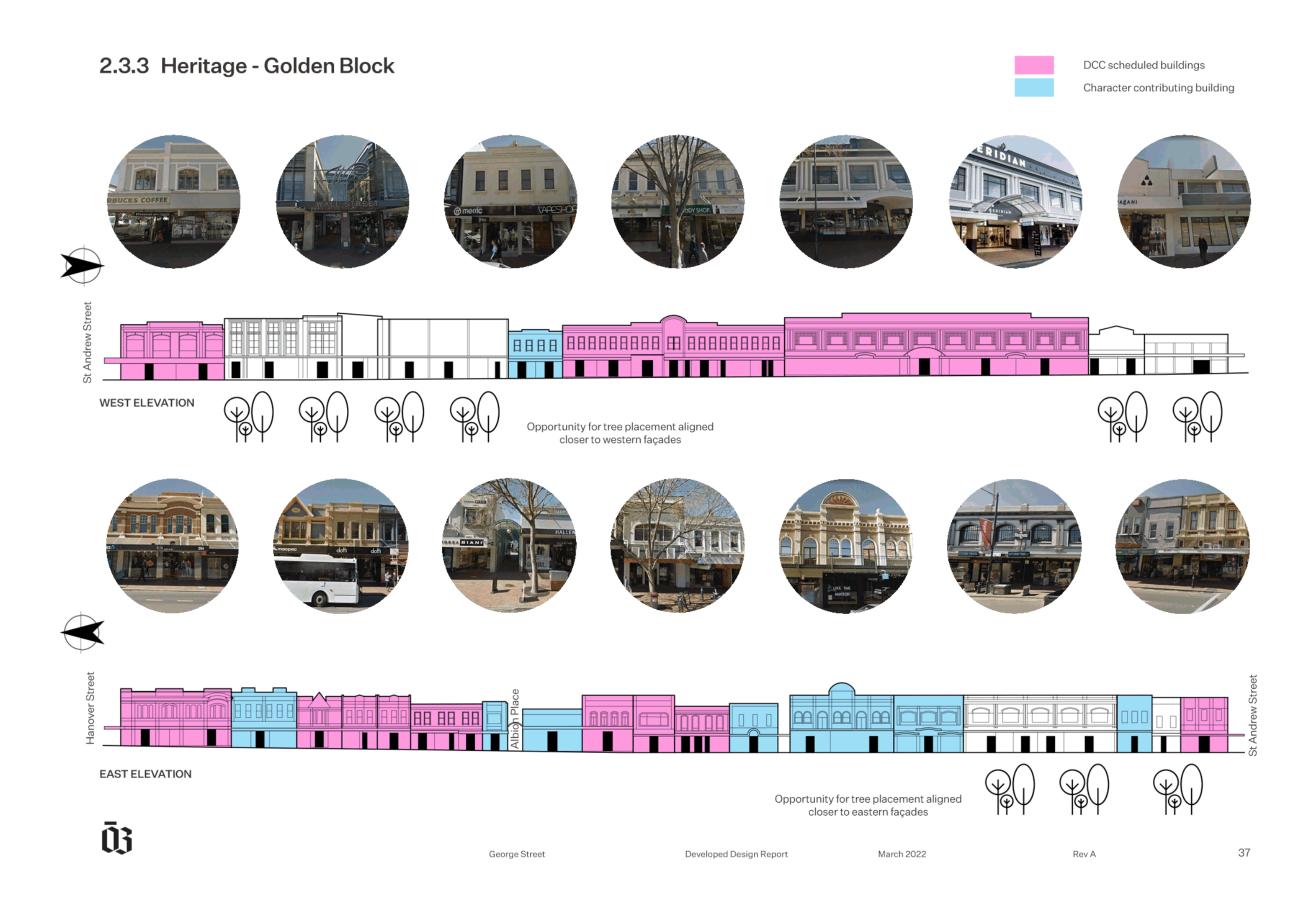
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2.3.4 Heritage - New Edinburgh Way DCC scheduled buildings Character contributing building Hanover Street WEST ELEVATION Opportunity for tree placement aligned closer to western façades EAST ELEVATION

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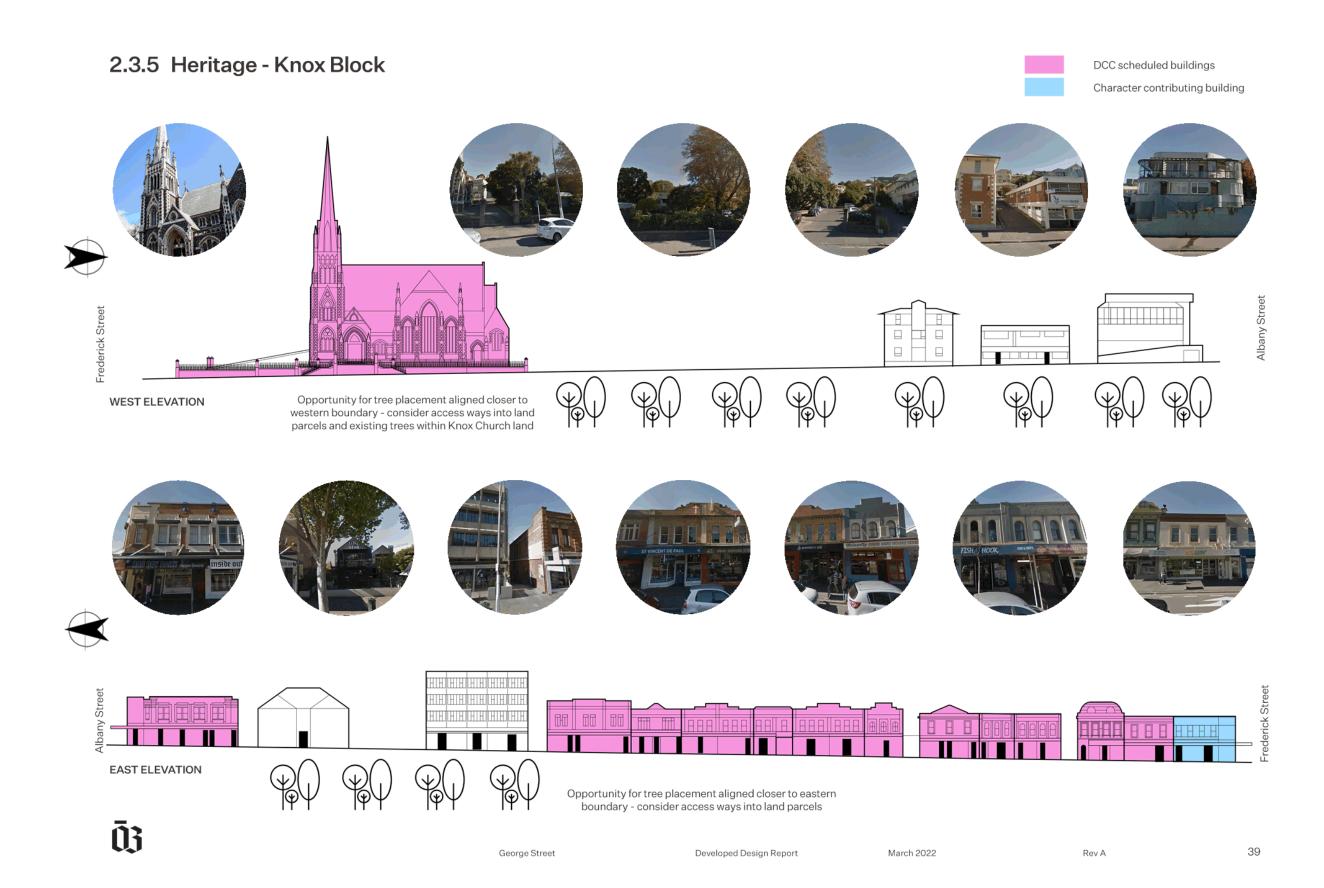
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Opportunity for tree placement aligned closer to eastern façades

George Street





Item



City of Literature

City of Literature

The George Street project provides an ideal opportunity to celebrate Ōtepoti - Dunedin's status as a 'City of Literature'. It is one of 42 cities worldwide that has been given the UNESCO status celebrating the many past and present writers and poets.

The George Street city of literature strategy is to provide text passages, words and phrases from important writers such as Janet Frame and Hone Tūwhare within the street. Below are some examples of potential text that have been nominated as inspiration and which could be etched into the ground plane, planter walls and street furniture. Specific text will be worked through with DCC in the detailed design phase for George Street.



"Once upon a time (and it happens to this day) there was Late Night in the city, or Friday Night Shopping. On Late Nights the streets and shops, as you know are filled with people hurrying and scurrying and buying things. In the middle of one city stood a large store which was crowded with people every Friday night; for it sold everything, or nearly everything – soap and peppermint cushions and handkerchiefs and electric light bulbs and clothes and skeins of wool and dahlia seeds. One night when so many people were trampling and shoving over the floor, one of the floorboards said in floor-language, 'Squirk', which meant 'Oh dear. Oh dear'."

"oystercatchers by night, above Knox Church, cluck and chuckle, flying seawards."

"I walked the City last night stopping to take everything in:

And the City seemed the same lovely woman I used to know grown somewhat more ample more assured with new baubles on display"

Janet Frame

(from 'The Friday Night World', Gorse is Not People, Janet Frame, Penguin Books, 2012)

David Eggleton

(from 'Dada Dunedin' Time of the Icebergs, David Eggleton, Otago University Press, 2010)

Hone Tüwhare

(from 'Prodigal City', Deep River Talk, Hone Tuwhare, Godwit Press 1993)

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Movement and parking

2.5 Movement and parking

Council approved the one-way south option in September 2021 which is the basis for the design. The one-way portion of the design connects Frederick Street and Moray Place. The 'Knox Block' remains a two way as it provides bus routes into the central city bus hub on Great King Street. Parking numbers are generally similar to existing numbers however the time restrictions have shortened overall to allow more turnover and better access to retail business.

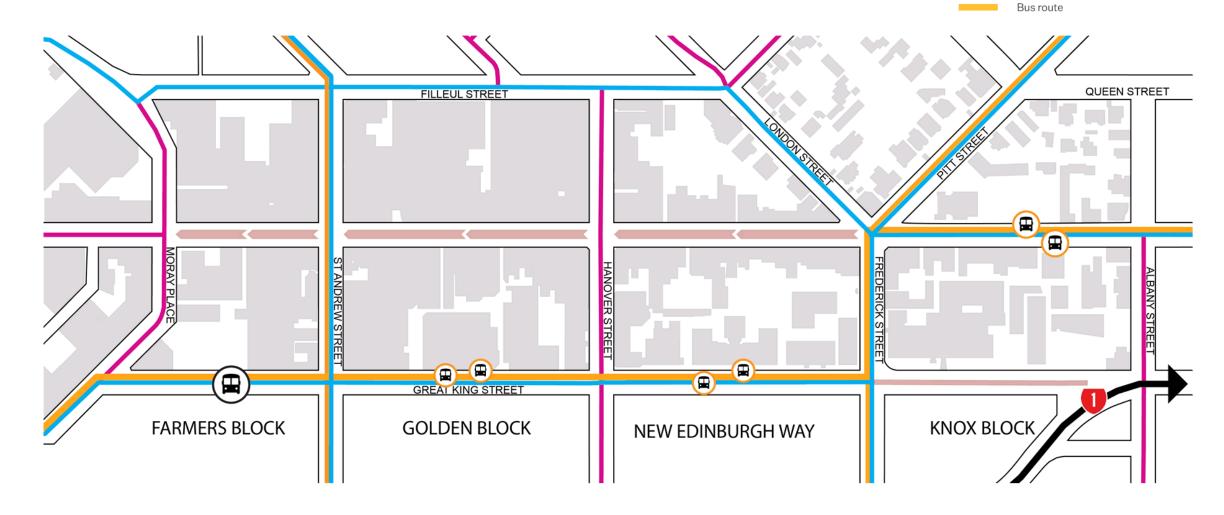
At least two mobility parking spaces are provided in each block and in the case for the Golden Block four mobility parking spaces are provided. This is a significant increase from the existing limited spaces currently along the entire length of the street. The following pages illustrate the location of each space within the blocks of George Street.

Primary

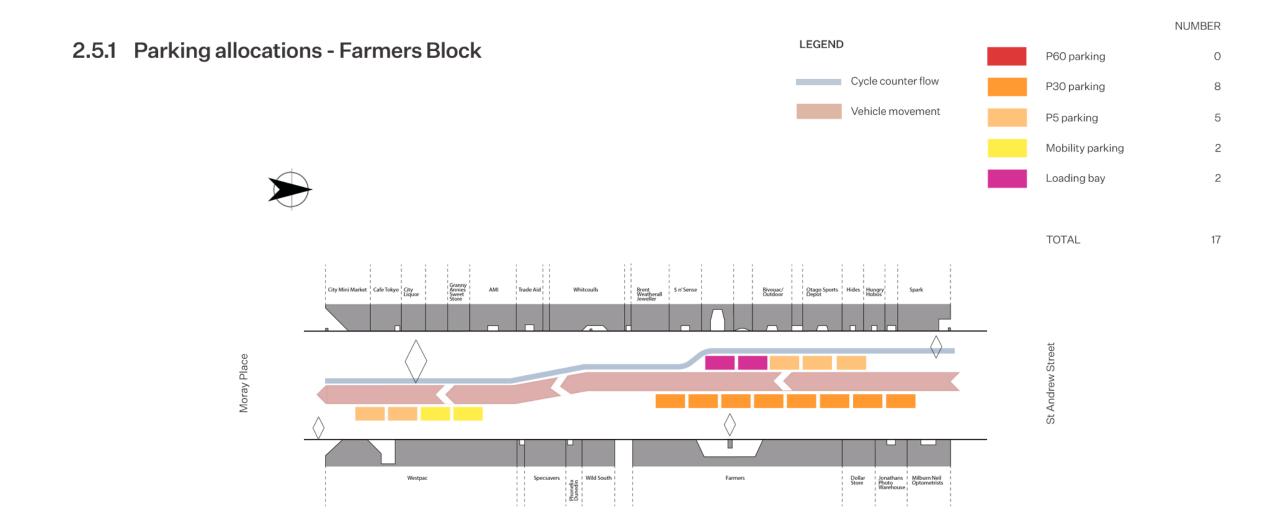
Secondary

Tertiary

Fourth

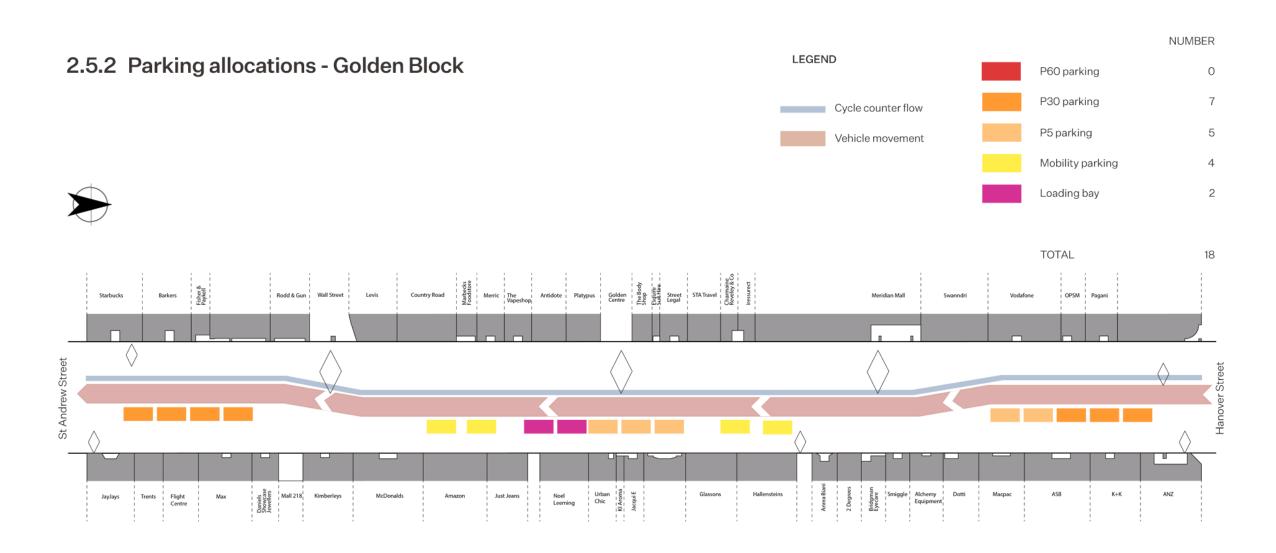


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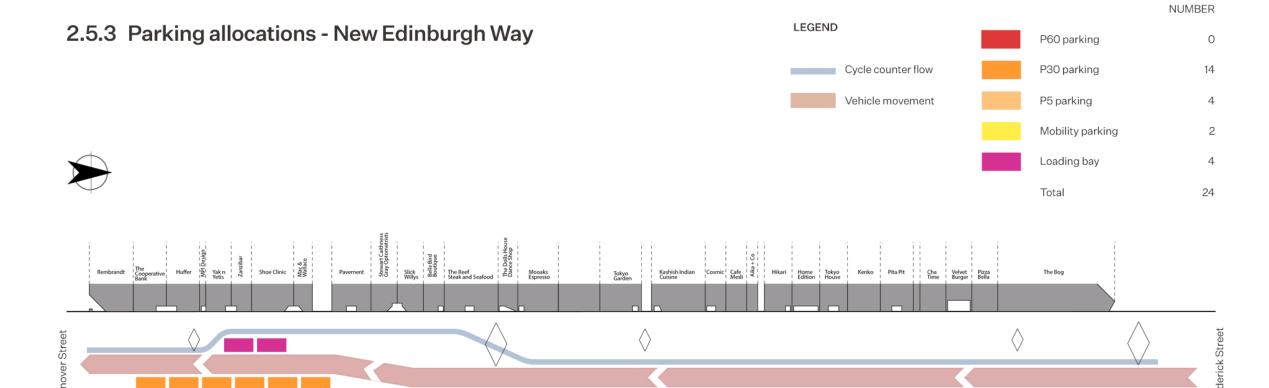


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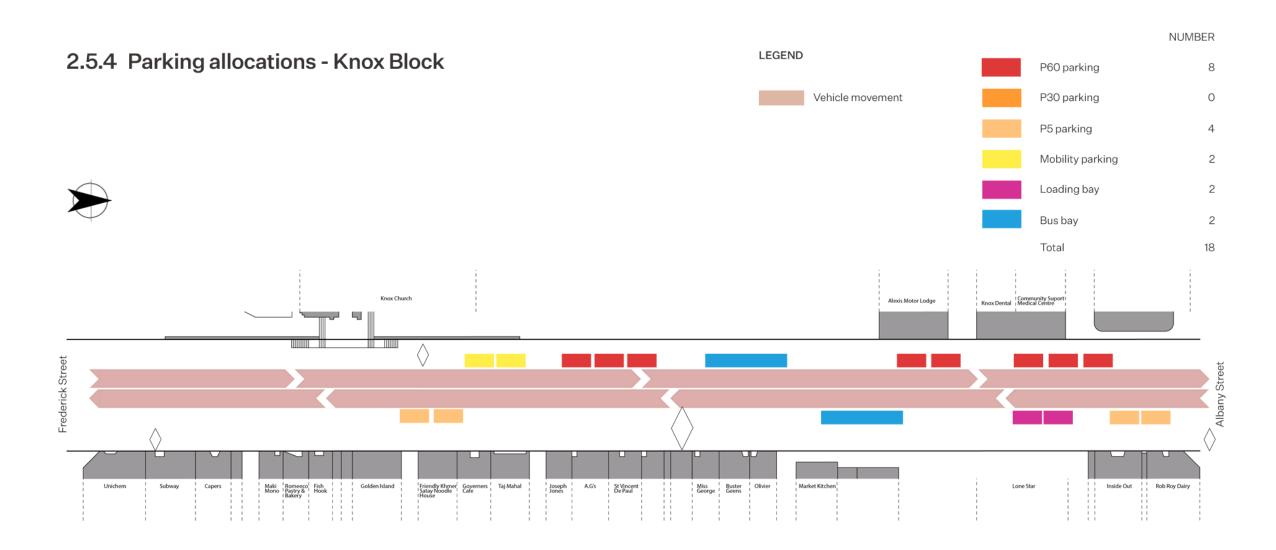
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Materials

DUNEDIN | kaunihera a-rohe o Otepoti

Materials selection criteria

Materials both surface treatments and street furniture have been selected based on the following criteria:

Cost - Selection of materials and construction methods that are within project budgets.

Carbon emissions - Selecting products and suppliers that have sustainability and processes that reduce carbon emissions. This goes hand in hand with sourcing material locally to reduce carbon emissions in transportation.

Whole of life costs - Ongoing costs to maintain and operate streetscapes throughout their lifespan.

Maintenance - Selecting products that are easy for DCC to maintain (and source) into the future.

Local - Ideally, materials will be sourced locally to the Otago region and $\ensuremath{\mathsf{NZ}}$ although with the understanding that some specialty products may need to be imported.

Appearance - Selected materials need to be attractive and respond to local context. Surface finishes should perform in accordance with the local conditions, be slip resistant, and able to withstand expected

Function - Ensuring surface finishes perform in accordance with the local conditions. Be slip resistant and able to handle the expected loading put



Cost



Carbon emissions



Whole of life costs



Maintenance



Local



Appearance



Function



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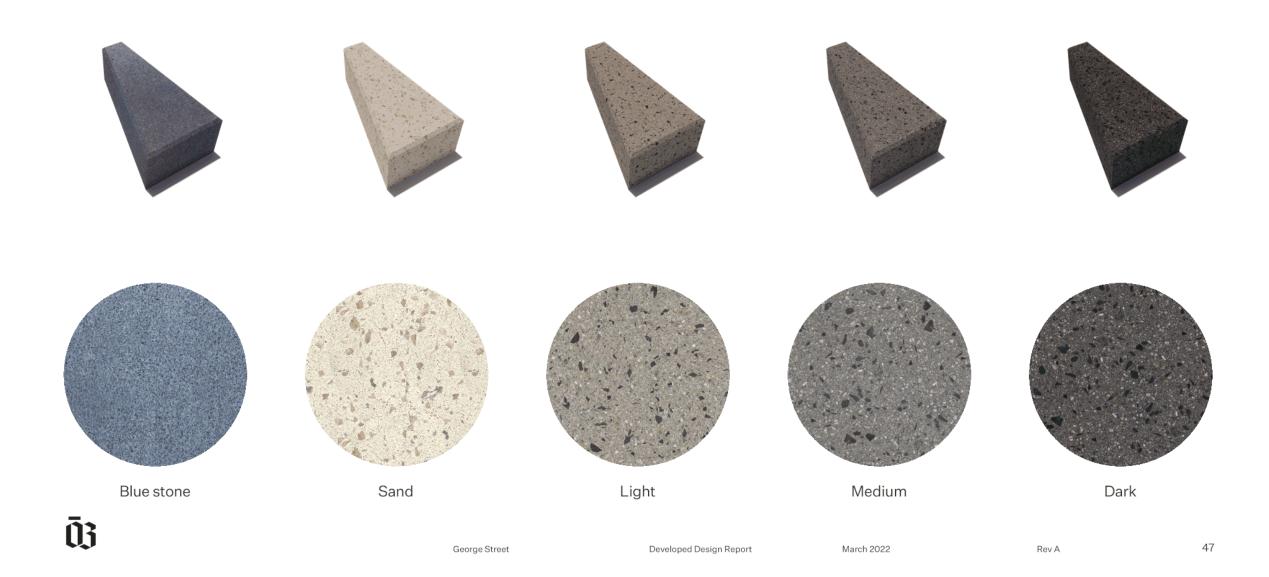
George Street

Paving

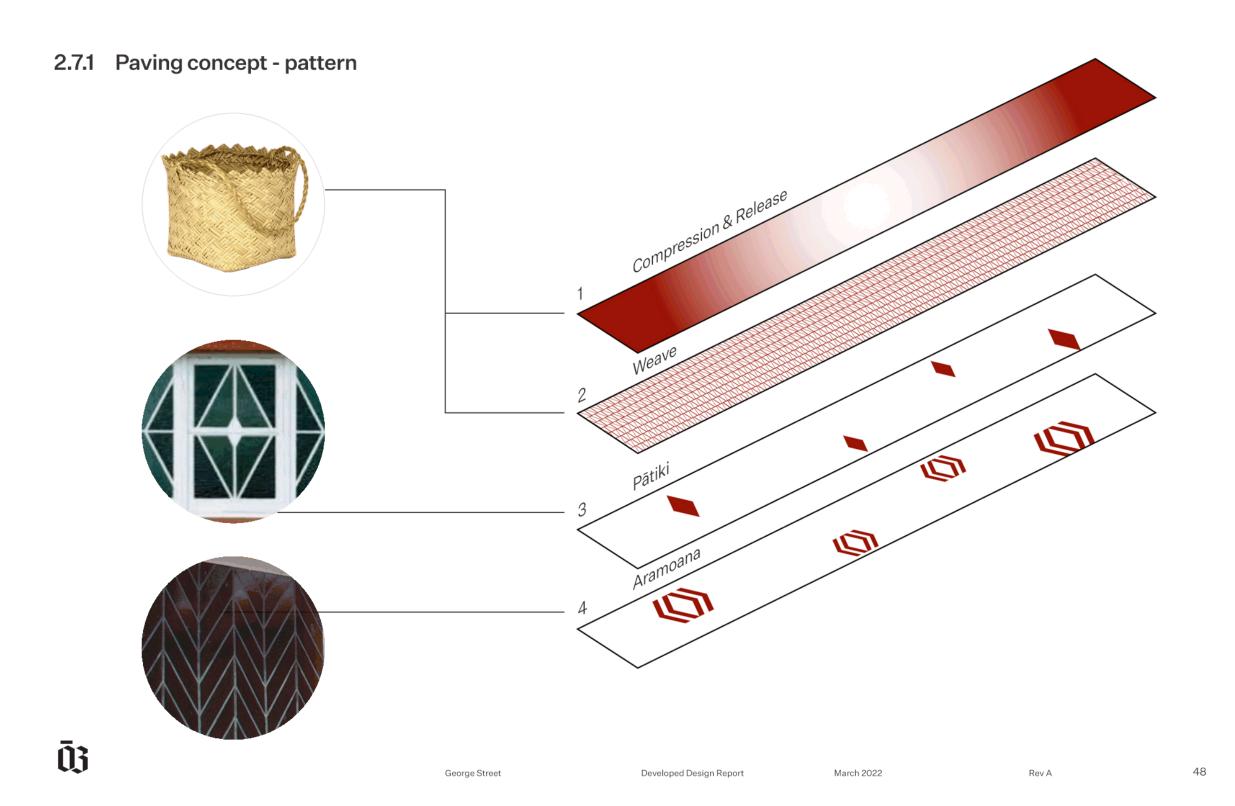
DUNEDIN | kaunihera a-rohe o otepoti

A bespoke paving unit has been developed for George Street. It is intended to be used throughout the central city. The paving has been developed with input from mana whenua and is representative of the corner of the poti (kete). As discussed in section 2.2.4 of this report the authentic shape of the paver for Ōtepoti is a powerful way of providing a surface treatment that is contextual, meaningful and relates back to the principal of whakapapa.

Paving concept - Unit paver



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2.7.2 Paving concept - pattern



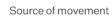
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2.7.3 Paving concept - pātiki setting the movement within the pattern

Deconstruction of pattern moving away from pātiki sets up a repeating rhythm along the street







The rippling effect emanating from the pātiki



Movement dissipating into the still water

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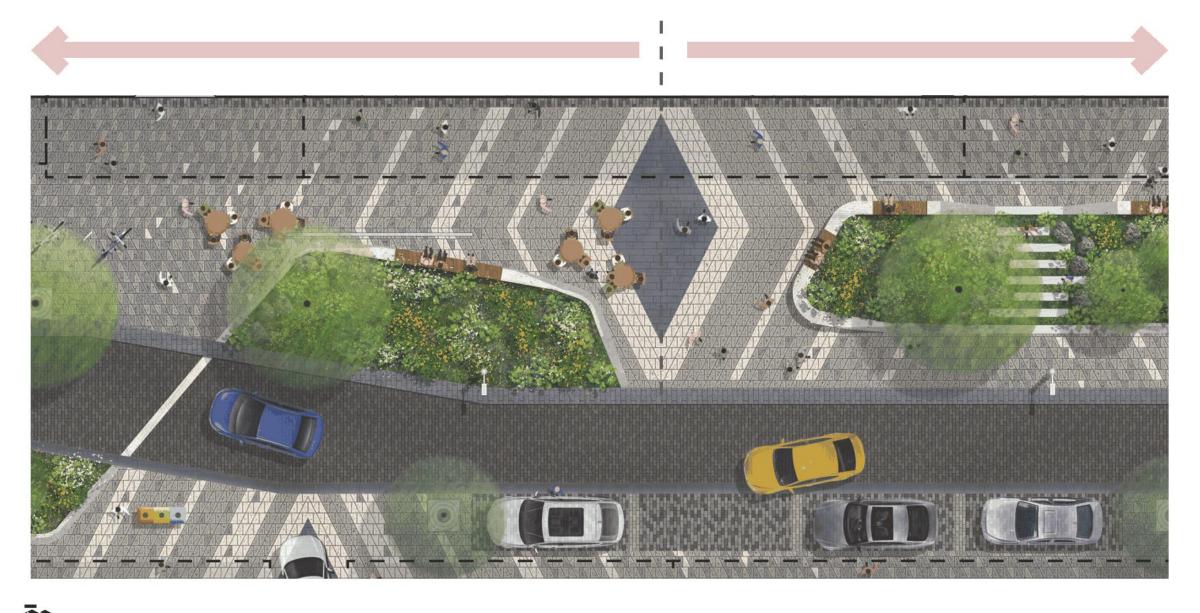
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2.7.4 Paving concept - pattern street view



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Furniture

2.8 Components

The following pages identify the type, location and quantum of street furniture proposed throughout the street. In general street furniture can be classified into four main groups, cycle racks, rubbish and recycling bins, seating areas and drinking fountains (see chapter 5 of this report for specific furniture elements proposed).

The lighting strategy is covered in the separate section 2.10.



Cycle racks

Cycle rack are provided in convenient locations that do not disrupt pedestrian areas within each block. They are placed both centrally within the street adjacent to movement zones and at the junctions of east west streets. The capacity of each cycle rack area is 6-10 cycles.



Rubbish & recycling bins

Rubbish and recycling bins 'multi bins' are strategically located along the street based on need and convenience. Extra bins are located in areas that are anticipated to generate higher waste.



Seating areas

Seating is provided in abundance along the street with a variety of types and uses. This will include seats with arm and back rests. Bench seating integrated on top of planter walls and large platform seating for groups of people.



Drinking fountains

Access to water is important and will be provided in each block. Water fountains are located in high use areas where a mixture of movement along the street and seating areas are provided.



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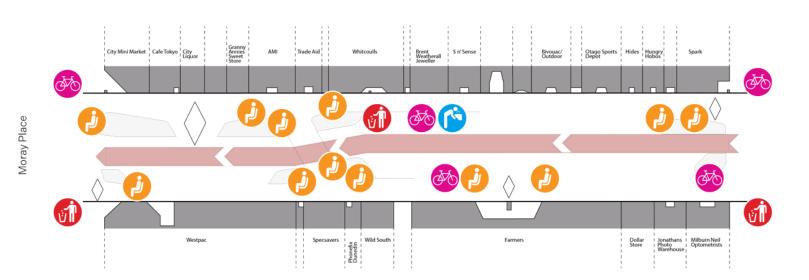


2.8.1 Furniture distribution - Farmers Block

LEGEND

₽ Ø	Cycle racks	5
VII	Rubbish bins	3
L	Seating areas	12
	Drinking fountain	1





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2.8.2 Furniture distribution- Golden Block NUMBER Oycle racks 4 Rubbish bins 4 Seating areas 24 Drinking fountain 2

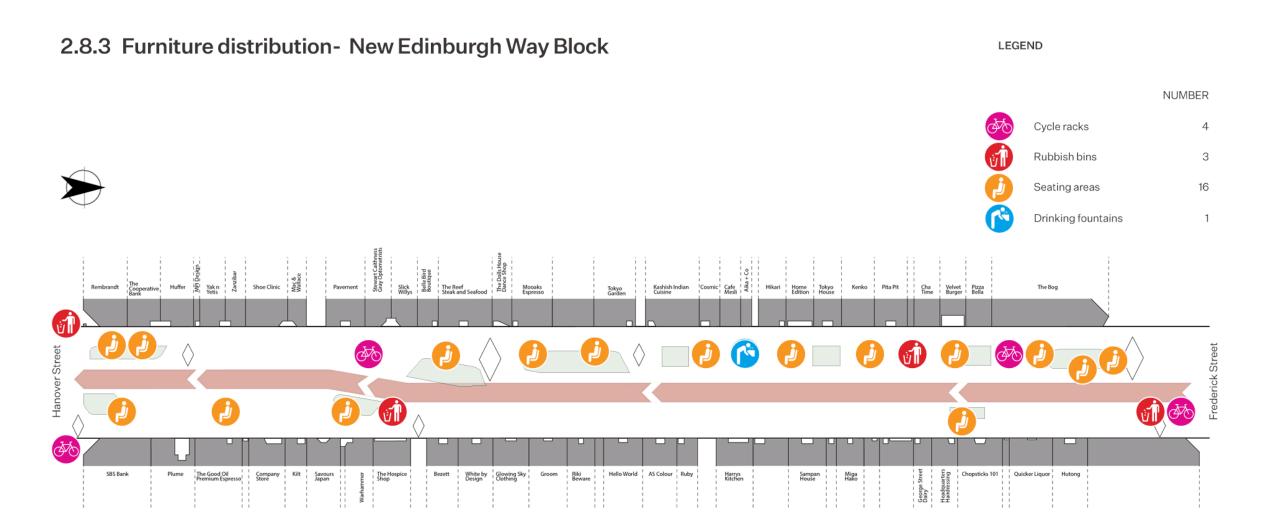
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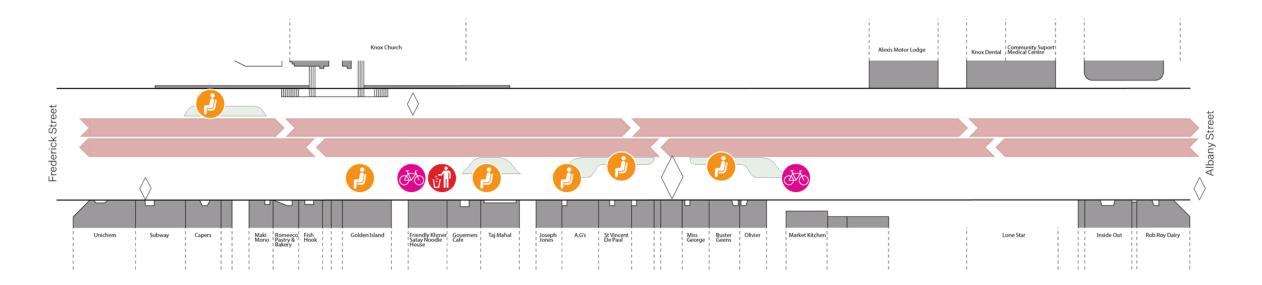
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Rev A

2.8.4 Furniture distribution- Knox Block

		NUMBER
₽ Ø	Cycle racks	2
الن	Rubbish bins	1
	Seating areas	6
	Drinking fountain	0





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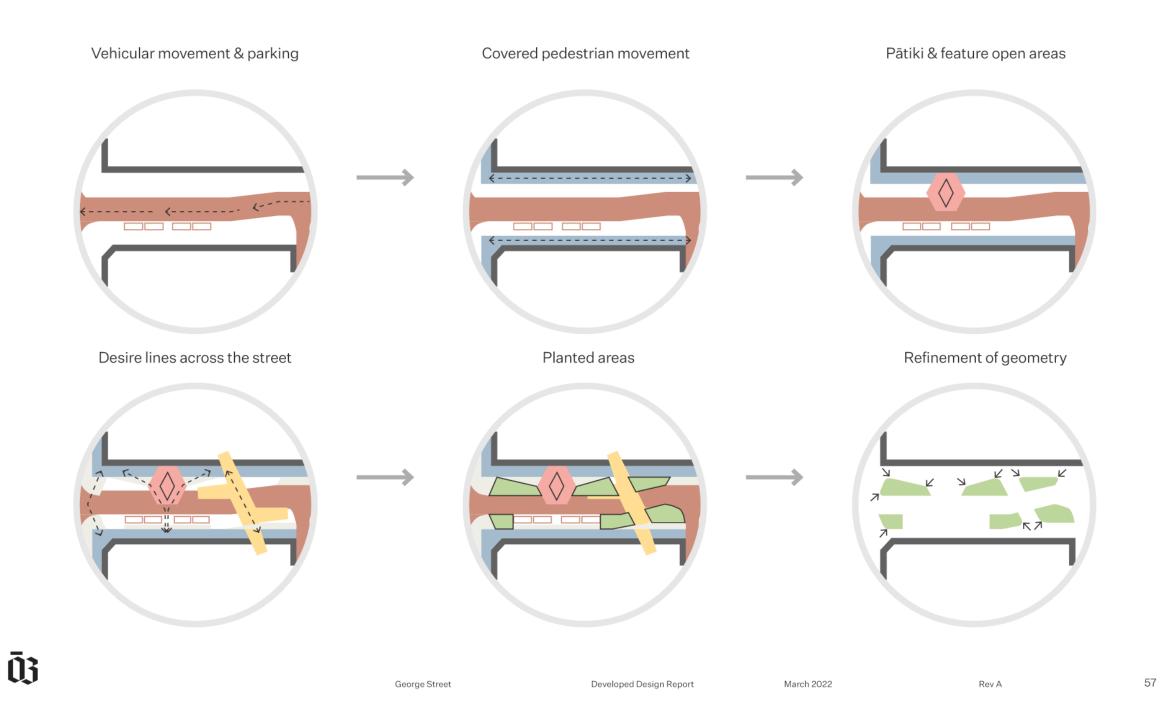
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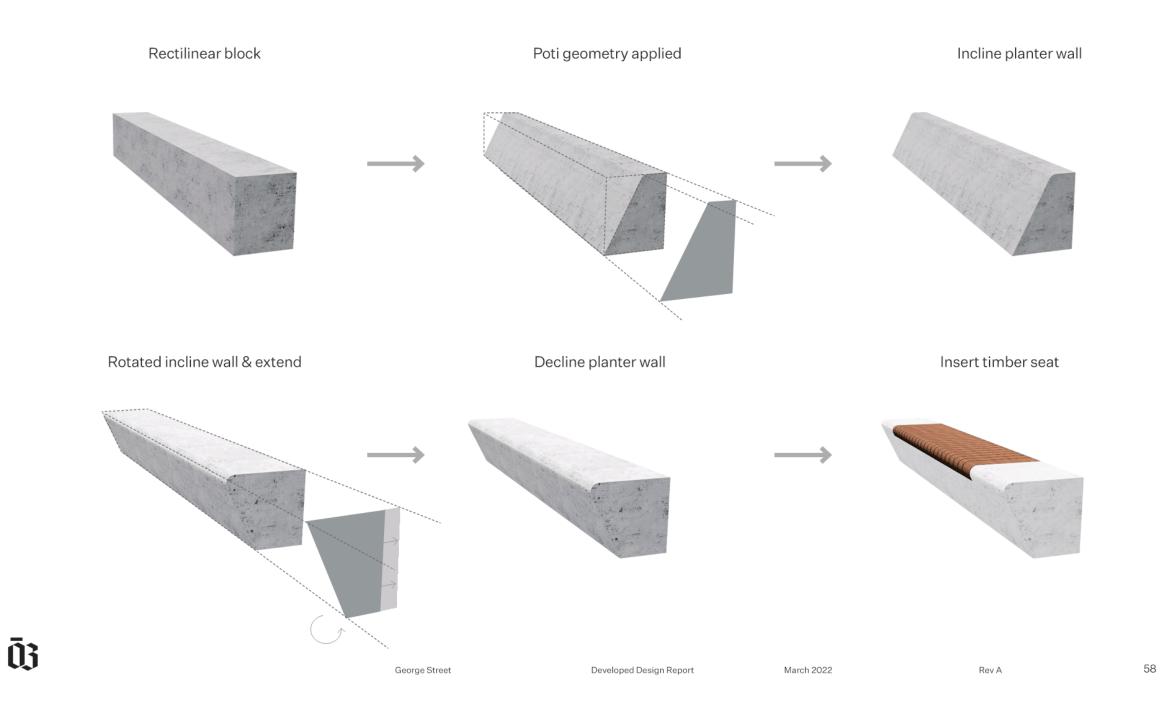


2.8.5 Planter bed geometry -informing layout / carving out space





2.8.6 Planter bed geometry-informing components



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2.8.7 Planter bed geometry examples

Raised garden



Transition garden (raised to flush with internal crossing)



Flush garden



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Planting

Planting

The three key objectives for the planting are to:

- 1. Create a verdant "Green Street" that is full of life
- 2. Provide planting that reflects the natural and cultural heritage of Ōtepoti
- 3. Arrange the planting so that they frame and enhance the architectural heritage of George Street

In order to achieve these objectives we need to:

- Use plants that connect the town belt with George Street, to attract birds and insects
- Arrange clusters of various sized and shaped planting beds and trees, to create an overall appearance of a verdant "Green Street"
- · Use locally sourced native plants that reinforce local ecology, sense of place and are resilient to local conditions
- Employ ecosystem services to treat stormwater, prior to entering the ground water and harbour
- Employ a diverse palette of tree shapes and sizes to align with immediate context (architectural heritage and the grain of the built form) and to produce seasonal interest
- Augment plantings with non-local species that enhance the visual appearance of plantings, so that they can be enjoyed by everyone
- Employ a methodology that is suited to urban plantings; enabling fast close out, robust and low maintenance species and arrangements that won't interfere with sight-lines, services or pavements



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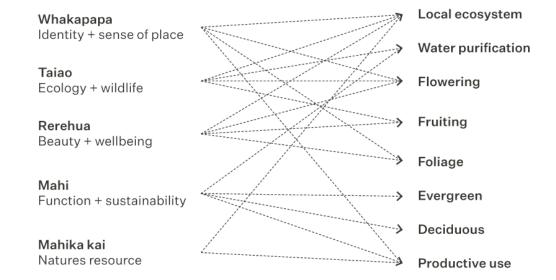
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2.9.1 Planting - strategy

Ecosystem services are widely defined as the benefits that nature provides humans. Various planting attributes will be designed with to provide ecosystem services, which are aligned with the Kāi Tahu values and project objectives.

Ecosystem services



Planting attributes



Local ecosystem

Plants native to the Dunedin ecosystem will reflect local identity, have traditional uses for Māori and Kāi Tahu, be resilient to the environmental conditions and provide natural habitats for native wildlife.



Water purification

Use specific plants in rain gardens that function to polish the water from the pavements, prior to releasing into the groundwater and harbour.



Flowering

Use a variety of flowering plants to add beauty and vibrancy along the streets. Express seasonal change and provide for plant pollination, habitats and food sources for birds and



Planting attributes

Berries and seeds

Encourage wildlife corridors to form with the town belt, pulling nature through the city by using some fruit and seed producing plants, which birds and insects will flourish upon.



Foliage

Use a range of different shaped and textured plants to compose interesting and appealing garden mixes, creating variety along the



Evergreen

A high proportion of evergreen plants will ensure a full foliage cover all year round.



Deciduous

Locate deciduous trees to maximise urban comfort by providing summer shade and winter sun. Choreograph the timing of autumn leaves for a prolonged seasonal display



Productive use

Include plants that provide mahika kai and rokoa values, for uses such as food, craft and medicine.

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2.9.2 Planting - concept

A 'seasonal symphony'

The drama of each season can be related to the four movements of a symphony. The planting concept for the Retail Quarter will carefully select plants and combine them in mixes to create a choreographed dance and display of flowering, fruiting and coloured foliage. This will provide a continual change throughout the year and along the streets. Like a backdrop, a high proportion of evergreen plants will ensure a permanent planting presence.

The planting selections will consider each plants temporal cycles to prolong and emphasise the effect of each season. This will provide an abundance of ecological habitats and corridors for birds and insects, productive value for people to engage with and a healthy, verdant 'Green Street' that is full of life.

LEGEND

Plant activity

Human and wildlife activity

Flowering

Productive

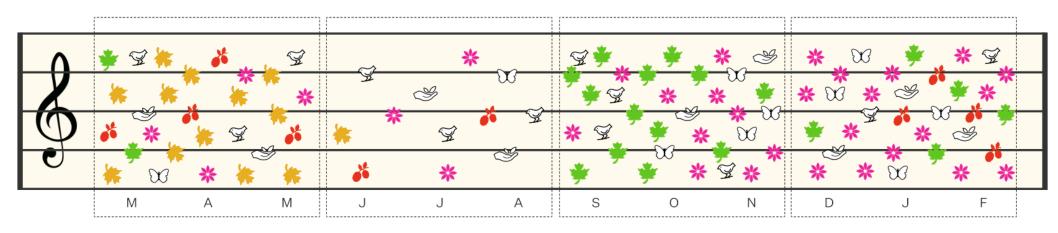


Birds









Movement 1: Autumn Allegro: Brisk and lively

Movement 2: Winter
Adagio: Slow and lyrical

Movement 3: Spring
Minuet/scherzo: Dancy

Movement 4: Summer Rondo: Rollicking







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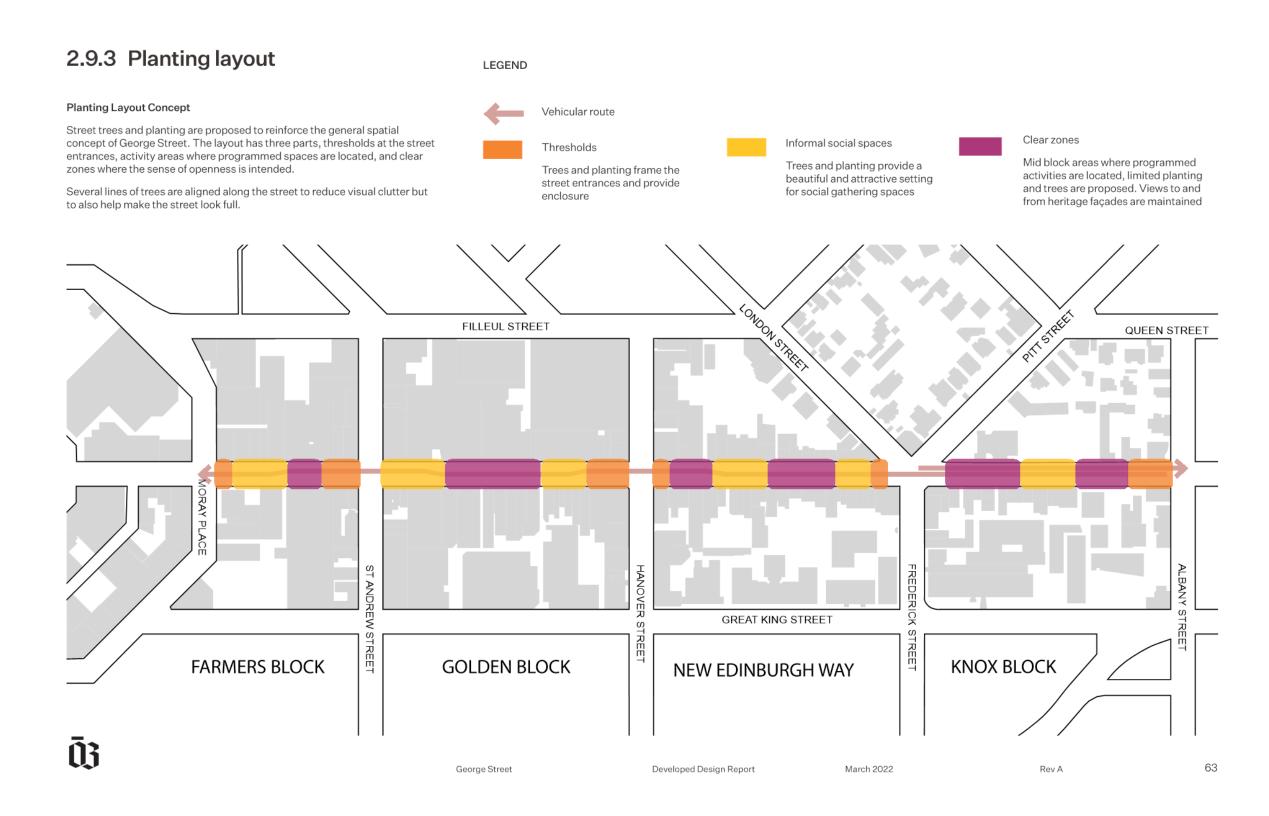
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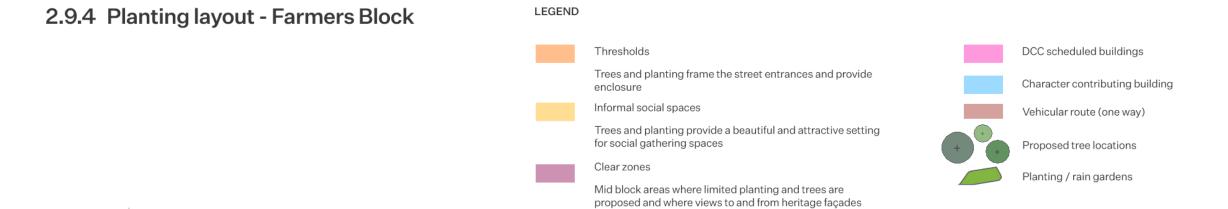
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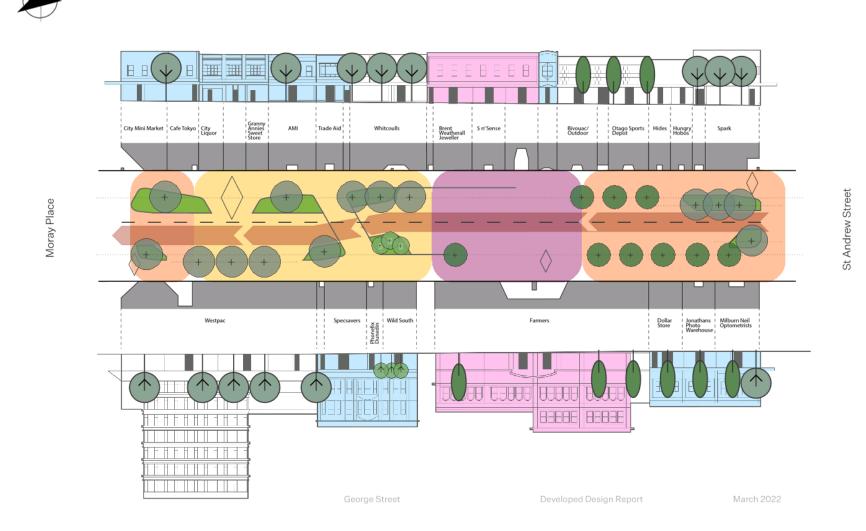








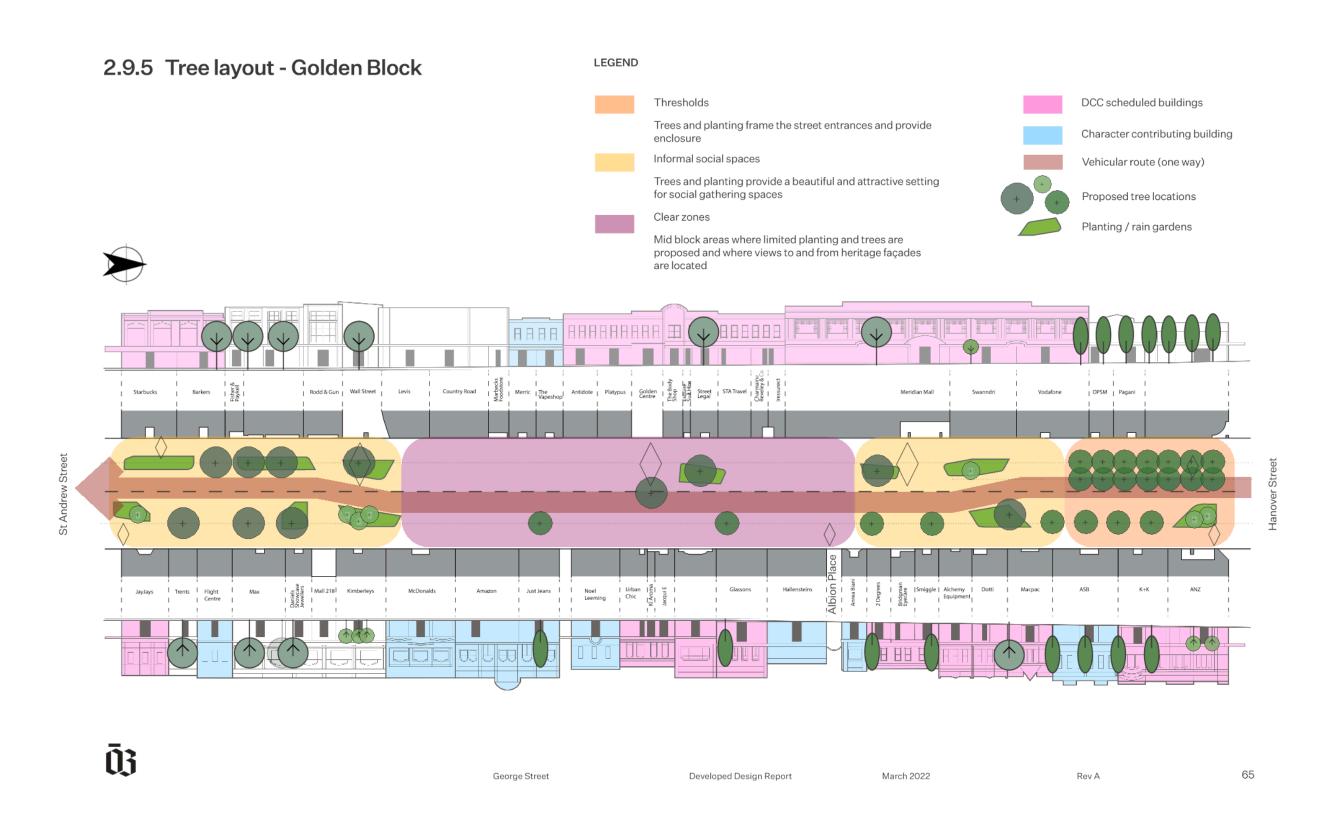
are located



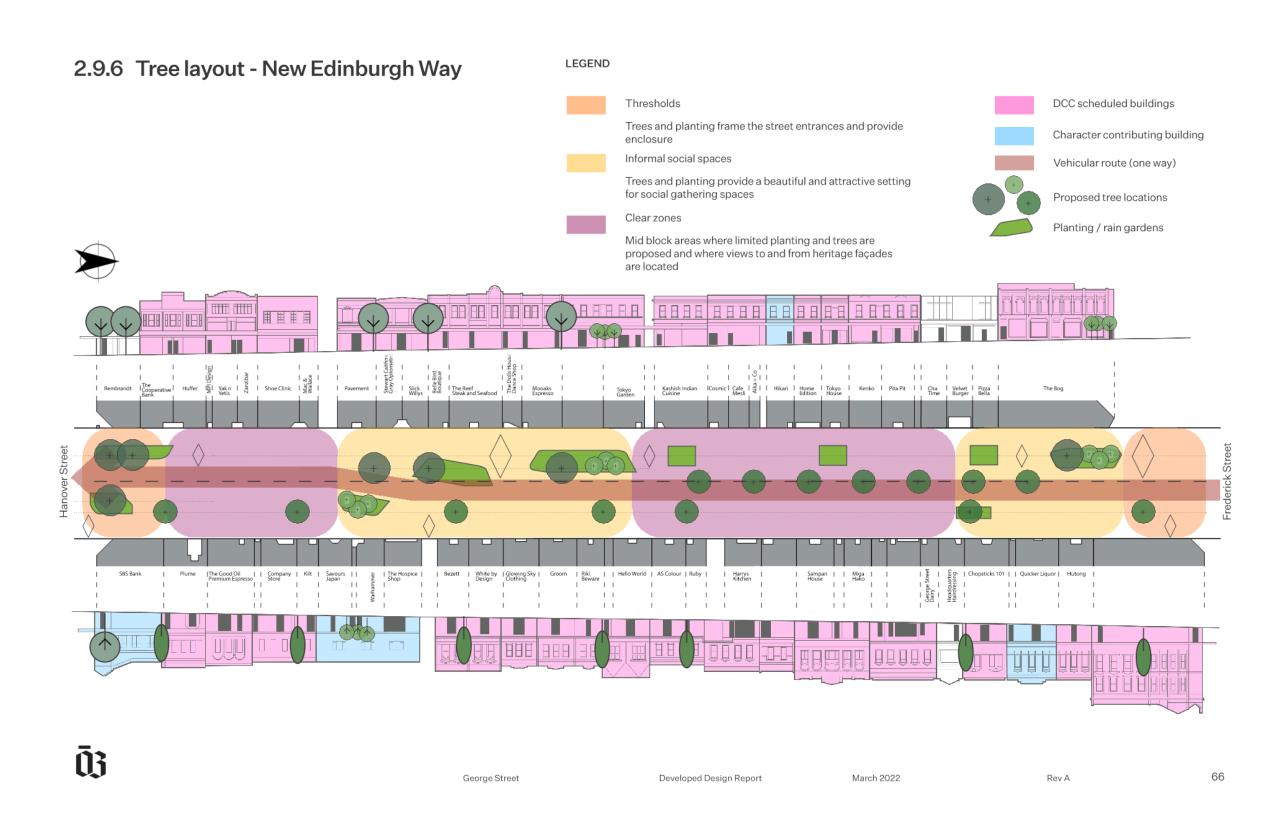
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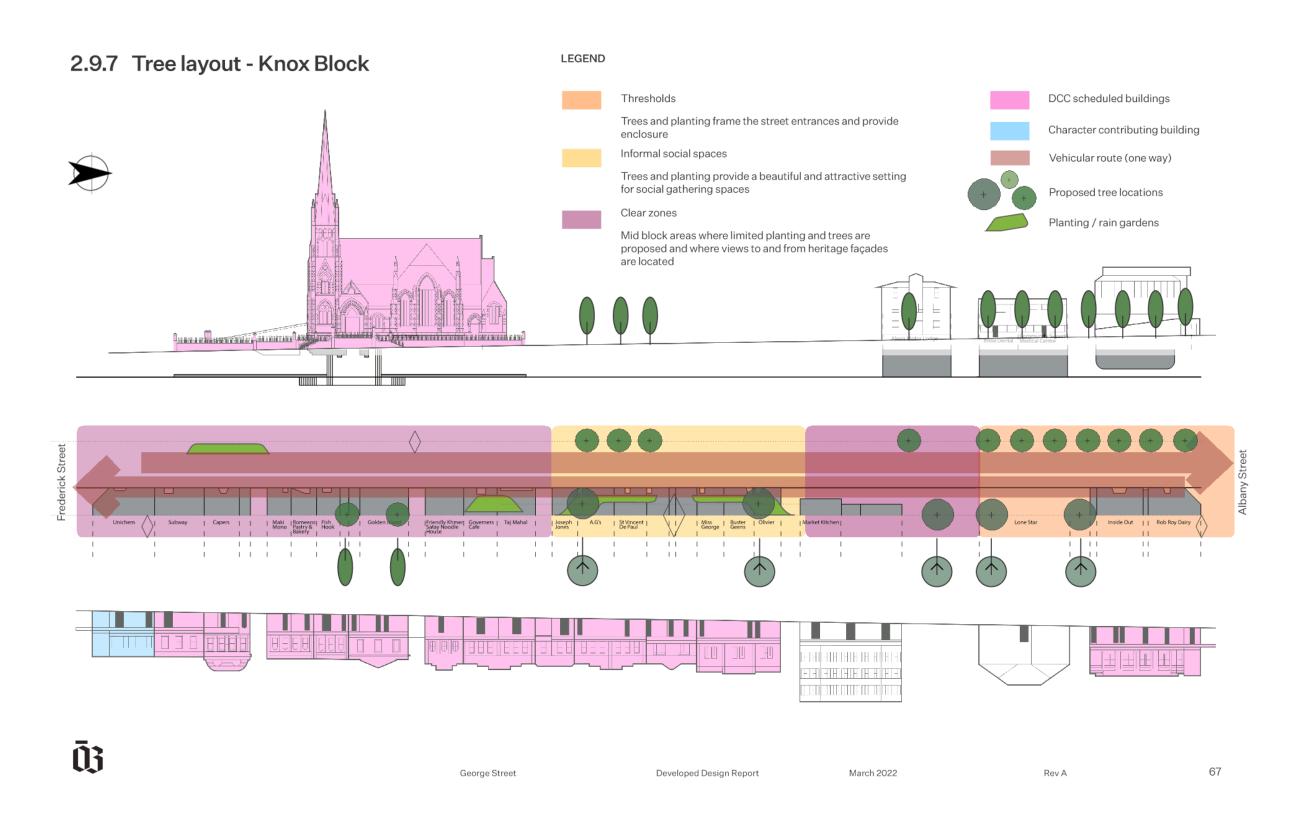














Stormwater management

2.10 Stormwater management

Urban stormwater run-off can have adverse effects on the drainage, ecological, cultural, recreational, landscape and heritage values of waterways. Discharge of untreated stormwater to groundwater can also affect the quality of shallow groundwater.

Rain gardens are engineered gardens designed to harness the natural ability of vegetation and soils to treat stormwater. Treatment occurs through sedimentation, filtration, adsorption and uptake by vegetation. They can be used to reduce the effects of stormwater volumes, peak flows and contaminant loads on waterways.

This project aim is to achieve for full road and footpath coverage within the corridor being discharged to rain gardens.

Location of rain gardens

Overland flow path and

direction of flow

LEGEND



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Lighting

Lighting strategy

The lighting strategy is to provide V3 lighting category. This is primarily for safety, to ensure all objects can be easily seen at night. A colour temperature of 4000K along the street will enable good colour rendition and facial recognition is achieved in all locations. In certain locations, a higher colour temperature and luminance levels may be applied to increase visibility and achieve a more festive atmosphere.

Light poles with high performance and long life LED luminaries set at 10m high at nominal 20-25m spacings will light the carriageway and footpaths under awnings.

Lighting proposed is in two categories:

- 1. Functional lighting, in the form of poles along the street providing levels of light that is welcoming and safe, facial recognition and visual access across the street is achieved
- 2. Feature lighting, providing an attractive and dynamic night-time atmosphere which will highlight specific areas such as the pātiki, ground plane or planter lighting to emphasise movement, and catenary lighting above



Functional

WE - EF VFL Luminaire with 1.0m outreach arm on slimline pole in Tauranga. Image source - Jasmax



Catenary

Overhead catenary lighting system. Image source - Ronstan



Feature

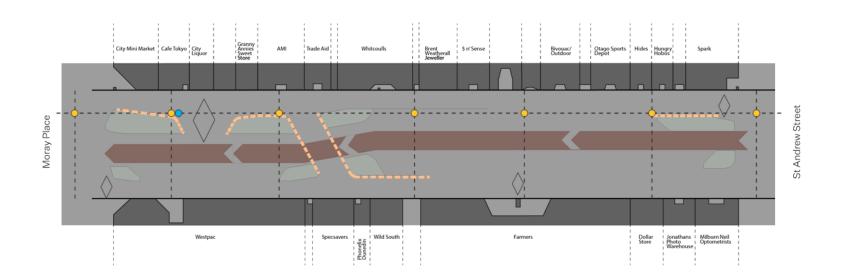
In ground lighting, Cathedral's Apse, Square, Tortosa, Spain

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2.11.1 Lighting concept - Farmers Block

Note: light poles and feature lighting shown here are indicative, refer to technical drawings set for locations to be finalised in Detailed Design



LEGEND

Pole light

Planter / seating lighting

Catenary lighting

Feature spot on pole light

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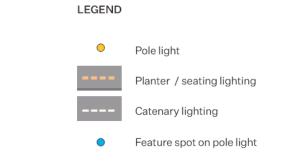
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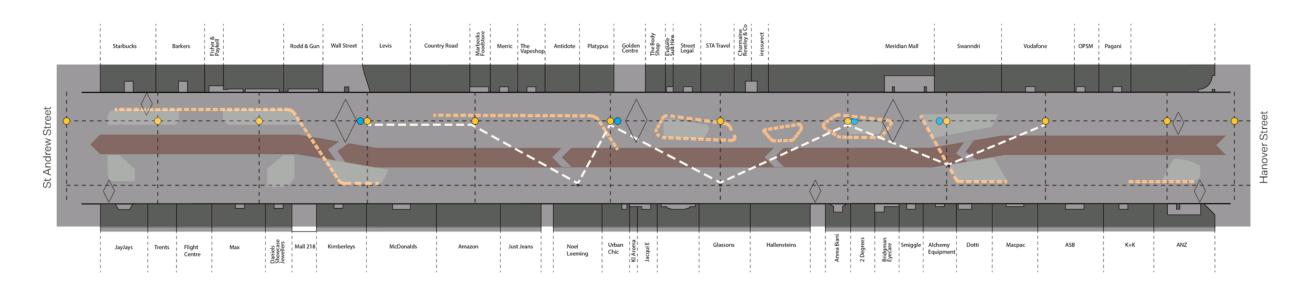
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2.11.2 Lighting concept - Golden Block

Note: light poles and feature lighting shown here are indicative, refer to technical drawings set for locations to be finalised in Detailed Design





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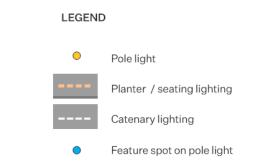
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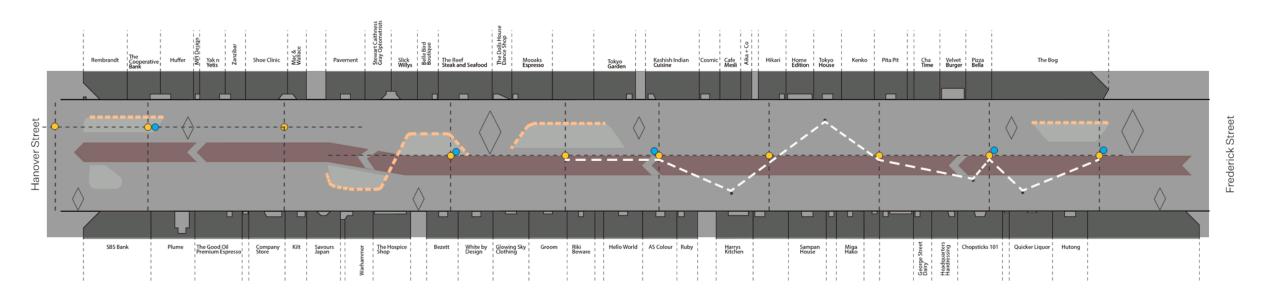
Rev A



2.11.3 Lighting concept - New Edinburgh Way Block

Note: light poles and feature lighting shown here are indicative, refer to technical drawings set for locations to be finalised in Detailed Design





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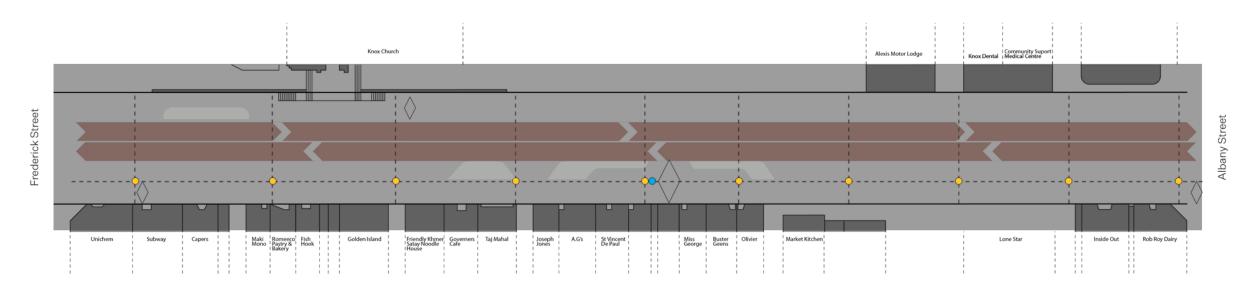
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LEGEND

2.11.4 Lighting concept - Knox Block

Note: light poles and feature lighting shown here are indicative, refer to technical drawings set for locations to be finalised in Detailed Design

 \bigcirc Pole light Planter / seating lighting Catenary lighting Feature spot on pole light



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Play

2.12 Play strategy

The play strategy for George Street is to provide a diversity of informal and formal play opportunities along the street.

The focus will be the play space located in the Golden Block between the entrances of the malls. It is located here to provide an opportunity for children to have fun in the city while out with their parents and guardians.

It is true that play is not just for kids and this play space is also for adults and therefore the structures and activities proposed are suitable for all ages. Consideration has been made in terms of safety standards and setbacks, soft-fall materials and fall distances.

Informal play is considered along the street, the planters themselves offer opportunities to 'walk the edge' as they undulate up and down the street. Stepping stones and boulders are proposed as alternative ways to cross the planters in various locations.







Play surface treatments- soft fall



Play space -programmed play space within the Golden Block

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2.12.1 Play activities

Play in George will consist of a number of activities that can be considered passive or active in nature. The approach to play will allow for as many of these activities as possible such that a dynamic and rich opportunity of play is accessible for ages and abilities within the street. Below are some of the possible passive and active play activities for George Street:

Active activities

- Climbing on obstacles such as planter edges or on cargo nets
- Swinging from dedicated elements
- Balancing on boulders, beams and ledges
- · Running between activities
- Jumping on spring mats and between obstacles





Active balancing

Passive activities

- Lounging- sitting or lying in a hammock
- · Listening through whisper-ma-phone
- Looking and observing
- · The 'insta' moment







Passive listening

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2.12.2 Golden Block play space

The concept for the Golden Block play space is inspired from the kareao (or supplejack) vine which according to \underline{m} and whenua was common in the dense bush that occupied the foreshore of Ōtepoti before the city was settled. The intertwining vines formed a near impenetrable barrier within the forest.

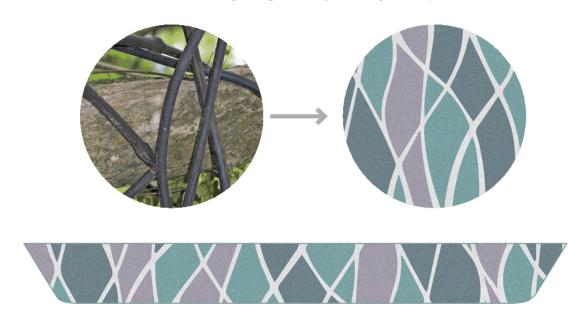
The play concept is derived from forging a pathway through the kareao labyrinth.

The three key components of the play space are:

- Ground plane surface treatment is an abstraction of the complex lattice of kareao vines
- Journey a playful element that is multi dimensional enables navigation through the space
- Obstacles episodic play elements that occur along the journey that are conquered as you pass through

Ground plane





Journey



Obstacles



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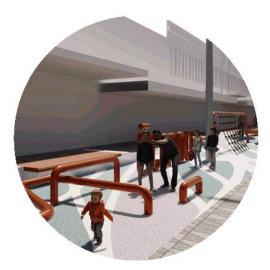
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2.12.3 Golden Block play space views











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Street Programming

3.0

3.1 Street programming

As Dunedin's premier retail street George Street needs to deliver value at all levels for the whole community and their guests. Attracting people to spend time in the street will contribute to the economic performance of the businesses that line the street and promote activities that will keep the street occupied and feeling safe.

Activities in the buildings that line the street will be reflected in the layout of the street - to frame them and enhance views to reinforce identity. Crossings and sitting areas will be associated with natural movements and sunny places to stop and watch the world go by, perform and play. Areas where food and entertainment is clustered will enable outdoor dining to extend businesses and enliven the street.

The following pages explore how the street is 'programmed' to ensure a balance is achieved between movement and destination social space.

Considerations

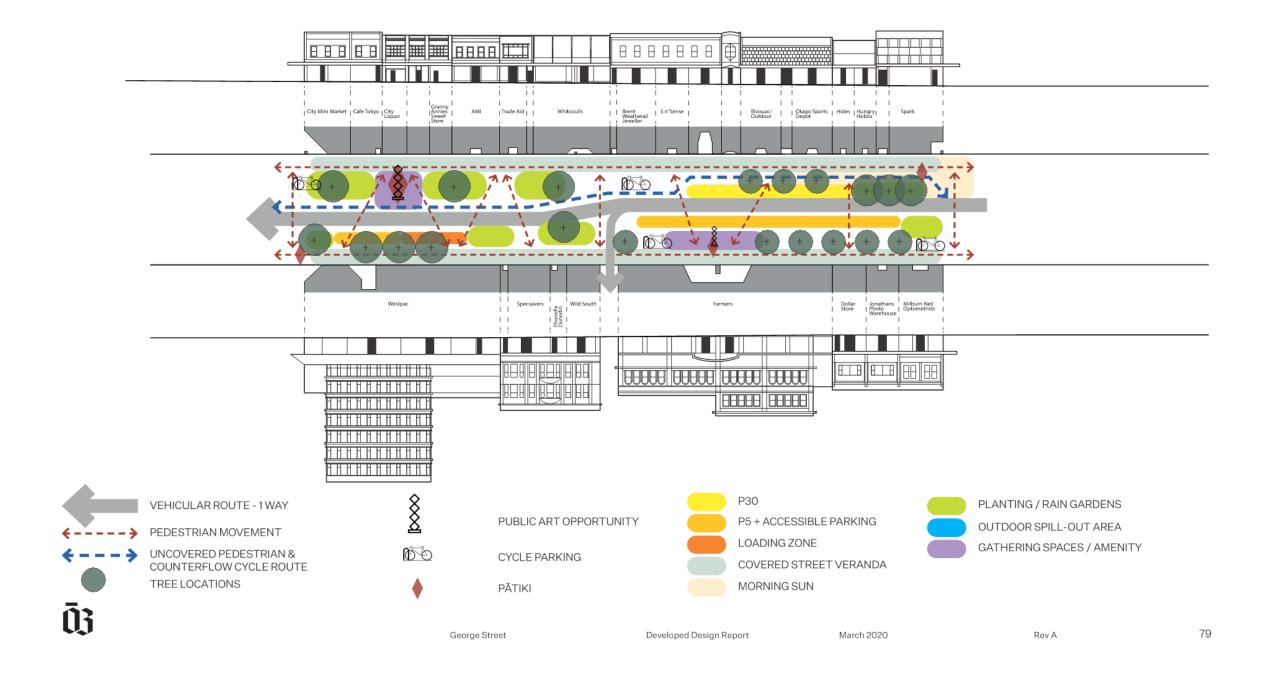
- Shade and sun access to provide warmth and shelter where its needed
- Heritage and character buildings to frame and protect views of façades
- · Location of trees and planting
- · Location of public art installations
- Location of Pātiki and other breakout spaces
- Entry points into buildings where people will be moving
- · Desire lines for pedestrians crossing
- Vehicle movement, parking and loading
- Adjacent use (food and beverage, retail, commercial)
- Access to lane-ways and service routes
- Cycle routes and parking stands
- · Placement of street furniture

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3.2 Farmers Block Programme



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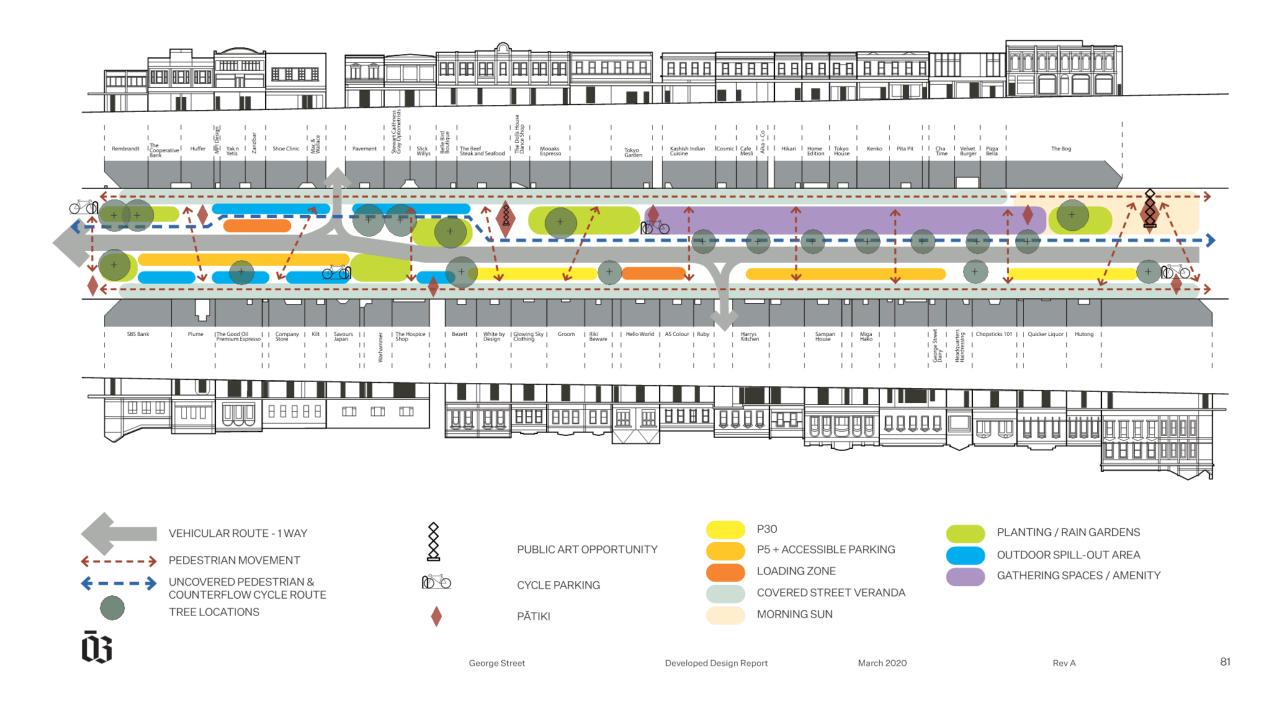
3.3 Golden Block Programme





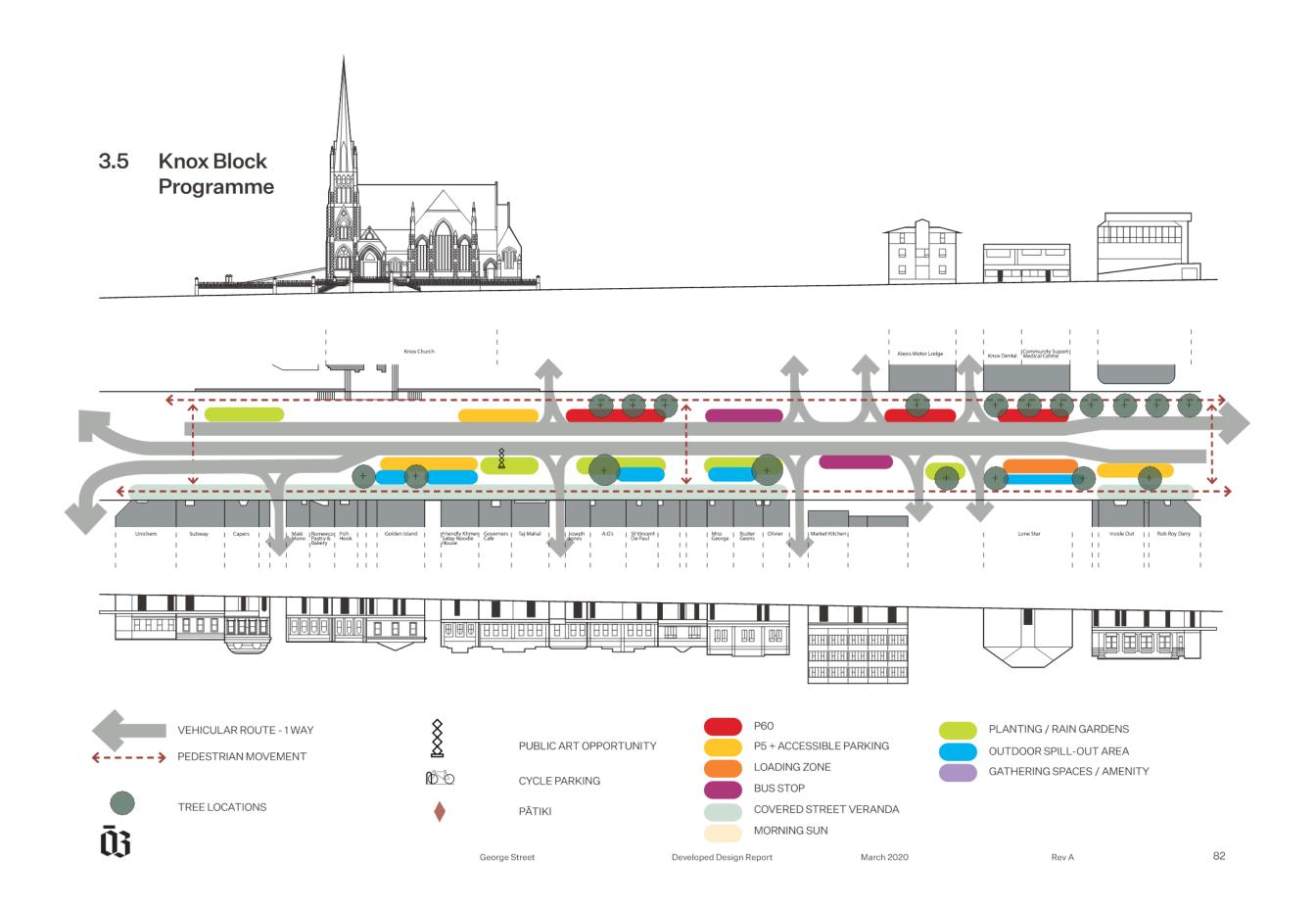


3.4 New Edinburgh Way Programme



Item,







Design Drawings

4.0 Design Drawings

This section provides rendered street views, illustrative plans and axonometric drawings of the Developed Designs for George Street.

These drawings are to be read in conjunction with the technical drawings which provide more detailed set-outs and information on tree, planting, features and furniture placements.

Paving geometry is to be further fine tuned during detailed design.

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New Edinburgh Way view 4.1

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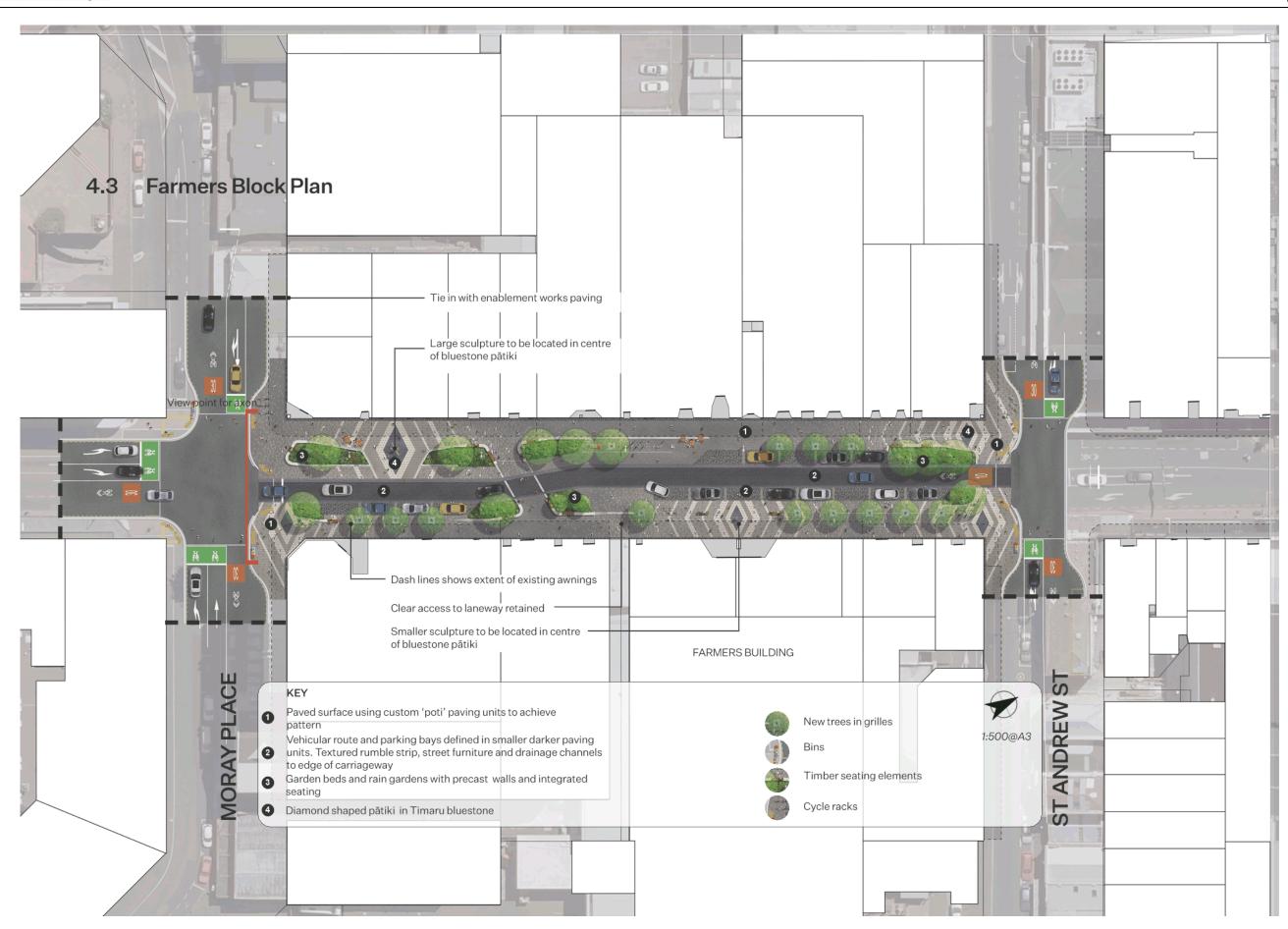


4.1 Golden Block view

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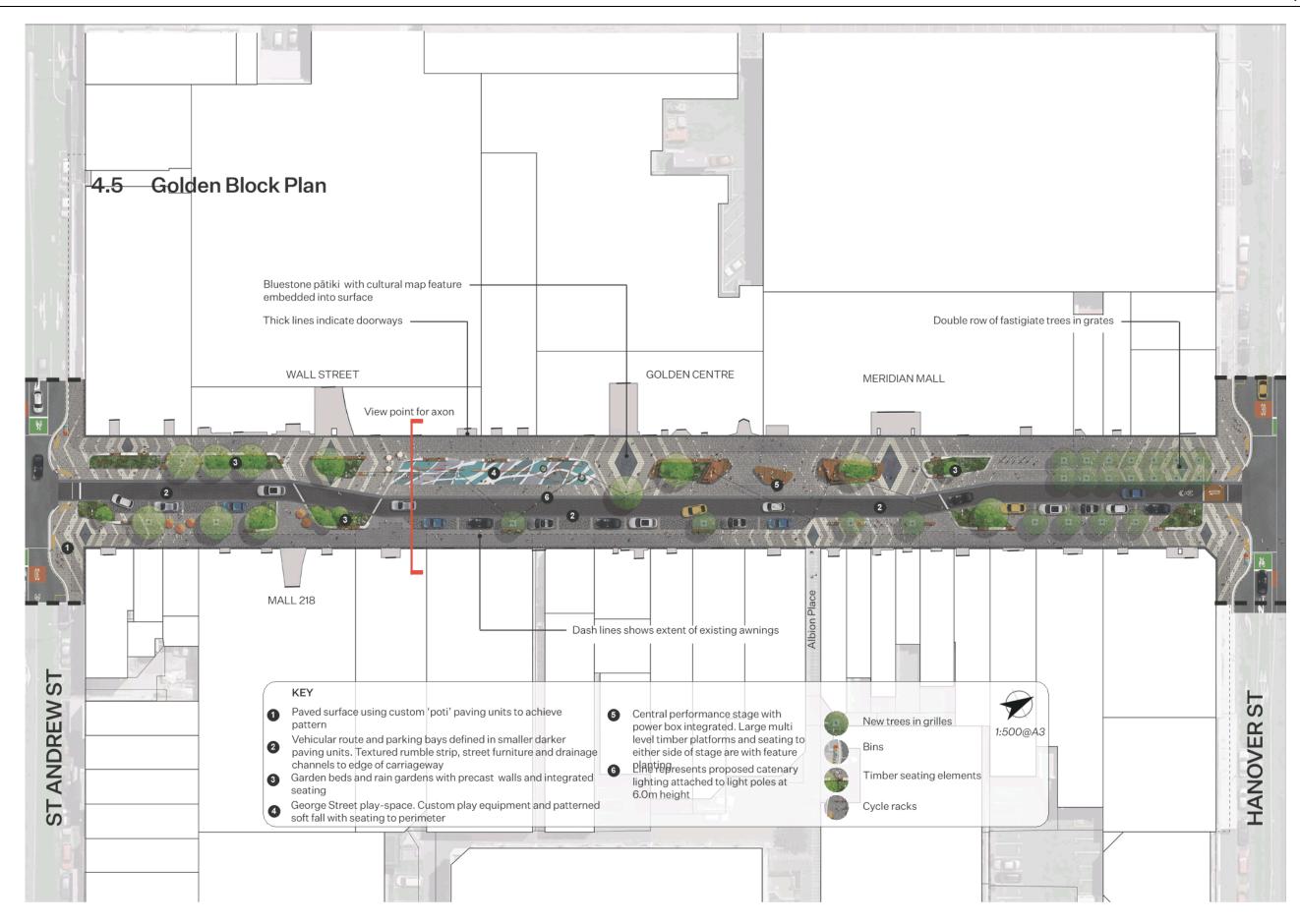






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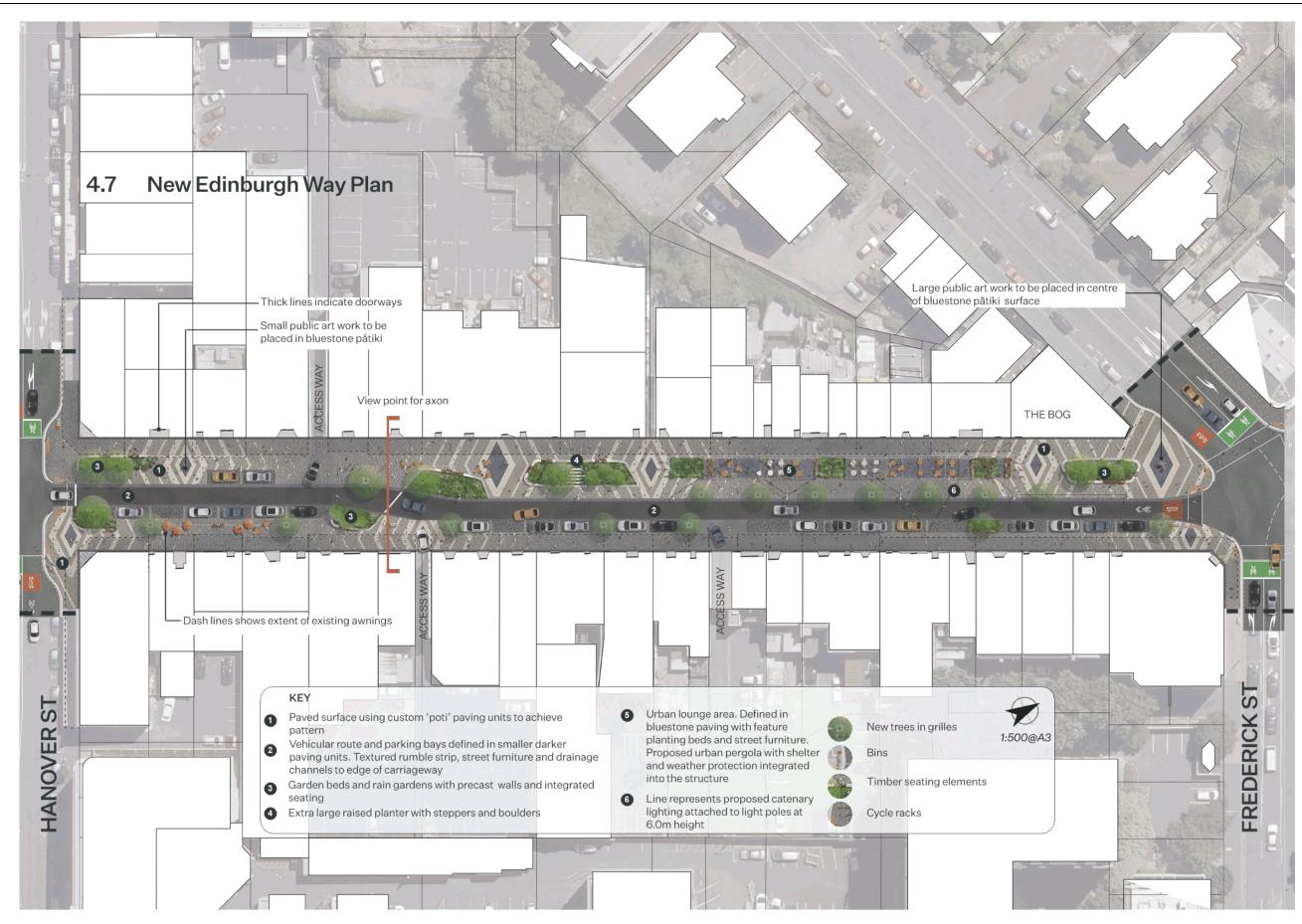


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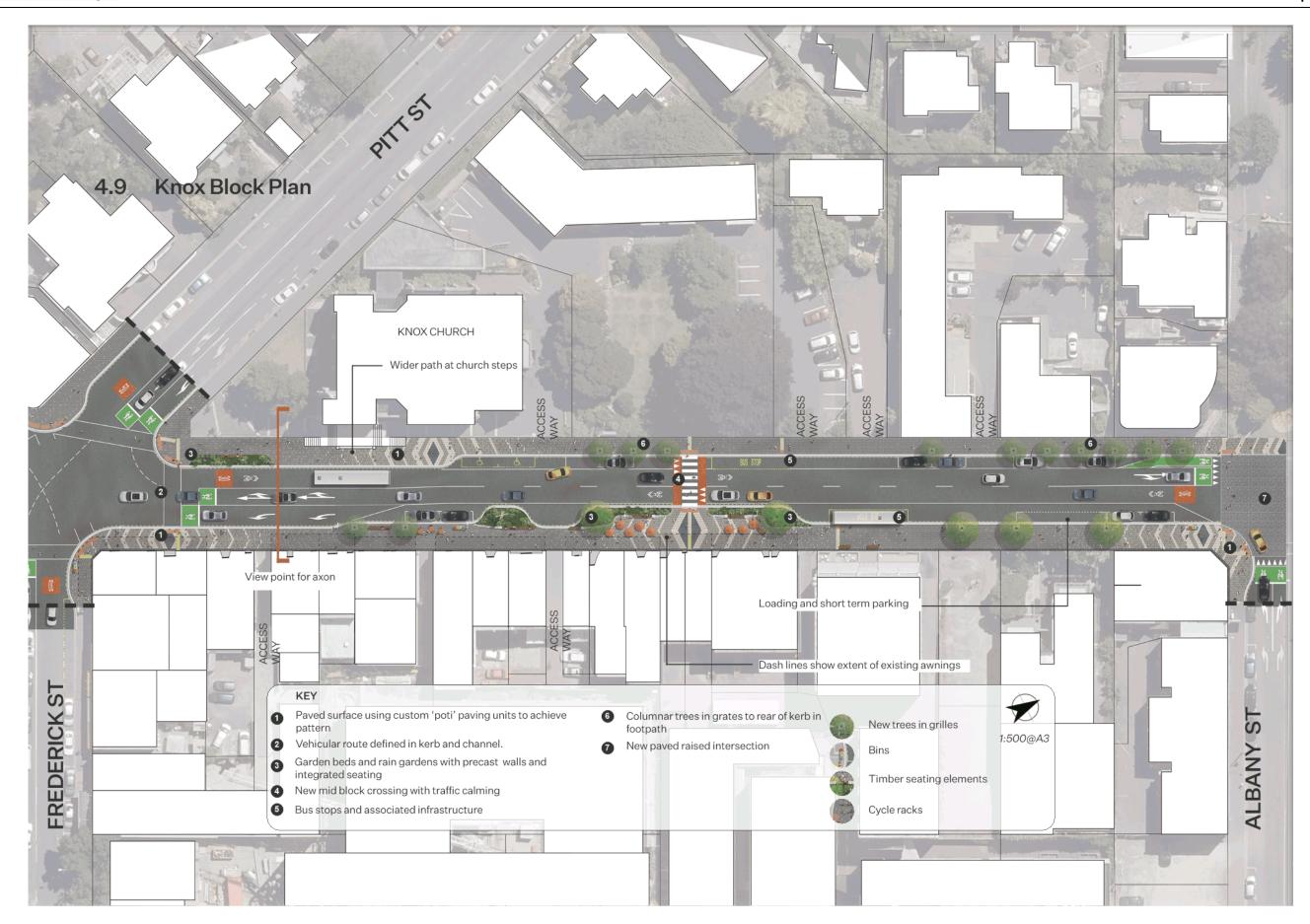




4.8 New Edinburgh Way Axon









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Project Components

5.0

5.1 Introduction

This section of the report provides drawings and descriptions of the key components within the design for George Street. It covers the proposed paving materials, infrastructure / drainage, street furniture and planting. Key notes are cross referenced with the technical drawing set in section 6 of this report.

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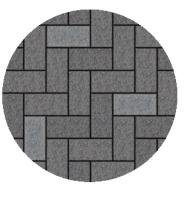
George Street Upgrade Developed Design Report March 2020 Rev A 97



Surface material nominations



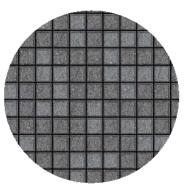
ASPHALT FOOTPATH



CONCRETE UNIT PAVERS MOVEMENT ROUTE

Firth Piazza Pavers

SIZE 397 x 197 x 80mm COLOUR Volcanic Ash **FINISH Bush Hammered** Honed

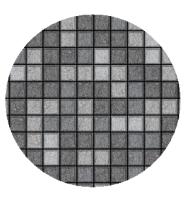


P02 CONCRETE PAVERS MAKE UP STRIP

Firth Holland 'Sett' Pavers

SIZE COLOUR FINISH

197 x 97 x 80mm Black Sands Volcanic Ask Bush Hammered Honed



CONCRETE PAVERS INFRASTRUCTURE STRIP

Firth Holland 'Sett' Pavers

SIZE COLOUR FINISH

197 x 97 x 80mm Black Sands Volcanic Ask Bush Hammered Honed



BLUESTONE PAVING P04 PATAKI

Timaru Bluestone

SIZE Varies: 200mm Wide x 80mm Thick COLOUR Natural FINISH First Rub



BLUESTONE PAVING P05 RUMBLE STRIP

Timaru Bluestone

SIZE 300 x 150 x 60mm COLOUR Natural **FINISH** Split Face



CONCRETE UNIT PAVING VEHICLE CORRIDOR

Concrete unit paver

SIZE 200 x 100 x 80mm COLOUR Dark Grey Black Sands FINISH

Varies



P07 CONCRETE UNIT PAVING PARKING BAYS

Concrete unit paver

SIZE 200 x 100 x 80mm COLOUR Mid Grey Light Grey **FINISH** Bush Hammered Honed



POTI-1 POTI PAVER **CUSTOM PAVING UNIT**

COLOUR 'Dunedin Light' 'Dunedin Mid'

FINISH

'Dunedin Dark' 'Dunedin Gold' **Bush Hammered** Honed

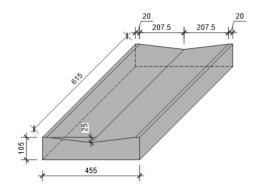
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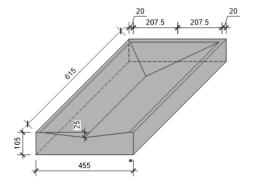
5.3 Street infrastructure nominations



D-01 BASALT DISH CHANNEL

Timaru Bluestone

SIZE 455x615x105mm COLOUR Natural FINISH First Rub



D-02 BASALT DISH CHANNEL -END UNIT

Timaru Bluestone

SIZE 455x615x105mm COLOUR Natural FINISH First Rub



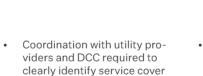
INFILL SERVICE LIDS

MATERIAL S/S (given proximity to coast)
DIMENSIONS Varies depending

on utility
INFILL Infilled with adjacent

type and requirements

material
TYPE Wundercover (or similar)





TACTILE GROUND SURFACE INDICATORS

DIMENSIONS 300x300x80/60mm

COLOUR Yellow
TYPE Precast concrete
tactile paver
combination of
warning pavers
(circles) and
directional
(elongated bars)
depending on
location

To meet NZ standards



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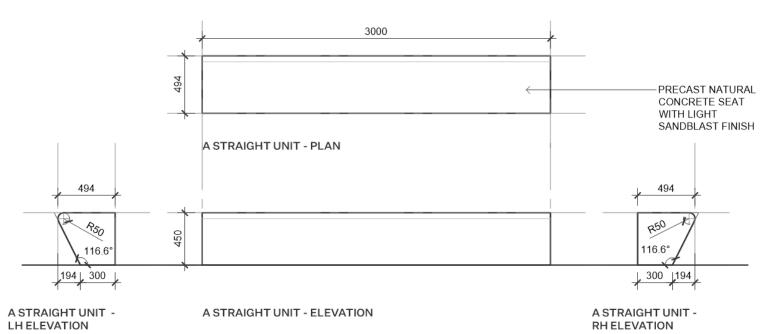
5.4 Furniture - precast modules

PROFILE A - STRAIGHT UNIT

3.0m long raised concrete precast unit to form edging to garden beds with wide flat top. Further development of units to allow for lifting provisions and to accommodate change in levels within ground plane to occur during detailed design.



PROFILE A STRAIGHT - RENDER



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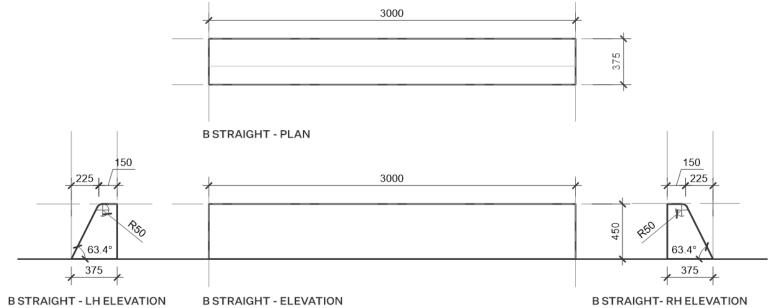
PROFILE B - STRAIGHT UNIT

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3.0m long raised concrete precast unit to form edging to garden beds with narrow flat top. Further development of units to allow for lifting provisions and to accommodate change in levels within ground plane to occur during detailed design.



PROFILE B STRAIGHT- RENDER



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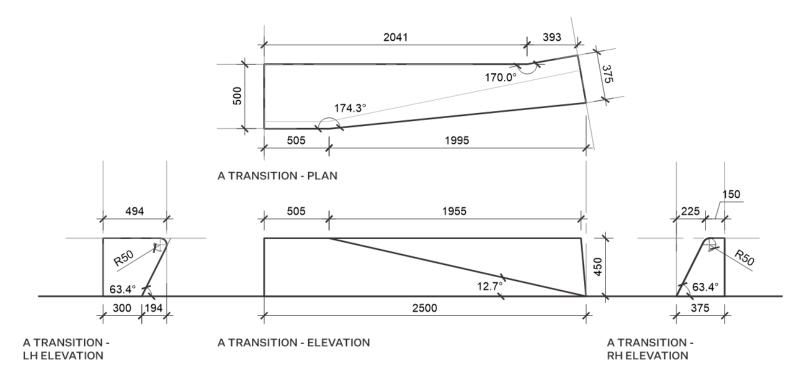


PROFILE A - TRANSITION UNIT

Unit to transition between profile A and profile B. Further development of units to allow for lifting provisions and to accommodate change in levels within ground plane to occur during detailed design.



PROFILE A TRANSITION- RENDER



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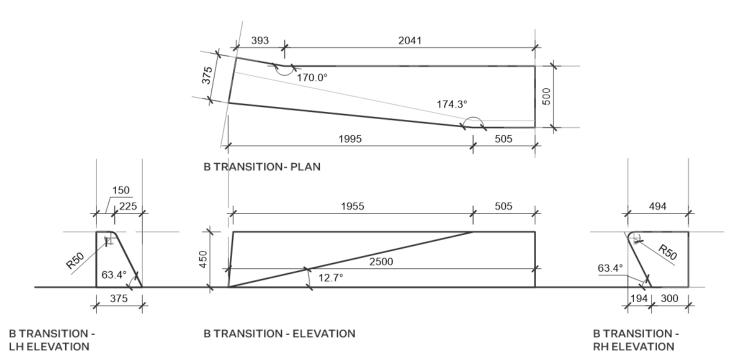


PROFILE B - TRANSITION UNIT

Unit to transition between profile B and profile A. Further development of units to allow for lifting provisions and to accommodate change in levels within ground plane to occur during detailed design.



PROFILE B TRANSITION - RENDER



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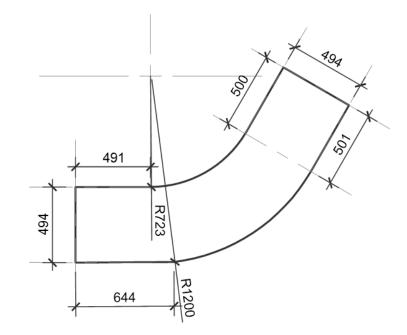
George Street Retail Quarter Developed Design

PROFILE A - 1200 60D CURVE UNIT

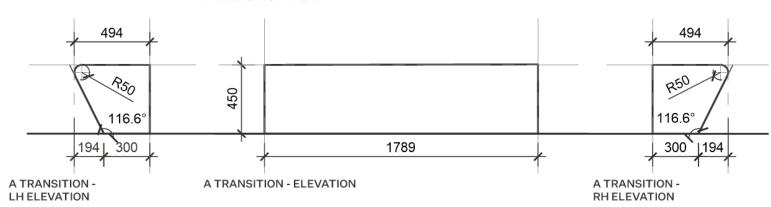
Corner unit to allow radial curves to be created. Further development of units to allow for lifting provisions and to accommodate change in levels within ground plane to occur during detailed design.



PROFILE A - 1200 60D CURVE UNIT RENDER







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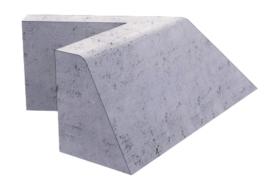
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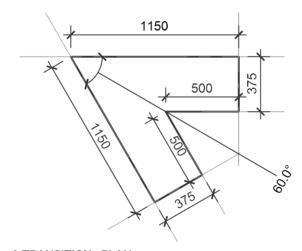


PROFILE B - 60D CORNER UNIT

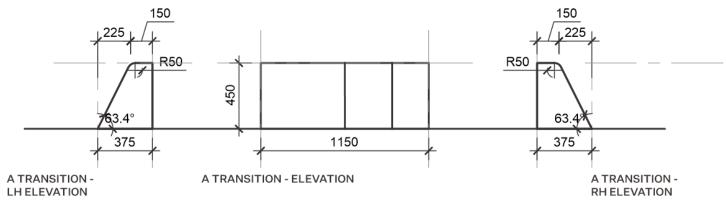
Corner unit to allow sharper profile corners to be created. Further development of units to allow for lifting provisions and to accommodate change in levels within ground plane to occur during detailed design.



PROFILE B - 60D CORNER UNIT RENDER









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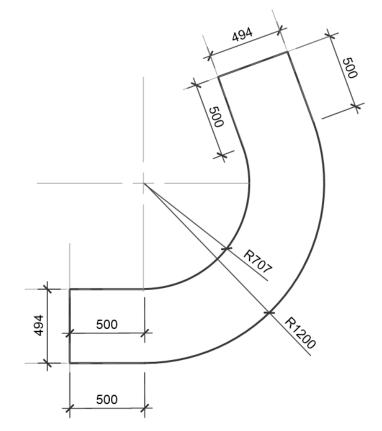


PROFILE A - 1200 110D CURVE UNIT

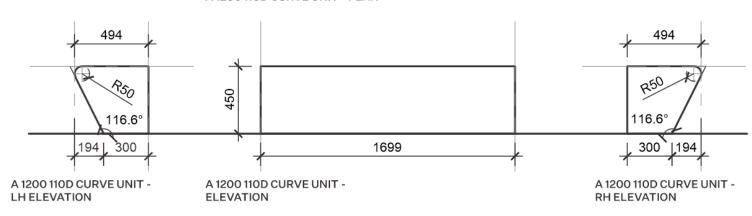
Corner unit to allow radial curves to be created. Further development of units to allow for lifting provisions and to accommodate change in levels within ground plane to occur during detailed design.



PROFILE A - 1200 110D CURVE UNIT RENDER



A 1200 110D CURVE UNIT - PLAN



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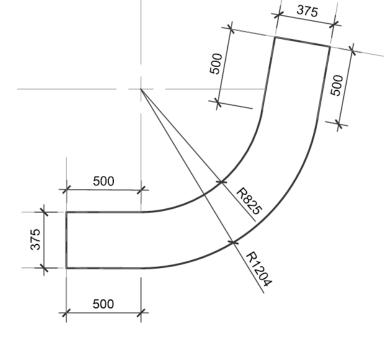
B 1200 80D CURVED UNIT -

RH ELEVATION



PROFILE B - 1200 80D CURVED UNIT

Corner unit to allow sharper profile corners to be created. Further development of units to allow for lifting provisions and to accommodate change in levels within ground plane to occur during detailed design.

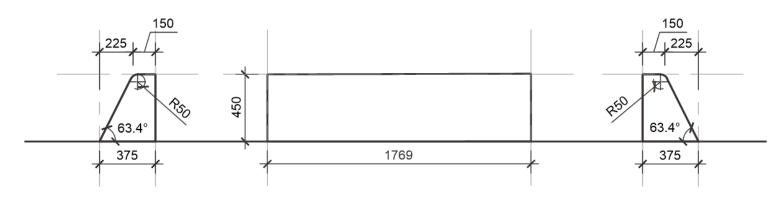


B 1200 80D CURVED UNIT - PLAN

B 1200 80D CURVED UNIT -



PROFILE B - 1200 80D CURVED UNIT RENDER



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ELEVATION

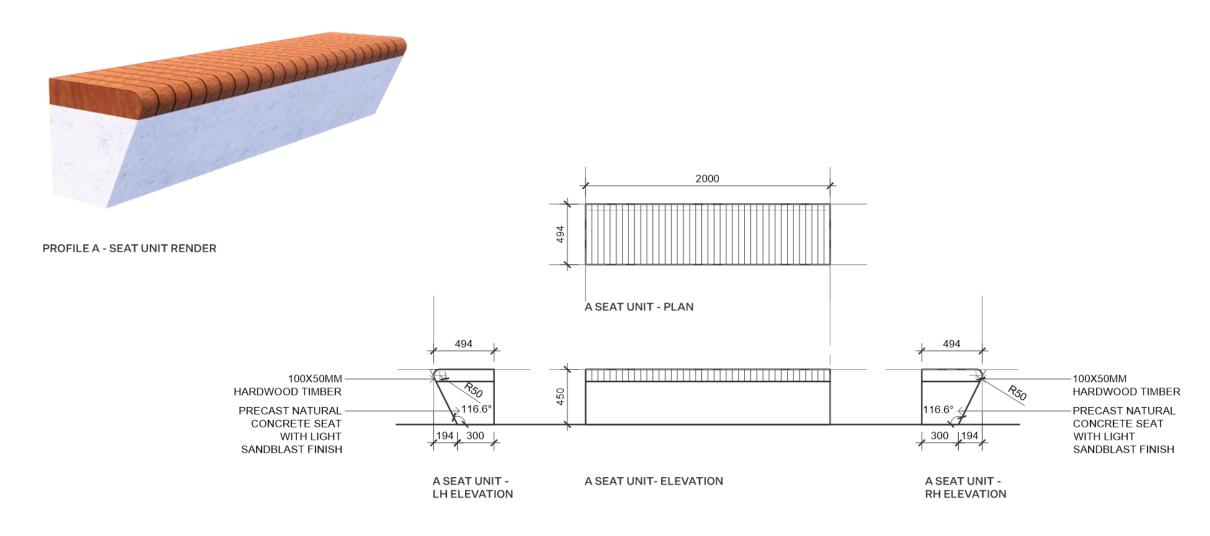
B 1200 80D CURVED UNIT -

LH ELEVATION



PROFILE A - SEAT UNIT

Timber seating slats to be incorporated into the profile of the precast units. Further development of units to determine extent of seating to have back and arm rests to occur during detailed design.



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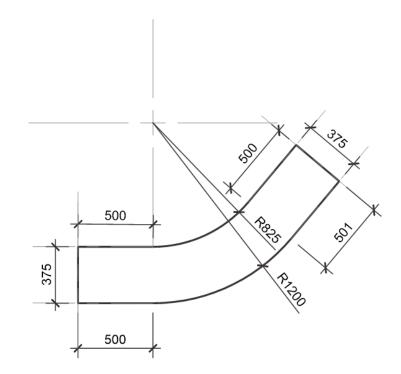


PROFILE B - 1200 50D UNIT

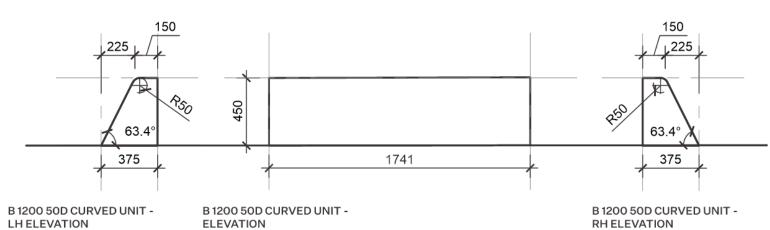
Corner unit to allow radial curves to be created. Further development of units to allow for lifting provisions and to accommodate change in levels within ground plane to occur during detailed design.



PROFILE B - 1200 50D UNIT RENDER



B 1200 50D CURVED UNIT - PLAN



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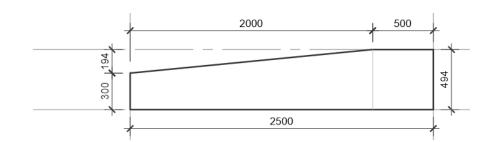


PROFILE A - FLUSH TRANSITION UNIT

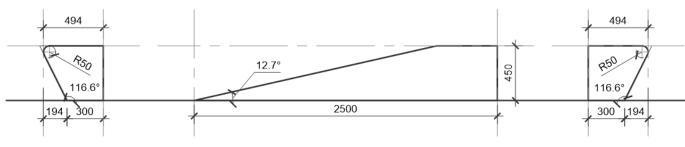
Unit to taper down from finished seat wall height to flush with ground plane. Further development of units to occur during detailed design.



PROFILE A - FLUSH TRANSITION UNIT RENDER



A FLUSH TRANSITION UNIT - PLAN



A FLUSH TRANSITION UNIT -LH ELEVATION A FLUSH TRANSITION UNIT - ELEVATION A FLUSH TRANSITION UNIT - RH ELEVATION

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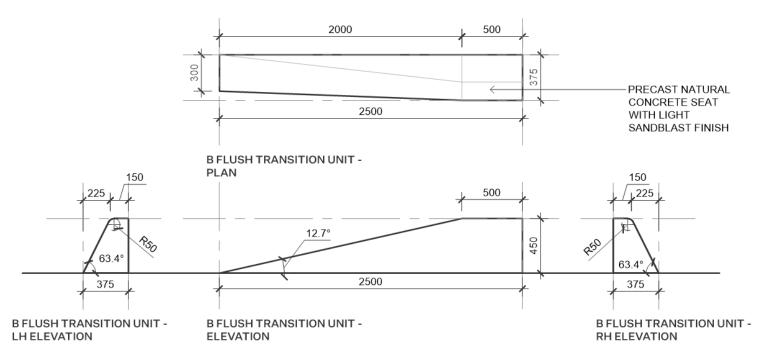


PROFILE B - FLUSH TRANSITION UNIT

Unit to taper down from finished seat wall height to flush with ground plane. Further development of units to occur during detailed design.



PROFILE B - FLUSH TRANSITION UNIT RENDER





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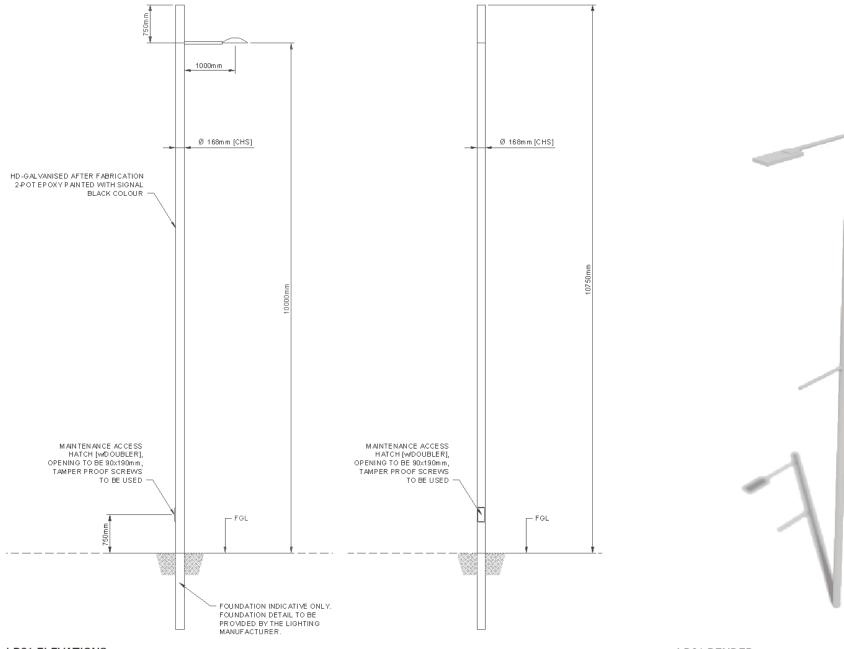


Furniture - light poles

LP01 LIGHT POLE

10.75m high light pole painted Resene ' Blast Grey 3'.

Single luminaire to be mounted on carraigeway side of pole at 10.0m height orientated perpendicular to the carraigeway. Banner Arm to mounted at 6.0m height specifications to be confirmed with



LP01 ELEVATIONS LP01 RENDER

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LP02 LIGHT POLE

10.75m high light pole painted Resene 'Blast Grey 3'.

Typical luminaire to be mounted on carraigeway side of pole at 10.0m height orientated perpendicular to the carraigeway. Additional feature directional spot lighting to be mounted on poles to be directed at street features. Spot luminaire and mounting details to be confirmed in detailed design.



LP02 RENDER

LP03 LIGHT POLE

10.75m high light pole painted Resene 'Blast Grey 3'.

Typical luminaire to be mounted on carraigeway side of pole at 10.0m height orientated perpendicular to the carraigeway. Catenary lighting wire and luminaires to be strung between these poles.



LP03 RENDER

LP04 LIGHT POLE

10.75m high light pole painted Resene ' Blast Grey 3'.

Typical luminaire to be mounted on carraigeway side of pole at 10.0m height orientated perpendicular to the carraigeway. Additional feature directional spot lighting to be mounted on poles to be directed at street features. Catenary lighting wire and luminaires to be strung between these poles. Spot luminaire and catenary lighting mounting details to be confirmed in detailed design.



LP04 RENDER



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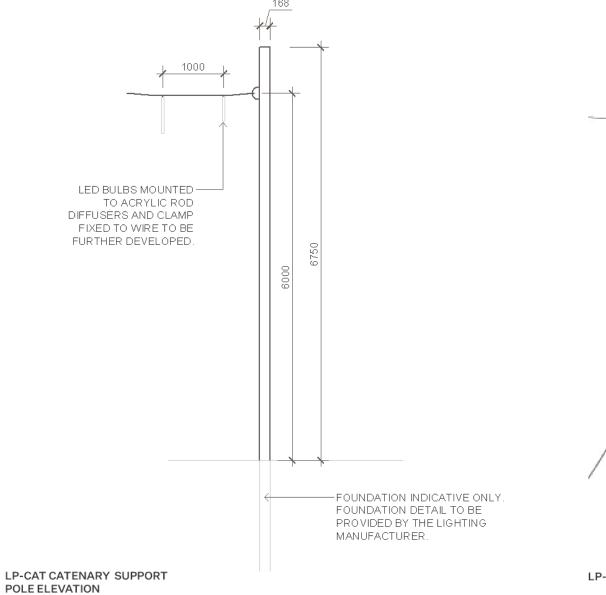


LP-CAT CATENARY SUPPORT POLE

6.75m high catenary light pole painted Resene 'Blast Grey 3' with catenary lighting mounted at 6.0m above finished ground level. Power supply requirements, fixing details and wiring details to be confirmed and coordinated with supplier and electrical engineer.

CAT CATENARY LIGHTING

LED bulbs mounted to acrylic rod diffusers and clamp fixed to stainless steel catenary wire. Lighting to be installed as per suppliers details.



LP-CAT + CAT RENDER

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5.6 Furniture - bins and cycle stands

BIKE - Bicycle Rack

TYPE: BR_01

MATERIAL: Stainless Steel 304
DIMENSIONS: W300xH900xdia

50mm

FINISH: Satin Linish

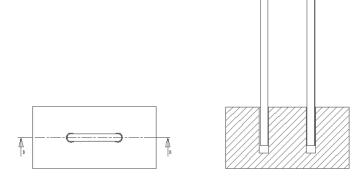
FIXING: Surface mounted to

concrete paving - as per manufacturers

details

SUPPLIER: Walkspace (or

approved alternative)



BIKE PLAN

BIKE ELEVATION

BIKE RENDER

BINS - Rubbish Bins

TYPE: DCC Triple Waste

Splitting Bin

Supplier: DCC approved supplier

FIXING: Sub-surface mounted

to concreter pad as per suppliers details

 Continue to roll out larger waste splitting bins city wide



BINS RENDER

GRATE - Tree Grate

TYPE: DCC Custom Tree

Grate

SUPPLIER: TBC

FIXING: Sub-surface mounted to concrete support

structure

MATERIAL: Steel

- opportunity to customise pattern on grates
- sizes modular with paving units to reduce cutting and wastage



TREE GRATE PRECEDENT

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Furniture - drinking fountains

AQUA - Drink fountain and bottle

filler

DF_02 accessible drink fountain MATERIAL: 316 Stainless steel

DIMENSIONS: D775xW150xH775 FINISHES: Linish stainless steel

DRAIN:

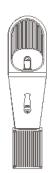
FIXING: Sub-surface mounted

to suppliers details In ground drainage

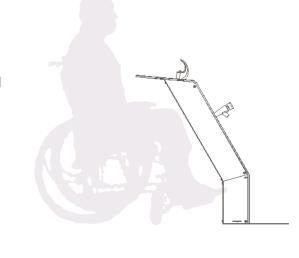
grate SUPPLIER:

Walkspace (or

approved alternative)









AQUA PLAN

AQUA ELEVATION

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5.8 Urban lounge

FULL STRUCTURE

Urban lounge with overhead shade structure, fixed pots, precast concrete seat units and catenary lighting overhead.



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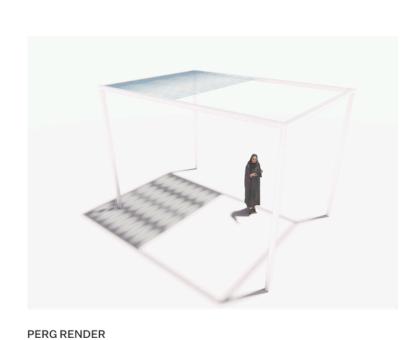
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5.8.1 Urban lounge components

PERG URBAN PERGOLA STRUCTURE

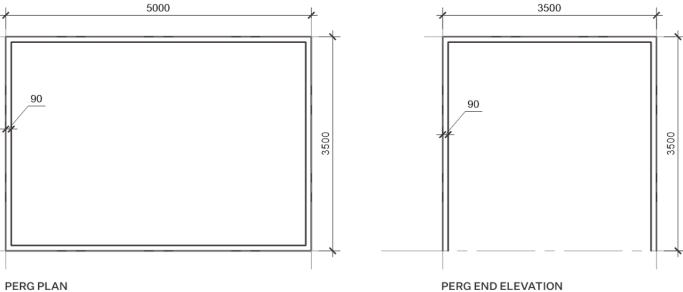
Urban pergolas modules to be 3.5m high x 3.5m wide x 5.0m long. Frame to be constructed using 89 x 89 x9mm SHS grade steel butt welded on site. 2 Pot epoxy paint finish to all steel in Resene 'blast grey 3'. Ground planted columns to engineers specifications. Tempered glass panels with concealed fixings to top rails of structure. Coloured and fritted panels to cast light pattern to surfaces below. Details to be confirmed in detailed design.



PERG ELEVATION

5000

5000



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5.8.1 Urban lounge components



PERG RENDER - HEATER

Outdoor heaters mounted internally on framework as per manufacturers specifications.

TYPE:

SL40 4.0km Slimline

SUPPLIER: Infratech (or similar

approved)



PERG RENDER - SIDE SCREEN

Calido clear PVC zip screen internally mounted within modules. End screens to span full width. Details TBC in detailed design.



PERG RENDER - TENSIONED STAINLESS STEEL WIRE

5.0mm stainless steel tensioned wire eye hooked to top rail of structure module an sub surface mounted within paving using 304 stainless steel turnbuckles. Details TBC in detailed design.



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5.8.1 Urban lounge components

CYLINDRICAL PLANTERS

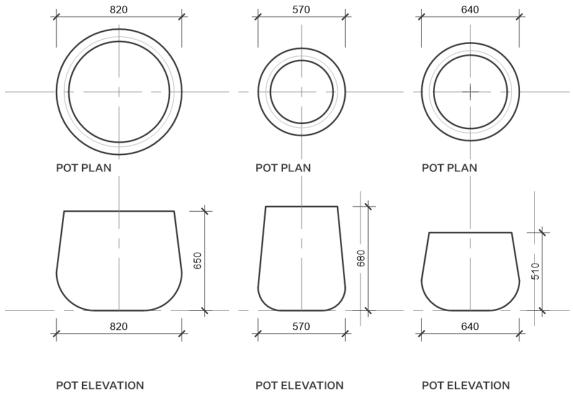
Urban Planter / urban tall planter MATERIAL: Glass reinforced concrete

DIMENSIONS: 680Hx570W (large) 510Hx640W (Medium)

650Hx382W (small) 2-Pot epoxy paint

FINISH: finish white SUPPLIER: Urban effects





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5.9 Planting - selection criteria

STREET TREE PLANTING DESIGN

Street trees add considerable value to urban environments, although they need to mature before their full value can be realised. Too often street trees are removed too early due to complications with their management, poor planting practices or being the wrong shapes and sizes for their locations.

In selecting the long list of street trees for George Street, we have prioritised the following:

1. Longevity.

We want street trees to be multi-generational, outliving us all and going on to shade and beautify the street for decades. Trees that are typically short lived have been selected out, as have trees that have roots that are known to damage underground services and pavements, drop branches, block drains, have allergens or are toxic, or don't have a track record of thriving in tough urban environments.

2. Responding to context.

The shape, size, habit, and provenance of trees will suit their final locations. We don't want to march trees down the street at regular spacings, ignoring adjacent context and making each block look the same, regardless of changes in context.

3. Creating a 'gardened' environment.

Each block is different with regards to land uses and architectural style and scale. The composition of the street should change as you move through it and view it from different vantage points. And it should change through the day and through the seasons too.

There is **beauty in diversity**. We have chosen to break from tradition and provide diversity of shape, size, habit, and provenance. Street trees will be selected and located to:

- frame valued buildings, doorways, and views
- shade parts of the footpath, and let light and warmth through to others
- create shape and volumes in the street that are proportional to human scale and the built environment
- create seasonal interest with deciduous trees, and hold the street together in the cooler months with a framework of evergreen trees
- reinforce local identity and make connections between cultural heritage and the built environment
- · support local birds and insects through the seasons
- collectively green the street, being purposefully offset rather than inline to fill the street out when viewing it longitudinally, but spacious when amongst them.

Street trees aren't easy to establish and retain over the long term. The following forms part of our philosophical and technical design response:

- Prepare trees ahead of time in the nursery ready for planting out, achieving strong root growth in favour of height and girth
- Create ideal conditions that will support each tree through to maturity and beyond, allowing 12 – 15 cubic metres of tree pit volume and using strata vault tree pit cells under pavements
- Aggregate tree pits in common trenches to enable trees to 'talk to each other' through their roots and the mycorrhizal network
- · Passively irrigate trees wherever possible
- Structurally separate tree pits from raingardens so tree roots aren't disturbed during maintenance.

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5.10 Planting - Street trees evaluation criterea

BOTANICAL NAME	MAORI/COMMON NAME	PROVENANCE	LEAF RETENTION	TREE SIZE	MAHINGA KAI	ECOLOGICAL	SEASONALITY	LONGEVITY (YEARS)
		• LOCAL • NATIVE • EXOTIC	DECIDUOUS EVERGREEN	XL L M S		ZW.	w s s a	Long (>100) Moderate (50-100) Short (<50)
Acer campestre cvs.	field maple	•		(SS	W * *	L
Acer cappadocicum 'Rubrum'	red cappadocian maple	•		•		903	<i>i</i> i	М
Acer palmatum cvs.	Japanese maple	•		· ·		W	W * *	М
Carpinus betulus 'Fastigiata'	upright hornbeam	•		•		W	W * *	М
Cordyline australis	ti kouka, cabbage tree	•		9	☆⊌⊗≞	FW &	菲米学	L
Fagus sylvatica 'dawyck'	upright european beech	•		•		¥	й ※ ☀	L
Dacrydium cupressinum	rimu, red pine	•		(P)	☆⊌⊗≞	¥	W * *	L
Fraxinus excelsior 'Green glow'	european ash	•		•		X	W * *	М
Fuscopora cliffortioides	tawhai rauriki, mountain beech	•		•	< <p></p>	¥ &	*	L
Gingko biloba	maidenhair tree	•		•			*	L
Gingko biloba 'Fastigiata'	upright maidenhair tree	•		9			*	L
Kunzea ericoides	kānuka, white tea tree	•		9	%₩	FW &	泸米学	L
Liriodendron tulipifera 'fastigiata'	upright tulip tree	•		(P)		¥ &	*	L
Nyssa sylvatica	sourgum, tupelo	•		•		¥	#	М
Pistacia chinensis	Chinese pistachio	•	P	9		¥	M * *	М
Podocarpus laetus	hall's tōtara	•		•	< <p></p>	¥	<i>i</i> *	L
Podocarpus totara	tōtara	•	#	(¥	<i>i</i> *	L
Prumnopitys ferruginea	miro	•	- 集	(¥	<i>i</i> *	L
Metrosideros umbellata	Southern Rata	•	_	•	☆♥☆	¥ 00	* *	L
Sophora microphylla	south island kowhai	•	-	9	1	¥ W	苏米学	L
Tilia cordata	linden lime	•	₽	(P)		¥ W	# ※ ☀	М
Tilia cordata 'Spring Glow'	golden small leaved lime	•	P , P , P	9		¥ W	# ※ ☀	М
Zelkova serrata	Japanese zelkova	•	, o	(P)			M * *	L



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5.11 Planting - Proposed tree palette

PROPOSED STREET TREE SPECIES OPTIONS



FIELD MAPLE Acer campestre cvs.



CAPPADOCIAN MAPLE Acer cappadocicum 'Rubrum'



JAPANESE MAPLE Acer palmatum cvs.



UPRIGHT HORNBEAM Carpinus betulus 'Fastigiata'



TĪ KŌUKA Cordyline australis



RIMU Dacrydium cupressinum



UPRIGHT BEECH Fagus sylvatica 'dawyck' (purple, green or gold)



EUROPEAN ASH Fraxinus excelsior Green glow'



TAWHAI RAURIKI Fuscopora cliffortioides



MAIDENHAIR TREE Gingko biloba 'Fastigiata'



KĀNUKA Kunzea ericoides



TULIP TREE Liriodendron tulipifers 'fastigiata'



SOURGUM Nyssa sylvatica



CHINESE PISTACHIO Pistacia chinensis



HALL'S TŌTARA Podocarpus laetus



TŌTARA Podocarpus totara



MIRO Prumnopitys ferruginea



SOUTHERN RATA Metrosideros umbellata



KŌWHAI Sophora microphylla



LINDEN LIME Tilia cordata



SMALL LEAVED LIME Tilia cordata 'Spring Glow'



JAPANESE ZELKOVA Zelkova serrata



rerehua/beauty: reflect the seasons seasonal interest

taoka tuku iho/heritage: reinforce identity mahinga kai valuehinga kai

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5.12 Planting - Tree height comparison

STREET TREES - FULL SIZE COMPARISON (INDICATIVE)

20m											
15m											
											4)
10m								áden 4.		No. of the Control of	
5m				<u> </u>						, iy	
Ma				4	W						
Tree Species	TĪ KŌUKA Cordyline australis	GOLDEN LINDEN Tilia 'Spring glow'	KĀNUKA Kunzea ericoides	UPRIGHT MAIDENHAIR Ginkgo 'Fastigiate'	KŌWHAI Sophora microphylla	JAPANESE MAPLE Acer palmatum	CHINESE PISTACHIO Pistachia chinensis	SOURGUM Nyssa sylvatica	EUROPEAN ASH Fraxinus excelsior 'Green glow'	MAIDENHAIR TREE Ginkgo biloba	UPF HORI Carpinus
Mature Size	5.0 x 2.5	5.0 x 4.0	6.0 x 4.0	7.0 x 3.0	8.0 x 5.0	8.0 x 5.0	8.0 x 6.0	10.0 x 6.0	10.0 x6.0	10.0 x 6.0	12.0
Provenance	Ōtepoti	Exotic	Ōtepoti	Exotic	Ōtepoti	Exotic	Exotic	Exotic	Exotic	Exotic	E

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Ecosystem

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STREET TREES - FULL SIZE COMPARISON (INDICATIVE)

20m 15m 10 m 5m CAPPODOCIAN MAPLE Tree Species TAWHAI RAURIKI JAPANESE ELM HALL'S TŌTARA MIRO TŌTARA Zelkova serrata Podocarpus laetus Fuscopora Prumnopitys Podocarpus totara cliffortioides Acer cappodocium ferruginea Mature Size 12.0 x 5.0 12.0 x 6.0 14.0 x 9.0 15.0 x 6.0 15.0 x 6.0 15.0 x 8.0 (H x W m) Provenance Exotic Exotic Ōtepoti Ōtepoti Exotic Ōtepoti

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Ecosystem

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STREET TREES - FULL SIZE COMPARISON (INDICATIVE)



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5.13 Planting - Shrub selection criterea

BOTANICAL NAME	MAORI/COMMON NAME	PROVENANCE	LEAF RETENTION	PLANT FORM	MAHINGA KAI	ECOLOGICAL	SEASONALITY
		LOCAL NATIVE EXOTIC	DECIDUOUS EVERGREEN	SHRUB G/COVER FERN GRASS/ STRAPPY	BUILDING MEDICINE CRAFT FOOD	BIRD INSECT LIZARD	FRUIT FLOWER AUTUMN COLOUR
Coprosma acerosa	tarakupenga, sand coprosma	•	*	র্ম্প্রি		¥ &	* *
Euphorbia glauca	waiūatua, shore spurge	•		<u> </u>	₩ <u></u>	responding to the second	* *
Euphorbia 'Polychroma'	cushion spurge	•		<u>all</u>		333	* *
Gaura lindheimeri	pink butterfly bush	•		<u></u>		333	*
Hebe albicans	koromiko, mt arthur hebe	•	秦	<u> </u>		¥ W	*
Hebe pimeleoides 'Quicksilver'	quicksilver hebe	•	秦	ম্প্রিট		¥ W	*
Hebe propinqua	whipcord hebe	•	*	<u> </u>		¥ W	*
Hebe 'Wiri Mist'	koromiko	•	秦	ন্ত্রিফ		¥ W	*
Hebe 'Wiri Prince'	koromiko	•	- 集	প্রিফ্র		¥ W	*
Leptospermum scoparium 'Red Falls'	mānuka, prostrate tea tree	•	秦	<u> </u>		Y W &	*
Leucophyta brownii 'Silver nugget'	silver cushion bush	•	秦	ন্ত্রিফ্র		833	*
Podocarpus nivalis	snow totara	•	- 集	<u> </u>		A W &	*
Sedum spectabile	stone crop	•	秦	<u> </u>		<i>S</i> C3	*
Sophora prostrata 'Little Twister'	prostrate kowhai	•	秦	<u> </u>	☆ ♥	Y W &	* *
Acaena caesiiglauca	piripiri, glaucous bidibidi	•	*	MWM		¥ W	* *
Acaena inermis 'Purpurea'	piripiri, purple bidibid	•	秦	Mwy		A 00	* *
Acaena novae-zelandiae	piripiri, red bidibidi	•	*	MWM		¥ W	* *
Anaphalioides bellidioides	everlasting daisy	•	秦	Mwy		X 3	*
Bergenia 'Bressingham White'	siberian tea, elephant ears	•	秦	Mww		333	* *
Coprosma acerosa 'Hawera'	sand coprosma	•	秦	Mwy		T E	*
Coprosma acerosa 'Red Rocks'	sand coprosma	•	*	MWM			*
Disphyma australe	horokaka, NZ ice plant	•	秦	Mwy		<i>S</i> C3	* *
Fuchsia procumbens	creeping fuchsia	•	٩	Mwy		Y W E	* *
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BOTANICAL NAME	MAORI/COMMON NAME	PROVENANCE	LEAF RETENTION	PLANT FORM	MAHINGA KAI	ECOLOGICAL	SEASONALITY
		LOCAL NATIVE EXOTIC	DECIDUOUS	SHRUB G/COVER FERN GRASS/ STRAPPY	BUILDING MEDICINE CRAFT FOOD	BIRD INSECT LIZARD	FRUIT FLOWER AUTUMN COLOUR
Gunnera prorepens	gunnera	•		NWW		W	* *
Leptinella dioica	shore leptinella, cotula	•		Mwy		X 3	* *
Ligularia reniformis	tractor seat	•	秦	MWW		X 3	*
Linum monogynum	rauhuia, native linen flax	•	*	MWW		X 3	*
Lobelia angulata	panakenake	•	٩	Mwy	Př.	Y W E	*
Muehlenbeckia axillaris	creeping pohuehue	•	D	Mwy		Y W E	*
Pachystegia insignis	marlborough rock daisy	•	*	Mwy		833	*
Pimelea prostrata	pinātoro, NZ daphne	•		Mwy		W &	*
Pimelea urvilleana	NZ daphne	•	秦	MWW		¥ W	*
Tetragonia implexicoma	kōkihi, native spinach	•	*	MWW		¥ &	* *
Thymus serpyllum 'Coccineus'	creeping thyme	•	*	Mwy		833	*
Asplenium bulbiferum	mouku, hen and chicken fern	•	秦	W.	₩ ₩	range (
Hypolepis ambigua	rough pig fern	•	秦	W.			
Polystichum vestitum	pūniu, prickly shield fern	•	*	W.		region 1	
Arthropodium 'Matapouri Bay'	rengarenga	•	秦	AND THE REAL PROPERTY OF THE P		W &	*
Astelia fragrans	kakaha, bush lily	•	秦	A STATE OF THE PARTY OF THE PAR	< <p></p>	Y W E	* *
Astelia nervosa	mountain astelia	•	秦	ANN ANN AND AND AND AND AND AND AND AND		Y W E	<i>i</i> * * ≠
Dianella revoluta 'Little Rev'	little rev turf lily	•	- 集		☆ ♥ ♣ ≞	¥ W	* *
Dianella nigra	turutu, nz blueberry	•	- 集	ANN		¥ W	* *
Dietes grandiflora	fairy iris	•	*	ANN	₩	833	* *
Libertia grandiflora	mikoikoi, NZ iris	•	*	ANN		¥ W	* *
Libertia ixioides	mikoikoi, NZ iris	•	*	ANN ANN AND AND AND AND AND AND AND AND		¥ W	* *
Libertia peregrinans	creeping iris	•	*	ANN THE REAL PROPERTY OF THE PERTY OF THE PE		¥ W	* *
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BOTANICAL NAME	MAORI/COMMON NAME	PROVENANCE	LEAF RETENTION	PLANT FORM	MAHINGA KAI	ECOLOGICAL	SEASONALITY
		• LOCAL • NATIVE • EXOTIC	DECIDUOUS EVERGREEN	SHRUB G/COVER FERN GRASS/ STRAPPY	BUILDING MEDICINE CRAFT FOOD	BIRD INSECT LIZARD	FRUIT FLOWER AUTUMN COLOUR
Phormium cookianum 'Emerald Gem'	wharariki, mountain flax	•	*	A A	₩ %	Y W E	* *
Carex buchananii	buchanan's sedge	•	- 集	A. W.		£	*
Carex solandri	forest sedge	•	*	A STATE OF THE STA		P.	*
Carex virgata	swamp sedge	•	- 集	A. W.		¥ É	*
Chionochloa flavicans	haumata, miniature toe toe	•	*	3/4		Page 1	*
Chionochloa rigida	wī kura, narrow-leaved snow tussock	•	- 集				*
Festuca novae-zelandiae	fescue tussock, hard tussock	•	۹	A. W.		¥ &	*
Poa cita	wī, silver tussock	•	, \text{\tin}\text{\tex{\tex	M	₩ ₩	£	*
Achillea millefolium 'Terracotta'	common yarrow	•	, p	<u> </u>		X 3	*
Agastache foeniculum	anise hyssop	•	, o	SYD		933	*
Echinacea purpurea 'Magnus'	purple coneflower	•	, \text{\tin}\text{\tex{\tex	SYD.		333	* *
Felicia amelloides	blue marguerite	•	*	<u>S</u>		<i>S</i> 33	*
Helleborus orientalis	lenten rose	•	, o	MWW		333	*
Rudbeckia fulgida 'Goldstrum'	black eyed susan	•	, S	<u> </u>		<i>S</i> 33	*
Colchicim speciosum	autumn crocus, naked ladies	•	, s			<i>5</i> 33	*
Galanthus nivalis	snowdrops	•	<u></u>			W	*
Muscari armeniacum 'Touch of snow'	grape hyacinth	•	P			W	*
Narcissus 'Carlton'	carlton daffodil	•	Ą			W	*
Zephyranthes candida	rain lily	•	<u></u>			X 3	*

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5.14 Planting - Planter bed palette

SHRUBS



TARAKUPENGA Coprosma acerosa



WAIŪATUA Euphorbia glauca



CUSHION SPURGE Euphorbia 'Polychroma'



BUTTERFLY BUSH Gaura lindheimeri



MT ARTHUR HEBE Hebe albicans



QUICKSILVER HEBE Hebe pimeleoides 'Quicksilver'



LEGEND

taiao/ecology: integrate nature attract native wildlife and insects

mahinga kai value

rerehua/beauty: reflect the seasons seasonal interest taoka tuku iho/heritage: reinforce identity

WHIPCORD HEBE Hebe propingua



WIRI MIST HEBE Hebe 'Wiri Mist'



WIRI PRINCE Hebe 'Wiri Prince'



MĀNUKA Leptospermum scoparium 'Red Falls'



SILVER CUSHION Leucophyta brownii 'Silver nugget'



SNOW TOTARA Podocarpus nivalis



STONE CROP Sedum spectabile 'Autumn Joy'



PROSTRATE KŌWHAI Sophora prostrata 'Little Twister'

FERN



MOUKU Asplenium bulbiferum



ROUGH PIG FERN Hypolepis ambigua



PUNIU Polystichum vestitum

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GROUNDCOVERS



GLAUCOUS BIDI BIDI Acaena caesiiglauca



PURPLE BIDIBIDI Acaena inermis 'Purpurea'



RED BIDIBIDI Acaena novae-zelandiae



EVERLASTING DAISY Anaphalioides bellidioides



SIBERIAN TEA Bergenia cordifolia 'Bressingham White'



SAND COPROSMA Coprosma acerosa 'Hawera'



LEGEND

taiao/ecology: integrate nature attract native wildlife and insects

mahinga kai value

rerehua/beauty: reflect the seasons seasonal interest taoka tuku iho/heritage: reinforce identity

SAND COPROSMA Coprosma acerosa 'Red rock'



HOROKAHA Disphyma australe



CREEPING FUCHSIA Fuchsia procumbens



GUNNERA Gunnera prorepens



SHORE LEPTINELLA Leptinella dioica



TRACTOR SEAT Ligularia reniformis



RAUHUIA Linum monogynum

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PĀNAKENAKE Lobelia angulata



CREEPING POHUEHUE Muehlenbeckia axillaris



MARLBOROUGH ROCK DAISY Pachystegia insignis



PINĀTORO Pimelea prostrata



NZ DAPHNE Pimelea urvilleana



KŌKIHI Tetragonia implexicoma

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CREEPING THYME Thymus serpyllum 'Coccineus'

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DUNEDIN | kaunihera a-rohe o otepoti

FLAX & STRAPPY PLANTS



RENGARENGA Arthropodium cirratum 'Matapouri Bay'



KAKAHA Astelia fragrans



MOUNTAIN ASTELIA Astelia nervosa



TURF LILY Dianella revoluta 'Little Rev'



TURUTU Dianella nigra



FAIRY IRIS Dietes grandiflora



LEGEND

taiao/ecology: integrate nature attract native wildlife and insects

mahinga kai value

rerehua/beauty: reflect the seasons seasonal interest taoka tuku iho/heritage: reinforce identity

Libertia grandiflora



MIKOIKOI Libertia ixioides



CREEPING IRIS Libertia peregrinans



PURPLE LILY TURF Liriope muscari 'Royal purple'



WHARARIKI Phormium cookianum 'Emerald Gem'

GRASS, SEDGE & RUSH



BUCHANAN'S SEDGE Carex buchananii



FOREST SEDGE Carex solandri



SWAMP SEDGE Carex virgata



HAUMATA Chionochloa flavicans



WIKURA Chionochloa rigida



FESCUE TUSSOCK Festuca novae-zelandiae



WI Poa cita

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LEGEND

taiao/ecology: integrate nature attract native wildlife and insects

mahinga kai value

rerehua/beauty: reflect the seasons seasonal interest taoka tuku iho/heritage: reinforce identity Item



SEASONAL COLOUR



COMMON YARROW Achillea millefolium 'Terracotta'



ANISE HYSSOP Agastache foeniculum



PURPLE CONE FLOWER Echinacea purpurea 'Magnus'



BLUE MARGUERITE Felicia amelloides



LENTEN ROSE Helleborus orientalis



BLACK-EYED SUSAN Rudbeckia fulgida 'Goldstrum'

BULBS



AUTUMN CROCUS Colchicim speciosum



SNOWDROPS Galanthus nivalis



GRAPE HYACINTH Muscari armeniacum 'Touch of snow'



CARLTON DAFFODIL Narcissus 'Carlton'

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Appendices

6.0

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This section provides the technical appendices for the George Street Developed Design.

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6.1 Appendix A - Aukaha Cultural Narrative



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6.1 Appendix B - Technical drawings



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DUNEDIN | kaunihera a-rohe o Ottoberation



