

# ACTIVE TRANSPORT PROJECTS

## CAPABILITY STATEMENT

*"Together we create better places"*

## About

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Trading name:	Urban Solutions Limited
Legal name:	Urban Solutions Limited
Physical / postal address:	201 Victoria Street, West Auckland Central Auckland, 1141
Website:	<a href="http://www.urbansolutions.co.nz">www.urbansolutions.co.nz</a>
Country of residence:	New Zealand
Contact person:	Lorenzo Canal
Position:	Managing Director
Phone:	09 377 2332
Mobile:	021 748 006
Email:	<a href="mailto:lcanal@urbansolutions.co.nz">lcanal@urbansolutions.co.nz</a>

## Foreword

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Thank you for the opportunity to put forward our active transport capability statement which displays a variety of projects including; shared paths, bush tracks, cycleways, boardwalks, bridges and stairs. The attached document sets out our capability and portfolio for your general interest.

Urban Solutions has extensive experience in delivering significant active transport projects since our formation in 2001. We are adept and embrace closely working with local government client, local communities and mana whenua to complete elegant designs that endure the elements. Key projects have been highlighted in the portfolio section such as Tamaki Path, St Heliers boardwalk, Stonefields Heritage Trail and Pt Resolution Stairs to demonstrate a broad range of projects that we are involved with.

Offering a refreshing and compelling alternative to the limited number of large corporate consultants in the coastal sector, our clients appreciate the way we assemble and manage the right expertise, undertake meaningful consultation to guide projects and provide a complete level of professional services to deliver outstanding results on time and to budget. With the philosophy that "Together We Create Better Places", we believe in a collaboration between disciplines to achieve outcomes that are to a high quality, functional and aesthetically pleasing. We strengthen our core team of engineers, landscape architects and project managers by partnering with our strategic specialist consultants. Sharing office space with 4Sight and LDE provides Urban Solutions with specialist resources such as geotech, civil and structural engineering as well as resource consent planning and environmental assessments. By selecting the best people for the project we ensure we have the right mix of skills to deliver a result that you can expect.

We hope this capability statement is of interest to you and we are happy to work through any opportunities should you wish.

I look forward to hearing from you,

Sincerely,



**Lorenzo Canal**  
Managing Director  
Urban Solutions

Visit our website [www.urbansolutions.co.nz](http://www.urbansolutions.co.nz) to learn about our services and view our diverse range of projects.

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## Together We Create Better Places

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*Urban Solutions Limited is a multi-disciplinary project orientated consultancy that exists for the purpose of providing solutions for a growing urban habitat.*

Urban Solutions tailor and manage transformative infrastructure projects that engage with communities and support meaningful and prosperous growth for the city at large. We have a proven 16 year track record in delivering high-profile infrastructure projects in the public open space realm.

Our client's projects are diverse and our areas of expertise are wide. We have managed everything from playgrounds

to pipelines, coastal restoration to community buildings with an emphasis on mindful and elegant design that will stand the test of time.

We strive to strike the right balance between the old and the new, redressing biodiversity and environmental factors as they arise while redefining how we live and work better in public spaces. We understand and align ourselves with each new project and its associated issues. Our strength is envisioning fresh ways of inhabiting and interacting within our urban spaces, and then making it happen.

*"We get things done by combining project specific talent and the practical application of project management best practice. We are fuelled by a real passion for contributing to the success of a sustainable, vibrant and healthy New Zealand future. **Judge us by our significant achievements in a diverse range of urban projects.**"*

- Lorenzo Canal

# Strong and Effective Working Relationships

*"Professional and useful people with a passion for creating solutions"*

## Our Team



**Lorenzo Canal** BE MIPENZ, CPEng, IntPE  
Managing Director

Lorenzo Canal is a chartered professional engineer with over 20 years of experience. Primarily he specialises as an engineering project manager, planning and delivering government infrastructure based in Auckland.

He co-founded Urban Solutions Limited in 2001, a project management consultancy based in central Auckland. For the past decade, Lorenzo has managed a large number of complex, infrastructure projects and portfolios across the parks and reserves, roading and transport, stormwater, coastal and urban streetscapes sectors.



**Kirsten Dovey** BE (Hons)  
Project Engineer

Kirsten is a qualified and experienced engineer who has 12 years of experience in designing and supervising significant civil infrastructure and community asset projects.

Kirsten is experienced in administering and supervising NZS3910 type civil contracts. She has strong technical capabilities including a focus on ensuring projects conform to current legislative guidelines health and safety, and quality assurance and compliance.



**Jake Allen** BE (Hons)  
Civil Engineer

Jake is a results-driven civil and coastal engineer with an engineering background covering a range of roles.

Jake has worked a variety of projects including transport and civil structures and believes that good project management is about forming great relationships. He is an excellent communicator, an effective negotiator and passionate about projects that enhance the natural environment.



**Simon Gasson** BE (Hons)  
Project Manager

Simon is a project manager with a degree in engineering and expertise in project delivery.

He has experience working on projects with transmission lines and various electrical assets, where he developed his project management and communication skills to lead projects from start to finish. Simon delivers projects within the given timeframe and under budget. He especially enjoys projects associated around active transport such as shared paths and bush tracks.



**Chris Felton** PRINCE2  
Project Manager

Chris is a dedicated project manager with a work ethos of delivering excellent customer service.

He has 21 years of experience in the turf and golf course industry, with a further 5 years as a sports park specialist at Auckland Council, which has allowed for Chris to obtain a wide range of knowledge to ensure the needs of all stakeholders are met during project delivery. Chris believes that communication, planning and accountability are fundamental to successful Project Management and considers sustainability and the environment during all aspects of a project.

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**Per Lindstrom** BLA, MLA  
Landscape Architect

Per is a Landscape Architect from Sweden with a Bachelor and a Master of Science in Landscape Architecture.

He has gained experience in multidisciplinary areas such as civil design, landscape architecture and project management. Per is a team player who is passionate about communication across different disciplines and uses a variety of tools such as digital 3D modelling and rendering, virtual reality and artist's impressions to convey and communicate projects. He also has a strong interest in sustainable design solutions and takes any opportunity to use native plants where the context allows.

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**Maddie Palmer** BAS (Landscape), MLA  
Landscape Architect

Maddie is a landscape architect, who has an interest in designing recreation spaces within the public realm that are aesthetically unique and functional.

She believes in designing towards sustainable and resilient outcomes that achieve long-term resolutions. Maddie has experience in 2D and 3D programmes to create a range of concept and construction drawings, feasibility reports, rendered models and artist's impressions.

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**Sean Rooke** NZDS  
Surveyor

Sean is a surveyor with a National Diploma in Surveying from Technikon Natal. He is a professional and dedicated surveyor who produces high quality deliverables.

Over the past 20 years Sean has been involved with a wide range of surveying applications. Sean's experience ranges from boundary surveys in the high Arctic to engineering surveys for the Manukau Rail Link (DART 9). He is well versed in producing topographical surveys to the highest standard and understanding that comprehensive surveying sets the foundation for an effective project.

## Partnering Consultants

To complement our public open space project design and planning where needed, we regularly work with a number of specialist consultants that we share office space with. Below are a few key professionals who we regularly partner with from LDE, NZSTI and 4Sight.



**Aaron Holland** BEng (tech) MIPENZ CPEng  
LDE - Civil Engineer

Aaron has more than 25 years of engineering experience and is a Senior Chartered Civil Engineer.

He has managed numerous structural and civil design projects in the Auckland region and has experience in coastal infrastructure design and civil infrastructure development. Aaron also has experience in the design of jetties, boat ramps and sea walls and has conducted environmental engineering including flood level analysis, coastal inundation, erosion and sediment control planning.



**Simon Karl** BSC  
4Sight - Coastal Planner

Simon Karl from 4Sight is highly proficient at producing technical leadership of planning assessment and consenting components of projects. Simon is also well equipped to lead delivery of any ecological work or any contamination issues should they arise.

Simon is experienced at reviewing and understanding complicated engineering information, then preparing well written technical reports for government and commercial sectors. He is well versed in the high standards of ratepayer-focused services required for Local and Central Government projects.

# Typical Project Lifecycle

1

## KICK OFF

- Meet and Agree on Brief
- Offer of Service\*
- Sign Agreement
- Kick Off Project
- Project Plan



2

## INVESTIGATION PHASE

- Background Desktop Study
- Topographical Survey
- Geotechnical Investigation
- Preliminary Specialist Investigations
- Planning Assessment
- GIS and Property Assessment
- Asset Condition Assessments



3

## CONSULTATION AND ENGAGEMENT

- Engagement Strategy
- Iwi Engagement
- Public Consultation
- Stakeholder Consultation



4

## CONCEPT DESIGN

- Business Case
- Feasibility Study
- Concept Design
- Preliminary Cost Estimate
- 3D Model and Visualizations
- Client Review and Confirmation to Proceed With Preferred Option



5

## DEVELOPED DESIGN

- Consents Identification
- Developed Design Drawings
- Engineering Calculations
- Assessment of Environmental Effects



6

## APPROVALS

- Resource Consent
- Building Consent
- Engineering Approval
- Services Provider Approvals
- Landowner Approvals



7

## DETAILED DESIGN

- Detailed Design Drawings
- Safety in Design
- Engineer's Estimate
- Schedule of Prices
- Specifications



8

## PROCUREMENT

- Prepare Contract Documents
- Tender Evaluation
- Tender Analysis and Recommendation



9

## CONSTRUCTION MONITORING

- Act as Engineer to Contract (NZS3910)
- Site Meetings and Inspections
- Construction Monitoring
- Budget Management and Claims
- Health and Safety Audits



10

## PROJECT CLOSEOUT AND HANDOVER

- Practical Completion Certificate
- Final Completion Certificate
- Defects Period Monitoring
- Handover to Operations



\* Above typical project scope and lifecycle is specific to project needs

# Areas of Expertise



## COASTAL



- Seawalls & revetments
- Wharves, Jetties & Pontoons
  - Breakwaters
- Beach Replenishment
  - Boat Ramps
  - Marine Facilities
    - Drystack
- Sea Level Rise Adaptation
- Naturalistic Headlands and Groynes
  - Dune Restoration
  - Slipways



## NETWORK UTILITIES



- Public Stormwater
  - Drainage
  - Wetlands & Ponds
- Flood Protection Schemes
- Underground Utilities



## ACTIVE TRANSPORT



- Shared Paths
  - Footpaths
  - Bush Tracks
  - Cycleways
  - Boardwalks
    - Stairs
- Pedestrian Bridges
- Retaining Walls
- Amenity Lighting
- Kauri Dieback Mitigation



## PROJECT MANAGEMENT



- Client Side Project Management
  - Programme and Portfolio Management
- Business Cases and Project Strategy
  - Project Planning and Reporting
- Procurement Strategy, Tendering and Contract Management
  - Risk and Issue Management
- Cost Management and Quantity Surveying
- Stakeholder and Iwi Engagement
  - Professional Services Contract Management
- NZS3910 Contract Management and Engineer to Contract
- Project Closeout and Operational Handover



## PUBLIC OPEN SPACES



- Carparks
- Streetscapes
- Playgrounds
- Soft Landscaping
- Courts & Hard Surfaces
  - Lighting
- Street Furniture
- Art Installation
- Fitness Equipment
  - Park Assets
- Sports Fields & Turfs
- Changing Rooms & Toilets
  - Building Renewals

# Active Transport Portfolio

Our portfolio shows a depth and breadth of experience in designing well-functioning, environmentally sustainable and elegantly designed active transport projects. The projects outlined have all been well received by our clients and the community.

## St Heliers Boardwalk

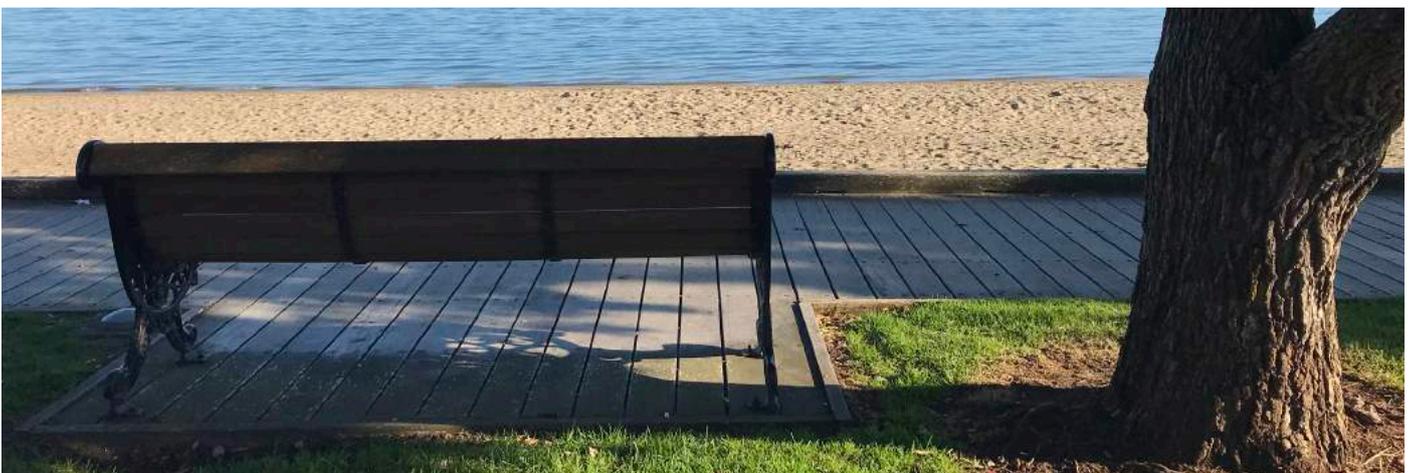
St Heliers, Auckland

- Client:** Auckland Council
- Completion:** 2009
- Services:** Project Management
- Scope:** Esplanade Reserve including Timber Boardwalk and Landscaping
- Budget:** \$1 million

For the past decade, Urban Solutions have provided Auckland Council with full project management services to deliver a variety of beach replenishment projects which include: Mission Bay, Kohimarama, St Heliers, Pt Chevalier, Herne Bay, Taylors Bay, Blockhouse Bay, Sentinel Beach, Hamilton Beach and the most recent at Point England.

The St Heliers Boardwalk was constructed to compliment St Heliers beach, providing a pleasant and comfortable setting for a seaside stroll with great views to Rangitoto Island. At the end of the boardwalk there is a well equipped playground which offers a recreational amenity within the natural environment.

Urban Solutions provided full project management services from concept to completion. Urban Solutions acted as Engineer or engineer's representative to contract for all NZS3910 contracts.



## Stonefields Heritage Trail

Stonefields, Auckland

**Client:** Auckland Council

**Completion:** 2016

**Services:** Engineering Services,  
Project Management

**Scope:** Heritage Trail within a  
disused quarry bench

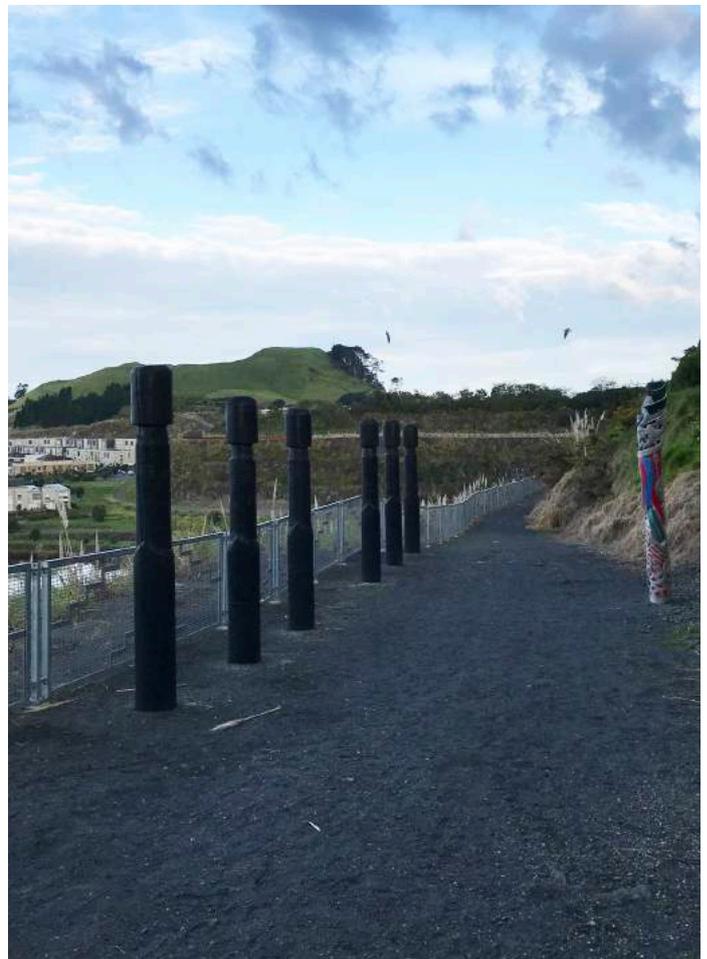
**Budget:** \$1.4 million

The Stonefields Heritage Walkway is a path located along the cliffs on the southwest side of the old Mt Wellington Quarry. The path runs adjacent to existing basalt benches before passing by a short section of open terrain.

Overlooking the new Stonefields residential development, the path runs beneath commercial and residential properties positioned at the top of the cliffs. This unique site location presented a number of constraints including Safety in Design issues associated with the risk of fall, CPTED and constructibility due to difficult access.

The site also was an opportunity to work alongside iwi to include cultural principles and elements into the design such as carved pou. Iwi consultation led to a unique identity being created for the trail including carved pou and bespoke handrails. During the design process, the trail was constructed using virtual reality to show stakeholders and iwi the vision of the completed path.

Urban Solutions provided engineering and project management services to Auckland Council during the developed design. We were involved with design and consent management, cost scheduling, procurement, construction methodology and iwi consultation.



# Taruheru River Path

Gisborne

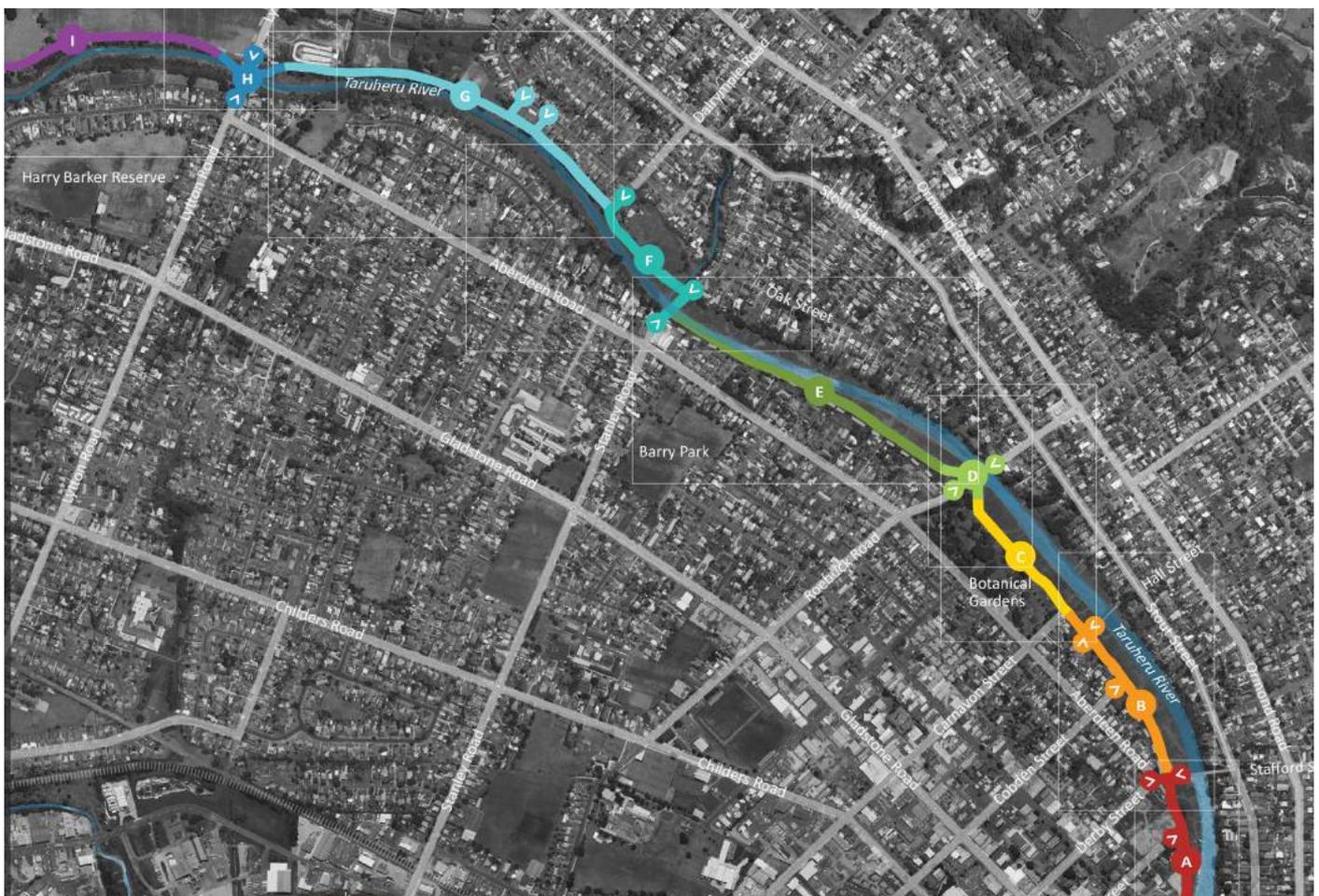
- Client:** Gisborne District Council
- Completion:** 2016
- Services:** Feasibility Study
- Scope:** Timber Boardwalk and Concrete Paths along and within the Taruheru River
- Budget:** \$7 million

Taruheru River Path envisions a shared path along the banks of the Taruheru River extending from the current shared path from Bright Street through to Campion Road. This proposal would enable greater use of facilities, serving a wider range of destinations through the creation of connections to local centres, schools and transport links.

The Taruheru River Path offers an urban transport corridor, recreation and tourism benefits that would essentially create a central park through the city and the waterfront. A key consideration during the design process was for the shared path to survive and recover from flood events, without a significant maintenance burden.

The extension of walkways and cycleways has been well supported during the Council's 10 year and annual planning processes. This proposal will give effect to the commitment of Council to provide improved walking and cycling facilities within the City.

Urban Solutions were engaged to provide project management services for the feasibility assessment, to achieve the vision of Gisborne District Council through assisting in decision making on feasibility, timing and funding.



## Pt Resolution Stairs

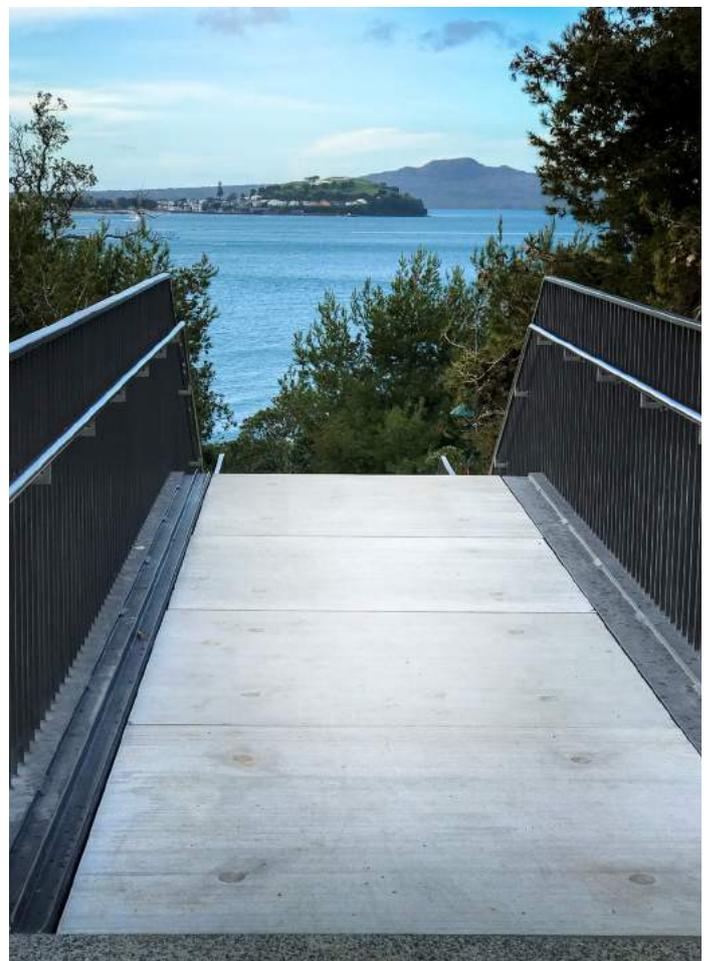
Parnell, Auckland

- Client:** Auckland Council
- Completion:** 2017
- Services:** Project Management, Engineer to Contract
- Scope:** Stair Replacement and Stabilization of Cliff Face
- Budget:** \$635,000

The new Pt Resolution Stairs replace the existing poor condition timber and concrete steps with a design that is more stable and matches the lower stairs, providing a continuity of design for the whole headland.

The scope included 4 flights of new stairs constructed of steel and concrete to match the existing steps further down the headland. This section completes the upgrade of the pedestrian link between Tamaki Drive, Parnell Baths and the reserve at the top of Pt Resolution/Taurarua. The challenges for this project were the piling and difficult access due to the instability of the headland.

Urban Solutions provided the contract management and construction supervision for stairs at Pt Resolution.



# Tamaki Path

Point England, Auckland

- Client:** Auckland Council
- Completion:** Ongoing
- Services:** Project Management and Engagement, Engineer to Contract, Construction Monitoring
- Scope:** 5km Shared Path
- Budget:** \$4.1 Million

The Tāmaki Path project (also referred to as the Tāmaki Estuary Greenway) has been identified as a priority connection in the Maungakiekie-Tamaki Local Board’s adopted greenways plan. The Tamaki Path project develops a continuous 5km greenway path from Wai-o-taiki Reserve to Panmure Wharf, passing through a variety of environments including coastal edge reserves, native bush, mown grass, grazed paddock and recreational areas.

The greenway path is scheduled to be implemented in two consecutive stages as follows:

*Stage One:* (Wai-o-Taiki to Point England Reserve, north of Omaru Creek (3km of new and widened concrete path between 2.5 to 3m wide)

*Stage Two:* (Riverside Reserve and Dunkirk Reserve connecting with Point England Reserve through Mount Wellington War Memorial Reserve and Panmure Wharf).

Tamaki Path will contribute positively to the cycling/walking network, linking to the City Centre. The Greenway will provide recreational opportunities at the reserves and improve accessibility to the coastal edge.



## Western Park Paving and Structures

Freeman's Bay, Auckland

**Client:** Auckland Council

**Completion:** 2018

**Services:** Design, Project Management, Construction Monitoring

**Scope:** 100m of Elevated Timber Boardwalk, 100m of Concrete Steps

**Budget:** \$335,000

The renewal of the Western Park arterial recreation paths was undertaken in 2016 and was the first stage of a \$1.4m multi-year renewal programme. Stage 2 was undertaken in 2017, involving the renewal of the Western Commuter Route and the remaining arterial recreation paths in conjunction with the Western Park Playground.

Stage 3 involved the upgrade of a well utilised connecting path. These improvements includes a 1.5m wide, 100m long elevated timber boardwalk along the Hopetoun Street Connection. 100m of 1.5m wide concrete steps were also included within this stage, with bluestone capping pavers to be fixed to the stairs at the Hopetoun Entrance End.

Urban Solutions was engaged to facilitate the design, consenting and authorities for this stage.



# Business Information

## Health and Safety Policy

Urban Solutions Limited (the Company) regard the promotion of Health and Safety measures as an objective of directors, management, staff and contract personnel. The policy is written for the protection and maintenance of the health and safety of the Company's workers on the work site. The Company is committed to taking all steps necessary to reduce health and safety risks to as low as reasonably practicable.

### **The Company will achieve this by:**

- Complying with the requirements of the Health and Safety at Work Act 2015;
- Providing and maintaining safe working conditions taking into account statutory requirements to promote an accident free workplace;
- Ensuring that all employees have read and understood, and have access to the Company Health and Safety Policy which is stored in the head office as well as in a shared online folder accessible to all staff and subcontractors.
- Promoting a health and safety conscious culture;
- Providing procedures, training and equipment necessary to reduce risk of employees being harmed while at work;
- Placing health and safety issues before commercial interests;
- Recording and investigating all accidents and near misses that may occur;
- Ensuring that specific hazards to the public related to works controlled by the Company are identified in the site specific safety plan and safeguards are in place and audited to prevent, control or mitigate risk of harm.

All employees have been consulted and agree with the aforementioned to conform to this policy. All Company employees are reminded that they have a legal responsibility to take reasonable care for the health and safety of themselves, their colleagues and any visitors to Company premises or worksites.

## Health and Safety Pre-qualification

Urban Solutions is currently pre-qualified by impac Prequal Cat 2 with a 5 star rating. Valid from 19 May 2017 to 19 May 2019.

## Sustainability Policy

Urban Solutions Limited is committed to leading the industry in minimising the impact of its activities on the environment.

### **The key points of its strategy to achieve this are:**

- Actively promote recycling both internally and amongst its customers and suppliers.
- Meet or exceed all the environmental legislation that relates to the Company.
- Commit to a shared office based accredited program to offset the greenhouse gas emissions generated by our activities with like minded organisations.
- Minimise waste by evaluating our office and field based activities and ensuring they are as efficient as possible.
- Evaluate our transportation activities and minimize greenhouse emissions and wisely use energy sources.

