Parkburn Boat Ramp / Jetty

922 Luggate - Cromwell Road

File Number 26138

ENGCO Consulting Engineers

CHRISTCHURCH NELSON QUEENSTOWN WANAKA

STRUCTURAL CONCEPT DRAWINGS

Issue Register

Rev	Date	Description
C	24.09.2026	Fast Track Resource Consent

Sheet List - Parkburn Cycleway Bridge

Sheet No.	Rev	Date Issued	Sheet Title
S10	C	24.09.2026	Site Plan
S11	C	24.09.2026	Boat Ramp & Jetty Indicative Layout

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contractor shall verify all dimensions before commencing work



Site Plan

1 : 5000

Landpro drawing 24113-107_01

ORIGINAL SIZE = A3

revisions

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Site Plan

design	P. Cammock
drawn	P. Collins
appvd	A. Lind
date	September 2026

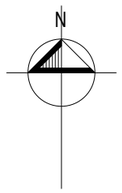
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dwg S10

rev. C

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Apron Slab Approach
Transition curve to top of boat ramp.
Minimum 150mm thick reinforced concrete slab over minimum 150mm compacted AP40 hardfill.
Extent to conventional access/road pavement TBC during detailed design including appropriate joints and transition details.

Launch/Retrieval Boat Ramp
Reinforced Concrete Ramp, minimum 200mm thick
Reinforced with minimum HD12-200crs each way top and bottom over minimum 150mm compacted AP40 hardfill.
Provide dowelled transverse joints for multiple panel pours
Roughened/slip resistant finish,
(final surface to consider slip resistance during frosts).
Provide end toe beam and edge thickenings for scour/wave protection.

Lakeside Pedestrian Ramps
Series of foam filled concrete pontoons or similar with side fendering. Pontoon design to accommodate internal pile pockets

Shoreside Pedestrian Ramps
Reinforced concrete ramps minimum 150mm thick.
Roughened/slip resistant finish,
(final surface to consider slip resistance during frosts)
Pivoting proprietary gangway or fabricated deck plate at transition to floating pontoons to accommodate lake level fluctuations.

Pedestrian Walkway Piles
Bored steel cased concrete piles to minimum 2m embedment into competent gravels, subject to detailed geotechnical investigations and berthing requirements

Jetty Access Ramp
Reinforced concrete ramp minimum 125mm thick.
Perimeter thickenings with top and bottom keys to mitigate downward slope sliding and for scour/wave protection.
Roughened/slip resistant finish, (final surface to consider slip resistance during frosts).
Pivoting proprietary gangway or fabricated deck plate at transition to floating pontoons to accommodate lake level fluctuations.

Jetty Piles
Bored steel cased concrete piles to minimum 2m embedment into competent gravels, subject to detailed geotechnical investigations and berthing requirements.

Floating Jetty
Singular or Series of foam filled concrete pontoons or similar with side fendering.
Pontoon design to accommodate internal pile pockets.

NOTES:
1. Systems and solutions have been marked up indicative over the Woods Parkburn Boat Ramp / Jetty Indicative Layout drawing dated 10/09/26.
2. Structure is at a level that is reflective of concept design. Final structural systems, materials, solutions and extents to be confirmed and detailed as part of future design development stages.

Construction Philosophy and Environmental Considerations
Construction is to be in general accordance with the Landpro Draft Environmental Management Plan (EMP) dated 17 July 2026, specifically Section 5.1.5.2.

The conceptual intent is to:
a. Install floating boom with silt curtain across full width of existing inlets prior to start of cove earthworks.
b. Install DWB/CWB upslope of landward cove earthworks to divert upslope runoff from interior of property away from cove works, should rainfall occur during those works.
c. Excavate landward side of coves first – remove existing boundary bunds. Insight Engineering note that excavation down to or below 195 masl may require dewatering via sump pump to a protected outlet or infiltration basin within the property. Install landward cove edge protection via rock armouring.
d. Use long reach excavator on stabilised gravel platform to excavate the in-water portion of the cove from the shore, where possible.
e. Where required, use excavator on floating platform/barge to excavate cut on landward side of silt curtain.
f. Cut material to be transferred to truck for stockpiling/reuse in the interior of the site.
g. Construct jetty and boat ramp in the newly formed dry cove (bored cased piles, floating pontoons, boat ramp, pedestrian ramps, and apron slab).
h. Breach lake into newly constructed cove.
i. Silt curtain removed once all in-water works are complete, and suspended sediment has settled out of the water column.

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