

**Date:** Wednesday 7 May 2025  
**Time:** 10.00am  
**Meeting Room:** Kaipātiki Local Board Office  
**Venue:** 90 Bentley Avenue  
 Glenfield

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## Kaipātiki Local Board Workshop

### OPEN ATTACHMENTS

#### ATTACHMENTS UNDER SEPARATE COVER

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# Storm damage remedial track updates for Le Roys Bush Reserve and Leigh Reserve

Kaipātiki Local Board – 7 May 2025 Workshop

Leigh Radovan - Senior Project Manager – PSO – Parks and Community Facilities





## Purpose

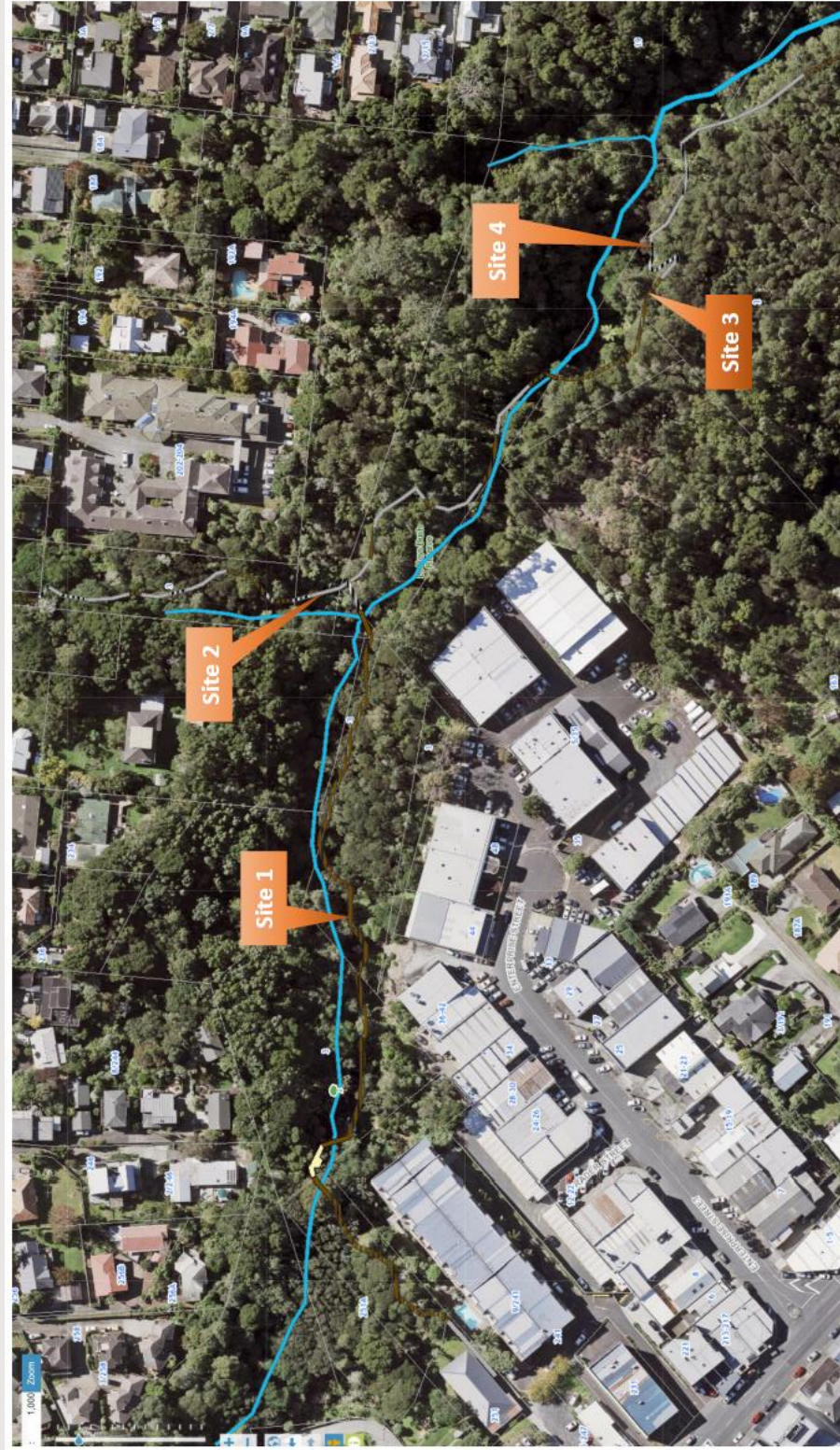


To provide an update to and gain feedback from the local board on the storm damage projects from the January 2023 storms.

- Le Roys Reserve Slip 1 – under procurement.
- Le Roys Reserve Slips 2-4 – detailed design and consenting underway.
- Leigh Reserve – detailed design and consenting underway.

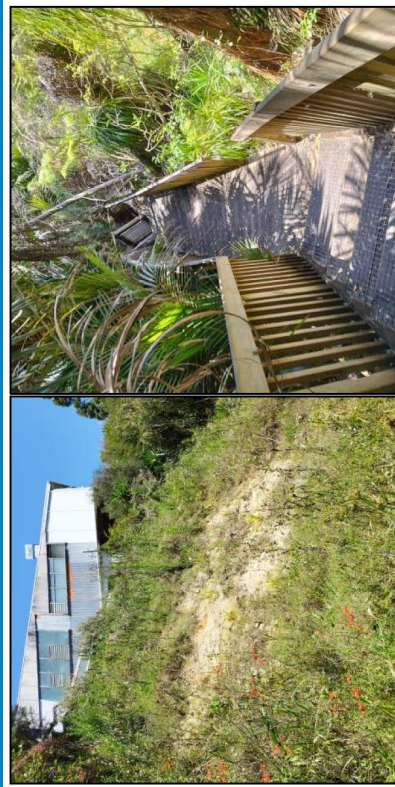


# Le Roys Slip's Aerial Slide



## Le Roys Slip 1 under procurement – for information only

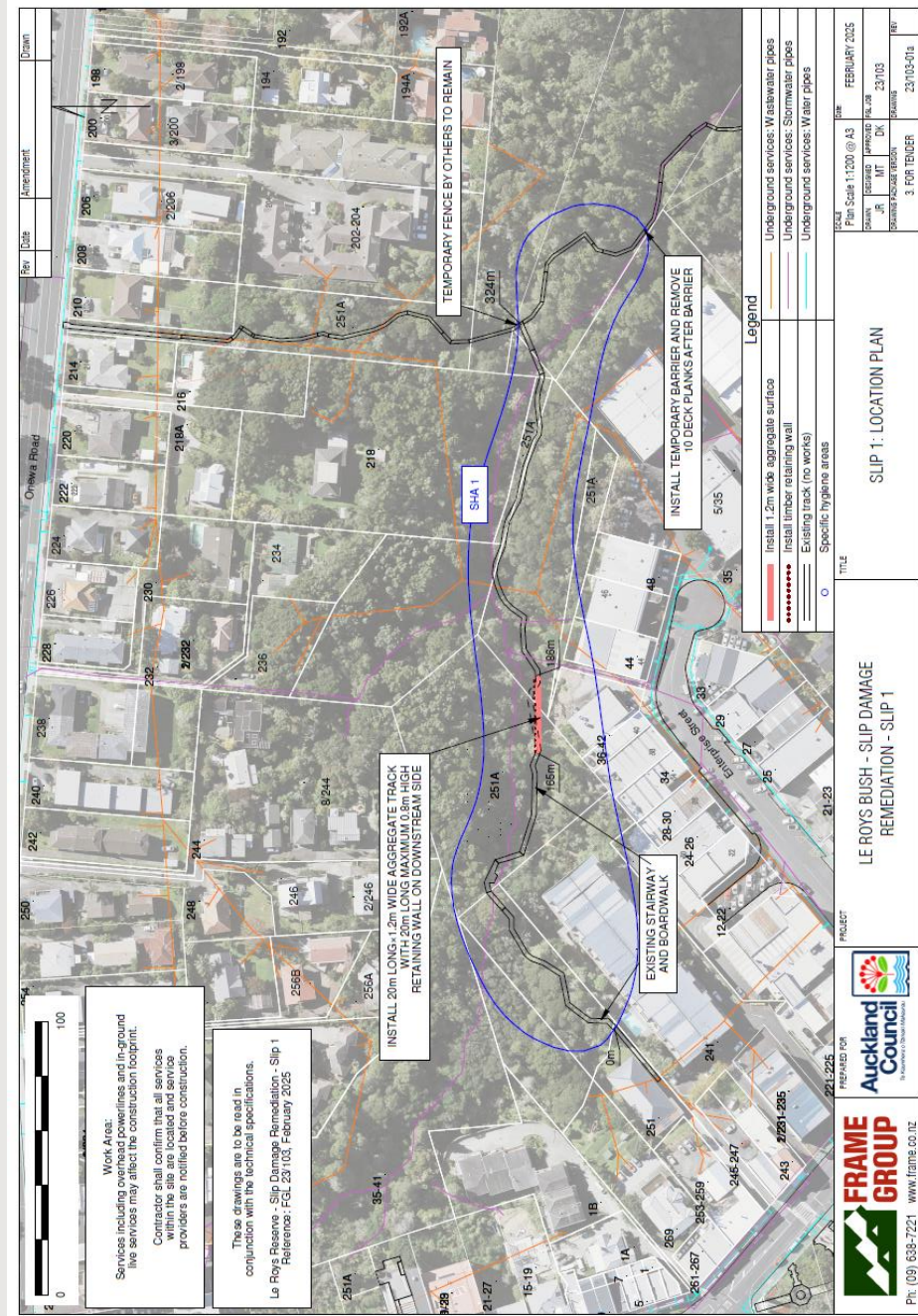
- Install 20m long x 1.2m wide aggregate track with 20m long maximum 0.8m high retaining wall on downstream side.
- Currently in procurement for approval – contract awarded 16 April 25.
- Prestart end of April.
- Completion by 30 June 2025.
- Please note that even with Slip One completed this will still not provide access to the rest of the track until the other three slips are upgraded.



(Right Photo: shows the exposed soils because of the slip. Left Photo: shows the pathway alignment. Date Taken: 15/01/2024)



# Le Roys Slip 1 – in procurement for awarding contract



## Le Roys Slip 2 – detailed design (ready for consent)

- Install 10.9m long x 1.2m wide boardwalk.
- Reposition existing 7.5 long by 2m wide staircase up side of historic slip.
- Install 4.5m long by 1.2m wide timber bridge.
- Install 1.6m long by 1.2m wide timber staircase.
- Install 1.2m wide aggregate track.
- Consenting is underway for SLIPS 2-4.
- Savings can be achieved if SLIPs 2-4 are completed at the same time to save on separate P&G costs for each slip.



(Right Photo: shows the exposed pipe and the undermined pathway. Left Photo: shows the extent of the scouring downslope of a bridge. Date Taken: 15/01/2024)





## Le Roys SLIP 2 – Geotechnical Report

Geotechnical report and Memo attached with presentation for information.

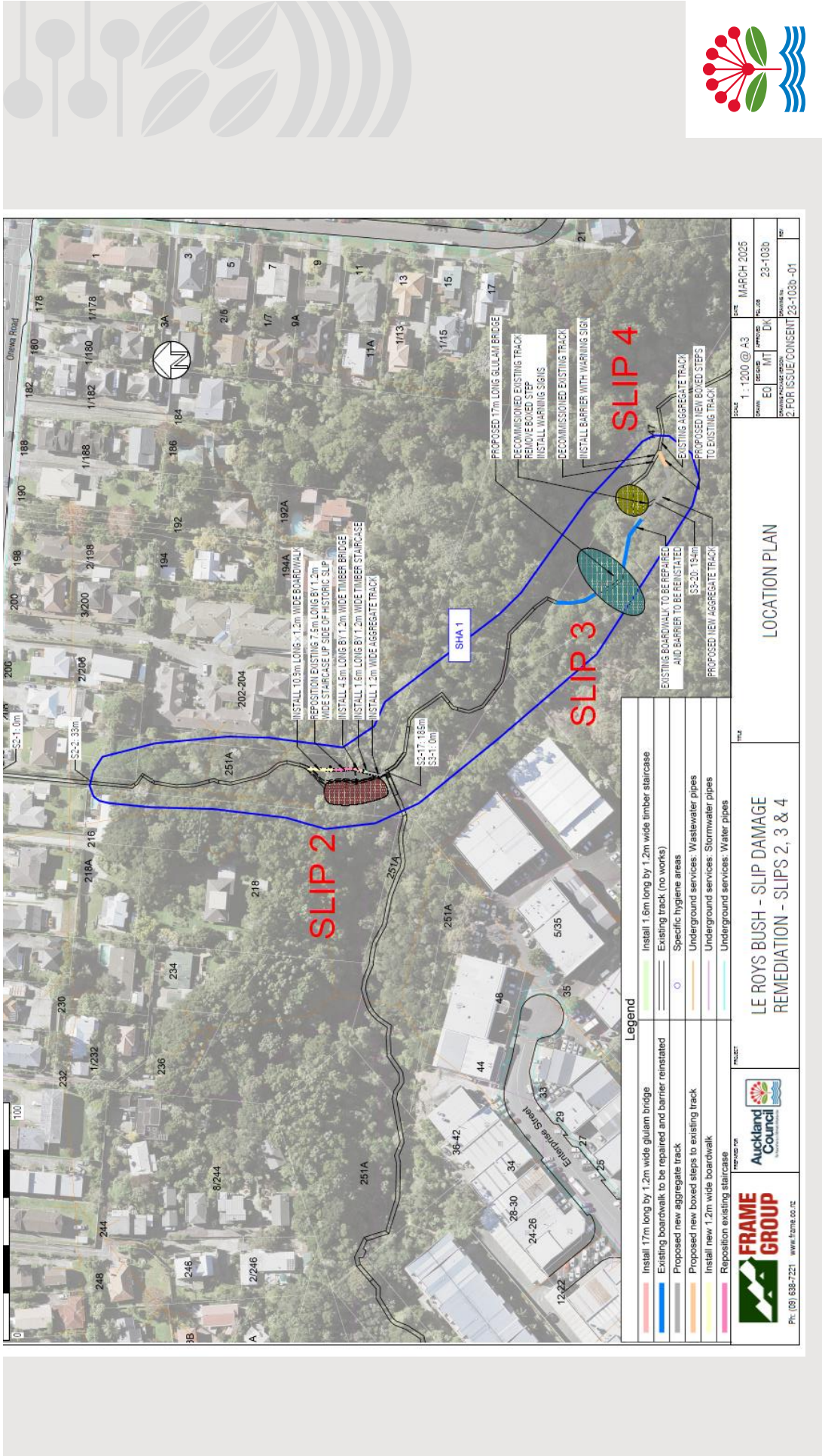
Please note all designs completed by Frame Group have been in conjunction with the Geotechnical Report requirements.

Figure 3: Left Photo - 1961 Aerial Photo Right Photo – 2017 Aerial Photo



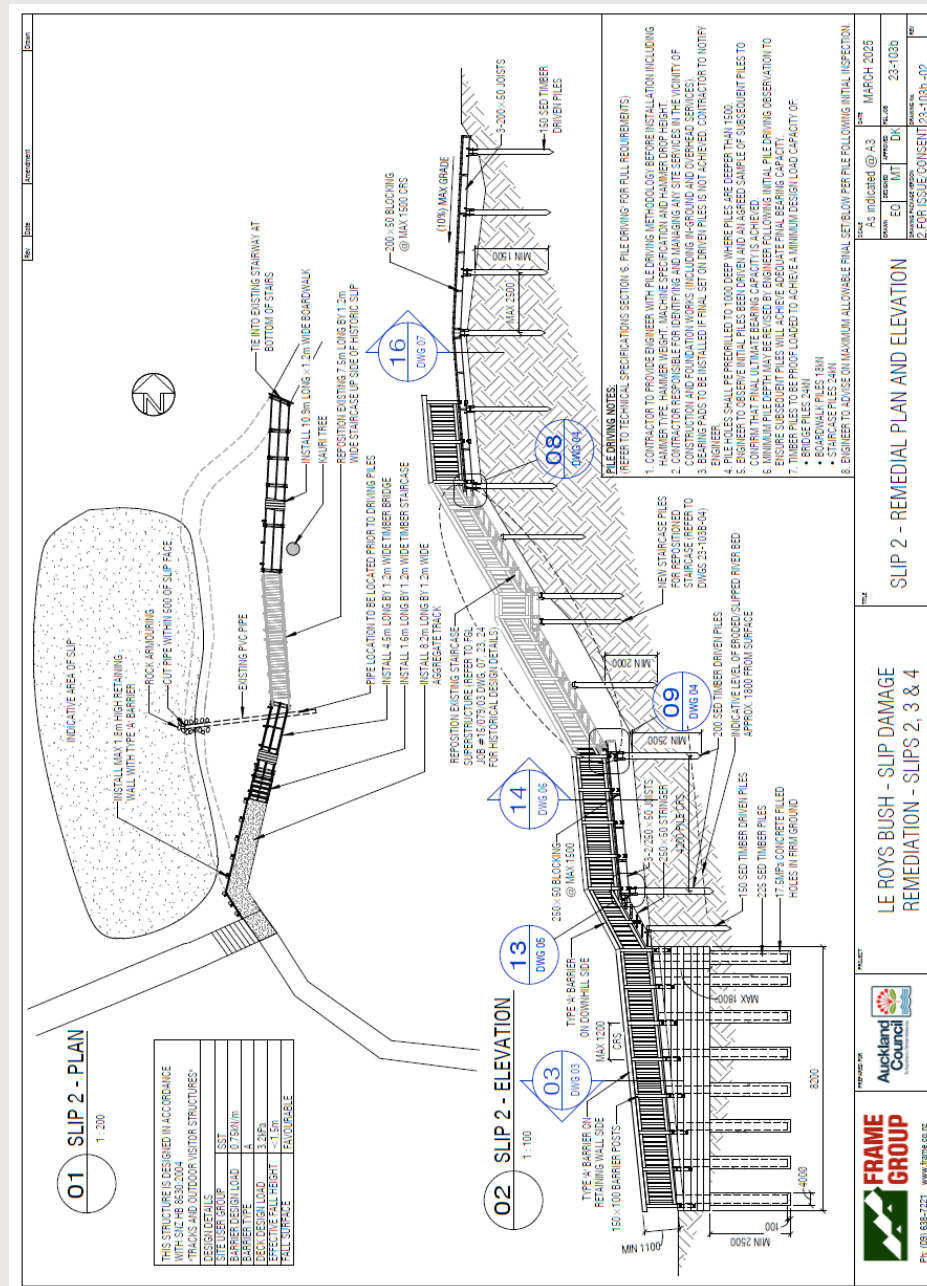
(Source: [retrolens](#), accessed on 13/02/2024)





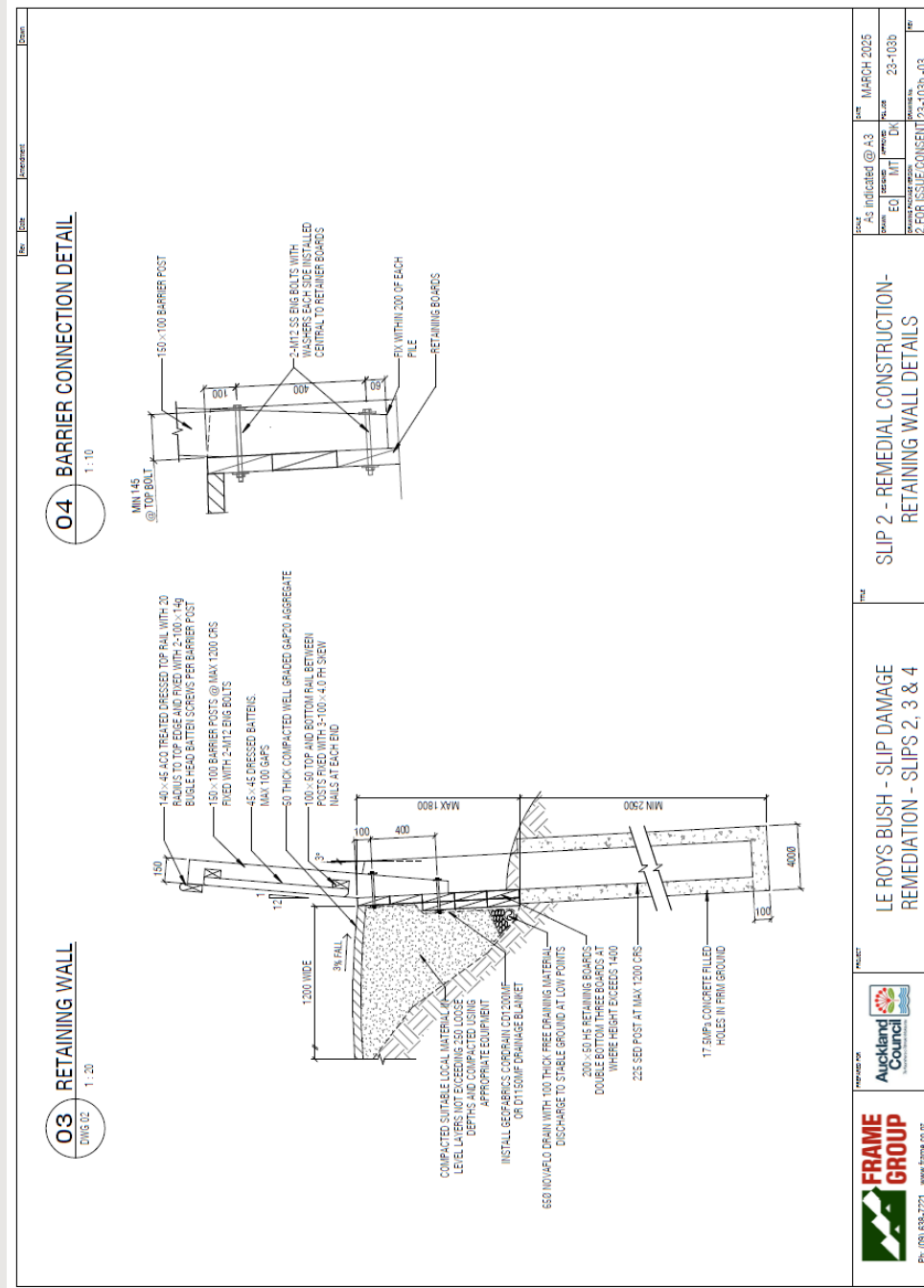


# Le Roys Slip 2 – Remedial Plan and Elevation





# Le Roys Slip 2 – retaining wall details



# Le Roys Slip 2 - existing staircase construction details

**05 EXISTING STAIRCASE LANDING SHOWING NEW PILES.**  
1:25  
Labels: REPOSITION EXISTING STAIRCASE SUPERSTRUCTURE, M12 BIG BOLT, 150x50 S&S BEARER NOTCH S&S INTO PILES, 150 SED. DRIVEN TIMBER PILE, MIN 2000, 1200 PILE CPG.

**06 EXISTING STAIRCASE JUNCTION PLAN.**  
1:30  
Labels: REPOSITION EXISTING STAIRCASE, M16 BIG BOLT.

**07 EXISTING STAIRCASE SUPPORT DETAIL.**  
1:30  
Labels: REPOSITION EXISTING STAIRCASE, M12 BIG BOLT, 150x50 BEARER NOTCH S&S, 150 SED. DRIVEN TIMBER PILES, 2x LUMBERLOK CT160 SS CEILING TIES PER STRINGER TO BEARER CONNECTION.

**08 EXISTING STAIRCASE TO BOARDWALK CONNECTION.**  
1:10  
Labels: REPOSITION EXISTING STAIRCASE, 300 FLAT, MIN 80, TO MATCH EXISTING, M16 BIG BOLT, 200x50 BLOODING, 300x50 BOARDWALK JOISTS, M12 BIG BOLT, 150x50 BEARER, 150 SED. TIMBER DRIVEN PILES.

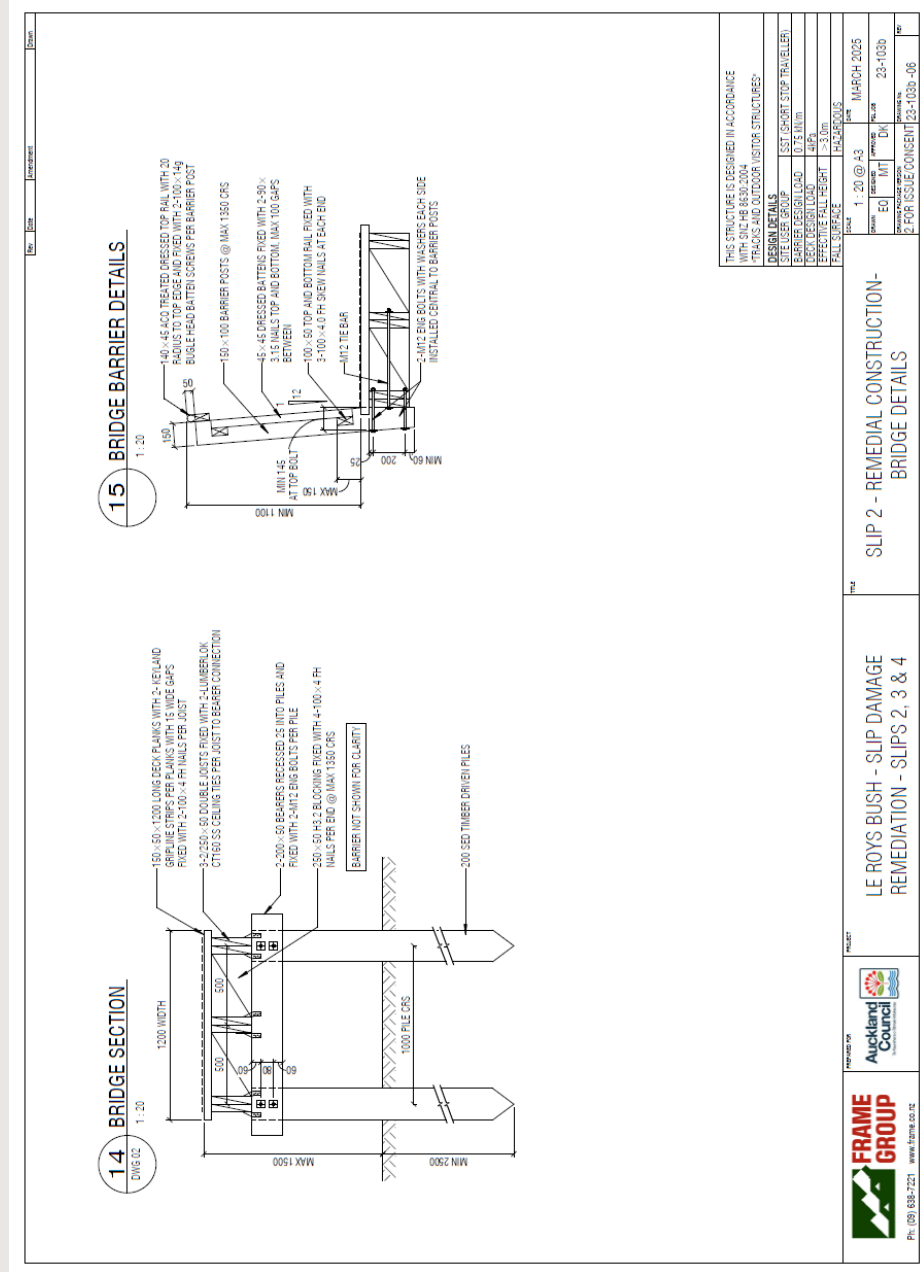
**09 BRIDGE TO STAIR CONNECTION DETAIL.**  
1:20  
Labels: 100x100x1400 LONG CONNECTOR PLATE FIXED TO STRINGER WITH 3x100x4 FH SKEW NAILS PER STRINGER, 300 FLAT, 2x LUMBERLOK CT160 SS CEILING TIES PER STRINGER TO CONNECTOR PLATE CONNECTION, REPOSITION EXISTING STAIRCASE, 30MMx60 BUSH AND 2x M12 BIG BOLTS, TRIM JOIST TO CREATE FLAT, 200x50 BEARER, 200x50 BRIDGE BLOODING, 200 SED. TIMBER DRIVEN BRIDGE PILES, 2x M12 BIG BOLTS.



 Ph: (09) 688-7221 www.frame.co.nz	PREPARED FOR <b>Auckland Council</b>	TITLE LE ROYS BUSH - SLIP DAMAGE REMEDIATION - SLIPS 2, 3 & 4	SLIP 2 - EXISTING STAIRCASE CONSTRUCTION DETAILS	DATE MARCH 2025
PROJECT NO. 23-103b	DRAWING NO. 23-103b-04	SCALE AS INDICATED @ A3	REVISIONS 1. EQ M 2. FOR ISSUE/CONSENT 23-103b-04	DATE 23-103b



# Le Roys Slip 2 – Remedial construction bridge details



# Le Roys Slip 2 – boardwalk details

### 16 BOARDWALK SECTION

150 x 50 x 1500 LONG DECK PLANKS WITH 2-1/2" THICK STRIPS FOR PLANK TO PLANK JOINTS  
150 x 50 x 1500 JOISTS RIGIDLY FASTENED TO BEARERS  
3-2000 x 50 JOISTS RIGID WITH 2-LUMBERLOK CT160 SS CEILING TIES PER JOIST TO BEARER CONNECTION  
BEARER NOT SHOWN FOR CLARITY  
3-150 x 60 BEARERS RECESSED SS INTO PILES AND RIGID WITH 2-M12 BUSH BOLTS  
2-200 x 50 H3.3 BLOCKING RIGID WITH 4-100 x 4 FH NAILS PER BID @ MAX 1500 CRS  
150 S6D TIMBER DRIVEN PILES  
1000 PILE CRS  
MIN 1500  
MAX 1000  
EQ  
EQ  
1500 WIDTH  
1:30

### 17 BOARDWALK BARRIER DETAILS

### 18 BOARDWALK PILE CONNECTION

### 19 TYPICAL BOARDWALK CURVE

THIS STRUCTURE IS DESIGNED IN ACCORDANCE WITH NZS 3604:2004 "TRAFFIC AND OUTDOOR VISITOR STRUCTURES"	
DESIGN DETAILS	
SITE USER GROUP	SST (SHORT STOP TRAVELLER)
DESIGNER	0.75 M.M.
DECK DESIGN LOAD	4kPa
WIND SPEED (10M HEIGHT)	> 30m
FALL RISK	PHASE 2/3
AS INDICATED @ A3	MARCH 2025
DATE	
REVISED BY	DN
REVISED DATE	23-10-20
FOR ISSUE/CONSENT	23-10-20-07

Ph: (09) 838-7221 www.frame.co.nz

PREPARED FOR  
**Auckland Council**  
aucklandcouncil.govt.nz

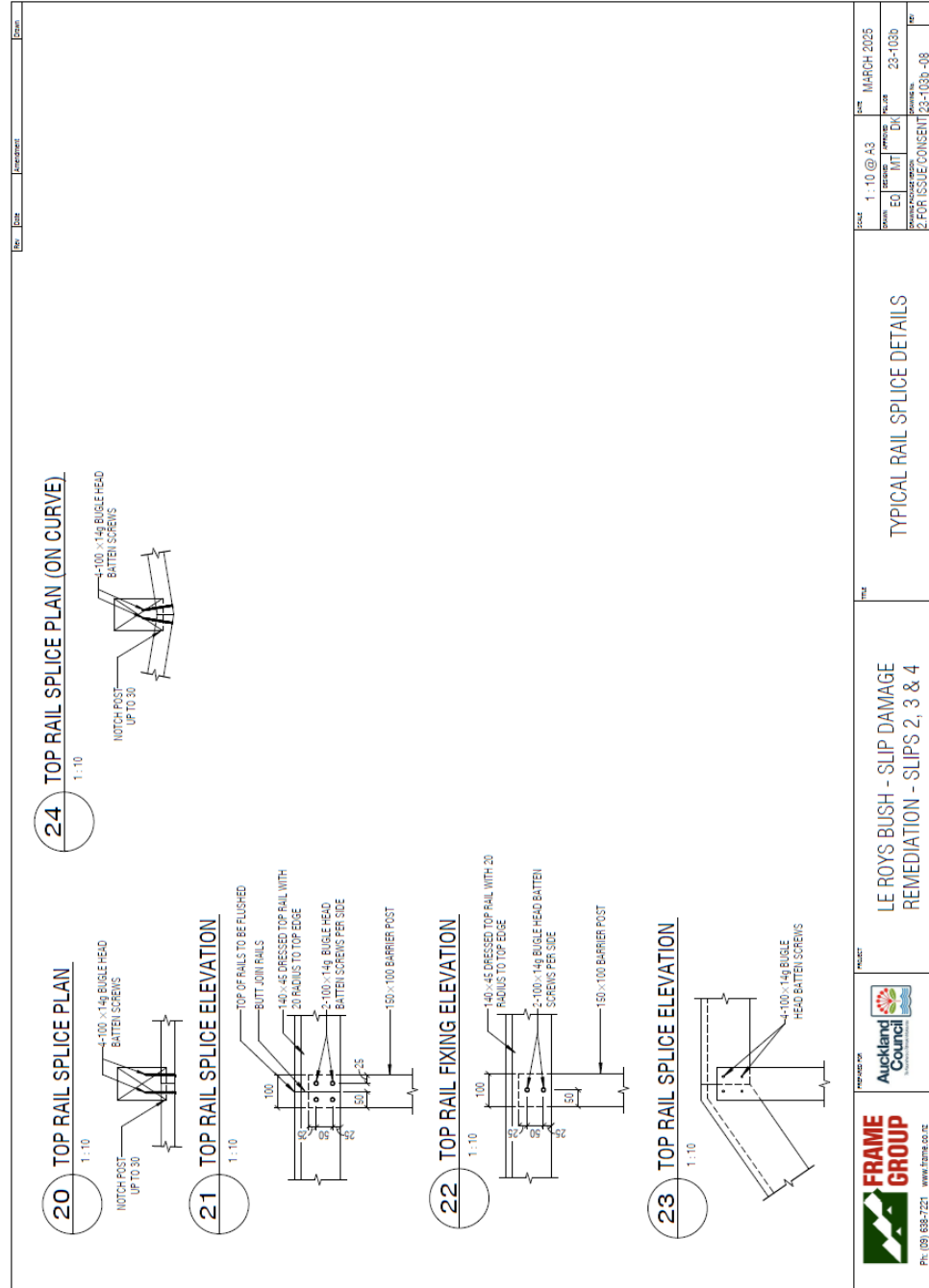
PROJECT  
**LE ROYS BUSH - SLIP DAMAGE REMEDIATION - SLIPS 2, 3 & 4**

TYPE  
**SLIP 2 - REMEDIAL CONSTRUCTION- BOARDWALK DETAILS**



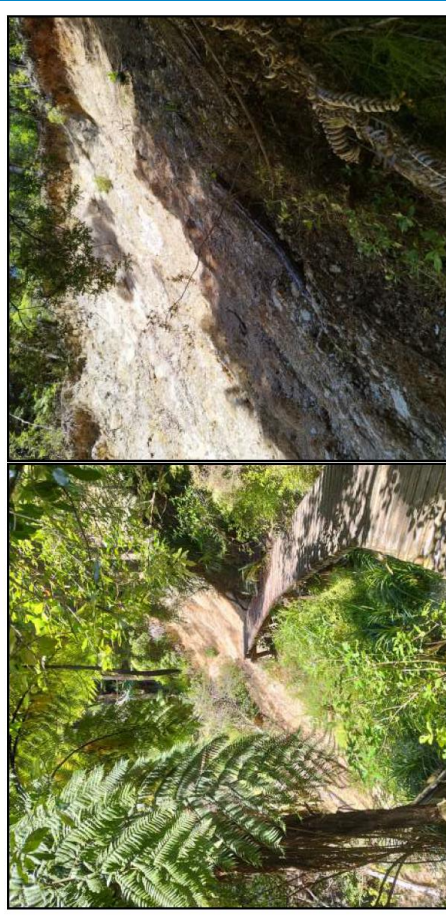


# Le Roys Slip 2 – typical rail splice details



## Le Roys Slip 3 – detailed design

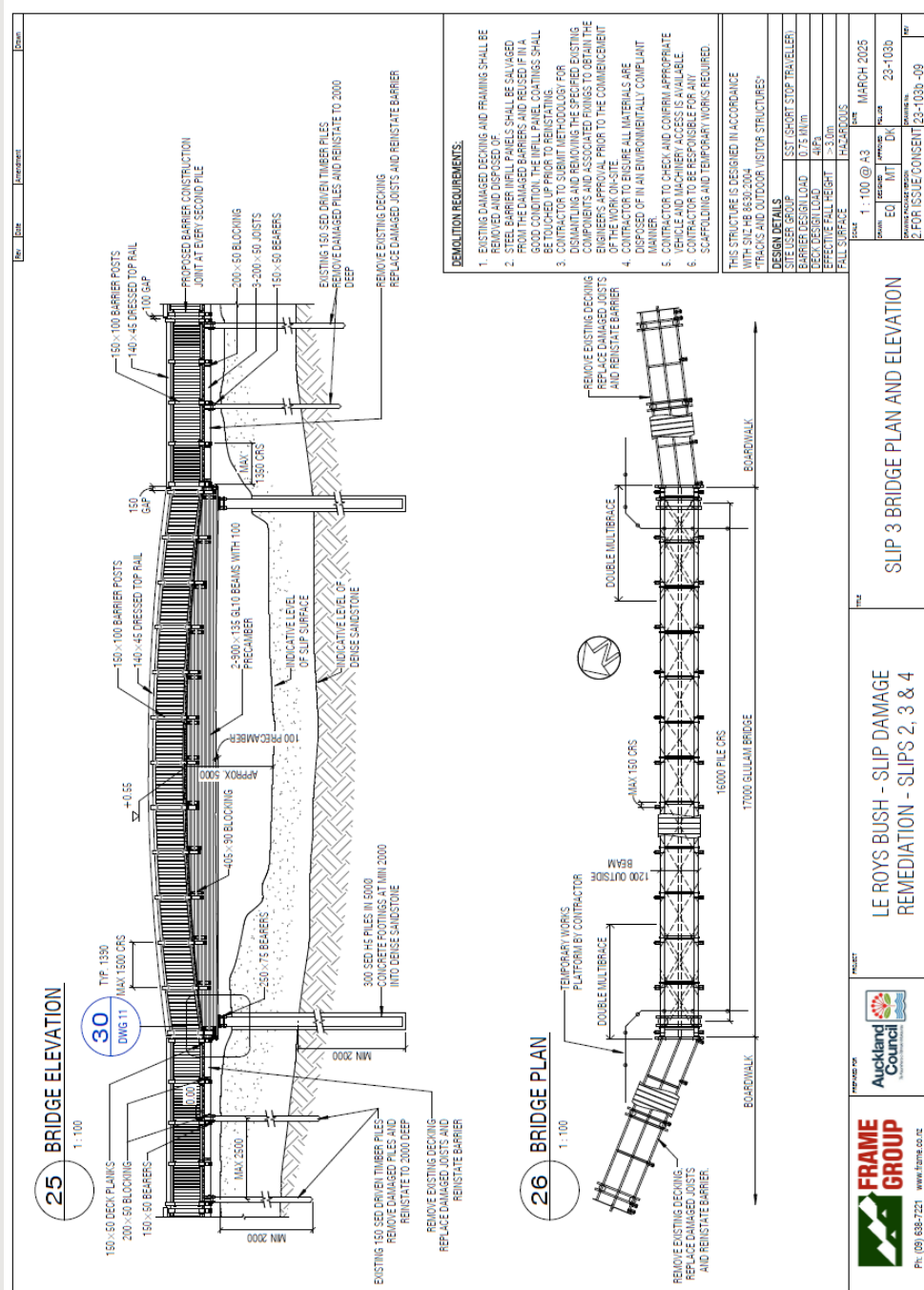
- Proposed 17m long glulam bridge.
- Consenting is underway for SLIPS 2-4.
- Savings can be achieved if SLIPS 2-4 are completed at the same time to save on separate P&G costs for each slip.

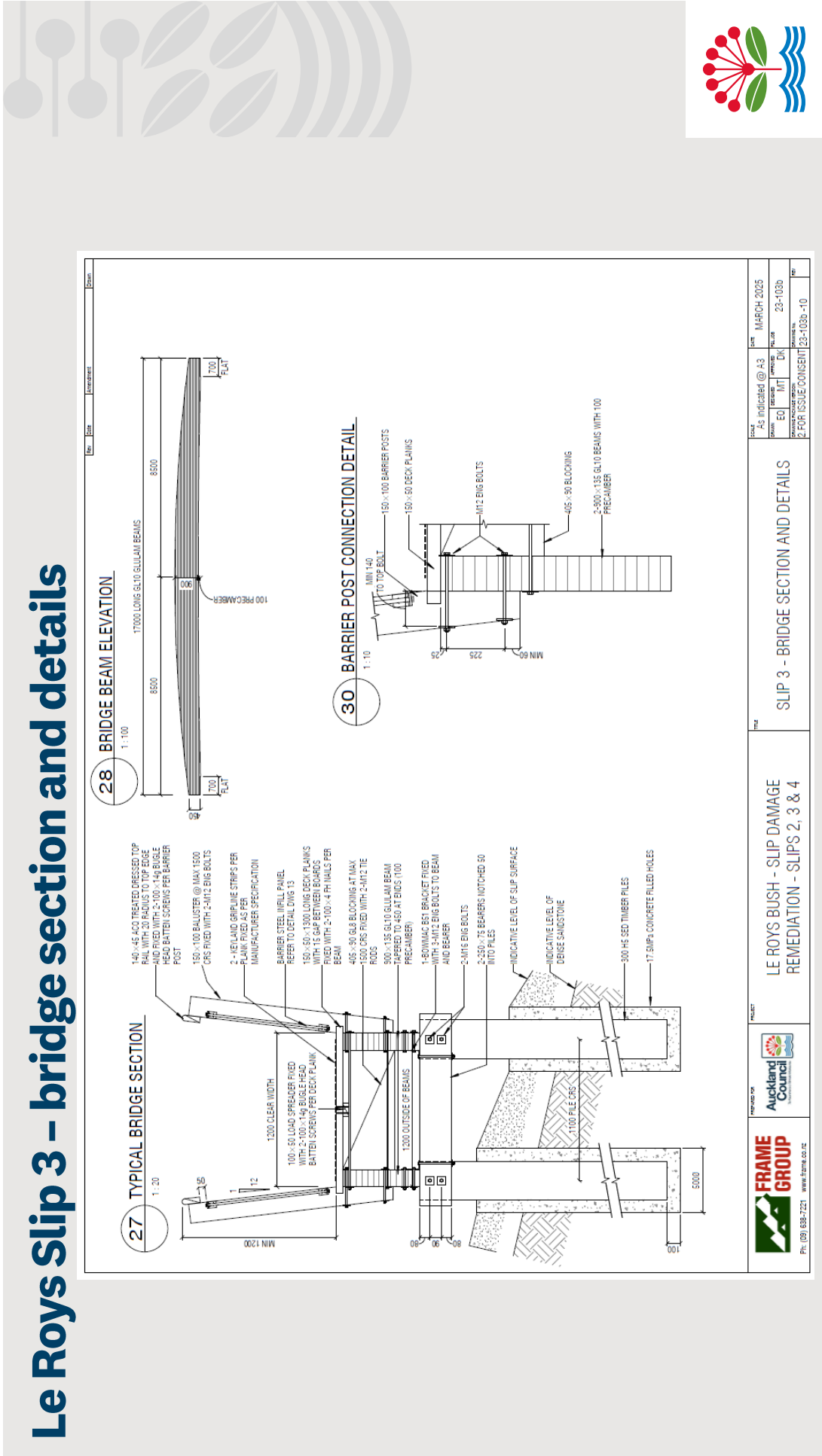


(Right Photo: shows an overview of the slip relative to the pathway. Left Photo: shows the upper portions of the slip. Date Taken: 15/01/2024)



# Le Roys Slip 3 – bridge plan and elevation





<p>Ph: (09) 858-7221 www.frame.co.nz</p>	<p>Prepared by</p>	<p>PROJECT</p> <p>LE ROYS BUSH - SLIP DAMAGE REMEDIATION - SLIPS 2, 3 &amp; 4</p>		<p>DATE</p> <p>MARCH 2025</p>
		<p>As indicated @ A3</p>	<p>DATE</p> <p>MARCH 2025</p>	
<p>SCALE</p> <p>EQ INT DK</p>		<p>DATE</p> <p>23-1023</p>		<p>DATE</p> <p>23-1023</p>
<p>FOR ISSUE/CONSULT</p> <p>23-1023-10</p>		<p>FOR ISSUE/CONSULT</p> <p>23-1023-10</p>		<p>DATE</p> <p>23-1023</p>



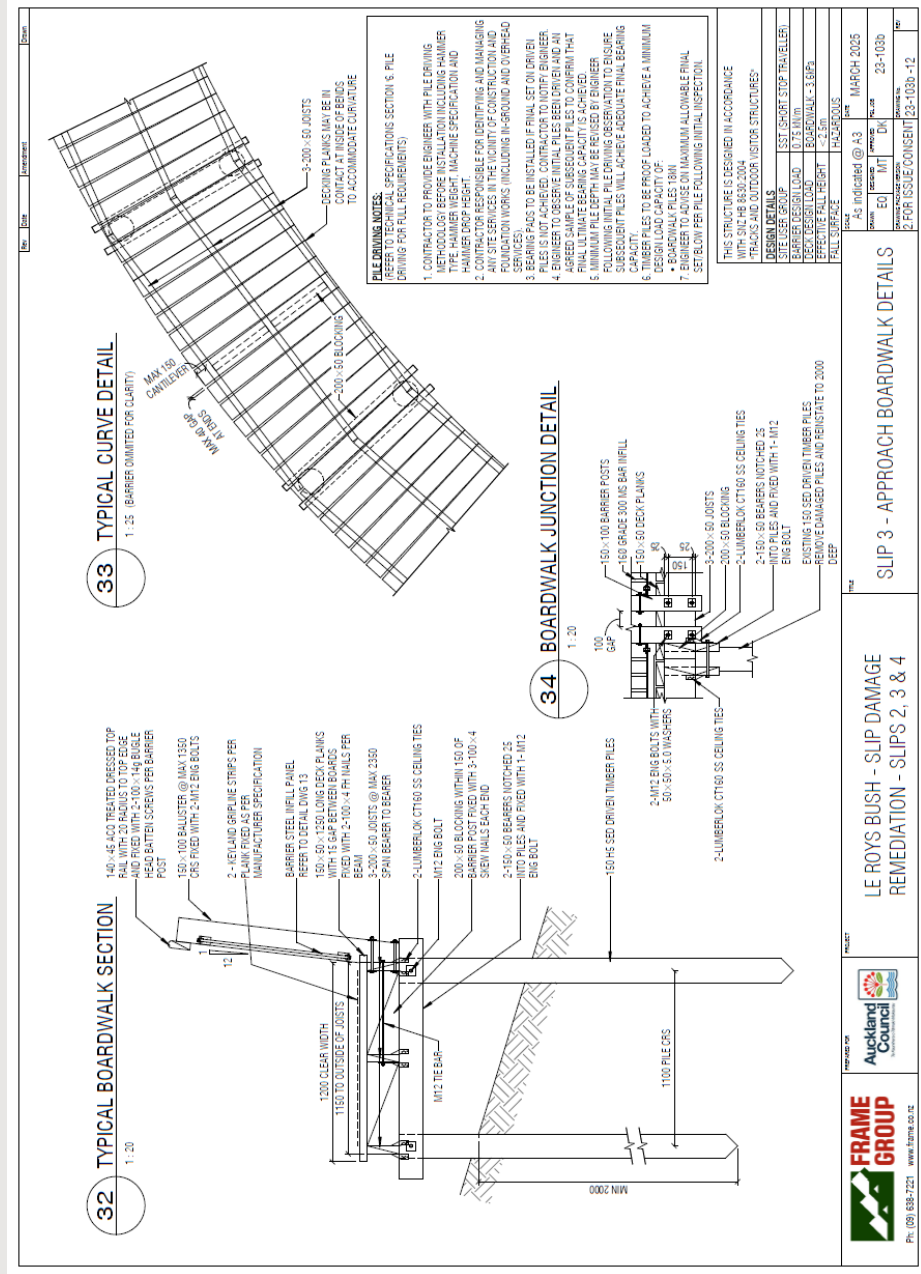
# Le Roys Slip 3 – bridge details

**30 END DETAIL**  
DWG 03 1:20

**31 BLOTTING AND BRACING DETAIL**  
1:20

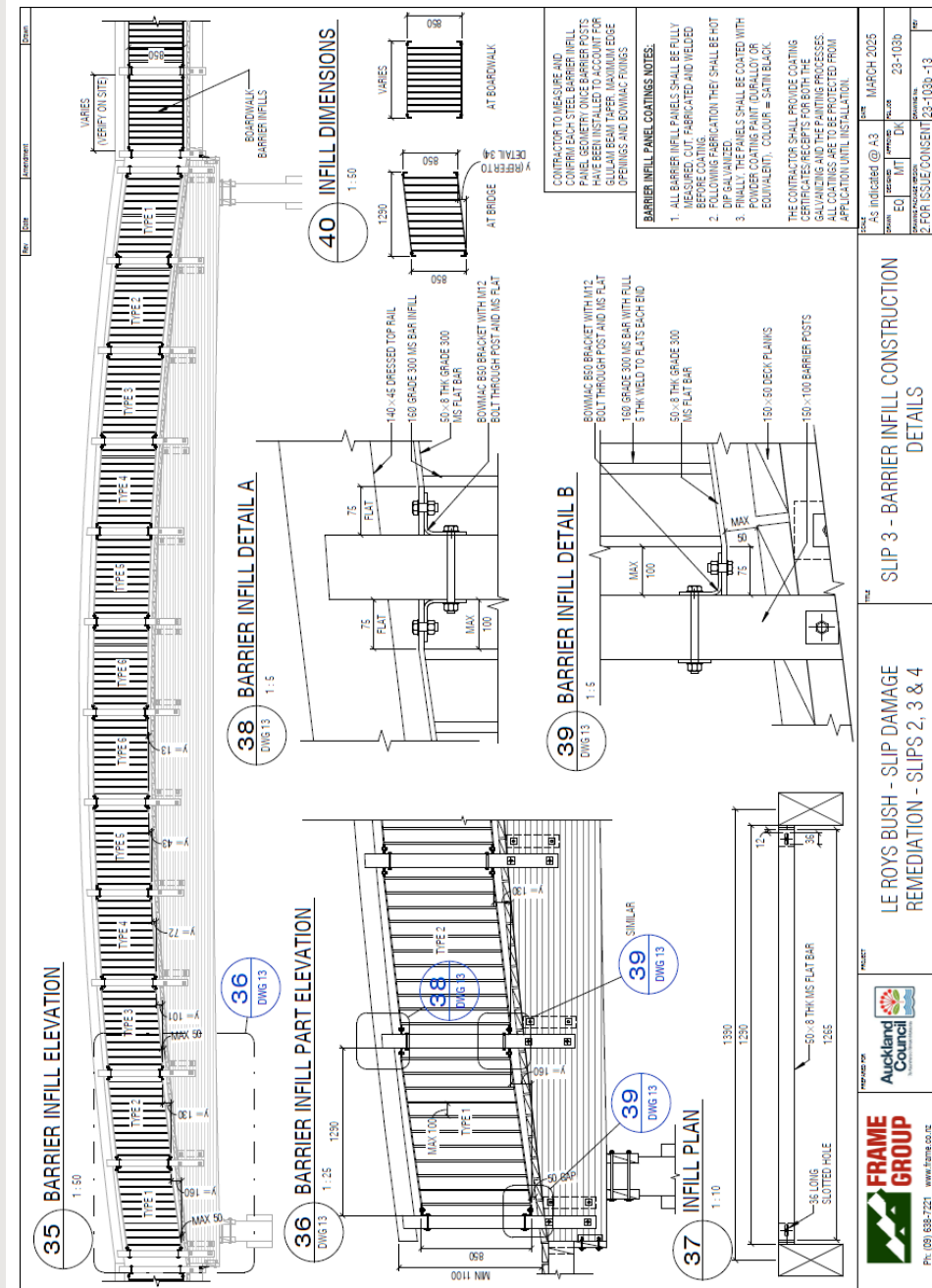
	<b>SLIP 3 - BRIDGE DETAILS</b>			
PROJECT: <b>Auckland Council</b> PREPARED FOR: <b>FRAME GROUP</b> Ph: (09) 838-7221 www.frame.co.nz	PROJECT: <b>LE ROYS BUSH - SLIP DAMAGE REMEDIATION - SLIPS 2, 3 &amp; 4</b>	SCALE: 1:20 @ A3 DRAWN: ED CHECKED: MT DATE FOR ISSUE/CONSENT: 23-103b-11	DATE: MARCH 2025 DRAWN BY: ED CHECKED BY: MT DATE FOR ISSUE/CONSENT: 23-103b-11	DATE: MARCH 2025 DRAWN BY: ED CHECKED BY: MT DATE FOR ISSUE/CONSENT: 23-103b-11

# Le Roys Slip 3 – approach boardwalk details





# Le Roys Slip 3 – barrier infill construction



## Le Roys Slip 4 – detailed design

- Decommission existing track.
- Remove boxed steps.
- Install warning signs.
- Decommissioned existing track.
- Install barrier with warning signs.
- Existing boardwalk to be repaired and barrier to be reinstated.
- Proposed new and existing aggregate tracks.
- Proposed new boxed steps to existing track.
- Consenting is underway for SLIPS 2-4.
- Savings can be achieved if SLIPs 2-4 are completed at the same time .



(Right Photo: shows at the slip at the base. Left Photo: shows the slip looking down from the upper portions of the slope. Date Taken: 15/01/2024)























































































































































































































































































































































































