



Tauranga City Council
21 Devonport Road
Tauranga 3143
New Zealand

16 November 2023

Attention: [REDACTED] s 7(2)(f)(ii)

Dear [REDACTED] s 7(2)(f)(ii)

Mauao Awaiti Viewing Platform - Building Consent No. BC330131 - Ground Confirmation Statement

Beca Ltd (Beca) has been commissioned by Tauranga City Council (TCC) to provide construction monitoring for the Mauao Awaiti Viewing Platform project. The project is located at 1 Adams Avenue, Mt Maunganui, Tauranga along the Mauao base track and involves the construction of a timber viewing platform founded on pad footings.

This letter presents a ground confirmation statement for new foundations in accordance with the conditions set out under Building Consent No. BC330131, and the design assumptions set out in the Structural Design Drawing set issued for Building Consent (4280807-SE-2000 Rev 0A to 4280807-SE-2005 Rev 0A, dated 17/04/2023), which requires a minimum ultimate bearing capacity of 300 kPa.

Ground Confirmation Statement

Beca has carried out a site visit during construction to inspect the ground conditions. A record of our site visit is included in Attachment 1. Dimensions and position of the foundations comply with the minimum requirements set out on drawing 4280807-SE-2005 Rev 0A except for one location on Grid D where excavation terminated 100mm above the target founding level. However, the ground conditions at this location where rock was encountered are more favourable than those assumed in design.

Scala penetrometer tests at each pad location were carried out by the contractor. Test results are included in Attachment 2. Testing at all pad locations hit refusal at shallow depth.

Based on our site visit and review of testing results, we are satisfied that a geotechnical ultimate bearing capacity of 300 kPa is available from the supporting ground directly beneath the pad foundations.

Yours sincerely

s 7(2)(a) - Privacy

Tauranga City Council Category 1 Accredited Geo-Professional

on behalf of

Beca Limited

Phone: s 7(2)(a) - Privacy
Email: s 7(2)(a) - Privacy

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Attachments

- 1) Beca Site Visit Report
- 2) Scala penetrometer test results – provided by contractor

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Attachment 1 – Beca Site Visit Report

Site Visit Report N° 001

Project: Mauao Placemaking Project

Principal: Tauranga City Council

Contractor: Bridge It NZ

Area of site visited: Grids A - G	Purpose of visit: Concrete Footing Cavity Inspection
Date/Time of visit: 02/11/2023 at 3:20pm	Weather: Cloudy
Beca personnel: s 7(2)(a) - Privacy	Contractors representative accompanying Beca personnel: s 7(2)(a) - Privacy
Health and Safety Observations: <ul style="list-style-type: none"> Access to works area is narrow and steep 	
Construction work in progress: <ul style="list-style-type: none"> Holes have been excavated 	
Observations: <ul style="list-style-type: none"> Hole at grid D closer to the water is only 600mm deep, which is less than the minimum requirement of 700mm Holes for the footings along the edge of the slope generally appear to meet the criteria specified on SE-2005 except item mentioned above Soil material under the top soil appeared to be very hard Steel reinforcing size, spacing and grade appeared to be generally in accordance with the structural drawings 	
Comments made to/by contractor's representative: <ul style="list-style-type: none"> Contractor noted that the hole that was only 600mm deep (along grid D) could not be dug any deeper due to there being rock below. Contractor proposed to chemset reinforcing into the rock to mitigate lateral forces and therefore slips. Contractor noted that the soil material below the top soil was very hard and difficult to excavate Beca noted that subgrade testing was required as per note 3.0 on SE-2001 on the structural drawings. Beca noted that a construction methodology was required to be send to the engineer as per 1. on SE-2001 	

This site visit report is limited to a quality assurance overview of construction. It is also typically limited to sensory examination of what is assessed to be typical elements of the building construction, only where safe access existed at the time. Our inspections do not relieve the Contractor of their responsibility for control of the quality of construction in accordance with the design, drawings and specifications. Where photographs are included or attached, they are for the sole purpose of assisting identification of specific observations listed in this report, and shall not be construed as implied review or acceptance of other Contract Works visible within the photograph.

Observations and comments made do not constitute an instruction to the Contractor to vary or amend the Contract Works. Where required, the issue of a CAN/SI or other formal response in accordance with the project protocols shall be considered if the item requires a formal response by the contractor.

Follow-up actions required:

- Contractor to provide subgrade testing
- Contractor to provide construction methodology

Attachments:



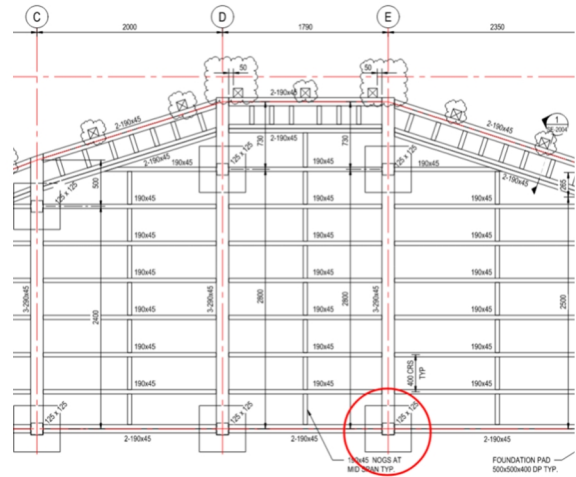
Figure 1: Overview of Site



Figure 2: General Slope

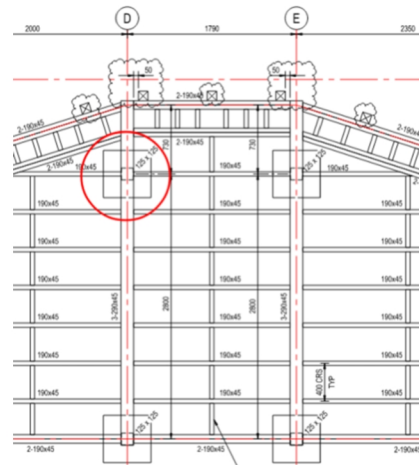
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1 FRAMING GENERAL ARRANGEMENT PLAN 1:20

Figure 3: Hole with Boulders underneath



1 FRAMING GENERAL ARRANGEMENT PLAN 1:20

Figure 4: Hole only 600mm deep

Report prepared by:

s 7(2)(a) - Privacy

Report reviewed by:

s 7(2)(a) - Privacy

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Attachment 2 – Scala penetrometer tests provided by contractor

Bored Pile Installation Check Sheet								
Job No. & Name:	2398 Awaiti Viewing Platform							
Pile Diameter:	125 x 125 H5 Piles							
Minimum Embedment:	Varies - 400mm - 700mm							
Pile Record Details								
Check Item	Pile Number (write pile numbers in circles on next page)							
	P1	P2	P3	P4	P5	P6	P7	P8
Date pile excavated	2/11/23	2/11/23	2/11/23	2/11/23	2/11/23	2/11/23	2/11/23	2/11/23
Estimated depth to competent ground reached	300mm	250mm	250mm	250mm	250mm	250mm	300mm	300mm
Finish pile depth (below ground level)	700mm	700mm	700mm	700mm	700mm	700mm	700mm	700mm
Scala Penetrometer (blows per 100mm)	Refusal	Refusal	Refusal	Refusal	Refusal	Refusal	Refusal	Refusal
Scala Penetrometer (depth til refusal)	20mm	0-10mm	0-10mm	0-10mm	0-10mm	0-10mm	10-20mm	40mm
Minimum embedment reached?	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No
Reinforcing cage tied as per drawings?	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No
Reinforcing cage installed?	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No
Date pile poured								
Other Notes/Observations: After competent ground, cargo hammer used to excavate material (too hard for hand digging)								
Supervisor's Name:				Supervisor's Signature:				
Reviewer's Name:				Reviewer's Signature:				

Bored Pile Installation Check Sheet								
Pile Record Details								
Check Item	Pile Number (write pile numbers in circles on next page)							
	P9	P10	P11	P12	P13	P14	P15	P16
Date pile excavated	2/11/23	2/11/23	2/11/23	2/11/23	2/11/23	2/11/23	2/11/23	2/11/23
Estimated depth to competent ground reached	300mm	200mm	200mm	100mm	Surface rock	Surface rock	200mm	300mm
Finish pile depth (below ground level)	450mm	400mm	400mm	400mm	400mm	400mm	400mm	400mm
Scala Penetrometer (blows per 100mm)	Refusal	Refusal	Refusal	Refusal	Refusal	Refusal	Refusal	Refusal
Scala Penetrometer (depth til refusal)	20mm	30mm	20mm	0mm	0mm	0mm	20mm	30mm
Minimum embedment reached?	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No
Reinforcing cage tied as per drawings?	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No
Reinforcing cage installed?	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No
Date pile poured								
Other Notes/Observations: <i>Rocks throughout holes (P13 & P14). Broken out with congo hammer until embedment achieved</i>								
Supervisor's Name:				Supervisor's Signature:				
Reviewer's Name:				Reviewer's Signature:				

