

# Moduline SafeBarrier Pro Specification

## 1.1m high vertical bar type - Type 3j(ii)

**Description:** 1100 mm high barrier with double channel post embedded in concrete pile with edge beam adjacent to retaining wall

**Application:** Pole retaining wall – concrete foundation

### DRAWING NOTES

**Design Scope and Compliance:**

This specification covers the design of the barrier members and embedment of footing into firm original ground. (good ground 300kPa Ult bearing capacity or  $C_u \geq 60\text{kPa}$ )

The design of the timber retaining wall is not covered by this specification. The contractor or building designer must ensure the posts are into firm ground or the footing design checked.

The barrier design complies with the New Zealand Building Code:

Section B1/ VM1 (structure)

- AS/NZS 1170.1 barrier cat. A, B, C3 & E

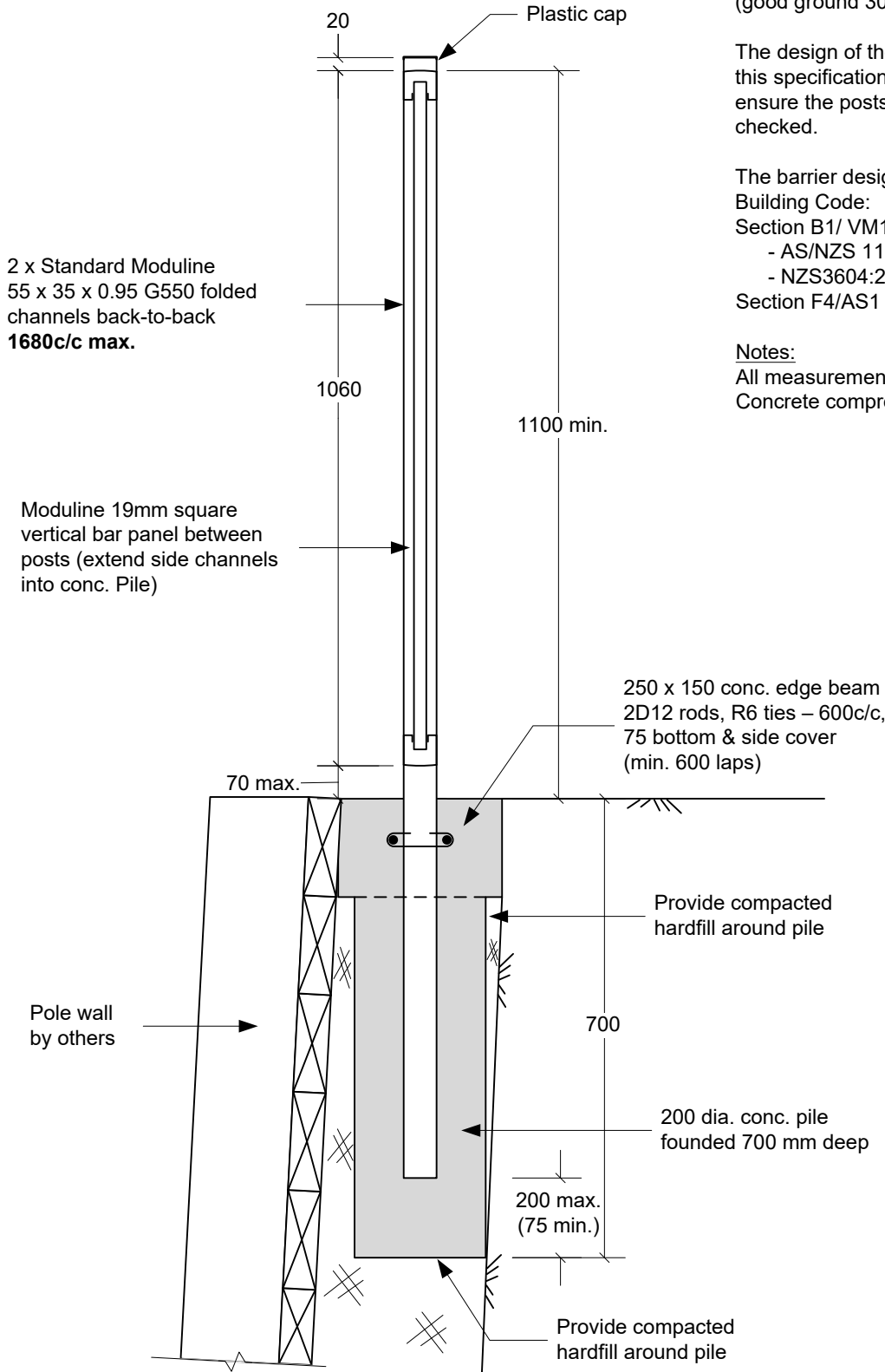
- NZS3604:2011 extra high wind zone ( 55m/s).

Section F4/AS1 (safety from falling).

**Notes:**

All measurements in mm unless stated otherwise.

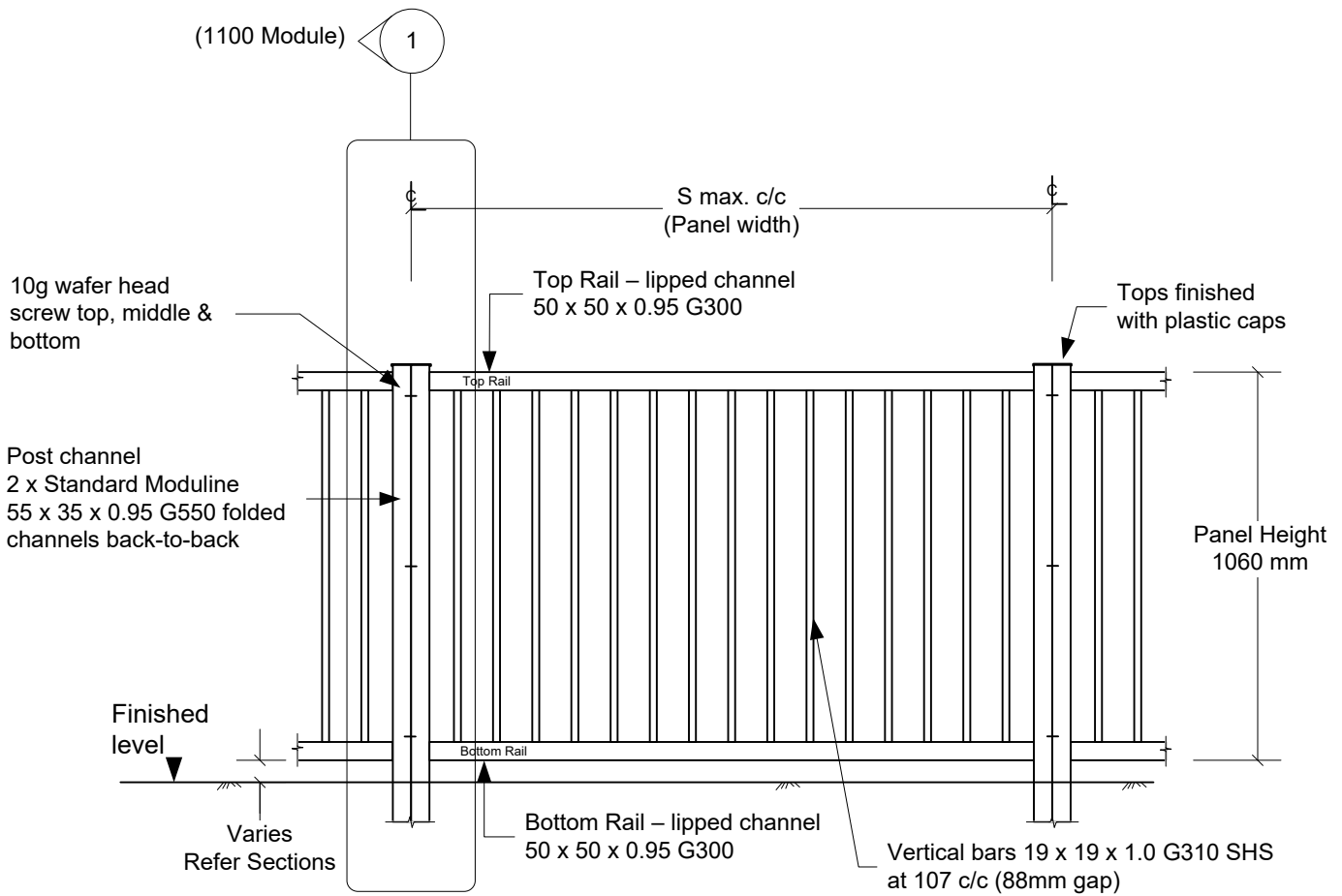
Concrete compression strength 17.5 MPa @ 28 days.



**Section 1** (Scale 1:10)

E	04/09/2024
D	12/01/2022
C	20/09/2016
B	14/12/2017
A	20/09/2016
-	24/03/2016
<b>Revision</b>	<b>Date</b>

<b>Revision</b>	<b>E</b>
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**Notes:**

All measurements in mm unless stated otherwise.

**1.1m high vertical bar type - Type 3  
Extended Side Channel**

(See specification sheet for detail)

(Scale 1:20)

C	04/09/2024
B	20/09/2019
A	20/09/2016
-	24/03/2016
<b>Revision</b>	<b>Date</b>

<b>Revision</b>	<b>c</b>
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# Moduline SafeBarrier Pro Specification

## 1.1m high solid panel type - Type 3j(ii)

**Description:** 1100 mm high barrier with double channel post embedded in concrete pile with edge beam adjacent to retaining wall

**Application:** Pole retaining wall – concrete foundation

### DRAWING NOTES

**Design Scope and Compliance:**

This specification covers the design of the barrier members and embedment of footing into firm original ground. (good ground 300kPa Ult bearing capacity or  $C_u \geq 60\text{kPa}$ )

The design of the timber retaining wall is not covered by this specification. The contractor or building designer must ensure the posts are into firm ground or the footing design checked.

The barrier design complies with the New Zealand Building Code:

Section B1/ VM1 (structure)

- AS/NZS 1170.1 barrier cat. A, B, C3 & E

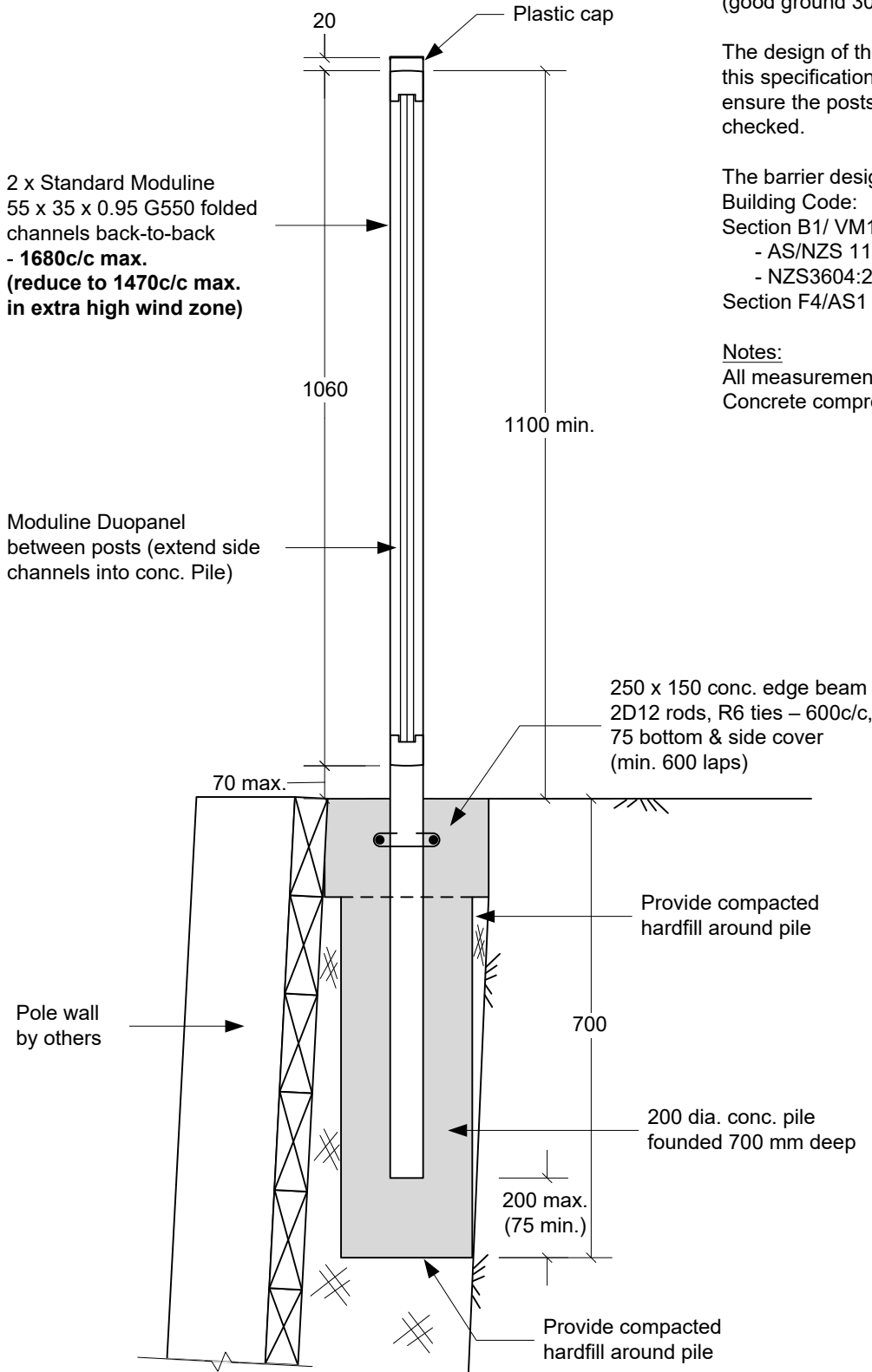
- NZS3604:2011 extra high wind zone ( 55m/s).

Section F4/AS1 (safety from falling).

**Notes:**

All measurements in mm unless stated otherwise.

Concrete compression strength 17.5 MPa @ 28 days.



2 x Standard Moduline  
55 x 35 x 0.95 G550 folded  
channels back-to-back  
- **1680c/c max.**  
**(reduce to 1470c/c max.  
in extra high wind zone)**

Moduline Duopanel  
between posts (extend side  
channels into conc. Pile)

Pole wall  
by others

250 x 150 conc. edge beam  
2D12 rods, R6 ties – 600c/c,  
75 bottom & side cover  
(min. 600 laps)

Provide compacted  
hardfill around pile

200 dia. conc. pile  
founded 700 mm deep

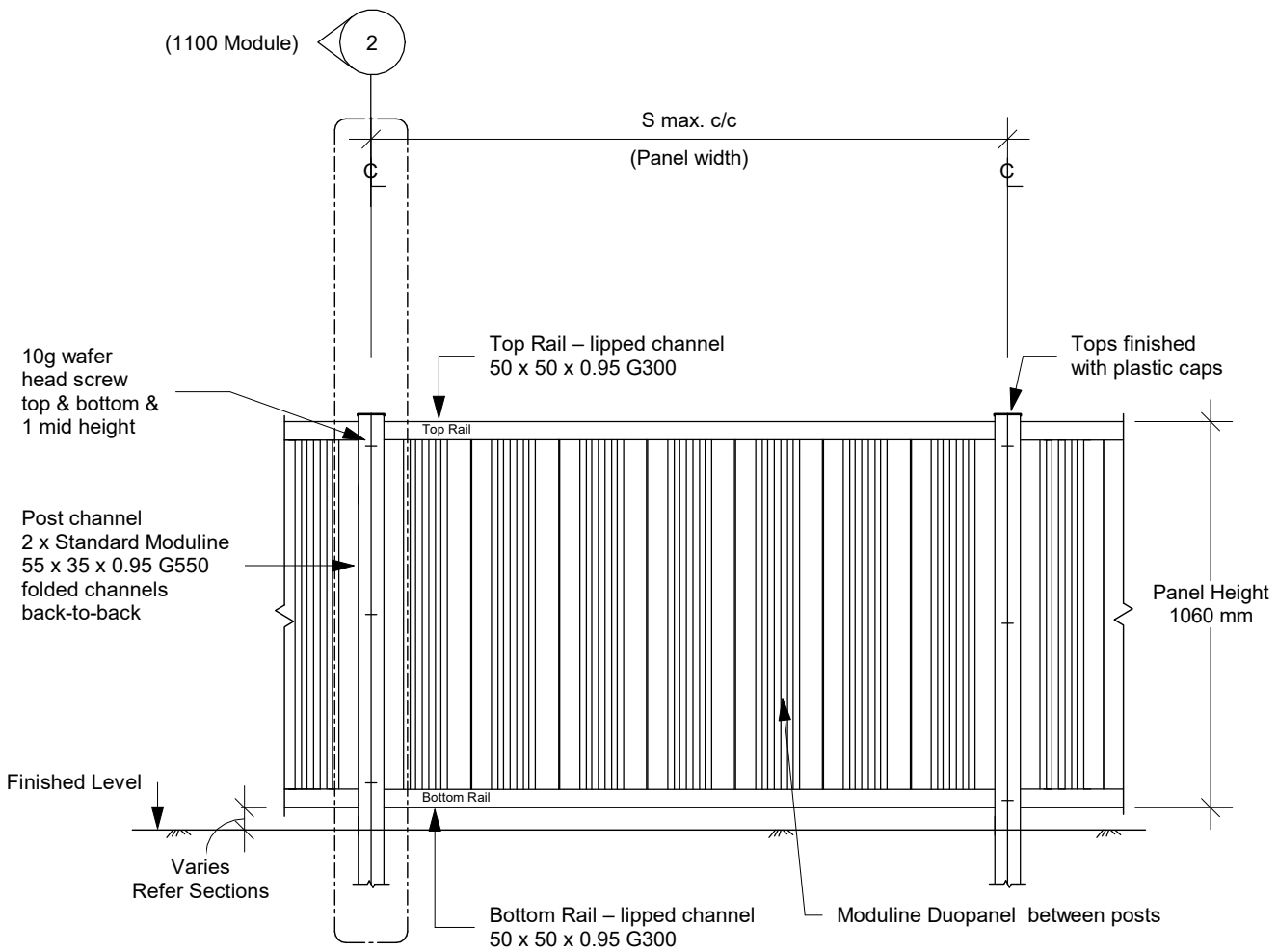
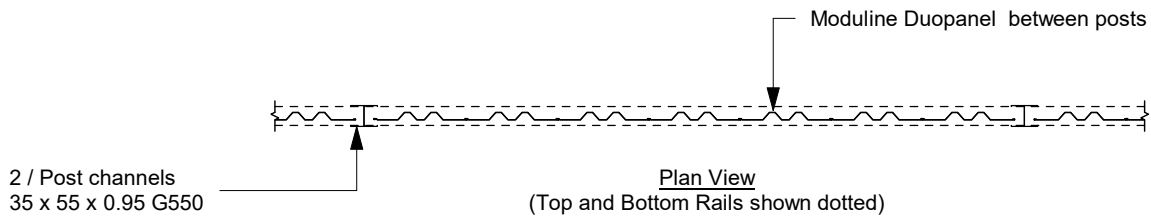
200 max.  
(75 min.)

Provide compacted  
hardfill around pile

**Section 2** (Scale 1:10)

B	04/09/2024
A	12/01/2022
-	20/09/2019
<b>Revision</b>	<b>Date</b>

<b>Revision</b>	<b>B</b>
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**Notes:**

All measurements in mm unless stated otherwise.

**1.1m high solid panel type - Type 3  
Extended Side Channel**  
(See specification sheet for detail)

(Scale 1:20)

A	04/09/2024
-	20/09/2019
Revision	Date

Revision	A
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# PRODUCER STATEMENT - PS1 - DESIGN

ENG REF: 7327 Type 3j(ii)

ISSUED BY Anthony Marino (for Marino Consultants and Associates Ltd)  
(Design Firm)

TO: Metal Rollforming Ltd  
(Owner/Developer)

TO BE SUPPLIED TO: Various  
(Building Consent Authority)

IN RESPECT OF: Moduline SafeBarrier Pro 1.1m high - Type 3j(ii)  
(Description of Building Work)

AT: Non-Specific,  
(Address)

LOT: \_\_\_\_\_ DP: \_\_\_\_\_ SO: \_\_\_\_\_

We have been engaged by the owner/developer referred to above to provide specific structural design services in respect of the requirements of Clause(s) B1, F4 of the Building Code for

- All or  Part only (as specified in the attachment to this statement, ref: 7327 Type 3j(ii) ), of the proposed building work.

The design carried out by us has been prepared in accordance with:

- Compliance Documents issued by the Ministry of Business, Innovation and Employment B1/VM1 (NZS3603, AS/NZS1170, NZS3404), F4/AS1

- Alternative solution as per the attached schedule \_\_\_\_\_

The proposed building work covered by this producer statement is described on the drawings titled

Moduline SafeBarrier Pro 1.1m high - Type 3j(ii) and numbered 1, 2, 3, 4

together with the specification, and other documents set out in the schedule attached to this statement.

On behalf of the Design Firm, and subject to:

- (i) Site verification of the following design assumptions:  
Strength of supporting structure by others
- (ii) All proprietary products meeting their performance specification requirements;

I believe on reasonable grounds that a) the building, if constructed in accordance with the drawings, specifications, and other documents provided or listed in the attached schedule, will comply with the relevant provisions of the Building Code and that b) the persons who have undertaken the design have the necessary competency to do so. I also recommend the following level of construction monitoring/observation:

- Not required

I, Anthony Lewis Marino am CPEng No 69890

I am a member of Engineering New Zealand and hold the following qualifications: BEHons., CPEng.

The Design Firm issuing this statement holds a current policy of Professional Indemnity Insurance no less than \$200,000.

The Design Firm is a member of ACENZ:

SIGNED BY Anthony Marino (B.E.(hons), CPEng (Civil and Structural), CMEngNZ, SESOC)

ON BEHALF OF Marino Consultants and Associates Ltd.

Anthony Marino DATE 09/09/2024

57 Stace Hopper Drive, One Tree Point 0118  
(021) 518 171 (Mobile)  
anthony.marino@outlook.co.nz (Email)

Note: This statement shall only be relied upon by the Building Consent Authority named above. Liability under this statement accrues to the Design Firm only. The total maximum amount of damages payable arising from this statement and all other statements provided to the Building Consent Authority in relation to this building work, whether in contract, tort or otherwise (including negligence), is limited to \$200,000

This form is to accompany Form 2 of the Building (Forms) Regulations 2004 for the application of a Building Consent.