

24 January 2020

Christchurch City Council

RE: Confirmation of Construction Monitoring Engagement

This letter is to confirm that Dev Structural Ltd has been engaged to perform Construction Monitoring Services for the alteration works at 43 Opawa Rd, Christchurch, as shown in the structural drawings by Dev Structural Ltd dated 24 January 2020.

If you have any questions, please do not hesitate to contact the undersigned.

A handwritten signature in black ink, appearing to read 'Huan Nguyen', with a long horizontal flourish underneath.

Huan Nguyen CEngNZ, CPEng

Director, Senior Structural Engineer

Form 2A

Memorandum from licensed building practitioner: Certificate of design work Section 30C or 45, Building Act 2004

Please fill in the form as fully and correctly as possible.

If there is insufficient room on the form for requested details, please continue on another sheet and attach the additional sheet(s) to this form.

THE BUILDING

| | |
|-----------------------------|----------------|
| Street address: 43 Opawa Rd | |
| Suburb: Opawa | |
| Town/City: Christchurch | Postcode: 8023 |

THE OWNER(S)

| | |
|---|--|
| Name(s): Mr Rob Walker and Ms Jordan Walker | |
| Mailing address: 43 Opawa Rd | |
| Suburb: Opawa | PO Box/Private Bag: |
| Town/City: Christchurch | Postcode: 8023 |
| Phone number: 021 254 6267 | Email address: r.walker@doctors.org.uk |

BASIS FOR PROVIDING THIS MEMORANDUM

I am providing this memorandum in my role as the: Please tick the option that applies

- sole** designer of all of the RBW design outlined in this memorandum – I carried out all of the RBW design work myself – no other person will be providing any additional memoranda for the project
- lead** designer who carried out some of the RBW design myself but also supervised other designers – this memorandum covers their RBW design work as well as mine, and **no other** person will be providing any additional memoranda for the project
- lead** designer for all but specific elements of RBW – this memorandum only covers the RBW design work that I carried out or supervised and the **other** designers will provide their own memorandum relating to their specific RBW design
- specialist** designer who carried out specific elements of RBW design work as outlined in this memorandum – other designers will be providing a memorandum covering the remaining RBW design work

IDENTIFICATION OF DESIGN WORK THAT IS RESTRICTED BUILDING WORK (RBW)

I Huan Nguyen carried out / supervised the following design work that is restricted building work

PRIMARY STRUCTURE: B1

| Design work that is RBW | Description of RBW | Carried out or supervised | Reference to plans and specifications |
|---|--|--|---|
| Tick <input checked="" type="checkbox"/> if included. Cross <input type="checkbox"/> if excluded | If appropriate, provide details of the RBW | Tick <input checked="" type="checkbox"/> whether you carried out this design work or supervised someone else carrying out this design work | If appropriate, specify references |
| All RBW design work relating to B1 <input type="checkbox"/> | | <input type="checkbox"/> Carried out <input type="checkbox"/> Supervised | |
| Foundations and subfloor framing <input checked="" type="checkbox"/> | One concrete pad under timber post | <input checked="" type="checkbox"/> Carried out <input type="checkbox"/> Supervised | Refer to structural drawings by Dev Structural Ltd |

| Design work that is RBW | Description of RBW | Carried out or supervised | Reference to plans and specifications |
|---|--|--|--|
| Tick <input checked="" type="checkbox"/> if included. Cross <input type="checkbox"/> if excluded | If appropriate, provide details of the RBW | Tick <input checked="" type="checkbox"/> whether you carried out this design work or supervised someone else carrying out this design work | If appropriate, specify references |
| Walls <input type="checkbox"/> | | <input type="checkbox"/> Carried out <input type="checkbox"/> Supervised | |
| Roof <input type="checkbox"/> | | <input type="checkbox"/> Carried out <input type="checkbox"/> Supervised | |
| Columns and beams <input checked="" type="checkbox"/> | New timber beam and timber posts | <input checked="" type="checkbox"/> Carried out <input type="checkbox"/> Supervised | Refer to structural drawings by Dev Structural Ltd |
| Bracing <input checked="" type="checkbox"/> | Timber wall bracing | <input checked="" type="checkbox"/> Carried out <input type="checkbox"/> Supervised | Refer to structural drawings by Dev Structural Ltd |
| Other <input type="checkbox"/> | | <input type="checkbox"/> Carried out <input type="checkbox"/> Supervised | |

| Design work that is RBW | Description of RBW | Carried out or supervised | Reference to plans and specifications |
|--|--|--|---------------------------------------|
| Tick <input checked="" type="checkbox"/> if included. Cross <input checked="" type="checkbox"/> if excluded | If appropriate, provide details of the RBW | Tick <input checked="" type="checkbox"/> whether you carried out this design work or supervised someone else carrying out this design work | If appropriate, specify references |
| EXTERNAL MOISTURE MANAGEMENT SYSTEMS: E2 | | | |
| All RBW design work relating to E2 <input type="checkbox"/> | | <input type="checkbox"/> Carried out <input type="checkbox"/> Supervised | |
| Damp proofing <input type="checkbox"/> | | <input type="checkbox"/> Carried out <input type="checkbox"/> Supervised | |
| Roof cladding or roof cladding system <input type="checkbox"/> | | <input type="checkbox"/> Carried out <input type="checkbox"/> Supervised | |
| Ventilation system (for example, subfloor or cavity) <input type="checkbox"/> | | <input type="checkbox"/> Carried out <input type="checkbox"/> Supervised | |
| Wall cladding or wall cladding system <input type="checkbox"/> | | <input type="checkbox"/> Carried out <input type="checkbox"/> Supervised | |
| Waterproofing <input type="checkbox"/> | | <input type="checkbox"/> Carried out <input type="checkbox"/> Supervised | |
| Other <input type="checkbox"/> | | <input type="checkbox"/> Carried out <input type="checkbox"/> Supervised | |

| Design work that is RBW | Description of RBW | Carried out or supervised | Reference to plans and specifications |
|--|--|--|---------------------------------------|
| Tick <input checked="" type="checkbox"/> if included. Cross <input checked="" type="checkbox"/> if excluded | If appropriate, provide details of the RBW | Tick <input checked="" type="checkbox"/> whether you carried out this design work or supervised someone else carrying out this design work | If appropriate, specify references |
| FIRE SAFETY SYSTEMS: C1 - C6 | | | |
| Emergency warning systems Evacuation and fire service operation systems Suppression or control systems Other | <input type="checkbox"/> | <input type="checkbox"/> Carried out <input type="checkbox"/> Supervised | |
| Note: The design of fire safety systems is only restricted building work when it involves small-to-medium apartment buildings as defined by the Building (Definition of Restricted Building Work) Order 2011. | | | |

WAIVERS AND MODIFICATIONS

Waivers or modifications of the Building Code are required. Yes No

If Yes, provide details of the waivers or modifications below:

| Clause | Waiver/modification required |
|---|--|
| List relevant clause numbers of building code | Specify nature of waiver or modification of building code required |
| | |
| | |
| | |

ISSUED BY

Name and contact details of the licensed building practitioner who is licensed to carry out or supervise design work that is restricted building work.

Name: **Huan Nguyen**

LBP or Registration number: **CPEng # 1026803**

The practitioner is a: Design LBP Registered architect Chartered professional engineer

Design Entity or Company (optional): **Dev Structural Ltd**

Mailing address (if different from below):

Street address/Registered office: **177 High Street, Level 2, Suite 10**

Suburb: **Christchurch Central**

Town/City: **Christchurch**

PO Box/Private Bag:

Postcode: **8011**

Phone number:

Mobile: **021 080 74901**

After hours:

Fax:

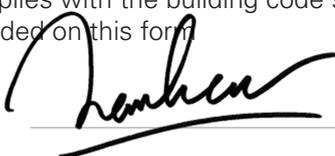
Email address: **huan@devstructural.co.nz**

Website: **devstructural.co.nz**

DECLARATION

I **Huan Nguyen** LBP, state that I have applied the skill and care reasonably required of a competent design professional in carrying out or supervising the Restricted Building Work (RBW) described in this form, and that based on this, I also state that the RBW:

- Complies with the building code, or
- Complies with the building code subject to any waiver or modification of the building code recorded on this form

Signature: 

Date:

24 January 2020

Consenting & Compliance Group

Producer statement design (PS1)

To be completed by the design professional who has been engaged to provide a PS1

Author name:

Huan Nguyen

Author company:

Dev Structural Limited

Site address:

43 Opawa Rd

Legal description:

Lot 5 DP 9601

Engaged by:

Mr Rob Walker and Ms Jordan Walker

To provide design services in respect of: part all

(describe work)

Minor residential alterations

NZBC clauses:

[select as applicable]

- B1 B2 C1 C2 C3 C4 C5 C6 D1 D2 E1 E2
 E3 F1 F2 F3 F4 F5 F6 F7 F8 G1 G2 G3
NB: All statements must include B2 G4 G5 G6 G7 G8 G9 G10 G11 G12 G13 G14 G15
 H1

The design has been prepared in accordance with:

Approved documents issued by the Ministry of Business, Innovation and Employment *(verification method / acceptable solution)*

B1/VM1, B1/AS1

Alternative solution *(attach schedule if required)*

The proposed building work covered by this producer statement design is described on the drawings referenced below, together with the specifications and other documents set out in the schedule attached to this statement:

Drawing title:

43 Opawa - Alterations

Drawing numbers:

S0.1, S1.1, S2.1, S2.2

The producer statement is subject to:

(i) Site verification of the following design assumptions:

Verification of existing construction conditions as noted on the plans

(ii) All proprietary products meeting their performance specification requirements

I believe on reasonable grounds that the proposed building work, will comply with the relevant provisions of the Building Code if constructed in accordance with the drawings, specifications and other documents provided or listed with this statement.

I understand that the Council may rely on this producer statement for the purposes of establishing compliance with the relevant provisions of the Building Act 2004, Building Regulations and Building Code. I confirm that I hold a current policy of professional indemnity insurance to the value required by the Council.

Construction monitoring is: Not required Required

If required, please list below:

Refer to sheet S0.1 of structural drawings.

(Agreement must be attached)

Signature:



Date:

24 January 2020

ACENZ

Engineering New Zealand

CPENG

NZIA

Other
(specify):

1026803

(Membership number)

Practice Area:

Structural

Address:

177 High Street, Level 10, Suite 2

Postcode:

8011

Phone:

03 379 4401

Fax:

Mobile:

021 080 74901

Email:

huan@devstructural.co.nz

Comments:

| SHEET LIST | | |
|------------|-----|---------------|
| SHEET | REV | SHEET NAME |
| S0.1 | 1 | GENERAL NOTES |
| S1.1 | 1 | PLANS |
| S2.1 | 1 | DETAILS |
| S2.2 | 1 | DETAILS |

ABBREVIATIONS

UNO = UNLESS NOTED OTHERWISE
 TYP = TYPICAL
 SIM = SIMILAR
 URM = UNREINFORCED MASONRY
 VIF = VERIFY IN FIELD
 CMU = CONCRETE MASONRY UNITS
 C/C, CTRS = CENTRE TO CENTRE
 BGL = BELOW GRADE LEVEL
 PL= PLATE
 OH = OPPOSITE HAND
 MANF = MANUFACTURER
 CFS = COLD FORMED STEEL
 FWAR = FILLET WELD ALL AROUND
 CONC = CONCRETE
 ARCH = ARCHITECT
 REV = REVISION

TIMBER:

1. ALL STRUCTURAL TIMBER SHALL BE RADIATA PINE OR DOUGLAS FIR GRADE MSG8 U.N.O.
2. MOISTURE CONTENT SHALL NOT EXCEED 16% AT TIME OF INSTALLATION.
3. NEW TIMBER SHALL BE TREATED IN ACCORDANCE WITH NZS3602.
4. ALL BOLTS, WASHERS, PLATES, CONNECTORS AND THE LIKE MUST BE HOT-DIP GALVANISED USING THE HDG600 GALVANISING SYSTEM.
5. ALL BOLTS MUST HAVE SQUARE WASHERS, AS DEFINED IN CLAUSE 4.4 OF 3603:1993.

POST INSTALLED ANCHORS:

1. EPOXY ANCHORED RODS SHALL BE GRADE 8.8/S THREADED CARBON STEEL. SEE PLANS & DETAILS FOR ROD DIAMETER AND EMBEDMENT.
2. EPOXY SHALL BE HILTI HIT-RE V3 OR APPROVED EQUIVALENT.

STRUCTURAL CONCRETE:

1. ALL STRUCTURAL CONCRETE SHALL BE 25MPA COMPRESSIVE STRENGTH AT 28 DAYS.
2. ALL CONCRETE SHALL BE NORMAL WEIGHT CONCRETE (2350 kg/m³ DRY CONCRETE WEIGHT).
3. ALL CONCRETE FINISHES SHALL BE IN ACCORDANCE WITH NZS3114

GENERAL NOTES

1. DO NOT SCALE DRAWINGS. ALL DIMENSIONS RELATED TO EXISTING CONDITIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR.
2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO IMMEDIATELY NOTIFY THE ENGINEER OF ANY CONFLICTS; OR EXISTING CONDITIONS NOT SHOWN OR DIFFERENT FROM THOSE SHOWN ON DRAWINGS PRIOR TO COMMENCEMENT OF WORK. THE CONTRACTOR IS NOT TO ORDER MATERIAL OR CONSTRUCT ANY PORTION OF THE BUILDING THAT IS IN CONFLICT UNTIL THE CONFLICT IS RESOLVED WITH THE AFFECTED PARTIES.
3. THE STRUCTURAL DRAWINGS REPRESENT THE FINISHED STRUCTURE. UNLESS OTHERWISE SHOWN THEY DO NOT INDICATE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE CONSTRUCTION AND ALL ADJACENT PROPERTIES DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE BUT ARE NOT LIMITED TO BRACING, SHORING OF LOADS DUE TO CONSTRUCTION EQUIPMENT, ETC.
4. THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ARCHITECT'S AND OTHER CONSULTANTS DRAWINGS AND SPECIFICATIONS AND SUCH OTHER WRITTEN INSTRUCTIONS AS MAY BE ISSUED DURING THE COURSE OF THE CONTRACT.
5. DIMENSIONS ARE IN MILLIMETERS U.N.O.
6. DURING CONSTRUCTION IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT THE STRUCTURES AND EXCAVATIONS ARE MAINTAINED IN A SAFE AND STABLE CONDITION AT ALL TIME AND NO PART IS TO BE OVERSTRESSED. THE CONTRACTOR SHALL DEVELOP WORK METHOD STATEMENT FOR ALL ERECTION OF STRUCTURAL STEEL / FORMWORK/ DEMOLITION/ EXCAVATION/ TILT PANELS ETC. AND PROVIDE TEMPORARY WORKS SUCH AS BRACING, PROPPING AND SHORING ETC. TO KEEP THE WORK AND EXCAVATIONS STABLE AND FREE FROM WATER AT ALL TIMES. THE CONTRACTOR IS TO ENGAGE A STRUCTURAL ENGINEER TO DESIGN AND CERTIFY THE TEMPORARY WORKS IF NEEDED.

CONSTRUCTION MONITORING BY ENGINEER:

1. AFTER EXPOSING FRAMING, PRIOR TO INSTALLING NEW TIMBER BEAMS AND CONCRETE PADS
2. AFTER INSTALLATION OF NEW CONC PAD AND NEW TIMBER FRAMING, PRIOR TO COVERING
3. AT THE END OF CONSTRUCTION, FOR THE PURPOSE OF COMPLETING A PS4.

REVISION SCHEDULE

| REV | DESC | DATE |
|-----|---------------|-----------|
| 1 | FOR EXEMPTION | 24/1/2020 |
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PROJECT TITLE

**43 OPAWA RD -
ALTERATIONS**

PROJ No. **20-101**

DATE **24/01/2020**

DRAWN BY **HNN**

CHECKED BY **HNN**

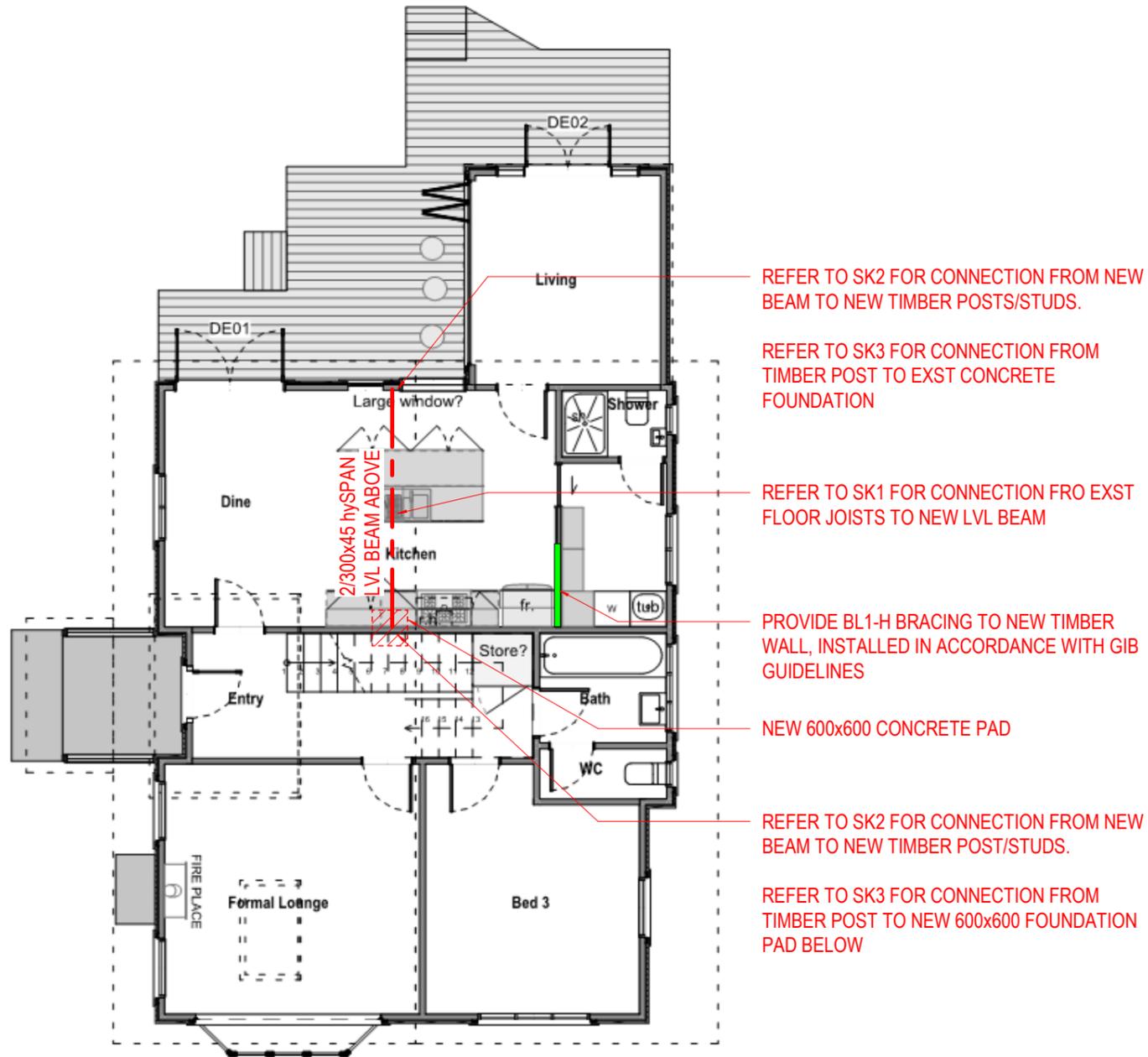
SCALE

GENERAL
NOTES

S0.1

NOTES:

1. CONTRACTOR TO VERIFY ALL DIMENSIONS IN THE FIELD & NOTIFY ENGINEER IF ANY CONFLICTING DIMENSIONS TO THE AS-DETAILED CONDITIONS ARE DISCOVERED AFTER THE FRAMING HAS BEEN EXPOSED.



GROUND FLOOR PLAN

1 : 100

REVISION SCHEDULE

| REV | DESC | DATE |
|-----|---------------|-----------|
| 1 | FOR EXEMPTION | 24/1/2020 |
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PROJECT TITLE

43 OPAWA RD -
ALTERATIONS

PROJ No. 20-101

DATE 24/01/2020

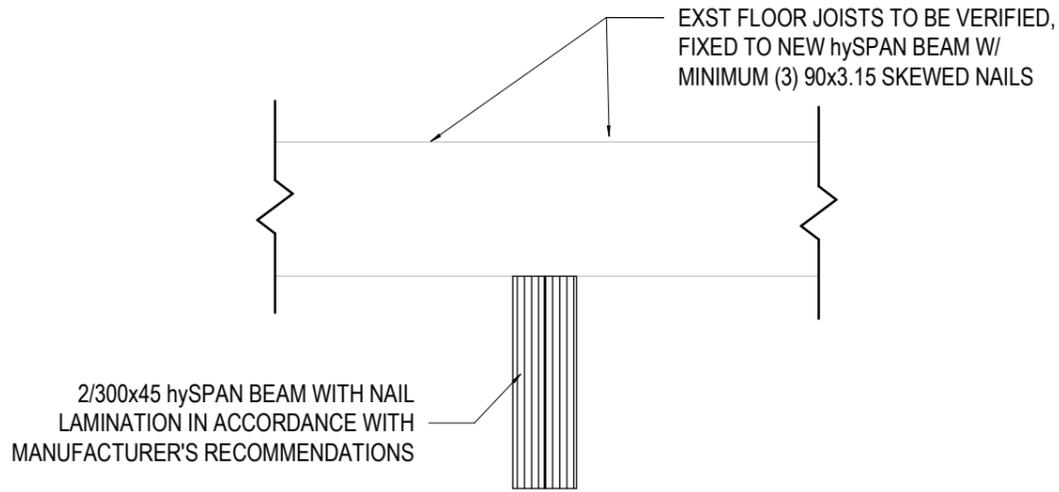
DRAWN BY HNN

CHECKED BY HNN

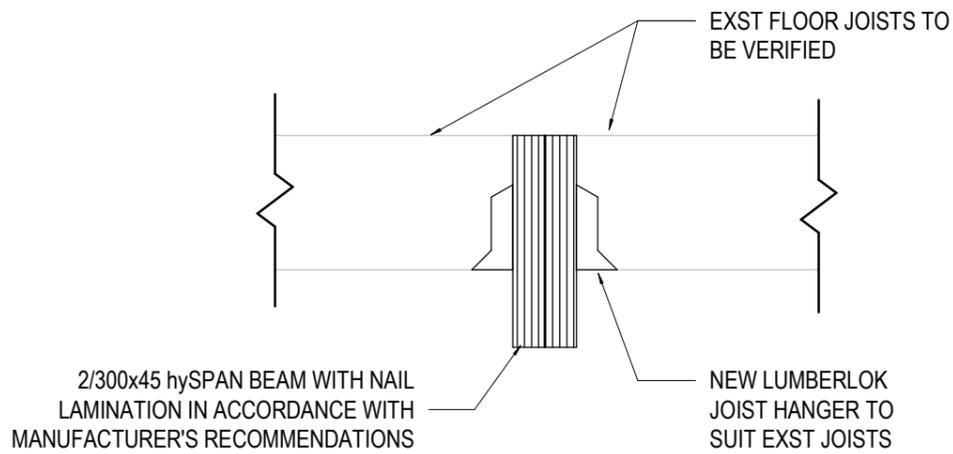
SCALE 1 : 100

PLANS

S1.1

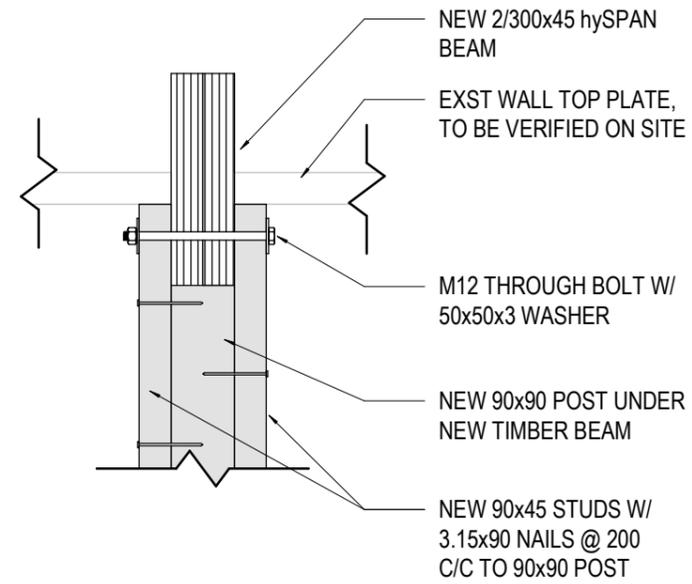


OPTION 1: EXST JOISTS SIT ON NEW BEAM



OPTION 2: EXST JOISTS FACE FRAMED TO NEW BEAM

1 SK1 - EXST JOISTS TO NEW BEAM
1 : 10



2 SK2 - NEW TIMBER BEAM TO POST
1 : 10

NOTES:

- CONTRACTOR TO VERIFY ALL DIMENSIONS IN THE FIELD & NOTIFY ENGINEER IF ANY CONFLICTING DIMENSIONS TO THE AS-DETAILED CONDITIONS ARE DISCOVERED AFTER THE FRAMING HAS BEEN EXPOSED.

REVISION SCHEDULE

| REV | DESC | DATE |
|-----|---------------|-----------|
| 1 | FOR EXEMPTION | 24/1/2020 |
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PROJECT TITLE

43 OPAWA RD -
ALTERATIONS

PROJ No. 20-101

DATE 24/01/2020

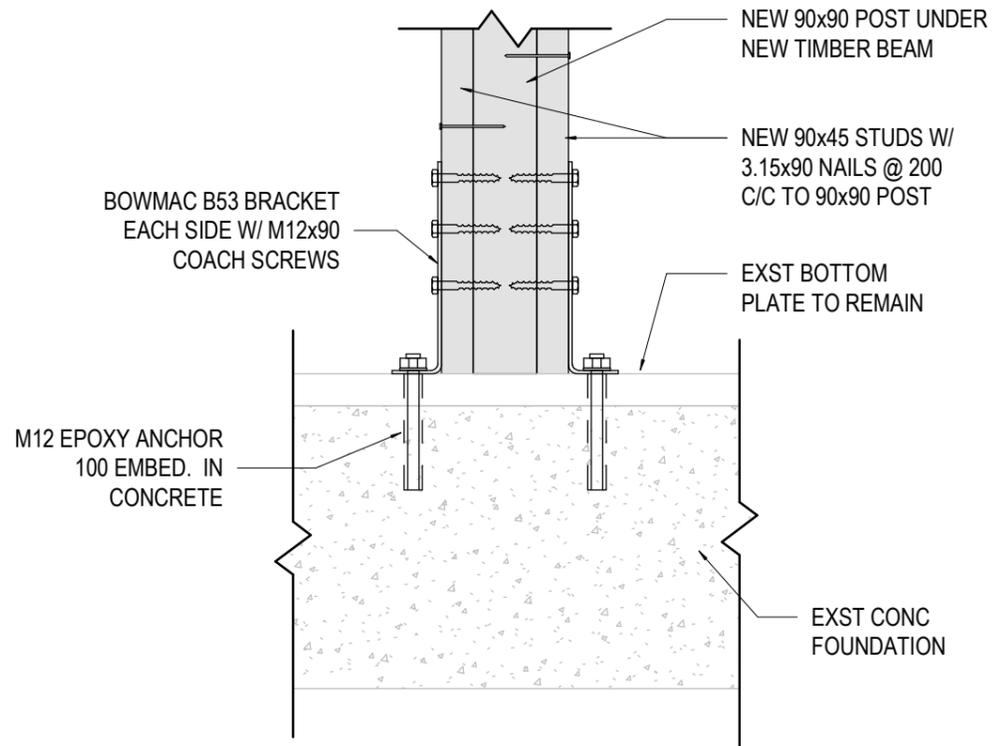
DRAWN BY HNN

CHECKED BY HNN

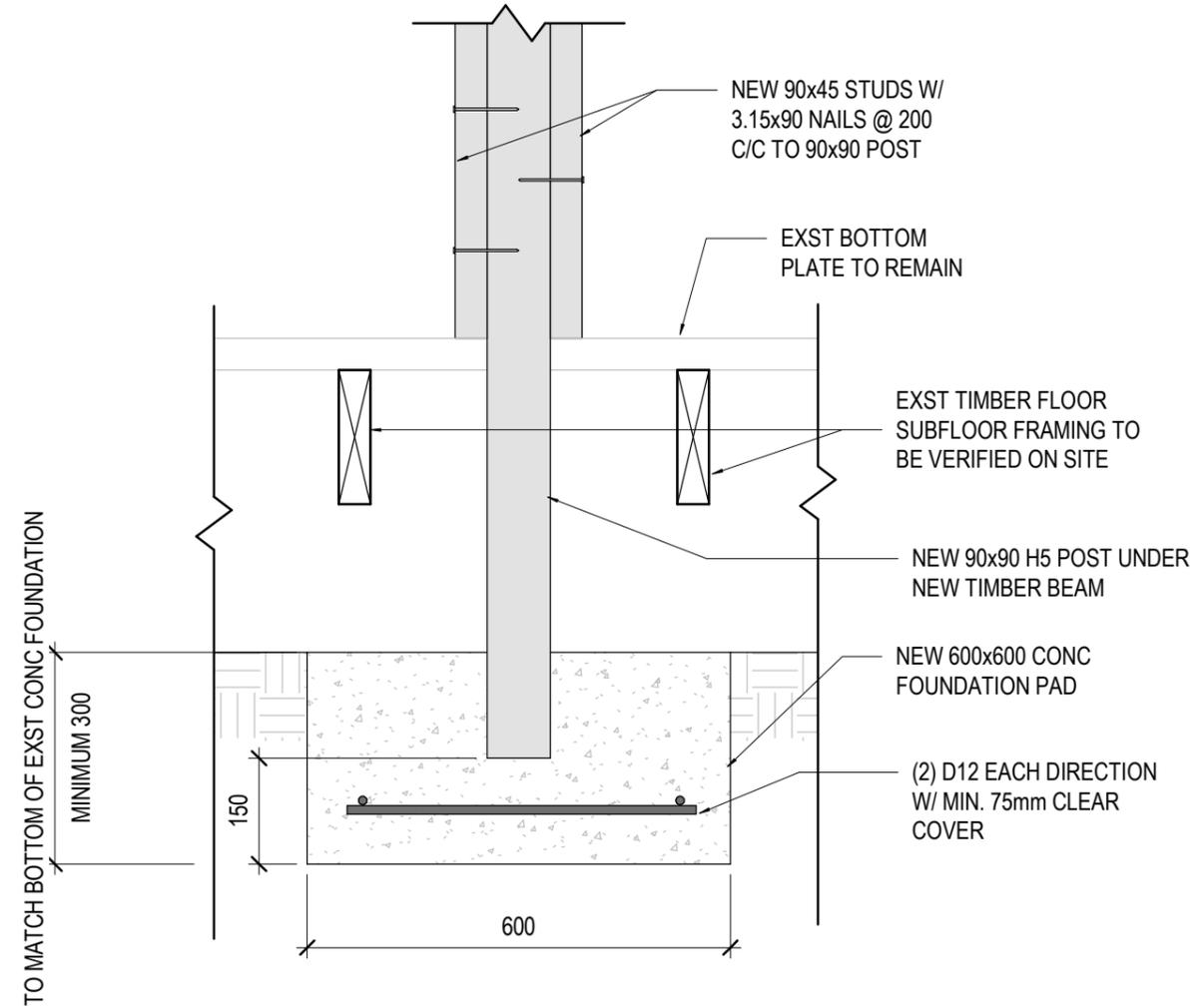
SCALE 1 : 10

DETAILS

S2.1



1 SK3 - TIMBER POST TO EXST FOUNDATION
1 : 10



2 SK4 - TIMBER POST TO NEW FOUNDATION
1 : 10

NOTES:

- CONTRACTOR TO VERIFY ALL DIMENSIONS IN THE FIELD & NOTIFY ENGINEER IF ANY CONFLICTING DIMENSIONS TO THE AS-DETAILED CONDITIONS ARE DISCOVERED AFTER THE FRAMING HAS BEEN EXPOSED.

| REVISION SCHEDULE | | |
|-------------------|---------------|-----------|
| REV | DESC | DATE |
| 1 | FOR EXEMPTION | 24/1/2020 |
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PROJECT TITLE

43 OPAWA RD -
ALTERATIONS

PROJ No. 20-101

DATE 24/01/2020

DRAWN BY HNN

CHECKED BY HNN

SCALE 1 : 10

DETAILS

S2.2