# **STRUCTURAL ENGINEERING PLAN**

**PROJECT: PROPOSED ADDITION & ALTERATIONS** ADDRESS: 173 BIRDWOOD RD, GEORGES HALL LGA: CANTERBURY-BANKSTOWN COUNCIL

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|  | 2. BOOKINGS FOR I<br>www.nitma.com.au/bo       |
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|  | For Inspector's Use                            |
|  | Pier 🗌 SI                                      |
|  | Frame 🔲 Sing                                   |
|  | Satisfactory? YI                               |
| NITMA CONSULTING PTY LTD<br>PO Box 43, West Ryde NSW 1685<br>M: 0434 284 585<br>E: admin@nitma.com.au<br>W: nitma.com.au | PROJECT : PROP<br>ADDRESS: 173 B<br>LGA : CANT |
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| Re                    | visions     | Approved:                                       |      |
|-----------------------|-------------|---|------|
| For Coordination only |             |   |      |
|                       |             | Quoc Huy Nguyen<br>— PhD (Eng). MIEAust, CPEng, |      |
| Designed: HD          | Checked: KV | NER Reg. No. 208 2513                           | CONS |

| All dimensions are in milimetres. Do not   |
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| scale the drawing. Use written dimensions. |
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| commencement. Location of services are     |
| approximate only. Dial 1100 before any     |
| excavation or demolition.                  |

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| 1. IF ANY DISCREPANCIES OR DOUBTS, CONTACT THE ENGINEER.<br>2. BOOKINGS FOR INSPECTION, IF REQUIRED, SHALL BE MADE VIA OUR WEBSITE AT |                       |                                     |  |  |  |  |
|---|-----------------------|-------------------------------------|--|--|--|--|
| www.nitma.com.au/bookings. CO   | NDITIONS APPLY.       |                                     |  |  |  |  |
| For Inspector's Use Only  | Inspector: Date       |                                     |  |  |  |  |
| Pier 🗌 Slab 🗌   | BF 🗌 GF 🗌             | 1F 🗌 Other 🗌                        |  |  |  |  |
| Frame 🗌 Single 🗌 D  | ouble 🗌 Other 🗌       | Steel 🗌 No Steel 🗌                  |  |  |  |  |
| Satisfactory? YES   | NO 🗌 Comments         |                                     |  |  |  |  |
|   |                       | al no. 15                           |  |  |  |  |
| Project No: 6370S Issue   | e: A Date: 28.05.2024 | ाह्य र्दें<br>Drawing No: GN0 में ज |  |  |  |  |

# IMPORTANT DETAILS. PLEASE READ CAREFULLY!

# **GENERAL NOTES**

GN1. STRUCTURAL ENGINEERING DRAWINGS ARE ISSUED ON THE UNDERSTANDING THAT THE BUILDER MAINTAINS IN FORCE, PROPER AND ADEQUATE CONTRACT WORKS INSURANCE AND PUBLIC LIABILITY INSURANCE DURING THE FULL COURSE OF THE CONSTRUCTION, AND/OR ANY MAINTENANCE PERIOD. CLAIMS OF DAMAGE TO ANY ADJACENT PROPERTY OF BUILDING IS NOT THE RESPONSIBILITY OF THE ENGINEER.

GN2. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL ARCHITECTURAL AND OTHER CONSULTANTS DRAWINGS AND SPECIFICATION AND WITH SUCH OTHER WRITTEN INSTRUCTIONS AS MAY BE ISSUED DURING THE COURSE OF THE CONTRACT. ALL DISCREPANCIES SHALL BE REFERRED TO THE ARCHITECT FOR DECISION BEFORE PROCEEDING.

GN3. DURING CONSTRUCTION, THE BUILDING SHALL BE MAINTAINED IN A STABLE CONDITION AND NO PART SHALL BE OVERSTRESSED AT ANY TIME. TEMPORARY BRACING SHALL BE PROVIDED BY THE CONTRACTOR AS REQUIRED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE WORKS DURING CONSTRUCTION.

GN4. WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT EDITION OF THE BCA AND THERE-BY LAWS AND ORDINANCES OF THE RELEVANT AUTHORITY

GN5. DIMENSION SHALL NOT BE OBTAINED BY SCALING THE STRUCTURAL DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR SET OUT PLAN MEASUREMENTS. ANY SET OUT DIMENSIONS SHOWN ON THIS DOCUMENT SHALL BE VERIFIED BY THE BUILDER.

GN6. ANY DISCREPANCIES/ SUBSTITUTION IN THESE DOCUMENTS SHALL BE REFERRED TO THE ENGINEER FOR DECISION BEFORE PROCEEDING. GN7. THE SECTIONS/ DETAILS ON THESE DRAWINGS ARE INTENDED TO GIVE THE STRUCTURAL SPECIFICATIONS ONLY. ARCHITECTURAL SECTIONS/ DETAILS ON THESE DRAWINGS ARE ILLUSTRATIVE ONI Y

GN8. THESE DOCUMENT ARE SIGNED SUBJECT TO CERTIFICATE OF INSPECTION BEING ISSUED BY NITMA. ALL PIERS, SLAB AND FOOTING REINFORCEMENT SHALL BE INSPECTED BY THE ENGINEER PRIOR TO THE POURING OF CONCRETE. NOTICE SHALL BE GIVEN AT LEAST 24 HOURS **BEFORE INSPECTION.** 

GN9. UNLESS NOTED OTHERWISE, QUALITY OF CONCRETE SHALL BE USED AS FOLLOW:

# SITE CLEARANCE & PREPARATION

SP1. STRIP TOPSOIL AND VEGETATION TO A 100mm MINIMUM DEPTH AND STOCKPILE.

SP2. THE SITE IS TO BE BENCHED BY CUT/FILL TO DESIRED LEVELS.

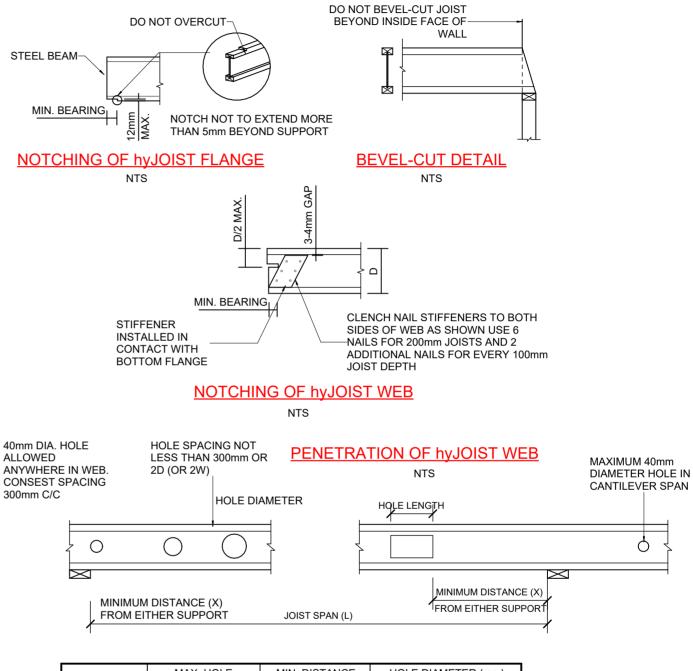
SP3. ANY FILL USED IN THE CONSTRUCTION OF A SLAB EXCEPT WHERE THE SLAB IS SUSPENDED SHALL CONSIST OF "ROLLED OR CONTROLLED FILL" SP3.1. ROLLED FILL SHALL BE PLACED IN LAYERS OF 150mm MAXIMUM IN ACCORDANCE WITH AS2870 AND THOROUGHLY COMPACTED USING AN EXCAVATOR. UNLESS THIS FILL IS COMPACTED IN ACCORDANCE WITH AS2870, IT IS NOT ADEQUATE FOR THE LONG TERM STRUCTURAL SUPPORT TO THE SLAB, FOOTING SYSTEM AND PIERS MUST BE CONSTRUCTED.

SP3.2. CONTROLLED FILL SHALL BE PLACED, TESTED AND CERTIFIED BY A QUALIFIED GEOTECHNICAL ENGINEER AS DEFINED IN AS3798. THIS IS THEN DEEMED TO BE ADEQUATE TO SUPPORT THE SLAB/ FOOTING SYSTEM

SP4 THE FILL IS TO EXTEND PAST THE EDGE OF THE SLAB BY AT LEAST ONE METRE AND SHALL BE BATTERED OFF NOT STEEPER THAN TWO (HORIZONTAL) TO ONE (VERTICAL) OR BY A SUITABLE RETAINING STRUCTURE PROVIDED BY THE OWNER OF BUILDER.

SP5. THE FINISHED LEVELS SHALL ALLOW FOR THE MAIN SLAB TO BE AT LEAST 150mm ABOVE THE ADJACENT GROUND

SP6. SURFACE DRAINAGE SHALL BE PROVIDED AS REQUIRED TO AVOID THE POSSIBLITY OF WATER PONDING NEAR THE SLAB. A FALL OF 50mm OVER A DISTANCE OF ONE METRE AWAY FROM THE SLAB IS CONSIDERED ADEQUATE. SUBSOIL DRAINS (AGRICULTURAL DRAINS) ARE CONSIDERED DESIRABLE BUT SHOULD BE AVOIDED BEING LOCATED DIRECTLY ADJACENT TO THE FOOTING.



| hyJOIST | MAX. HOLE     | MIN. DISTANCE    | HOLE DIAM | IETER (mm) |  |
|---------|---------------|------------------|-----------|------------|--|
| (mm)    | DIAMETER (mm) | FROM SUPPORT 'X' | Ø80       | Ø110       |  |
| HJ20045 | 118           | 0.34L            | 0.16L     | 0.28L      |  |
| HJ24063 | 158           | 0.38L            | 0.12L     | 0.21L      |  |
| HJ24090 | 158           | 0.38L            | 0.12L     | 0.21L      |  |
| HJ30063 | 218           | 0.41L            | 0.10L     | 0.15L      |  |
| HJ30090 | 218           | 0.41L            | 0.10L     | 0.10L      |  |

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| All dimensions are in milimetres. Do not   |
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| scale the drawing. Use written dimensions. |
| Dimensions must be confirmed prior to      |
| commencement. Location of services are     |
| approximate only. Dial 1100 before any     |
| excavation or demolition.                  |

|    | Re                    | visions     | Approved:                                     |   |   |   |   |   |   |    |   |   | NITMA CONSULTING PTY LTD   | PROJECT :         | PROPOSE               |
|----|-----------------------|-------------|---|---|---|---|---|---|---|----|---|---|--|-------------------|-----------------------|
| 6. | For Coordination only |             | Quoc Huy Nguyen<br>PhD (Eng). MIEAust, CPEng, |   |   | ſ |   |   | N | 1/ | 4 |   | PO Box 43, West Ryde NSW 1685<br>M: 0434 284 585<br>E: admin@nitma.com.au<br>W: nitma.com.au | ADDRESS:<br>LGA : | 173 BIRDW<br>CANTERBU |
|    | Designed: HD          | Checked: KV | NER Reg. No. 208 2513                         | С | 0 | Ν | S | U | L | ТΙ | Ν | G | © Copyrigt. All rights reserved.   | Project No:       | 6370S                 |

POSED ADDITION & ALTERATIONS BIRDWOOD RD. GEORGES HALL TERBURY-BANKSTOWN COUNCIL

GENERAL NOTES



Issue: A Date: 28.05.2024

Drawing No: GN1

### STRUCTURAL STEEL

SS1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS4100.

SS2. BOLTS NOT DESIGNATED SHALL BE GRADE 8.8/S BOLTS TO AS1252, TIGHTENED TO A SNUG TIGHT FIT. BOLTS DESIGNATED 8.8/TF AND 8.8/TB SHALL BE HIGH STRENGTH STEEL BOLTS TO AS1252, FULLY TENSIONED IN ACCORDANCE WITH AS4100.

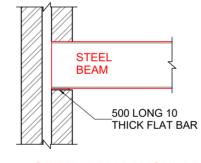
SS3. ALL WELDS SHALL BE GP (GENERAL PURPOSE) IN ACCORDANCE WITH AS1554, USING CLASS E48 ELECTRODES UNLÉSS NOTED OTHERWISE.

SS4. STEELWORK CONNECTIONS SHALL BE IN ACCORDANCE WITH THE FOLLOWING MINIMUM REQUIREMENTS UNLESS NOTED OTHERWISE.

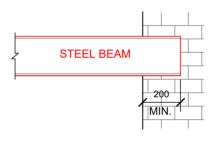
A) ALL WELDS SHALL BE 6mm CONTINUOUS FILLET WELD ALL AROUND. B) ALL BOLTS SHALL BE M20-8.8/S BOLTS, WITH A MINIMUM OF 2 BOLTS PER CONNECTION.

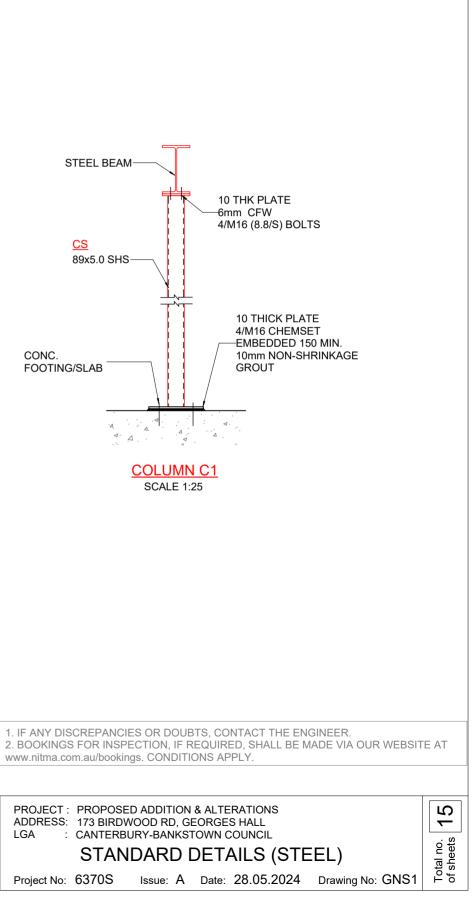
C) ALL GUSSET AND CLEAT PLATES SHALL BE 10mm THICK. SS5. UNLESS OTHERWISE SPECIFIED ALL INTERNAL STEELWORK SHALL BE PROVIDED WITH CORROSION PROTECTION OF 75um ZINC SILICATE PRIMER AS PER AS2312, ALL EXTERNAL STEELWORK SHALL BE HOT DIPPED GALVANISED TO AS4680.

SS6. FIRE PROTECTION FOR STEEL MEMBERS TO NCC/BCA REQUIREMENTS



STEEL BEAM ANGULAR END-BEARING (TYP.) SCALE 1:25





STEEL BEAM STRAIGHT END-BEARING (TYP.) SCALE 1:25

| All dimensions are in milimetres. Do not  | Re                    | evisions    | Approved:   |              | NITMA CONSULTING PTY LTD   | PROJECT : PROPOS                           |
|---|-----------------------|-------------|---|--------------|--|--|
| scale the drawing. Use written dimensions.<br>Dimensions must be confirmed prior to<br>commencement. Location of services are | For Coordination only |             | Quoc Huy Nguyen                                     | <b>N</b> TmA | PO Box 43, West Ryde NSW 1685<br>M: 0434 284 585<br>E: admin@nitma.com.au<br>W: nitma.com.au | ADDRESS: 173 BIRD<br>LGA : CANTERE<br>STAN |
| approximate only. Dial 1100 before any excavation or demolition.  | Designed: HD          | Checked: KV | PhD (Eng). MIEAust, CPEng,<br>NER Reg. No. 208 2513 | CONSULTING   | © Copyrigt. All rights reserved.   | Project No: 6370S                          |

A3 size: aper

### **CONCRETE PIERS**

CP1. PIER DIAMETER AND LOCATIONS ARE SHOWN ON PLAN. ONLY WITH THE PRIOR APPROVAL OF THE ENGINEER MAY THE PIER DIAMETER BE VARIED AS PER THE "PIER DIAMETER TABLE"BELOW. CP2. UNLESS NOTED OTHERWISE. MINIMUM PIER DEPTH IS 600mm BELOW FOOTING TRENCH AND WHEREVER NOMINATED SHOULD BE SOCKETED A MINIMUM 300mm INTO STIFF CLAY. CP3. ALL PIER HOLES SHALL BE CLEANED AND DE-WATERED PRIOR TO THE POURING OF CONCRETE.

CP4. ALL PIERS SHALL BE POURED SEPARATELY TO SLAB.

CP5. IF ANY OF THE FOOTING BEAMS ENCOUNTER ROCK OR SHALE, THEN ALL BEAMS AND LOAD BEARING SPINE BEAMS SHALL BE PIERED TO ROCK OR SHALE. IF PARTIALLY PIERED TO ROCK THEN BRICK JOINTS ARE TO BE PROVIDED AT THE ROCK/ NON-ROCK INTERFACE.

| PIER DIAMETER TABLE |                               |                         |  |  |  |  |  |  |
|---------------------|-------------------------------|-------------------------|--|--|--|--|--|--|
| STRATA              | MIN. BEARING<br>CAPACITY(kPa) | SINGLE<br>STOREY        | DOUBLE<br>STOREY                       |  |  |  |  |  |
| STIFF CLAY          | 250                           | Ø400 @2.0m<br>CTS U.N.O | Ø450 @ 2.0m CTS,<br>OR Ø400 @ 1.5m CTS |  |  |  |  |  |
| ROCK/SHALE          | 600                           | Ø400 @2.0m<br>CTS U.N.O | Ø450 @ 2.0m CTS,<br>OR Ø400 @ 1.5m CTS |  |  |  |  |  |

# FOOTINGS AND FLOOR SLAB

FS1. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE PIER TOPS ARE CLEAN OF FOREIGN MATTER PRIOR TO THE PLACEMENT OF THE MEMBRANE AND CONCRETE SLAB. ENGINEER'S SPOT CHECK DOES NOT RELEASE THE CONTRACTOR FROM THIS RESPONSIBILITY. FS2. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS3600.

FS3. PIPES OR CONDUITS SHALL NOT BE PLACED WITHIN THE CONCRETE COVER TO REINFORCEMENT WITHOUT THE APPROVAL OF THE ENGINEER.

FS4. PIPE PENETRATION IN THE EDGE AND SPINE BEAMS ARE TO BE CARRIED OUT IN ACCORDANCE WITH THE DETAILS. WHERE SLAB FABRIC IS CUT TO PERMIT PENETRATIONS OF PIPES, A 600 x 600mm PIECE OF FABRIC IS TO BE SPLICED OVER THE PENETRATION.

FS5. FOR 'H' AND 'E' CLASS SITES, ALL PENETRATIONS THROUGH FOOTINGS AND EDGE BEAMS SHALL BE SLEAVED TO ALLOW MINIMUM 20mm ('H' CLASS) AND 40mm ('E' CLASS) MOVEMENT AS PER AS2870. ALL PLUMBING AND DRAINAGE SERVICES ARE TO BE FITTED WITH FLEXIBLE CONNECTIONS AS PER AS2870. FS6. SUBTERRANEAN TERMITE PROTECTION IS TO BE

PROVIDED IN ACCORDANCE WITH THE REQUIREMENTS OF AS3660.

All dimensions are in milimetres. Do not scale the drawing. Use written dimensions. Dimensions must be confirmed prior to commencement. Location of services are approximate only. Dial 1100 before any excavation or demolition

| Re                    | evisions    | Approved:  |     |
|-----------------------|-------------|--|-----|
| For Coordination only |             |  |     |
|                       |             | Quoc Huy Nguyen  |     |
| Designed: HD          | Checked: KV | <ul> <li>PhD (Eng). MIEAust, CPEng,<br/>NER Reg. No. 208 2513</li> </ul> | ĈΟΝ |

FS7. A DAMP-PROOF MEMBRANE MUST BE PLACED BENEATH THE SLAB SO THAT THE BOTTOM OF THE SLAB IS ENTIRELY UNDERLAIN. THE DAMP-PROOF MEMBRANE MUST BE 0.2mm NOMINAL THICK POLYTHENE FILM AND OF HIGH IMPACT RESISTANCE. LAPS SHALL BE 200mm MINIMUM AT JOINTS. ALL PLUMBING PENETRATION AND JOINTS ARE TO BE TAPED AND WATERPROOFED. THE SITE IS TO BE PROPERLY DRAINED TO ELIMINATE SURFACE AND SUBSOIL WATER FLOW.

FS8. ALL REINFORCEMENT SHALL BE FIRMLY SUPPORTED ON INSULATED STEEL, PLASTIC OR CONCRETE CHAIRS, BAR CHAIRS SHALL BE PLACED SUCH THAT REINFORCEMENT IS ALWAYS POSITIONED WITH SPECIFIED COVER. FS9. SPLICES IN REINFORCEMENT SHALL BE MADE ONLY IN THE POSITIONS SHOWN. THE WRITTEN APPROVAL OF THE ENGINEER SHALL BE OBTAINED FOR ANY OTHER SPLICES WHERE LAP LENGTHS ARE NOT SHOWN THEY SHALL SATISFY THE REQUIREMENTS OF AS3800.

FS10. IF SLAB FABRIC IS USED, IT IS TO BE SUPPLIED IN FLAT SHEETS AND IS TO BE LAPPED ONE FULL SQUARE PLUS 25mm AT SPLICES AND PLACED ON BAR CHAIRS AT ONE METRE CENTRES BOTH WAYS UNLESS REDUCED SPACING IS SPECIFIED. FS11. WELDING OF REINFORCEMENT OTHER THAN TACK WELDING FOR PURPOSE OF MAINTAINING BARS IN CORRECT POSITION IS NOT PERMITTED UNLESS SPECIFICALLY NOMINATED ON THE DRAWINGS OR AS DIRECTED BY THE ENGINEER

FS12. ALL CONCRETE SHALL BE MECHANICALLY VIBRATED. VIBRATORS SHALL NOT BE USED TO SPREAD CONCRETE.

FS13. REINFORCEMENT IS REPRESENTED DIAGRAMMATICALLY ONLY, IT IS NOT NECESSARILY SHOWN IN TRUE PROJECTION. FS14. BEAM DEPTHS ARE WRITTEN FIRST AND INCLUDE SLAB THICKNESS, IF ANY. THICKNESS OF APPLIED FINISHES ARE NOT INCLUDED.

FS15. UNLESS NOTED OTHERWISE, QUALITY OF CONCRETE SHALL BE USED AS FOLLOW:

| ELEMENT                         |    | MAX.AGG<br>SIZE (mm) |   |     | SALINITY<br>AFFECTED SITE |
|---------------------------------|----|----------------------|---|-----|---------------------------|
| PIERS                           | 80 | 20                   | А | N20 | N32                       |
| FOOTING &<br>SLAB ON GROUND     | 80 | 20                   | А | N25 | N32                       |
| SUSPENDED SLAB<br>WALL & COLUMN | 80 | 20                   | А | N32 | N32                       |

FS16. UNLESS NOTED OTHERWISE. COVER FOR REINFORCEMENT SHALL BE PROVIDED AS FOLLOW:

| FLEMENT  | CAST AGAIN | IST FORMS | CAST AGAINSTGROUND |             |  |  |
|----------|------------|-----------|--------------------|-------------|--|--|
|          | INTERIOR   | EXTERIOR  | PROTECTED          | UNPROTECTED |  |  |
| PIERS    | 40         | 40        | 40                 | 50          |  |  |
| FOOTINGS | 50         | 50        | 50                 | 50          |  |  |
| SLABS    | 20         | 40        | 30                 | 40          |  |  |
| WALLS    | 40         | 40        | 50                 | 50          |  |  |
| BEAMS    | 40         | 40        | 40                 | 40          |  |  |
| COLUMNS  | 25         | 40        |                    |             |  |  |

## MASONRY

SS6. MEMBERS ENCASED IN CONCRETE, FIRE SPRAYED OR HSTF BOLTED CONNECTIONS MUST NOT BE PAINTED, MS1, LOAD BEARING MASONRY SHALL COMPLY WITH AS3700 AND THE PROJECT SPECIFICATIONS SS7. FIRE PROTECTION TO BCA'S REQUIREMENTS, IF APPLICABLE MS2. THE MINIMUM CHARACTERISTIC COMPRESSIVE STRENGTH OF THE MASONRY UNITS AS DESCRIBED IN AS3700 SHALL BE 20MPa UNLESS NOTED OTHERWISE.

MS3. MASONRY SHALL BE ARTICULATED BY THE CONTRACTOR IN ACCORDANCE WITH THE BCA CLASS 1 AND 10 BUILDINGS, VOLUME 2. MS4. BRICKWORKS SUPPORTING A CONCRETE SLAB SHALL BE SEPARATED FROM THE SLAB BY TWO LAYERS OF 'ALCOR' OR SIMILAR SLIP JOINT MATERIAL.

MS5. MASONRY WALLS MUST NOT BE BUILT ON CONCRETE SLABS OR BEAMS UNTIL ALL FORMWORK/ PROPS SUPPORTING THESE SLABS AND BEAMS HAVE BEEN REMOVED. MS6. ALL WALL TIES TO BE BUILT IN AND FIXED TO FRAME PROGRESSIVELY AS CONSTRUCTION PROCEEDS SPACED AT EACH SIDE OF EXPANSION JOINTS AND AT EACH THIRD COURSE. THE SPACING OF ALL OTHER TIES SHALL BE AS DESCRIBED IN THE BCA CLASS 1 AND 10 BUILDINGS. VOLUME 2.

# **REO BAR LAP & COG LENGTH**

(RESPONDING TO 32MPa CONCRETE/ 25MPa CONCRETE OR LOWER RESPECTIVELY)

| BAR DIA(mm) | SLAB&WALL  | BEAM&COLUMN | OTHERS     |
|-------------|------------|-------------|------------|
| 12          | 350/ 410   | 420/ 530    | 460/ 580   |
| 16          | 540/ 680   | 700/ 880    | 760/ 960   |
| 20          | 790/ 1000  | 1020/ 1290  | 1110/ 1400 |
| 24          | 920/ 1040  | 1190/ 1340  | 1300/1470  |
| 28          | 1050/ 1190 | 1360/ 1540  | 1480/ 1680 |

| LINTEL<br>(mm)    | MAX. CLEAR SPAN OF<br>LINTEL: UP TO 600 OF<br>MASONRY OVER OPENING | MAX. CLEAR SPAN OF<br>LINTEL: OVER 600 OF<br>MASONRY OVER OPENING | END<br>BEARING |
|-------------------|--|---|----------------|
| FLAT 75X8         | 700  | 700   | 100mm          |
| FLAT BAR 100X10   | 900  | 900   | 100mm          |
| ANGLE 90X90X6EA   | 3000   | 3000  | 150mm          |
| ANGLE 90X90X8EA   | 3200   | 2800  | 150mm          |
| ANGLE 100X100X6EA | 3350   | 2900  | 150mm          |
| ANGLE 100X100X8EA | 3600   | 3040  | 150mm          |
| ANGLE 150X90X8UA  | 4200   | 3850  | 150mm          |

ALL STEEL LINTELS TO BE HOT DIPPED GALVANISED

### **REQUIRED COVER WHERE STANDARD** FORMWORK AND COMPACTION ARE USED

| EXPOSURE<br>CLASSIFICATION | REQUIRED COVER, mm<br>CHARACTERISTIC STRENGTH (f <sup>r</sup> c) |        |        |        |          |  |  |  |
|----------------------------|--|--------|--------|--------|----------|--|--|--|
| CLASSIFICATION             | 20 MPa   | 25 MPa | 32 MPa | 40 MPa | ≥ 50 MPa |  |  |  |
| A1                         | 20   | 20     | 20     | 20     | 20       |  |  |  |
| A2                         | (50)   | 30     | 25     | 20     | 20       |  |  |  |
| B1                         |  | (60)   | 40     | 30     | 25       |  |  |  |
| B2                         |  |        | (65)   | 45     | 35       |  |  |  |
| C1                         |  |        |        | (70)   | 50       |  |  |  |
| C2                         |  |        |        |        | 65       |  |  |  |

NOTE: BRACKETED FIGURES ARE APPROPRIATE COVERS WHEN THE CONCESSION GIVEN IN CLAUSE 4.3.2 OF AS3600, RELATING TO THE STRENGTH GRADE PERMITTED FOR A PARTICULAR EXPOSURE CLASSIFICATION. IS APPLIED

| NITMA CONSULTING PTY LTD<br>PO Box 43, West Ryde NSW 1685   | PROJECT : PROPO<br>ADDRESS: 173 BIF |
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# **BRICK LINTEL SCHEDULE**

**OSED ADDITION & ALTERATIONS** RDWOOD RD. GEORGES HALL ERBURY-BANKSTOWN COUNCIL

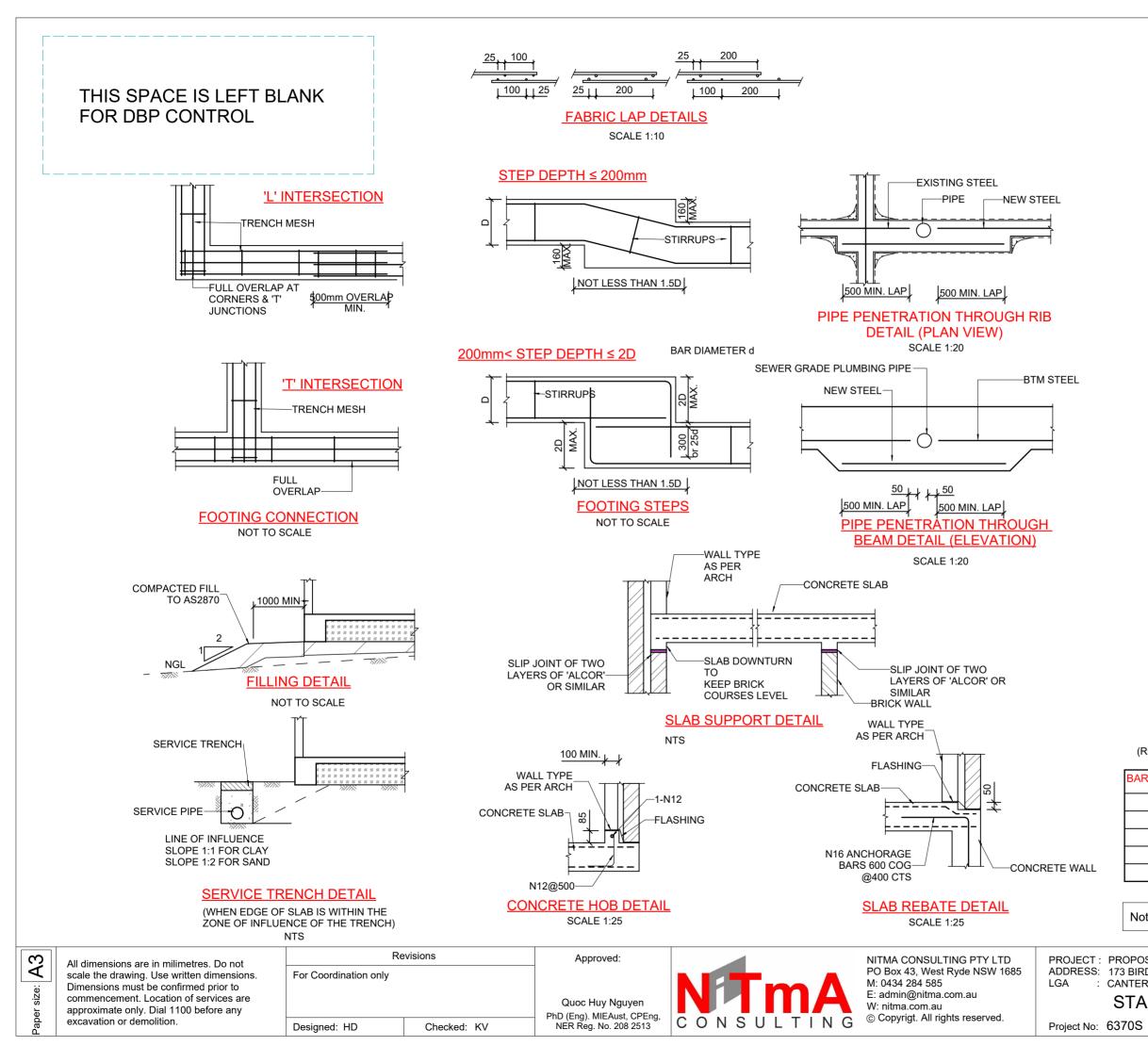
# ANDARD DETAILS (CONC)

S Issue: A Date: 28.05.2024 Drawing No: GNC1

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Total no. of sheets



### **REO BAR LAP & COG LENGTH**

(RESPONDING TO 32MPa CONCRETE/ 25MPa CONCRETE OR LOWER RESPECTIVELY)

| BAR DIA(mm) | SLAB&WALL  | BEAM&COLUMN | OTHERS     |  |  |  |  |  |  |
|-------------|------------|-------------|------------|--|--|--|--|--|--|
| 12          | 350/ 410   | 420/ 530    | 460/ 580   |  |  |  |  |  |  |
| 16          | 540/ 680   | 700/ 880    | 760/ 960   |  |  |  |  |  |  |
| 20          | 790/ 1000  | 1020/ 1290  | 1110/ 1400 |  |  |  |  |  |  |
| 24          | 920/ 1040  | 1190/ 1340  | 1300/1470  |  |  |  |  |  |  |
| 28          | 1050/ 1190 | 1360/ 1540  | 1480/ 1680 |  |  |  |  |  |  |

Notes: Some details may not be applicable to current project.

**PROJECT : PROPOSED ADDITION & ALTERATIONS** ADDRESS: 173 BIRDWOOD RD. GEORGES HALL CANTERBURY-BANKSTOWN COUNCIL STANDARD DETAILS (CONC)



Issue: A Date: 28.05.2024 Drawing No: GNC2

# TIMBER

TB1. SOFTWOOD TIMBER TO BE GRADE F7 OR MGP 10 MINIMUM. HARDWOOD TIMBER TO BE GRADE F14 MINIMUM.

TB2. TIMBER EXPOSED TO WEATHER TO BE EXTERIOR GRADE. TIMBER IN CONTACT WITH GROUND TO HAVE TERMITE TREATMENT GRADE IN ACCORDANCE WITH BCA AND AS3660.1.

TB3. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS1684, AS1720 AND AS3959.

TB4\_SOFTWOOD TIMBER TO BE GRADE F7 OR MGP 10 MINIMUM HARDWOOD TIMBER TO BE GRADE F14 MINIMUM.

TB5. TIMBER EXPOSED TO WEATHER TO BE EXTERIOR GRADE. TIMBER IN CONTACT WITH GROUND TO HAVE TERMITE AND PRESERVATIVE TREATMENT GRADE IN ACCORDANCE WITH AS3660 AND AS1604.

TB6. TIMBER TO BE

A3

size:

- DURABILITY CLASS 1

- PRESERVATIVE TREATED H4 LEVEL FOR NON-CRITICAL LANDSCAPING RETAINING WALLS

- PRESERVATIVE TREATED H5 LEVEL FOR CRITICAL STRUCTURAL MEMBERS

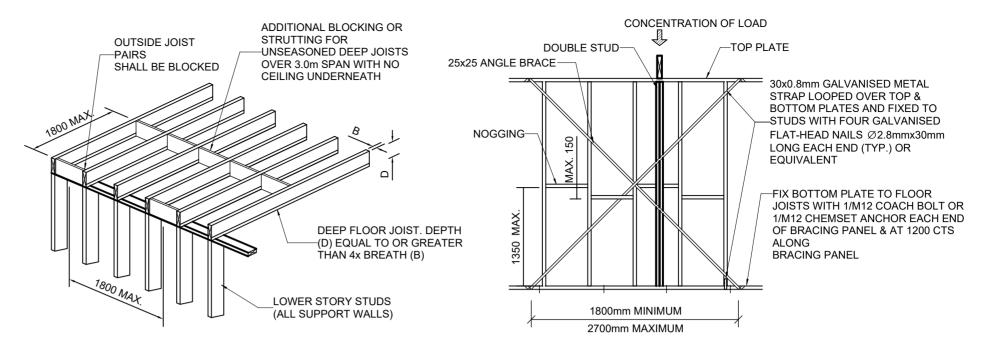
TB7. FIRE PROTECTION FOR TIMBER MEMBERS TO NCC/BCA REQUIREMENTS

# LINTELS - SHEET ROOF - SINGLE OR UPPER STOREY LOAD BEARING WALLS

| SIZE DxB | ROOF LOAD WIDTH (MM) |      |      |      |      |  |  |  |  |
|----------|----------------------|------|------|------|------|--|--|--|--|
| (mm)     | 1500                 | 3000 | 4500 | 6000 | 7500 |  |  |  |  |
| 2/90x45  | 2/90x45 2300 1800    |      | 1600 | 1400 | 1400 |  |  |  |  |
| 2/120x45 | 3000                 | 2400 | 2100 | 1900 | 1700 |  |  |  |  |
| 2/140x45 | 3300                 | 2800 | 2400 | 2200 | 2000 |  |  |  |  |
| 2/170x45 | 3800                 | 3200 | 2900 | 2700 | 2500 |  |  |  |  |
| 2/190x45 | 4100                 | 3500 | 3200 | 3000 | 2800 |  |  |  |  |
| 2/240x45 | 4800                 | 4200 | 3800 | 3500 | 3400 |  |  |  |  |
| 2/290x45 | 5500                 | 4800 | 4400 | 4100 | 3900 |  |  |  |  |

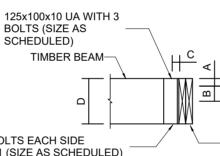
# LINTELS - TILED ROOF - SINGLE OR UPPER STOREY LOAD BEARING WALLS

| SIZE DxB | ROOF LOAD WIDTH (MM)  |      |           |      |      |  |  |  |
|----------|---|------|-----------|------|------|--|--|--|
| (mm)     | 1500  | 3000 | 4500      | 6000 | 7500 |  |  |  |
| 2/90x45  | 1700 1400   |      | 1200      | 1100 | 1000 |  |  |  |
| 2/120x45 | 2300  | 1800 | 1600      | 1400 | 1400 |  |  |  |
| 2/140x45 | x45 2700  |      | 1800      | 1700 | 1500 |  |  |  |
| 2/170x45 | 3100  | 2600 | 2600 2200 |      | 1900 |  |  |  |
| 2/190x45 | 3400  | 2900 | 2500      | 2300 | 2100 |  |  |  |
| 2/240x45 | 2/240x45         4100         3           2/290x45         4700         4 |      | 3100      | 2900 | 2700 |  |  |  |
| 2/290x45 |   |      | 3600      | 3400 | 3100 |  |  |  |



### DEEP FLOOR JOIST BLOCKING NTS

WALL ELEMENTS NTS



| - |  |      |    |     |     |  |  |  |  |  |
|---|--|------|----|-----|-----|--|--|--|--|--|
|   | TIMBER BOLTING SCHEDULE: ALL DIMENSIONS<br>IN (mm) AND GRADE 4.6/S BOLTS |      |    |     |     |  |  |  |  |  |
| Γ | 'D'  | BOLT | А  | В   | С   |  |  |  |  |  |
|   | 190  | M10  | 45 | 50  | 50  |  |  |  |  |  |
|   | 240  | M12  | 50 | 70  | 70  |  |  |  |  |  |
|   | 290  | M16  | 65 | 80  | 80  |  |  |  |  |  |
| L | 360  | M20  | 80 | 100 | 100 |  |  |  |  |  |

PROVIDE 2 BOLTS EACH SIDE OF MEMBER 1 (SIZE AS SCHEDULED)

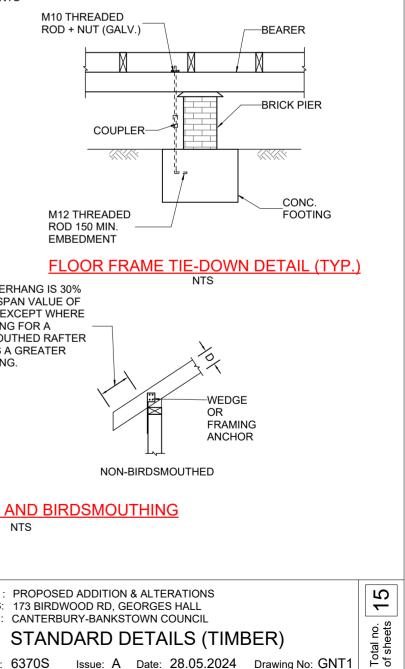
### TIMBER BEAM CONNECTION (ELEV.) NTS

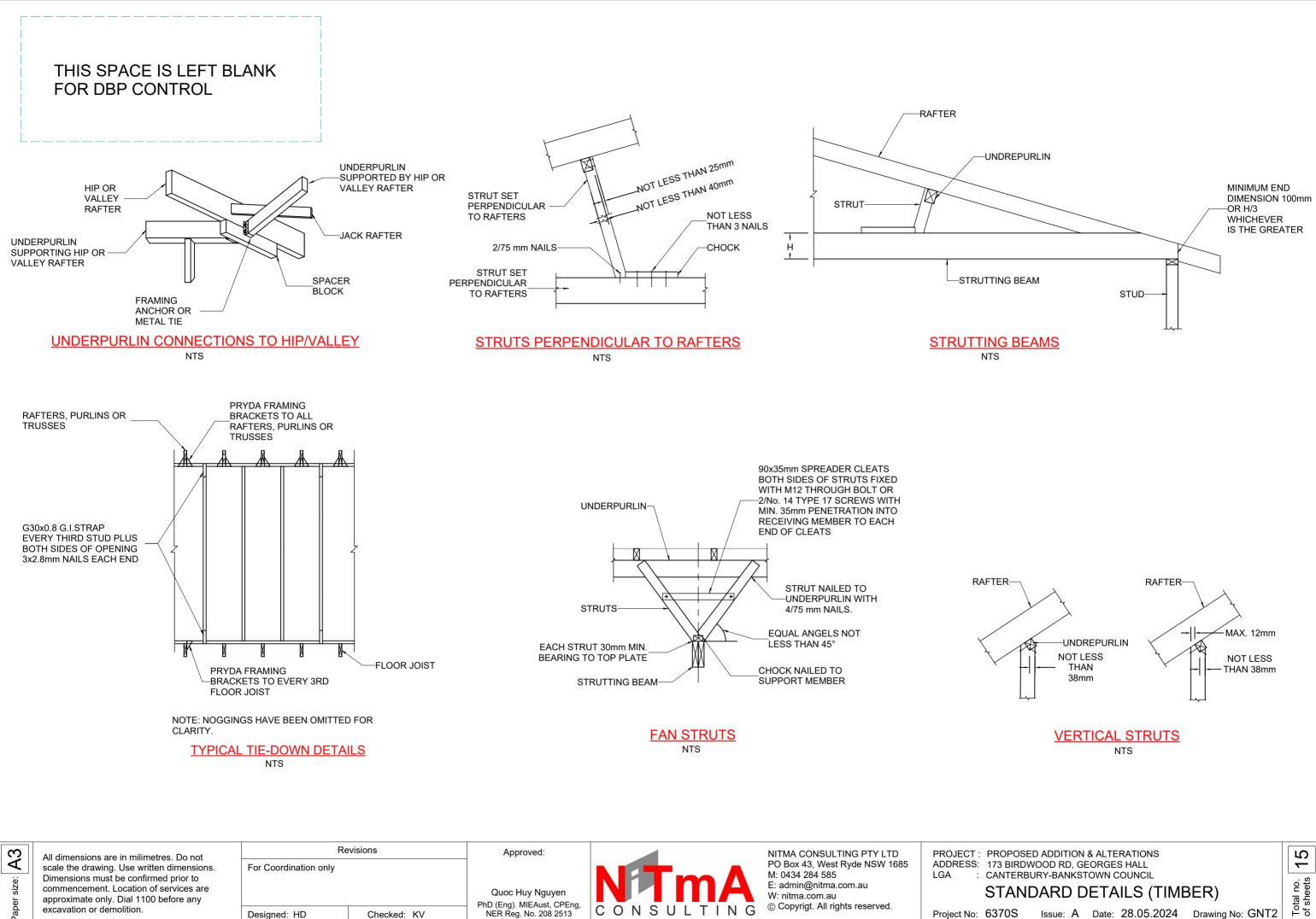
TIMBER BEAM

OR BLOCK SKEW-NAILED TO BEAM MIN. 35x32 mm TIE NAILED TO TOP AND TO SUPPORT WITH 3/75 mm OF BEAM AND TO SUPPORT WITH SKEW NAILS TO EACH MEMBER 2/75 mm NAILS EACH END OR SIMILAR METHOD RAFTER-TIMBER BEAM-BIRDSMOUTHED LATERAL RESTRAINT NTS RAFTER OVERHANG AND BIRDSMOUTHING NTS Notes: Some details may not be applicable to current project.

| 2/290x45   | 4700 | 4000                           | 3600           | 3400            | 3100        |  |   |   |       |   |                                  |             |  |
|--|------|--------------------------------|----------------|-----------------|-------------|--|---|---|-------|---|----------------------------------|-------------|--|
| All dimensions are in milimetres. Do not scale the drawing. Use written dimensions.  |      |                                | For Coordinati | Revis           | sions       | Approved:  |   |   | _     | NITMA CONSULTING PTY LTD<br>PO Box 43, West Ryde NSW 1685 | PROJECT :<br>ADDRESS:            |             |  |
| scale the drawing. Use written dimensions.<br>Dimensions must be confirmed prior to<br>commencement. Location of services are<br>approximate only. Dial 1100 before any<br>excavation or demolition. |      | ned prior to<br>f services are |                | Quoc Huy Nguyen |             |  | Α | M: 0434 284 585<br>E: admin@nitma.com.au<br>W: nitma.com.au | LGA : |   |                                  |             |  |
|  |      |                                | Designed: HD   |                 | Checked: KV | <ul> <li>PhD (Eng). MIEAust, CPEng,<br/>NER Reg. No. 208 2513</li> </ul> | С | ONSU  | JLTI  | ING   | © Copyrigt. All rights reserved. | Project No: |  |

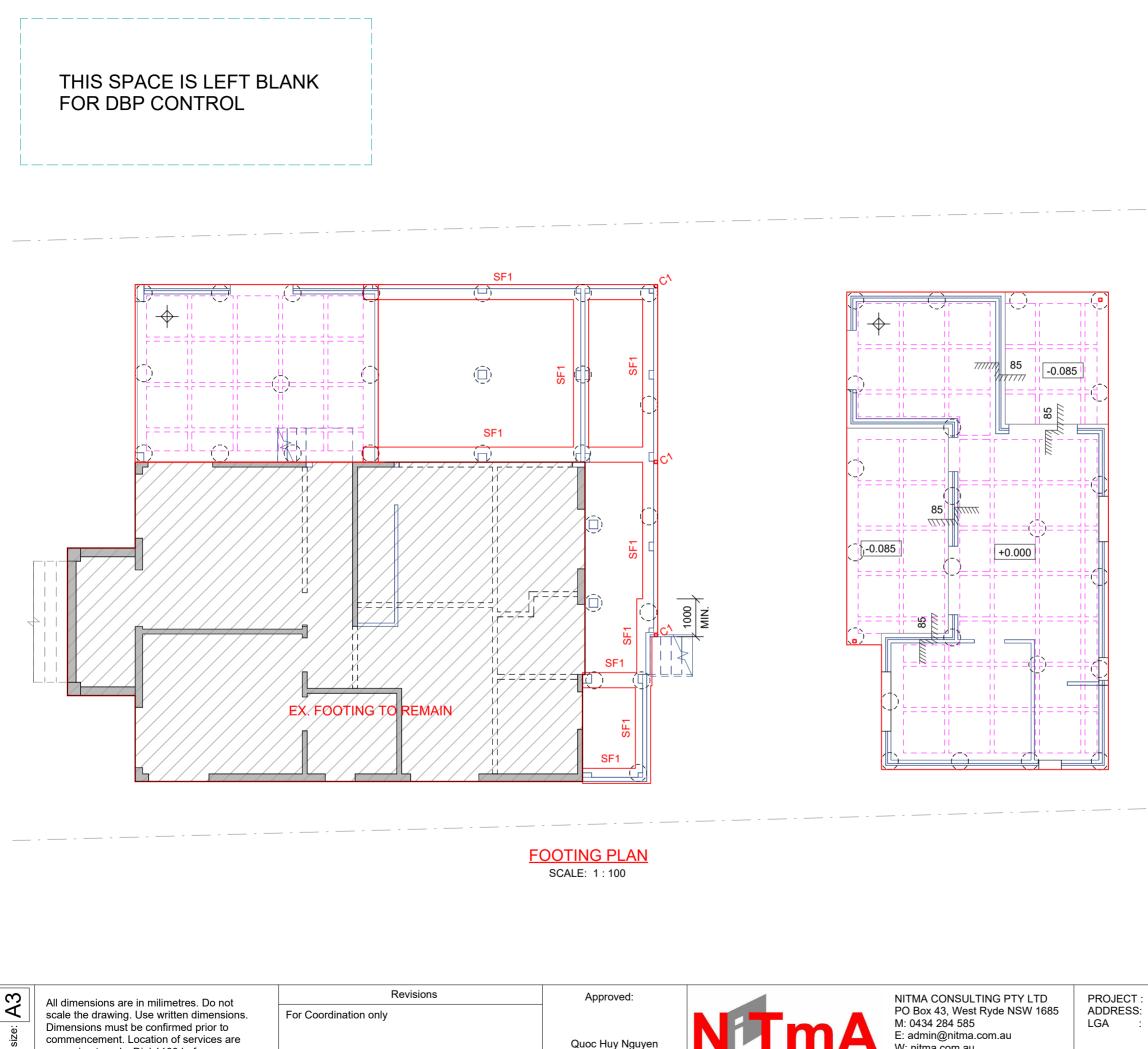
MAX. OVERHANG IS 30% SINGLE SPAN VALUE OF RAFTER EXCEPT WHERE OVERHANG FOR A **BIRDSMOUTHED RAFTER** PERMITS A GREATER OVERHANG.





| c          | All dimensions are in milimetres. Do not   | R                     | evisions    | Approved:                                     |           |          | NITMA CONSULTING PTY LTD   | PROJECT : PROPO   |
|------------|--|-----------------------|-------------|---|-----------|----------|--|---|
| aper size: | scale the drawing. Use written dimensions.<br>Dimensions must be confirmed prior to<br>commencement. Location of services are<br>approximate only. Dial 1100 before any<br>excavation or demolition. | For Coordination only |             | Quoc Huy Nguyen<br>PhD (Eng). MIEAust, CPEng, |           | A<br>N G | PO Box 43, West Ryde NSW 1685<br>M: 0434 284 585<br>E: admin@nitma.com.au<br>W: nitma.com.au<br>© Copyrigt. All rights reserved. | ADDRESS: 173 BII<br>LGA CANTE<br>STA<br>Project No: 63705 |
| ъ<br>С     |  | Designed: HD          | Checked: KV | NER Reg. No. 208 2513                         | OONOOLIII |          |  | Project No: 03703   |

Issue: A Date: 28.05.2024 Drawing No: GNT2 70S



| All ulmensions are in millimetres. Do not  |
|--|
| scale the drawing. Use written dimensions. |
| Dimensions must be confirmed prior to      |
| commencement. Location of services are     |
| approximate only. Dial 1100 before any     |
| excavation or demolition.                  |

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| Re                    | visions     | Approved:                                     |            | NITMA CONSULTING PTY LTD   | PROJECT : PROPOS                  |
|-----------------------|-------------|---|------------|--|-----------------------------------|
| For Coordination only |             | Quoc Huy Nguyen<br>PhD (Eng). MIEAust, CPEng, | NTmA       | PO Box 43, West Ryde NSW 1685<br>M: 0434 284 585<br>E: admin@nitma.com.au<br>W: nitma.com.au<br>© Copyrigt. All rights reserved. | ADDRESS: 173 BIRE<br>LGA : CANTER |
| Designed: HD          | Checked: KV | NER Reg. No. 208 2513                         | CONSULTING | Copyrigi. An rights reserved.  | Project No: 6370S                 |

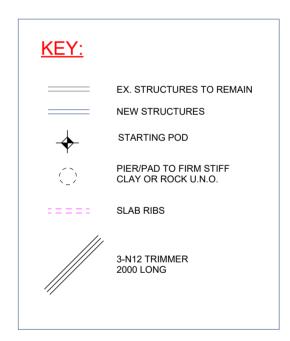
- SLAB THICKNESS: 85mm U.N.O.
- SLAB REINFORCEMENT:
- SL82, 20 COVER U.N.O
- RIB REINFORCEMENT BAR: N12.

### IMPORTANT NOTES

1. GEOTECHNICAL INVESTIGATION HAS NOT BEEN CARRIED OUT, THE BUILDER MUST CONTACT THE ENGINEER FOR INSPECTION OF FOUNDATION BEFORE LAYING REINFORCEMENT FOR FOOTING.

IF FOUNDATION OF ADEQUATE BEARING (REFER TO SHEET 1) IS ENCOUNTERED DURING EXCAVATION, PIERS CAN BE DELETED.

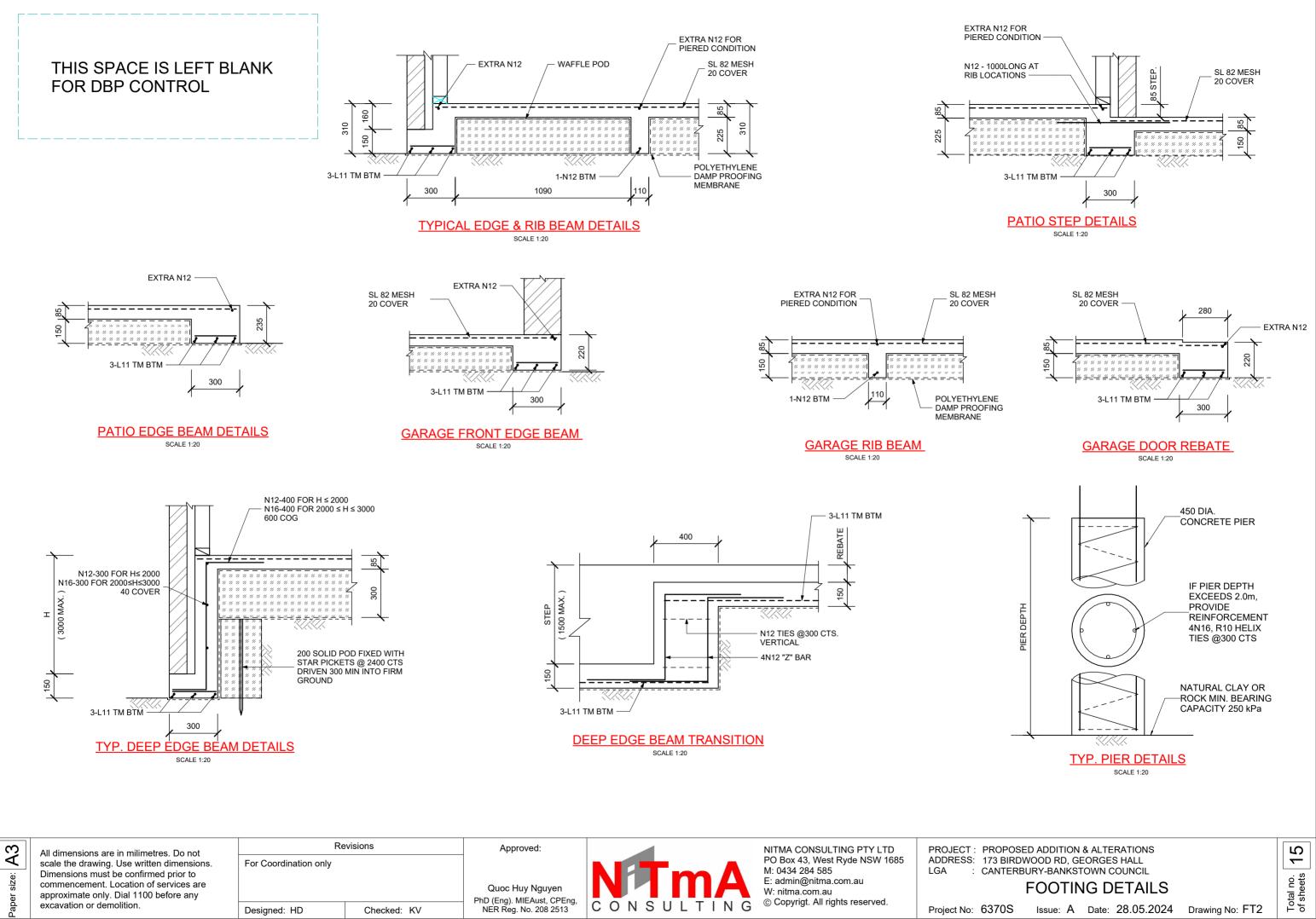
2. WAFFLE PODS OF LESS THAN 200mm WIDTH CAN BE DELETED.



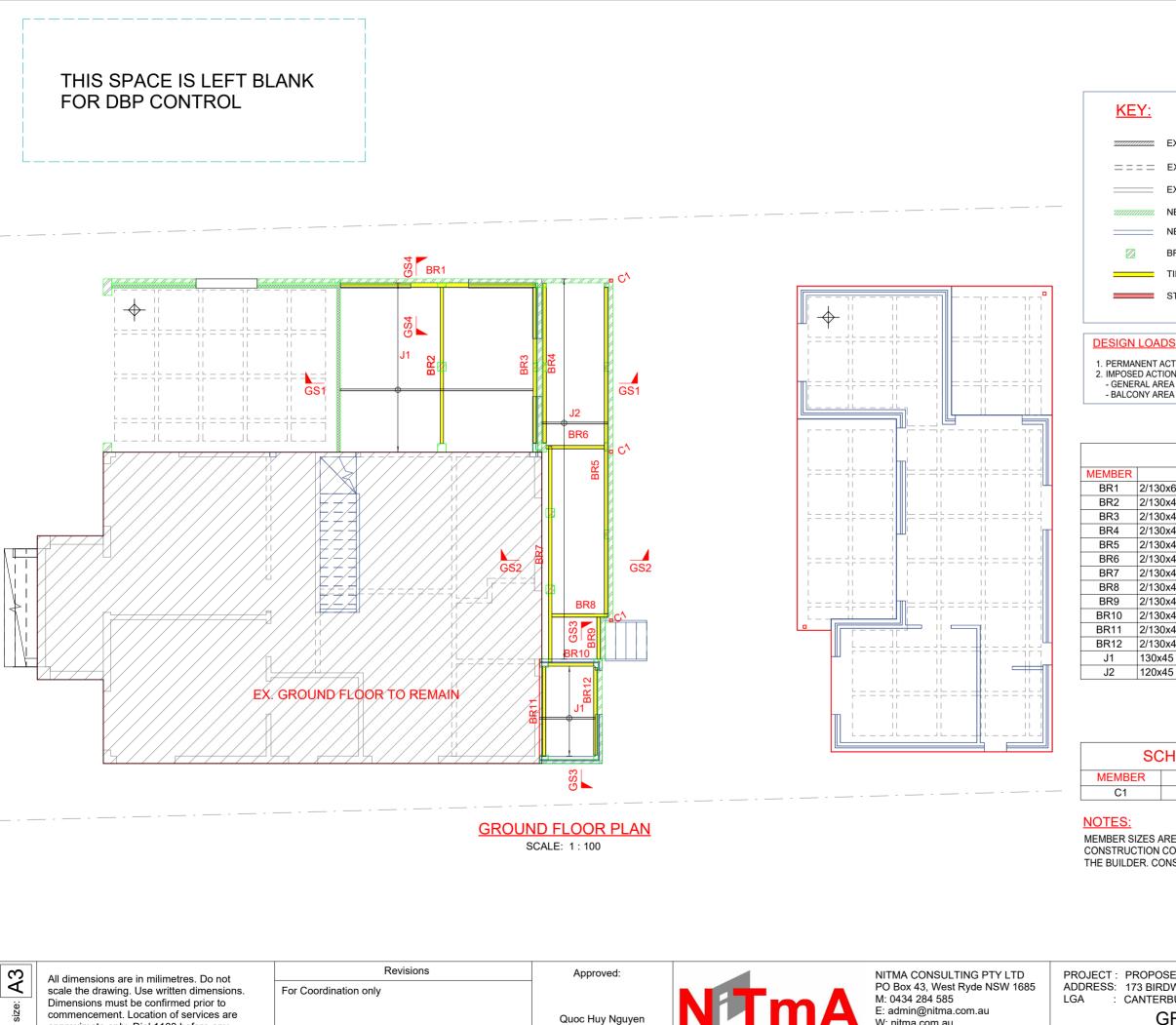
**OSED ADDITION & ALTERATIONS** RDWOOD RD, GEORGES HALL ERBURY-BANKSTOWN COUNCIL FOOTING PLAN

| 15                     |  |
|------------------------|--|
| Total no.<br>of sheets |  |

Issue: A Date: 28.05.2024 Drawing No: FT1 S



| e        | All dimensions are in milimetres. Do not  | Re                    | evisions    | Approved:                                     |            | NITMA CONSULTING PTY LTD                         | PROJECT : PROPO                 |
|----------|---|-----------------------|-------------|---|------------|--|---------------------------------|
| ∢        | scale the drawing. Use written dimensions.  | For Coordination only |             |   |            | PO Box 43, West Ryde NSW 1685<br>M: 0434 284 585 | ADDRESS: 173 BIF<br>LGA : CANTE |
| er size: | Dimensions must be confirmed prior to<br>commencement. Location of services are<br>approximate only. Dial 1100 before any |                       |             | Quoc Huy Nguyen<br>PhD (Eng). MIEAust, CPEng, | NAMA       | E: admin@nitma.com.au<br>W: nitma.com.au         | LGA : CANTE                     |
| Pap      | excavation or demolition.   | Designed: HD          | Checked: KV | NER Reg. No. 208 2513                         | CONSULTINO |  | Project No: 6370S               |



PhD (Eng). MIEAust, CPEng,

NER Reg. No. 208 2513

CONSULTING

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|----------------------------------|------------|
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|                                  | Project No |

approximate only. Dial 1100 before any excavation or demolition.

Designed: HD

Checked: KV

per

- EX. STRUCTURES UNDERNEATH TO REMAIN  $\equiv$  = =  $\equiv$   $\quad$  EX. WALLS UNDERNEATH TO BE REMOVED
  - EX. STRUCTURES ON FLOOR TO REMAIN
  - NEW LOAD BEARING WALLS UNDERNEATH
  - NEW STRUCTURES ON FLOOR
  - BRICK PIER
  - TIMBER BEAM
  - STEEL BEAM

| NT ACTION: | 0.5kPa. |
|------------|---------|
| ACTION :   |         |
| L AREA     | 1.5kPa  |
| Y AREA     | 2.0kPa  |

| GROUND FLO                       | <u>OR</u> |                 |
|----------------------------------|-----------|-----------------|
| SIZES                            | COMMENT   | MAX. CLEAR SPAN |
| 2/130x63 hySPAN                  | H3        | 2600            |
| 2/130x45 hySPAN                  | H3        | 2000            |
| 2/130x45 hySPAN                  | H3        | 2000            |
| 2/130x45 hySPAN                  | H3        | 2100            |
| 2/130x45 hySPAN                  | H3        | 2100            |
| 2/130x45 hySPAN                  | H3        | 1700            |
| 2/130x45 hySPAN                  | H3        | 1900            |
| 2/130x45 hySPAN                  | H3        | 1700            |
| 2/130x45 hySPAN                  | H3        | 800             |
| 2/130x45 hySPAN                  | H3        | 1300            |
| 2/130x45 hySPAN                  | H3        | 2500            |
| 2/130x45 hySPAN                  | H3        | 2500            |
| 30x45 hySPAN @450 CTS.           | H3        | 2600            |
| 20x45 F7, TREATED PINE @450 CTS. | H3        | 1700            |

### SCHEDULE COLUMNS

| R | SIZE         |
|---|--------------|
|   | 89x89x5.0SHS |

MEMBER SIZES ARE MINIMUM ONLY AND CAN BE UPGRADED TO SUIT CONSTRUCTION CONDITIONS. SPANS TO BE CONFIRMED ON SITE BY THE BUILDER. CONSULT ENGINEER IF IN DOUBT.

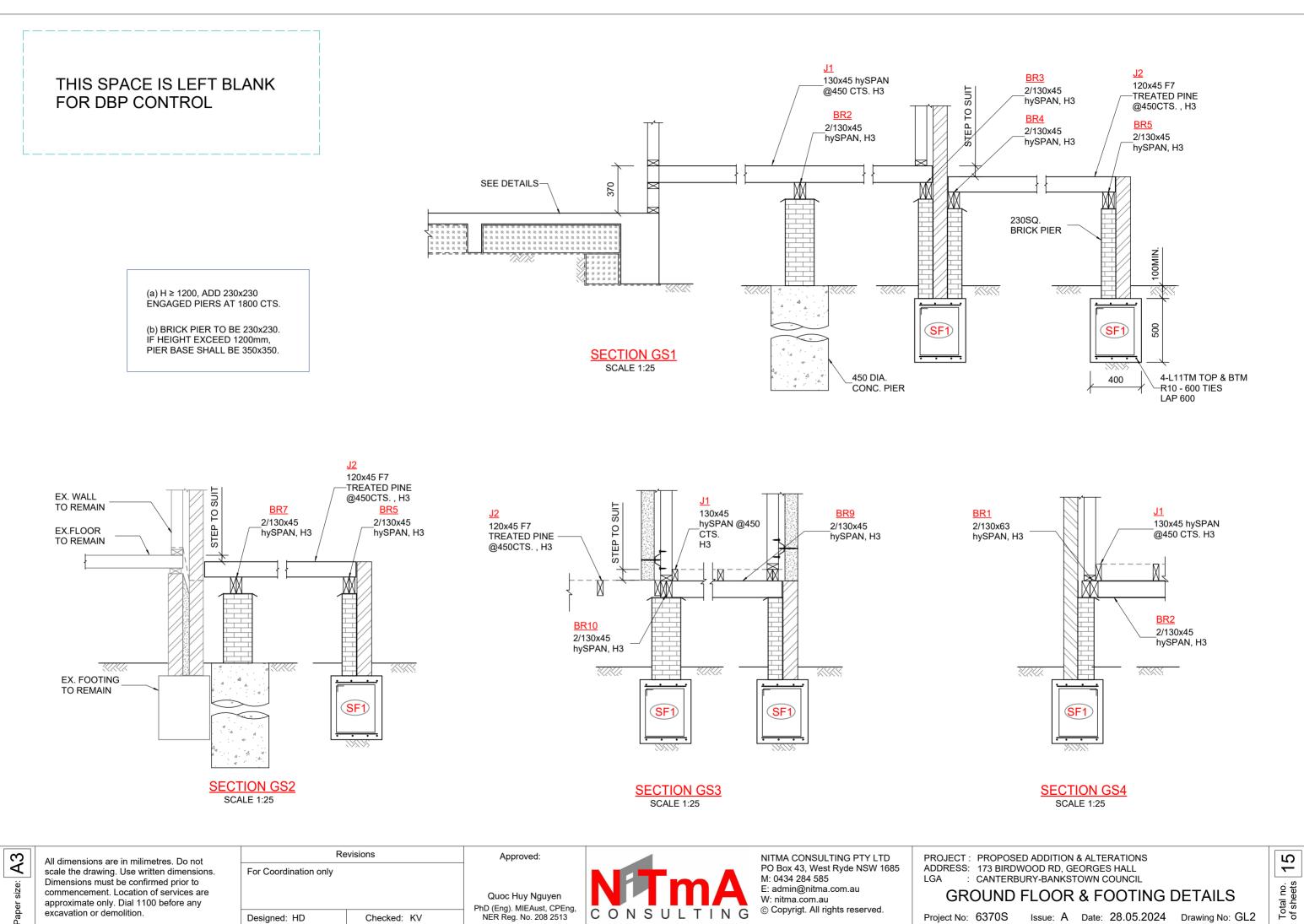
**PROJECT : PROPOSED ADDITION & ALTERATIONS** ADDRESS: 173 BIRDWOOD RD, GEORGES HALL CANTERBURY-BANKSTOWN COUNCIL

# **GROUND FLOOR PLAN**



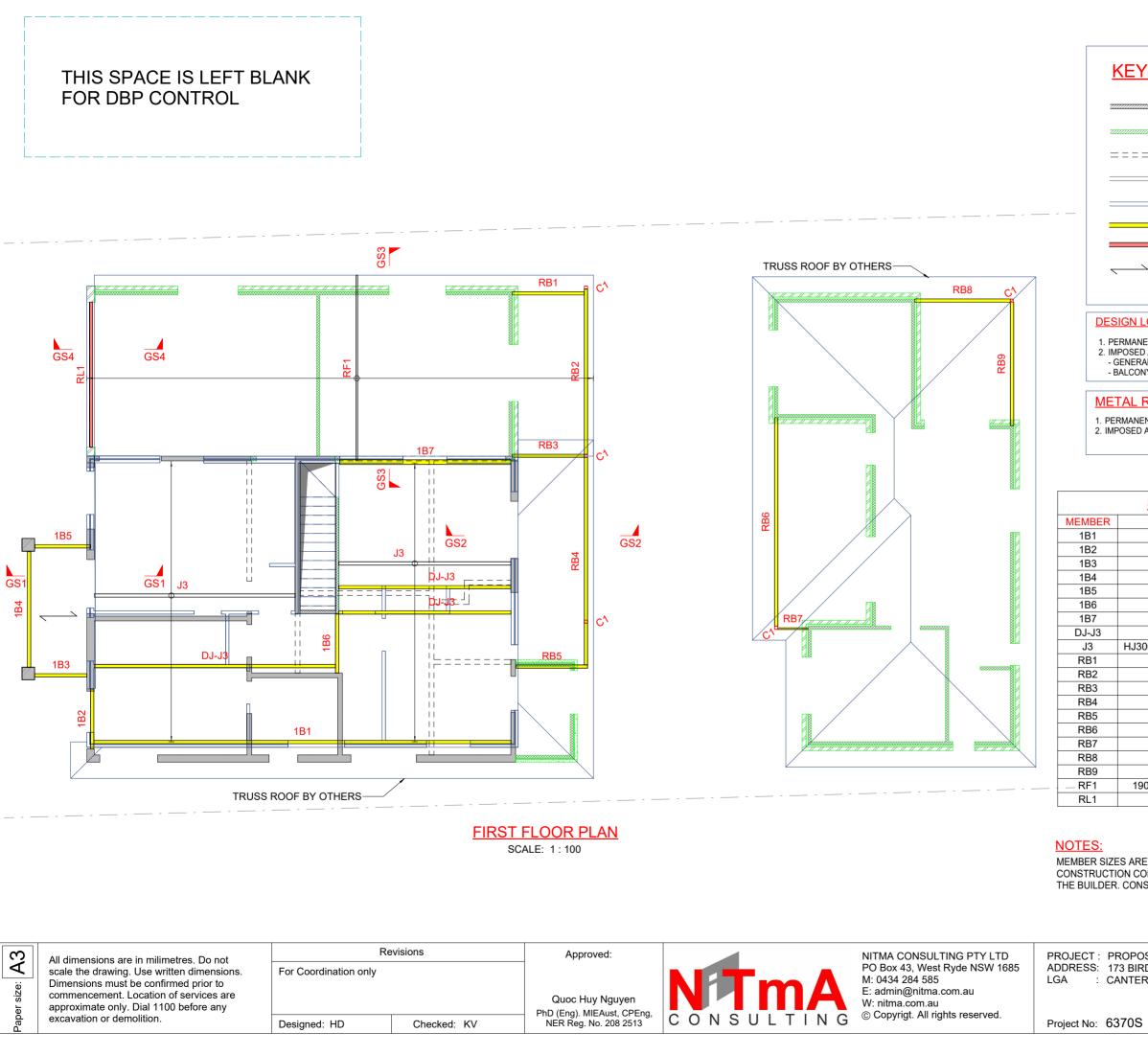
Issue: A Date: 28.05.2024 Drawing No: GL1





| scale the una |
|---------------|
| Dimensions r  |
| commencem     |
| approximate   |
| avaguation of |

| n milimetres. Do not<br>Jse written dimensions.<br>e confirmed prior to<br>cation of services are<br>vial 1100 before any | Re<br>For Coordination only | evisions    | Approved:<br>Quoc Huy Nguyen<br>PhD (Eng). MIEAust, CPEng, | NTm     | A   | NITMA CONSULTING PTY LTD<br>PO Box 43, West Ryde NSW 1685<br>M: 0434 284 585<br>E: admin@nitma.com.au<br>W: nitma.com.au<br>© Copyrigt. All rights reserved. | PROJECT : PROF<br>ADDRESS: 173 B<br>LGA : CANT<br>GROUN |
|---|-----------------------------|-------------|--|---------|-----|--|---|
| lition.   | Designed: HD                | Checked: KV | NER Reg. No. 208 2513                                      | CONSULT | ING | Copyrigi. All rights reserved.   | Project No: 6370  |



| <u> (EY:</u>   |                                    |                 |  |  |  |  |  |
|--|------------------------------------|-----------------|--|--|--|--|--|
|  | EX. STRUCTURES UNDERN              | NEATH TO REMAIN |  |  |  |  |  |
|  | NEW LOAD BEARING WALL              | S UNDERNEATH    |  |  |  |  |  |
| ===  | EX. WALLS UNDERNEATH TO BE REMOVED |                 |  |  |  |  |  |
|  | EX. STRUCTURES ON FLOOR TO REMAIN  |                 |  |  |  |  |  |
| NEW STRUCTURES ON FLOOR  |                                    |                 |  |  |  |  |  |
|  | TIMBER BEAM                        |                 |  |  |  |  |  |
|  | STEEL BEAM                         |                 |  |  |  |  |  |
| ASSUMED DIRECTION OF JOIST (JOIST SIZE TO<br>COMPLY WITH AS 1684.2 AND/ OR<br>MANUFACTURER'S SPAN TABLE) |                                    |                 |  |  |  |  |  |
|  |                                    |                 |  |  |  |  |  |
| IGN LO   | ADS                                |                 |  |  |  |  |  |

1. PERMANENT ACTION: 2. IMPOSED ACTION : - GENERAL AREA - BALCONY AREA

0.5kPa. 1.5kPa 2.0kPa

### METAL ROOF:

1. PERMANENT ACTION: 2. IMPOSED ACTION

0.40kPa 0.25kPa

| SCHEDULE - FIRST FLOOR PLAN |                |                 |  |  |  |  |  |
|-----------------------------|----------------|-----------------|--|--|--|--|--|
| SIZES                       | COMMENT        | MAX. CLEAR SPAN |  |  |  |  |  |
| 2/300x45 hySPAN             |                | 4800            |  |  |  |  |  |
| 2/300x45 hySPAN             |                | 1700            |  |  |  |  |  |
| 2/200x45 hySPAN             |                | 1500            |  |  |  |  |  |
| 2/200x45 hySPAN             |                | 3200            |  |  |  |  |  |
| 2/200x45 hySPAN             |                | 1500            |  |  |  |  |  |
| 2/300x45 hySPAN             |                | 1700            |  |  |  |  |  |
| 2/300x63 hySPAN             |                | 4800            |  |  |  |  |  |
| DOUBLE JOIST J3             |                |                 |  |  |  |  |  |
| HJ300x90 hyJOIST @450 CTS.  |                | 5800            |  |  |  |  |  |
| 2/170x45 hySPAN             |                | 2000            |  |  |  |  |  |
| 2/170x45 hySPAN             |                | 4600            |  |  |  |  |  |
| 2/170x45 hySPAN             |                | 2000            |  |  |  |  |  |
| 2/300x45 hySPAN             |                | 5800            |  |  |  |  |  |
| 2/300x45 hySPAN             |                | 2000            |  |  |  |  |  |
| 2/300x45 hySPAN             |                | 5800            |  |  |  |  |  |
| 300x45 hySPAN               |                | 700             |  |  |  |  |  |
| 2/170x45 hySPAN             |                | 2700            |  |  |  |  |  |
| 2/170x45 hySPAN             |                | 3400            |  |  |  |  |  |
| 190x45 MGP10 @600 CTS.      |                | 4800            |  |  |  |  |  |
| 300PFC                      | + 10THK. PLATE | 4000            |  |  |  |  |  |

MEMBER SIZES ARE MINIMUM ONLY AND CAN BE UPGRADED TO SUIT CONSTRUCTION CONDITIONS. SPANS TO BE CONFIRMED ON SITE BY THE BUILDER. CONSULT ENGINEER IF IN DOUBT.

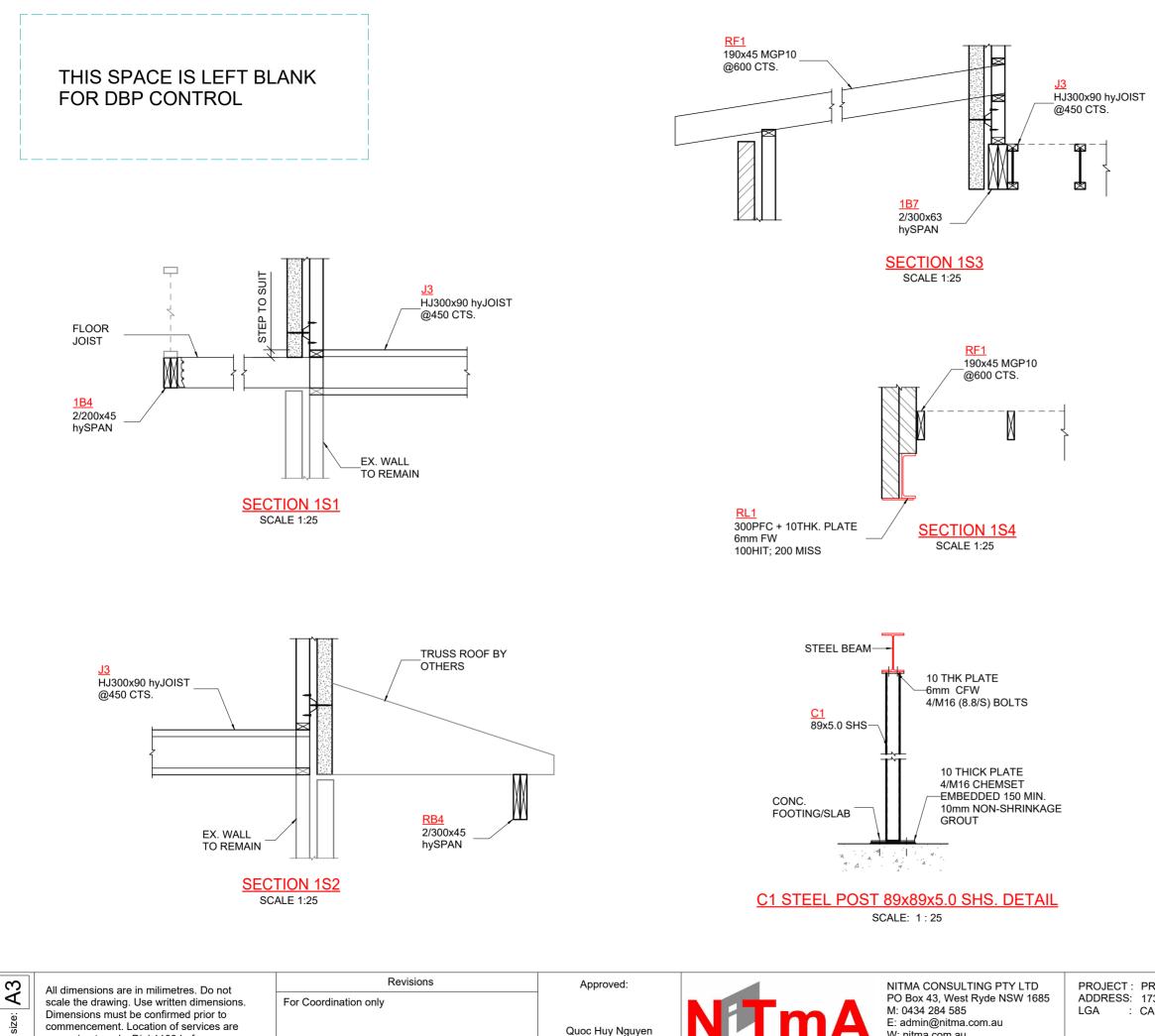
**PROJECT : PROPOSED ADDITION & ALTERATIONS** ADDRESS: 173 BIRDWOOD RD, GEORGES HALL LGA : CANTERBURY-BANKSTOWN COUNCIL

# FIRST FLOOR PLAN

Issue: A Date: 28.05.2024 Drawing No: 1L1

15

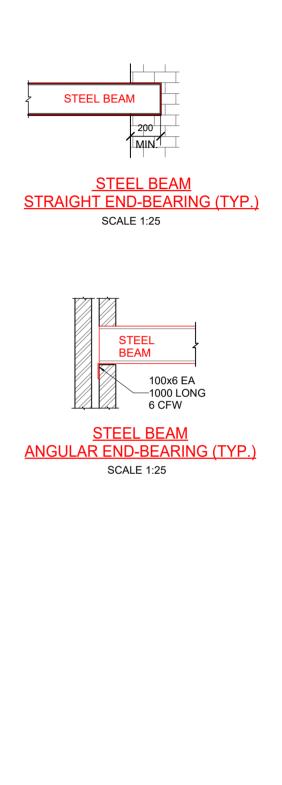
Total no. of sheets



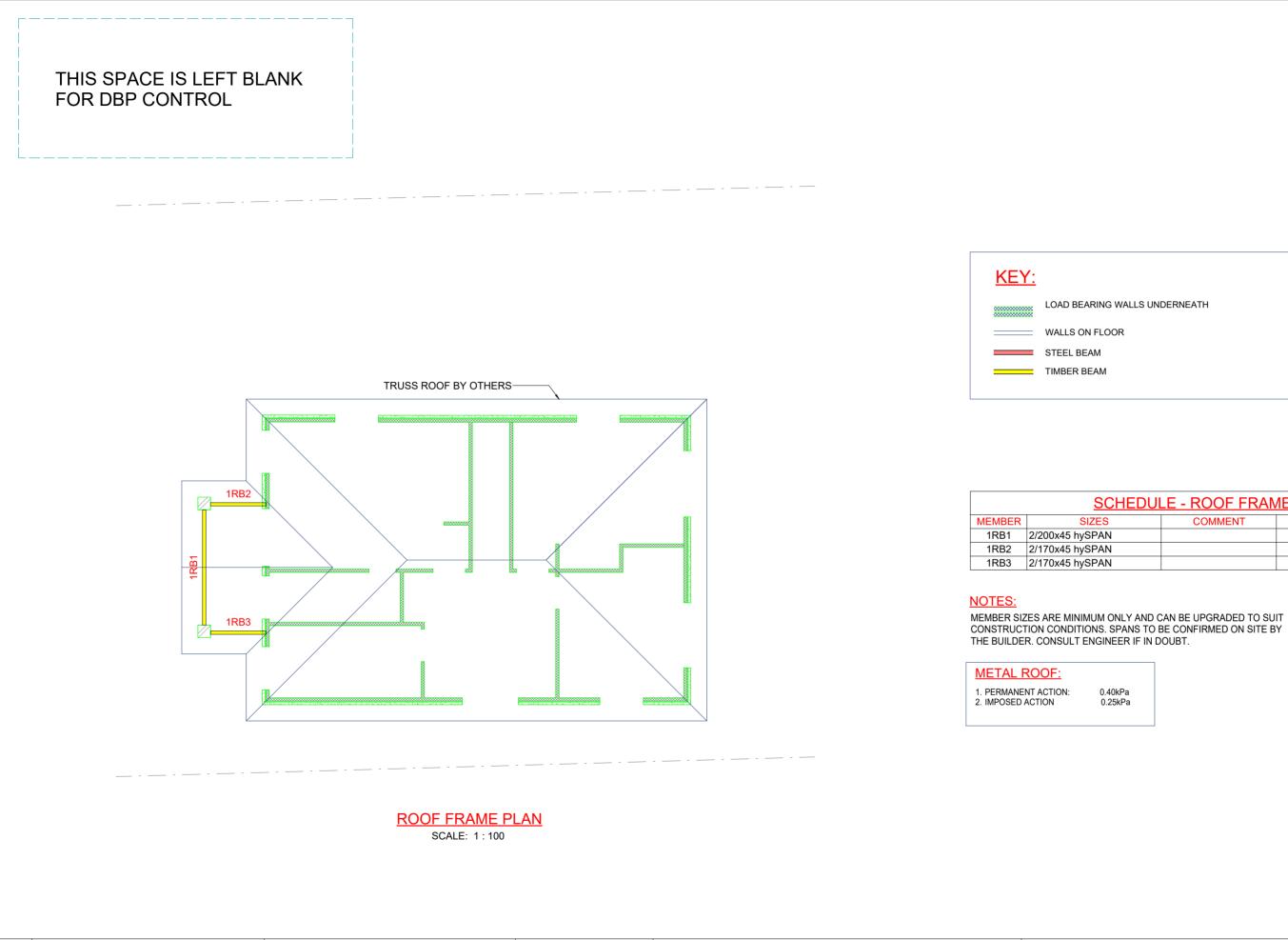
commencement. Location of services are approximate only. Dial 1100 before any excavation or demolition.

aper

| For Coordination only |             | Approved:<br>Quoc Huy Nguyen<br>PhD (Eng). MIEAust, CPEng, |   |   | F |   |   | M  |    | 4  | NITMA CONSULTING PTY LTD<br>PO Box 43, West Ryde NSW 1685<br>M: 0434 284 585<br>E: admin@nitma.com.au<br>W: nitma.com.au<br>© Copyrigt. All rights reserved. | PROJECT :<br>ADDRESS:<br>LGA : |
|-----------------------|-------------|--|---|---|---|---|---|----|----|----|--|--------------------------------|
| Designed: HD          | Checked: KV | NER Reg. No. 208 2513                                      | С | 0 | Ν | S | U | LT | Ir | ۱G | Copyrigi. All rights reserved.   | Project No:                    |



15 **PROPOSED ADDITION & ALTERATIONS** 173 BIRDWOOD RD, GEORGES HALL CANTERBURY-BANKSTOWN COUNCIL Total no. of sheets FIRST FLOOR DETAILS 6370S Issue: A Date: 28.05.2024 Drawing No: 1L2



| size: A3 | All dimensions are in milimetres. Do not<br>scale the drawing. Use written dimensions<br>Dimensions must be confirmed prior to<br>commencement. Location of services are |
|----------|--|
| Paper si | approximate only. Dial 1100 before any excavation or demolition.   |

|  | _                     |             |   | T |     |     |    |     |       |                         |  |                   |                    |
|--|-----------------------|-------------|---|---|-----|-----|----|-----|-------|-------------------------|--|-------------------|--------------------|
| tres. Do not   | Revisions             |             | Approved:                                     |   |     |     |    |     |       | NITM                    | MA CONSULTING PTY LTD  | PROJECT :         | PROPOS             |
| nees. Do not<br>en dimensions.<br>ned prior to<br>f services are<br>before any | For Coordination only |             | Quoc Huy Nguyen<br>PhD (Eng). MIEAust, CPEng, | ľ | J   | 7   | r  | n   | A     | M: 04<br>E: ad<br>W: ni | Box 43, West Ryde NSW 1685<br>434 284 585<br>dmin@nitma.com.au<br>iitma.com.au | ADDRESS:<br>LGA : | 173 BIRI<br>CANTER |
|  | Designed: HD          | Checked: KV | NER Reg. No. 208 2513                         | С | 0 1 | I S | υL | - T | I N C | 3 000                   | opyrigt. All rights reserved.  | Project No:       | 6370S              |

LOAD BEARING WALLS UNDERNEATH

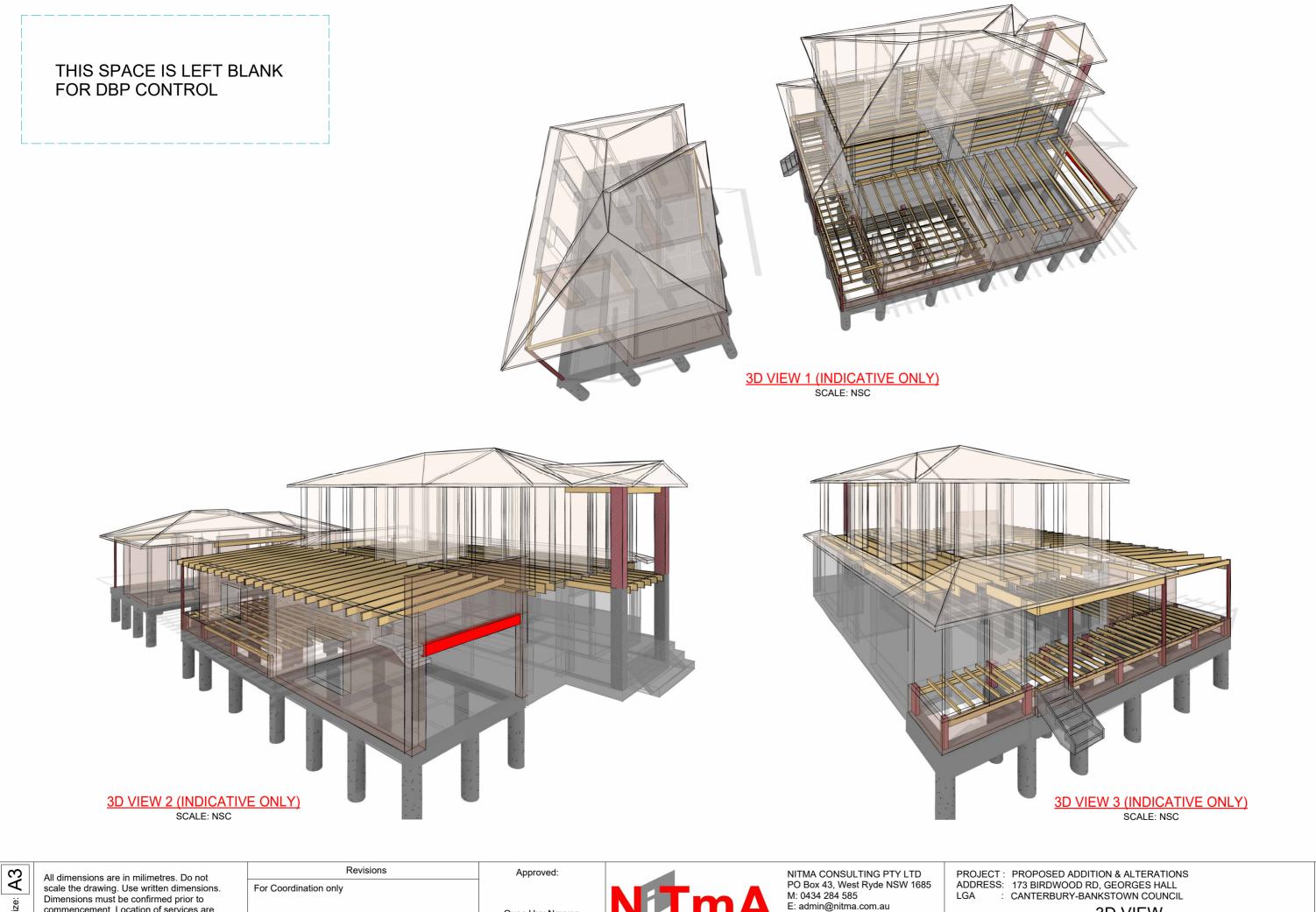
| HEDULE - ROOF FRAME |         |                 |  |  |  |
|---------------------|---------|-----------------|--|--|--|
|                     | COMMENT | MAX. CLEAR SPAN |  |  |  |
|                     |         | 3200            |  |  |  |
|                     |         | 1600            |  |  |  |
|                     |         | 1600            |  |  |  |

| POSED ADDITION & ALTERATIONS                           |
|--|
| BIRDWOOD RD, GEORGES HALL<br>TERBURY-BANKSTOWN COUNCIL |
| ROOF FRAME PLAN  |

| 15                     |
|------------------------|
| Total no.<br>of sheets |

| S | Issue: | А | Date: | 28.05.2024 |
|---|--------|---|-------|------------|
| - |        |   |       |            |

4 Drawing No: RL1



| A3    |  |
|-------|--|
| size: |  |
| aper  |  |

| All dimensions are in milimetres. Do not scale the drawing. Use written dimensions. |
|---|
| Dimensions must be confirmed prior to   |
| commencement. Location of services are  |
| approximate only. Dial 1100 before any  |
| excavation or demolition.   |

|    | Re                    | visions     | Approved:                                     |              | NITMA CONSULTING PTY LTD   | PROJECT : PROPOS                  |
|----|-----------------------|-------------|---|--------------|--|-----------------------------------|
| S. | For Coordination only |             | Quoc Huy Nguyen<br>PhD (Eng). MIEAust, CPEng, | <b>N</b> TmA | PO Box 43, West Ryde NSW 1685<br>M: 0434 284 585<br>E: admin@nitma.com.au<br>W: nitma.com.au | ADDRESS: 173 BIRE<br>LGA : CANTER |
|    | Designed: HD          | Checked: KV | NER Reg. No. 208 2513                         | CONSULTING   | © Copyrigt. All rights reserved.   | Project No: 6370S                 |

**3D VIEW** 

S Issue: A Date: 28.05.2024 Drawing No: 3D1

Total no. **15** of sheets