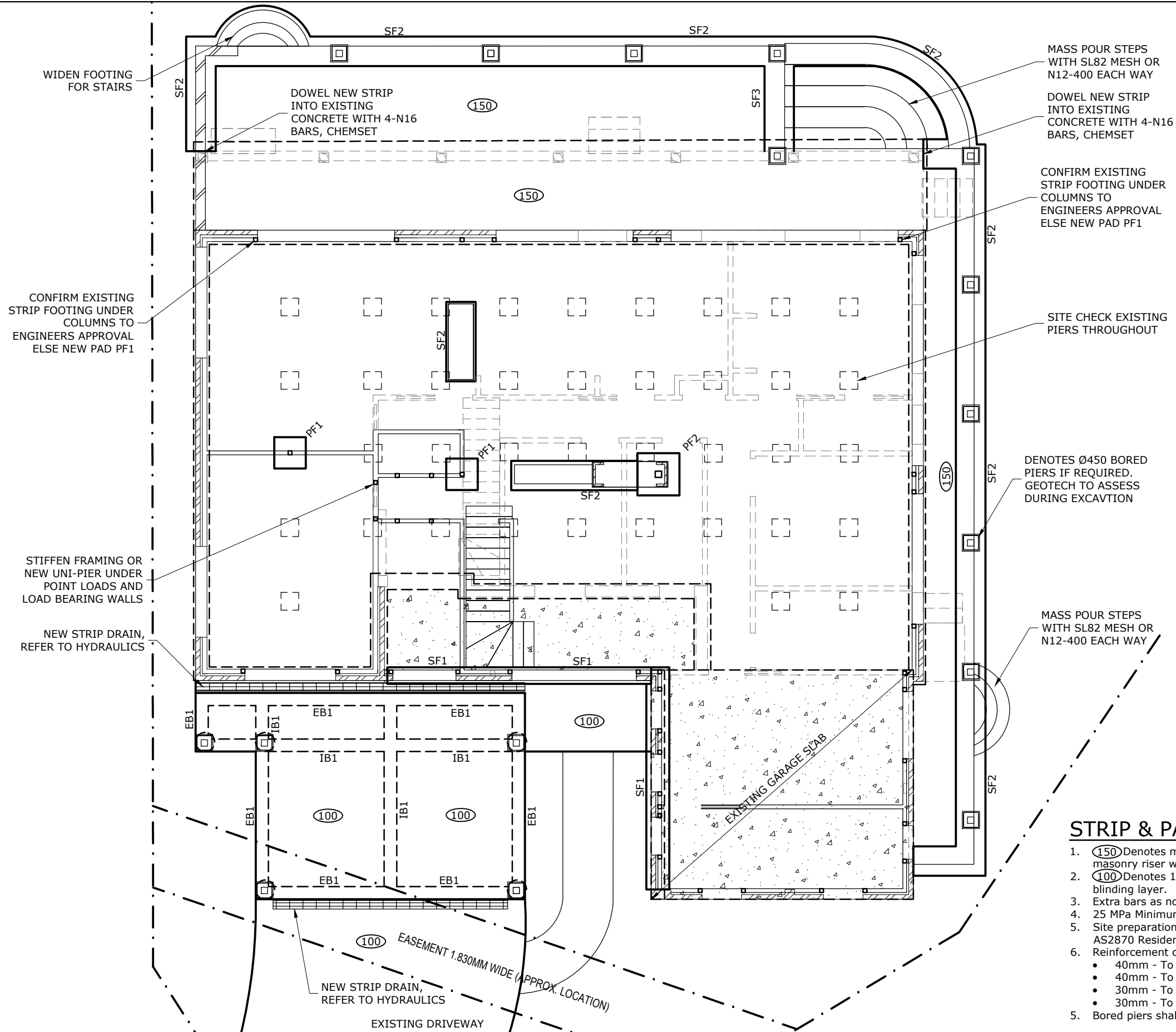


A3 ORIGINAL SIZE



DESIGN CRITERIA:

Site Soil Classification = P
Wind Classification = W33 (N2)
Construction Type = Mixed Construction
Roof Cladding Type = Metal Sheetting
(Note: Masonry shall be articulated in accordance with technical note 61 from the Cement & Concrete Association of Australia)

EXPOSURE CLASSIFICATION:

Interior Surfaces =	A1
Exterior Surfaces=	B2

BORED PIER NOTE:

Bored piers shall be installed if the slab or footings are founded on fill or non-uniform material or the existing residence has been pierced.
Design engineer shall be contacted once excavation is complete to assess the need for piercing.
The bored piers shall be installed to engineers approval.

NEW COLUMN NOTE:

All new columns shall be founded off existing footings to engineer's approval, else new pad footing (450mm SQ x 500mm deep) shall be installed.

FLOOR TILING NOTE:

SL92 mesh shall be installed in place of the
SL82 mesh for tiles areas.

EXISTING FOOTING NOTE:

Existing footing depth shall be confirmed on-site to assess the need for underpinning. No existing footing shall be undermined during excavation.

GEOTECHNICAL NOTE:

The foundation requirements are in accordance with the Geotechnical report completed by Crozier Project 2020-075 dated April 2020. The foundation and bearing material along with the chosen piercing method shall be approved by the geotechnical engineer during excavation.

All footings have been designed to be supported on a bearing material of 100KPa or greater. Foundation material shall be certified by the Geotechnical engineer during excavation.

STRIP & PAD FOOTING PLAN 1:100

1. **(150)** Denotes min 150 thick slab with SL82 mesh top and bottom supported over masonry riser walls. Slip joint over masonry. 32MPa min
2. **(100)** Denotes 100 thick pavement slab with SL82 mesh over firm ground and blinding layer.
3. Extra bars as noted on plan & sections.
4. 25 MPa Minimum concrete strength, typical unless noted otherwise.
5. Site preparation shall be carried out in accordance with the current edition of AS2870 Residential slabs & footings construction code & with the general notes.
6. Reinforcement cover to the ground floor slab shall be as follows:
 - 40mm - To unprotected ground
 - 40mm - To external exposure
 - 30mm - To a vapor barrier in contact with the ground
 - 30mm - To internal exposure
5. Bored piers shall be in accordance with the bored pier note and as shown on plan.

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CLIENT:

HUTCHINSON

PROJECT NAME:

PROPOSED ALTERATIONS
18 YACHTSMANS PARADISE
NEWPORT NSW 2106

DRAWING TITLE:

Strip & Pad Footing Plan

SCALE:

1:100

PROJECT:
19.592

DATE:

30 Apr 2020

DRAWING:
S2

DESIGN/APPROVED:

CB

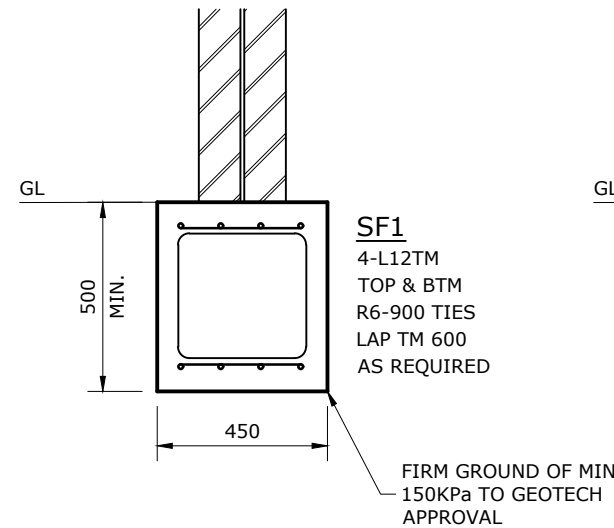
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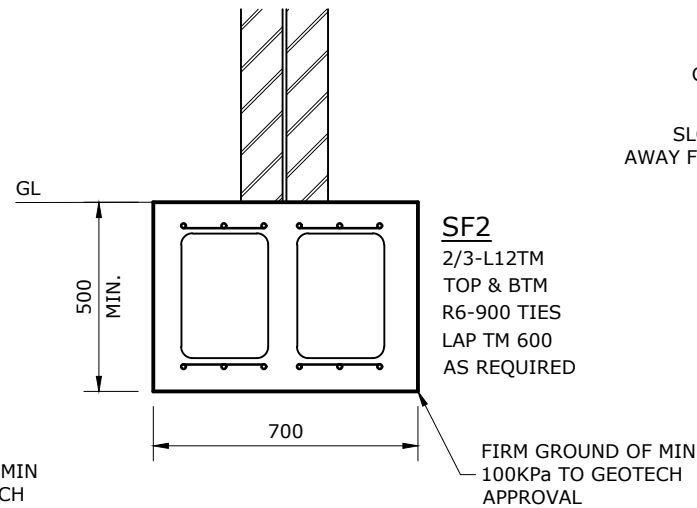
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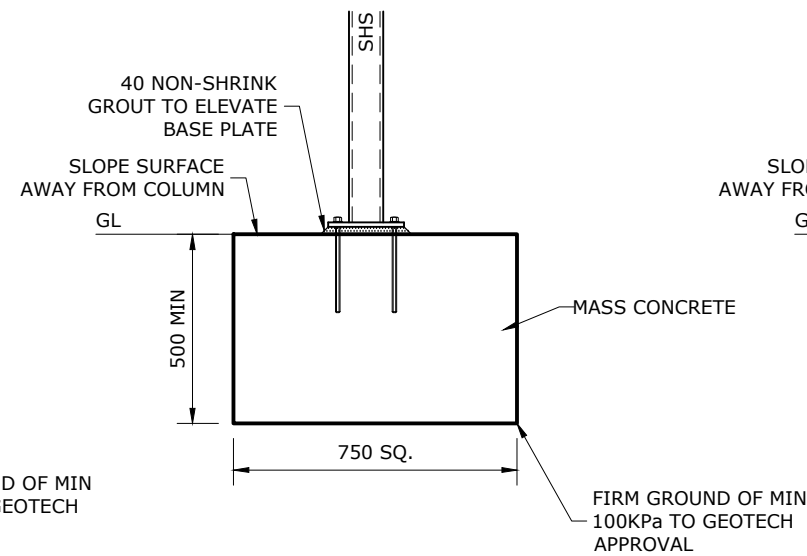
A3 ORIGINAL SIZE



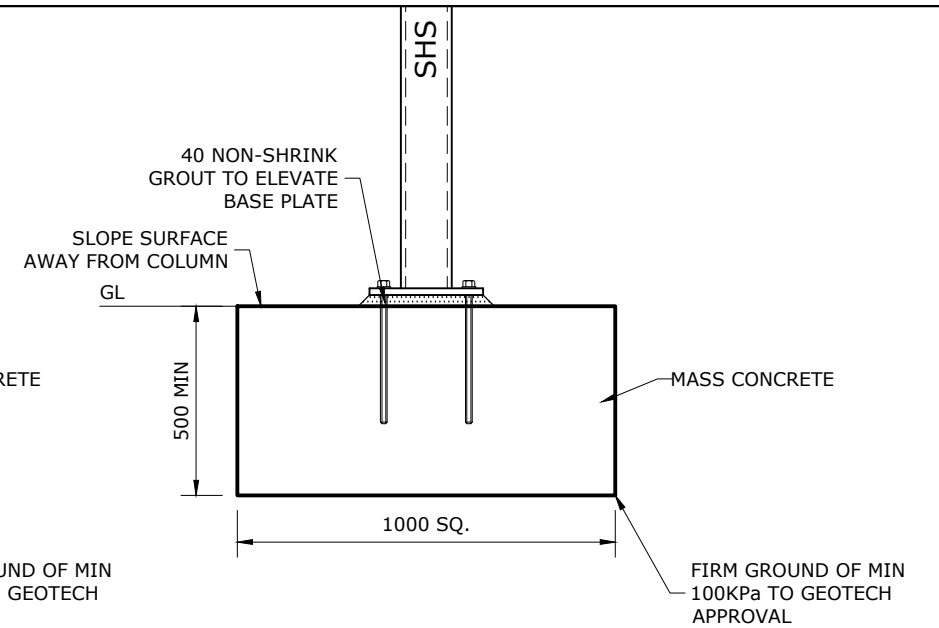
STRIP FOOTING 'SF1' DETAIL 1:20



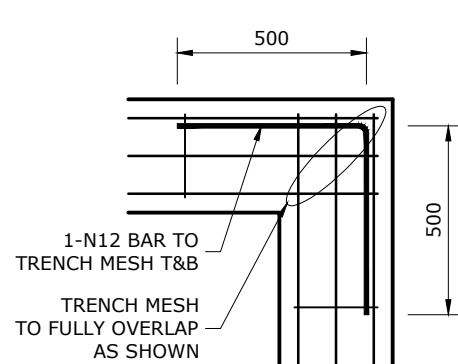
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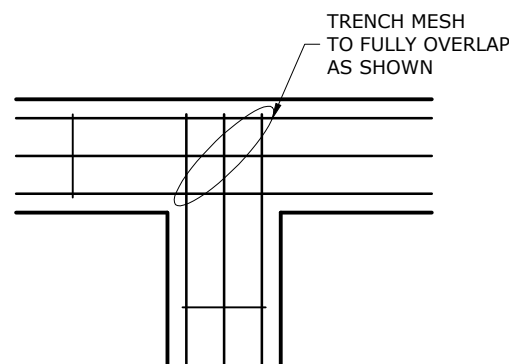
PAD FOOTING 'PF1' DETAIL 1:20



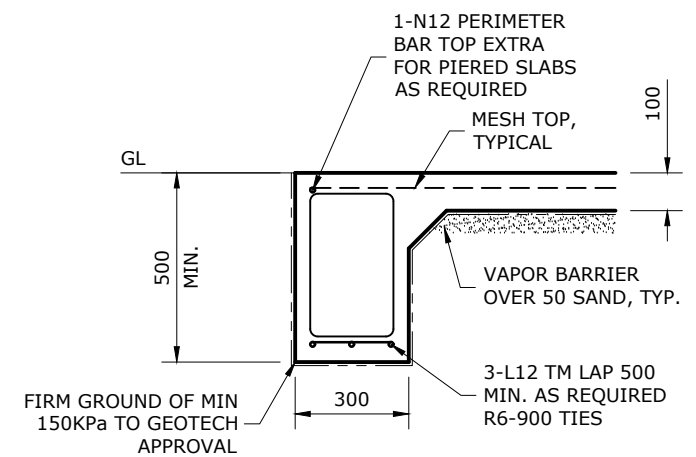
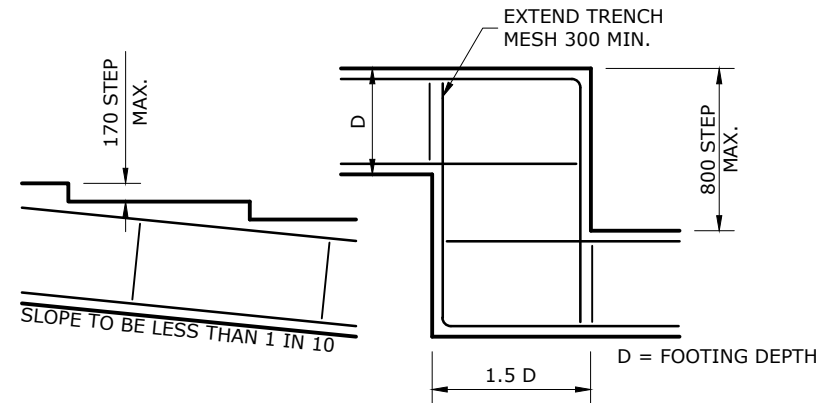
PAD FOOTING 'PF2' DETAIL 1:20



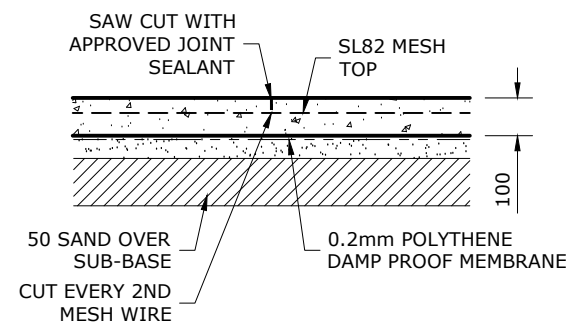
FOOTING CORNER DETAIL 1:20



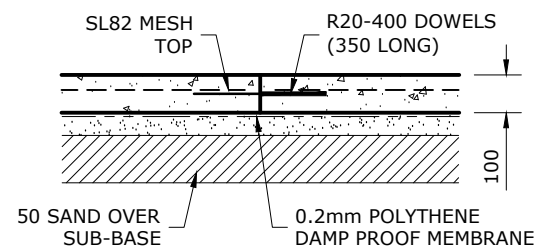
FOOTING STEP DETAIL 1:20



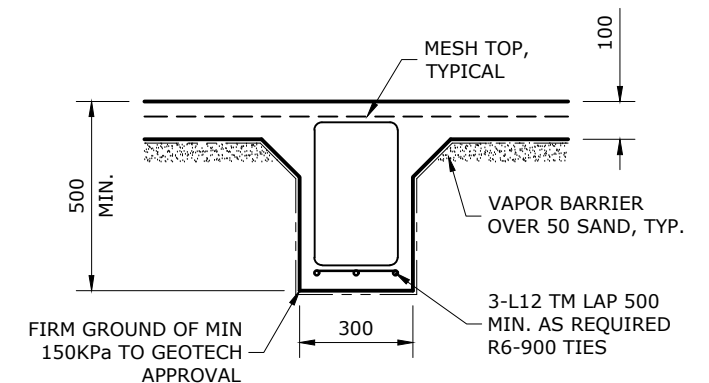
EDGE BEAM DETAIL 'EB1' 1:20



SAWN JOINT 'SJ' DETAIL 1:20
MAXIMUM 3600mm c/c SPACING
FOR PAVING SLABS ONLY



CONSTRUCTION JOINT 'CJ' DETAIL 1:20
MAXIMUM 10800mm c/c SPACING
FOR PAVING SLABS ONLY



INTERNAL BEAM DETAIL 'IB1' 1:20

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CLIENT:
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PROJECT NAME:
**PROPOSED ALTERATIONS
18 YACHTSMANS PARADISE
NEWPORT NSW 2106**

DRAWING TITLE:
Strip & Pad Footing Details

SCALE:
1:20

DATE:
30 Apr 2020

DESIGN/APPROVED:
CB

REV:
C

PROJECT:
19.592

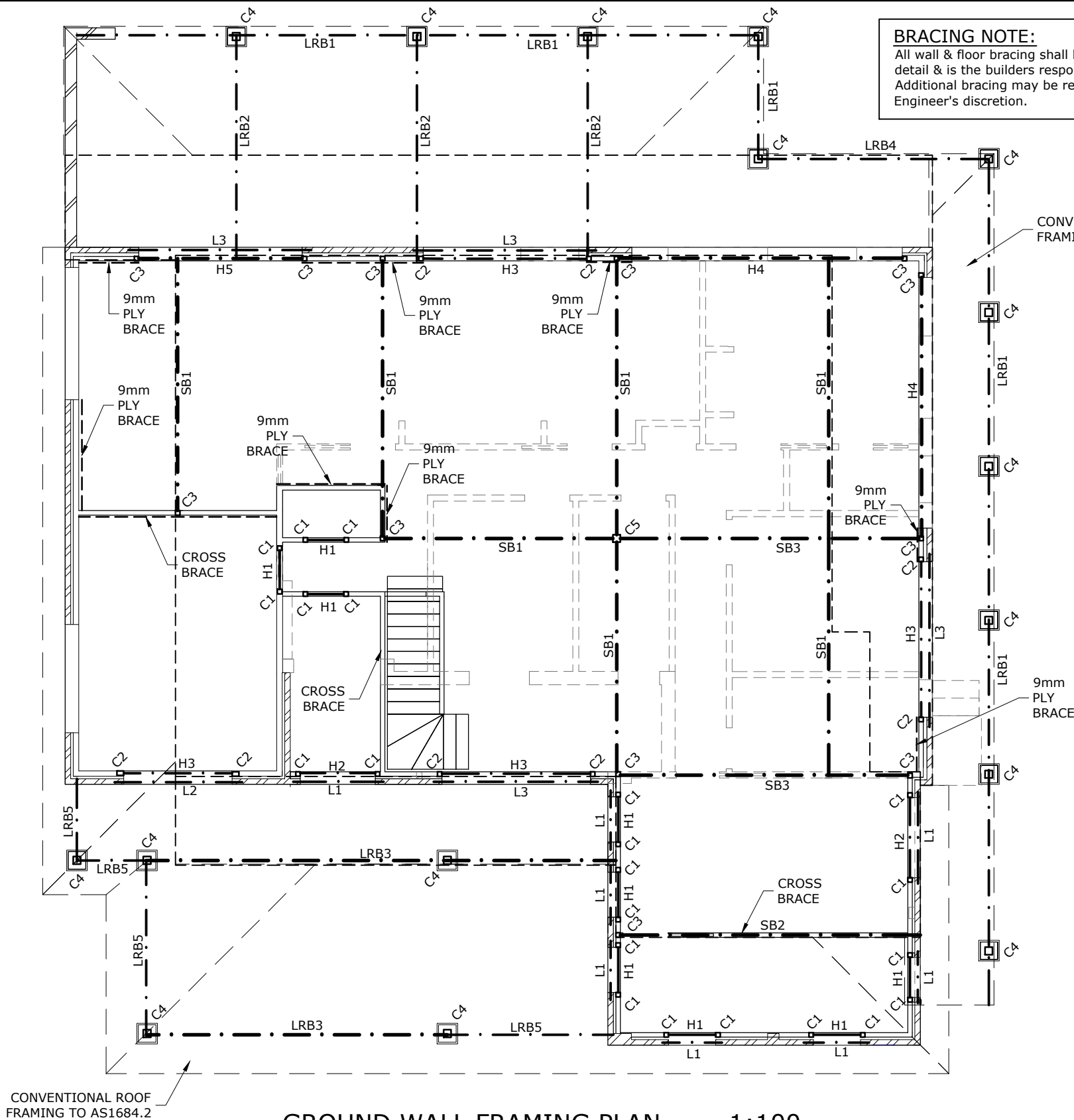
DRAWING:
S3

SIGNED:

REV.	APP.	AMENDMENT DESCRIPTION	DATE
C		GENERAL REVISIONS	02.10.20

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A3 ORIGINAL SIZE



GROUND WALL FRAMING PLAN 1:100

1. Minimum 150mm end bearing for all lintels supporting masonry unless noted otherwise.
2. Block beams down to brickwork walls under at supports unless noted otherwise.
3. Packing to be provided over all existing and new ground floor walls.
4. Wall supporting first floor shall have a double top plate.
5. Balustrades, stairs, awnings, barriers and handrails to be by others to Australian Standards.

BRACING NOTE:

All wall & floor bracing shall be to suppliers detail & is the builders responsibility. Additional bracing may be required to Engineer's discretion.

DURABILITY NOTE:

All LVL timbers shall be protected from the environment. Steel beams and columns shall be protected from corrosion using paint protection or galvanising in accordance with Australian Standards AS 2312 to meet a minimum design life of 50 years. If maintenance of this system is required this must be carried out by the owner. Corrosion protection systems shall be maintained by others for the design life of 50 years. The occupant should be made aware of the corrosion protection life and maintain accordingly. For example most paint protection systems can be made to last 15 years without maintenance. They will require maintenance to meet the 50 year design life that is not the responsibility of the engineer. If steel beams and posts are designated to be galvanised end plates, cap plates and base plates shall also be galvanised. All nuts and bolts shall be galvanised or marine grade stainless steel.

TIMBER FRAMING NOTE:

All timber framing, connections, fixings, notches, etc shall be in installed in accordance with AS1684-2010: Residential Timber Framed Construction (non-cyclonic areas) and the current edition of the Building Code of Australia. Double LVL (of same depth and width as floor joists) shall be installed under all load bearing walls & columns over, UNO. Floor joist centers shall be closed up to 300mm max. in tiled floor areas.

STEEL CONNECTION NOTE:

All structural steel bolt holes shall not exceed a diameter 2mm greater than that of the given bolt diameter. All column base plate bolt holes shall not exceed a diameter 6mm greater than that of the given bolt diameter. All base plate bolt holes exceeding 3mm but not more than 6mm greater in diameter than the given bolt will require a 4mm thick base plate washer to be installed. Elongated or protruded bolt holes are not approved. The minimum pitch, or the distance between the centres of the bolt holes, in any given plate or cleat shall not be less than 2.5 times the diameter of the given bolt. The minimum edge distance from the centre of the bolt hole to the edge of the given plate or cleat for all standard bolt holes shall not be less than 1.5 times the diameter of the given bolt or 30mm, whichever is greater.

PROPPING NOTE:

Propping and stability of the existing structure during demolition & construction is the responsibility of the builder. Care shall be taken to ensure the existing structure is stable prior to & during demolition.

EXISTING FRAMING:

All proposed framing members are based on assumptions and should be confirmed during demolition once structure is exposed for visible inspection.

STRUCTURAL STEEL & TIMBER FRAMING SCHEDULE

MARK	TYPE	SECTION SIZE	COMMENT
SB1	Beam	310 UB 32.0	300 Plus
SB2	Beam	250 PFC 35.5 (Over Stud Wall)	300 Plus
SB3	Beam	310 UB 46.2	300 Plus
H1	Header	2 / 90 x 45 MGP10	Seasoned
H2	Header	2 / 140 x 45 MGP10	Seasoned
H3	Header	2 / 240 x 45 LVL	Hyspan
H4	Header	300 PFC 40.1 + 200 x 10 Plate Galvanised	Hyspan
H5	Header	300 PFC 40.1	Hyspan
LRB1	Roof Beam	195 x 65 GL10	Glulam
LRB2	Roof Beam	295 x 85 GL13	Glulam
LRB3	Roof Beam	250 PFC 35.5 Galvanised	300 Plus
LRB4	Roof Beam	180 PFC 20.9 Galvanised	300 Plus
LRB5	Roof Beam	230 x 65 GL13	300 Plus
L1	Lintel	100 x 100 x 6 Galintel	Galintel
L2	Lintel	100 x 100 x 10 EA Gal	300 Plus
L3	Lintel	150 x 100 x 10 UA Gal	300 Plus
C1	Column	Double Stud	Seasoned
C2	Column	Triple Stud	Seasoned
C3	Column	100 x 100 x 6.0 SHS	C350L0
C4	Column	200 x 200 F27	Hardwood
C5	Column	150 x 150 x 6.0 SHS	C350L0

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CLIENT:

HUTCHINSON

PROJECT NAME:

**PROPOSED ALTERATIONS
18 YACHTSMANS PARADISE
NEWPORT NSW 2106**

DRAWING TITLE:

Ground Wall Framing Plan

SCALE:

1:100

PROJECT:

19.592

DATE:

30 Apr 2020

DRAWING:

S4

DESIGN/APPROVED:

CB

REV:

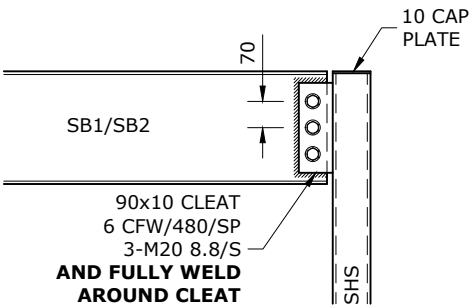
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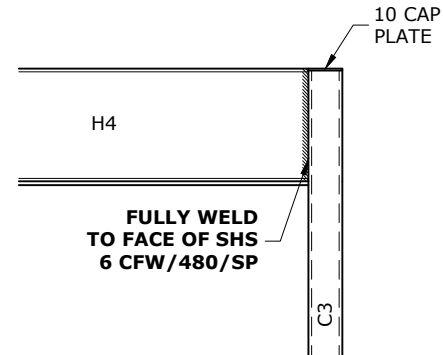
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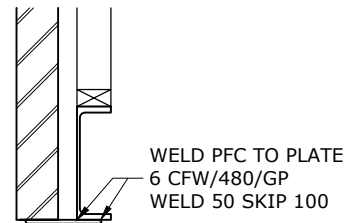
A3 ORIGINAL SIZE



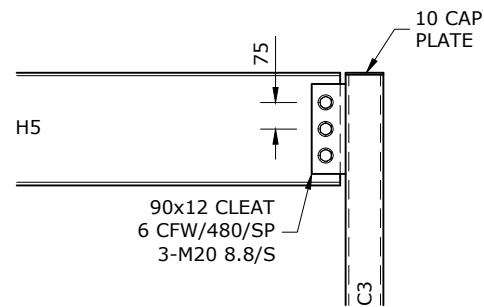
310UB TO SHS (PORTAL) CONNECTION 1:20



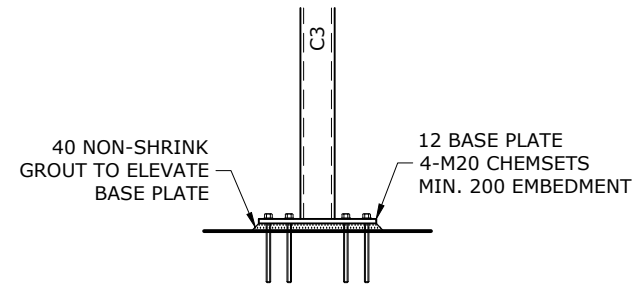
300PFC TO SHS (PORTAL) CONNECTION 1:20



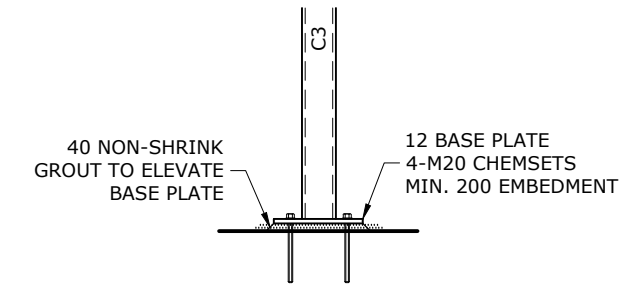
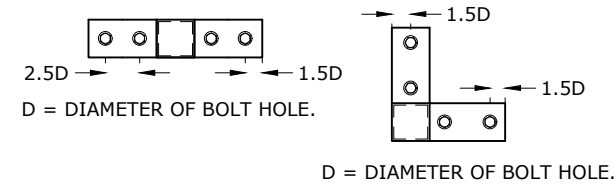
300 PFC + 200x10 PLATE DETAIL 1:20



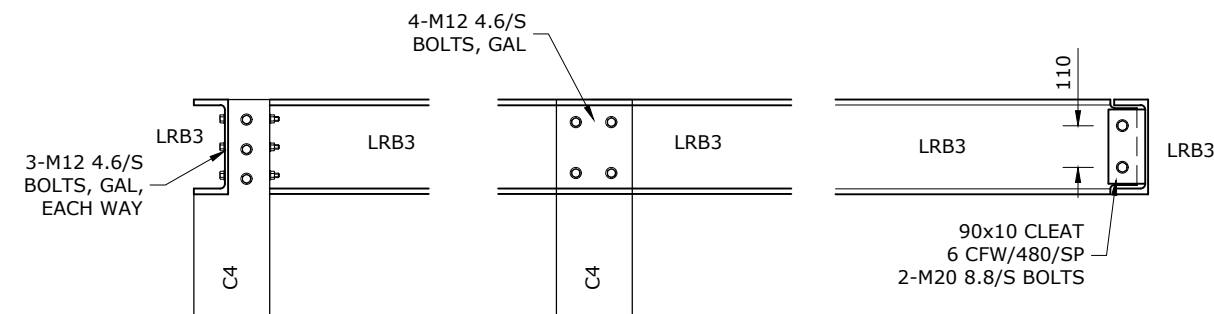
H5 TO SHS CONNECTION 1:20



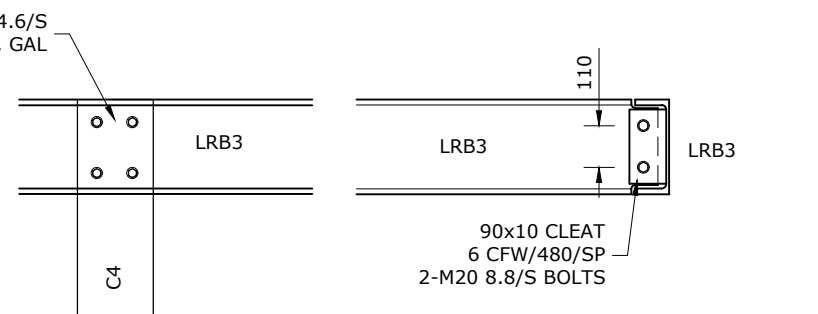
SHS C3 BASE DETAIL (EXTERNAL) 1:20



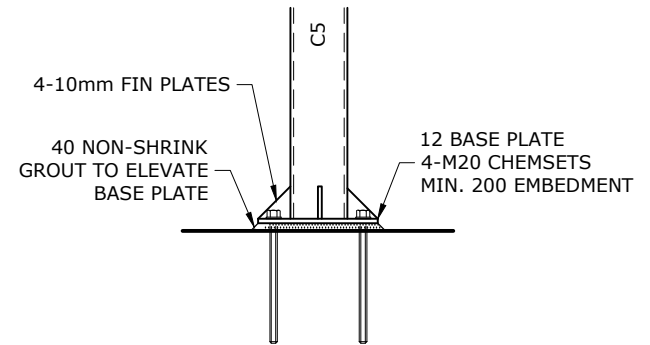
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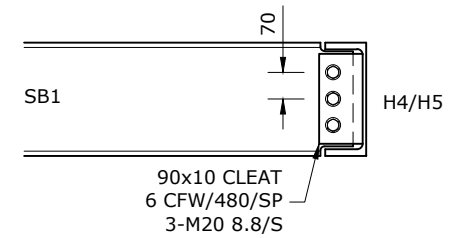
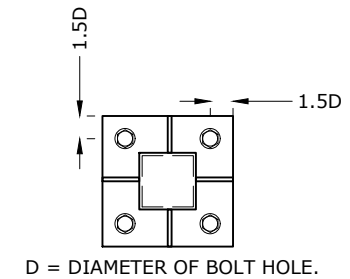
250PFC TO C4 CONNECTION 1:20



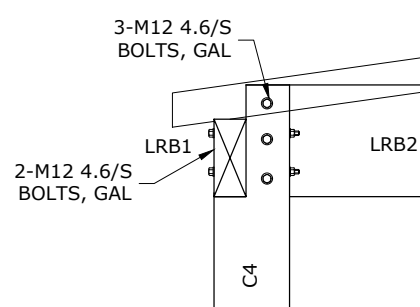
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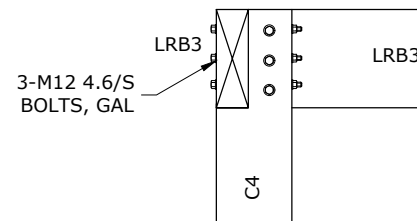
SHS C5 BASE DETAIL 1:20



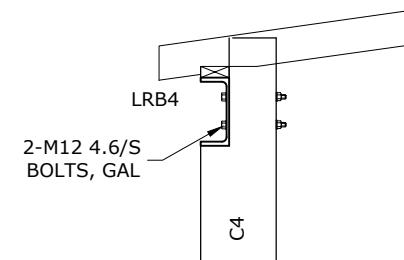
310UB TO 300PFC CONNECTION 1:20



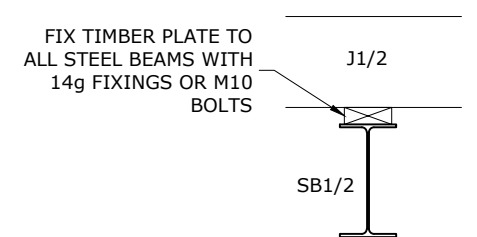
LRB1/2 TO C4 CONNECTION 1:20



LRB3 TO C4 CONNECTION 1:20



LRB4 TO C4 CONNECTION 1:20



JOIST OVER STEEL BEARER 1:20

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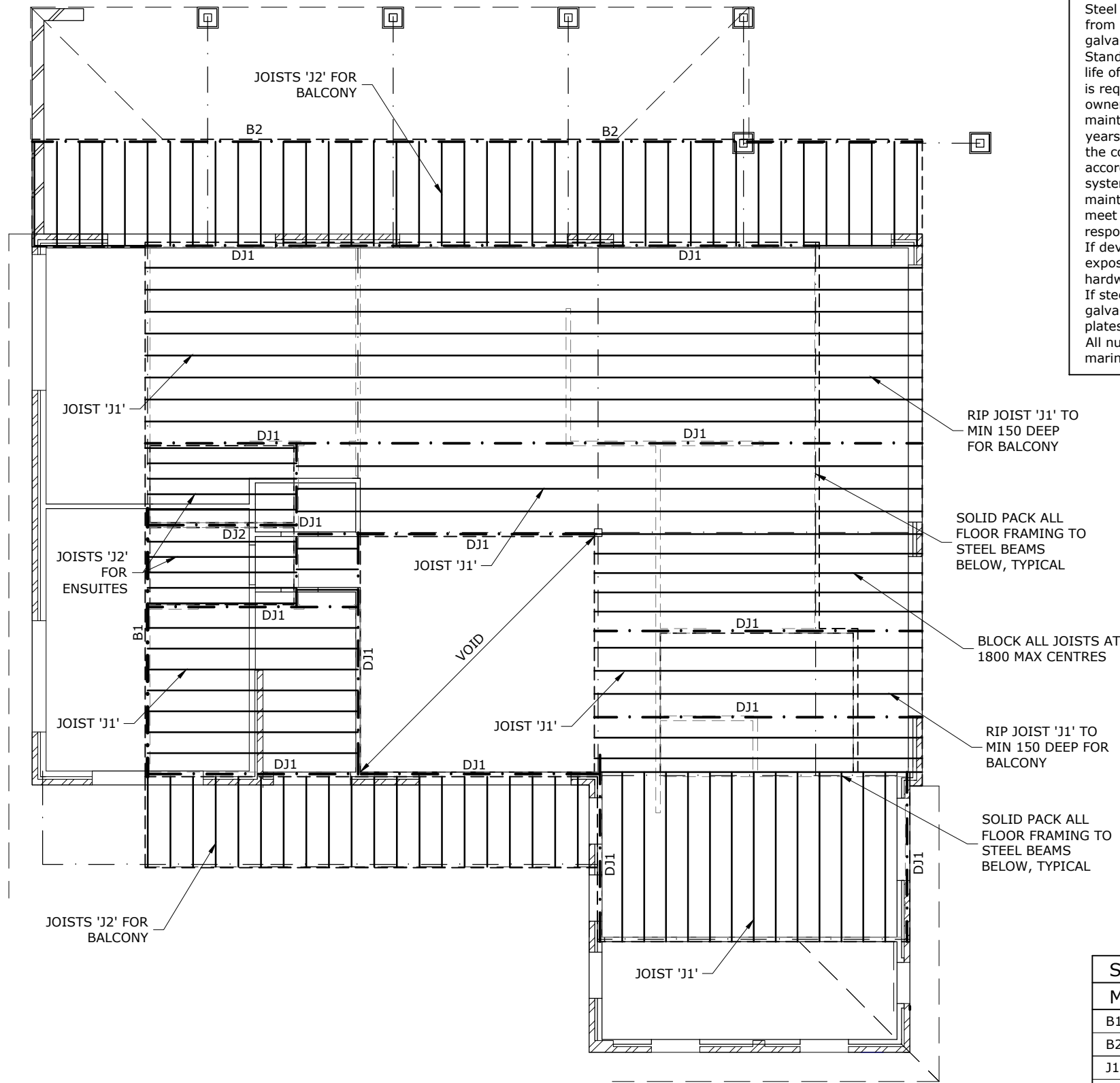
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CLIENT:
HUTCHINSON

PROJECT NAME:
**PROPOSED ALTERATIONS
18 YACHTSMANS PARADISE
NEWPORT NSW 2106**

DRAWING TITLE:
Structural Framing Details

SCALE: 1:20	DATE: 30 Apr 2020	DESIGN/APPROVED: CB	REV: B
PROJECT: 19.592	DRAWING: S5	SIGNED:	



DURABILITY NOTE:

All LVL timbers shall be protected from the environment. Steel beams and columns shall be protected from corrosion using paint protection or galvanising in accordance with Australian Standards AS 2312 to meet a minimum design life of 50 years. If maintenance of this system is required this must be carried out by the owner. Corrosion protection systems shall be maintained by others for the design life of 50 years. The occupant should be made aware of the corrosion protection life and maintain accordingly. For example most paint protection systems can be made to last 15 years without maintenance. They will require maintenance to meet the 50 year design life that is not the responsibility of the engineer. If development is in a bushfire zone all exposed timber members shall be F17 grade hardwood. If steel beams and posts are designated to be galvanised end plates, cap plates and base plates shall also be galvanised. All nuts and bolts shall be galvanised or marine grade stainless steel.

TIMBER FRAMED BALCONIES:

Fibre Cement Sheeting shall be min. 15mm thick and screwed into floor joists. Water proof membrane shall be installed to all tiled areas by others. Flashing & set-downs to BCA requirements.

TIMBER FRAMING NOTE:

All timber framing, connections, fixings, notches, etc shall be installed in accordance with AS1684-2010: Residential Timber Framed Construction (non-cyclonic areas) and the current edition of the Building Code of Australia. Double LVL (of same depth and width as floor joists) shall be installed under all load bearing walls & columns over, UNO. Floor joist centers shall be closed up to 300mm max. in tiled floor areas.

BRACING NOTE:

All wall & floor bracing shall be to suppliers detail & is the builders responsibility. Additional bracing may be required to Engineer's discretion.

FIRST FLOOR FRAMING PLAN 1:100

1. Minimum 150mm end bearing for all lintels supporting masonry unless noted otherwise.
2. Block beams down to brickwork walls under at supports unless noted otherwise.
3. Wet areas to have minimum 15mm CFC floor sheeting typical.
4. Packing to be provided over all existing ground floor walls.
5. Blocking shall be provided between joists at maximum 1.8m centres and at ends of any cantilevered joists.
6. Floor sheeting shall be fixed to joists at maximum 300 crs along each joists.
7. Step downs to BCA requirements.
8. Balustrades, stairs, awnings, barriers and handrails to be by others to Australian Standards.

STRUCTURAL STEEL & TIMBER FRAMING SCHEDULE

MARK	TYPE	SECTION SIZE	COMMENT
B1	Beam	250 PFC 35.5	300 Plus
B2	Beam	150 PFC 17.7	300 Plus
J1	Floor Joist	240 x 45 LVL @ 450 c/c	Hyspan
J2	Floor Joist	150 x 45 LVL @ 450 c/c	Hyspan
DJ1	Double J1	2 / 240 x 45 LVL	Hyspan
DJ2	Double J2	2 / 150 x 45 LVL	Hyspan

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CLIENT:

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PROJECT NAME:

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18 YACHTSMANS PARADISE
NEWPORT NSW 2106**

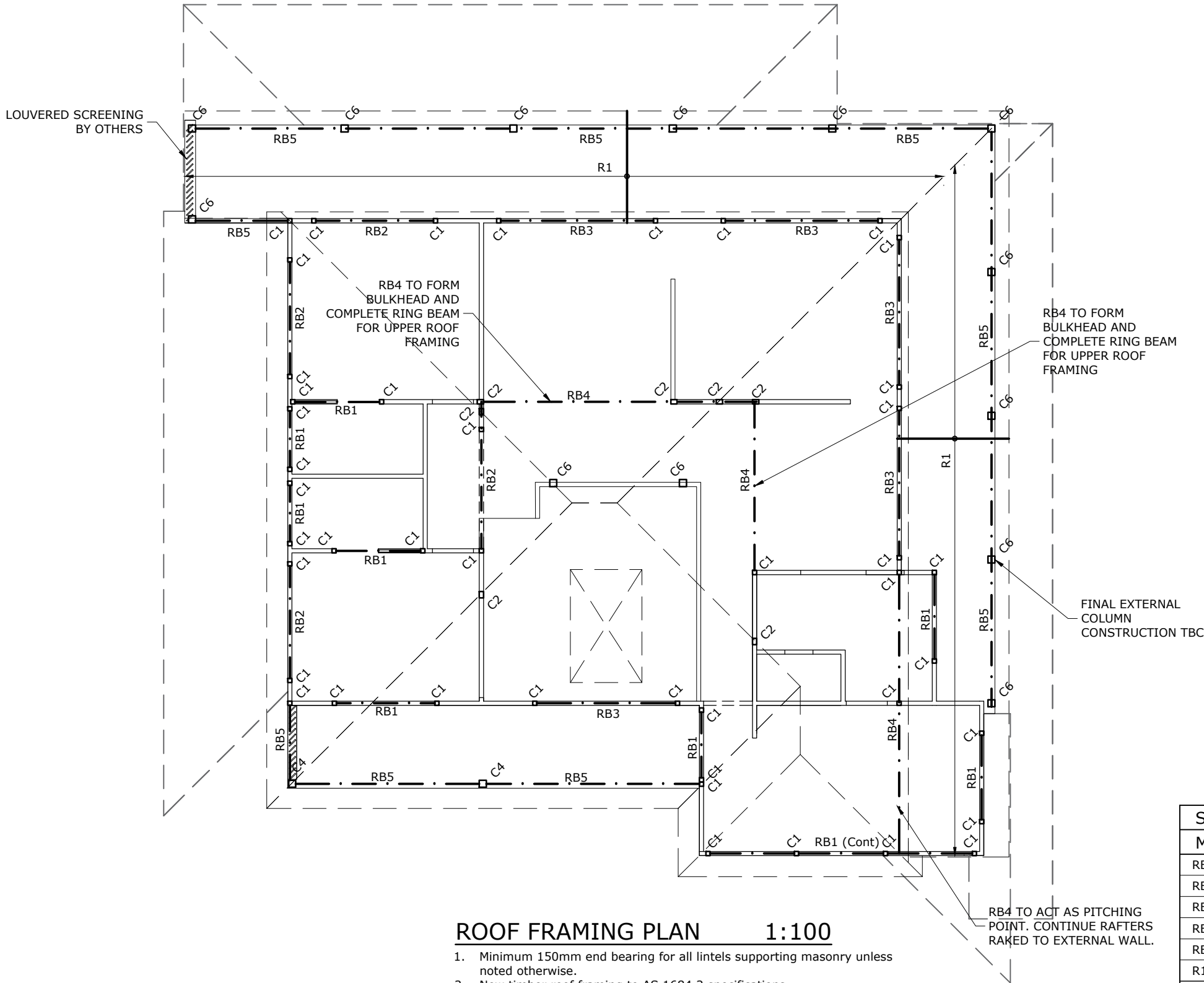
DRAWING TITLE:

First Floor Framing Plan

SCALE:	DATE:	DESIGN/APPROVED:	REV:
1:100	30 Apr 2020	CB	B
PROJECT:	DRAWING:	SIGNED:	
19.592	S6		

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A3 ORIGINAL SIZE



ROOF FRAMING PLAN 1:100

1. Minimum 150mm end bearing for all lintels supporting masonry unless noted otherwise.
2. New timber roof framing to AS 1684.2 specifications.
3. Fix rafters down to top plates and beams with triple grips.
4. Battens and roof sheeting by others.
5. Roof trusses shall be to manufacturer's specifications.
6. Balustrades, stairs, awnings, barriers and handrails to be by others to Australian Standards.

TIMBER FRAMING NOTE:

All timber framing, connections, fixings, notches, etc shall be in accordance with AS1684-2010: Residential Timber Framed Construction (non-cyclonic areas) and the current edition of the Building Code of Australia.
Double LVL (of same depth and width as floor joists) shall be installed under all load bearing walls & columns over, UNO. Floor joist centers shall be closed up to 300mm max. in tiled floor areas.

BRACING NOTE:

All wall & floor bracing shall be to suppliers detail & is the builders responsibility. Additional bracing may be required to Engineer's discretion.

ROOF BRACING NOTE:

Roof shall be fully braced using Pryda Speed Brace fitted to manufacturers specifications. Additional bracing may be required to Engineer's discretion.

DURABILITY NOTE:

All LVL timbers shall be protected from the environment.
Steel beams and columns shall be protected from corrosion using paint protection or galvanising in accordance with Australian Standards AS 2312 to meet a minimum design life of 50 years. If maintenance of this system is required this must be carried out by the owner. Corrosion protection systems shall be maintained by others for the design life of 50 years. The occupant should be made aware of the corrosion protection life and maintain accordingly. For example most paint protection systems can be made to last 15 years without maintenance. They will require maintenance to meet the 50 year design life that is not the responsibility of the engineer.
If development is in a bushfire zone all exposed timber members shall be F17 grade hardwood.
If steel beams and posts are designated to be galvanised end plates, cap plates and base plates shall also be galvanised.
All nuts and bolts shall be galvanised or marine grade stainless steel.

STRUCTURAL STEEL & TIMBER FRAMING SCHEDULE

MARK	TYPE	SECTION SIZE	COMMENT
RB1	Roof Beam	2 / 140 x 45 MGP10	Seasoned
RB2	Roof Beam	2 / 190 x 45 MGP10	Seasoned
RB3	Roof Beam	2 / 240 x 45 MGP10	Seasoned
RB4	Roof Beam	2 / 200 x 45 LVL (Continuous)	Hyspan
RB5	Roof Beam	165 x 65 GL8	Glulam
R1	Rafter	90 x 45 MGP10 @ 600 c/c	Treated
C1	Column	Double Stud	Seasoned
C2	Column	Triple Stud	Seasoned
C6	Column	150 x 150 F27	Hardwood

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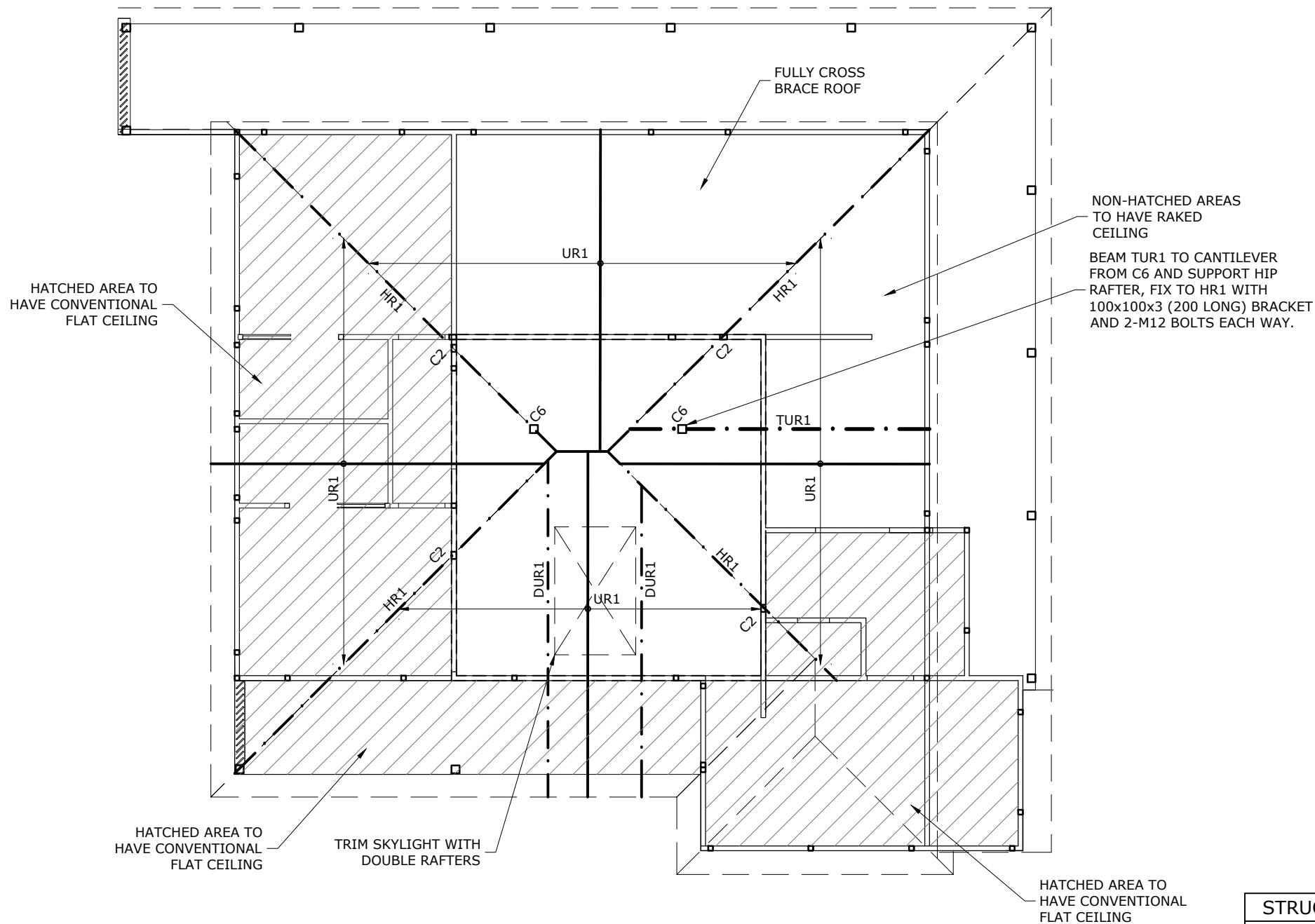
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**PROPOSED ALTERATIONS
18 YACHTSMANS PARADISE
NEWPORT NSW 2106**

DRAWING TITLE:
Roof Framing Plan

SCALE: 1:100	DATE: 30 Apr 2020	DESIGN/APPROVED: CB	REV: B
PROJECT: 19.592	DRAWING: S7	SIGNED:	

DO NOT SCALE FROM DRAWINGS - USE ONLY FIGURED DIMENSIONS

A3 ORIGINAL SIZE



UPPER ROOF FRAMING PLAN 1:100

1. New timber roof framing to AS 1684.2 specifications.
2. Fix rafters down to top plates and beams with triple grips.
3. Battens and roof sheeting by others.
4. Balustrades, stairs, awnings, barriers and handrails to be by others to Australian Standards.

TIMBER FRAMING NOTE:

All timber framing, connections, fixings, notches, etc shall be installed in accordance with AS1684-2010: Residential Timber Framed Construction (non-cyclonic areas) and the current edition of the Building Code of Australia.
Double LVL (of same depth and width as floor joists) shall be installed under all load bearing walls & columns over, UNO. Floor joist centers shall be closed up to 300mm max. in tiled floor areas.

BRACING NOTE:

All wall & floor bracing shall be to suppliers detail & is the builders responsibility. Additional bracing may be required to Engineer's discretion.

ROOF BRACING NOTE:

Roof shall be fully braced using Pryda Speed Brace fitted to manufacturers specifications. Additional bracing may be required to Engineer's discretion.

DURABILITY NOTE:

All LVL timbers shall be protected from the environment.
Steel beams and columns shall be protected from corrosion using paint protection or galvanising in accordance with Australian Standards AS 2312 to meet a minimum design life of 50 years. If maintenance of this system is required this must be carried out by the owner. Corrosion protection systems shall be maintained by others for the design life of 50 years. The occupant should be made aware of the corrosion protection life and maintain accordingly. For example most paint protection systems can be made to last 15 years without maintenance. They will require maintenance to meet the 50 year design life that is not the responsibility of the engineer.
If development is in a bushfire zone all exposed timber members shall be F17 grade hardwood.
If steel beams and posts are designated to be galvanised end plates, cap plates and base plates shall also be galvanised.
All nuts and bolts shall be galvanised or marine grade stainless steel.

STRUCTURAL STEEL & TIMBER FRAMING SCHEDULE

MARK	TYPE	SECTION SIZE	COMMENT
HR1	Hip Rafter	2 / 240 x 45 LVL	Hyspan
UR1	Rafter	200 x 45 LVL @ 600 c/c	Hyspan
DUR1	Double UR1	2 / 200 x 45 LVL	Hyspan
TUR1	Triple UR1	3 / 200 x 45 LVL	Hyspan
C1	Column	Double Stud	Seasoned
C2	Column	Triple Stud	Seasoned
C6	Column	150 x 150 F27	Hardwood

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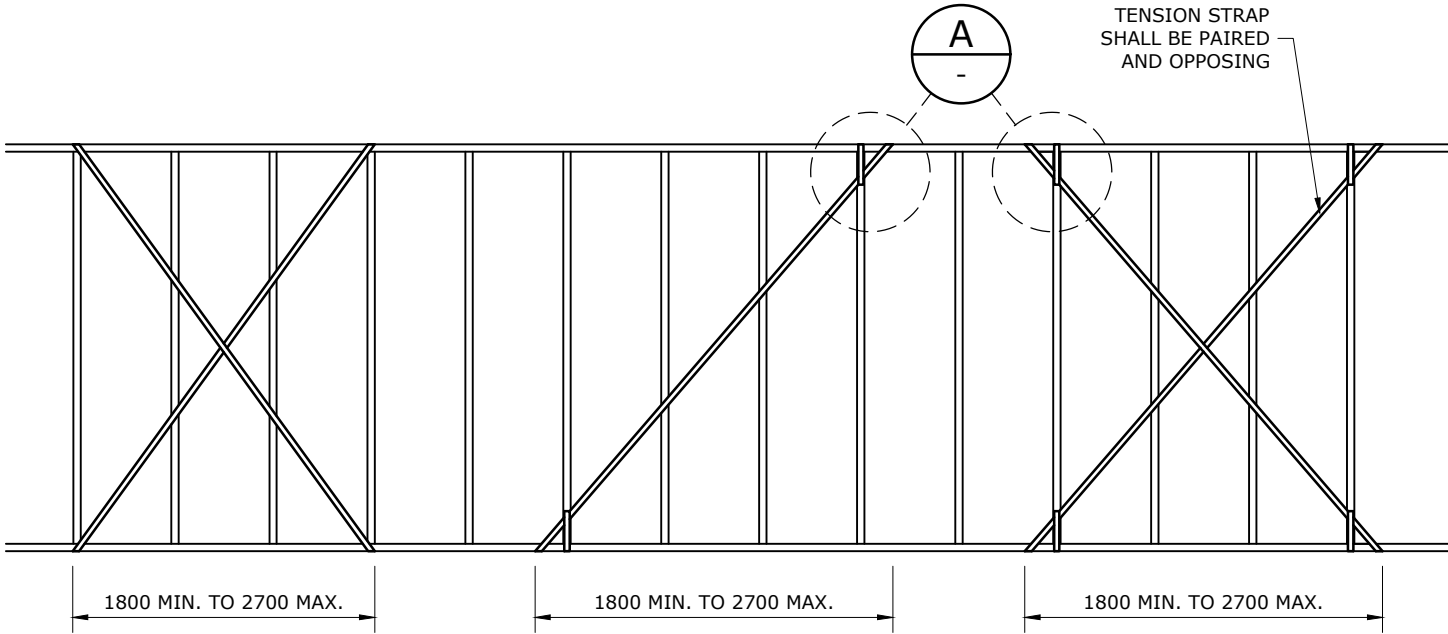
DRAWING TITLE:
Upper Roof Framing Plan

SCALE: 1:100	DATE: 30 Apr 2020	DESIGN/APPROVED: CB	REV: A
PROJECT: 19.592	DRAWING: S8	SIGNED:	

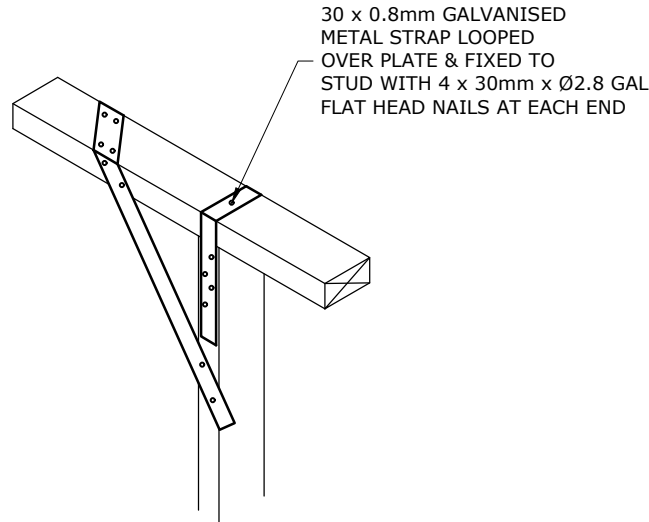
A		RELEASED FOR CONSTRUCTION	16.06.20
REV.	APP.	AMENDMENT DESCRIPTION	DATE

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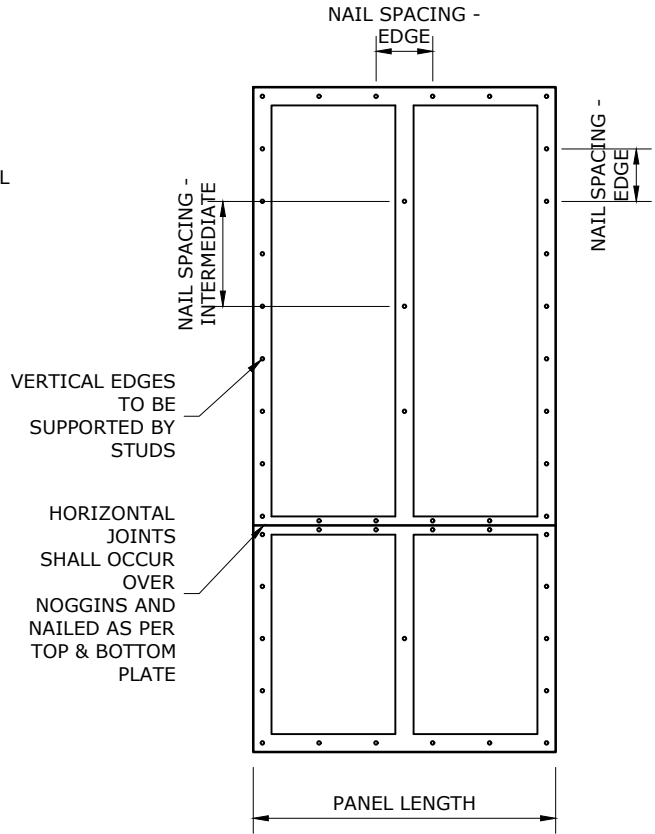
A3 ORIGINAL SIZE



TYPE A TENSION STRAP TYPE A METAL ANGLE TYPE B TENSION STRAP



DETAIL A



SHEET BRACING DETAILS
TYPE C

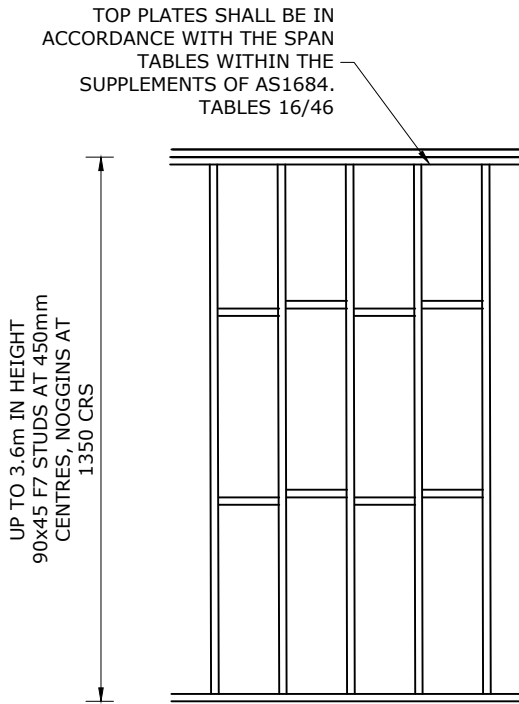
TYPE C - SHEET BRACING (PB) SPECIFICS

PRODUCT	AUSTRALIAN STANDARD	TYPE / GRADE	MINIMUM THICKNESS (mm) FOR STUD SPACING (mm)		PANEL LENGTH (mm)	NAIL SIZE (mm)	NAIL SPACING (mm)		SPECIAL REQUIREMENTS
			450	600			EDGE	INTERMEDIATE	
PLYWOOD	AS2269	F8 F11 F14 F27	7	9	900 / 1200	30xØ2.8 GALV.	50 TO PLATES & 150 TO EDGE STUDS	300	NO NOGGING REQ'D EXCEPT AT SHEET ENDS. NAILS SHALL BE 7mm FROM ALL EDGES
			7	9					
			7	7					
			7	7					
HARDBOARD (MASONITE)	AS2458	G.P.	6.4	6.4	900 / 1200	30xØ2.8 GALV.	50 TO PLATES & 150 TO EDGE STUDS	300	NAILS TO BE 10mm FROM VERTICAL EDGES & 20mm FROM HORIZONTAL EDGES. NO NOGGING REQ'D EXCEPT AT SHEET ENDS.

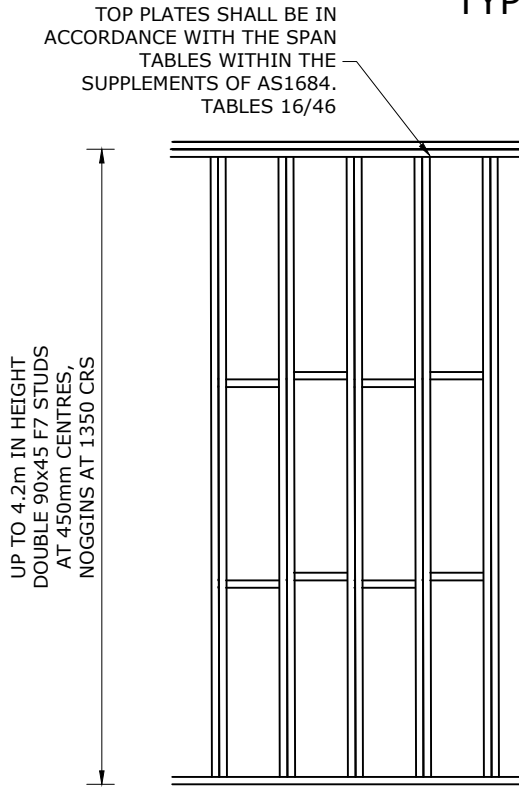
- TYPE B - SHEET BRACING NOTES
- PANEL LENGTHS GREATER THAN THOSE LISTED ABOVE CAN BE CONSIDERED AS A NUMBER OF BRACING UNITS DIRECTLY PROPORTIONED TO THEIR INSTALLED LENGTH i.e. A 1200mm PANEL OF PLYWOOD EQUALS $1200 / 900 = 1.33$ BRACING UNITS.
 - NAILS SHOULD BE DRIVEN JUST BELOW THE SURFACE OF THE SHEET USING THE HAMMER FACE ONLY. NAILS MUST NOT BE PUNCHED.
 - PB* INDICATES FULL LENGTH AVAILABLE.
 - REFER TO TABLE 1 ON THE FOLLOWING SHEET FOR TOP & BOTTOM PLATE FIXING DETAILS.

TYPE B - STRAP BRACING (SB) SPECIFICS

TYPE OF DIAGONAL BRACE	MATERIAL & SIZE	NAILING REQUIREMENTS		SPECIAL REQUIREMENTS
		TO EACH STUD	TO EACH PLATE	
TENSION STRAP	GALVANISED FLAT METAL TENSION STRAP NOM. SIZE 30x0.8mm & MIN. SECTION OF 24mm ²	2x30xØ3.15 GALV. FLAT HEAD NAIL	4x30xØ2.8 GALV. FLAT HEAD NAIL	STRAPS MUST BE PROPERLY TENSIONED & STRAP MUST RETURN OVER TOP PLATE & UNDER THE BOTTOM PLATE. THE STUD NEAREST TO EACH END OF EACH DIAGONAL STRAP SHALL BE FIXED TO THE PLATES WITH STRAPS OR FRAMING ANCHORS 4x30xØ2.8 NAILS AT EACH END.



UP TO 3.6m HIGH WALL FRAMING DETAIL 1:50



UP TO 4.2m HIGH WALL FRAMING DETAIL 1:50

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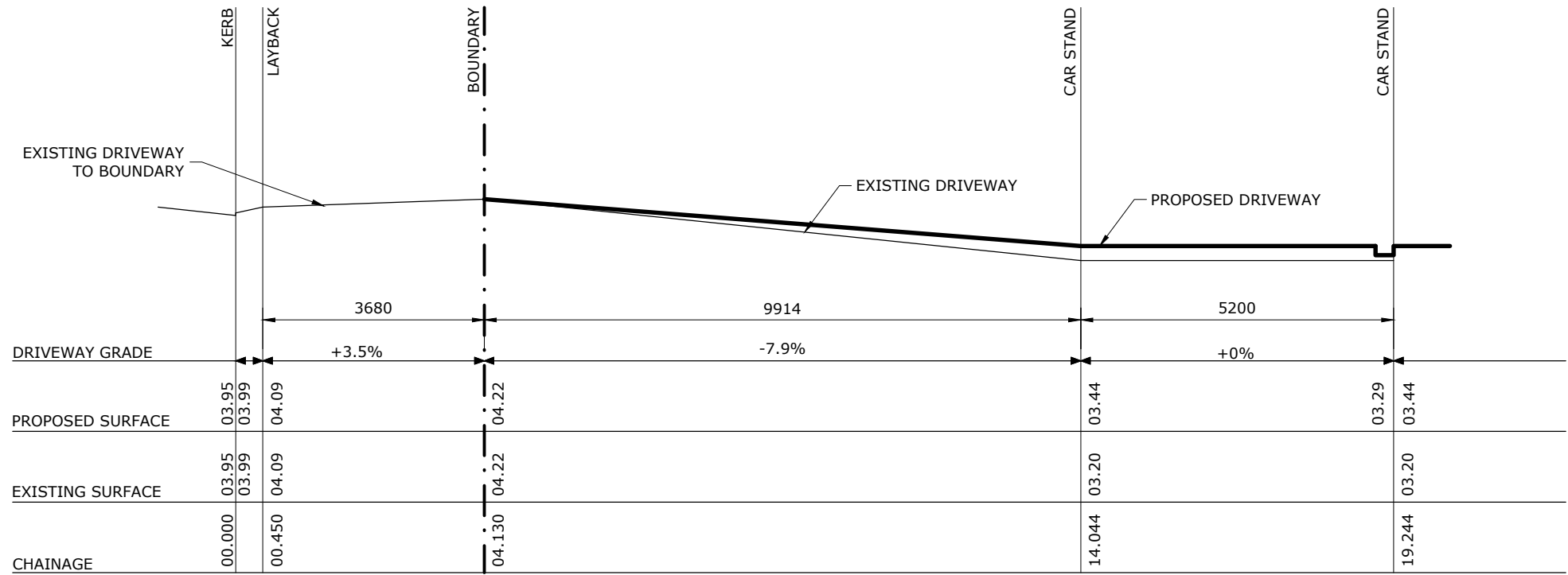
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NEWPORT NSW 2106**

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PROJECT: 19.592	DRAWING: S9	SIGNED:	

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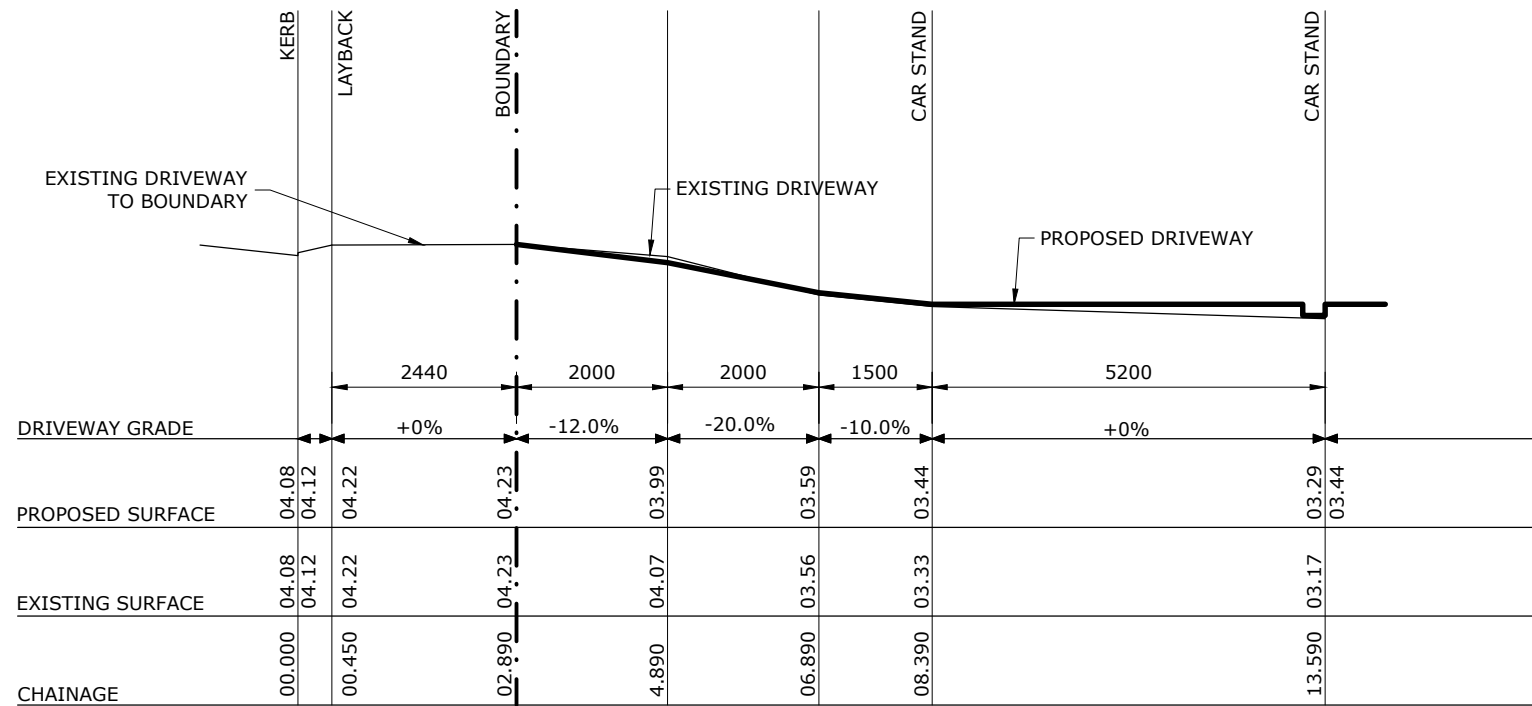
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LONGITUDINAL SECTION DRIVEWAY

1:100

L2
S10



LONGITUDINAL SECTION DRIVEWAY

1:100

L1
S10

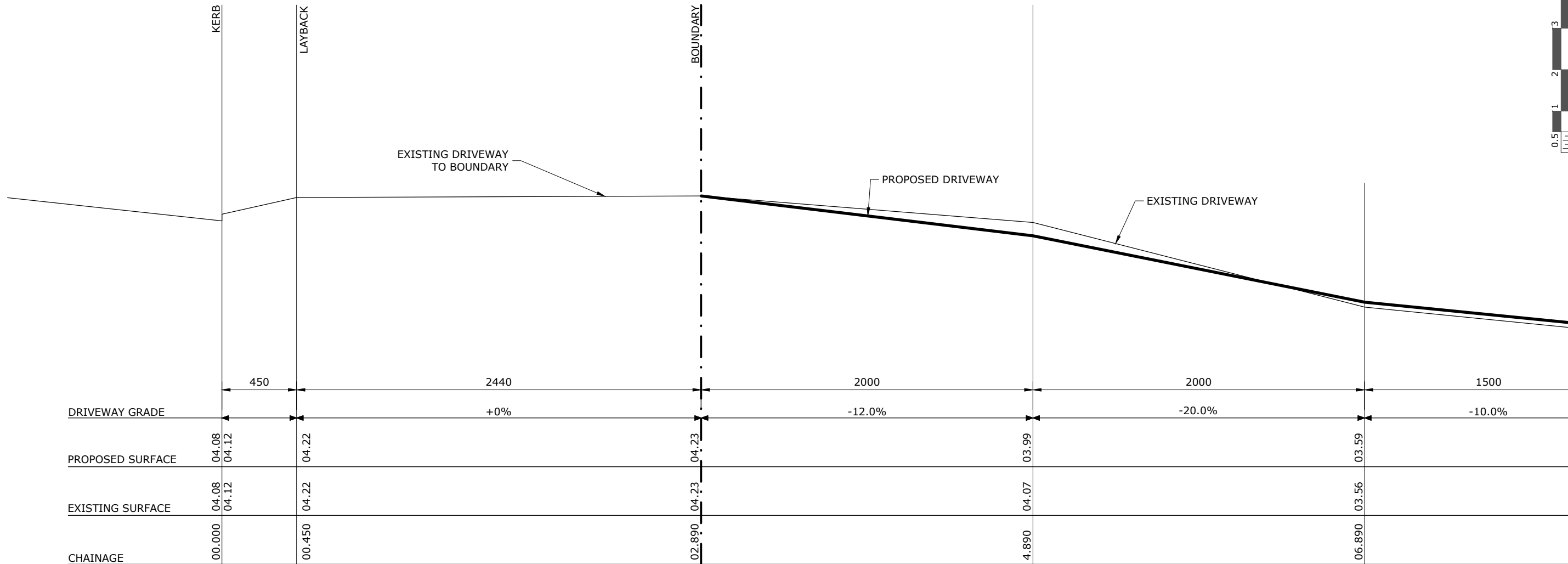
A3 ORIGINAL SIZE

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B		GENERAL REVISIONS		02.10.20				PROJECT NAME: PROPOSED ALTERATIONS 18 YACHTSMANS PARADISE NEWPORT NSW 2106				SCALE: 1:100		DATE: 30 Apr 2020		DESIGN/APPROVED: CB		REV: B	
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LONGITUDINAL SECTION DRIVEWAY
1:25

L1
S10

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DRAWING TITLE:
DRIVEWAY LONG SECTION L1 1/2

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A3 ORIGINAL SIZE



1:25

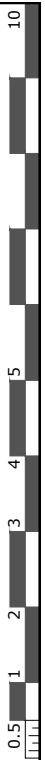


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PROPOSED ALTERATIONS 18 YACHTSMANS PARADISE NEWPORT NSW 2106

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