

GENERAL NOTES:  
G1 THE DRAWINGS AND NOTES SHALL BE READ IN CONJUNCTION WITH ALL ARCHITECTURAL AND OTHER CONSULTANT'S DRAWINGS, REPORTS, SPECIFICATIONS AND ANY OTHER WRITTEN INSTRUCTIONS AS MAY BE ISSUED DURING THE COURSE OF CONSTRUCTION. ALL DISCREPANCIES SHALL BE REFERRED TO THE ENGINEER FOR CLARIFICATION OR DECISION BEFORE PROCEEDING WITH THE WORK.

G2 CONSTRUCTION FROM THESE DRAWINGS SHALL NOT COMMENCE UNTIL THEY ARE APPROVED BY THE RELEVANT AUTHORITIES.

G3 DIMENSIONS SHALL NOT BE OBTAINED FROM THE STRUCTURAL DRAWINGS BY WAY OF SCALING (OR DETERMINING UNDIMENSIONED MEASUREMENTS FROM THE ELECTRONIC DRAWING), WALL, PIER, AND COLUMN THICKNESS, AND STRUCTURAL MEMBER SIZES SHOWN ON THESE DRAWINGS SHALL TAKE PRECEDENCE OVER THOSE SHOWN ON THE ARCHITECT'S DRAWINGS. THE BUILDER SHALL VERIFY ALL DIMENSIONS ON SITE AND BE RESPONSIBLE FOR THE SETTING OUT OF THE BUILDING.

G4 ELEMENTS INDICATED ON THESE DRAWINGS ARE SHOWN IN THEIR INTENDED COMPLETE STATE. THE BUILDER SHALL PROVIDE ANY TEMPORARY WORKS INCLUDING PROPPING, BRACING, SHORING AND ANY OTHER REQUIREMENTS NECESSARY TO MAINTAIN THE STRUCTURE, OR ANY PART OF IT, IN A STABLE CONDITION DURING CONSTRUCTION. IF THE BUILDER IS IN ANY DOUBT AS TO HOW TO ACHIEVE THIS HE SHALL OBTAIN ADVICE FROM APPROPRIATELY QUALIFIED AND EXPERIENCED PERSONNEL. UNLESS STATED OTHERWISE TEMPORARY WORKS SHALL BE THE BUILDERS RESPONSIBILITY.

G5 THE BUILDING SHALL NOT BE ERECTED ON OR ADJACENT TO ANY OF THE FOLLOWING HAZARDS UNLESS THE HAZARD IS INDICATED ON THE STRUCTURAL DRAWING:- EMBANKMENTS, BATTERS, WATER RETAINING STRUCTURES, RETAINING WALLS, PITS, SEWERS, SERVICE TRENCHES, DRAINAGE CHANNELS, STREAMS OR ANY POTENTIAL SOURCE OF DAMAGE TO THE STRUCTURE. IF ANY SUCH HAZARDS ARE ENCOUNTERED THE ENGINEER SHALL BE NOTIFIED AND HIS APPROVAL OBTAINED BEFORE PROCEEDING.

G6 THE BUILDER SHALL LOCATE ALL EXISTING AND PROPOSED SERVICES AND EASEMENTS, ON AND ADJACENT TO THE SITE. THE APPROVAL OF THE RELEVANT STATUTORY AUTHORITY AND THE ENGINEER SHALL BE OBTAINED BEFORE BUILDING ON OR OVER ANY SERVICES OR EASEMENTS.

G7 THE BUILDER SHALL NOT EXCAVATE BELOW THE LEVEL OF THE FOOTINGS TO ANY EXISTING BUILDINGS WITHOUT THE WRITTEN CONSENT OF THE ENGINEER.

G8 THE WRITTEN CONSENT OF ADJOINING PROPERTY OWNERS SHALL BE OBTAINED BEFORE INSTALLATION OF UNDERPINNING, ANCHORING WORK, DRAINAGE LINES OR ANY OTHER WORK BEYOND THE PROPERTY BOUNDARY.

G9 NO HOLES OR CHASES SHALL BE MADE IN ANY STRUCTURAL ELEMENT, UNLESS SHOWN ON THESE DRAWINGS OR WRITTEN APPROVAL OF THE ENGINEER.

G10 A FULL DEPTH 'V' JOINT SHALL BE STRUCK IN RENDER WHERE TWO DIFFERING STRUCTURAL MATERIALS ABUT. I.E. AT THE JUNCTION OF MASONRY WITH CONCRETE.

G11 ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE RELEVANT AUSTRALIAN STANDARDS, THE BUILDING CODE OF AUSTRALIA, AND THE REQUIREMENTS OF THE RELEVANT STATUTORY AUTHORITIES. ALL WORKMANSHIP SHALL BE CONSISTENT WITH GOOD TRADE PRACTICE.

G12 WATERPROOFING REQUIREMENTS SHALL BE SPECIFIED BY THE ARCHITECT AND ARE NOT NECESSARILY INDICATED ON THESE DRAWINGS.

G13 AUSTRALIAN STANDARDS REFERRED TO ON THESE DRAWINGS SHALL BE THE LATEST REVISIONS OF THE NOMINATED STANDARD.

G14 APPROVAL OF A SUBSTITUTION OR ALTERNATIVE FROM THE ENGINEER IS NOT, IN ITSELF AUTHORISATION FOR A VARIATION.

G15 THE ENGINEER SHALL BE GIVEN 48 HOURS NOTICE FOR INSPECTIONS.  
G16 THE WORD ENGINEER AS USED IN THESE NOTES REFERS TO AN EMPLOYEE OR NOMINATED REPRESENTATIVE OF GREENWOOD CONSULTING ENGINEERS

LOADING:  
L1 SUPERIMPOSED LOADS ARE GENERALLY IN ACCORDANCE WITH AS 1170 AND AS NOTED.  
L2 WIND LOADS ARE IN ACCORDANCE WITH AS 1170 AS FOLLOWS :-  
BASIC WIND VELOCITY (REGION A) = 26 m/s  
TERRAIN CATEGORY 3

FOUNDATIONS:

F1 FOOTINGS HAVE BEEN DESIGNED FOR THE FOLLOWING BEARING PRESSURES: BASED ON ASSUMED 'A' CLASS SITE FOR CONSTRUCTION WITH MINIMUM BEARING CAPACITY OF 600 kPa  
F2 FOOTINGS HAVE BEEN DESIGNED IN ACCORDANCE WITH AS2870 – GROUND CONDITIONS TO BE CONFIRMED ONSITE BY GEOTECHNICAL ENGINEER  
F3 IF REQUIRED BY GREENWOOD CONSULTING ENGINEERS FOUNDATION MATERIAL SHALL BE APPROVED BY THE CONSULTING GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT OF CONCRETE.  
F4 FOOTING EXCAVATIONS AND PIER HOLES TO BE KEPT FREE OF WATER. IF BEARING SURFACE OR SIDES ENGINEER PRIOR TO PLACEMENT OF CONCRETE.  
F5 ALL THE REQUIREMENTS OF THE GEOTECHNICAL REPORT FOR THE SITE SHALL BE OBSERVED AND MET.  
F6 FOOTINGS SHALL BE CONCRETED ON THE SAME DAY OF SITE INSPECTION/APPROVAL UNLESS PERMISSION IS GIVEN OTHERWISE TO AVOID SOFTENING OR DRYING OUT.  
F7 FOOTINGS SHALL BE LOCATED CENTRALLY UNDER WALLS AND COLUMNS UNLESS NOTED OTHERWISE

F8 BACKFILL TO RETAINING WALLS SHALL BE FREE DRAINING GRANULAR MATERIAL. PROVIDE SUBSOIL DRAIN AT BASE OF WALL. DO NOT BACKFILL UNTIL 14 DAYS AFTER CORE FILLING, OR IF APPLICABLE, AFTER ESTRAINING SLAB OVER HAS BEEN CURED FOR 7 DAYS. BACKFILL SHALL BE COMPACTED TO 98% STANDARD MAXIMUM DRY DENSITY WITHIN 2% OF OPTIMUM MOISTURE CONTENT.

CONCRETE:

EXPOSURE CLASSIFICATION EXTERNAL - A2  
INTERNAL - A1

CONCRETE

Place concrete of the following characteristic compressive strength f<sub>c</sub> as defined in AS 1379.

CONCRETE SPECIFICATION TABLE

LOCATION	f <sub>c</sub> MPa AFTER 28 DAYS	SPECIFIED SLUMP	NOMINAL AGG SIZE
PAD FOOTINGS	32	80	20
SLAB	32	80	20
CORE FILLING GROUT	20	230 (+/-) 20	10

C1 ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 3600 AND ANY OTHER RELEVANT AUSTRALIAN STANDARDS UNLESS VARIED BY THE ENGINEER.

C2 HOLES, PENETRATIONS, CHASES AND CONSTRUCTION JOINTS, OTHER THAN THOSE SHOWN ON THE STRUCTURAL DRAWINGS SHALL NOT BE MADE IN CONCRETE MEMBERS WITHOUT THE PRIOR APPROVAL OF THE ENGINEER.

C3 CONSTRUCTION JOINTS SHALL BE PROPERLY FORMED WHERE VERTICAL. THE FIRST POUR SHALL BE THOROUGHLY SCABbled AND CLEANED OF ALL POORLY COMPACTED MATERIAL AND LAITANCE. THOROUGHLY SOAKED AND PAINTED WITH A 2:1 SAND CEMENT SLURRY IMMEDIATELY BEFORE PLACING THE SECOND POUR. THOROUGHLY COMPACT THE SECOND POUR AGAINST THE FIRST POUR.

C4 CONDUITS, PIPES AND THE LIKE SHALL BE PLACED WITHIN THE MIDDLE THIRD OF THE SLAB DEPTH AND AT A MINIMUM SPACING OF NOT LESS THAN 3 DIAMETERS. CONDUITS AND PIPES SHALL NOT BE PLACED WITHIN THE CONCRETE COVER OUTLINED BELOW.

C5 THE FINISHED CONCRETE SHALL BE FULLY MECHANICALLY VIBRATED TO ACHIEVE FULL COMPACTION, COMPLETELY FILLING FORMWORK, THOROUGHLY EMBEDDING THE REINFORCEMENT AND FREE OF STONE POCKETS. ALL CONCRETE, INCLUDING SLABS ON GROUND AND FOOTINGS, SHALL BE FULLY VIBRATED USING A HIGH FREQUENCY MECHANICAL VIBRATOR.

C6 ALL CONCRETE SHALL BE PROPERLY CURED. CURING SHALL COMMENCE WITHIN 2 HOURS OF POURING AND SHALL CONTINUE FOR A MINIMUM OF 7 DAYS. FOLLOWED BY A GRADUAL DRYING OUT. CURING SHALL BE BY CONTINUOUS SATURATION WITH POTABLE WATER OR BY USE OF AN APPROVED PROPRIETARY CURING COMPOUND COMPLYING WITH AS 3799, APPLIED UNIFORMLY IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS. THE COMPATIBILITY OF CURING COMPOUNDS WITH PROPOSED APPLIED FINISHES SHALL BE VERIFIED PRIOR TO APPLICATION. FORMED SURFACES EXPOSED WITHIN 14 DAYS OF CASTING SHALL BE SPRAYED WITH AN APPROPRIATE CURING AGENT IMMEDIATELY UPON EXPOSURE.

C7 SEE CONCRETE SPECIFICATION TABLE ABOVE.

C8 WHERE A VAPOUR BARRIER IS SPECIFIED BENEATH SLABS ON GROUND PROVIDE A 0.2mm BRANDED POLYTHENE MEMBRANE THROUGHOUT. LAP SHEETS 300mm AND SEAL WITH A 50mm WIDE PRESSURE SENSITIVE WATERPROOF TAPE.

C9 WHERE CONCRETE SLABS BEAR ON MASONRY, INCLUDING CORED BRICKS, THE BEARING SURFACE OF THE MASONRY SHALL BE RENDERED WITH 1:3 CEMENT SAND MORTAR TO GIVE A LEVEL SURFACE AND A METAL SLIP JOINT LAID PROTECTED BY 0.2mm POLYTHENE SHEET TAPED TO FORMWORK BEFORE PLACING CONCRETE.

C10 NON LOADBEARING MASONRY SHALL BE SEPARATED FROM THE SOFFIT OF SLABS AND BEAMS BY 12mm CANITE OR OTHER MEANS APPROVED BY THE ENGINEER.

C11 BEFORE THE COMMENCEMENT OF CONCRETING THE BUILDER SHALL ENSURE THE CONCRETOR IS FULLY AWARE OF ANY AREAS OF FORMWORK THAT HAVE BEEN PRE-CAMBERED OR PRE-SET. EXTREME CARE MUST BE TAKEN TO ENSURE THE SPECIFIED DEPTHS OF BEAMS AND SLABS ARE ACHIEVED IN AREAS OF PRE-SET OR PRE-CAMBERED FORMWORK. THIS CANNOT BE ACHIEVED BY LEVELLING THE CONCRETE SURFACE INTO THE NOMINAL FINISHED CONCRETE LEVEL.

C12 CONSTRUCTION AND SUPPORT PROPPING SHALL BE ADDED, OR LEFT IN PLACE, TO AVOID OVERSTRESSING THE STRUCTURE DUE TO CONSTRUCTION LOADS

C13 NO MASONRY OR PARTITION WALLS SHALL BE CONSTRUCTED ON SUSPENDED LEVELS UNTIL 7 DAYS AFTER PROPPING HAS BEEN REMOVED AND THE SLAB PRE-LOADED WITH THE BRICKS OR MATERIALS TO BE USED IN THE WALL.

RESIDENTIAL FOOTINGS AND SLABS

R1 THIS DESIGN HAS BEEN CARRIED OUT IN ACCORDANCE WITH AS2870. CONFIRMATION OF THE SITE CLASSIFICATION IN ACCORDANCE WITH AS2870 IS REQUIRED BY A GEOTECHNICAL ENGINEER PRIOR TO CONSTRUCTION COMMENCING ONSITE AND SHALL INCLUDE CONFIRMATION OF BEARING CAPACITY.

R2 THE OWNERS ATTENTION IS DRAWN TO THE ACCEPTABLE LEVELS OF FOUNDATION PERFORMANCE AS OUTLINED BY AS2870. ACCORDINGLY CATEGORY 1 OR 2 DAMAGE MAY BE EXPECTED UNDER SOME CONDITIONS. SHOULD A HIGHER LEVEL OF CRACK CONTROL BE REQUIRED THEN THE ENGINEER SHOULD BE NOTIFIED SO THAT THIS CAN BE INCORPORATED INTO THE DESIGN.

R3 SITES SHALL BE PREPARED IN ACCORDANCE WITH AS2870. AS A MINIMUM THIS MUST INCLUDE: TOP SOIL CONTAINING GRASS, ROOTS OR ANY OTHER ORGANIC MATERIAL SHALL BE REMOVED FROM THE AREA ON WHICH THE SLAB IS TO REST. BLIND WITH SAND SUFFICIENT ONLY TO ENSURE NO DAMAGE TO DAMP PROOF MEMBRANE (50mm MAX). A VAPOUR BARRIER/DAMP PROOF MEMBRANE SHALL BE PROVIDED. THE MEMBRANE SHALL BE POLYTHENE SHEETING OF MINIMUM THICKNESS 0.2mm. THE SHEET SHALL BE LAID BENEATH THE SLAB SUCH THAT THE SLAB AND ALL BEAMS ARE ENTIRELY UNDERLAID. THE SHEET SHALL EXTEND UNDER EDGE BEAMS TO GROUND LEVEL. SHEET JOINTS SHALL BE FULLY TAPED LAPS WITH A MINIMUM OF 300mm OVERLAP. PENETRATIONS AT PIPES OR FITTINGS, ETC SHALL BE TAPED OR SEALED WITH A CLOSE FITTING SLEEVE OR TURN UP OF THE MEMBRANE.

R4 WHERE ENGINEERED FILL IS REQUIRED, THE FILL SHOULD BE IN STRICT ACCORDANCE WITH GEOTECHNICAL ENGINEERS DESIGN AND ADVICE

R5 WHERE NOTED ON DRAWINGS AS 'FILL AS FORMWORK', FILLING SHALL BE MATERIAL COMPACTED IN LAYERS BY REPEATED ROLLING WITH AN EXCAVATOR OR SIMILAR EQUIPMENT. THE DEPTH OF THE ROLLED FILL SHALL NOT EXCEED: 0.6M FOR SAND FILL COMPACTED IN LAYERS NOT EXCEEDING 300mm & 0.3M FOR NON-SAND FILL COMPACTED IN LAYERS NOT MORE THAN 150mm.

R6 WHERE NOTED ON DRAWINGS AS 'FILL AS FORMWORK', FILLING SHALL BE COMPACTED SUFFICIENTLY TO PROVIDE A STABLE PLATFORM DURING CONSTRUCTION. THIS WOULD NORMALLY BE PROVIDED BY COMPACTION TO AT LEAST 85% MAXIMUM STANDARD DRY DENSITY. CONTRACTOR TO ENSURE ALL ADJACENT WALLS REMAIN STABLE DURING COMPACTION.

R7 WHERE HOT WATER PIPES ARE TO BE EMBEDDED IN A SLAB, THE SLAB THICKNESS SHALL BE INCREASED BY 25mm AND THE MESH SIZE INCREASED ONE LEVEL (E.G FROM SL82 TO SL92).

R8 ALLOTMENTS CONTAINING REACTIVE SITES CLASSIFIED AS M, H1, H2 OR E SHALL BE PROVIDED WITH AN ADEQUATE SYSTEM OF DRAINAGE IN ACCORDANCE WITH AS2870 TO ENSURE BEST POSSIBLE FOUNDATION PERFORMANCE. AT A MINIMUM THE FOLLOWING SHOULD BE MAINTAINED: THE SITE SHOULD BE GRADED OR DRAINED SO THAT WATER CANNOT POND AGAINST OR NEAR THE BUILDING. SUBFLOOR AREAS SHOULD BE GRADED TO PREVENT WATER PONDING.

## 2a BOLINGBROKE PARADE, FAIRLIGHT NOTE SHEET

STRUCTURAL STEEL:

S1 TWO COPIES OF SHOP DETAIL DRAWINGS SHALL BE SUBMITTED TO ENGINEERS AND APPROVAL OF SAME OBTAINED BEFORE COMMENCING FABRICATION, APPROVAL WILL NOT COVER DIMENSIONS OF LAYOUT.

S2 STEEL SHALL BE GRADE 350 FOR HOLLOW SECTIONS AND GRADE 300 FOR ALL ROLLED SECTIONS U.N.O.

S3 STEEL FABRICATOR SHALL PROVIDE ALL CERTIFICATION FOR QUALITY AND GRADE OF STEEL AND STRUCTURAL BOLTS. AND GREENWOOD ENGINEERS WILL REVIEW CERTIFICATION AND CONFIRM THAT IT COMPLIES WITH RELEVANT STANDARDS.

S4 BOLTS ARE DESIGNATED ON THE DRAWINGS BY THE NUMBER, DIAMETER, GRADE AND TIGHTENING PROCEDURE IN ACCORDANCE WITH A.I.S.C. BOLTING PROCEDURES (STANDARDISED STRUCTURAL CONNECTIONS) AND A.S.4100.

S5 UNLESS OTHERWISE NOTED, WELDS SHALL BE 6mm CATEGORY SP CONTINUOUS FILLET LAID DOWN WITH APPROVED COVERED ELECTRODE. BOLTS SHALL BE M20 8.8/S, min. 2 BOLTS PER CONNECTION. CLEATS AND GUSSETS SHALL BE 10mm THICK.

S6 ALL CLEATS AND DRILLINGS FOR FIXING OF TIMBER MEMBERS etc. SHALL BE PROVIDED BY FABRICATOR.

S7 CAMBER TO STRUCTURAL STEEL ROOF BEAMS, TRUSSES, PORTALS etc. SHALL BE 5mm FOR EVERY 2000 OF SPAN UNLESS OTHERWISE NOTED.

S8 ALL STRUCTURAL STEELWORK BELOW GROUND SHALL BE ENCASED IN CONCRETE MINIMUM 75mm ALL AROUND.

S9 TRANSLUCENT SHEETING SHALL BE OF GAUGE COMPATIBLE WITH PURLIN SPACING IF STANDARD GAUGE IS USED THEN ADDITIONAL C10012 PURLIN TRIMMERS SHALL BE PROVIDED TO GIVE SUPPORT TO SHEETING AT 1200 CENTRES MAX. SAFETY MESH UNDER TRANSLUCENT SHEETING SHALL CONFORM WITH WORKCOVER REQUIREMENTS.

S10 ALL STRUCTURAL STEELWORK SHALL BE GRIT BLASTED TO CLASS 2.5 AND PAINTED WITH BLUE ZINC PHOSPHATE 75µm DRY FILM THICKNESS UNLESS NOTED OTHERWISE IN ARCHITECTS SPECIFICATION.

S11 ALL STRUCTURAL STEEL MEMBERS SPECIFIED ON THE DRAWINGS OR OTHER RELATED CONTRACTS AS BEING GALVANISED SHALL CONFORM TO THE REQUIREMENTS OF A.S.4680.

S12 THE MINIMUM APPLICATION RATE FOR GALVANISING SHALL BE 550g/sq.m.

S13 ALL STRUCTURAL STEELWORK, MATERIALS, FABRICATION AND ERECTION SHALL COMPLY WITH A.S. 4100.

S14 WELD TESTING  
THE EXTENT OF NON-DESTRUCTIVE WELD EXAMINATION SHALL BE AS NOTED BELOW RADIOGRAPHIC OR ULTRASONIC EXAMINATION SHALL BE TO AS1554.1, AS2177.1 AND AS2207

S15 FLASH WELDING AND TESTING OF ALL STUDS SHALL COMPLY WITH AS1554.2

S16 SUSPENDED CEILINGS AND BULKHEADS, WHERE SUPPORTED BY PURLINS, SHALL BE SUPPORTED BY WEB CONNECTION ONLY AND NOT HOOKED FROM BOTTOM LIP. THE CONTRACTOR SHALL PROVIDE THE BUILDER WITH CERTIFICATION OF STRUCTURAL ADEQUACY STATING COMPLIANCE WITH THE ABOVE.

S17 ALL EXTERNAL STEELWORK SHALL BE HOT DIPPED GALVANISED

BRICKWORK:

B1 ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH A.S. 3700 EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS

B2 BRICK COMPRESSIVE STRENGTH f<sub>uc</sub> SHALL BE 20MPa min. U.N.O.

B3 BRICK MORTAR SHALL BE 1 : 1 : 6 PROPORTIONS BY VOLUME OF CEMENT LIME AND SAND.

B4 PROVIDE MOVEMENT JOINTS EVERY 8m U.N.O.  
PROVIDE MOVEMENT JOINTS EVERY 4m IN PARAPET WALLS

B5 NO BRICKWORK WHICH IS SUPPORTED BY THE SLAB SHALL BE ERECTED UNTIL THE FORMWORK HAS BEEN REMOVED.

B6 PROVIDE SMOOTH TROWELED MORTAR BED AND TWO LAYERS OF 'ALCOR' ON TOP OF ALL LOAD BEARING WALLS WHERE SLIP JOINTS ARE NOMINATED.

TIMBER:

T1 ALL TIMBER STRUCTURAL MEMBERS SHALL BE PLACED AND FIXED IN ACCORDANCE WITH AS1684 AND AS1720 AS APPROPRIATE.

T2 TIMBER MEMBERS NOT INDICATED ON THE PLANS SHALL BE SELECTED IN ACCORDANCE WITH THE ABOVE CODES.

T3 THE ROOF SHALL BE DESIGNED FOR WIND LOADING IN ACCORDANCE WITH AS 1170.2.

T4 ALL SCREWS AND BOLTS SHALL BE GALVANISED AND FIXED IN ACCORDANCE WITH AS1720

T5 ALL TIMBER JOINTS, BEARERS AND RAFTERS SHALL BE FREE FROM DEFECTS.

T6 DURING CONSTRUCTION IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT THE TIMBER IS PROTECTED FROM THE WEATHER AND STRENGTH IS NOT IMPAIRED IN ANY WAY.

T7 THE ACTUAL DIMENSIONS OF THE TIMBER SHALL NOT DIFFER IN ANY WAY FROM THOSE NOMINATED ON THE DRAWINGS BY MORE THAN THE TOLERANCES ALLOWED IN AS1748, AS2082 AND AS2858.

T8 ALL SOFTWOOD SHALL BE F8 GRADE UNLESS OTHERWISE NOTED. ALL HARDWOOD SHALL BE F14 UNLESS OTHERWISE NOTED. EXPOSED TIMBER TO BE CCA TREATED (TO AS1604) REDRIED AFTER FULL IMPREGNATION OR DURABILITY CLASS 1, 2 OR 3. ALL SOFTWOOD TIMBER FRAMING TO HAVE A MINIMUM TREATMENT PROTECTION OF H2 OR T2 TREATED FOR TERMITE PROTECTION. U.N.O.

T9 ALL JOISTS DEEPER THAN 150mm TO HAVE BLOCKING OVER SUPPORT BEARERS AND AT 2500 c/c MAX.

T10 TREAT ALL EXPOSED CUT ENDS WITH RESEAL BY PROTIM TO MANUFACTURERS SPECIFICATIONS TO ACHIEVE HAZARD LEVEL EXPOSURE CLASSIFICATION

ENGINEERING INSPECTIONS

48HRs NOTICE MINIMUM IS REQUIRED BEFORE ANY SITE INSPECTION. ANY AREAS NOT INSPECTED BY GREENWOOD CONSULTING ENGINEERS WILL NOT BE CERTIFIED. (PHOTO REVIEW OF ELEMENTS ARE NOT PERMISSIBLE)

E1 BEARING STRATA OF FOUNDATIONS FOR ALL FOOTINGS PRIOR TO CONCRETE POUR TO BE INSPECTED BY GREENWOOD CONSULTING ENGINEERS AND IF SO DEEMED BY A QUALIFIED GEOTECHNICAL ENGINEER.

E2 REINFORCEMENT IN ALL CONCRETE ELEMENTS PRIOR TO CONCRETE POUR.

E3 TIMBER AND STEEL FRAMING PRIOR TO CLADDING AND LINING.

BLOCKWORK:

BL1 ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH A.S. 3700 EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS

BL2 BLOCK COMPRESSIVE STRENGTH f<sub>uc</sub> SHALL BE 15 MPa min. U.N.O  
BLOCK GRADE SHOULD BE CLEARLY INDICATED ON THE DELIVERY DOCKET.

BL3 MORTAR SHALL CONSIST OF 1 PART CEMENT, 1 PART LIME AND 6 PARTS SAND. MORTAR SHALL COMPLY WITH A.S. 3700.


BL4 REINFORCEMENT SHALL BE PLACED AND SECURELY HELD IN THE LOCATIONS INDICATED. RODS SHALL BE TIED TO STARTER BARS IN CLEANOUT BLOCKS. COVER TO VERTICAL REINFORCEMENT SHALL BE 50MM FROM THE OUTSIDE OF THE BLOCK WHERE DRAWN ADJACENT TO BLOCK FACE

BL5 MORTAR PROTRUDING INTO CORE HOLES SHALL BE REMOVED BY THE BLOCK LAYER AFTER EACH COURSE IS LAID. EVERY CORE FILLED WITH GROUT SHALL HAVE A CLEANOUT BLOCK IN THE BOTTOM COURSE

BL6 CORE FILLING GROUT SHALL BE AS SET OUT IN CONCRETE SPECIFICATION TABLE.

BL7 PROVIDE MOVEMENT JOINTS EVERY 6m AND/OR OVER EVERY FLOOR JOINT U.N.O. PROVIDE MOVEMENT JOINTS EVERY 4m IN PARAPET WALLS.

BL8 PROVIDE SMOOTH TROWELED MORTAR BED AND TWO LAYERS OF 'ALCOR' ON TOP OF ALL LOAD BEARING WALLS WHERE SLIP JOINTS ARE NOMINATED.

			Client	 <b>GREENWOOD CONSULTING ENGINEERS</b>  2/25 Seabeach Avenue, Mona Vale eliot@greenwoodengineers.com.au ABN - 90 625 916 341	Project	Drawn	Designed	Date
			Jess Tieu and James Harkin		2a BOLINGBROKE PARADE, FAIRLIGHT RESIDENTIAL ALTERATIONS AND ADDITIONS	BS	EG	20/10/2021
			Architect			Checked	Approved EG	Scale NTS
			FE DESIGNS		Title	Drawing number		Revision
A	ISSUE FOR APPROVAL	20/10/2021			NOTE SHEET	2021237 - 000		A
REVISION	AMENDMENT	DATE						

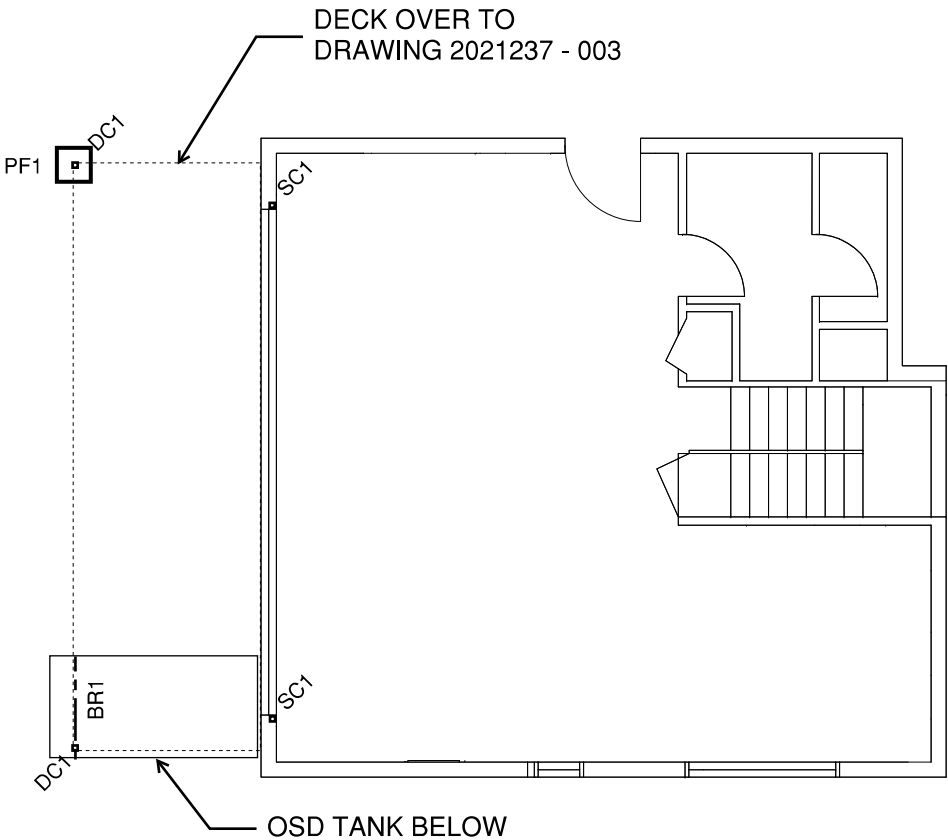
MEMBER SCHEDULE

BR1...150UC30  
SC1...150UC37  
DC1...150UC37

NOTE:

1. ALL TIMBER STUDD WALLS TO BE 90x45 MGP10 H2 or T2 TREATED STUDS AT 450 CTS. STUD IN ACCORDANCE WITH AS1684.2-2010 AS WELL AS NSW TIMBER FRAMING MANUAL.
2. ALL EXISTING WALLS AND FOOTING TO BE CONFIRMED ONSITE
3. ALL TIMBER LINTEL BEAMS TO BE IN ACCORDANCE WITH AS1684.2-2010.
4. ALL TIMBER TO TIMBER TIE DOWNS AND CONNECTIONS TO BE TO AS 1684.2 - 2010
5. DOUBLE JOISTS TO BE LOCATED BELOW ALL LOAD BEARING STUD WALLS.
6. ALL ADDITIONAL BRACING BY OTHERS TO AS1684.2 CLASS N2
7. ALL TIMBER BEAMS/LINTELS TO BEAR ONTO DOUBLE STUD U.N.O
8. ALL STEEL BEAMS BEARING ONTO BRICKWORK NO LESS THAN 200mm WHEN PARALLEL TO WALL AND TO HAVE 300 WIDE 10mm THICK BEARING PLATE WHEN PERPENDICULAR.
9. ALL HYSpan BEAMS TO BE LAMINATED AS PER DETAIL H1 AND MANUFACTURERS GUIDELINES.
10. TIMBER BLOCKING AT MID SPAN OF ALL JOISTS AND RAFTERS
11. WALL AND ROOF BRACING IS TO BE IN ACCORDANCE WITH AS 1684 TIMBER FRAMING CODE AND NSW TIMBER FRAMING MANUAL.
12. TRIM ROOF OPENINGS WITH EQUIVALENT RAFTER/PURLIN SIZES U.N.O..
13. FOR STEEL COLUMN TO TIMBER/STEEL MEMBERS USE 10mm PLATE WITH 2 M16 BOLTS FOR ANY CLEAT CONNECTIONS.
14. ALL EXTERNAL/EXPOSED SOFTWOOD MEMBERS ARE TO BE SUITABLY PRESERVATIVE TREATED TO H3 LEVEL (AS 1604) THEN STAINED OR PAINTED.
15. ALL EXTERNAL/EXPOSED HARDWOOD MEMBERS ARE TO BE OF DURABILITY CLASS 2 OR BETTER (AS 1604) THEN STAINED OR PAINTED.
16. ENGINEER TO INSPECT AND CERTIFY ALL FRAMING, TIE DOWNS AND BRACING PRIOR TO SHEETING.
17. WATERPROOFING AND FLASHING AT INTERNAL TO EXTERNAL STEP TO BE IN ACCORDANCE WITH BCA
18. ALL EXPOSED STEEL WORK TO BE GALVANISED OR SUITABLY PAINTED WITH A 2 COAT EPOXY SYSTEM APPLIED IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS AND GUIDELINES AND TO BE APPROVED BY ENGINEER.
19. ALL TIMBER FIXINGS AND TIE DOWNS TO BE IN ACCORDANCE WITH AS1684.2 FOR N2 WIND CONDITIONS

IF IN DOUBT ABOUT ANY ASPECT OF PROJECT CONTACT THIS OFFICE ON 0421399423



LOWER GROUND FLOOR FOOTING AND  
FRAMING PLAN

SCALE 1:100

NOTE:


Please note Greenwood Consulting Engineers is to be given 48 hours notice (minimum) prior to required site inspections. Greenwood Consulting Engineers will not certify or sign off structural elements which have not been inspected. Greenwood Consulting Engineers will not certify or sign off based on photos unless explicitly approved by Eliot Greenwood of Greenwood Consulting Engineers.

ALL EXPOSED STEEL WORK TO BE GALVANISED OR SUITABLY PAINTED WITH A 2 COAT EPOXY SYSTEM APPLIED IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS AND GUIDELINES AND TO BE APPROVED BY ARCHITECT. PROVIDE SEAL PLATES TO THE ENDS OF ALL HOLLOW SECTIONS, WITH 'BREATHER' HOLES IF MEMBERS TO BE HOT DIP GALVANISED. SITE WELDING OF HOT DIP GALVANISED STEEL IS PERMISSIBLE IF UPON COMPLETION THE WELDS ARE TREATED WITH THE APPROPRIATE COATING AS PER AS/NZS2312

LOCATION AND SETOUT OF STRUCTURAL STEEL AND TIMBER MEMBERS SHOWN ON THIS DRAWING IS DIAGRAMMATIC ONLY. DIMENSIONAL SETOUT AND ALIGNMENT OF ALL STRUCTURAL STEEL AND TIMBER MEMBERS SHOWN ON THIS DRAWING IS TO BE AS PER ARCHITECTS DRAWINGS OR ON SITE MEASUREMENTS.

LEGEND

- - BEAM - SEE MEMBER SCHEDULE
- ↕ RAFTER/JOIST - SEE MEMBER SCHEDULE
- POST

			Client	 2/25 Seabeach Avenue, Mona Vale eliot@greenwoodengineers.com.au ABN - 90 625 916 341	Project	Drawn	Designed	Date
			Jess Tieu and James Harkin		2a BOLINGBROKE PARADE, FAIRLIGHT RESIDENTIAL ALTERATIONS AND ADDITIONS	BS	EG	20/10/2021
			Architect			Checked	Approved	Scale
			FE DESIGNS				EG	1:100
A	ISSUE FOR APPROVAL	20/10/2021			Title	Drawing number	Revision	
REVISION	AMENDMENT	DATE			LOWER GROUND FLOOR FOOTING AND FRAMING PLAN	2021237 - 001	A	

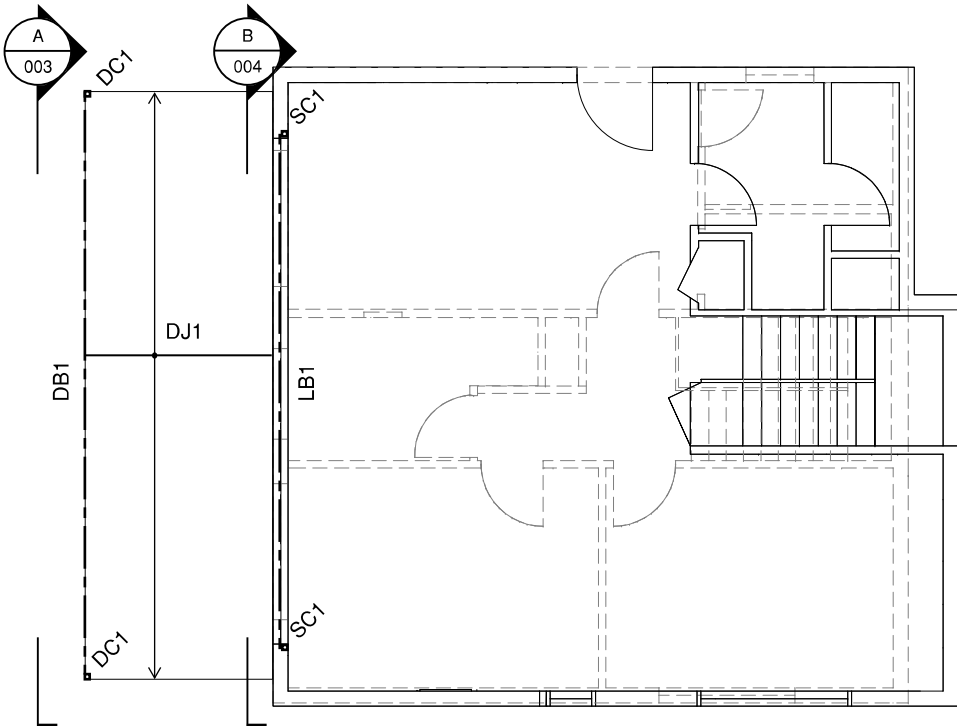
MEMBER SCHEDULE

LB1...310UB46  
DB1...250UB25.7  
DJ1...200x45 meySPAN13 JOIST @ 450c/c  
SC1...150UC37  
DC1...150UC37

NOTE:

- 1. ALL TIMBER STUDD WALLS TO BE 90x45 MGP10 H2 or T2 TREATED STUDS AT 450 CTS. STUD IN ACCORDANCE WITH AS1684.2-2010 AS WELL AS NSW TIMBER FRAMING MANUAL.
- 2. ALL EXISTING WALLS AND FOOTING TO BE CONFIRMED ONSITE
- 3. ALL TIMBER LINTEL BEAMS TO BE IN ACCORDANCE WITH AS1684.2-2010.
- 4. ALL TIMBER TO TIMBER TIE DOWNS AND CONNECTIONS TO BE TO AS 1684.2 - 2010
- 5. DOUBLE JOISTS TO BE LOCATED BELOW ALL LOAD BEARING STUD WALLS.
- 6. ALL ADDITIONAL BRACING BY OTHERS TO AS1684.2 CLASS N2
- 7. ALL TIMBER BEAMS/LINTELS TO BEAR ONTO DOUBLE STUD U.N.O
- 8. ALL STEEL BEAMS BEARING ONTO BRICKWORK NO LESS THAN 200mm WHEN PARALEL TO WALL AND TO HAVE 300 WIDE 10mm THICK BEARING PLATE WHEN PERPENDICULAR.
- 9. ALL HYSpan BEAMS TO BE LAMINATED AS PER DETAIL H1 AND MANUFACTURERS GUIDELINES.
- 10. TIMBER BLOCKING AT MID SPAN OF ALL JOISTS AND RAFTERS
- 11. WALL AND ROOF BRACING IS TO BE IN ACCORDANCE WITH AS 1684 TIMBER FRAMING CODE AND NSW TIMBER FRAMING MANUAL.
- 12. TRIM ROOF OPENINGS WITH EQUIVALENT RAFTER/PURLIN SIZES U.N.O..
- 13. FOR STEEL COLUMN TO TIMBER/STEEL MEMBERS USE 10mm PLATE WITH 2 M16 BOLTS FOR ANY CLEAT CONNECTIONS.
- 14. ALL EXTERNAL/EXPOSED SOFTWOOD MEMBERS ARE TO BE SUITABLY PRESERVATIVE TREATED TO H3 LEVEL (AS 1604) THEN STAINED OR PAINTED.
- 15. ALL EXTERNAL/EXPOSED HARDWOOD MEMBERS ARE TO BE OF DURABILITY CLASS 2 OR BETTER (AS 1604) THEN STAINED OR PAINTED.
- 16. ENGINEER TO INSPECT AND CERTIFY ALL FRAMING, TIE DOWNS AND BRACING PRIOR TO SHEETING.
- 17. WATERPROOFING AND FLASHING AT INTERNAL TO EXTERNAL STEP TO BE IN ACCORDANCE WITH BCA
- 18. ALL EXPOSED STEEL WORK TO BE GALVANISED OR SUITABLY PAINTED WITH A 2 COAT EPOXY SYSTEM APPLIED IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS AND GUIDELINES AND TO BE APPROVED BY ENGINEER.
- 19. ALL TIMBER FIXINGS AND TIE DOWNS TO BE IN ACCORDANCE WITH AS1684.2 FOR N2 WIND CONDITIONS

IF IN DOUBT ABOUT ANY ASPECT OF PROJECT CONTACT THIS OFFICE ON 0421399423



FIRST FLOOR FRAMING PLAN

SCALE 1:100

FIRST FLOOR = - - - - -  
GROUND FLOOR = \_\_\_\_\_

NOTE:


Please note Greenwood Consulting Engineers is to be given 48 hours notice (minimum) prior to required site inspections. Greenwood Consulting Engineers will not certify or sign off structural elements which have not been inspected. Greenwood Consulting Engineers will not certify or sign off based on photos unless explicitly approved by Eliot Greenwood of Greenwood Consulting Engineers.

ALL EXPOSED STEEL WORK TO BE GALVANISED OR SUITABLY PAINTED WITH A 2 COAT EPOXY SYSTEM APPLIED IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS AND GUIDELINES AND TO BE APPROVED BY ARCHITECT. PROVIDE SEAL PLATES TO THE ENDS OF ALL HOLLOW SECTIONS. WITH 'BREATHER' HOLES IF MEMBERS TO BE HOT DIP GALVANISED. SITE WELDING OF HOT DIP GALVANISED STEEL IS PERMISSIBLE IF UPON COMPLETION THE WELDS ARE TREATED WITH THE APPROPRIATE COATING AS PER AS/NZS2312

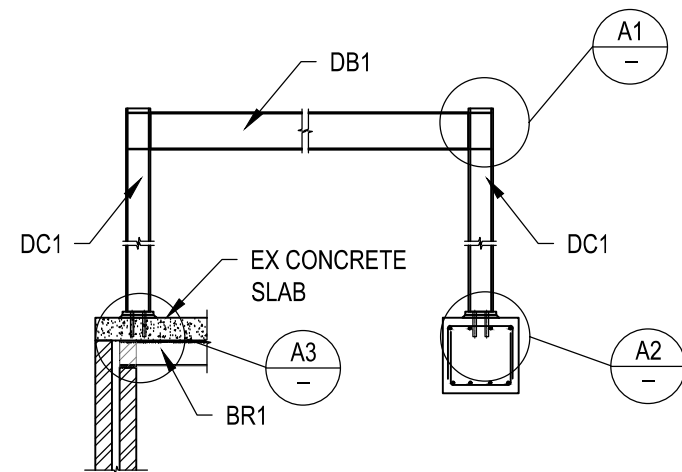
LOCATION AND SETOUT OF STRUCTURAL STEEL AND TIMBER MEMBERS SHOWN ON THIS DRAWING IS DIAGRAMMATIC ONLY. DIMENSIONAL SETOUT AND ALIGNMENT OF ALL STRUCTURAL STEEL AND TIMBER MEMBERS SHOWN ON THIS DRAWING IS TO BE AS PER ARCHITECTS DRAWINGS OR ON SITE MEASUREMENTS.

LEGEND

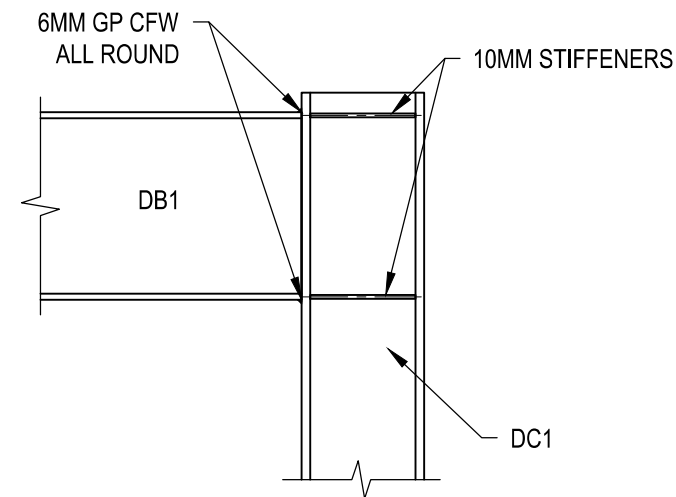
- - - BEAM - SEE MEMBER SCHEDULE
- ↑ ↓ RAFTER/JOIST - SEE MEMBER SCHEDULE
- POST

			Client Jess Tieu and James Harkin	<div></div> <div>GREENWOOD CONSULTING ENGINEERS</div> <div>2/25 Seabeach Avenue, Mona Vale eliot@greenwoodengineers.com.au ABN - 90 625 916 341</div>	Project 2a BOLINGBROKE PARADE, FAIRLIGHT RESIDENTIAL ALTERATIONS AND ADDITIONS	Drawn BS	Designed EG	Date 20/10/2021
			Architect FE DESIGNS			Checked	Approved EG	Scale 1:100
A	ISSUE FOR APPROVAL	20/10/2021			Title FIRST FLOOR FOOTING AND FRAMING PLAN	Drawing number 2021237 - 002		Revision A
REVISION	AMENDMENT	DATE						

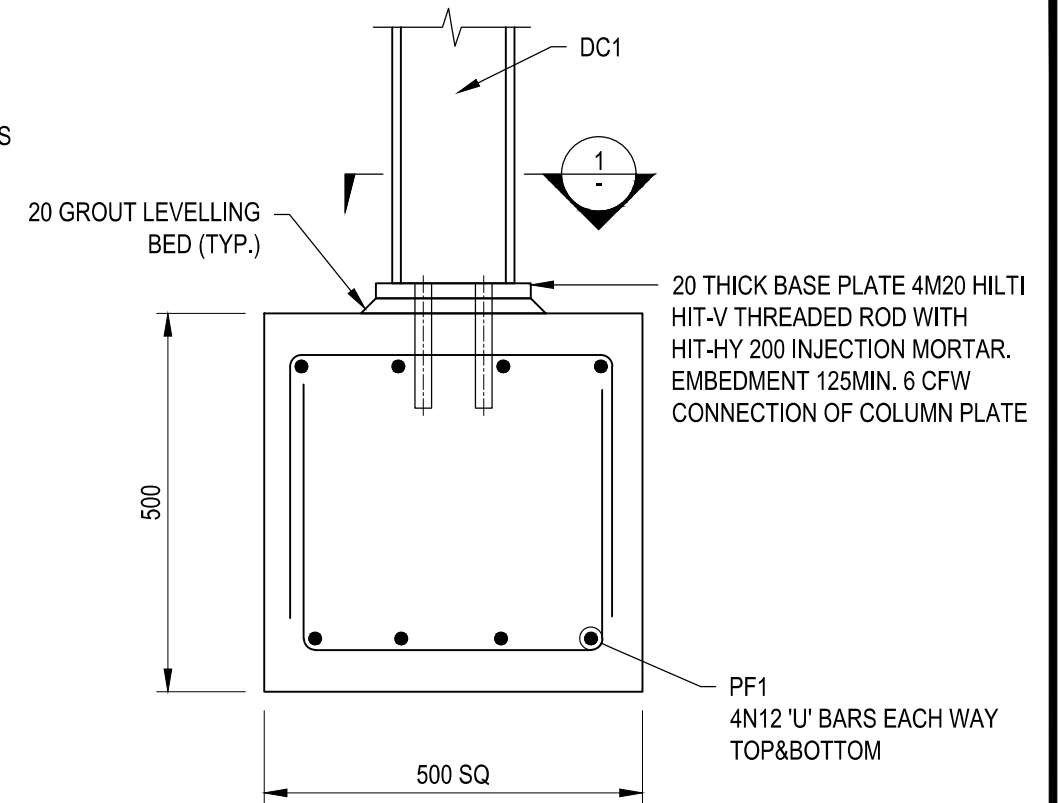




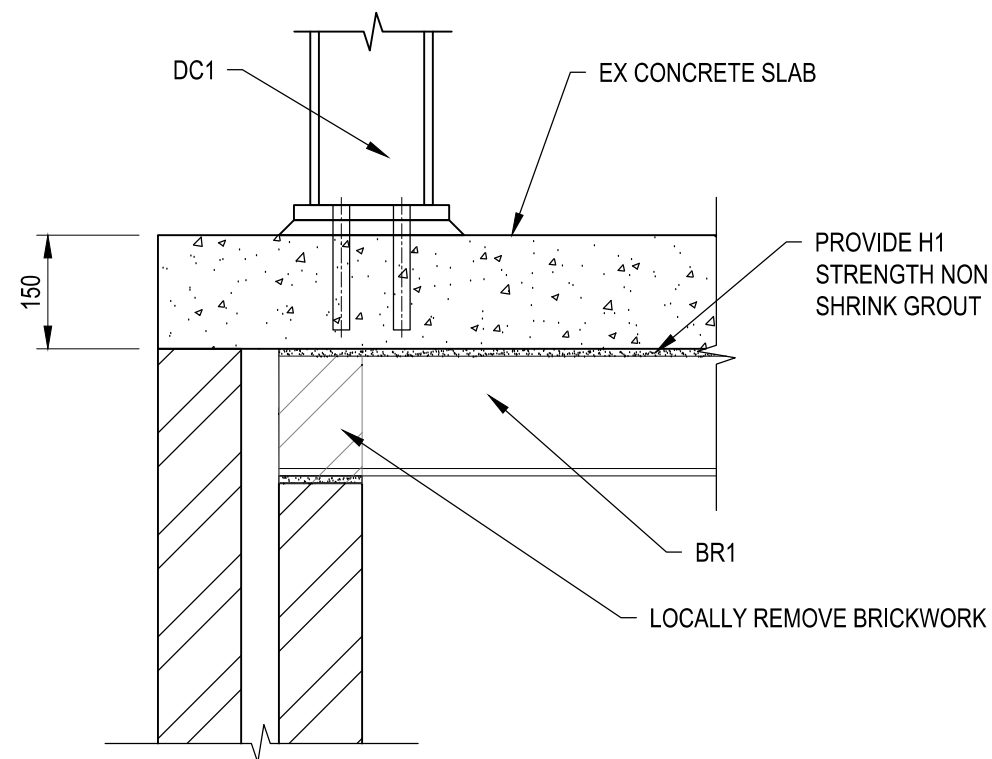
SECTION A  
SCALE 1:50



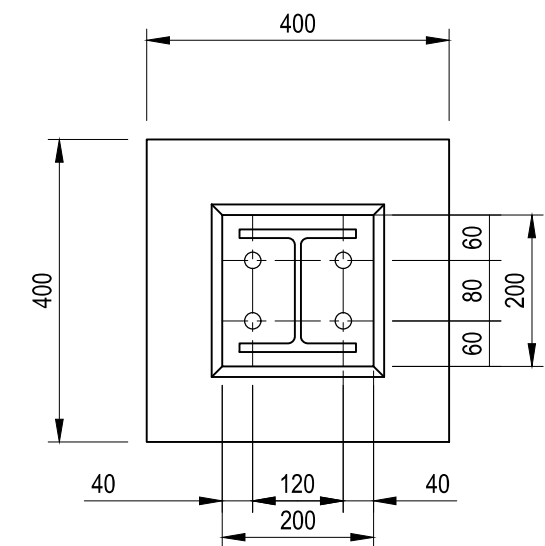
SECTION A1  
SCALE 1:10



SECTION A2  
SCALE 1:10

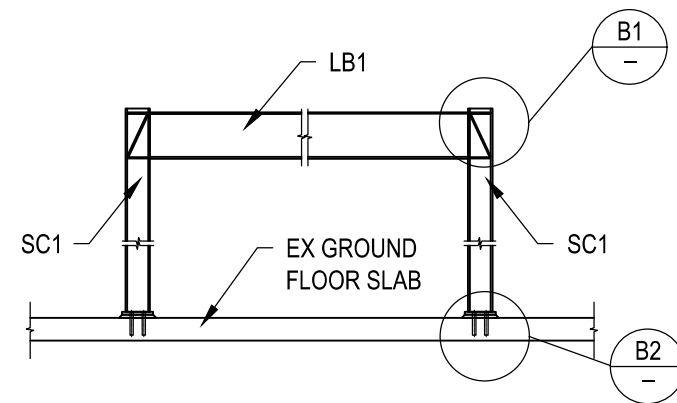


SECTION A3  
SCALE 1:10

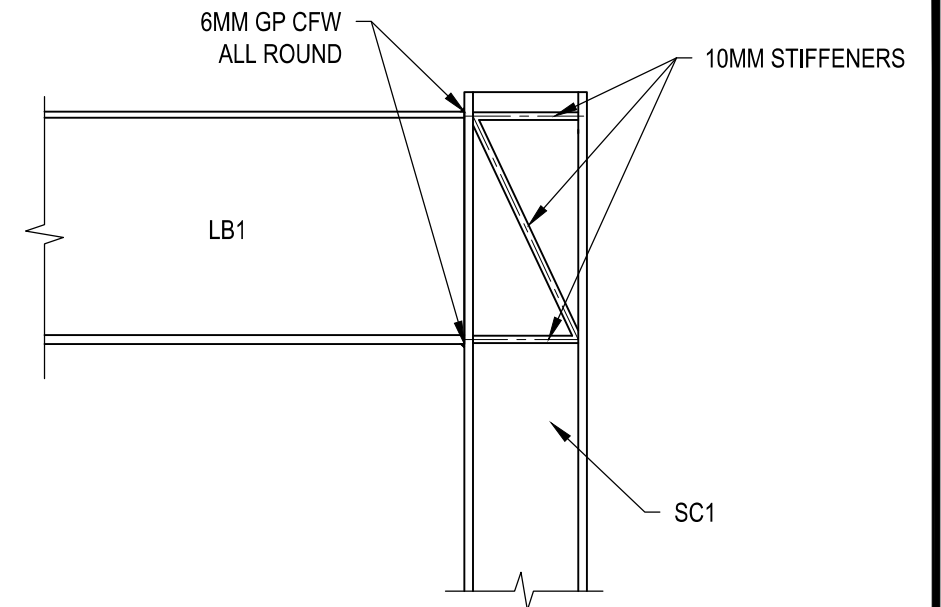


SECTION 1  
SCALE 1:10

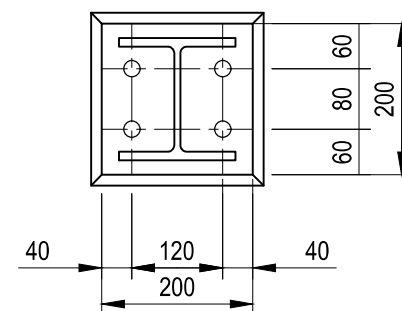
			Client	<div><div>GREENWOOD CONSULTING ENGINEERS</div></div> <div>2/25 Seabeach Avenue, Mona Vale eliot@greenwoodengineers.com.au ABN - 90 625 916 341</div>	Project	Drawn	Designed	Date
			Jess Tieu and James Harkin		2a BOLINGBROKE PARADE, FAIRLIGHT RESIDENTIAL ALTERATIONS AND ADDITIONS	BS	EG	20/10/2021
			Architect			Checked	Approved	Scale
			FE DESIGNS				EG	1:50; 1:10
A	ISSUE FOR APPROVAL	20/10/2021			Title	Drawing number		Revision
REVISION	AMENDMENT	DATE			SECTION A - DETAILS	2021237 - 003		A



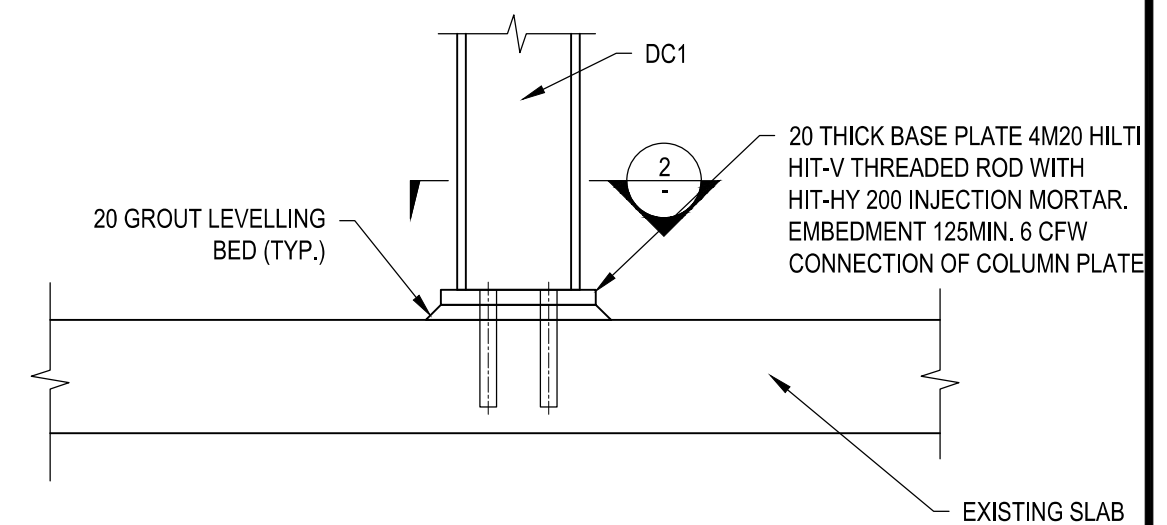
SECTION **B**  
SCALE 1:50 001



SECTION **B1**  
SCALE 1:10 -



SECTION **2**  
SCALE 1:10 -



SECTION **B2**  
SCALE 1:10 -

			Client Jess Tieu and James Harkin	 <b>GREENWOOD CONSULTING</b> ENGINEERS  2/25 Seabeach Avenue, Mona Vale eliot@greenwoodengineers.com.au ABN - 90 625 916 341	Project 2a BOLINGBROKE PARADE, FAIRLIGHT RESIDENTIAL ALTERATIONS AND ADDITIONS	Drawn BS	Designed EG	Date 20/10/2021
			Architect FE DESIGNS		Checked	Approved EG	Scale 1:50; 1:10	
A	ISSUE FOR APPROVAL	20/10/2021			Title SECTION B - DETAILS	Drawing number 2021237 - 004		Revision A
REVISION	AMENDMENT	DATE						