

[illegible]

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
GENERAL NOTES:																		
1	G1. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL ARCHITECTURAL AND OTHER CONSULTANTS DRAWINGS AND SPECIFICATIONS AND WITH SUCH OTHER WRITTEN INSTRUCTIONS AS MAY BE ISSUED DURING THE COURSE OF THE CONTRACT. ALL DISCREPANCIES SHALL BE REFERRED TO THE ARCHITECT/ENGINEER FOR DECISION BEFORE PROCEEDING WITH THE WORK.																	
2	G2. DIMENSIONS SHALL NOT BE OBTAINED BY SCALING THE STRUCTURAL DRAWINGS. G3. DO NOT SCALE FROM THESE DRAWINGS ANY DIMENSIONS SHOWN ARE IN MILLIMETRES G4. ALL DIMENSIONS MUST BE VERIFIED ON SITE AND ANY DISCREPANCY SHALL BE REFERRED TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK G5. SETTING OUT DIMENSIONS SHOWN ON THE DRAWINGS SHALL BE VERIFIED BY THE BUILDER. G6. DURING CONSTRUCTION THE STRUCTURE SHALL BE MAINTAINED IN A STABLE CONDITION AND NO PART SHALL BE OVERSTRESSED. G7. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT EDITIONS OF THE AS CODES AND THE BY-LAWS AND ORDINANCES OF THE RELEVANT BUILDING STATE AUTHORITY. NO MATERIAL CAN BE SUBSTITUTED WITH ANY NON AUSTRALIAN STANDARD COMPLYING MATERIAL. G8. THIS REPORT IS BASED ON INFORMATION SUPPLIED BY THE CLIENT. IF ANY ASPECT OF THE SITE PREPARATION OR PROPOSED CONSTRUCTION CHANGES FROM THAT ORIGINALLY ADVISED, THE ENGINEER MUST BE NOTIFIED SO THAT ANY NECESSARY AMENDMENTS CAN BE MADE. G9. DEVELOPMENT APPLICATION DECISION NOTICE - FOR WORK REQUIRING BUILDING APPROVAL, THE DEVELOPMENT APPLICATION DECISION NOTICE, ISSUED BY THE COUNCIL OR BUILDING CERTIFIER MUST BE FORWARDED TO US PRIOR TO ARRANGING ANY INSPECTIONS WITH THIS OFFICE. G10. THESE DRAWINGS MUST BE READ IN CONJUNCTION WITH ENGINEERING SPECIFICATIONS WHICH SHALL TAKE PRECEDENCE G11. ALL RELEVANT TRADES TO HAVE ACCESS TO ENGINEERING COMPUTATIONS G12. IT IS THE BUILDERS RESPONSIBILITY TO READ AND UNDERSTAND ALL NOTES PRIOR TO CONSTRUCTION G13. SUBSTITUTION OF ANY PART OF THE DRAWINGS RELEVANT TO THIS DESIGN ARE NOT PERMITTED WITHOUT APPROVAL OF STRUCETERRE. G14. ALL REFERENCED STANDARDS TO BE THE CURRENT VERSION AT TIME OF CONSTRUCTION G15. (a) LOAD BEARING WALLS ARE TO BE SHOWN ON PLAN IN FULL LINES AND SHADED (b) WET AREAS SHOWN SHADED (c) WALLS ON SUSPENDED SLAB SHOWN DASHED G16. ALL WORK TO CONFORM WITH THE PROVISIONS OF THE BUILDING CODE OF AUSTRALIA G17. ALL DETAILS TO BE CHECKED AND SITE MEASURED, AS REQUIRED, PRIOR TO ORDERING. CHECK ANY DISCREPANCIES WITH THE ENGINEER G18. UNDER NO CIRCUMSTANCE IS ANYTHING (INCLUDING BASKETBALL HOOPS) TO BE FIXED TO THE WALL ABOVE LINTELS. OWNERS TO BE NOTIFIED IN WRITING.																	
3	SITE CLASSIFICATION NOTES: C1. THIS REPORT HAS BEEN BASED UPON INFORMATION PROVIDED TO OUR OFFICE AND/OR GATHERED BY OUR STAFF. C2. THIS REPORT HAS BEEN PREPARED IN ACCORDANCE WITH AS 2870 AND RELEVANT STATE LEGISLATION. C3. SHOULD SOIL CONDITIONS ENCOUNTERED ON SITE DIFFER SIGNIFICANTLY FROM THOSE INDICATED IN THE SOIL TEST NOTED ABOVE, THE ENGINEER MUST BE NOTIFIED BEFORE PROCEEDING AS THE SITE CLASSIFICATION MAY NEED REVISING AND MODIFICATIONS TO THE DESIGN MAY BE REQUIRED. C4. THE SITE INVESTIGATION MAY BE RENDERED IRRELEVANT IF THE LOCATION OF PROPOSED STRUCTURES VARY FROM THAT SPECIFIED AT THE TIME OF THIS REPORT. THIS REPORT RELATES TO THE CONDITIONS EXISTING ON THE LAND AT THE TIME OF THE SITE INVESTIGATION. THIS REPORT IS BASED UPON THE PROPOSED CUT / FILL INFORMATION PROVIDED BY THE CLIENT. ANY UNADVISED EXTENSIVE CUTTING OR FILLING MAY RENDER THIS REPORT IRRELEVANT. C5. WHILE A REASONABLE EFFORT IS MADE TO ASSESS THE SITE'S SUITABILITY FOR THE PROPOSED CONSTRUCTION, THIS REPORT DOES NOT TAKE INTO ACCOUNT SLOPE STABILITY. IF REQUIRED BY THE COUNCIL, A SUITABLY QUALIFIED PERSON SHOULD BE ENGAGED TO UNDERTAKE A SLOPE STABILITY ASSESSMENT. C6. ALLOW BEARING CAPACITY PER ENGINEERS REPORT C7. ALL FOUNDATIONS MUST BE INSPECTED AND APPROVED BY THE RELEVANT BUILDING AUTHORITY PRIOR TO CONCRETE POUR																	
4	SITE CLASSIFIACION CONT:																	
5	C8. TOPSOIL CONTAINING GRASS ROOTS & ROOTS SHALL BE REMOVED FROM THE AREA ON WHICH THE SLAB IS TO BE PLACED C9. MOISTURE BARRIER - THE SLAB SHALL BE PROVIDED WITH A 200 MICRON THICK VAPOUR BARRIER WITH ALL LAPPS & PENETRATIONS TAPED & SEALED C10. ON LEVEL SITES THE MINIMUM HEIGHT OF THE SLAB ABOVE FINISHED GROUND LEVEL SHALL BE 150mm. THIS MAY BE REDUCED TO 50mm FOR PAVED AREAS DRAINING AWAY FROM THE BUILDING C11. CONCRETE - CONCRETE SHALL BE NOT LESS THAN 20MPa GRADE AT 28 DAYS WITH 20mm NOMINAL SIZE AGGREGATE & 80mm SLUMP C12. REINFORCEMENT - DESIGN COVER TO UNPROTECTED GROUND SHALL BE 40mm, 40mm TO EXTERNAL EXPOSURE & 30mm TO THE MEMBRANE IN CONTACT WITH THE GROUND. TRENCH MESH IN BEAMS SHALL BE OVERLAPPED THE WIDTH OF THE FABRIC AT "T & L" INTERSECTIONS. TRENCH MESH SHALL BE SPLICED WHERE NECESSARY BY A LAP OF 500mm. ALL FABRIC TO BE SUPPORTED ON BAR CHAIRS @ 1200mm MAX SPACING. C13. TRENCHES SHALL BE DE-WATERED & CLEANED PRIOR TO CONCRETE PLACEMENT. C14. ALL WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENT OF AS2870 RESIDENTIAL & FOOTINGS CODE & AS3600 CONCRETE STRUCTURES CODE C15. LEVELING FILLING - UP TO 600mm OF SANDY OR GRANULAR LEVELING FILLING MAY BE PLACED UNDER THE SLAB PANEL PROVIDED THIS IS PLACED IN ROUGHLY EQUAL LAYERS NOT MORE THAN 150mm IN DEPTH. LAYERS SHALL BE COMPACTED BY A VIBRATING PLATE COMPACTOR OR ROLLER OF SUITABLE WEIGHT & GIVEN SUITABLE NUMBER OF PASSES. C16. THE SLAB MAY REQUIRE LOCAL THICKENING AND ADDITIONAL REINFORCEMENT FOR REBATES, FOR SHOWERS OR RECESSES. C17. SLABS SHOULD BE GRADED TOWARDS DRAINAGE OUTLETS OR EXTERNAL DOORS C18. THE BASE OF A STRIP FOOTING SHALL BE HORIZONTAL OR A SLOPE OF NOT MORE THAN 1 IN 10. C19. CHIMNEY - FOUNDATIONS SHOULD ALLOW FOR AN INCREASE IN WIDTH TO THE CHIMNEY DIMENSIONS PLUS THE ADDITION OF AN EXTRA LAYER OF MESH TOP & BOTTOM MESH SHOULD EXTEND AT LEAST 500mm PAST THE EDGE OF THE CHIMNEY C20. FOOTINGS MAY REQUIRE LOCAL DEEPENING TO REACH THE FOUNDING MATERIAL LEAN MIX CONCRETE MAY BE USED TO FILL BEAM EXCAVATIONS UP TO THE MINIMUM BEAM DEPTH. IF BEAMS ARE POURED INSITU WITH THE INCREASED DEPTH, THE BEAM STEEL WILL REQUIRE DOUBLING THE AMOUNT. C21. LOAD BEARING EDGE & STIFFENING BEAMS ARE TO BE SUPPORTED ON NATURAL SOIL OR CONSOLIDATED GRANULAR FILL WITH AN ALLOWABLE BEARING CAPACITY OF NOT LESS THAN 90Kpa.SLAB PANELS SHOULD BE SUPPORTED ON SOILS WITH AN ALLOWABLE BEARING CAPACITY OF 50Kpa. THESE CONDITIONS APPLY UNLESS THE SLAB IS DESIGNED OTHERWISE. C22. NOTE IF FILL IS ENCOUNTERED UNDER NEW EDGE BEAMS, BEAMS WILL NEED TO BE LOCALLY DEEPEENED. FOR BEAMS GREATER THAN 500mm DEEP, ADD AN ADDITIONAL LAYER OF REINFORCEMENT C23. TERMITE PROTECTION TO SLAB, SLAB PENETRATIONS & PERIMETER AFTER LANDSCAPING TO MANUF SPECS. C24. ENSURE THAT THERE IS NOT A LIP OF MORE THAN 5mm AT THE MAIN ENTRY POINT TO THE RAMP(S) & FROM THE RAMP TO THE DOORS. RAMP GRADE MAX 1:40 C25. ALL REINFORCEMENT STEEL TO COME FROM A SUPPLIER CERTIFIED BY AUSTRALIAN CERTIFICATION AUTHORITY FOR REINFORCING BARS																	
6	DRAINAGE NOTES:																	
7	D1. ALL WORKMANSHIP AND MATERIAL SHALL BE IN ACCORDANCE WITH AS2870. D2. DRAINAGE SHALL BE CONSTRUCTED TO AVOID WATER PONDING AGAINST OR NEAR THE FOOTING. THE GROUND IN THE IMMEDIATE VICINITY OF THE PERIMETER FOOTING, INCLUDING THE GROUND UPHILL FROM THE SLAB ON CUT-AND-FILL SITES, SHALL BE GRADED TO FALL 50mm MINIMUM AWAY FROM THE FOOTING OVER A DISTANCE OF 1.0m. SURFACE OR SUBSURFACE DRAINS SHALL BE USED TO CHANNEL WATER AWAY AND CONNECT TO STORMWATER SYSTEM. ANY PAVING SHALL ALSO BE SUITABLY SLOPED. D3. PLUMBING TRENCHES SHALL BE SLOPED AWAY FROM THE HOUSE AND SHALL BE BACKFILLED WITH CLAY IN THE TOP 300mm WITHIN 1.5m OF THE HOUSE. THE CLAY USED FOR BACKFILLING SHALL BE COMPACTED. WHERE PIPES PASS UNDER THE FOOTING SYSTEM, THE TRENCH SHALL BE BACKFILLED WITH CLAY OR CONCRETE TO RESTRICT THE INGRESS OF WATER BENEATH THE FOOTING SYSTEM. D4. EXCAVATIONS NEAR THE EDGE OF THE FOOTING SYSTEM SHALL BE BACKFILLED IN SUCH A WAY AS TO PREVENT ACCESS OF WATER TO THE FOUNDATION. FOR EXAMPLE, EXCAVATIONS SHOULD BE BACKFILLED ABOVE OR ADJACENT THE FOOTING WITH MOIST CLAY, COMPACTED BY HAND-RODDING/TAMPING. POROUS MATERIAL SUCH AS SAND, GRAVEL OR BUILDING RUBBLE SHOULD NOT BE USED. D5. WATER RUN-OFF SHALL BE COLLECTED AND CHanneled AWAY FROM THE HOUSE DURING CONSTRUCTION. D6. PENETRATIONS OF THE EDGE BEAMS AND FOOTING BEAMS ARE TO BE AVOIDED, BUT WHERE NECESSARY SHALL BE SLEEVED TO ALLOW FOR MOVEMENT. D7. CONNECTION OF STORMWATER DRAINS AND WASTE DRAINS SHALL INCLUDE FLEXIBLE CONNECTIONS. D8. ADDITIONAL PLUMBING REQUIREMENTS ARE NEEDED FOR MODERATELY, HEAVILY & EXTREMELY REACTIVE SITES IN ACCORDANCE WITH CLAUSE 6.6 (F) FROM AS 2870. D9. PLUMBING & DRAINAGE UNDER THE SLAB SHOULD BE AVOIDED WHERE PRACTICAL (REFER AS/NZS 3500 CLAUSE 4.10) D10. ALL PIPEWORK INCLUDING STORMWATER FITTINGS & ADAPTERS SHOULD BE PROTECTED FROM MECHANICAL DAMAGE. D11. BUILDER TO ENSURE THAT THE CLIENT BE INFORMED OF NECESSITY TO MAINTAIN DRAINS IN GOOD ORDER AT ALL TIMES D12. PROVISIONS SHOULD BE MADE FOR THE CONNECTION OF OVERFLOW OR WATER DISCHARGE FROM FIXTURES SUCH AS HOT WATER SYSTEMS & AIR CONDITIONERS TO A DRAIN AS REQUIRED BY THE RELEVANT LOCAL AUTHORITY.																	
8	PROPERTY MAINTENANCE NOTES:																	
9	P1. THIS DESIGN IS BASED UPON THE NORMAL FOOTING PERFORMANCE CRITERIA PROVIDED IN TABLE 2.2 OF AS2870-2011 WITH DAMAGE CATEGORIES DETAILED IN APPENDIX C. IF THESE PERFORMANCE CRITERIA IS UNSUITABLE FOR THIS DWELLING PLEASE CONSULT THIS OFFICE FOR ADDITIONAL ENGINEERING ADVISE AND DESIGN SERVICES. P2. THE OWNER'S ATTENTION IS DRAWN TO APPENDIX B 'PERFORMANCE CRITERIA AND FOUNDATION MAINTENANCE' AND APPENDIX C 'CLASSIFICATION OF DAMAGE DUE TO FOUNDATION MOVEMENTS' OF AS 2870-2011. P3. WE ALSO DIRECT THE OWNER TO THE CSIRO PUBLICATION BTF 18 'FOUNDATION MAINTENANCE AND FOOTING PERFORMANCE: A HOMEOWNER'S GUIDE'. COPIES OF THIS PUBLICATION ARE AVAILABLE FROM CSIRO PUBLISHING ON PH: 1300-788-000 OR AT http://www.publish.csiro.au/nid/18/pid/3612.htm. THIS REPORT MAY BE RENDERED INVALID IF THE PROPERTY IS NOT MAINTAINED AS RECOMMENDED IN THIS PUBLICATION. P4. THE LONG TERM PERFORMANCE OF DWELLING FOOTINGS IS DEPENDANT ON FACTORS SUCH AS SITE DRAINAGE, VEGETATION AND WATERING OF AREAS ADJACENT TO THE DWELLING. P5. WATERING OF LAWNS AND GARDENS SHOULD BE CONSISTENT. OVER WATERING CAN DAMAGE FOOTINGS. EQUALLY FOOTINGS MAY BE DAMAGED BY PROLONGED PERIODS OF NEGLECT AFTER YEARS OF CAREFUL WATERING. LEAKING TAPS AND PIPES AND BLOCKED DRAINS SHOULD BE REPAIRED PROMPTLY. PROLONGED NEGLECT CAN LEAD TO DAMAGED FOOTINGS. P6. THE RECOMMENDED DISTANCE THAT A NEW TREE SHOULD BE LOCATED FROM A DWELLING WOULD BE EQUAL TO OR GREATER THAN 75% OF THE MATURE HEIGHT FOR CLASS M SITES. 100% OF THE MATURE HEIGHT FIR H1 & H2 SITES. 150% OF THE MATURE HEIGHT FOR CLASS E SITES UNLESS STATED OTHERWISE IN THE SOIL REPORT																	
10	ARTICULATED MASONRY NOTES:																	
	A1. THIS DESIGN ASSUMES THAT MASONRY ARTICULATION JOINTS WILL BE INSTALLED UNLESS NOTED OTHERWISE ON FOOTING & SLAB PLAN. ANY MASONRY ARTICULATION JOINTS SHALL BE POSITIONED IN ACCORDANCE WITH TECHNICAL NOTE 61 PRODUCED BY CEMENT CONCRETE & AGGREGATES AUSTRALIA AND AS 3700 SECTION 12.16.4. REFER TO TABLE BELOW FOR MAXIMUM SPACING AND MASONRY ARTICULATION PLAN (IF PROVIDED) FOR SPECIFIC LOCATIONS AND DETAILS FOR RENOVATIONS OR EXTENSIONS TO EXISTING STRUCTURES. A2. MASONRY ARTICULATION JOINTS SHALL BE POSITIONED WHERE EVER NEW BRICKWORK MEETS OLD BRICKWORK. A3. WHERE MASONRY ARTICULATION IS SHOWN BESIDE OPENINGS WITH BRICKWORK ABOVE THE OPENING, CARE SHOULD BE TAKEN TO PROVIDE A SLIP JOINT AROUND THE END OF THE LINTEL. A4. WHERE MASONRY ARTICULATION IS SHOWN BESIDE OPENINGS, THE JOINT IS TO CONTINUE BETWEEN THE WINDOW/DOOR FRAME AND THE BRICKWORK TO THE FULL HEIGHT OF THE WALL. AT THESE LOCATIONS, THE FRAMES ARE TO BE FIXED WITH FASTENERS THAT WILL ALLOW MOVEMENT OF THE JOINT.																	
	FOUNDATIONS AND FOOTINGS:																	
	F1. REMOVE ALL TOP SOIL, VEGETATION AND DELETERIOUS FILL MATERIAL FROM THE BUILDING AREA F2. DRAIN ROOF AND SURFACE WATER AWAY FROM FOOTINGS. F3. ALL FILLING TO BE COMPACTED IN WELL WATERED 300mm LAYERS USING CLEAN WELL GRADED SAND TO PROVIDE STANDARD PENETROMETER READINGS OF 7 BLOWS PER 300mm. COMPACT BOTTOMS OF ALL FOOT																	

1 ALL MASONRY SHALL COMPLY WITH AS 3700. MORTAR TO BE M3 EXCEPT PROJECTS LOCATED  
2 WITHIN 1km OF THE OCEAN MORTAR TO BE M4 CLASSIFICATION. CEMENTS OTHER THAN TYPE  
3 GP PORTLAND CEMENT & 100% WHITE PORTLAND CEMENT SHALL NOT BE USED.  
4 ALL WALLS SUPPORTING SUSPENDED SLAB TO HAVE A MINIMUM CHARACTERISTIC UNCONFINED  
5 COMPRESSIVE STRENGTH FOR MASONRY UNIT OF 12MPa IN ACCORDANCE WITH AS3700.  
6 BUILDER TO ASSESS ALL HORIZONTAL CHASING TO ENSURE THAT STRUCTURE  
7 IS NOT JEOPARDIZED. CONTACT THE ENGINEER IF UNSURE.  
8 U.N.O. LINTELS FOR LOWER WALLS OF TWO STOREY SECTIONS TO BE:

OPENING	LINTEL	MIN END BEARING
UP TO 1200mm	100 x 75 x 8.0 UA	150mm
UP TO 1800mm	100 x 100 x 8.0 EA	200mm
UP TO 2800mm	150 x 90 x 8.0 UA	250mm
UP TO 3300mm	150 x 100 x 10.0 UA	250mm

OPENING	METAL ROOF			
	EFFECTIVE ROOF LOAD WIDTH			
	3600mm		6600mm	
	LINTEL	MIN END BEARING	LINTEL	MIN END BEARING
UP TO 1500mm	75 x 75 x 6.0 FA	100mm	75 x 75 x 6.0 FA	100mm
UP TO 2000mm	75 x 75 x 8.0 FA	100mm	90 x 90 x 6.0 FA	150mm
UP TO 2200mm	100 x 100 x 6.0 FA	250mm	125 x 75 x 6.0 UA	150mm
UP TO 2400mm	100 x 100 x 8.0 FA	250mm	125 x 75 x 8.0 UA	165mm
UP TO 2700mm	125 x 75 x 8.0 UA	200mm	125 x 75 x 10.0 UA	180mm
UP TO 3000mm	125 x 75 x 10.0 UA	250mm	150 x 90 x 8.0 UA	200mm
UP TO 3300mm	150 x 90 x 8.0 UA	250mm	150 x 100 x 10.0 UA	250mm

- (b) LOCATE @ 2c CENTRES MAX AT CROSS WALLS TIED TO THE INTERNAL WALLS OR INTERNAL LEAF OF EXTERNAL WALLS
- (c) LOCATE @ 300 CENTRES HORIZONTALLY AT BED JOINTS TO BOTTOM AND TOP OF EXTERNAL LEAFS
- (d) LOCATE @ 300 CENTRES HORIZONTALLY AT BED JOINTS IMMEDIATELY ABOVE SLABS TO EXTERNAL LEAFS

THE PRESENCE OF GROUND WATER WITH SURFACE SOIL MAY LEAD TO CONSTRUCTION DIFFICULTIES DURING WET WEATHER. ATTENTION TO SITE GRADING/DRAINAGE WILL BE REQUIRED FROM THE START OF CONSTRUCTION. THE SITE SHOULD BE GRADED OR DRAINED SO THAT WATER CANNOT POND AGAINST OR NEAR THE FOOTINGS. WATER RUN-OFF SHALL BE COLLECTED AND CHanneLED AWAY FROM THE HOUSE DURING CONSTRUCTION

C1 ALL CONCRETE SHALL BE IN ACCORDANCE WITH THE CONCRETE STRUCTURES  
C2 CODE AS 3600. BLENDED CEMENT (TYPE GB) SHALL CONFORM WITH AS 3972.  
C3 REFER TO CONCRETE TABLE FOR COMPRESSIVE STRENGTH AND SLUMP VALUES.  
C4 ALL GALVANIZED ITEMS WHICH ARE CAST INTO CONCRETE ARE TO BE PASSIVATED  
C5 IN A 0.2% SODIUM DICHROMATE SOLUTION OR EQUIVALENT.  
C6 UNLESS OTHERWISE SHOWN, CONSTRUCTION JOINTS IN CONCRETE SHALL ONLY  
C7 BE MADE WITH THE APPROVAL OF THE ENGINEER.  
C8 PROVIDE TWO LAYERS OF PGI OVER SLAB LOADED WALLS EXCEPT RETAINING  
C9 WALLS. BEAR ON TOP OF CLEAN BRICKWORK FOR TOP OF RETAINING WALLS.  
C10 ALL CONCRETE WALLS SHALL BE PLACED CONTINUOUSLY BY APPROVED METHODS AFTER  
C11 PLACING, FOR PERIODS SHOWN IN CONCRETE TABLE.  
C12 ALL SUSPENDED FLOOR CONCRETE SHALL BE WELL COMPACTED BY MEANS OF  
C13 IMMERSION TYPE VIBRATORS.  
C14 ALL FORMWORK SHALL BE RIGIDLY CONSTRUCTED OF APPROVED MATERIAL  
C15 FORMWORK AND SUPPORTS SHALL BE DESIGNED TO WITHSTAND ALL POSSIBLE  
C16 LOAD COMBINATIONS DURING CONSTRUCTION.  
C17 SUSPENDED CONCRETE WITH CONVENTIONAL FORMWORK:

- (a) SLAB TO BE KEPT PROPPED FOR A MINIMUM 21 DAYS AFTER CONCRETE POUR. REFER TO "AT DE-PROP" NOTE BELOW.
- (b) SLAB MAY BE STRIPPED 7 DAYS AFTER CONCRETE POUR. ENSURE ADEQUATE PROPS MAINTAINED DURING STRIPPING STAGE, TO ENSURE FULL SUPPORT FOR THE SLAB DURING CONSTRUCTION. DO NOT DEPROP AS A WHOLE WHEN STRIPPING THE SLAB MAY BE LOADED WITH CONSTRUCTION MATERIALS WHILE PROPPED. THE MATERIALS SHOULD, WHERE POSSIBLE, BE PLACED OVER WALLS OR OTHER SUPPORTS BELOW.
- (d) DO NOT BUILD MASONRY WALLS OVER THE SLAB UNTIL IT HAS BEEN COMPLETELY DE-PROPPED.

C10 POUR COLUMNS BEFORE BEAMS AND SLABS. POUR BEAMS AND SLABS MONOLITHICALLY.

C11 ALL PIPES/CONDUITS IN SUSPENDED SLABS ARE TO BE INSTALLED AS FOLLOWS:

- (a) MAX BUNDLE SIZE TO BE Ø100mm.
- (b) SPACING BETWEEN SINGLE OR BUNDLED CONDUITS/PIPES TO BE MIN 1.5 TIMES THE LARGER BUNDLE DIAMETER.

C12 THIS DESIGN IS NOT SUITABLE FOR A POLISHED (OR HONED) CONCRETE FINISH UNLESS SPECIFICALLY STATED ON THE FLOOR PLANS. SHOULD SUCH FINISHES BE REQUIRED, THIS DESIGN SHOULD BE REFERRED BACK TO THIS OFFICE FOR CONSIDERATION.

CONCRETE TABLE					
LOCATION	CONCRETE	AT DE-PROP	TYPE OF CEMENT	COVER TO REINF'	MIN CURING TIME
GROUND SLAB	N20/20/100	-	GB OR GP	30	3 DAYS
FOOTINGS	N20/20/100	-	GB OR GP	70	3 DAYS
FILL CONCRETE	N20/10/100	-	GB OR GP	N / A	3 DAYS
SUSPENDED SLAB INT.	N40/20/80 U.N.O.	40 MPa U.N.O.	GP ONLY	20 U.N.O.	7 DAYS
SUSPENDED SLAB EXT.	N40/20/80	40 MPa	GP ONLY	30 U.N.O.	7 DAYS
BEAMS INTERNAL	N40/20/80	40 MPa	GP ONLY	20 U.N.O.	7 DAYS
BEAMS EXTERNAL	N40/20/80	40 MPa	GP ONLY	30 U.N.O.	7 DAYS

**AT DE-PROP (PRIOR TO 28 DAYS):** REFERS TO MINIMUM CONCRETE COMPRESSIVE STRENGTH REQUIREMENT BEFORE THE REMOVAL OF ALL PROPS AND/OR APPLICATION OF LOADS.  
CONCRETE COMPRESSIVE STRENGTH MUST BE CONFIRMED BY TESTING IN STRICT ACCORDANCE WITH ASTM12.9 PRIOR TO DE-PROP.

S1	(a) ALL FABRICATION, TOLERANCES AND ERECTION OF STEELWORK TO BE IN ACCORDANCE WITH AS4100 - STEEL STRUCTURES CODE. MINIMUM WELD TO BE 6mm FILLET
	(b) ALL HOLLOW SECTIONS (CHS, RHS, SHS) SHALL COMPLY WITH AS 1163 - STRUCTURAL STEEL HOLLOW SECTIONS
	(c) ALL COLD FORMED SECTIONS OTHER THAN THOSE COMPLYING TO AS 1163, TO BE MANUFACTURED FROM CONTINUOUS GALVANISED SHEET STEEL (GSS) CONFORMING TO AS 1397
S2	(a) ALL WELDING SHALL BE MINIMUM WELD CATEGORY SP (STRUCTURAL PURPOSE) IN ACCORDANCE WITH AS1554 - PT 1 - WELDING OF STEEL STRUCTURES.
	(b) WHERE BOTH PLATES TO BE WELDED ARE GREATER THAN 2.5mm THICK, THE MINIMUM WELD IS TO BE 6mm FILLET.
	(c) WHERE EITHER OF THE PLATES TO BE WELDED ARE LESS THAN 2.5mm THICK, WELDING SHALL BE BY THE METAL INERT GAS TECHNIQUE (MIG) CONFORMING TO AS 1554
S3	ALL COLUMN BASE PLATES SHALL BE SET ON 20mm MIN OF 1:2 CEMENT AND SAND GROUT
S4	ALL STEELWORK (INCLUDING FASTENERS) TO BE TREATED IN ACCORDANCE WITH CLAUSE 3.4.4.4 "CORROSION PROTECTION" OF THE BUILDING CODE OF AUSTRALIA
S5	SLAY STEEL BEAMS (WHERE REQUIRED) TO SUIT ROOF PITCH. MIN END HEIGHT TO BE 60mm.
S6	ALL BOLTS SHALL BE IN ACCORDANCE WITH AS 1252 AND BE CADMIUM PLATED OR GALVANISED, U.N.O.
S7	PROVIDE HOLES OR FIXING CLEATS FOR OTHER TRADES AS DIRECTED IN THE SPECIFICATION OR SHOWN ON THE ARCHITECTURAL DRAWINGS
S8	STEEL TO STEEL CONNECTION TO BE VIA 10 PL CLEAT FULLY WELDED TO WEB OF CONTINUOUS STEEL BEAM FIX INTERSECTING STEEL BEAM TO CLEAT VIA 2-M16 BOLTS
S9	U.N.O. ALTERNATIVELY, STEEL BEAM MAY BE FULLY WELDED U.N.O.
S10	STEEL TO TIMBER CONNECTION TO BE VIA 10PL END PLATE FULLY WELDED TO END OF STEEL BEAM. FIX END PLATE TO TIMBER BEAM VIA 4M16 BOLTS U.N.O. (MAXIMUM SIZE OF STEEL BEAM TO BE 180UB16).
S11	SEAL ALL OPEN ENDS OF PIPES OR RHS MEMBERS. GRIND OFF ALL VISIBLE WELDS AND BRAND MARKS TO A NEAT APPEARANCE WHERE SPECIFIED
S12	(a) THE CONTRACTOR SHALL REMAIN RESPONSIBLE AT ALL TIMES FOR PROVIDING ALL NECESSARY TEMPORARY BRACING AND OTHER SUPPORTS DURING ERECTION, TO STABILISE THE PARTIALLY CONSTRUCTED BUILDING
	(b) PARTICULAR ATTENTION MUST BE PAID TO THE BUCKLING STABILITY OF BEAMS AND COLUMNS PRIOR TO THE CONNECTION OF PURLINS, GIRTS, FLYBRACES AND OTHER BRACING ELEMENTS
	(c) IT IS THE RESPONSIBILITY OF THE BUILDER TO OBTAIN PROPER TECHNICAL ADVICE WHEREVER NECESSARY TO ENSURE THE PARTIALLY COMPLETED STRUCTURE IS SAFE FROM COLLAPSE
S13	(a) MASONRY AND CONCRETE WILL GENERALLY NOT BE CONSIDERED AS A SUITABLE ALTERNATIVE TO CAST-IN FERRULES EXCEPT AS SPECIFICALLY NOTED ON THE DRAWINGS
	(b) ALL MASONRY AND CONCRETE ANCHORS SHALL BE INSTALLED STRICTLY IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS, THE BUILDER MUST ENSURE THE ANCHOR LENGTH IS ADEQUATE TO ENSURE CORRECT EMBEDMENT, BEARING IN MIND THE THICKNESS OF THE PART BEING FASTENED. ALL ANCHORS FOUND TO BE INSTALLED INCORRECTLY WILL BE REJECTED
S14	THE INSTALLATION OF STATIC SAFETY LINE POINTS (WHERE REQUIRED BY THE RELEVANT AUTHORITIES) SHALL BE THE BUILDERS RESPONSIBILITY
S15	ALL STEEL TREATMENT TO BE IN ACCORDANCE WITH TABLE 3.4.4.2 OF THE NCC (VOLUME 2) CURRENT VERSION AND AS 2312 AS A MINIMUM OR AS PER ARCHITECTS / BUILDERS FURTHER SPECIFICATION. ALL HOLDING DOWN BOLTS TO BE HOT DIP GALVANISED (600g/sqM) U.N.O. EPOXY COAT ALL STEELWORK BELOW GROUND LEVEL.
S16	ALL DISSIMILAR METAL CONTACT TO BE ELECTRICALLY ISOLATED BY USE OF NON-CONDUCTIVE LOAD BEARING SPACERS TO MANUFACTURERS SPECIFICATIONS
S17	ALL SITE WELDS TO BE MINIMUM 6mm CONTINUOUS FILLET WELDS UNO. PROPERLY CLEANED AND PREPARED BEFORE WELDING. POWER TOOL CLEAN TO BE CLASS 2 FOLLOWING WELDING AND PAINT WITH 2 COATS OF ZINC RICH PAINT AND TOP COAT TO MATCH EXISTING
S18	BOLTS UNLESS UNO TO BE MIN GRADE 8.8/S
S19	ALL STEELWORK OTHER THAN THAT ENCASED BY CONCRETE AND MATING SURFACES OF FRICTION GRIP BOLT CONNECTIONS SHALL BE GIVEN ONE COAT OF APPROVED STEEL PRIMING PAINT
S20	CAMBER TO STRUCTURAL STEEL ROOF/ BEAMS, TRUSSES, PORTALS ETC TO BE 3mm FOR EVERY METRE OF SPAN UNO
S21	ALL STEEL STRUCTURES & FRAMES ARE TO BE ADEQUATELY PROPPED & BRACED IN ALL DIRECTIONS BY THE BUILDER, DURING CONSTRUCTION UNTIL ALL PERMANENT WALL & ROOF BRACING IS IN PLACE
S22	STEEL MEMBERS TO BE GRADE 300+ (U.N.O)
S23	ALL EXTERNAL STEEL LINTELS TO BE COATED WITH A RUST INHIBITIVE ALKYD PRIMER OR EQUIVALENT
S24	ALL BRICK LINTELS TO BE PROPPED AT MID-SPAN UNTIL BRICKWORK OVER IS A MINIMUM OF 3 DAYS OLD

R1	REINFORCEMENT SHALL BE IN ACCORDANCE WITH THE FOLLOWING STANDARDS; R INDICATES PLAIN REINFORCING BAR R250N TO AS/NZS 4671. L INDICATES PLAIN OR DEFORMED WIRE R500L OR D500L TO AS/NZS 4671. RL INDICATES DEFORMED RECTANGULAR MESH D500RL TO AS/NZS 4671. SL INDICATES DEFORMED SQUARE MESH D500L TO AS/NZS 4671. N INDICATES DEFORMED BARS D500N TO AS/NZS 4671. S INDICATES DEFORMED BARS D250N TO AS/NZS 4671.
R2	REINFORCEMENT SHALL BE PLACED WITH ACCURATE COVER AS PER CONCRETE TABLE. ALL SUSPENDED FLOOR REINFORCEMENT SHOULD BE INSPECTED AND APPROVED BY THE ENGINEER BEFORE COMMENCEMENT OF THE POUR.
R3	(a) MAIN REINFORCEMENT IN CONVENTIONALLY REINFORCED SLABS SHALL NOT BE

(c) MESH TO BE LAPPED AS SHOWN IN FIGS.

"Approved Plans and Documentation"



**Permit No.: 20150189/0**  
**Issue Date: 25/02/2015**

  
Ari Akritidis  
BS-U 1573  
INSPECTION BOOKING

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Unit Trust trading as Strueterre Consulting Engineers  
3 Codrington, Cranbourne, Victoria, 3977  
TEL (03) 5996 2555 - EMAIL: melbourne@strueterre.com.au

TITLE	DATE	BY	NO.	PRICE	REMARKS
...	...	...	...	...	...

## NOTES

STATUS	
ISSUED FOR CONSTRUCTION	
SCALE	
1:100	
DRAWING REF. No.	REV
F14190-S-002	A

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# STEEL SURFACE TREATMENT

TABLE 1 LEVELS OF SURFACE TREATMENT

Structure site in:		
Distance From Source of Corrosion: Ocean OR Heavy industrial area	Protected Position *	Exposed Position
Over 3 km	Level 1	Level 1
1.5 - 3 km	Level 1	Level 2
0.75 - 1.5 km	Level 2	Level 3
Within 0.75 km	Level 3	Level 3
Salt-water bay		
Over 1.5 km	Level 1	Level 1
0.75 - 1.5 km	Level 1	Level 2
Within 0.75 km	Level 2	Level 2

\* A protected position is one that is more than 0.5 km from the nearest location that is in line of sight of the source of corrosion Figure 1.

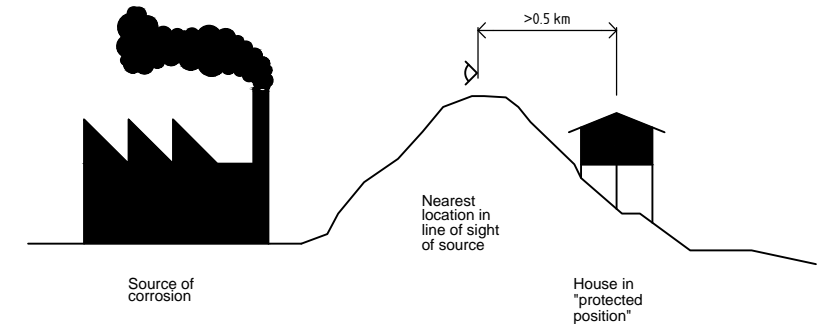


Figure 1  
Definition of a 'protected position'

TABLE 2 SURFACE TREATMENT TYPE

Level of corrosion potential			
Degree of Enclosure	Level 1	Level 2	Level 3
Enclosed	A	B	C
Unenclosed	B	C	D

steelwork within 2M of full height openings to be treated as unenclosed

full height openings to be not more than 3M wide

Total area of all openings (including unfixed windows) to be more than 8.3% (1/12)

Figure 2  
Maximum extent of openings in masonry walls for steelwork to be deemed to be 'enclosed'

TABLE 3 TREATMENT REQUIRED TO ACHIEVE REQUIRED SURFACE TREATMENT TYPE

Surface Treatment Type	Black Steel	Galvanised Steel
A	No protection required	No additional protection required
B	Remove loose scale by hand or power wire brushing Paint with one coat of a rust inhibitive alkyd primer or equivalent	No additional protection required
C	Prepare surface by power wire brushing or abrasive grit blasting. Apply one coat of a rust inhibitive alkyd primer, followed by one finish coat of all-weather gloss acrylic paint	No additional protection required
D	Prepare surface by abrasive grit blasting or pickling (class 2 1/2) followed by one of the following: + Apply one coat of an inorganic zinc silicate, followed by one coat of all-weather gloss acrylic with UV protector + Hot dip galvanising + Epoxy high corrosion-resistant system or equivalent	Apply primer coat followed by a finish coat, both of zinc dust or zinc oxide type. Both coats may either be brushed or sprayed. In the case of decking, the treatment should be applied to the underside before installation.

\* Note: For lintels supporting masonry some building authorities may require a higher level of surface treatment

## SURFACE TREATMENT - STEEL

- P1 THOROUGHLY DEGREASE TO REMOVE ALL OIL, GREASE AND OTHER SURFACE CONTAMINANTS, REMOVE ALL RUST AND ANY LOOSE MATERIAL BY WIRE BRUSH OR MECHANICAL DEVICE
- P2 APPLY PRIMER DIRECTLY TO SUITABLY PREPARED SURFACES. DO NOT APPLY OVER PREVIOUS COATINGS SYSTEMS (THESE MUST BE REMOVED) PRIOR
- P3 PRIMER & FINISHED COATING TO BE APPLIED AS PER MANUF SPECS.
- P4 ENSURE ALL SURFACE STEEL INCLUDING WELDS ARE ADEQUATELY COVERED WITH PRIMER AND FINISHED COATING
- P5 ENSURE WORK AREA IS ADEQUATELY VENTILATED

Akritidis Group Building Consultants  
"Approved Plans and Documentation"



Permit No.: 20150189/0  
Issue Date: 25/02/2015

  
Ari Akritidis  
BS-U 1573

PROJECT

PROPOSED DWELLING  
4 FLORIDA AVE  
BEAUMARIS, VIC

STATUS

ISSUED FOR CONSTRUCTION

SCALE

1:100

DRAWING REF. No.

F14190-S-003

REV

A

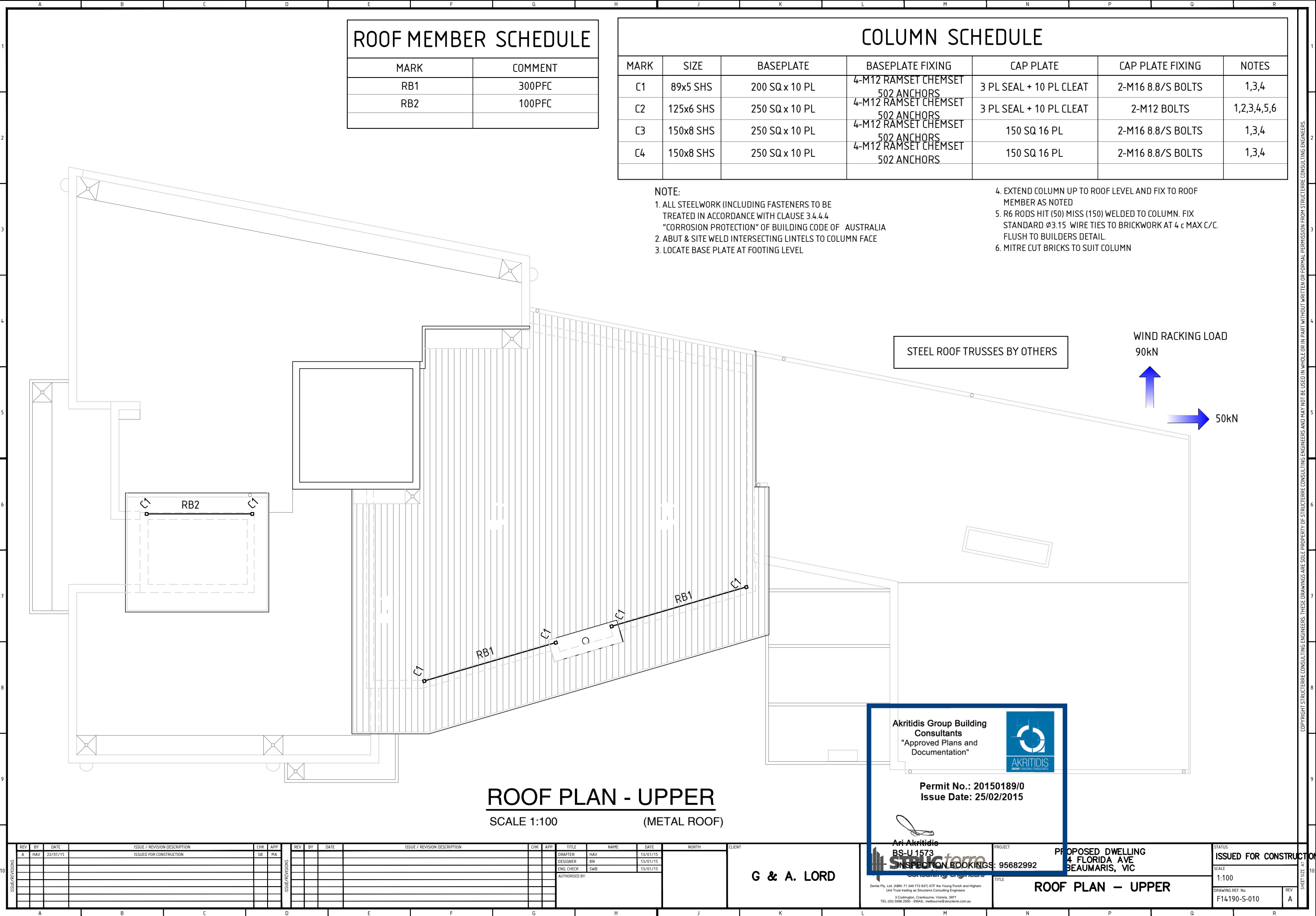
INSPECTION BOOKINGS: 95682992

Consulting Engineers

G & A. LORD

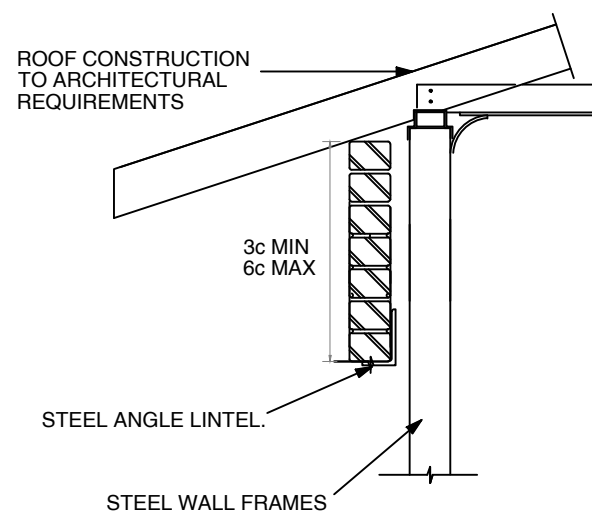
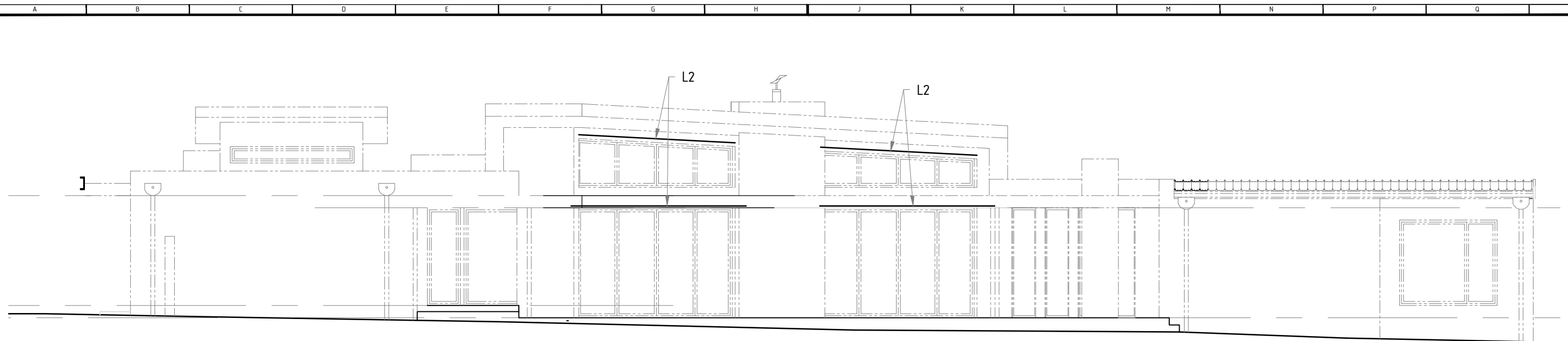
1 Collingwood, Melbourne, Victoria, 3007  
TEL (03) 9596 2555 - EMAIL: melbourne@structerre.com.au

REV	BY	DATE	ISSUE / REVISION DESCRIPTION	CHK	APP	REV	BY	DATE	ISSUE / REVISION DESCRIPTION	CHK	APP	TITLE	NAME	DATE	NORTH	CLIENT	PROJECT	STATUS
A	HAV	22/01/15	ISSUED FOR CONSTRUCTION	SB	MA							DRAFTER	HAV	13/01/15				ISSUED FOR CONSTRUCTION
												DESIGNER	BN	13/01/15				
												ENG CHECK	SWB	13/01/15				
												AUTHORISED BY:						



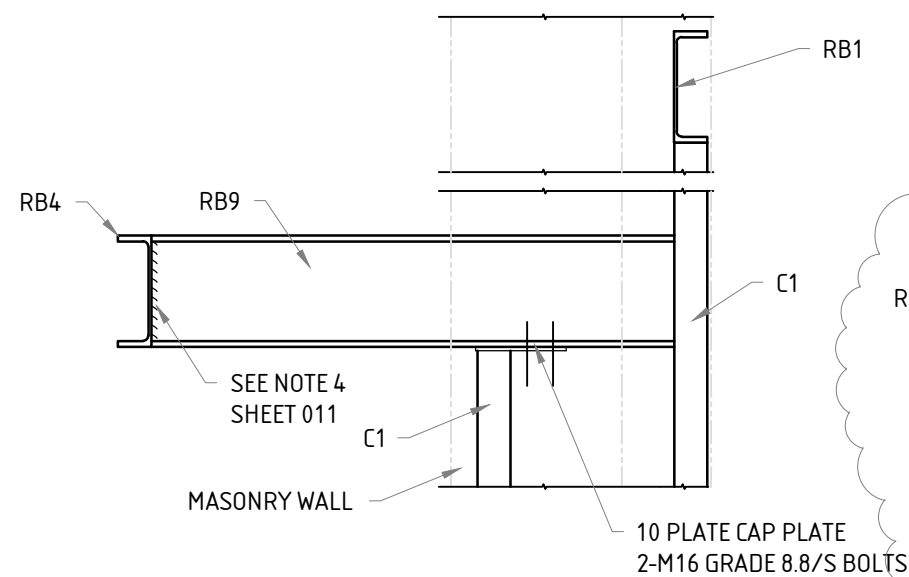






## BRICK VENEER LINTEL DETAIL 1:20

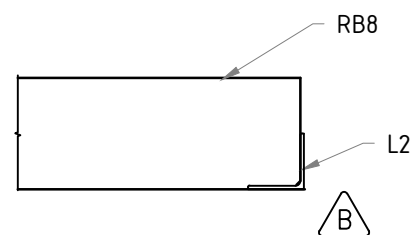
1. THIS DETAIL IS TO PROVIDE LINTEL SIZES ONLY FOR SINGLE STOREY BUILDINGS.
2. LINTELS ARE DESIGNED TO SUPPORT UP TO MIN 3c AND MAX 7c OF BRICK WORK.
3. DO NOT SUPPORT ROOF STRUTTING BEAMS OR OTHER POINT LOADS OVER THE LINTEL.
4. A BRICK COURSE, AS REFERRED TO IN THIS DOCUMENT IS STANDARD 86mm HIGH.
5. IT IS PERMISSIBLE TO ADJUST THE SPAN BY ROUNDING TO THE NEAREST BRICK LENGTH, SUBJECT TO BEING NO MORE THAN 10mm.
6. WHERE LINTEL BEARS ON PERPENDICULAR BRICKWORK, BEARING IS TO BE ACROSS THE FULL WIDTH OF THE BRICK (90mm MIN).



## B SECTION

## SECTION

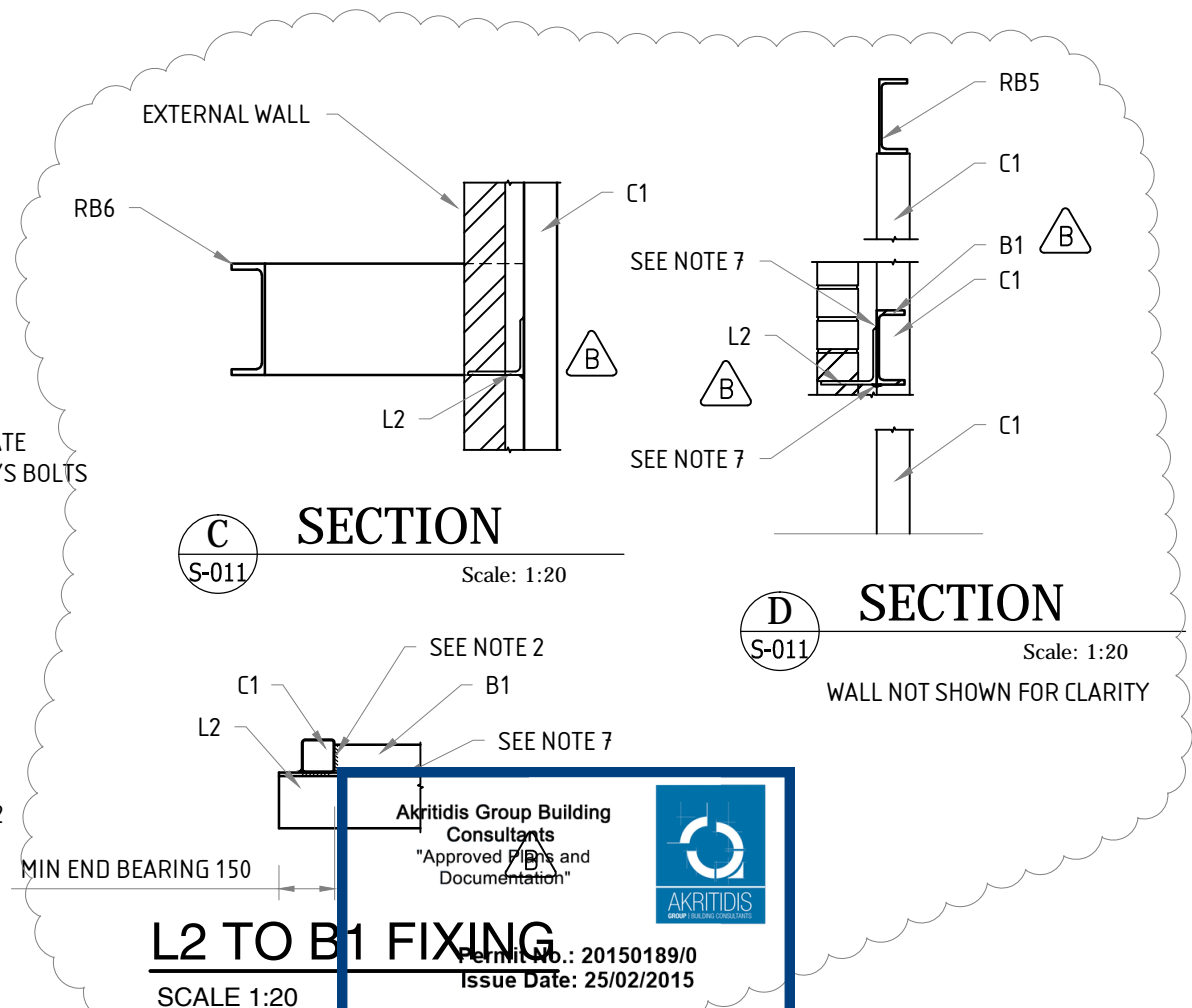
Scale: 1:20




## SECTION

## SECTION

Scale: 1:20



ISSUE / REVISIONS	REV	BY	DATE	ISSUE / REVISION DESCRIPTION	CHK	APP	ISSUE / REVISIONS	REV	BY	DATE	ISSUE / REVISION DESCRIPTION	CHK	APP	TITLE	NAME	DATE	NORTH	CLIENT	<div><div><div>Ari Akritidis</div><div></div><div>Structerra Consulting Engineers</div></div><div>Zembla Pty. Ltd. (ABN: 71 349 772 837) ATF the Young Punch and Higham Unit Trust trading as Structerra Consulting Engineers</div><div>9 Castleside, Crowsbane, Victoria, 3087</div><div>TEL (03) 5996 2555 - EMAIL: melbourne@structerra.com.au</div></div>	PROJECT	PROPOSED DWELLING 4 FLORIDA AVE BEAUMARIS, VIC	STATUS ISSUED FOR CONSTRUCTION	SHEET SIZE: A1						
	A	HAV	22/01/15	ISSUED FOR CONSTRUCTION	SB	MA								DRAFTER	HAV	13/01/15								G & A. LORD	95682992	ELEVATION & DETAILS	SCALE 1:100		
	B	HAV	03/02/15	REVISED SECTIONS C, D, E. ADDED L2 FIXING DETAIL	BN	MA								DESIGNER	BN	13/01/15												DRAWING REF. No F14190-S-021	REV B
														ENG CHECK	SWB	13/01/15													
														AUTHORISED BY:															



## LEGEND

IB	300x400 DEEP, 3L11TM BOTTOM
EB1	300x400 DEEP, 3L11TM BOTTOM
EB2	300 x 500 DEEP, 3L11TM TOP & BOTTOM
EB3	300 x 625 DEEP, 3L11TM TOP & BOTTOM
BP1	FOUNDING DEPTH 3200 BELOW GROUND LEVEL
BP2	FOUNDING DEPTH 1200 BELOW GROUND LEVEL
F1	1450x800x450 DEEP, 3L1TM BOTTOM

### PAD FOOTING F1 DETAIL

SCALE 1:50

2 x DEPTH OF BEAM

X ≤ 609

1  
—  
—

CALLOUT  
1:10

NOTE:



1050x450

F1

NATURAL OCCURRING CLAY

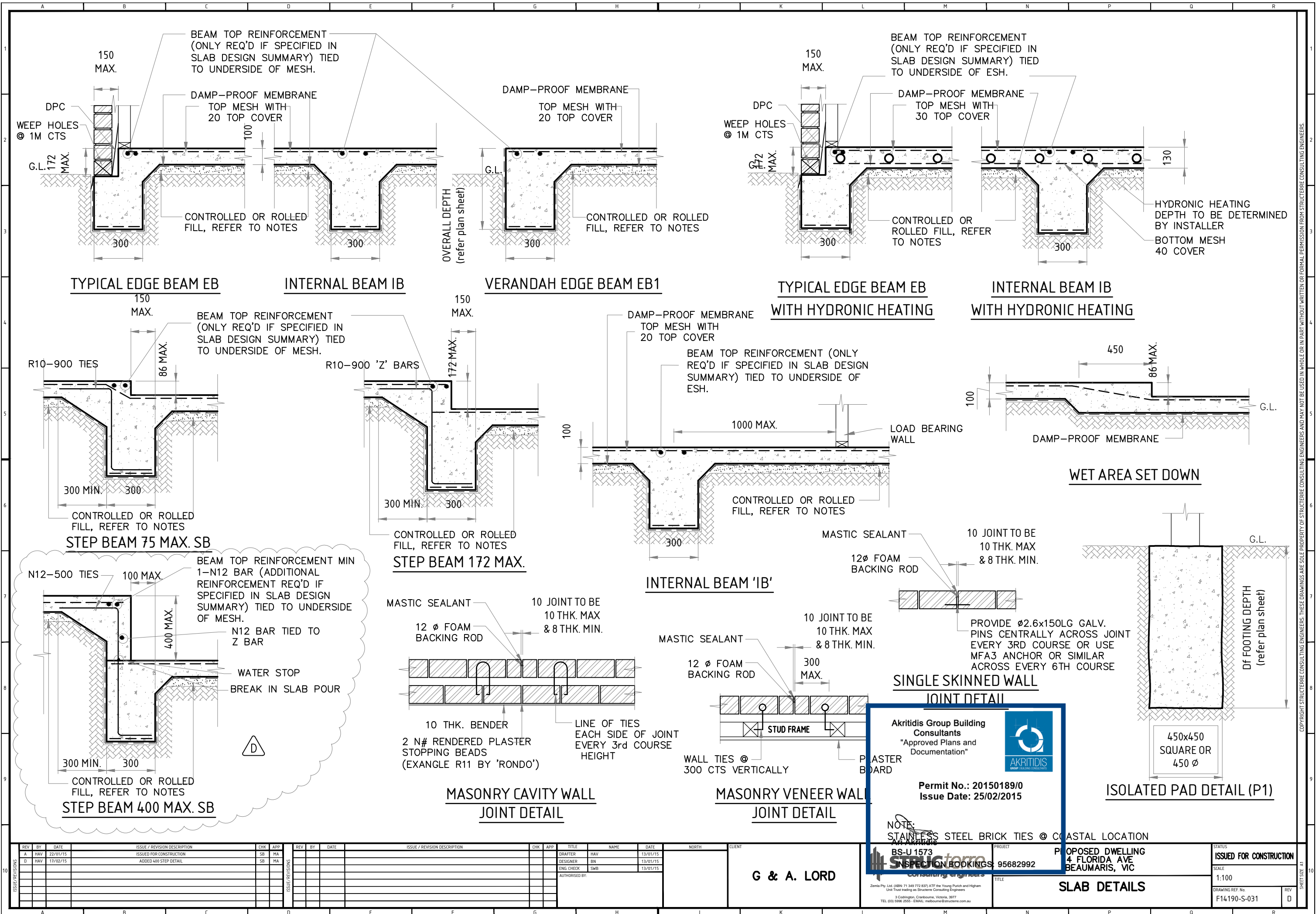
# SLAB PLAN

100mm MIN THK CONC SLAB, UNO, 130mm MIN FOR AREAS OF HYDRONIC HEATING  
TOP MESH SL92 - COVER 30mm MIN, BOTTOM MESH SL52 - 40mm MIN IN AREAS OF HYDRONIC HEATING  
ALL INTERNAL & EXTERNAL BEAMS TO BE FOUNDED 100mm INTO NATURALLY OCCURRING SLIGHTLY CLAYEY SAND

REV	BY	DATE	ISSUE / REVISION DESCRIPTION	CHK	APP	REV	BY	DATE	ISSUE / REVISION DESCRIPTION	CHK	APP	TITLE	NAME	DATE	NORTH	CLIENT	<div><div></div><div><div>Ari Akropolis</div><div>BS-01573</div><div>STRUCTURAL ENGINEERING</div><div>CONSULTING ENGINEERS</div></div></div>	PROJECT	<div><div>P</div><div>PROPOSED DWELLING</div><div>4 FLORIDA AVE</div><div>BEAUMARIS, VIC</div></div>	STATUS	<div>ISSUED FOR CONSTRUCTION</div>		
												DRAFTER	HAV	13/01/15	<div><div></div><div><div>G &amp; A. LORD</div></div></div>	95682992		SCALE		1:100		DRAWING REF. No	REV
												DESIGNER	BN	13/01/15									
												ENG CHECK	SWB	13/01/15									
D	HAV	17/02/15	ADDED EB3, NOTE	SB	MA							AUTHORISED BY											

ISSUE / REVISIONS	ISSUE / REVISIONS	ISSUE / REVISIONS	ISSUE / REVISIONS	ISSUE / REVISIONS	ISSUE / REVISIONS	ISSUE / REVISIONS	ISSUE / REVISIONS	ISSUE / REVISIONS	ISSUE / REVISIONS	ISSUE / REVISIONS	ISSUE / REVISIONS	ISSUE / REVISIONS	ISSUE / REVISIONS	ISSUE / REVISIONS	ISSUE / REVISIONS	ISSUE / REVISIONS	ISSUE / REVISIONS	ISSUE / REVISIONS	ISSUE / REVISIONS	ISSUE / REVISIONS	ISSUE / REVISIONS	ISSUE / REVISIONS	ISSUE / REVISIONS	ISSUE / REVISIONS	ISSUE / REVISIONS	ISSUE / REVISIONS	ISSUE / REVISIONS	ISSUE / REVISIONS	ISSUE / REVISIONS	ISSUE / REVISIONS	ISSUE / REVISIONS	ISSUE / REVISIONS	ISSUE / REVISIONS	ISSUE / REVISIONS	ISSUE / REVISIONS	ISSUE / REVISIONS	ISSUE / REVISIONS	ISSUE / REVISIONS	ISSUE / REVISIONS	ISSUE / REVISIONS	ISSUE / REVISIONS	ISSUE / REVISIONS	ISSUE / REVISIONS	ISSUE / REVISIONS	ISSUE / REVISIONS	ISSUE / REVISIONS	ISSUE / REVISIONS	ISSUE / REVISIONS	ISSUE / REVISIONS	ISSUE / REVISIONS	ISSUE / REVISIONS	ISSUE / REVISIONS	ISSUE / REVISIONS	ISSUE / REVISIONS	ISSUE / 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REV	BY	DATE	ISSUE / REVISION DESCRIPTION	CHK	APP
A	HAV	22/01/15	ISSUED FOR CONSTRUCTION	SB	MA
D	HAV	17/02/15	ADDED 400 STEP DETAIL	SB	MA

REV	BY	DATE	ISSUE / REVISION DESCRIPTION	CHK	APP

TITLE	NAME	DATE
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DESIGNER	BN	13/01/15
ENG CHECK	SWB	13/01/15
AUTHORISED BY:		

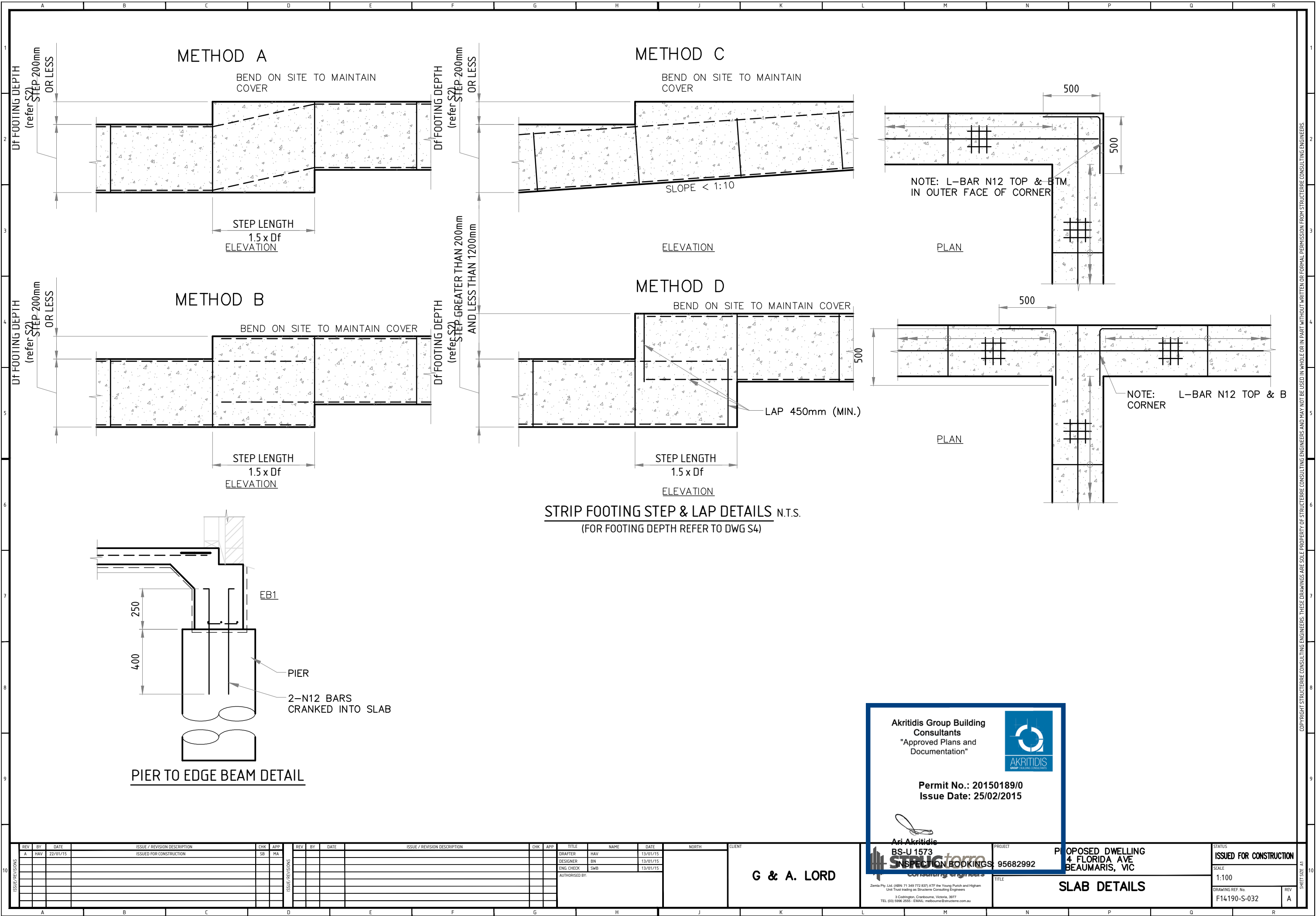
CLIENT
G & A. LORD

PROJECT
PROPOSED DWELLING 4 FLORIDA AVE BEAUMARIS, VIC

PERMIT
Permit No.: 20150189/0 Issue Date: 25/02/2015

STATUS
ISSUED FOR CONSTRUCTION
SCALE
1:100
DRAWING REF. No.
F14190-S-031

REV
D







Teks to placed 15mm min from any edge and adjacent teks. (U.N.O.)

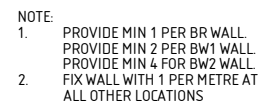
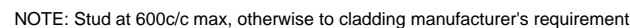
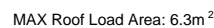
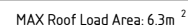
A B C D E F G

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A B C D E F G

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[illegible]