~	DWG No.	REV No.	DRAWING TITLE
📺	S01	P1	GENERAL NOTES
ST	S02	P1	
<u>5</u>	S03	P1	
l W	S04	P1	
12	S05	P1	
lΞ	S06	P1	
DRAWING REGISTER	S07	P1	
[₹	S08	P1	
胎	S09	P1	
	S10	P1	

GENERAL NOTES LOADS

Design Condition	Workg Loads
Live - General Floor Loadings	1.5 kPa
Private Balcony Loadings	2.0 kPa
Roof Loadings	0.25 kPa
Wind - Region	A5
Terrain Category	2.5
Basic Wind Speed VR	45 m/s

GENERAL

- G1. These drawings shall be read in conjunction with all other project documents architectural and other consultants drawings and specifications and with such other written instructions as may be issued during the course of the contract Any discrepancies shall be referred to the architect before proceeding with
- G2. The information contained on these drawings is subject to copyright, and may not be copied or reproduced in anyway without the written permission of STC ENGINEERING PTY LTD.
- G3. Drawings shall not be scaled. All dimensions shall be verified on site before construction/fabrication
- G4. Workmanship and materials shall be in accordance with the current relevan codes and statutory requirements, except where varied by the contract
- G5. No responsibility will be accepted for drawing discrepancies unless the works are fully supervised by the engineer. G6. During construction the contractor / builder shall be responsible for
- maintaining the structure in a stable condition and ensuring that no part is over stressed during structure activities. G7. All required inspections shall be confirmed 24 hours in advance of time
- G8. All props and formwork for beams and slabs shall be removed before any
- masonry walls or partitions are constructed on the beam or slab G9. All non-load bearing walls shall be kept clear of the underside of the slabs
- and beams by 20mm unless otherwise shown. G10. All stated assumptions to be verified prior to commencement of construction
- by building contractor at this office. G11. All work is to comply with all Occupational Health and Safety regulations.
- Builder is to provide a Health and Safety management plan prior to commencement of any work which will include, protection of public safety of workmen, scaffold and handrail and walkway requirements, excavation shoring, lifting procedures etc..

SITE WORKS AND MAINTENANCE

- W1. Adequate drainage shall be provided to prevent water ponding or collecting adjacent to the works. Landscape and Irrigation works shall not be located against the building perimeter. Saturation of ground for landscaping is not W2. Trenches under or adjacent to the works shall be backfilled with compacted
- clay or concrete. W3. Trenches parallel to the edge of a structure shall be offset a distance at least
- equal to the depth of the trench excavation.

 W4. Roof gutters, down pipes, storm water and sewerage drainage shall be
- maintained to prevent overflows. Any leaks shall be promptly repaired.
- W5. The planting of trees and large shrubs and general site maintenance shall comply with the requirements of AS2870 and csiro publication sheet 10-91 "gulde to home owners on foundation maintenance and footing performance".

FOUNDATIONS

- Work and material must comply with AS2870 & AS3798.
- F2. Founding depths or reduced levels to underside of footings shown on the drawings are for tendering purposes only. All excavations shall be approved y the engineer before placement of bilinding concrete and / or reinforcement
- F3. Refer to the Geotechnical Note and the Site Investigation Report for all footing bearing capacity and founding requirements
- F4. Refer to the Geotechnical Note for the site classification.

 F5. Excess depths and widths in the foundation excavations beyond the
- dimensions specified, shall be filled with blinding concrete at the contractors expense. The concrete fill shall not be bonded to the foundation unless approved by the engineer.
- F6. Strip all topsoil and vegetation from slab site. Particular attention should be paid to cast-in fixtures, conduits, under slab services etc
- F7. Unless specified as "suspended" filling under all concrete slabs on ground shall be as follows :-
- maximum particle size of 1.0mm and thoroughly compacted. Below this where required to build up to correct level, or to replace, subgrade, the fill shall be an approved gravel, fine crushed rock, and site derived or other Imported material. All materials are to be placed and compacted in 150 thick layers to 98% standard compaction. Compaction is to be carried out a optimum moisture content. Geotech testing of compaction is to be provided.
- F8. Concrete slabs cast on ground including where cast on cardboard formers shall have a 0.2mm polythene membrane under the whole surface lapped 00mm under and taped at all edges.
- F9. If site excavations reveal sub surface conditions varying from those documented the geotechnical engineer shall be contacted immediately to carry out further testing to confirm or revise their conclusions and
- F10. Refer to architects specification and details for termite protection
- F11. The ground surrounding the slab shall have its surface at least 150mm lower than the slab surface and be graded away from the slab edge to the slte
- F12. Owners shall maintain the slab as noted in appendix 'B' of AS2870 and in the C.S.I.R.O. publication "guide to homeowners on foundation maintenance and footing performance." It is the builders responsibility to ensure that the owner is informed of these requirements.

CONCRETE

- C1. All workmanship and materials shall be in accordance with AS3600
- C2. Concrete properties shall be as follows unless noted otherwise : Min. Grade (unless noted)
- Blinding & Mass Concre Footings & Bored Piers Slabs on Ground - Residenti Slabs on Ground - Commerc N32 N32 N32 N32 N32 N40 N40 N40 Slabs on Ground - Industria Suspended Slabs & Beams Swimming Poo Columns (u.n.o. Shotcrete Walls Insitu Walls AFS Walls
- C3. Splices in reinforcement shall be made only at the locations and to details by the engineer, the splice shall conform to AS3600 provisions. Trench mesi reinforcement in strip footings or slab ribs is to be fully lapped at all
- C4. Concrete cover <u>UNLESS NOTED OTHERWISE</u> shall be as follows:-

Element	Sheltered Formwork	Exposed to Groundwater & Weather	Other
Bored Piers / Soldier Piles		50mm	
Pads & Plle Caps	-	65mm	75mm
Strip Footings	-	50mm	50mm
Columns	40mm	45mm	75mm
Band Beams	40mm	40mm	
Slabs & Stairs	25mm	35mm	
Core Walls	35mm	35mm	35mm
Precast Walls	35mm	35mm	35mm
Pool Walls	35mm	-	
Pool Slabs	30mm	-	-

- cement slurry the old face before pouring against it.
- C6. Conduits, pipes etc, must not be placed within the concrete cover
- C7. Backprops shall remain in place until 28 days after casting of the slab. Formwork and props shall be designed by the contractor based on a maximum unsupported slab width of 1.8m. Transfer all propping forces on to
- C8. All reinforcement shall be supported by approved bar chairs, spacers or ties as required to provide adequate support during concrete place
- C9. All formwork, Including stripping of formwork, shall conform to AS3610. C10. Construction joints shall be properly formed and used only where approved
- C12. Welding of reinforcement shall not be permitted without the approval of the
- C13. Provide 3 N12 x 2000 long diagonally across the corners of openings and re-entrant corners of slabs tied under the top fabric.
- C14. Concrete floor cracking due to shrinkage is inevitable. Such cracking generally occurs in the Initial 18 month period following construction and will not affect the long term structural performance of the slab. Brittle floor tiles ould be fastened with a flexible adhesive.
- C15. All concrete slab on ground shall be cured with an approved curing compound within 2 days of placement.
- C16. Symbols on the drawing for the reinforcement are as follows:
- F Hard drawn steel wire reinforcing fabric to AS4671 N - Grade 500 MPa deformed reinforcing bars to AS4671
- R Grade 250 MPa plain reinforcing bars to AS4671.
- S Structural grade deformed bars to AS4671.
- Hard drawn steel wire reinforcing wire to AS4671. TM - Hard drawn steel trench mesh to AS4671.
- SL or RL Slab mesh grade 500 fabric
- C17. Construction joints shall be properly formed and used only where approved or permitted by the engineer.
- C18. Sawn joints shall be made at the time appropriate to the concrete mix and climatic conditions generally within 1 to 20 hours of placing the concrete at a maximum spacing of 6.0m centres (U.N.O). C19. Stripping of forms and removal of formwork shall take place in accordance
- with the procedure agreed with the engineer. C20. Concrete must be separated from supporting brickwork by two layers of a
- suitable de-bonding membrane.

 C21. Maximum concrete shrinkage at 56 days to AS3600.

SLAB ON GROUND

- SG1. All concrete materials and workmanship shall be in accordance with AS3600 and all Codes referred to therein.
- Strip all organic material and top soil and other rubbish.
- SG3. After proof rolling the prepared subgrade to achieve 98% compaction excavate any soft spots or tree roots and backfill with approved granular naterial eg. crushed rock. Lay fill down in 150mm thick layers and compact to 98% standard compaction.
- SG4. Lay fill material as required to obtain floor level. Fill to be an approved granular material laid down in 150 thick layers and compacted to 98% standard compaction as specified on NOTE F7.
- SG5. Lay polythene, lap and tape all joints.
- Wet cure concrete for 7 days after pouring.
- Grade surrounding ground away from slab edge. No trees are to be planted closer to the slab edge than their height when fully grown as
- SG8. Concrete cover to all reinforcement in concrete cast against impervious nembrane to be 30mm.
- SG9. All concrete placed in position is to be adequately vibrated using mechanical vibrators.
- SG10. Verify all rib founding depths on site.

- The timber shall be stress graded and comply with the provisions of AS1720 - timber engineering code and AS1684 - residential timber framed construction
- Maximum undersize from nominated dimensions shall be 4mm. Generally Timber shall be :-
- F5 Seasoned Pine
- F8 Green OB Hardwood
- F17 Seasoned KD) Hardwood
- T3. Roof truss installation and bracing shall comply with AS4440 T4. Timber framing including roof and wall bracing shall comply with the requirements of the national timber framing code AS1684.
- T5. All roof construction is to be securely tied down to supporting framework or masonry using galvanized hoop iron or metal connectors, fully nailed in accordance with manufacturers recommendations. Any doubts by the building contractor on the adequacy of the tle downs shall be referred to the
- engineer.

 T6. Provide double stud support to each end of all beams and lintels unless shown otherwise.
- T7. All multiple members to be laminated in accordance with AS4440.
 T8. All bolted connections shall use washers under bolt head and nut. All external bolts, nuts and washers shall be not dipped galvanized. No knots or defects shall occur within 150mm of bolt group or connectors. Where possible, re-tighten bolts after 6 weeks and again at 12 months.
- T9. Make good preservative treatment where checkouts, holes and cuts expose
- T10. All external timbers shall be durable, suitable for external use and comply with the appropriate hazard level for specific service conditions.
- T11. Glued laminated beams shall be manufactured in accordance with AS1328. Camber shall be as noted on the drawings or as specified, and installed with hog up. Beams for external use shall be fabricated using resordnol or
- T12. All proprietary fixings shall be installed to develop their maximum capacity and in accordance with the manufacturer's recommendations
- T13. The builder shall submit one set of truss manufacturer's layout drawings and computations for review 48 hours prior to fabrication. T14. Metal flxings shall be compatible with timber glues and preservative
- T15. No penetrations or chases other than those shown on the structural drawings shall be made in timber members without prior approval of the engineer

STEELWORK

- S1. Corrosion protection of steelwork shall be as follows:-
- A) steelwork permanently exposed to weather or aggressive environment including all lintels in external walls shall be hot dipped galvanise
- B) all other steelwork unless noted otherwise shall have a 70 micron thickness of R.O.Z.C. Coating. Surface preparation shall be class 2.5 to the
- quirements of AS1627 C) all steelwork below ground shall be painted with epoxy bitumen and
- encased in minimum 75mm of concrete S2. The bolting procedure is designated as follows:
- A) 4.6/S refers to commercial bolts, grade 4.6 to AS1111 tightened to a snug tight condition using a standard wrench
- B) 8.8/S refers to high strength bolts, grade 8.8 to AS1252 fully tensioned to snug tight condition using a standard wrench. C) 8.8/TF refers to high strength bolts, grade 8.8 to AS1252
- Fully tensioned to AS1511, friction type joint. Tightening of 8.8/tf bolts shall be by "turn of the nut" method.
- The prefix denotes the number of bolts eq. 2-M20 4.6/S. S3. All bolts shall be of such length that at least one full thread is exposed
- beyond the nut after tightening.
- S4. Provide a minimum of one washer under the nut in all situations.

 S5. Unless noted otherwise on the drawings: A) all cleats to be 10mm thick.
- B) welding electrodes shall be e41xx. Weld category shall be "sp" as
- C) welding consumables shall be of the low hydrogen type
- D) 2M20 4.6/S galvanised connectors minimum per connection.

 E) bolt hole clearance to be 2mm, except holding down bolts to be 6mm.
- F) all butt welds to be qualified full penetration butt welds.
- G) all fillet welds to be minimum 6mm continuous.
- H) all bolts shall be galvanised. I) connections not specifically shown shall be in accordance with the A.I.S.C. Standardised structural connections.
- S6. Coples of shop drawings shall be submitted to the engineer for review not less than 14 days prior to commencement of fabrication with all variations
- early marked. Review does not include checking of dimensions. S7. A space of 25mm between all steelwork bearing on concrete or brick shall be
- left for caulking with 1.5:1 sand/cement mortar of damp earth consistency S8. Purlins and girts are to be BHP building products or Strammit complying with A.I.S.C. Standardised connections or manufacturers recommendations unless noted otherwise. Bolting and bridging to be in accordance with
- S9. Provide minimum 150mm end bearing for beams on masonry unless noted
- S10. All workmanship and materials shall be in accordance with AS4100.

MASONRY

- M1. The soffits of concrete beams and slabs shall be separated from supporting masonry by two layers of a sultable bond breaker (eg. Malthold or similar) placed over a smooth and regular surface. Fill any depressions or Irregularities with mortar.
- M2. The type and thickness of brickwork and blockwork shall be as shown on the
- engineering and architectural drawings. M3. The quality of bricks shall be as follows:
- Minimum compressive strength to as 3700 to be 40 mpa Maximum unrestrained 5 year expansion to N.A.T.A. Registered test NoB01
- shall be 0.7mm/m. M4. The quality of blocks shall be as follows: Minimum compressive strength to as 3700 to be 15 mpa.
- Maximum unrestrained 5 year expansion to N.A.T.A. Registered test No B01 hall be 0.7mm/ M5. Mortar shall be 1:1:6 portland cement : hydrated lime or lime putty : Sand - all
- by volume. Plasticisers or other admixtures shall not be used unless approved by the engineer.

 M6. Grout used to fill cavities and core holes in brickwork and blockwork shall be 1 part portland cement: 3 parts 7mm minus aggregate: 2 parts sand and 1/10 part lime. Slump range 230mm. Min. 28 day strength 25MPa. The wall shall be grouted in max.1000mm lifts. Plasticisers may be used to achieve
- workable slumps. Other admixtures shall not be used unless approved by M7. Provide full height vertical control joints in masonry at the following Maximum
- A) Clay masonry 7.0m centres (Brick Veneer) 5.5m centres (Full Masonry)
- B) Concrete masonry 4.0m centres C) Autoclaved concrete masonry - 4 0m centres
- Or at other locations as shown on the drawings. The absence of control joints on the architectural drawings shall indicate joints to be installed as scheduled
- M8. Articulated joints are required in masonry walls to accommodate mind footing movements. Joints shall comply with the details given in the cement and concrete association of Australia - technical note 61 "articulated walling".

 Articulation joints should be placed approximately 3m from major comers and should align with window and door openings if they occur within 2m to 4m of the corner. Articulation should also be provided between different forms of building materials, between new and existing constructions and above the
- interface of different footing types. M9. Masonry ties for cavity walls shall be galvanised and spaced at not more than 600mm centres in each direction. Additional ties shall be placed adjacent to supports and control joints and around openings at a spacing of not more than 300mm and located not more than 300mm from the line of suppor
- control joint or perimeter of opening. M10. New masonry shall be tled to existing masonry using heavy duty masonry tles at maximum 400mm vertical centres along all vertical edges and at not more than 600mm horizontal spacing unless otherwise noted.
- M11. All masonry shall comply with AS3700 SAA Masonry Code.
- M12. Load bearing masonry shall have full bed joints, U.N.O.
 M13. Masonry shall be tied to columns at 400 maximum vertical centres. M14. New masonry shall be tied into existing using medium duty ties at 400mm
- maximum vertical centres along all vertical edges, and at 600 maximum horizontal centres U.N.O. M15. All cavities below ground level shall be mortar or grout filled.
- M16. Non load bearing walls shall be kept 20mm clear of the underside of floors and shelf angles.
- M17. All steelwork projecting into cavities shall be hot dipped galvanised M18. Where walls abut the underside of horizontal or raking members (slabs, steel
- or concrete beams) provide masonry flexible anchors type MFA 4 every third drive pins or similar. Provide 10mm closed cell polyethylene foam backing rod between wall and member
- M19. Where masonry walls intersect structural members (steel or concrete) provide masonry flexible anchors MFA 7 at 600mm centres embedded. In the nasonry wall and fixed to member with Ramset 6mm dia, head drive pins Mfa 7 ties shall be 200mm long x 50mm turndown. Ties to outer skin shall incorporate a drip groove.
- M20. For walls with a cavity greater than 80mm, provide masonry flexible anchors anchor-ties at 430mm vertical and 600mm horizontal centres. M21. Concrete beams and slabs shall be separated from supporting brickwork by 2
- M22. Bullder shall provide details and procedures of needle and propping to penings in masonry walls for approval before work comp

layers of malthold or similar approved membrane on top of mortar levelling

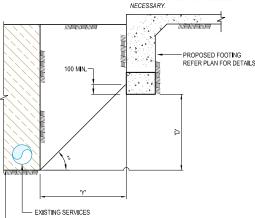
REINFORCED MASONRY

- RM1. All work and materials shall be in accordance with AS3700.
- RM2. Masonry units shall be solld or hollow as detailed and have a characteristic unconfined compressive strength of: (a) 30mpa for bricks.
- RM3. Mortar shall consist of 1 cement, 1 hydrated lime, 6 well graded sand.
- Cavity grout shall consist of 1 cement, 2 sand, 3 10mm aggregate (250
- RM4. There shall be a minimum of 15mm cover of grout around all
- sonry shall be laid with full head and bed mortar joints. Mortar Fins shall not protrude into cavity grout space. RM6. The two skins of masonry shall be bonded together with heavy duty
- RM7. Clean out ports shall be provided for each pour by leaving out two units at the bottom of each section to be grouted. During work, mortar fins and any other material shall be removed from the cavity grout space. The ports shall be sealed with similar masonry units after inspection and before
- grouting.

 The reInforced cavity shall be not less than 70mm in width
- RM9. Mortar shall cure for at least four days before pouring cavity grout. RM10. Cavity grout shall be placed by pumping or other approved method and
- shall be placed before initial set occurs, and in no case more than 12 hours after water is added.
- RM11. Cavity grouting shall be done in lifts not exceeding 1000mm per 12 hour period and rodded into position.
- RM12. Mortar to reinforced blockwork shall be m3 (1.5).
- RM13. Reinforcing bars shall be placed before or during the block laying.
 RM14. Provide full height vertical control joints in wall at maximum 6m cts
- RM15. U.N.O. Reinforcement, including starter bars and wall ties, shall be hot
- MINIMUM ANGLE OF REPOSE NOTES

 1. FOOTING SHOULD BE EXCAVATED BELOW INFLUENCE LINE. \(\text{S'} = 45^\circ \text{STIFF CLAY - 'Y'} = 1 \times 'D'
 \)
- BEFORE POURING NEW FOOTINGS, BUILDER 'X°' = 40° SOFT CLAY . 'Y' = 1.2 x 'D' SHALL CHECK IF ADJACENT SERVICES/EXISTING FOUNDATIONS, WILL 'X°' = 35° FIRM SAND - 'Y' = 1.45 x 'D'
 'X°' = 30° LOOSE SAND - 'Y' = 1.75 x 'D'





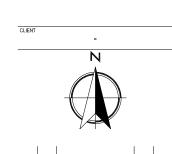
LOCAL AUTHORITY PRIOR TO ANY EXCAVATION. TYPICAL TRENCH ADJACENT TO FOOTING DETAIL N.T.S.

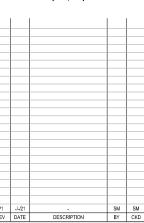
- UNDERSIDE OF EXISTING SLOPED BATTER.

EXISTING SERVICES TO BE CONFIRMED BY

EXISTING FOUNDATION OR SERVICES TRENCH CONTAINING SEWER OR STORM WATER DRAIN.

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PRELIMINARY ISSUE

21-21 1:100 @ A1

GENERAL NOTES

S01

ex. 150 dla sewer pipe 1400 deep approx. Dwelling 1 Dwelling 2 Garage 1 Garage 2 RL 3.83 RL 3.66 Ex. Double Storey Appartments Block With Basement RIDGE HT 13.70

GROUND FLOOR FOOTING AND SLAB PLAN

<u>LEGEND</u>							
c/ _a	DENOTES STEEL COLUMNS OVER. REFER FRAMING MEMBER SCHEDULE.						
0	DENOTES TS1 or DS1 OVER. REFER FRAMING MEMBER SCHEDULE.						
0	DENOTES 2 No 90 x 45 MGP10 DOUBLE STUDS. REFER STRUCTURAL FRAMING NOTES.						
шш	DENOTES LIGHTWEIGHT LOAD BEARING WALLS OVER.						
©	DENOTES TYPE S WALL BRACING (METAL TENSION STRAP BRACING) REFER TO DETAIL.						
®	DENOTES TYPE P WALL BRACING (PLY BRACING) REFER TO DETAIL.						
DT300	DENOTES 300mm WIDE POWERTRUSS BRACING						

	REFER TO DETAIL.
PT300	DENOTES 300mm WIDE POWERTRUSS BRACING TRUSS TO MANUFACTURER'S DESIGN & SPECIFICATIONS POWER TRUSS TO BE WELDED TO STEEL COLUMN AT TOP, MIDDLE & BOTTOM FOR A LENGTH OF 150mm
STEP	DENOTES STEP IN SLAB LOCATION.
	PROVIDE 15 MPA BLINDING CONCRETE BELOW EDGE BEAM TO ACHIEVE 1500 IN TOTAL BELOW N.G.L. AND MIN. 100 BELOW 30 DEGREE ANGLE OF REPOSE PROJECTED FROM EX. SEWER PIPE.
	DENOTES WET AREA SET-DOWNS, REFER ARCH. DRAWINGS FOR DETAILS.
	100mm THICK RC RAFT SLAB SL82 MESH TOP (25 COVER) F'C 25 MPA ON 0.2mm POLYTHENE MEMBRANE ON 50 THICK PACKING SAND

	ON 50 THICK PACKING SAND
	ON COMPACTED SAND FILL
	ON PREPARED SUB GRADE
	150mm THICK RC SUSPENDED SLAB ON 1.0mm
	BONDEK TRAY
	SL82 MESH TOP AND BTM. (25 COVER) F'C 25 MPa
	ON 0.2mm POLYTHENE MEMBRANE
	ON 50 THICK PACKING SAND
	ON COMPACTED SAND FILL
	ON PREPARED SUB GRADE
1	150mm THICK RC SUSPENDED RAFT SLAB

	OTT THE THREE GOD OF THE	
///	150mm THICK RC SUSPENDED RAFT SLAB SL82 MESH TOP AND BTM, (25 COVER) FC 25 MPa ON 0.2mm POLYTHENE MEMBRANE ON 50 THICK PACKING SAND ON COMPACTED SAND FILL	

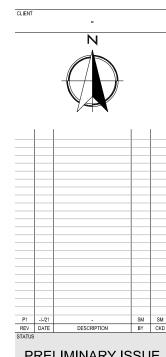
	SLE	SLEEPER RETAINING WALL SCHEDULE						
600mm MAX TYPICAL	SRW1 600 MAX. RETAINING WALL AT 1800 MAX. CFS. 200 x 100 FS 800 DIA. BORED PIE 800 DEEP.							
1200mm MAX TYPICAL	SRW2	1200 MAX. RETAINING WALL	100 VC IS AT 1200 MAX. CFS. REFER TO SEQUENCE NOTES	200 x 100 FS KDTP	450 DIA. BORED PIERS 1.5 x RETAINING HEIGHT.			
	RETAINING BLOCK WALL SCHEDULE							
	RTW1	RTW1						

GEOTECHNICAL NOTE CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE SITE INVESTIGATION REPORT
THIS SITE HAS BEEN CLASSIFIED "CLASS A" IN ACCORDANCE WITH GEOTECHNICAL REPORT No. 21867 PREPARED BY ALLEY KARLOVIC SOIL ENGINEERING, DATED 20 / 11 / 2021.
ALL EDGE AND INTERNAL SLAB BEAMS AND SLAB THICKENINGS ARE TO BE FOUNDED AT LEAST 100mm INTO THE NATURALLY OCCURRING MEDIUM DENSE SAND WITH A MINIMUM ALLOWABLE BEARING CAPACITY OF 100kPa.
ALL STRIP FOOTINGS AND PAD FOOTINGS ARE TO BE FOUNDED AT LEAST 100mm INTO THE NATURALLY OCCURRING MEDIUM DENSE SAND WITH A MINIMUM ALLOWABLE BEARING CAPACITY OF 100kPa.
SOLE RELIANCE HAS BEEN PLACED ON THIS REPORT

FOOTING SCHEDULE (F'c = 25MPa)											
FOOTING TYPE	EB1 EDGE BEAM	EB2 EDGE BEAM	EB3 PAD FOOTING	IB1 INTERNAL BEAM	IB2 INTERNAL BEAM	TH1 SLAB THICKENING	TH2 SLAB THICKENING	TH3 SLAB THICKENING	PF1 PAD FOOTING	SF1 STRIP FOOTING	SF2 STRIP FOOTING
WIDTH MINIMUM	300	300	600	300	400	600x600	800x800	1000x1000	1200x1200	600	1000
DEPTH MINIMUM	500	500 MIN - 750 MAX	500	500	500	500	500	500	500	500	500
REINFORCEMENT	3-L11TM BOTTOM	3-L11TM BOTTOM	6-L11TM TOP & BOTTOM	3-L11TM BOTTOM	4-L11TM BOTTOM	SL82 MESH BOTTOM	SL82 MESH BOTTOM	SL82 MESH BOTTOM	SL82 MESH TOP & BOTTOM	6-L11TM TOP & BOTTOM	SL81 MESH TOP & BOTTOM
COMMENTS	-	•	-	-	-	-	-	-	-	٠	-



PROPOSED DEVELOPMENT 33 NEPEAN HW ASPEND



PRELIMINARY ISSUE

21-21

DESIGN	SM	SCALE	1:100 @ A1
DRAWN	SM		
CHECKED	-	DATE	02/2022
ADDROVED			

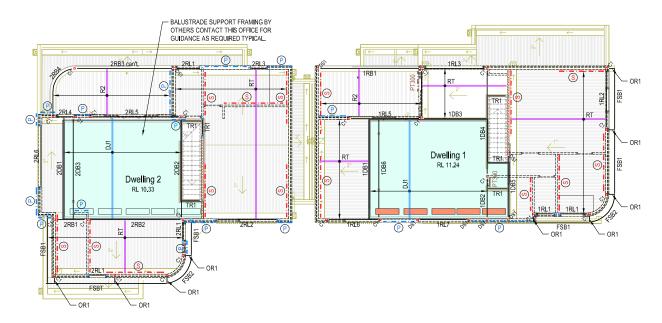
GROUND FLOOR PLAN



FBI CORI FBI CO

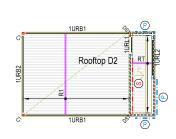
FIRST FLOOR FRAMING PLAN

SCALE 1:100



DECK / ROOF FRAMING PLAN

SCALE 1:10



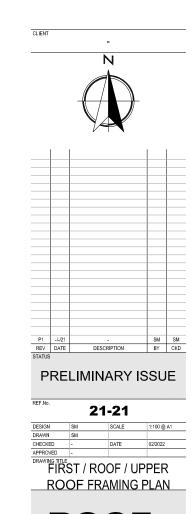


UPPER ROOF FRAMING PLAN

2CALE 1 • 10

LEGEND DENOTES DS1, TS1 OR C1 OVER, REFER TO FRAMING MEMBERS SCHEDULE DENOTES 2 No 90 x 45 MGP10 DOUBLE STUDS. INTERNAL LOAD BEARING WALL UNDER. DENOTES STRAP BRACING. DENOTES POWER TRUSS TO MANUFACTURER'S DESIGN & SPECIFICATIONS. DENOTES OUTLINE OF DECK / FIRST FLOOR LIGHTWEIGHT FRAMING. DENOTES OUTLINE OF BALCONY LIGHTWEIGHT FRAMING. DENOTES LIGHTWEIGHT FOOF DESIGN AND BRACING BY OTHERS. DENOTES WET AREA SET-DOWNS. REFER TO ARCH. DENOTES LOCATION OF LIGHTWEIGHT PLANTER BOXES JOIST MANUFACTURER TO ALLOW FOR ADDITIONAL LOADING.

PROPOSED DEVELOPMENT AT 33 NEPEAN HWY, ASPENDALE



ROOF

FIRST FLOOR FRAMING MEMBER SCHEDULE						
MARK	SIZE	REMARKS	MARK			
FIRST FLOOR - UNIT 1						
1FB1	2 - 190 x 45 MGP10	FLOOR BEAM	1DB1			
1FB2	300 PFC 90 - Gr.300PLUS	FLOOR BEAM	1DB2			
1FB3	300 PFC 90 - Gr.300PLUS	FLOOR BEAM	1DB3			
1FB4	2 - 240 x 45 F17 SEASONED, MIXED SA/NSW HARDWOOD	FLOOR BEAM	1DB4			
1FB5	2 - 240 x 45 F17 SEASONED. MIXED SA/NSW HARDWOOD	FLOOR BEAM	1DB5			
1FB6	300 PFC 90 - Gr.300PLUS	FLOOR BEAM	1DB6			
1FB7	200 PFC 75 - Gr.300PLUS	FLOOR BEAM	1RB1			
1FB8	2 - 290 x 45 MGP10	FLOOR BEAM	1URB1			
1FB9	250 PFC 90 - Gr.300PLUS	FLOOR BEAM	1URB2			
1FB10	250 PFC 90 - Gr.300PLUS	FLOOR BEAM	1L1			
1FB11	2 - 290 x 45 F17 SEASONED, MIXED SA/NSW HARDWOOD	FLOOR BEAM	1L2			
1FB12	250 PFC 90 - Gr.300PLUS	FLOOR BEAM	1L3			
1FB13	2 - 290 x 45 F17 SEASONED, MIXED SA/NSW HARDWOOD	FLOOR BEAM	1L4			
1FB14	250 PFC 90 - Gr.300PLUS	FLOOR BEAM	1L5			
1FB15	200 UB 22.3 - Gr.300PLUS	FLOOR BEAM	1GL1			
1FB16	200 UB 22.3 - Gr.300PLUS	FLOOR BEAM	1RL1			
1FB17	250 PFC 90 - Gr.300PLUS	FLOOR BEAM	1RL2			
	FIRST FLC	OOR - UNIT 2	1RL3			
2FB1	2 - 240 x 45 MGP10	FLOOR BEAM	1RL4			
2FB2	250 PFC 90 - Gr.300PLUS	FLOOR BEAM	1RL5			
2FB3	250 PFC 90 - Gr.300PLUS	FLOOR BEAM	1RL6			
2FB4	2 - 290 x 45 F17 SEASONED, MIXED SA/NSW HARDWOOD	FLOOR BEAM	1RL7			
2FB5	2 - 240 x 45 MGP10	FLOOR BEAM	1URL1			
2FB6	2 - 290 x 45 MGP10	FLOOR BEAM	1URL2			
2FB7	250 PFC 90 - Gr.300PLUS	FLOOR BEAM				
2FB8	200 PFC 75 - Gr.300PLUS	FLOOR BEAM	2DB1			
2FB9	200 UB 22.3 - Gr.300PLUS	FLOOR BEAM	2DB2			
2FB10	250 UC 72.9 - Gr.350	FLOOR BEAM	2DB3			
2FB11	2 - 290 x 45 F17 SEASONED, MIXED SA/NSW HARDWOOD	FLOOR BEAM	2RB1			
2FB12	2 - 290 x 45 F17 SEASONED, MIXED SA/NSW HARDWOOD	FLOOR BEAM	2RB2			
2FB13	200 PFC 75 - Gr.300PLUS	FLOOR BEAM	2RB3			
2FB14	250 PFC 90 - Gr.300PLUS	FLOOR BEAM	2RB4			
2FB15	200 UC 46.2 - Gr.350	FLOOR BEAM	2URB1			
2FB16	2 - 240 x 45 MGP10	FLOOR BEAM	2URB2			
2FB17	250 PFC 90 - Gr.300PLUS	FLOOR BEAM	2L1			
2FB18	250 PFC 90 - Gr.300PLUS	FLOOR BEAM	2L2			
			2GL1			

MARK	SIZE	BER SCHEDULE REMARKS
		FLOOR - UNIT 1
1DB1 250 PFC 90 - Gr.300PLUS DECK BEAM		
1DB2	2 - 240 x 45 F17 SEASONED,	DECK BEAM
1DB3	MIXED SA/NSW HARDWOOD 200 PFC 75 - Gr.300PLUS	DECK BEAM
1DB4	250 PFC 90 - Gr.300PLUS	DECK BEAM
1DB5	200 PFC 75 - Gr.300PLUS	DECK BEAM
1DB6	200 UB 22.3 - Gr.300PLUS	DECK BEAM
1RB1	2 - 290 x 45 F17 SEASONED,	ROOF BEAM
1URB1	MIXED SA/NSW HARDWOOD 200 PFC 75 - Gr.300PLUS	UPPER ROOF BEAM
1URB2	2 - 290 x 45 F17 SEASONED,	UPPER ROOF BEAM
1L1	RADIATA PINE 2 - 290 x 45 F17 SEASONED,	LINTEL
1L2	RADIATA PINE 2 - 240 x 45 MGP10	LINTEL
1L3	240 x 45 MGP10	LINTEL
1L4	140 x 45 MGP10	LINTEL
1L5	240 x 45 MGP10	LINTEL
1GL1	250 PFC 90 - Gr.300PLUS	GARAGE LINTEL
1RL1	140 x 45 MGP10	ROOF LINTEL
1RL2	2 - 240 x 45 MGP10	ROOF LINTEL
1RL3	2 - 240 x 45 MGP10	ROOF LINTEL
1RL4	200 PFC 75 - Gr.300PLUS	ROOF LINTEL
1RL5	250 PFC 90 - Gr.300PLUS	ROOF LINTEL
1RL6	250 PFC 90 - Gr.300PLUS	ROOF LINTEL
1RL7	2 - 290 x 45 F17 SEASONED,	ROOF LINTEL
1URL1	RADIATA PINE 140 x 45 MGP10	UPPER ROOF LINTEL
1URL2	190 x 45 MGP10	UPPER ROOF LINTEL
TOTALL		FLOOR - UNIT 2
2DB1	250 PFC 90 - Gr.300PLUS	DECK BEAM
2DB2	250 PFC 90 - Gr.300PLUS	DECK BEAM
2DB2 2DB3	200 UB 22.3 - Gr.300PLUS	DECK BEAM
2RB1	250 PFC 90 - Gr.300PLUS	ROOF BEAM
2RB2	250 PFC 90 - Gr.300PLUS	ROOF BEAM
2RB3	2 - 240 x 45 F17 SEASONED,	ROOF BEAM
2RB4	MIXED SA/NSW HARDWOOD 200 PFC 75 - Gr.300PLUS	ROOF BEAM
2URB1	200 PFC 75 - Gr.300PLUS	UPPER ROOF BEAM
2URB2	2 - 290 x 45 F17 SEASONED,	UPPER ROOF BEAM
	2 - 240 x 45 MGP10	LINTEL
2L1	2 - 240 x 45 MGP10	LINTEL
2L2	380 PFC 100 - Gr.300PLUS	GARAGE LINTEL
2GL1		
2RL1	140 x 45 MGP10	ROOF LINTEL
2RL2	2 - 240 x 45 MGP10	ROOF LINTEL
2RL3	2 - 140 x 45 MGP10	ROOF LINTEL
2RL4	200 PFC 75 - Gr.300PLUS	ROOF LINTEL
2RL5	250 PFC 90 - Gr.300PLUS	ROOF LINTEL
2RL6	2 - 240 x 45 MGP10	ROOF LINTEL
2URL1	140 x 45 MGP10	UPPER ROOF LINTEL

	COMMON MEMBER SCHEDULE				
	MARK	SIZE	REMARKS		
	DS1	2 No 90 x 45 F17 KDHW	DOUBLE STUDS		
	TS1	3 No 90 x 45 F17 KDHW	TRIPLE STUDS		
	C1	89 x 89 x 5.0 SHS	STEEL COLUMN		
	R1	LOUVRE RAFTERS TO MANUFACTURER'S SPEC. AND DESIGN OR 290 X 45 F7 KDTP AT 600 MAX. CTS.			
	R2	LOUVRE RAFTERS TO MANUFACTURER'S SPEC. AND DESIGN OR 240 X 45 MGP10 AT 600 MAX. CTS.			
	FJ1	1 240 X 45 MGP10 AT 450 MAX. CTS. (BALCONY JOIST) 260 DEED DOSISTBILITE AT 450 MAX. CTS. TO MANUICACTI IDED'S SIDEC. AND			
	BJ1				
	DJ1				
	TR1	2/240 x 45 MGP10	STRIMMER BEAM		
	TR2	200 x 75 PFC CURVED	STRIMMER BEAM		
	OR1	150 x 75 PFC	OUTRIGGER BEAM		
	FSB1	15 x 75 PFC OR 240 x 45 MGP10			

FSB2 150 x 75 PFC CURVED

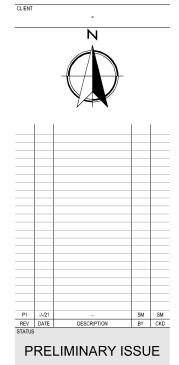
GENERAL NOTES
ALL FIRE RATINGS AND ACOUSTIC RATINGS BETWEEN
APARTMENTS AND / OR COMMUNAL SPACES TO BE IN
ACCORDANCE WITH ARCHITECT'S SPECIFICATIONS.

WET AREAS AND FLOOR FINISHES TO BE STRICTLY IN ACCORDANCE WITH ARCHITECTURAL DOCUMENTATION. BUILDER TO ENSURE SET-DOWNS IN FLOOR JOISTS ACCOMMODATE REQUIRED FINAL LEVELS.

TEMPORARY STEEL PROPPING NOTE
ALL STRUCTURAL STEEL TO BE ADEQUATELY PROPPED
AND TO REMAIN PROPPED UNTIL ALL BRACING
ELEMENTS ARE FULLY INSTALLED. PROPS MAY ONLY BE
REMOVED ONCE STRUCTURE HAS BEEN INSPECTED AND
APPROVED BY ENGINEER AND OR BUILDING SURVEYOR.

MASC	MASONRY LINTEL SCHEDULE (U.N.O)		
SPAN	LINTEL SPECIFICATION (ALL EXPOSED STEELWORK IS TO BE GALVANISED)		
<1200	90 x 90 x 6 EA LINTEL or 90 x 8 GALINTEL	110 END BEARING	
1200-1500	90 x 90 x 8 EA LINTEL or 100 x 100 GALINTEL	110 END BEARING	
1500-2000	100 x 100 x 8 EA LINTEL or 100 x 100 GALINTEL	110 END BEARING	
2000-2500	150 x 90 x 8 UA LINTEL or 150 x 100 GALINTEL	230 END BEARING	
2500-3000	150 x 100 x 10 UA LINTEL or 150 x 100 GALINTEL	230 END BEARING	
3000-3600	150 x 100 x 10 GALINTEL	230 END BEARING	

PROPOSED DEVELOPMENT AT 33 NEPEAN HWY, ASPENDA



DESIGN SM
DRAWN SM
CHECKED APPROVED DRAWING TITLE FF FRAMING DETAILS - S1

21-21

SCALE 1:100 @ A1



