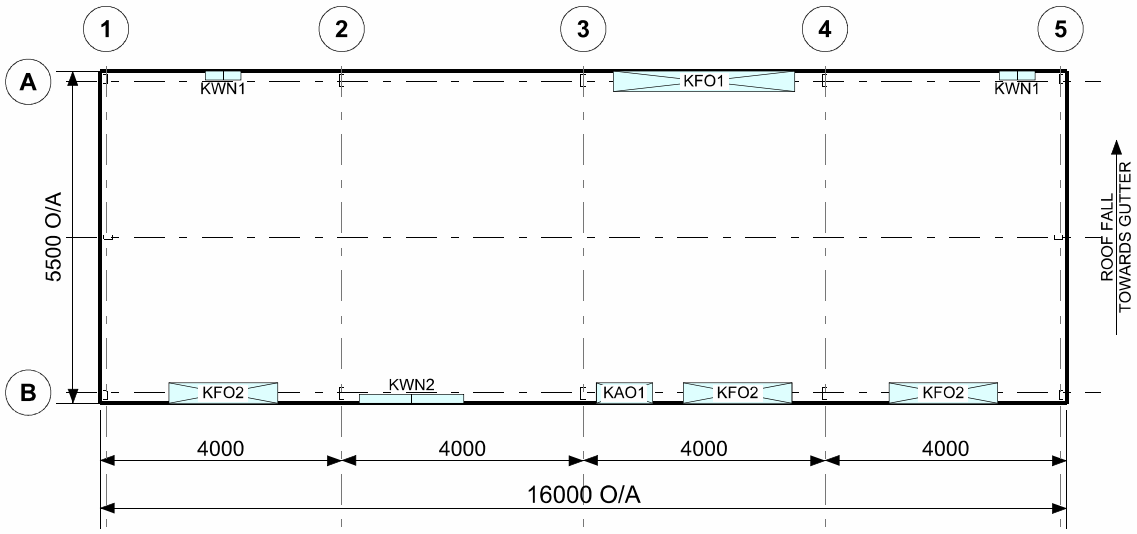
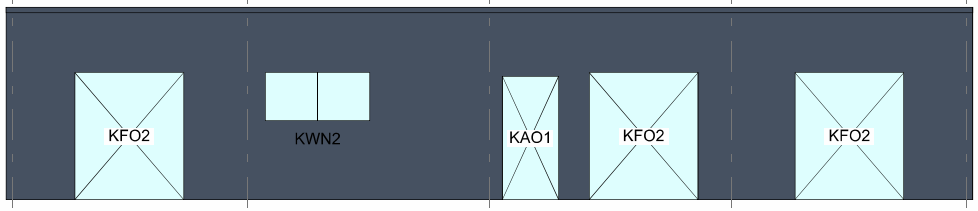
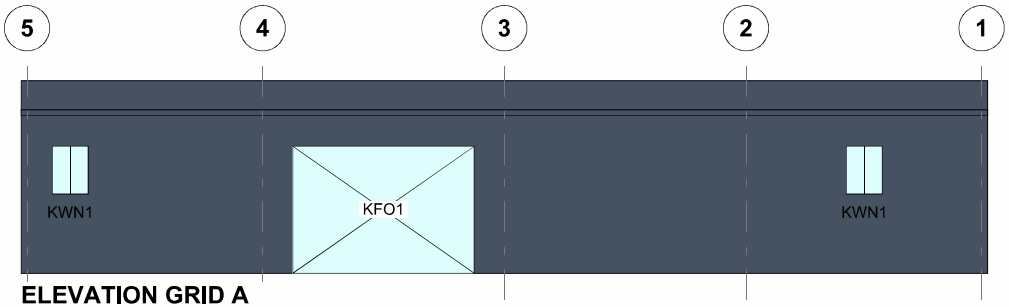


FRAME ROOF PLAN



ELEVATION GRID B



ELEVATION GRID A

Cont. on page 2

RANBUILD

CLADDING

ITEM	PROFILE (min)	FINISH	COLOUR
ROOF	CUSTOM ORB 0.42 BMT	CB	DO
WALLS	CUSTOM ORB 0.42 BMT	CB	DO
CORNERS	-	CB	DO
BARGE	-	CB	DO
GUTTER	HI-QUAD	CB	DO
DOWNPIPE	100x50	CB	DO

0.35bmt=0.40tct; 0.42bmt=0.47tct; 0.48bmt=0.53tct

ACCESSORY SCHEDULE & LEGEND

QTY	MARK	DESCRIPTION
2	KWN1	AMI - Reg A & B, 790x589 CLR + FG Fly Screen, Window Kit (BDSP)
1	KFO1	2100H x 3000W Framed Opening. Door must be fitted
3	KFO2	2100H x 1800W Framed Opening. Door must be fitted
1	KWN2	AMI - Reg A & B, 790x1731 CLR + FG Fly Screen, Window Kit (BDSP)
1	KAO1	Access Door Opening, 38 Recess C/B (D). Door must be fitted

ARCHITECTURAL DRAWING ONLY, NOT FOR CONSTRUCTION USE

WIND DESIGN

IMPORTANCE LEVEL	REGION	TERRAIN	Ms
2	A	2.5	1.0

CLIENT
Alex & Kirsty Rix - Boswell

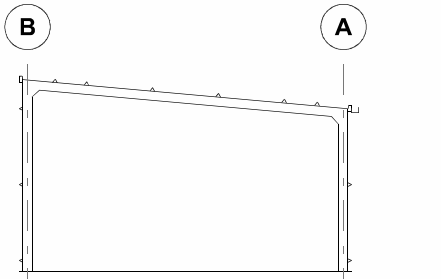
SITE
GLENGARRY
604 Wallawaugh Road
HARGRAVES NSW 2850

BUILDING
SUNDOWN DELUXE SKILLION
5500 SPAN x 2700/3182 EAVE x 16000 LONG

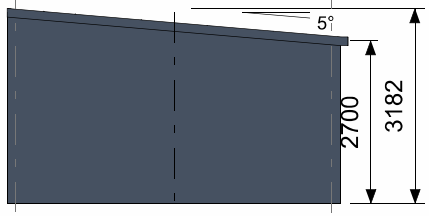
TITLE
GENERAL ARRANGEMENT

SCALE	DRAWING NUMBER	REV	PAGE
A4 SHEET 1:125	**417209-GA**	**A**	**1/2**

Cont. on page 1



SECTION GRID 2, 3, 4



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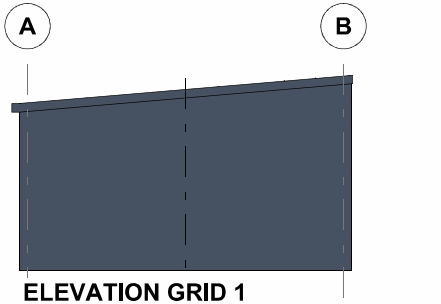
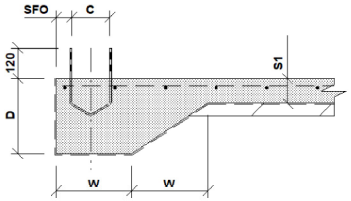


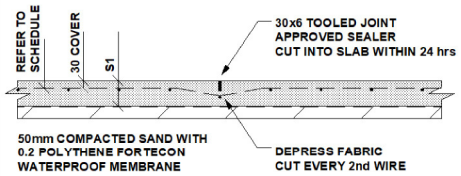
ELEVATION GRID 1

RANBUILD

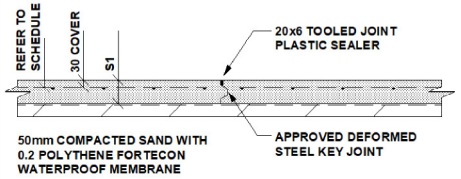
SCALE	REV
A4 SHEET 1:125	A
DRAWING NUMBER	PAGE
417209-GA	2/2



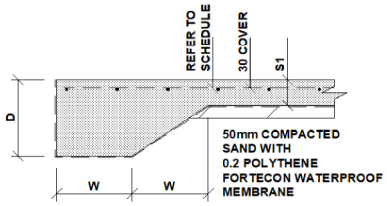
SECTION A-A
DET S1/EB1
CAST-IN STRAP



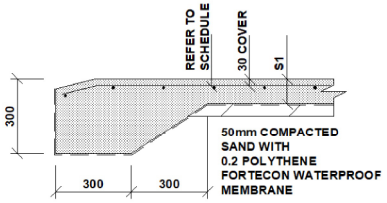
DET S1/A
CONTROL JOINT



DET S1/C
CONSTRUCTION JOINT



DET S1/EB1 FOR RC SLAB
NOT SUITABLE AT OPENINGS
SUBJECT TO VEHICLE TRAFFIC



DET S1/EB2
REQUIRED AT OPENINGS
SUBJECT TO VEHICLE TRAFFIC

Cont. on page 2

RANBUILD

NOTES

ALL DIMENSIONS SHOULD BE CHECKED AND VERIFIED PRIOR TO COMMENCEMENT OF ANY WORKS.

SEE ERECTION INSTRUCTIONS FOR SECTION & SLAB ADDITIONAL NOTES

SEE ENGINEERING DRAWINGS FOR ADDITIONAL DET'S NOTES & CONCRETE SPECIFICATION

CONTROL JOINTS MUST BE SUPPLIED AT NOT GREATER THAN 4.5m OR CONCRETE POUR AT A RATIO OF NOT MORE THAN 1:1.2 IN ANY DIRECTION

CONSTRUCTION JOINTS MUST BE SUPPLIED WHERE AN UNBROKEN RUN OF CONCRETE POUR EXCEEDS 30m IN ANY DIRECTION

COLUMN SCHEDULE:

COLUMN	SFO	C
SGBS15	60	154
SGBS20	60	205

DIMENSION SCHEDULE:

D	W	S1	X1	X2	X3	Y1	Y2
200	200	100	160	93	90	40	30

CLIENT
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GLENGARRY
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HARGRAVES NSW 2850

BUILDING
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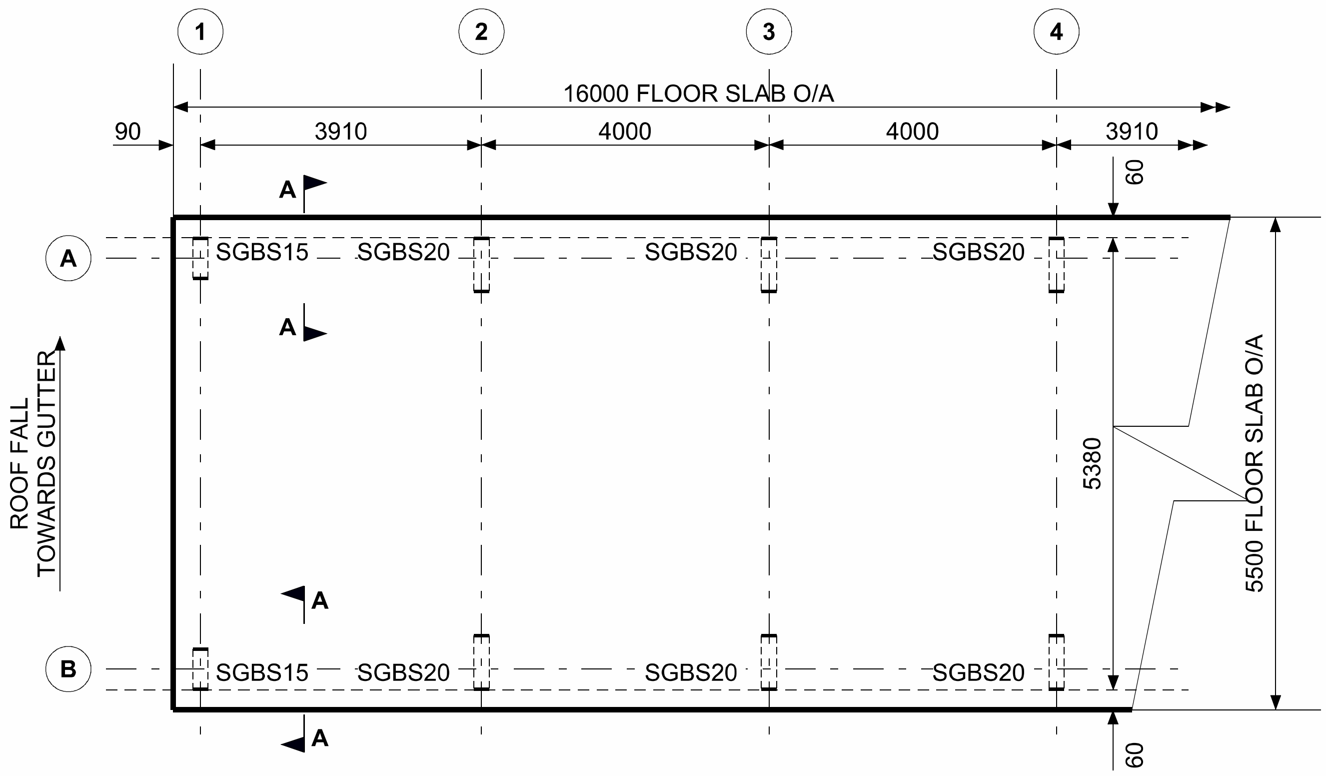
5500 SPAN x 2700/3182 EAVE x 16000 LONG

TITLE
RC SLAB PLAN

SCALE	DRAWING NUMBER	REV	PAGE
NTS	417209-RSP	A	1/3

Cont. on page 1



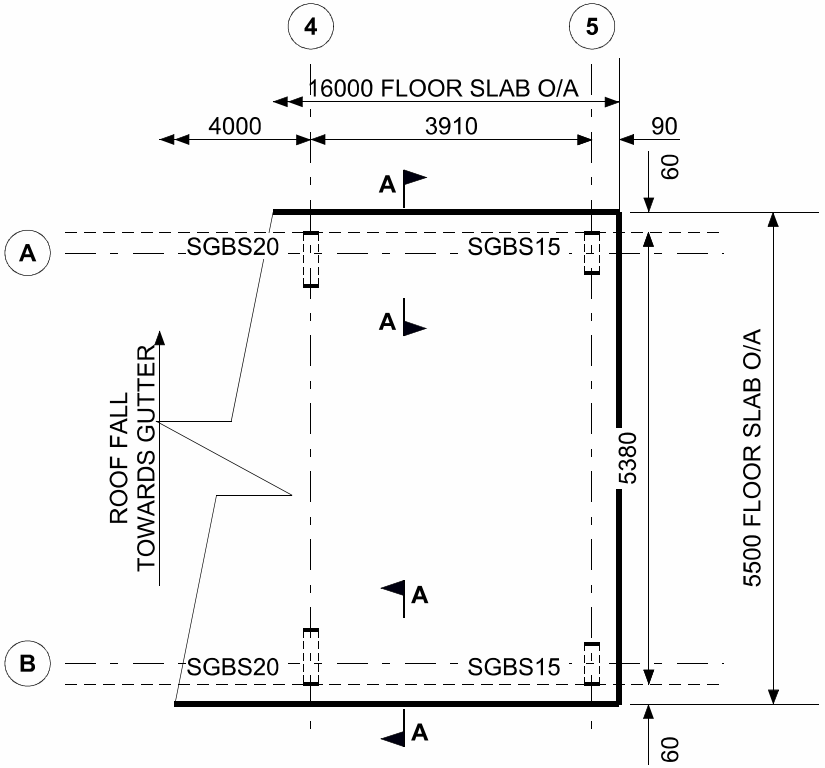
BASE STRAP & HD BOLT SCHEDULE
6 REQ'D BASE STRAP SGBS20
4 REQ'D BASE STRAP SGBS15

Cont. on page 3

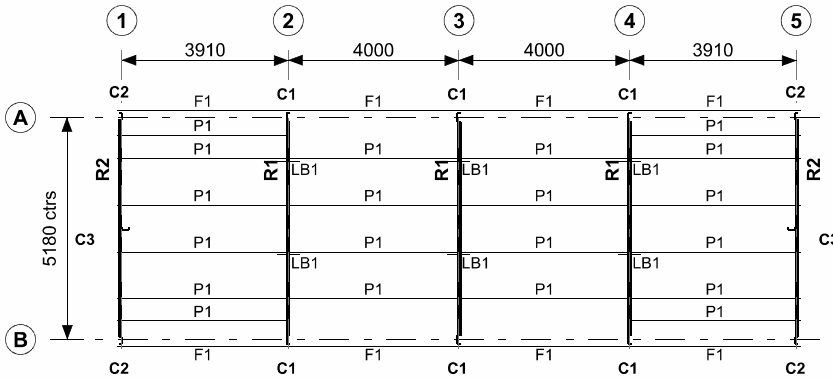
RANBUILD

SCALE NTS
REV **A**
DRAWING NUMBER **417209-RSP**

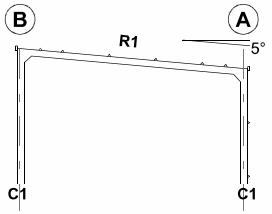
Cont. on page 2



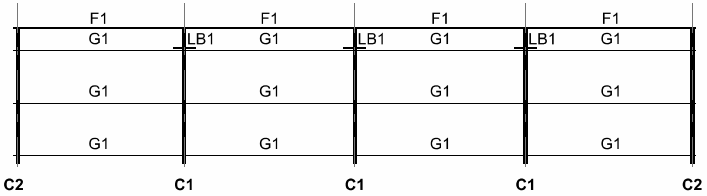
SCALE	REV
NTS	A
DRAWING NUMBER	PAGE
417209-RSP	3/3



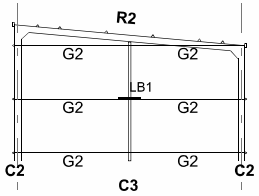
FRAME ROOF PLAN



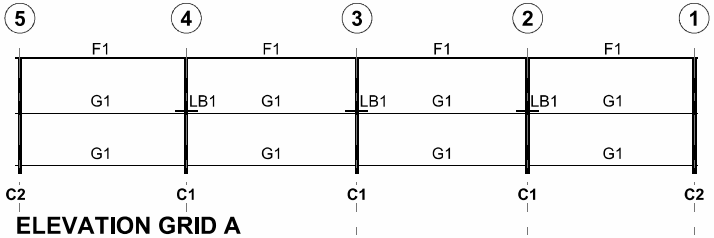
SECTION GRID 2, 3, 4



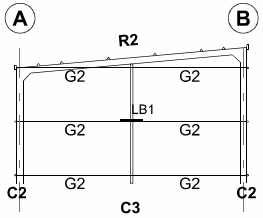
ELEVATION GRID B



ELEVATION GRID 5
(Set Back)



ELEVATION GRID A



ELEVATION GRID 1
(Set Back)

REFERENCE DRAWINGS

STEEL FRAME DIAGRAMS	ENG1-3913
STEEL FRAME SCHEDULE	ENG2-3913
FRAME CONNECTONS	ENG3-3913
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RC SLAB DET'S,CONC. SPEC. & SITE NOTES	ENG6-3913

CLIENT
Alex & Kirsty Rix - Boswell

SITE
GLENGARRY
604 Wallawaugh Road
HARGRAVES NSW 2850

BUILDING TYPE
Sundown Deluxe Skillion

BUILDING DIMENSION
5500S x 2700/3182E x 16000L

TITLE
STEEL FRAME DIAGRAMS

APPROVED
17-Jun-22

MIEAust, CPEng, NPER 1296608

DRAWN	REV	SCALE	DRAWING NUMBER
RDS	A	1:175	ENG1/1-1998-003913

STRUCTURAL STEELWORK SCHEDULE			CONNECTIONS		
MARK	DESCRIPTION	SECTION	BASE	EAVES	TOP
C1	COLUMN - UNCLAD FRAME	C20012	FB2	KN3, KN7	
C2	COLUMN - CLAD FRAME	C15010	FB1	KN1, KN5	
C3	COLUMN - END	C15010	EB1		ER1
R1	RAFTER - UNCLAD FRAME	C20012		KN3	KN7
R2	RAFTER - CLAD FRAME	C15010	RA2	KN1	KN5
Bw	BRACING - SIDE WALL	DIAPHRAGM			
Be	BRACING - END WALL	DIAPHRAGM			
Br	BRACING - ROOF	DIAPHRAGM			
LB1	BRACE - LATERAL FLY	95 x 0.6 STRAP	LB1		
F1	FASCIA	C10010			
P1	PURLINS	TS6160 @ 1250	BL1		
G1	GIRTS - SIDE	TS6160 @ 1340	BL1		
G2	GIRTS - END	TS6160 @ 1340	BL1		

GENERAL

- THIS IS A STANDARDISED DESIGN SUITABLE FOR LIGHT INDUSTRIAL, COMMERCIAL & RURAL BUILDINGS TO STANDARDS & REQUIREMENTS PROVIDED BY RANBUILD.
- THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH RANBUILD ASSEMBLY GUIDE.
- ANY DISCREPANCY SHALL BE REFERED TO THE ENGINEER BEFORE PROCEEDING WITH WORK.
- ALL MATERIALS & WORKMANSHIP SHALL BE IN ACCORDANCE WITH RELEVANT & CURRENT SAA CODES & WITH BY-LAWS & ORDINANCES OF THE RELEVANT BUILDING AUTHORITIES EXCEPT WHERE VARIED BY THE PROJECT SPECIFICATION.
- ALL DIMENSIONS SHOWN SHOULD BE VERIFIED BY THE BUILDER ON SITE. ENGINEERS DRAWINGS SHALL NOT BE SCALED FOR DIMENSIONS.
- DURING CONSTRUCTION THE STRUCTURE SHALL BE MAINTAINED IN A STABLE CONDITION & NO PART SHALL BE OVERSTRESSED. TEMPORARY BRACING SHALL BE PROVIDED BY THE BUILDER TO KEEP THE WORKS & EXCAVATIONS STABLE AT ALL TIMES.
- UNLESS NOTED OTHERWISE ALL LEVELS ARE IN METRES & ALL DIMENSIONS ARE IN MILLIMETRES.
- THE STRUCTURAL COMPONENTS DETAILED ON THESE DRAWINGS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE RELEVANT SAA CODES & NORMAL ENGINEERING PRACTICE.
- ARCHITECTURAL ELEMENTS TO HAVE A MINIMUM OF 20mm CLEARANCE OF THE STRUCTURE & ARE TO BE ARTICULATED.
- IT IS COMMON SENSE TO WORK SAFELY AND TO PROTECT YOURSELF AND OTHERS FROM ACCIDENTS ON SITE. TO DO THIS, YOU MUST ENSURE YOU HAVE IN PLACE SAFE WORK PRACTICES AND APPROPRIATE EQUIPMENT. SAFETY INVOLVES PERSONAL PROTECTION OF EYES, OF SKIN(FROM SUNBURN) AND OF HEARING(FROM NOISE). FALL PROTECTION MUST ALSO BE IN PLACE AS APPLICABLE INCLUDING SAFETY MESH, PERSONAL HARNESSES AND PERIMETER GUARDRAILS. IT IS RECOMMENDED THAT YOU FAMILIARIZE YOURSELF WITH APPLICABLE LAWS, REGULATIONS, RULES, GUIDELINES, CODES OF PRACTICE AND STANDARDS AND THAT YOU ADHERE STRICTLY TO THEM.

STRUCTURAL STEEL SPECIFICATION

- ALL STRUCTURAL STEELWORK TO BE CARRIED OUT IN ACCORDANCE WITH THE LATEST EDITIONS OF THE FOLLOWING SAA CODES & SPECIFICATIONS.
  AS4100 STEEL STRUCTURES CODE
  AS/NZS 4600 COLD FORMED STEEL STRUCTURES CODE.
  AS1511 HIGH STRENGTH STRUCTURAL BOLTING.
  AS1111 COMMERCIAL BOLTS & SCREWS.
  AS2887 FARM STRUCTURES (WHERE APPLICABLE).
- PROPRIETARY PRODUCTS ARE TO BE IN ACCORDANCE WITH THE RESPECTIVE MANUFACTURERS INSTRUCTIONS.

FRAME ASSEMBLY

- CORRECT FRAME ASSEMBLY IS IMPORTANT TO ACHIEVE OPTIMUM PERFORMANCE OF THE STRUCTURE
- FULLY TENSION BOLTS AT KNEE & APEX JOINTS AS SPECIFIED BEFORE STANDING FRAMES.
- FULLY TENSION BOLTS AT BASE CONNECTIONS AS SPECIFIED IMMEDIATELY AFTER STANDING THE FRAME.
- ROOF & WALL BRACING PROVIDE STRUCTURAL STABILITY WHERE SPECIFIED & MUST BE INSTALLED BEFORE THE CLADDING.

SELF DRILLING SCREWS

- QUALITY AND MECHANICAL PROPERTIES OF STRUCTURAL SCREWS MUST COMPLY WITH AS3566.1.
- ALL TEK SCREWS SHALL BE NO. 12 - 14 X 20 U.N.O
- THE MINIMUM DISTANCE OF EDGE/END SCREWS MUST HAVE AN EDGE DISTANCE OF 1.5 X SCREW DIAMETER FROM THE EDGE.
- THE MINIMUM DISTANCE OF SCREW TO SCREW SPACING MUST NOT BE LESS THAN 3 X SCREW DIAMETER BETWEEN ANY SCREWS.

HIGH TENSILE BOLTS

- ALL BOLTS SHALL BE M16 / 8.8 / S U.N.O
- CONNECTIONS WITH 8.8S BOLTS SPECIFIED ARE DESIGNED AS FRICTION TYPE JOINTS & BOLTS, NUTS & WASHERS SHALL COMPLY WITH THE RELEVANT REQUIREMENTS OF AS1252.
- 8.8/S BOLTS TO BE INSTALLED IN ACCORDANCE WITH AS1511 & TENSIONED BY AN APPROVED METHOD TO PRODUCE THE FOLLOWING SHANK TENSIONS

BOLT SIZE	SHANK TENSION (kN)
M12	50
M16	90

- FOR THIS DESIGN AN ACCEPTABLE TENSIONING METHOD IS SNUG TIGHT (PODGER SPANNER TIGHT) PLUS HALF A TURN.

CLADDING

- ALL ROOF AND WALL CLADDING TO BE INSTALLED IN ACCORDANCE WITH AS1562.1 AND THE MANUFACTURER'S INSTRUCTIONS.
- ROOF AND WALL CLADDING ARE STRUCTURAL DIAPHRAGM BRACINGS. UNDER NO CIRCUMSTANCES SHOULD THE CLADDING BE REMOVED WITHOUT WRITTEN APPROVAL FROM A PRACTICING STRUCTURAL ENGINEER.

DESIGN LOADING

- THE STRUCTURAL COMPONENTS SHOWN ON THESE DRAWINGS HAVE BEEN DESIGNED FOR THE FOLLOWING LOAD CONDITIONS COMPLYING WITH AS/NZS 1170.0, 1, 2, 3:-

ROOF DEAD LOAD	SELF WEIGHT ONLY
ROOF LIVE LOAD	(1.8/A+0.12) BUT NOT LESS THAN 0.25kPa AND 1.1kN
WIND LOAD REGION	A
TERRAIN CATEGORY	2.5
IMPORTANCE LEVEL	2
Ms	1.0
Mt	1.0
INTERNAL PRESSURE COEFFICIENTS	Cpi = -0.3 or 0.0 (ENCLOSED)
SITE CLASS	M (CLAY)
GROUND SNOW LOAD Sg	0.5 kPa

- ALL DOORS AND WINDOWS SHALL HAVE THE SAME CYCLONIC WIND LOAD RATING AS THE REST OF THE BUILDING ENVELOPE, INCLUDING RESISTANCE TO FLYING DEBRIS AS SPECIFIED IN AS1170.2:2011 AND AS/NZS 4505-2012. DOORS AND WINDOWS SHALL BE CLOSED DURING STORMS. DOORS SHALL BE INSTALLED WITH WIND LOCKS IN CYCLONIC AREAS. SUPPORTING DOCUMENTATION INCLUDING TEST REPORTS SHALL BE AVAILABLE FROM DOORS AND WINDOWS MANUFACTURERS TO CONFIRM LOAD RATING AND ENSURE COMPLIANCE WITH ABOVE MENTIONED STANDARDS AND BCA. DOORS ARE ALSO REQUIRED TO BE SUPPLIED WITH A STICKER THAT SHOWS A RANGE OF INFORMATION INCLUDING THE DESIGN PRESSURE OF THE DOOR ACCORDING TO AS/NZS 4505-2012 REQUIREMENTS.

COPYRIGHT NOTE

CERTIFICATION

I CERTIFY THAT THE DESIGN OF THIS STEEL FRAMED BUILDING IS STRUCTURALLY ADEQUATE, MEETS SERVICABILITY REQUIREMENTS AND COMPLIES WITH THE RELEVANT REGULATIONS WITH ALL AMENDMENTS CURRENT TO DATE.
I FURTHER CERTIFY THE PROPOSED STEEL FRAMED BUILDING WILL BE STRUCTURALLY ADEQUATE WHEN CONSTRUCTED TO GOOD BUILDING PRACTISES, IN ACCORDANCE TO RANBUILD ASSEMBLY GUIDE AND THESE DRAWINGS.

Alexander Filonov
MIEAust, CPEng, NPER 1296608 (Structural), RPEQ 8094, CC4719P, PE 0003374
LYSAGHT BUILDING SOLUTIONS Date: 17-Jun-22

RANBUILD

REFERENCE DRAWINGS

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FRAME CONNECTONS	ENG3-3913
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CLIENT
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SITE
GLENGARRY
604 Wallawaugh Road
HARGRAVES NSW 2850

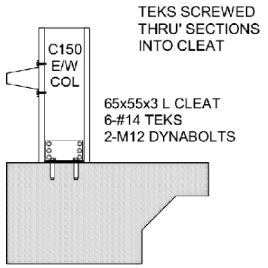
BUILDING TYPE
Sundown Deluxe Skillion

BUILDING DIMENSION
5500S x 2700/3182E x 16000L

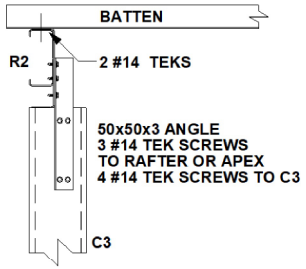
TITLE
STEEL FRAME SCHEDULE AND NOTES

APPROVED
17-Jun-22
MIEAust, CPEng, NPER 1296608

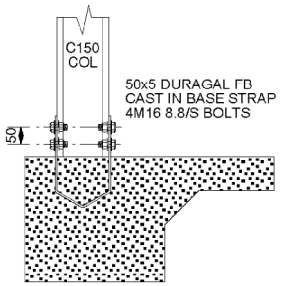
DRAWN	REV	SCALE	DRAWING NUMBER
RDS	A		ENG2/1-1998-003913



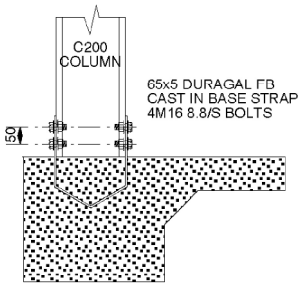
E/W COLUMN BASE - EB1



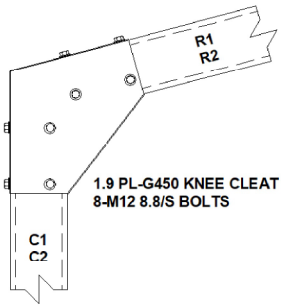
E/W COLUMN TO RAFTER CONNECTION - ER1



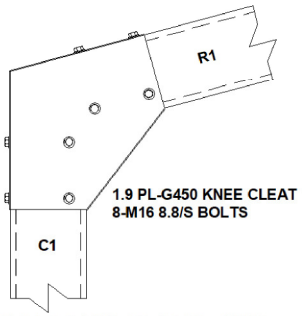
FIXED BASE - FB1



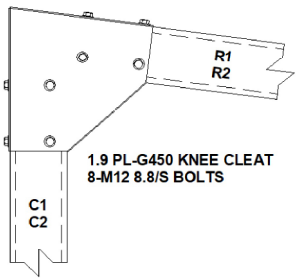
FIXED BASE - FB2



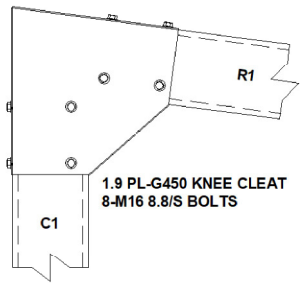
KNEE CONNECTION - KN1



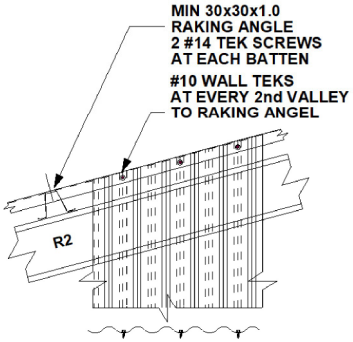
KNEE CONNECTION - KN3



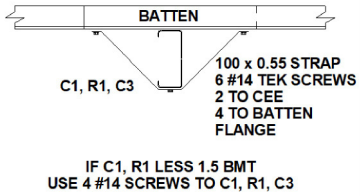
KNEE CONNECTION - KN5



KNEE CONNECTION - KN7



RAKING ANGLE - RA2



LATERAL BRACE - LB1

RANBUILD

REFERENCE DRAWINGS

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RC SLAB DET'S,CONC. SPEC. & SITE NOTES	ENG6-3913

CLIENT
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Sundown Deluxe Skillion

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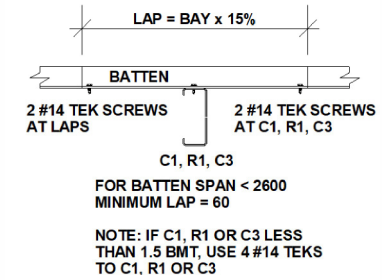
5500S x 2700/3182E x 16000L

TITLE
CONNECTION DETAILS

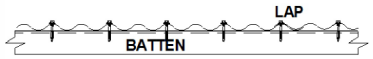
APPROVED
17-Jun-22

MIEAust, CPEng, NPER 1296608

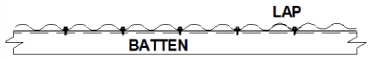
DRAWN	REV	SCALE	DRAWING NUMBER
RDS	A	1:20	ENG3/1-1998-003913



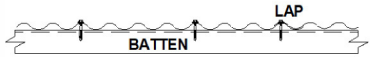
BATTEN LAP - BL1



CORRUGATED PROFILE - CREST FIXED
(END SUPPORTS)
NON-CYCLONIC 0.42 BMT (MIN), #12-14x50 TEKS
(ALL SUPPORTS)
CYCLONIC 0.42 BMT (MIN), #14-10x50 TEKS



CORRUGATED PROFILE - PAN FIXED
(END SUPPORTS)
NON-CYCLONIC 0.35 BMT (MIN), #10-16x16 TEKS
(ALL SUPPORTS)
CYCLONIC 0.42 BMT (MIN), #14-10x25 TEKS



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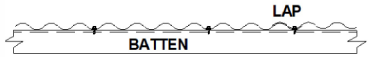
(INTERNAL SUPPORTS)
NON-CYCLONIC 0.42 BMT (MIN), #12-14x50 TEKS



CORRUGATED PROFILE - PAN FIXED
(INTERNAL SUPPORTS)
NON-CYCLONIC 0.35 BMT (MIN), #10-16x16 TEKS

ROOF CLADDING
SHEAR DIAPHRAGM - RC2

WALL CLADDING
SHEAR DIAPHRAGM - WC2

RANBUILD

REFERENCE DRAWINGS

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FRAME CONNECTONS	ENG3-3913
RC SLAB	ENG4-3913
ISOLATED PADS	ENG5-3913
RC SLAB DET'S,CONC. SPEC. & SITE NOTES	ENG6-3913

CLIENT
Alex & Kirsty Rix - Boswell

SITE
GLENGARRY
604 Wallawaugh Road
HARGRAVES NSW 2850

BUILDING TYPE
Sundown Deluxe Skillion

BUILDING DIMENSION
5500S x 2700/3182E x 16000L

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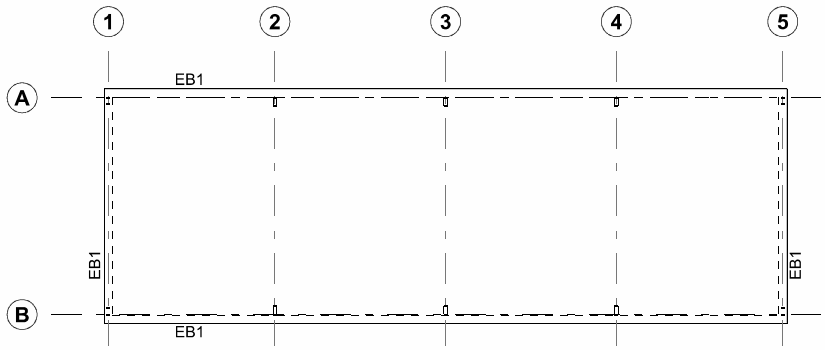

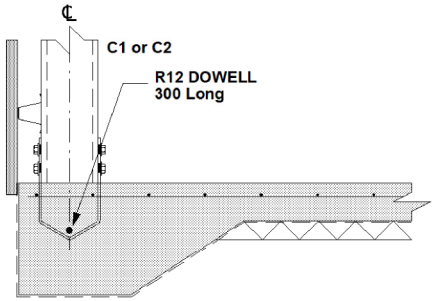

TYP CAST IN STRAP

RC SLAB

THIS GENERAL PURPOSE RC FLOOR DESIGN IS SUITABLE FOR STRUCTURES USED FOR DOMESTIC, FARM AND COMMERCIAL NON-HABITABLE BUILDINGS SUCH AS GARAGES, STORAGE SHEDS, BARNS, STABLES ETC. THE DESIGN IS NOT SUITABLE FOR STRUCTURES CONVERTED FOR USE AS A DWELLING.

ALL DIMENSIONS SHOULD BE CHECKED AND VERIFIED PRIOR TO COMMENCEMENT OF ANY WORKS.

IF SLIDING DOORS ARE INCLUDED ON THIS PROJECT, A STRIP FOOTING OR PAD FOOTINGS WILL BE NECESSARY, AND MUST BE POURED IN CONJUNCTION WITH THIS GARAGE'S SLAB OR FOOTINGS.

SEE ERECTION INSTRUCTIONS FOR ADDITIONAL NOTES.

REFERENCE

SEE SLAB DETAIL DRAWING FOR:-

- SITE FOUNDATION CLASSIFICATION NOTES
- MINIMUM SITE PREPARATION NOTES
- CONCRETE SPECIFICATION NOTES
- CONCRETE REINFORCEMENT NOTES
- SLAB ON GRADE NOTES
- DETAIL S1/EB1 - SLAB EDGE TYPE 1
- DETAIL S1/A - SLAB CONTROL JOINT
- DETAIL S1/C - SLAB CONSTRUCTION JOINT

RANBUILD

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RC SLAB PLAN

APPROVED
17-Jun-22
MIEAust, CPEng, NPER 1296608

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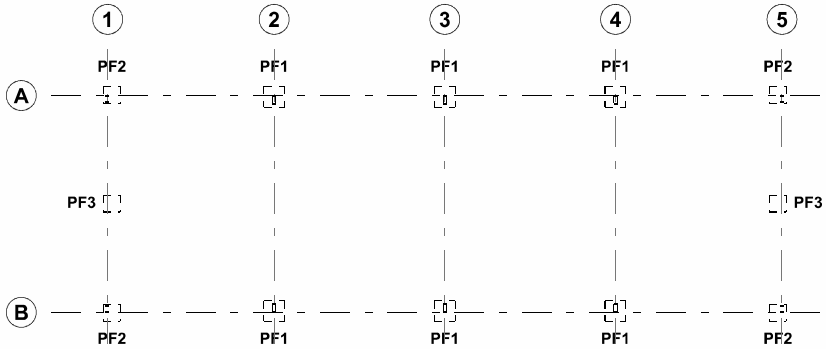

ISOLATED PAD FOOTING LEGEND

	"W"x"W"x"D"
PF1	= 450x450x450
PF2	= 400x400x400
PF3	= 400x400x400

ISOLATED PAD FOOTINGS

ISOLATED MASS CONCRETE FOOTINGS ARE ECONOMICALLY SUITED FOR SHEDS ON SANDY GROUND.

- THIS DESIGN MAY ALSO BE USED FOR CLAYEY SOIL OR WHERE ROCK IS ENCOUNTERED.
- ALL PAD FOOTINGS TO BE FOUNDED IN NATURAL GROUND WITH A SAFE BEARING CAPACITY OF 100 kPa AT DEPTH INDICATED.

THE DEPTH "D" MAY BE REDUCED TO A MINIMUM OF 400mm PROVIDED THAT "W" DIMENSIONS ARE ADJUSTED TO MAINTAIN THE SAME VOLUME OF CONCRETE.

CAREFUL PLANNING SHOULD BE MADE WHEN DETERMINING PAD FOOTING SIZES. IF AN ANNEXE OR AWNING IS BEING CONSIDERED AS A FUTURE ADD-ON, INITIAL FOOTING TREATMENT MUST BE MADE. PLEASE CONTACT RANBUILD FOR THIS TREATMENT DETAIL. ALL DIMENSIONS SHOULD BE CHECKED AND VERIFIED PRIOR TO COMMENCEMENT OF ANY WORKS.

THIS DRAWING FOR ISOLATED PAD FOOTINGS IS INSUFFICENT WHEN SLIDING DOORS ARE SPECIFIED. ADDITIONAL STRIP FOOTING UNDER SLIDING DOOR SHALL BE DESIGNED.

SEE ERECTION INSTRUCTIONS FOR ADDITIONAL NOTES.

REFERENCE

REFER TO THE FOLLOWING NOTES:-
- SITE FOUNDATION CLASSIFICATION NOTES
- MINIMUM SITE PREPARATION NOTES
- CONCRETE SPECIFICATION NOTES
- CONCRETE REINFORCEMENT NOTES

RANBUILD

REFERENCE DRAWINGS

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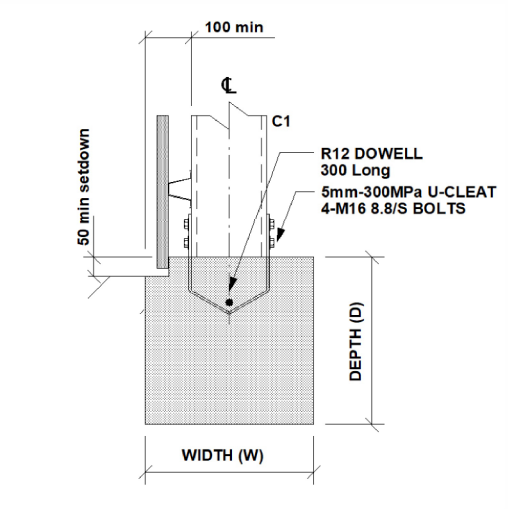
TITLE
ISOLATED PAD FOOTING DETAILS

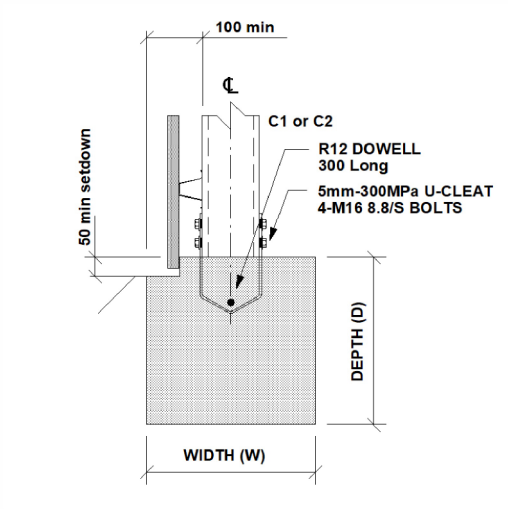
APPROVED
17-Jun-22

MIEAust, CPEng, NPER 1296608

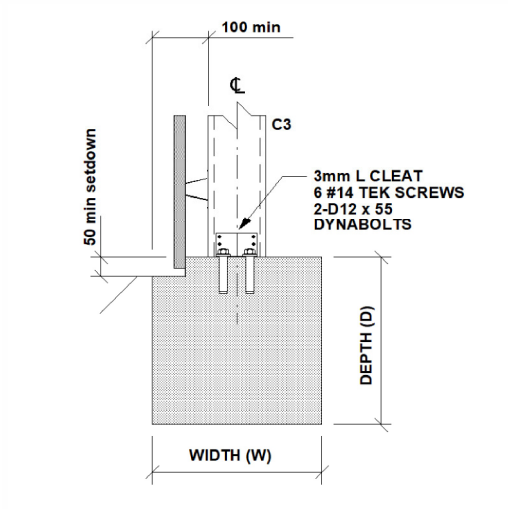
DRAWN	REV	SCALE	DRAWING NUMBER
RDS	A	1:40, 1:175	ENG5/1-1998-003913



TYP DET PF1



TYP DET PF2



TYP DET PF3

REFERENCE DRAWINGS

STEEL FRAME DIAGRAMS	ENG1-3913
STEEL FRAME SCHEDULE	ENG2-3913
FRAME CONNECTONS	ENG3-3913
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RC SLAB DET'S,CONC. SPEC. & SITE NOTES	ENG6-3913

CLIENT
Alex & Kirsty Rix - Boswell

SITE
GLENGARRY
604 Wallawaugh Road
HARGRAVES NSW 2850

BUILDING TYPE
Sundown Deluxe Skillion

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TITLE
ISOLATED PAD FOOTING DETAILS

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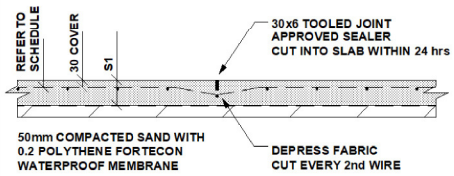
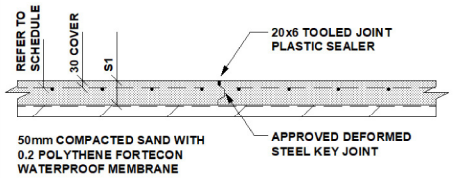


DET S1/A

CONTROL JOINT

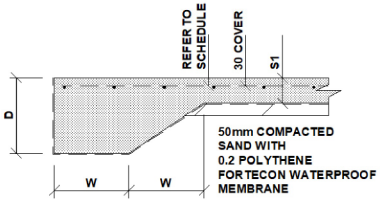
CONTROL JOINTS MUST BE SUPPLIED AT NOT GREATER THAN 4.5M OR CONCRETE POUR AT A RATIO OF NOT MORE THAN 1:1.2 IN ANY DIRECTION.



DET S1/C

CONSTRUCTION JOINT

CONSTRUCTION JOINTS MUST BE SUPPLIED WHERE AN UNBROKEN RUN OF CONCRETE POUR EXCEEDS 30M IN ANY DIRECTION.



DET S1/EB1 FOR RC SLAB

NOT SUITABLE AT OPENINGS
SUBJECT TO VEHICLE TRAFFIC

SITE FOUNDATION CLASSIFICATION

TWO COMMON FOUNDATION CONDITIONS & SITE CLASSIFICATIONS IN ACCORDANCE WITH AS2870 ARE USED FOR THE STANDARDISED FOOTING DESIGNS AS FOLLOWS:-

- STIFF CLAY CONFORMING TO AS2870 CLASS M.
  MINIMUM SAFE BEARING CAPACITY - 100 kPa.
  SHAFT ADHESION - 20 kPa
- DENSE SAND CONFORMING TO AS2870 CLASS A/S.
  MINIMUM SAFE BEARING CAPACITY - 100 kPa.
- A SITE SPECIFIC GEOTECHNICAL INVESTIGATION IS RECOMMENDED & IF CONDITIONS OTHER THAN ASSUMED ARE ENCOUNTERED A DIFFERENT FOOTING DESIGN MAY BE REQUIRED & SHOULD BE REFERED TO A QUALIFIED LOCAL ENGINEER.
- ALL FOOTINGS TO BE FOUNDED IN NATURAL GROUND.
- NO FOOTING TO BE FOUNDED ON FILL MATERIAL.
- REFERENCE SHOULD BE MADE TO CSIRO PUBLICATION 10.91 GUIDE TO HOME OWNERS ON FOUNDATION MAINTENANCE & FOOTING PERFORMANCE

MINIMUM SITE PREPARATION

- STRIP SITE OF ALL TOP SOIL & DISCARD TO SPOIL. THE EXPOSED SURFACE TO BE PROOF ROLLED & AREAS REMAINING SOFT OR SPONGY ARE TO BE EXCAVATED TO SPOIL.
- PLACE APPROVED GRANULAR FILL MATERIAL TO THE REQUIRED BUILDING PLATFORM LEVEL IN LAYERS NOT EXCEEDING 200mm AND COMPACT BY ROLLING WITH SUITABLE EQUIPMENT TO ACHIEVE A DRY DENSITY RATIO OF 98% STANDARD COMPACTION TO AS1289 - E1.1 AT OPTIMUM MOISTURE CONTENT. THE TOP 200mm TO BE COMPACTED TO 100% STANDARD DRY DENSITY.
- THE COMPACTION OF ALL FILL MATERIAL TO BE INSPECTED AND APPROVED BY A RESPONSIBLE GEOTECHNICAL CONSULTANT.

CONCRETE REINFORCEMENT

- REINFORCEMENT IS REPRESENTED DIAGRAMATICALLY & NOT NECESSARILY IN TRUE PROJECTION.
- REINFORCEMENT NOTATION:-

  N DENOTES HOT ROLLED DEFORMED BAR.

  SL DENOTES HARD DRAWN WELDED WIRE FABRIC. THE NUMBER IMMEDIATELY FOLLOWING BAR NOTATION IS THE NOMINAL DIAMETER IN mm.

- PROVIDE BAR SUPPORTS OR SPACERS TO GIVE THE FOLLOWING COVER TO ALL RIENFORCEMENT UNLESS NOTED OTHERWISE.

  FOOTINGS 80 BOTTOM, 65 TOP & SIDES
  SLABS 30 BOTTOM, 20 TOP
  BEAMS 40 BOTTOM & SIDES TO STIRRUPS. TOP COVER AS DETAILED

- PROVIDE 2N12 DIAGONAL CORNER BARS 900 LONG AT ALL RE-ENTRANT CORNERS OF OPENINGS IN SLABS AND THESE BARS TO BE POSITIONED 30mm FROM THE CORNER.

CONCRETE SPECIFICATION

- CARRY OUT ALL WORK IN ACCORDANCE WITH THE CURRENT ISSUE OF AS3600 & THE SPECIFICATION.
- CONCRETE SIZES SHOWN DO NOT INCLUDE FINISH & MUST NOT BE REDUCED OR HOLED IN ANY WAY WITHOUT THE ENGINEERS APPROVAL. DEPTH OF BEAMS INCLUDE SLAB THICKNESS.
- SLABS & BEAMS ARE TO BE POURED TOGETHER.
- CONSOLIDATE BY VIBRATION.
- SLAB CONCRETE TO BE AS SHOWN IN SLAB ON GRADE CRITERIA.
- BORED PIER CONCRETE SHALL HAVE F'c = 20 MPa, MAXIMUM AGGREGATE SIZE = 20 mm, SLUMP = 80 mm,
  EXCEPT FOR BCA CLASSES 2 TO 9 BUILDINGS CONCRETE SHALL HAVE F'c = 32MPa.

SLABS ON GRADE

- SLABS TO BE PLACED OVER 25 CONSOLIDATED SAND OVER PREPARED SUBGRADE.
- PROVIDE 0.2 POLYTHENE FORTICON WATERPROOF MEMBRANE UNDER ALL SLABS WITH LAPPED & TAPED JOINTS.
- PLACE PUMP MIX CONCRETE AS SPECIFIED BELOW TO ACCURATE LEVELS AS PER ARCHITECTS SPECIFICATION.
- PROVIDE CONTROL JOINTS AS INDICATED BY NEATLY SAW CUTTING 40 x 6 GROOVES WITHIN 12 HOURS OF THE FINAL FLOAT OF THE CONCRETE.
- CURE SLAB FOR 7 DAYS AFTER PLACEMENT BY MAINTAINING A CONTINUOUSLY WET SURFACE BY APPROVED METHODS. FLOODING & COVERING WITH POLYTHENE IMMEDIATLY AFTER FINISHING IS AN APPROVED METHOD.
- SEALING OF JOINTS TO BE CARRIED OUT ONE MONTH MINIMUM AFTER CURING IS COMPLETE.
- PROVIDE PROPER STORMWATER DRAINAGE AWAY FROM THE BUILDING.

SLAB ON GRADE CRITERIA	
CONCRETE COMPRESSIVE STRENGTH AT 28 DAYS (MPa)	20
FLEXURAL STRENGHT AT 90 DAYS (MPa)	5
SLUMP (mm)	80
AGGREGATE MAXIMUM SIZE (MM)	20
CEMENT TYPE	SL
CEMENT CONTENT (kg/cubic metre) MIN	320
FLY ASH CONTENT (kg/cubic metre) MAX	70
WATER / CEMENT RATIO (MAX)	0.45
MICROSTRAIN AT 56 DAYS	600
FLOOR FINISH - BURNISHED STEEL TROWEL	NON SLIP
FLOOR TOLERANCE	CLASS B

- FOR OTHER LOAD CONDITIONS A DESIGN VARIATION IS REQUIRED & SHOULD BE REFERED TO A QUALIFIED LOCAL ENGINEER.

DIMENSION SCHEDULE

D	200
W	200
S1	100RC SLAB
FABRIC	SL62T mesh

RANBUILD

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RC SLAB DETAILS, CONCRETE SPECIFICATION, SITE NOTES

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