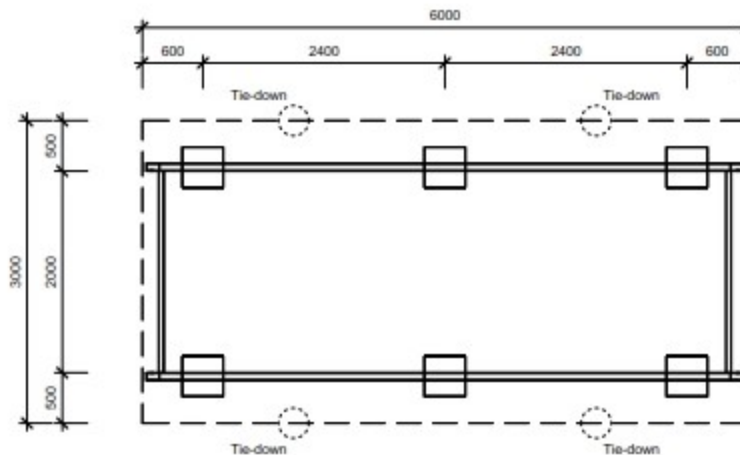
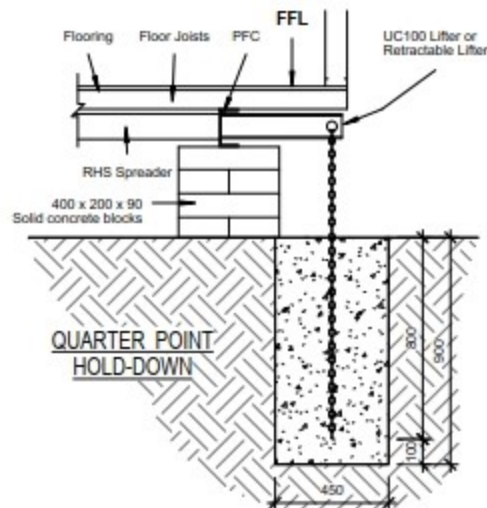




1 Footing Layout
1 : 50



2 Hold Down - C2
1 : 20

WIND LOADS

UPLIFT - Region C2 = 2.85kPa

$18m^2 \times 2.85 = 51.3kN$

FOUNDING MATERIAL: GRAVELLY SANDY CLAY - FRICTION RESISTANCE 20kPa

IGNORE TOP 100mm OF PILE

FRICTION RESISTANCE FOR 450mm DIAM PILE = $1.413 \times 0.7 \times 20kPa \times 0.8(fos) = 15.8kN$

SELF WEIGHT OF CONCRETE PILES .159*0.8*24kN/m3 = 3kN

4 PIERS = $(15.8+3) \times 4 = 75.2kN > 51.3kN$ therefore footings suitable for C2 loading



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ATCO Structures & Logistics Pty Ltd recommends that all buildings be secured appropriately. For further information on your specific project, please refer to your ATCO representative or a Registered Structural Engineer.

- Concrete strength to be 20MPa at 28 days
- Footing shown for sand & clay (Classes "A" - "E" per AS2870)
- If "rock" encountered (depth under 800mm) provide 2 x Ø16mm rock bolts - Embed at least 600mm into sound material
- Sub-structure requires minimum safe bearing pressure at founding level of 125kPa

Registered Professional Engineer 590704
Mr Sean F. Edwards
MIE Aust CP Eng (Civil/Structural)
RPEQ No 6138
NT-6PQCE: 26006CS
RBP (Vic) EC37116
Signature: Date: 1/03/24
I am a Registered Professional Engineer in the field of Civil / Structural

Rev No.	Description	Date	By	THIS DRAWING REMAINS THE PROPERTY OF ATCO STRUCTURES & LOGISTICS PTY. LTD. IT MAY NOT BE REPRODUCED OR COPIED WHOLE OR IN PART WITHOUT WRITTEN AUTHORITY	QUALITY CERTIFIED TO AS/NZS ISO 9001:2000 BY SCI-QUAL INTERNATIONAL REGN No. 531	PROJECT No.	DATE	SCALE	DRAWN	CHECKED	TITLE	DESIGN WIND LOAD	REVISION	SHEET SIZE
-	-	-	-			6.0 x 3.0m Lunchroom Standard Hire Specification	April 2010	As indicated	RA		Foundation Plan	C2	-	A3
											DRAWING NUMBER			
											LR-018-H-C2- 04			

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