

**VS 1 / VS 2**

Plan view: 25 cm width, 30 cm height. Top reinforcement: 3 N2 Ø10 C=548. Bottom reinforcement: 3 N1 Ø10 C=548. Spacing: 227 cm between vertical lines, 12.5 cm from edges.

**Corte A**

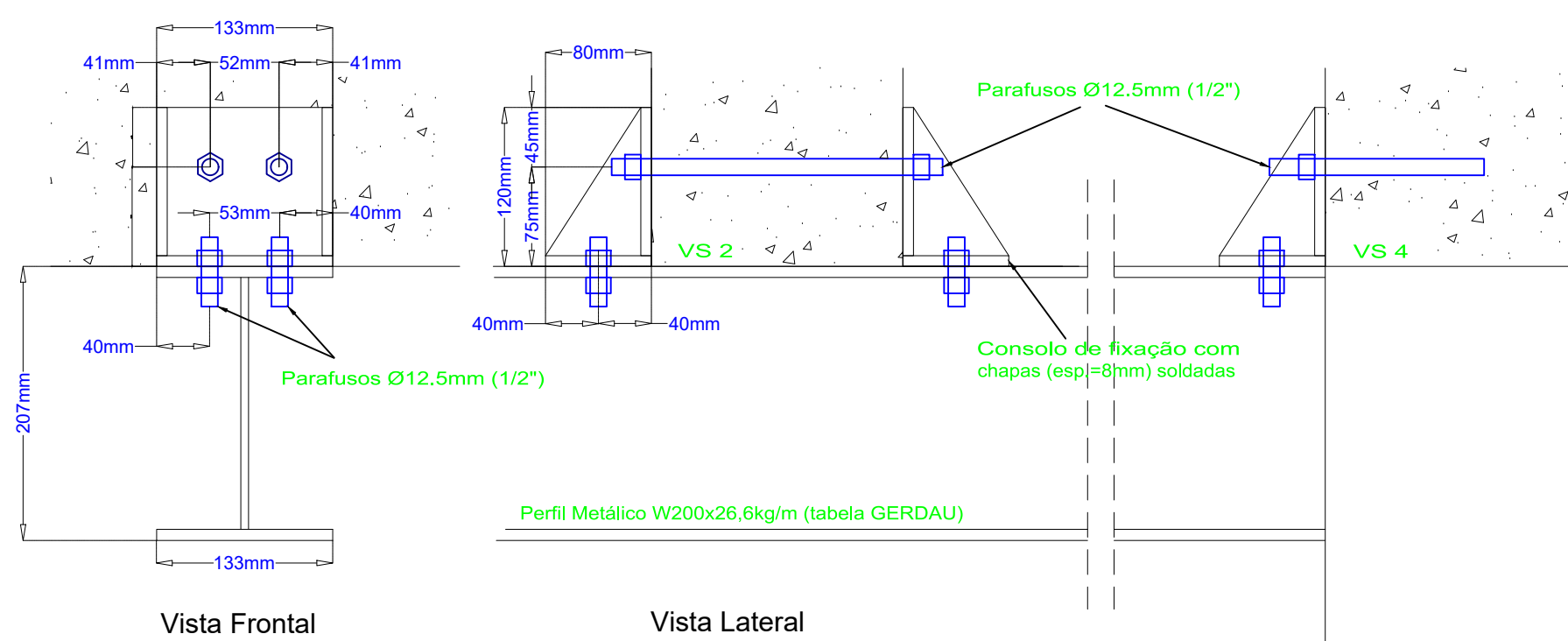
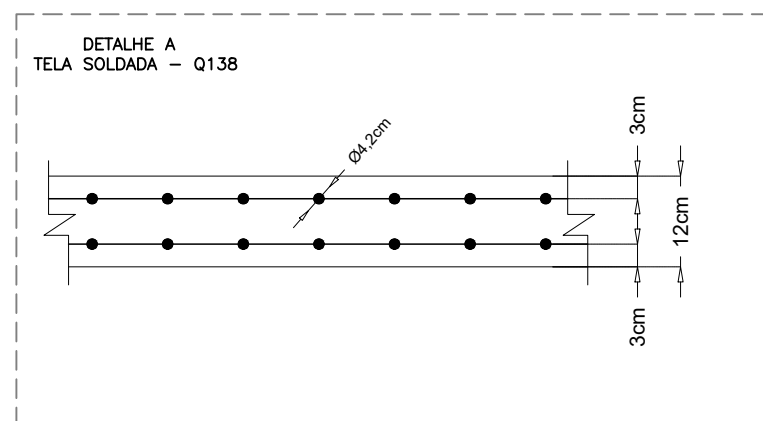
30 cm height, 20 cm width. 35 N3 Ø5 C=90.

**VS 3 / VS 4**

Plan view: 25 cm width, 35 cm height. Top reinforcement: 3 N2 Ø10 C=468. Bottom reinforcement: 3 N1 Ø10 C=468. Spacing: 187.5 cm between vertical lines, 12.5 cm from edges.

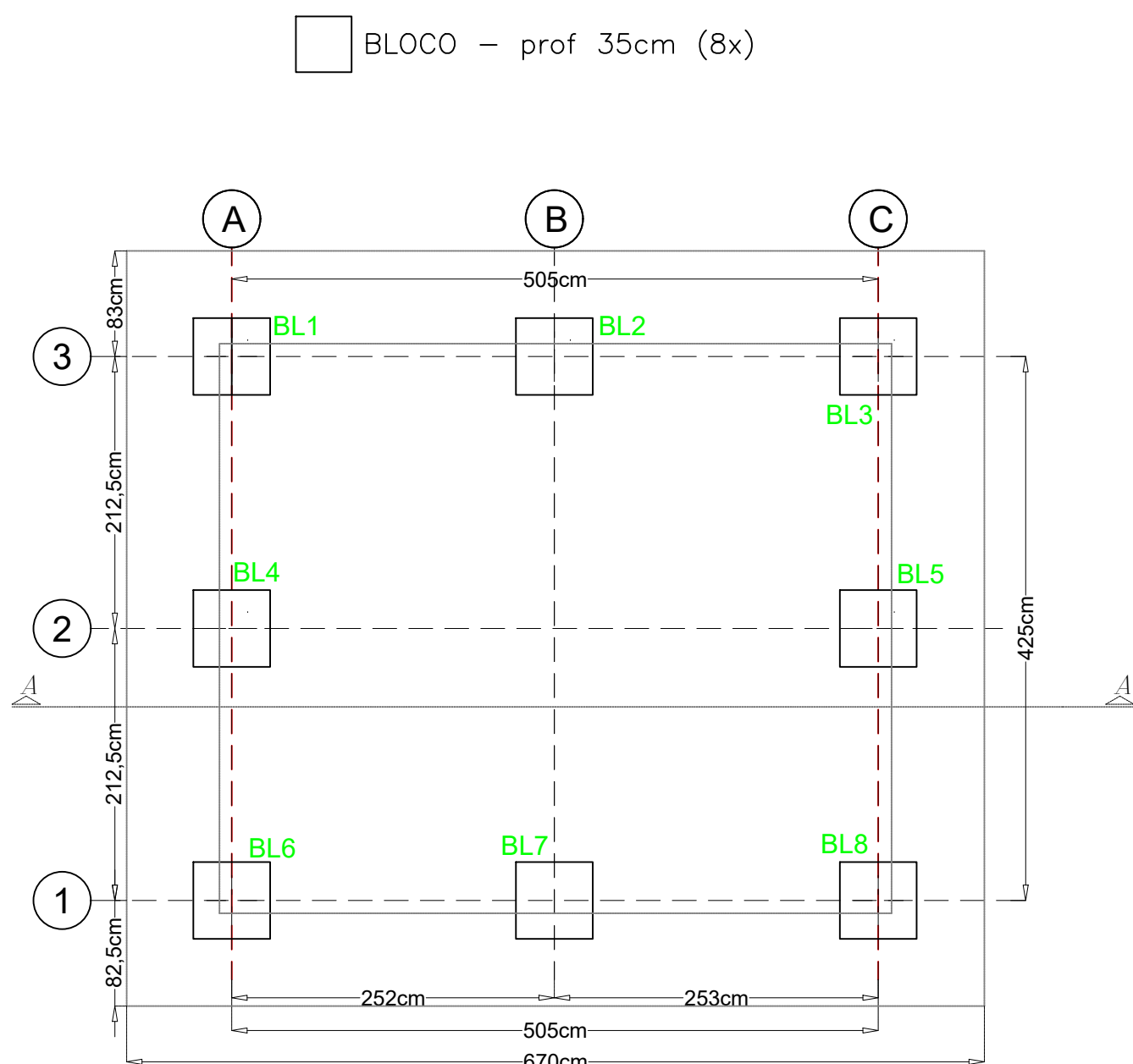
**Corte A**

35 cm height, 20 cm width. 28 N3 Ø5 C=90.

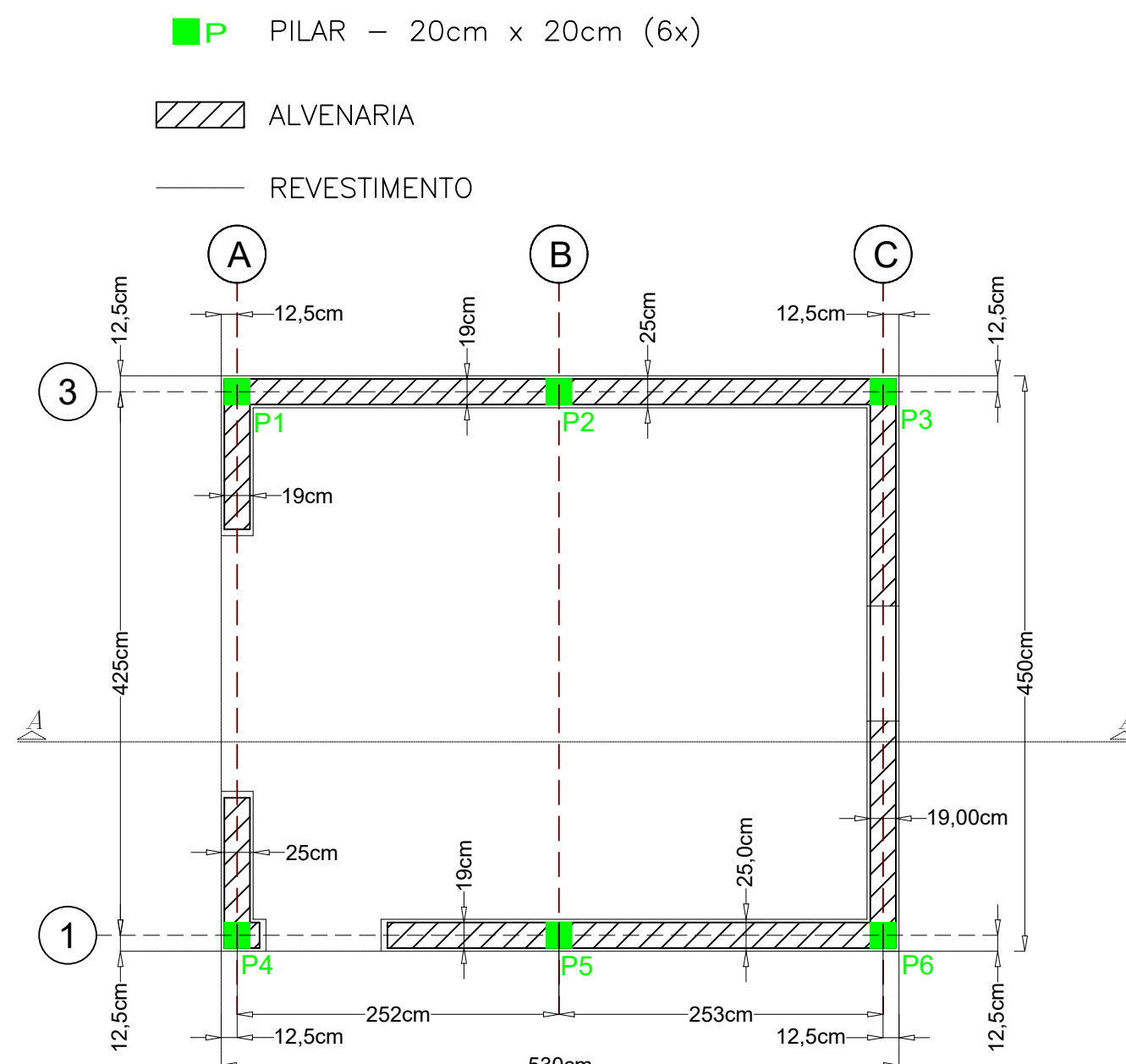


### Detalhe do Perfil Metálico para Monovia

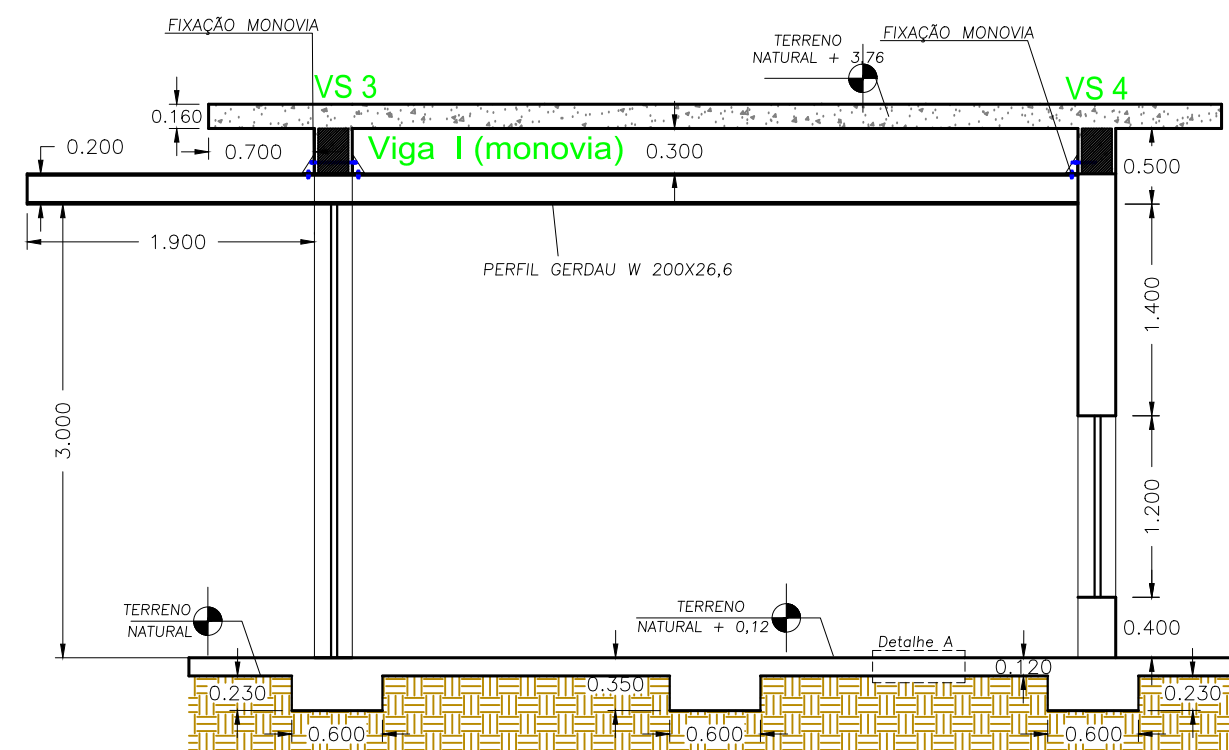
**OBSERVAÇÕES :**  
 1- Estrutura em aço carbono SAE 1020 ( $F_y=180\text{MPa}$   
 $F_u=370\text{MPa}$ )  
 2 - Para ligações soldadas utilizar eletrodos E-70XX, de  
 acordo com AWS D1.1/92, com espessura efetiva do  
 cordão solda superior a 4mm junto às chapas  
 3 - Parafusos ASTM-A307



Locação de Blocos e Forma da Fundação  
ESCALA 1:50



Forma alvenaria e pilares  
ESCALA 1:50

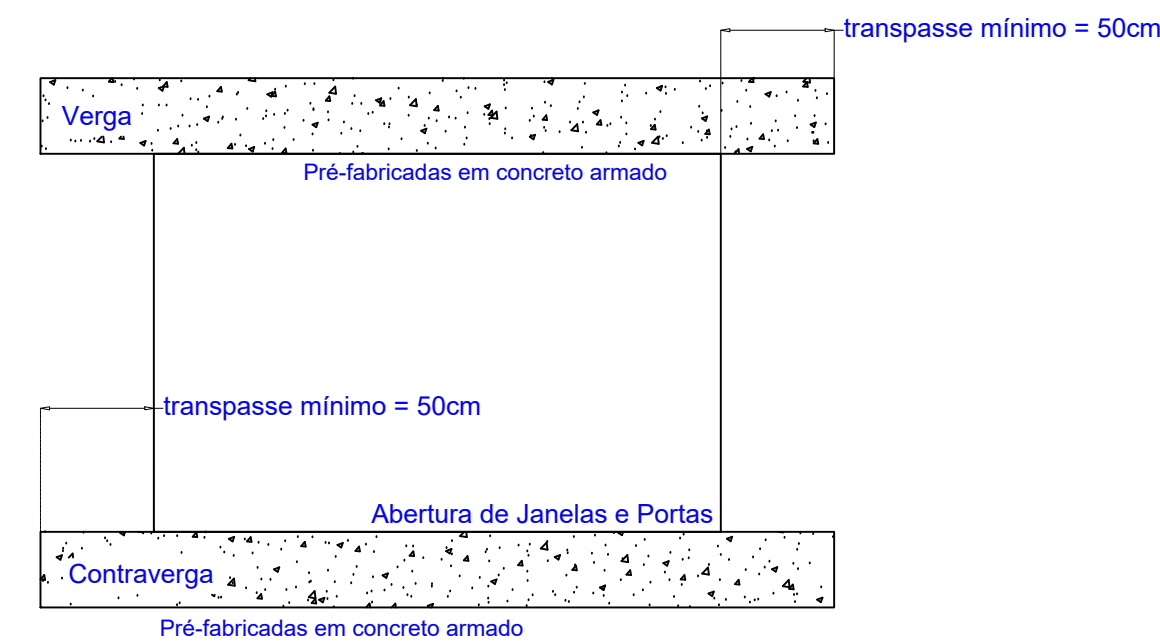


Corte AA  
ESC 1:50

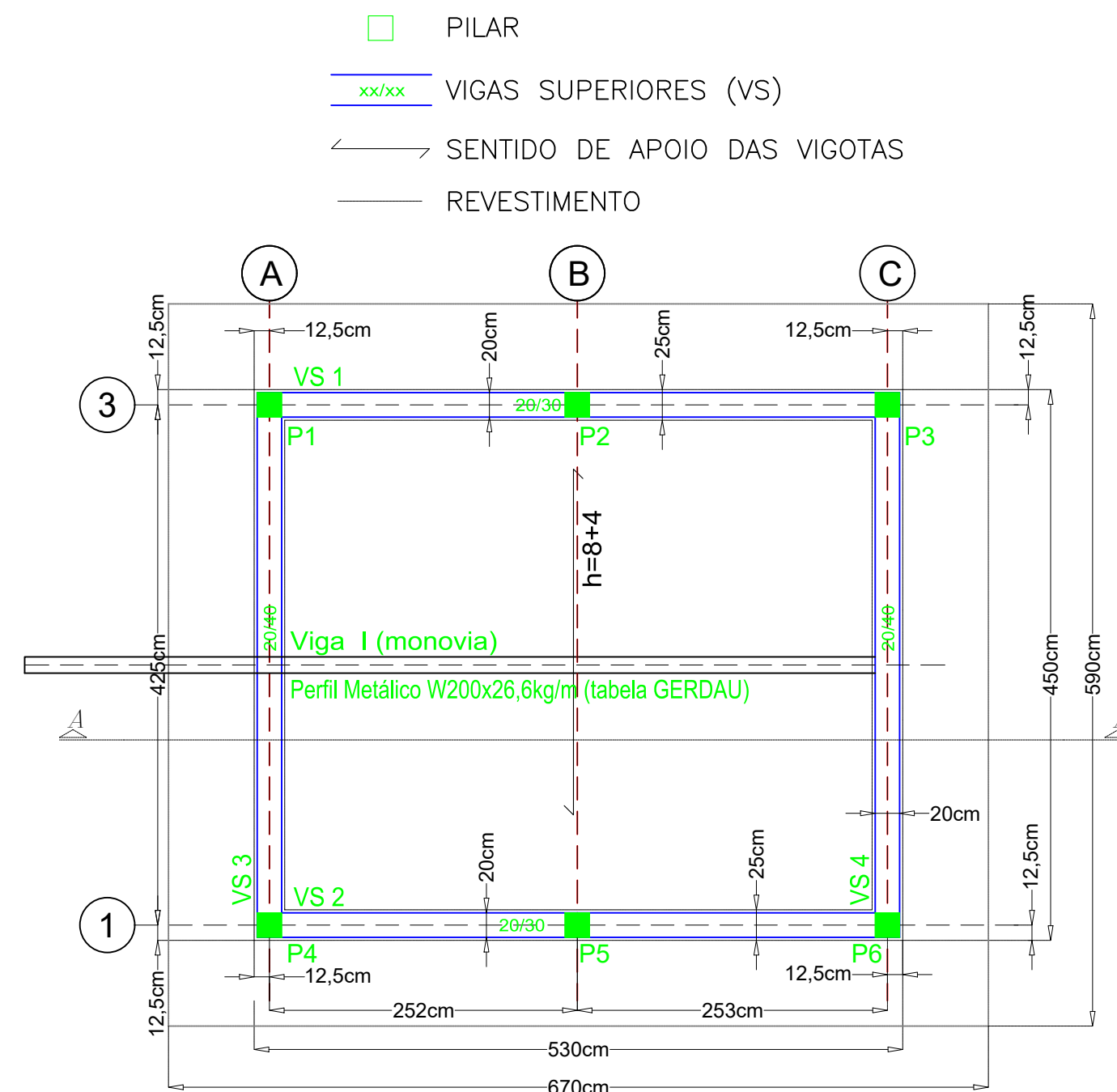
QUANTIDADES DE AÇO PARA BLOCOS DE FUNDAÇÃO							
Pos.	Diam.	Q.	Dob. Reta (cm)	Dob. (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)
1	Ø10	4	30	64	30	124	496
2	Ø10	2	45	45	45	180	360
<b>Total:</b>							5,28
Concreto C-25							(x6): 31,68

DIMENSÕES	ARMAÇÃO
<p>0,600</p> <p>0,600</p> <p>PROFUNDIDADE 35cm</p>	<p>64</p> <p>30</p> <p>30</p> <p>64</p> <p>4ø10</p> <p>45</p> <p>45</p> <p>2ø10</p>

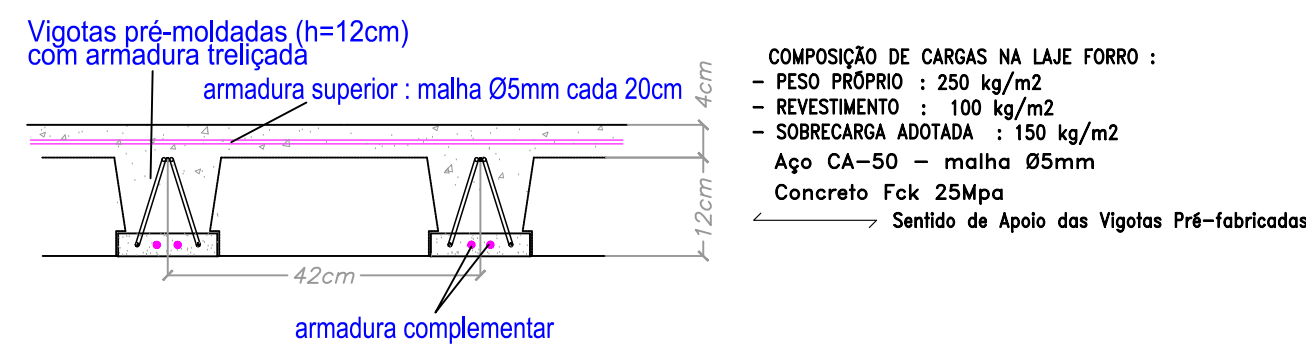
DETALHE DO BLOCO  
S/ESCALA



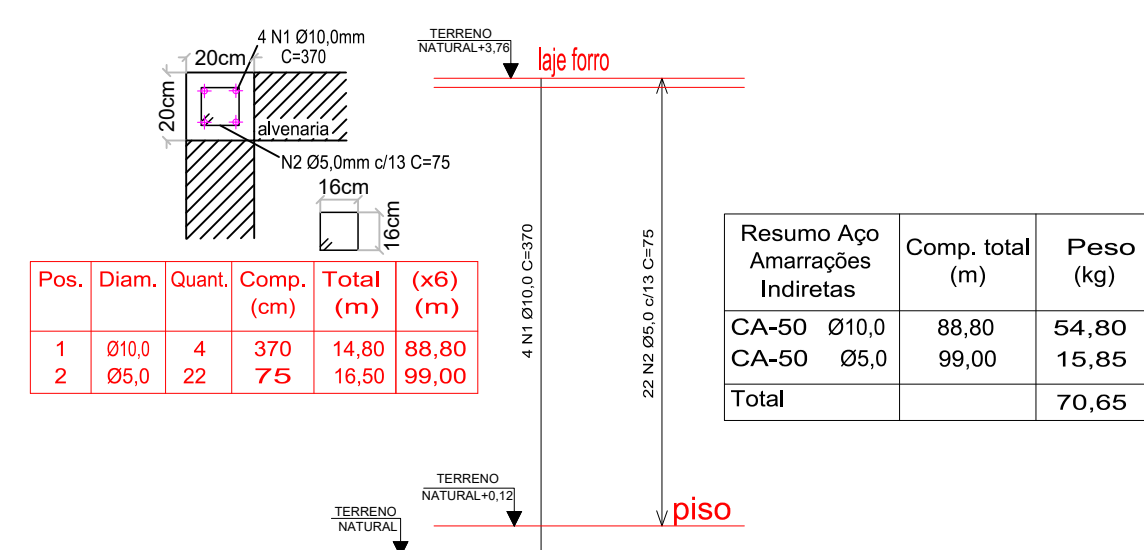
## Detalhe de vergas e contravergas



Forma vigas superiores e laje forro  
 ESCALA 1:50

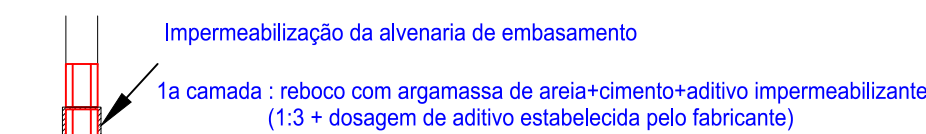


### Detalhe típico da laje pré-fabricada para forro



### Detalhamento do Pilar (6x)

Sem Escala



### Detalhes da Impermeabilização

QUANTIDADES DE AÇO PARA VIGAS DE SUPERIORES										
Elemento	Pos.	Diam.	Q.	Dob. (cm)	Reta (cm)	Dob. (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
VS 1 = VS 2	1	Ø10	3	12	524	12	548	1644	10,1	
	2	Ø10	3	12	524	12	548	1644	10,1	
	3	Ø5	34				100	3400		5,4
	Total:							20,20	5,90	
	(x2):							40,40	11,80	
VS 3 = VS 4	1	Ø10	3	12	444	12	468	1404	8,7	
	2	Ø10	3	12	444	12	468	1404	8,7	
	3	Ø5	28				100	2800		4,5
	Total:							17,40	4,50	
	(x2):							34,80	9,00	
Concreto C-25								Ø5:	0,0	20,80
								Ø10:	75,20	0,0
								Total:	75,20	20,80

[illegible]