

LOCAL P/  
CX. DRAGUA

Telhas fibrocimento  
incl. 10%

2.1000

Telhas fibrocimento  
incl. 10%

Telhas fibrocimento  
incl. 10%

calha

calha

calha

calha



1 2 3 4 5 6

A

B

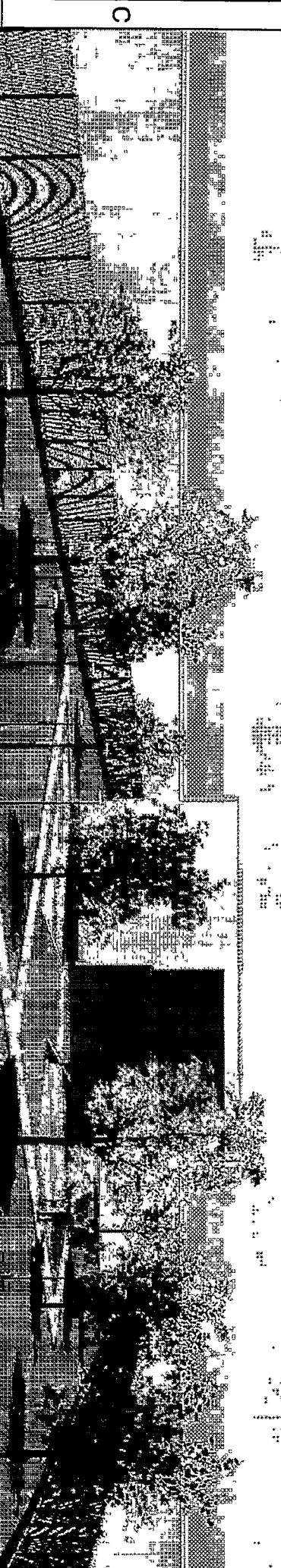
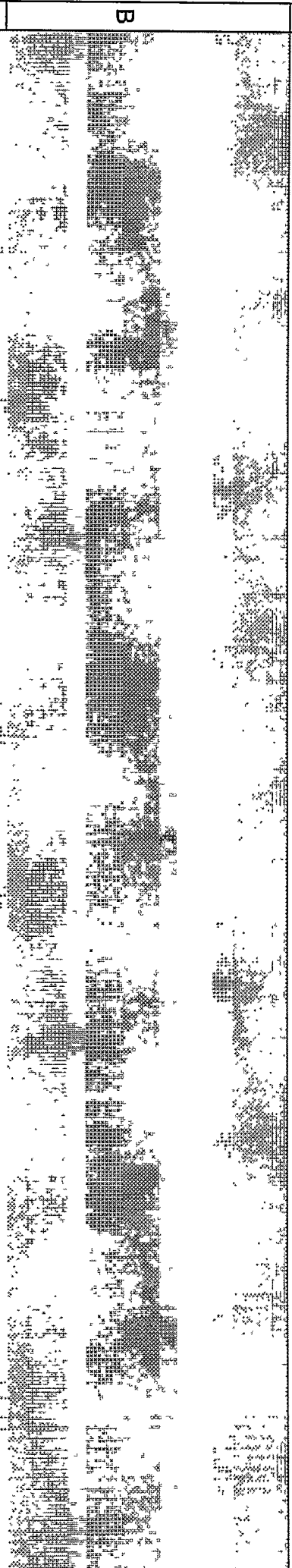
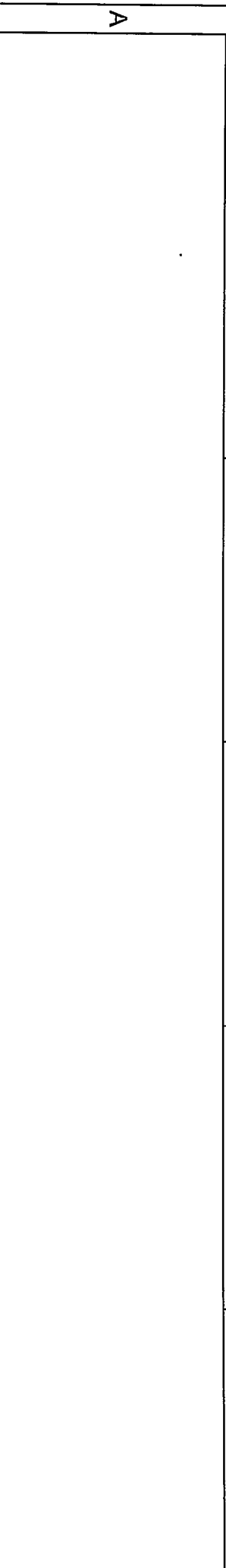
C

D

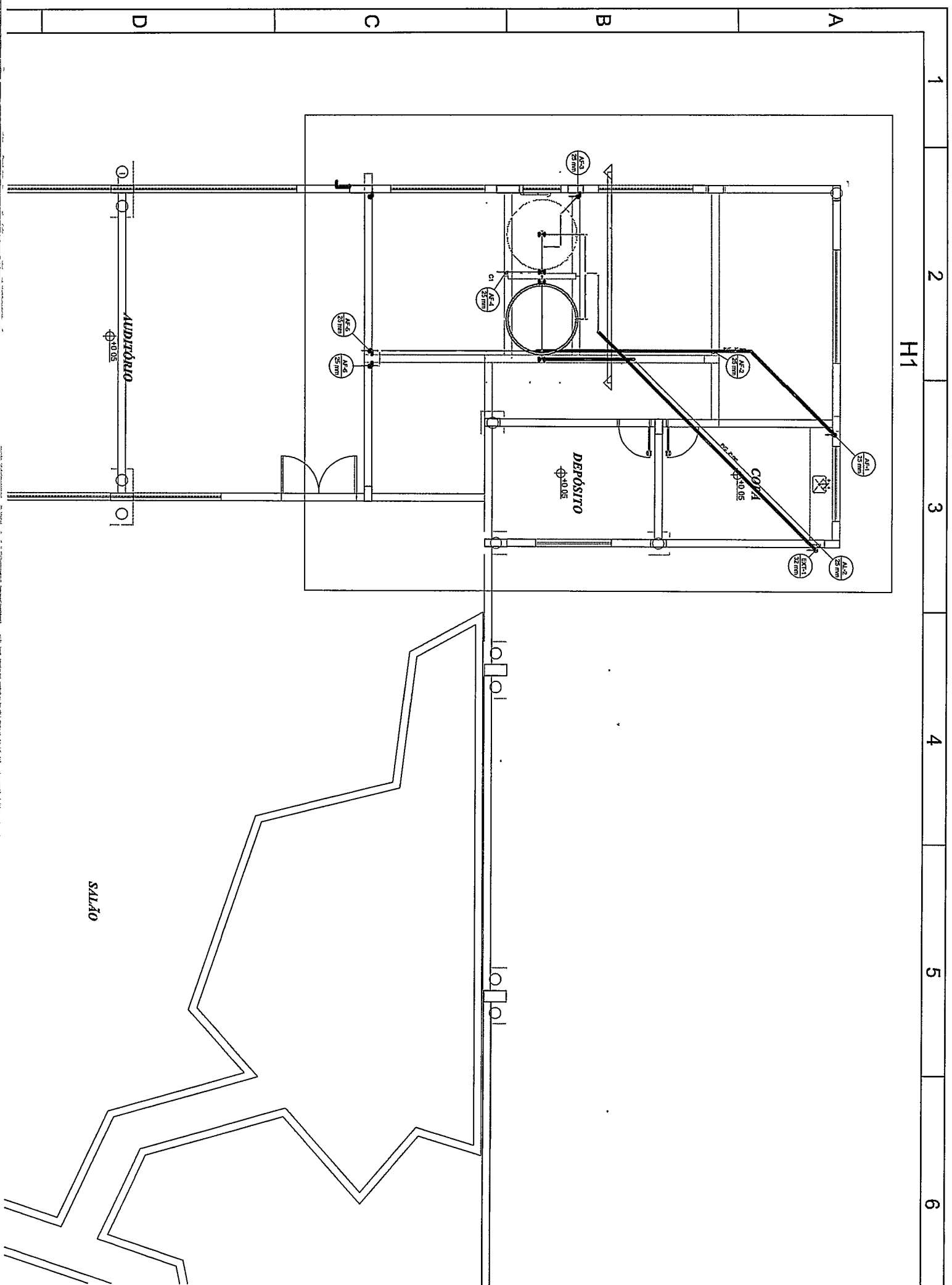
2  
3



1 2 3 4 5 6



H1



AL-1 25 mm

AL-2 25 mm

AL-3 25 mm

AL-4 25 mm

AL-5 25 mm

AL-6 25 mm

AL-7 25 mm

CADA  
Ø 10.05

DEPOSITO  
Ø 10.05

SALA

AL-1 25 mm

AL-2 25 mm

AL-3 25 mm

AL-4 25 mm

AL-5 25 mm

AL-6 25 mm

AL-7 25 mm

AL-8 25 mm

AL-9 25 mm

AL-10 25 mm

AL-11 25 mm

AL-12 25 mm

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AL-14 25 mm

AL-15 25 mm

AL-16 25 mm

AL-17 25 mm

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AL-252 25 mm

AL-253 25 mm

AL-254 25 mm

AL-255 25 mm

AL-256 25 mm

AL-257 25 mm

AL-258 25 mm

AL-259 25 mm

AL-260 25 mm

AL-261 25 mm

AL-262 25 mm

AL-263 25 mm

AL-264 25 mm

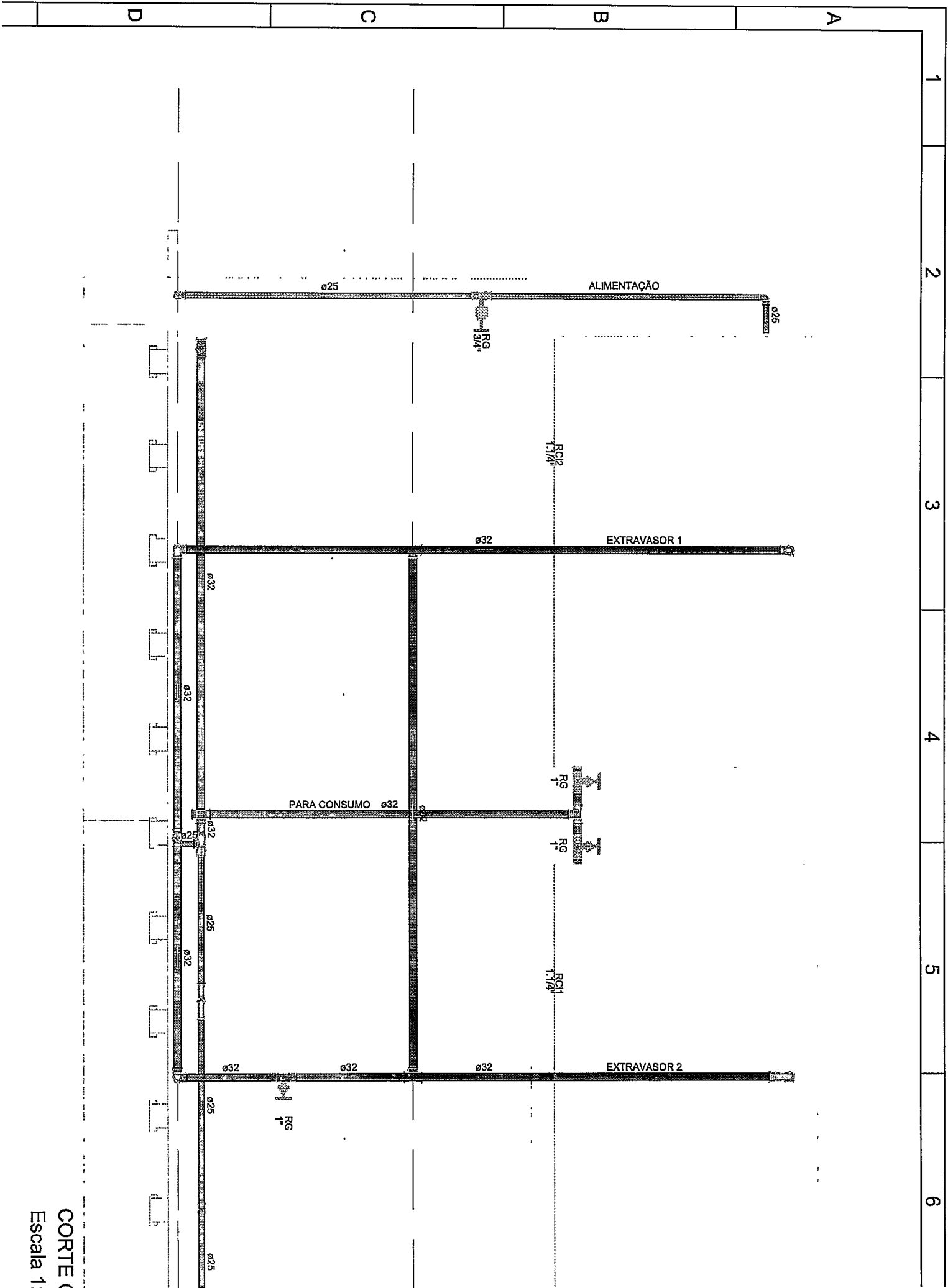
AL-265 25 mm

AL-266 25 mm

AL-267 25 mm

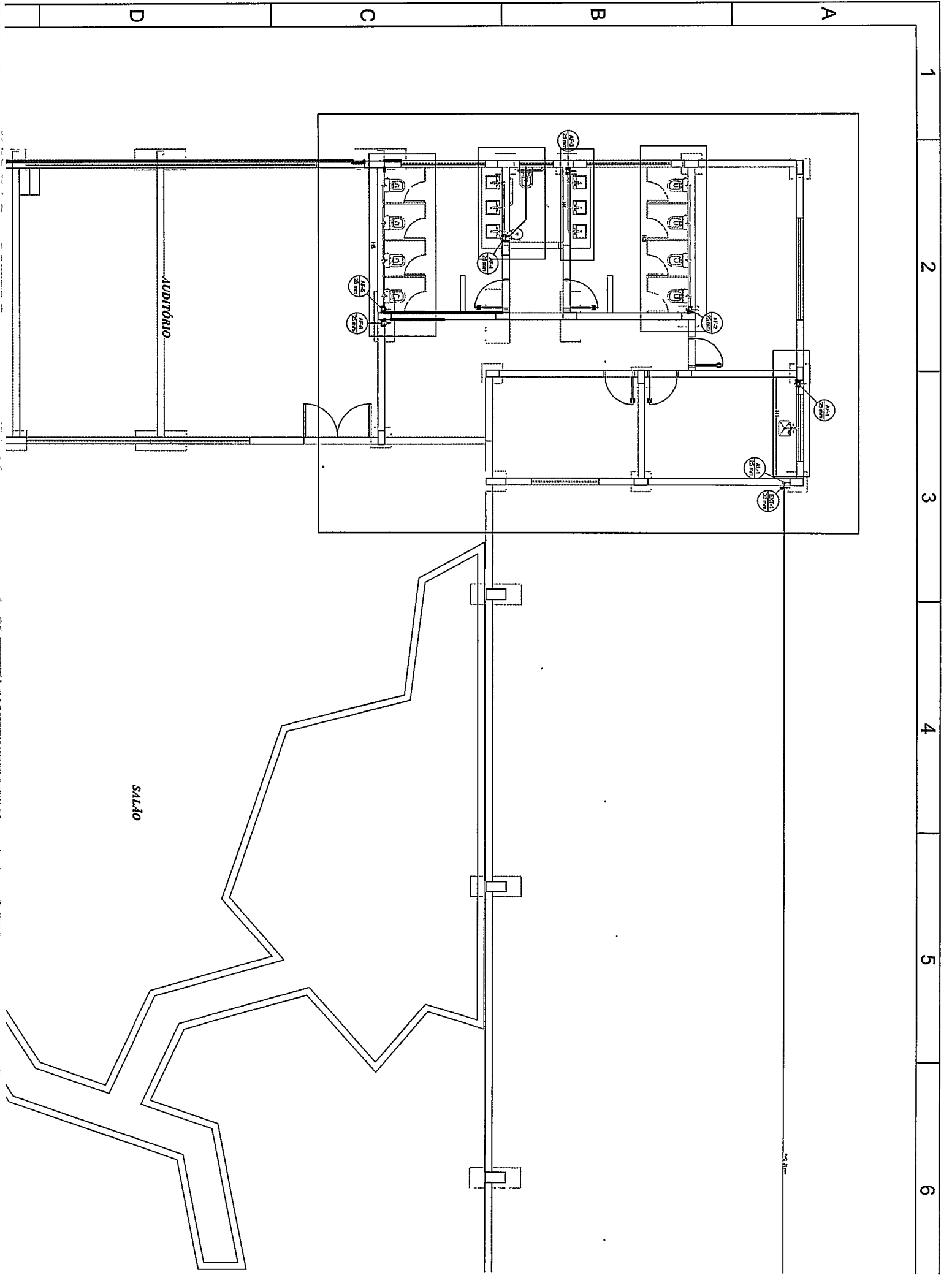
AL-268 25 mm

AL-26



CORTE (
   
 Escala 1:

4
   
 3



D

C

B

A

1

2

3

4

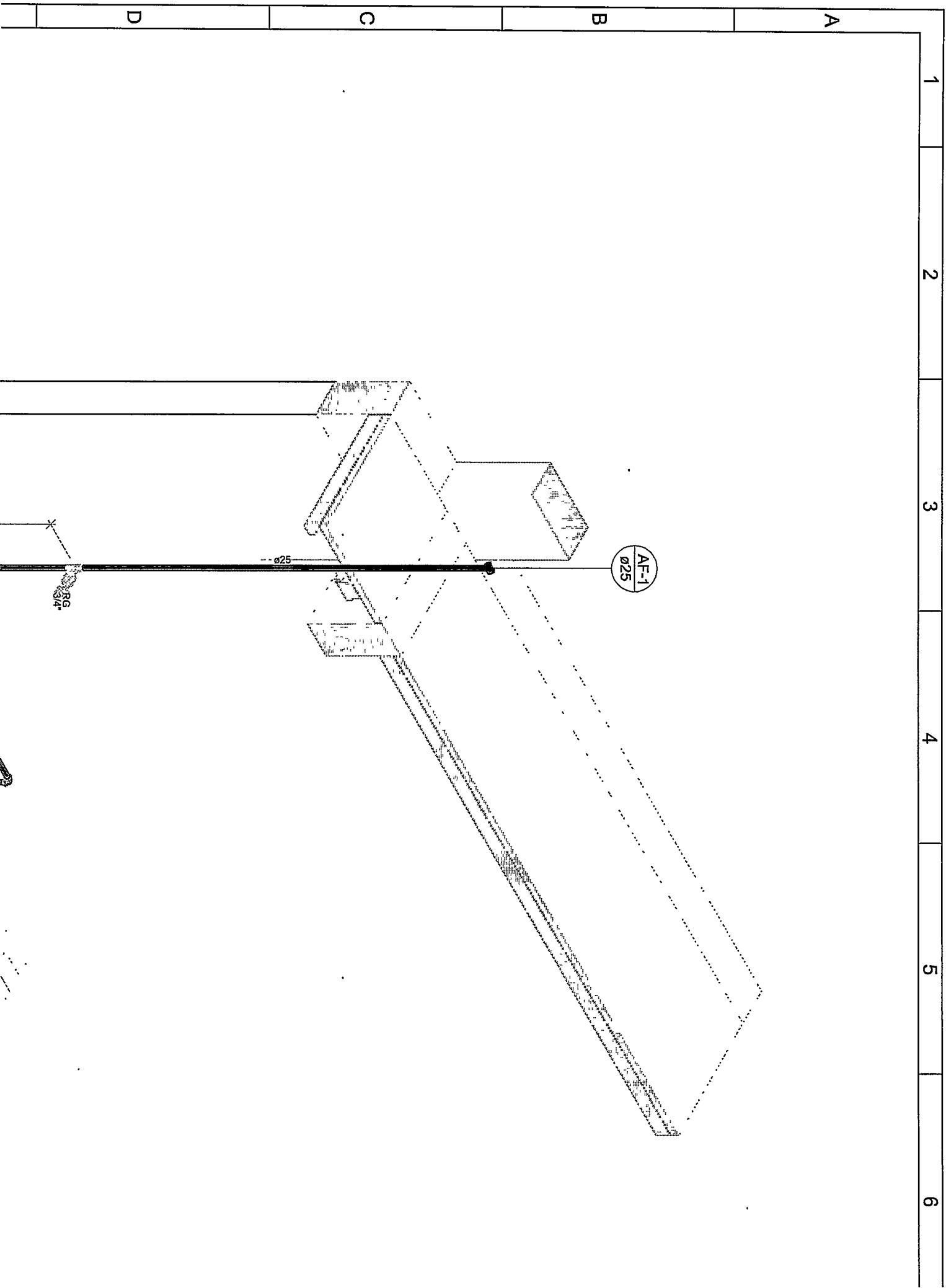
5

6

AUDITÓRIO

SALÃO

1/20



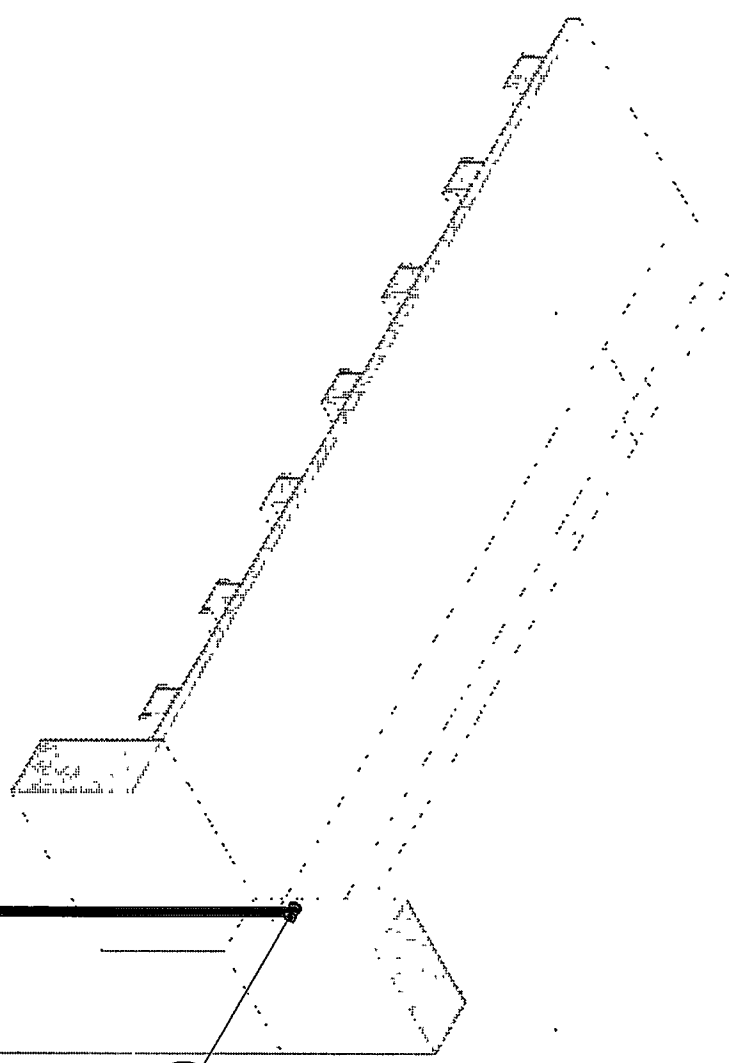
1 2 3 4 5 6

A

B

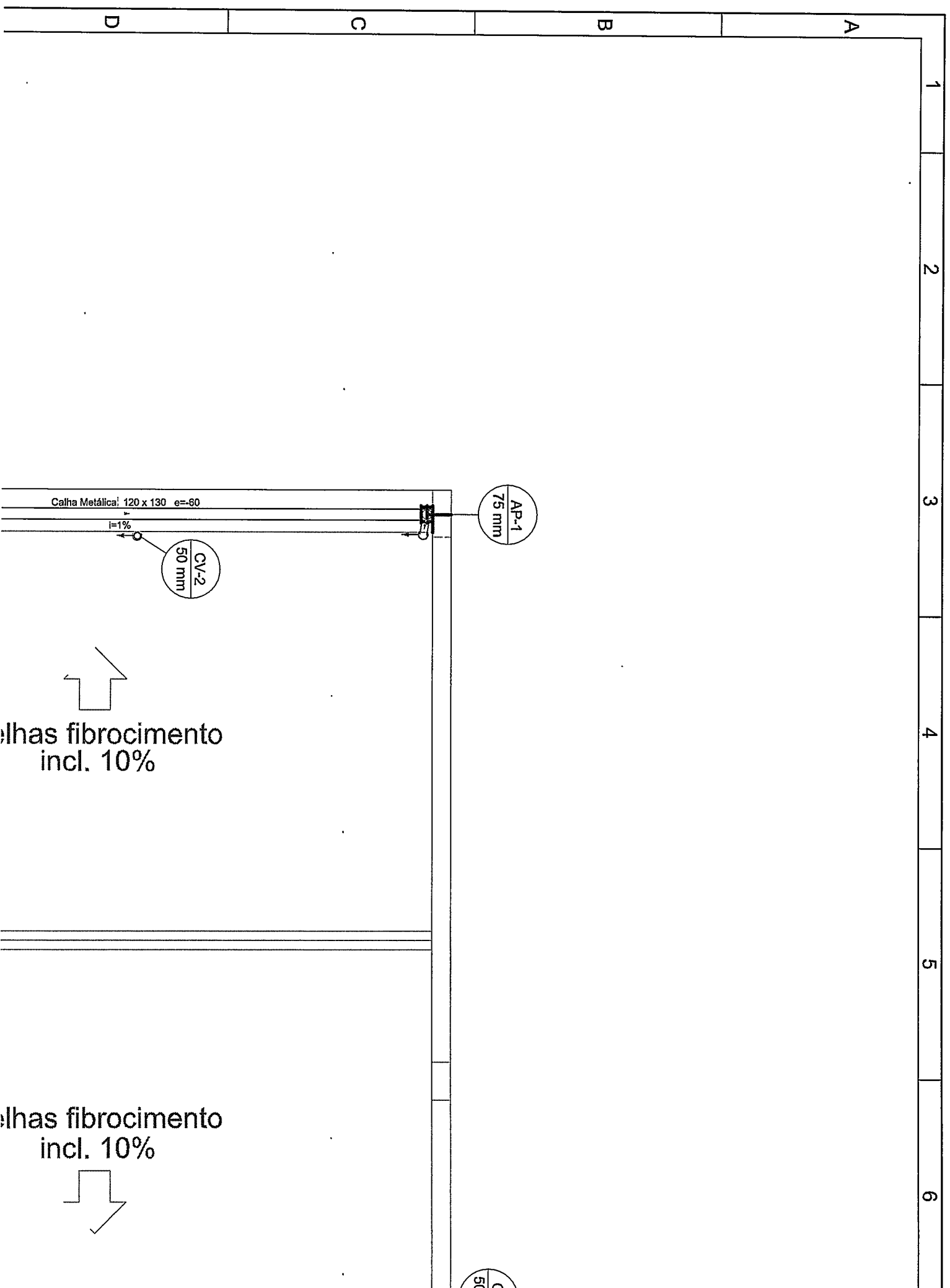
C

D



RG  
3/4"





A B C D

1 2 3 4 5 6

Calha Metálica: 120 x 130 e=-60

i=1%

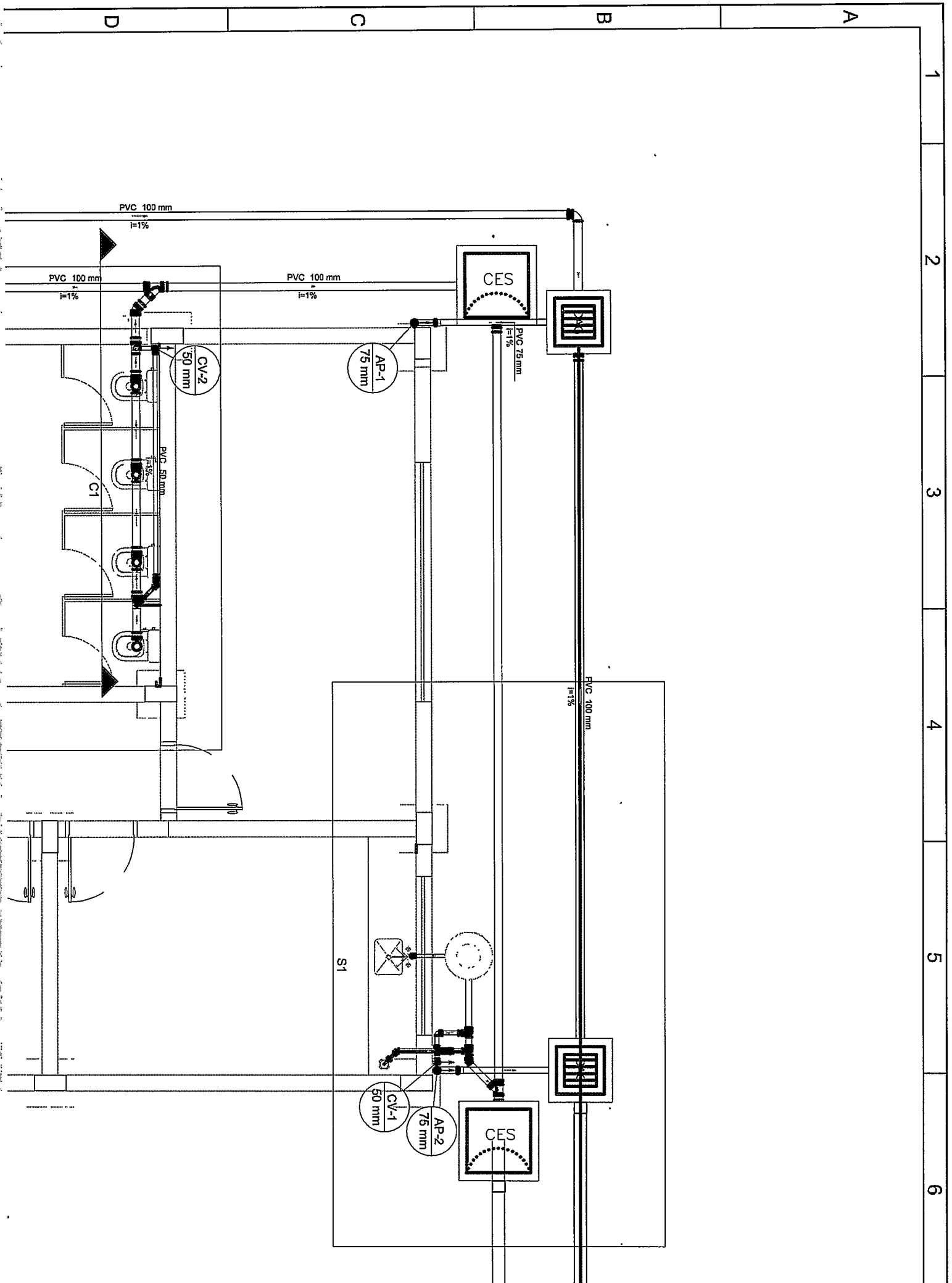
CV-2  
50 mm

AP-1  
75 mm

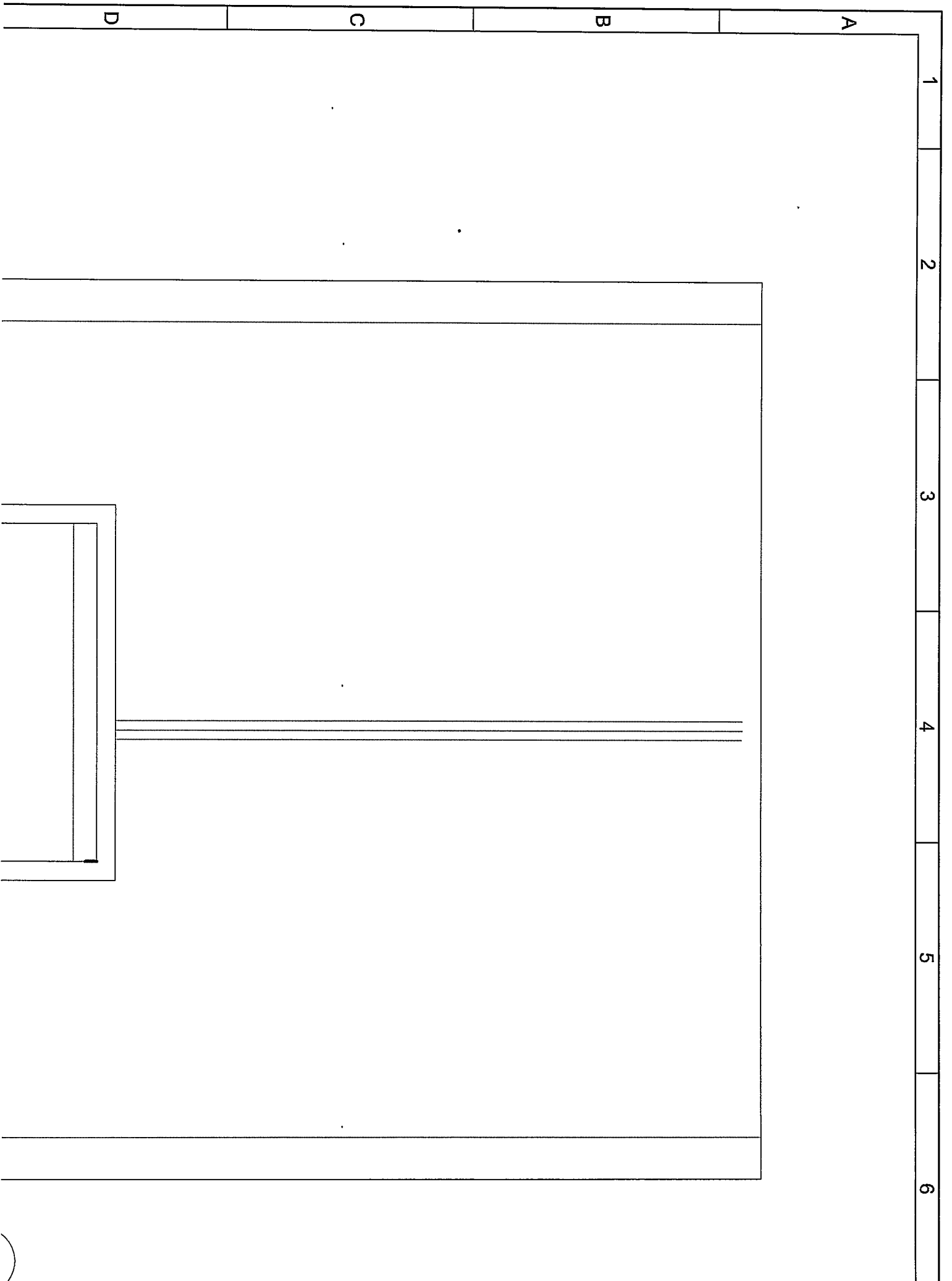
Plhas fibrocimento  
incl. 10%

Plhas fibrocimento  
incl. 10%

C-5C



2. 5.



)

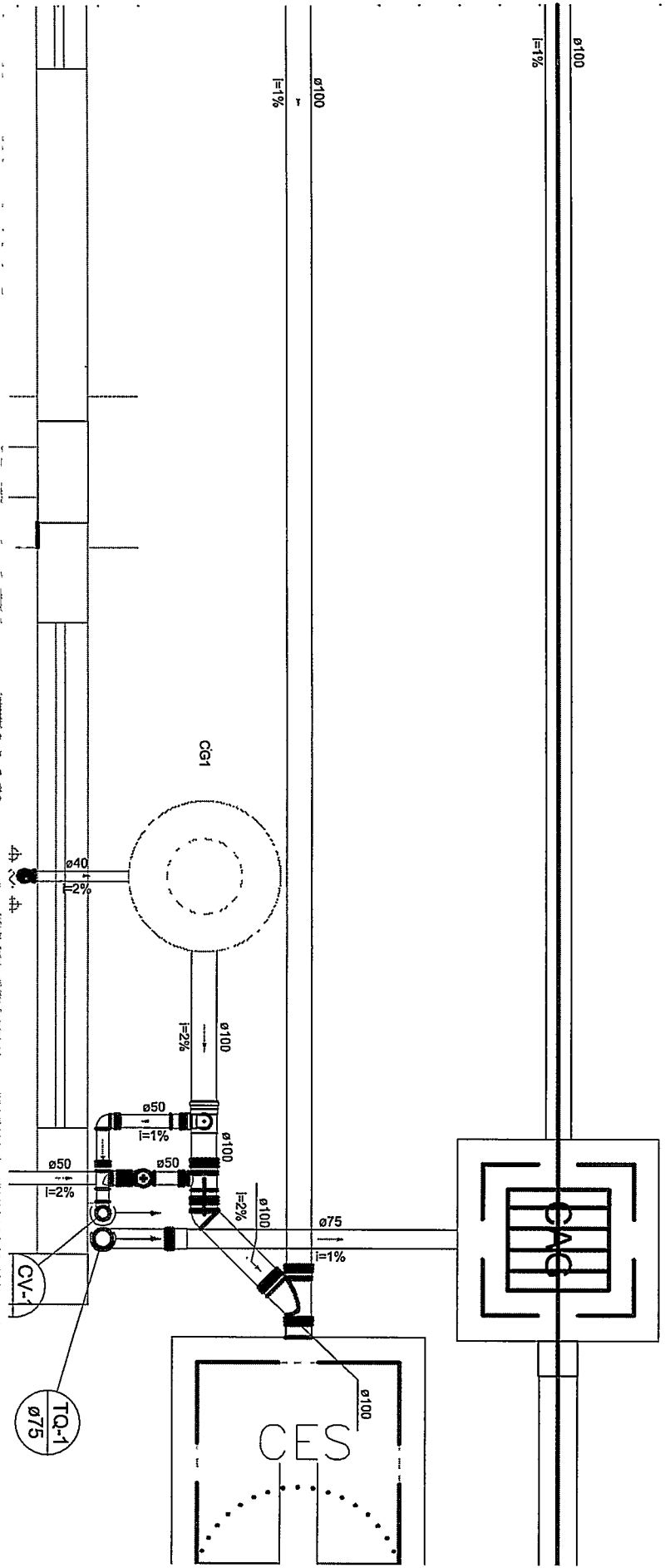
1 2 3 4 5 6

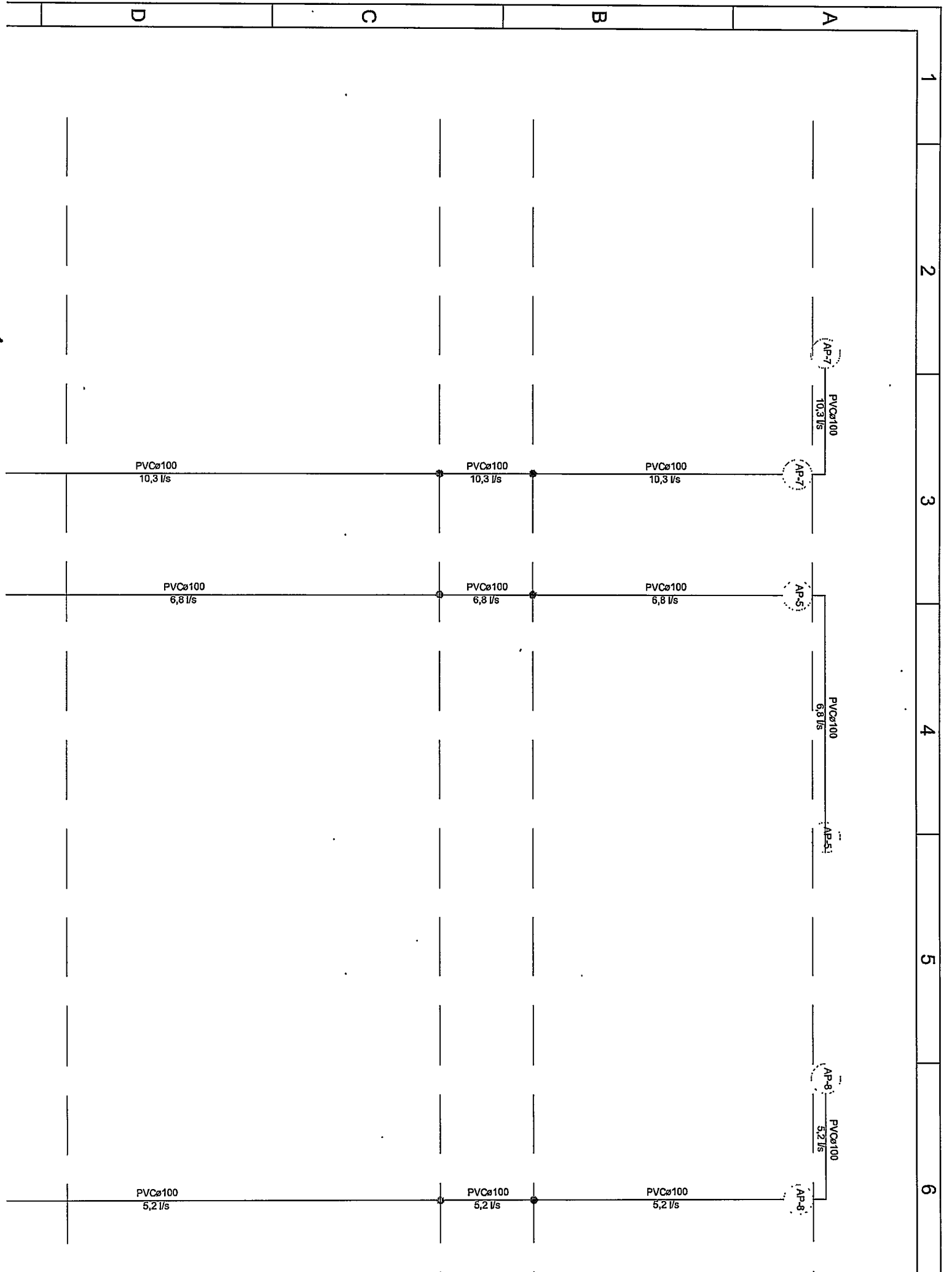
A

B

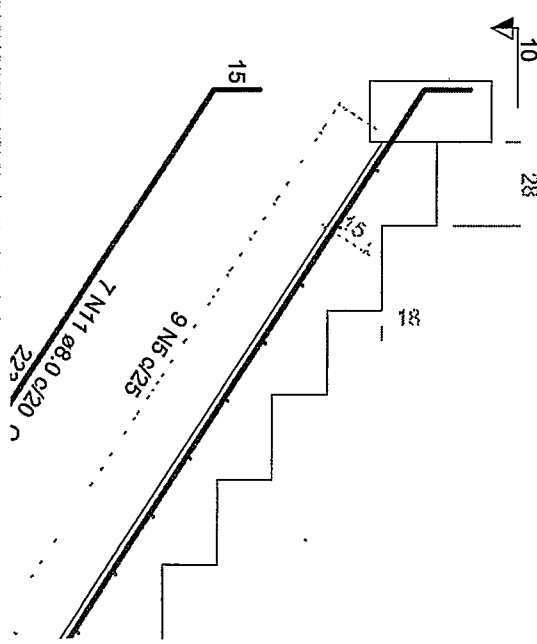
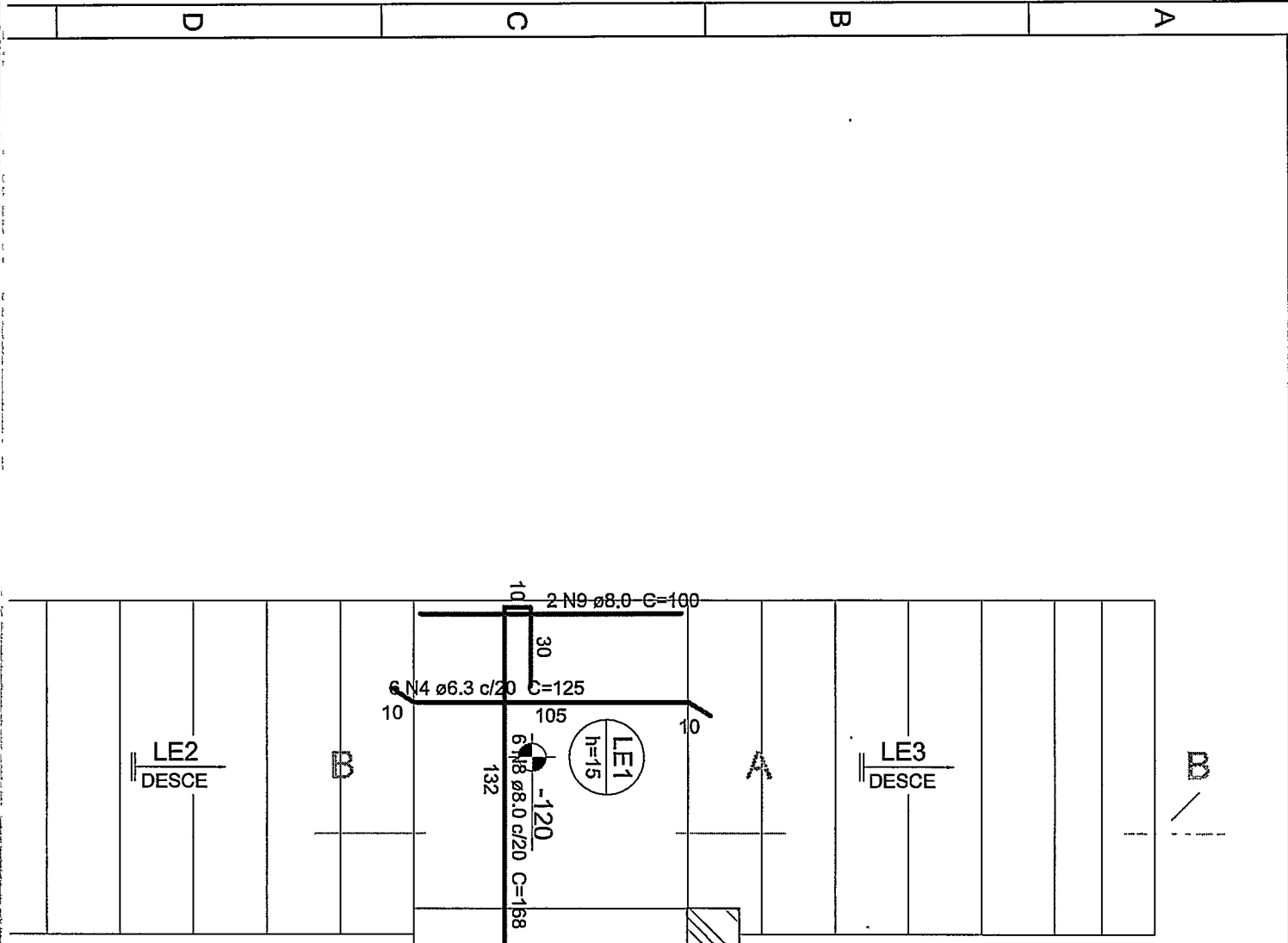
C

D





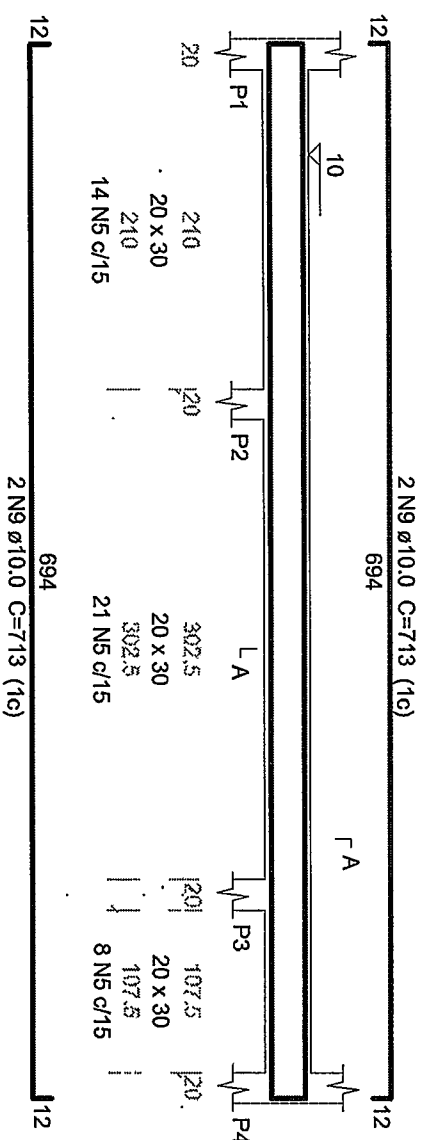
1 2 3 4 5 6





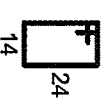
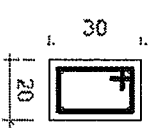
# V - 101

ESC 1:50



## SEÇÃO A-A

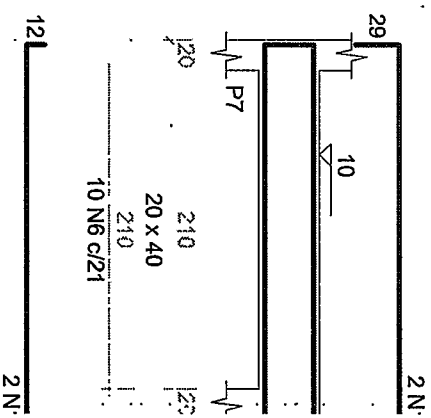
ESC 1:25



43 N5 ø6.3 C=88

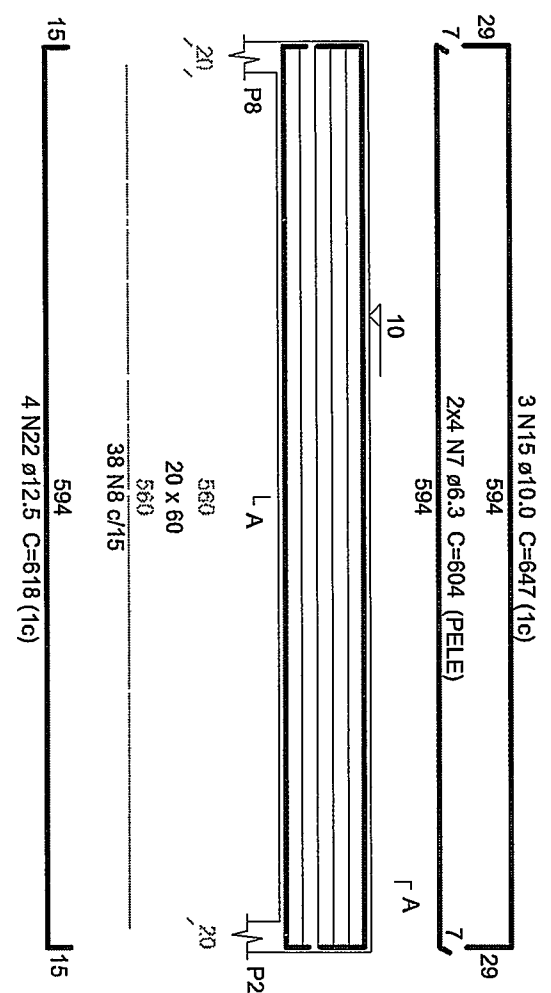
# V - 102

ESC 1:50



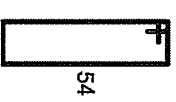
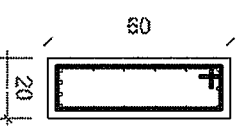
# V - 105

ESC 1:50



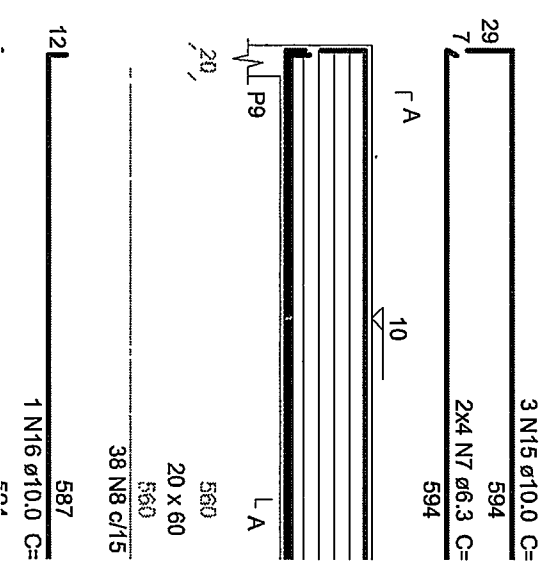
## SEÇÃO A-A

ESC 1:25

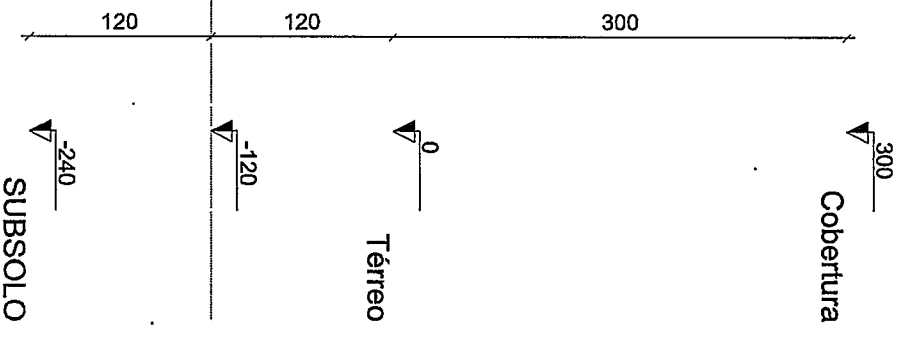
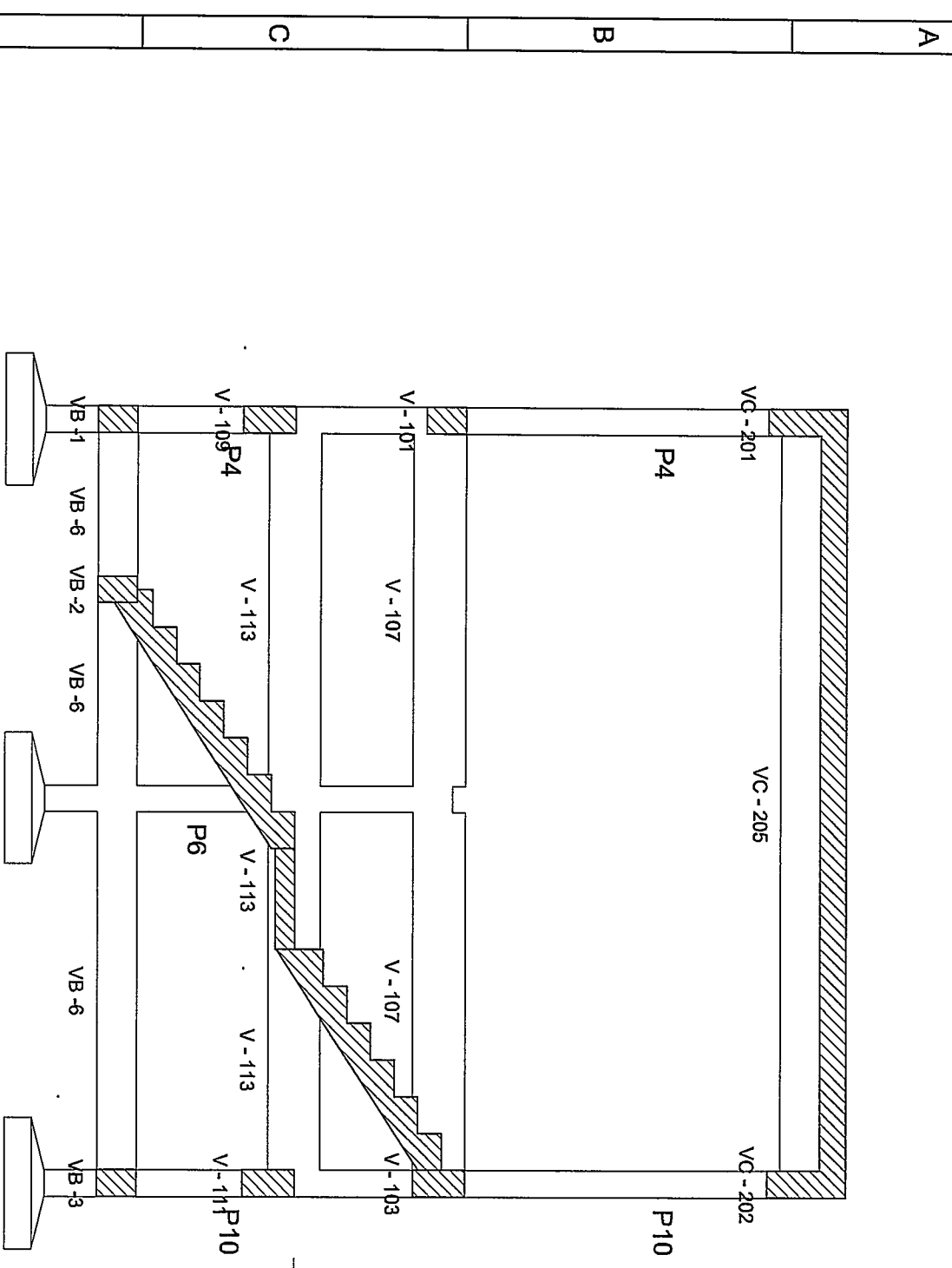


# V - 106

ESC 1:50

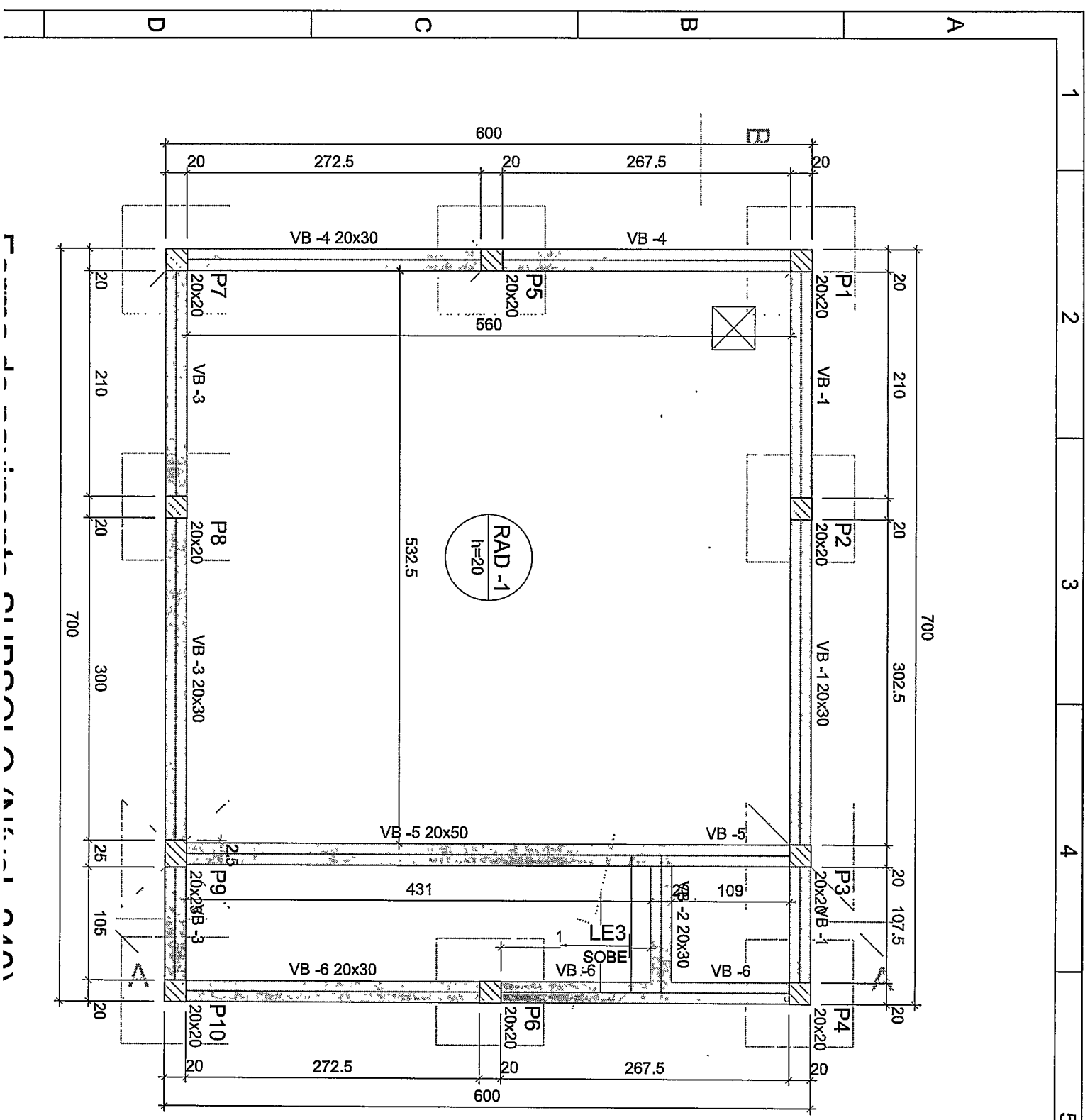


1 2 3 4 5 6



# Corte A-A

escala 1:50



Vigas		
Nome	Seção (cm)	Elevação (cm)
VB -1	20x30	0
VB -2	20x30	0
VB -3	20x30	0
VB -4	20x30	0
VB -5	20x50	0
VB -6	20x30	0

Nome	Tipo	Altura (cm)
RAD -1	Máçica	20

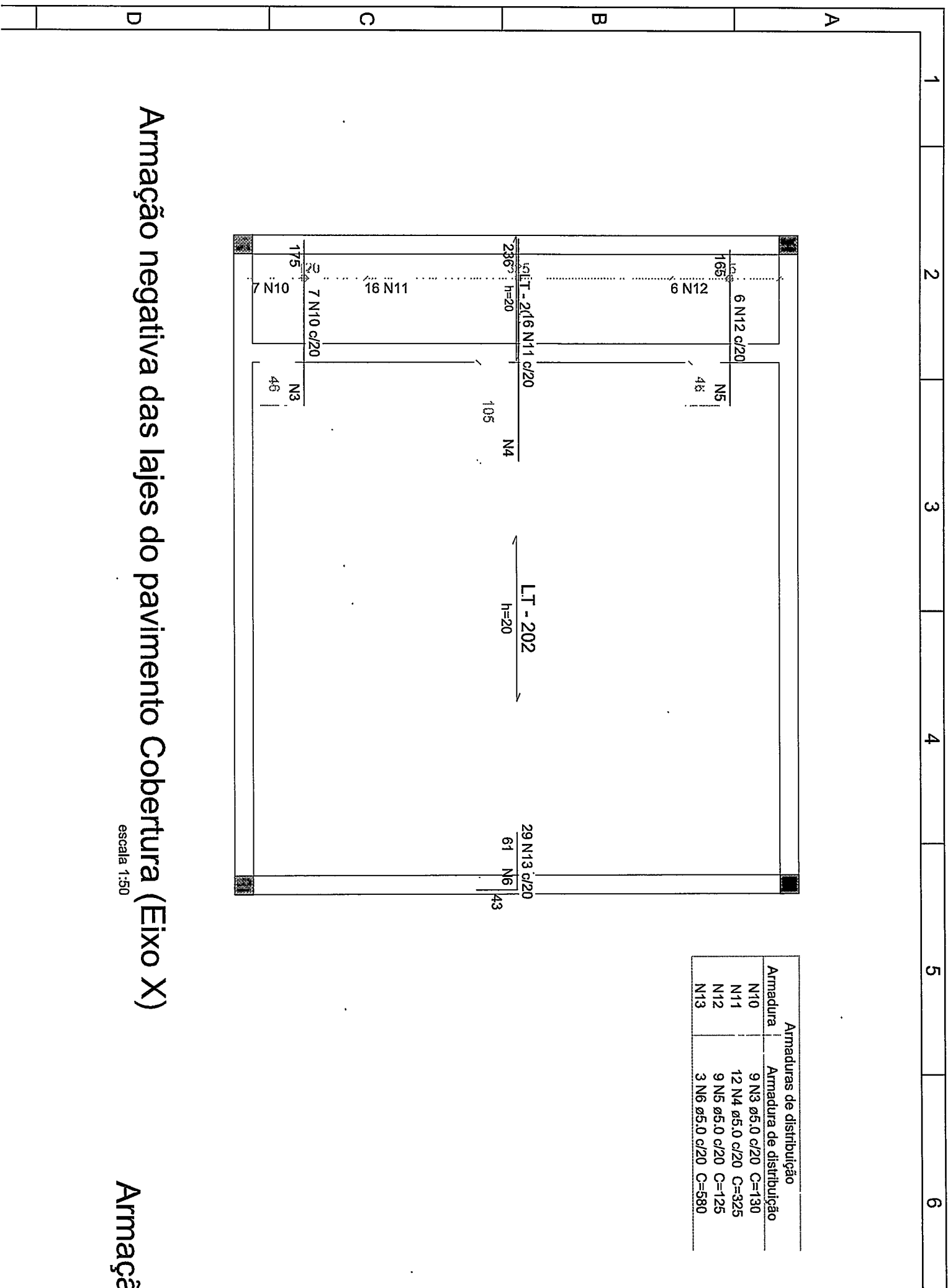
Tipo	Altura (cm)	Área d
Máçica	20	

Características dos materi:		
fck	Ecs	
(kgf/cm²)	(kgf/cm)	
250	24150f	

Dimensão máxima do agreg:

Pilares		
Nome	Seção (cm)	Elevação (cm)
P-1	20x20	0
P-2	20x20	0
P-3	20x20	0
P-4	20x20	0
P-5	20x20	0
P-6	20x20	0
P-7	20x20	0
P-8	20x20	0
P-9	20x25	0
P-10	20x20	0

Plano de Fundação e Fundação (1/20)



Armadura	Armaduras de distribuição
N10	9 N3 ø5,0 c/20 C=130
N11	12 N4 ø5,0 c/20 C=325
N12	9 N5 ø5,0 c/20 C=125
N13	3 N6 ø5,0 c/20 C=580

# Armação negativa das lajes do pavimento Cobertura (Eixo X)

escala 1:50

Armaçã

1

2

3

4

5

6

A

B

C

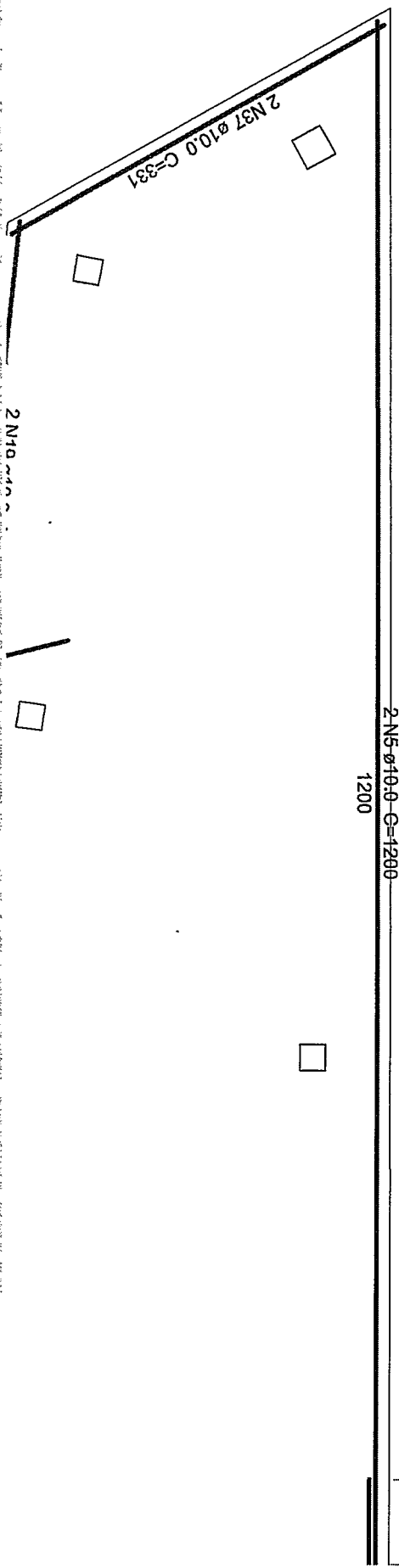
D

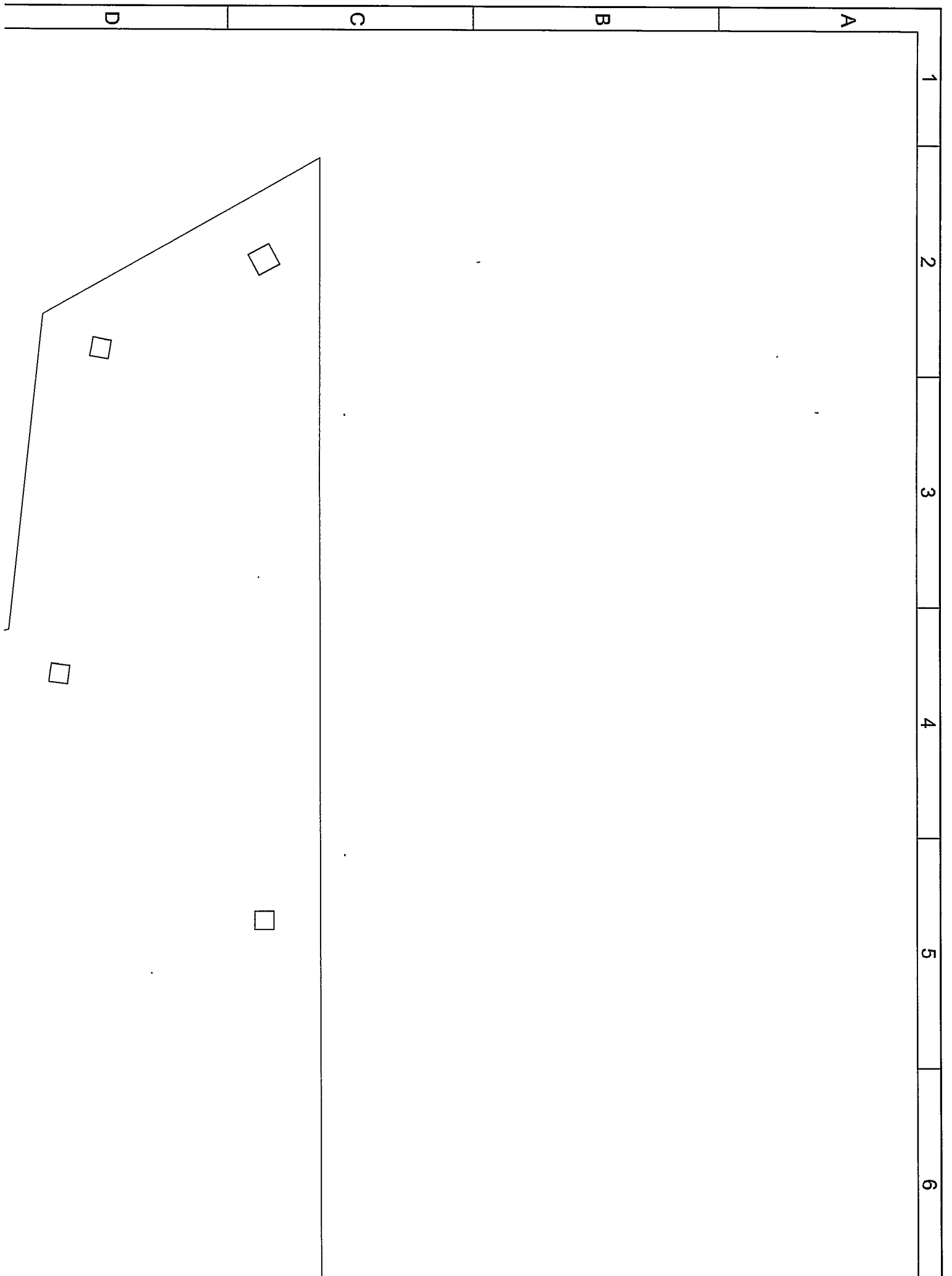
2 N37  $\phi$ 10.0 C=331

2 N10  $\phi$ 10.0

2 N5  $\phi$ 10.0 G=1200  
1200

50





1

2

3

4

5

6

A

B

C

D

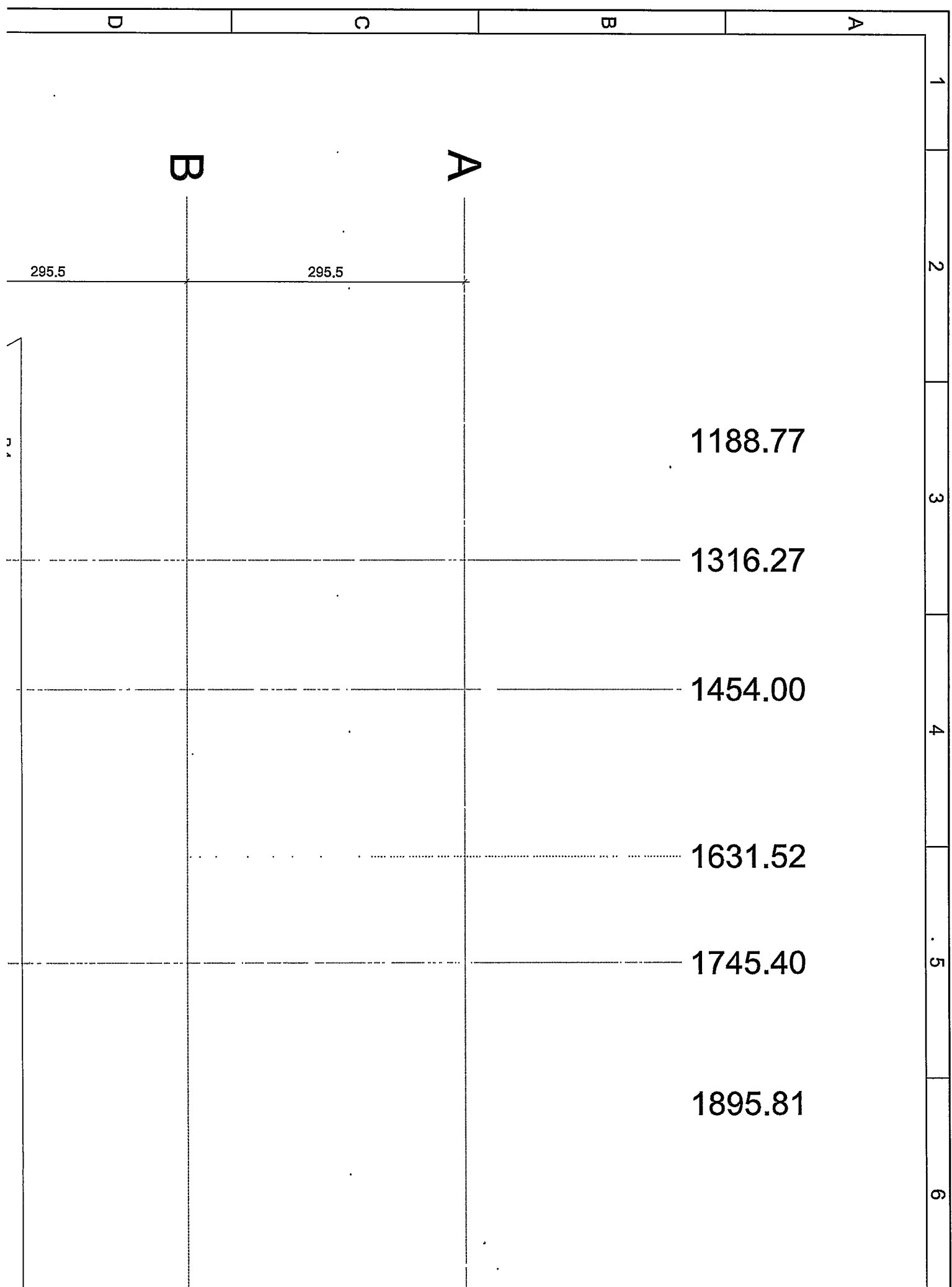
P 4(NASCE)

25x25

689.1

PAR-1

\* \*



4/ 2

1

2

3

4

5

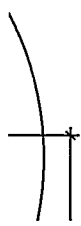
6

A

B

C

D



1 2 3 4 5 6

A

B

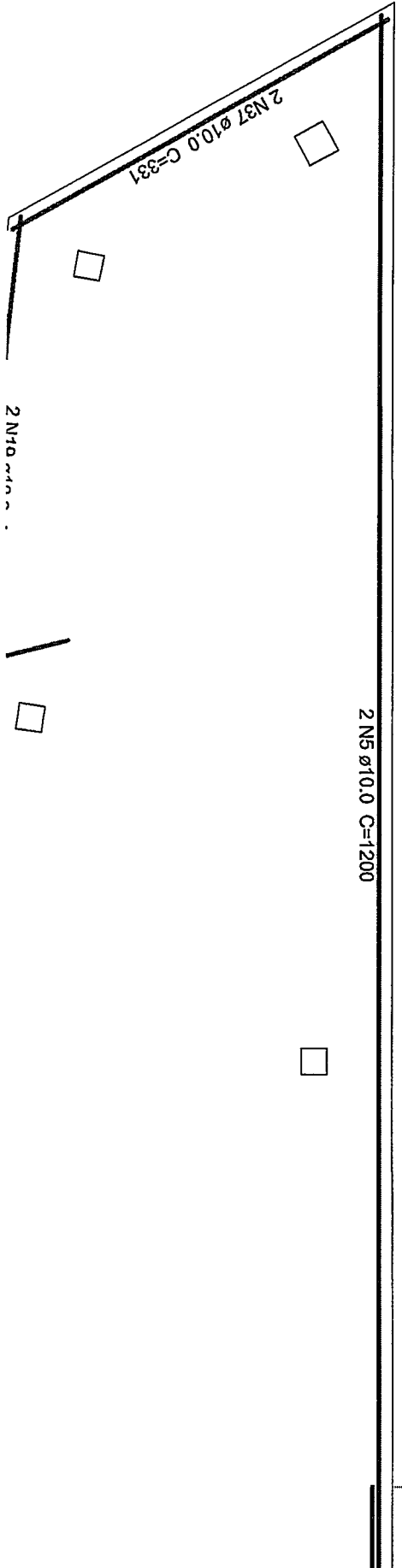
C

D

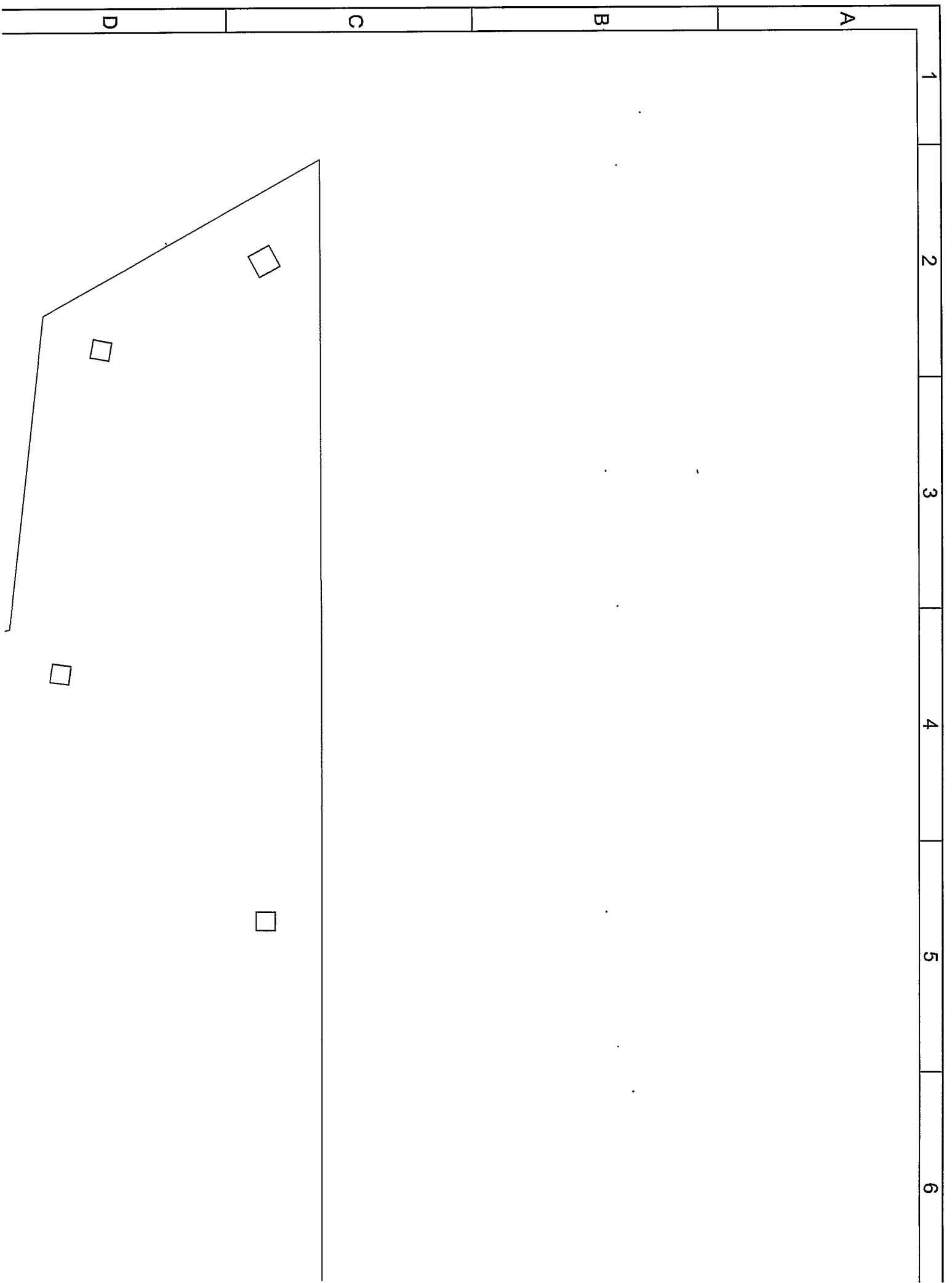
2 N37  $\phi$ 10.0 C=331

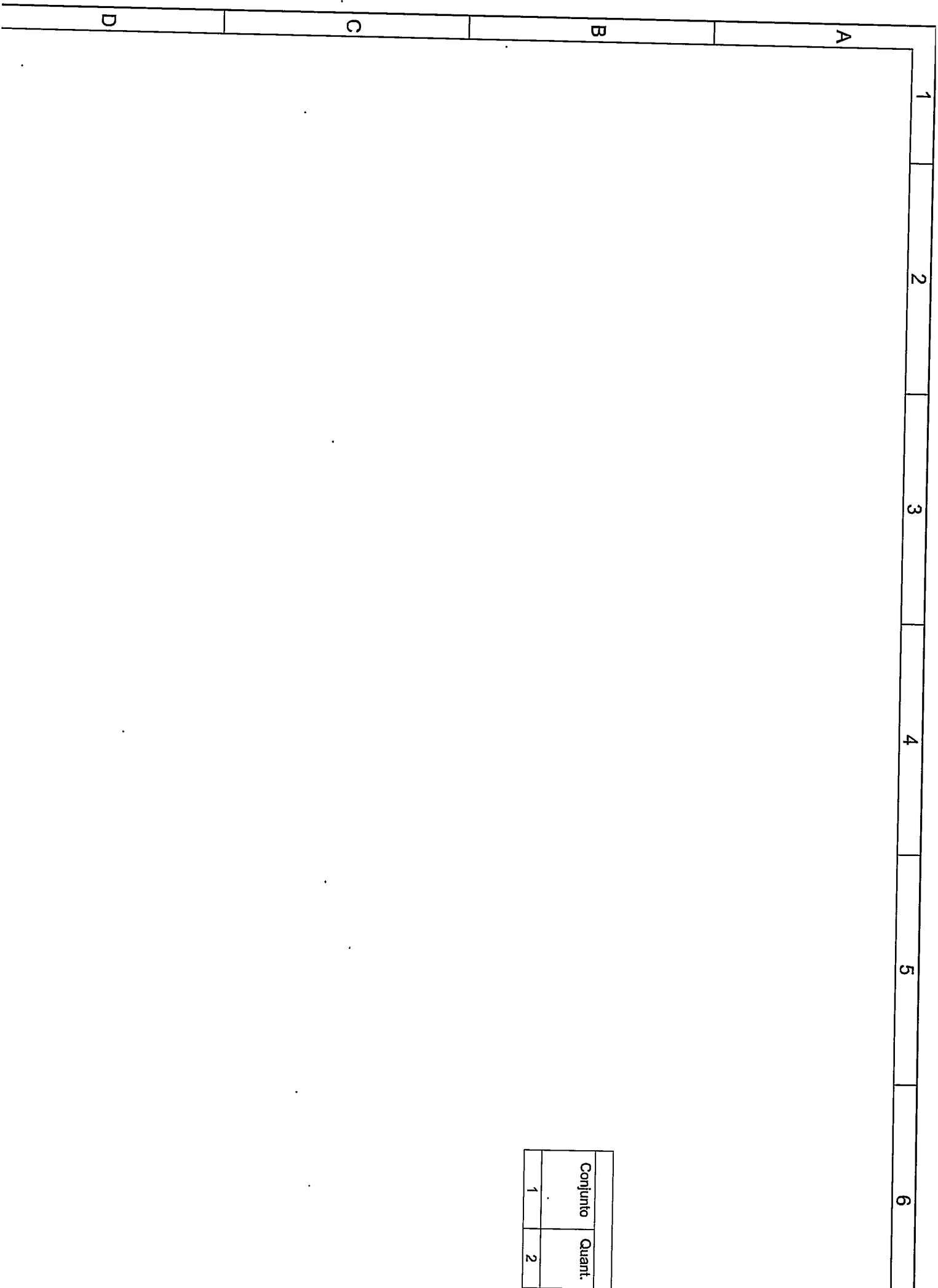
2 N5  $\phi$ 10.0 C=1200

2 N10  $\phi$ 10.0 C=...



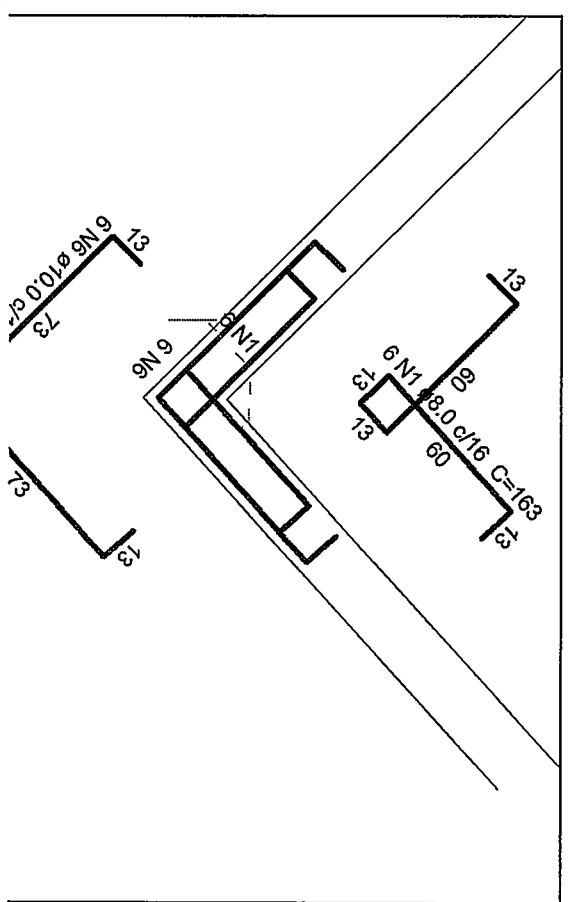
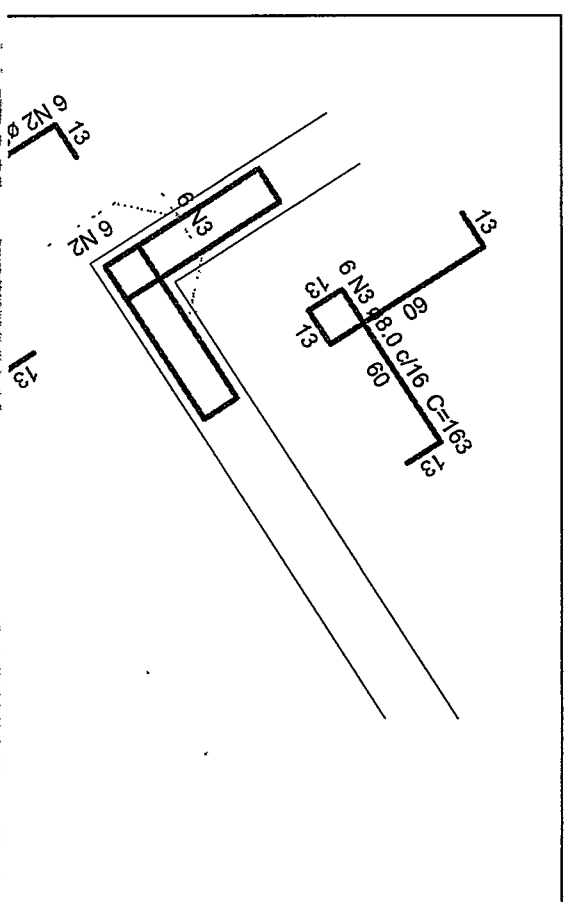
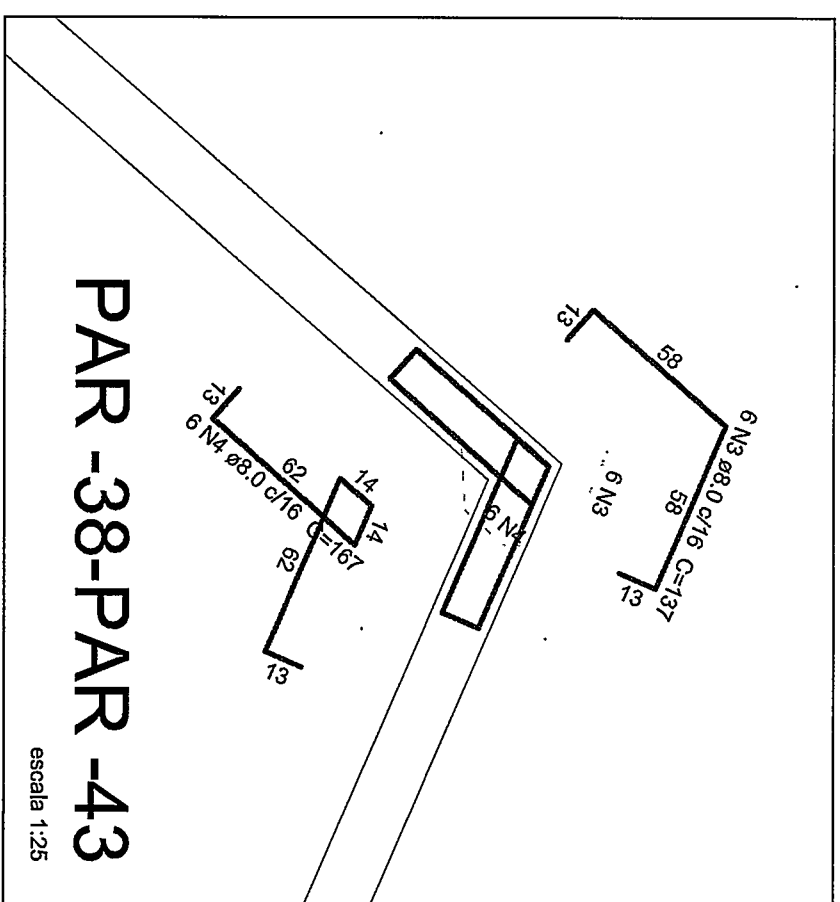
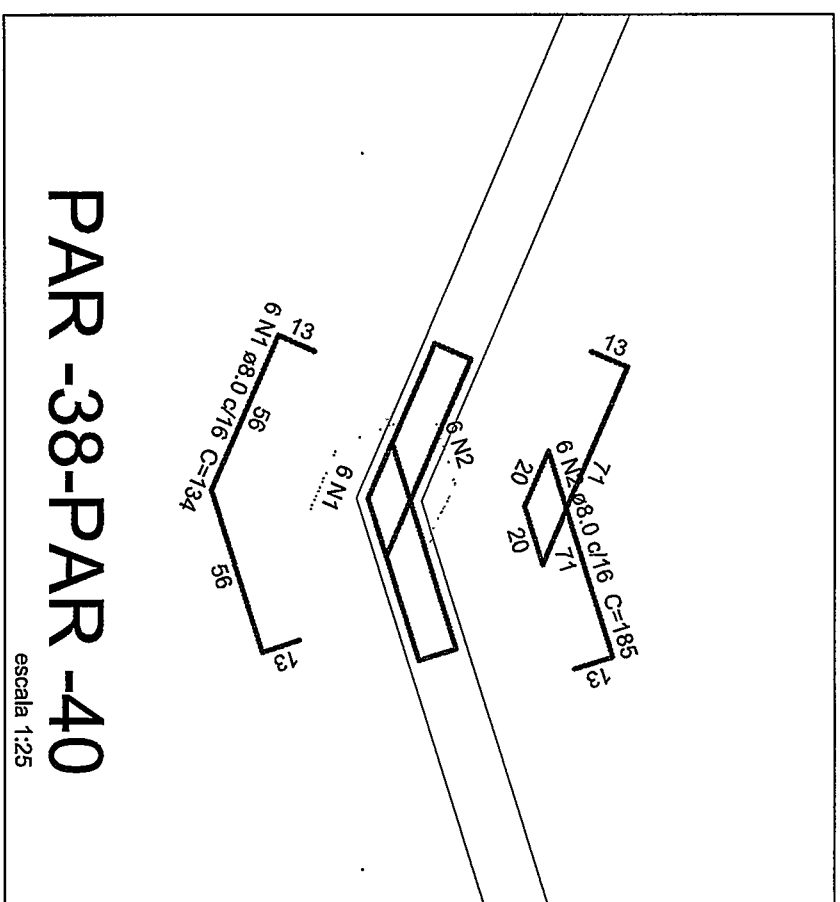
00





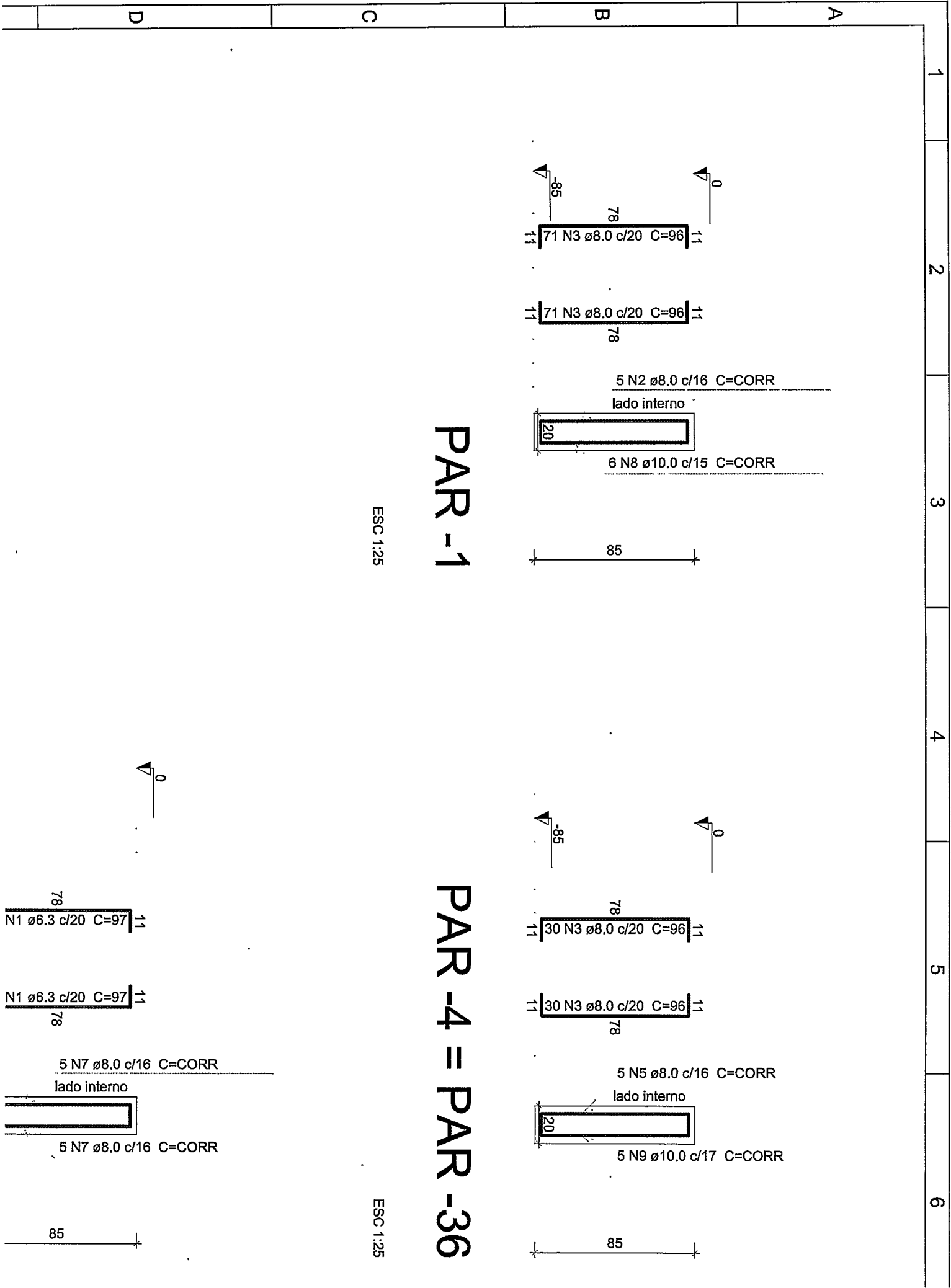
Conjunto	Quant.
1	2

1 2 3 4 5 6



A B C D



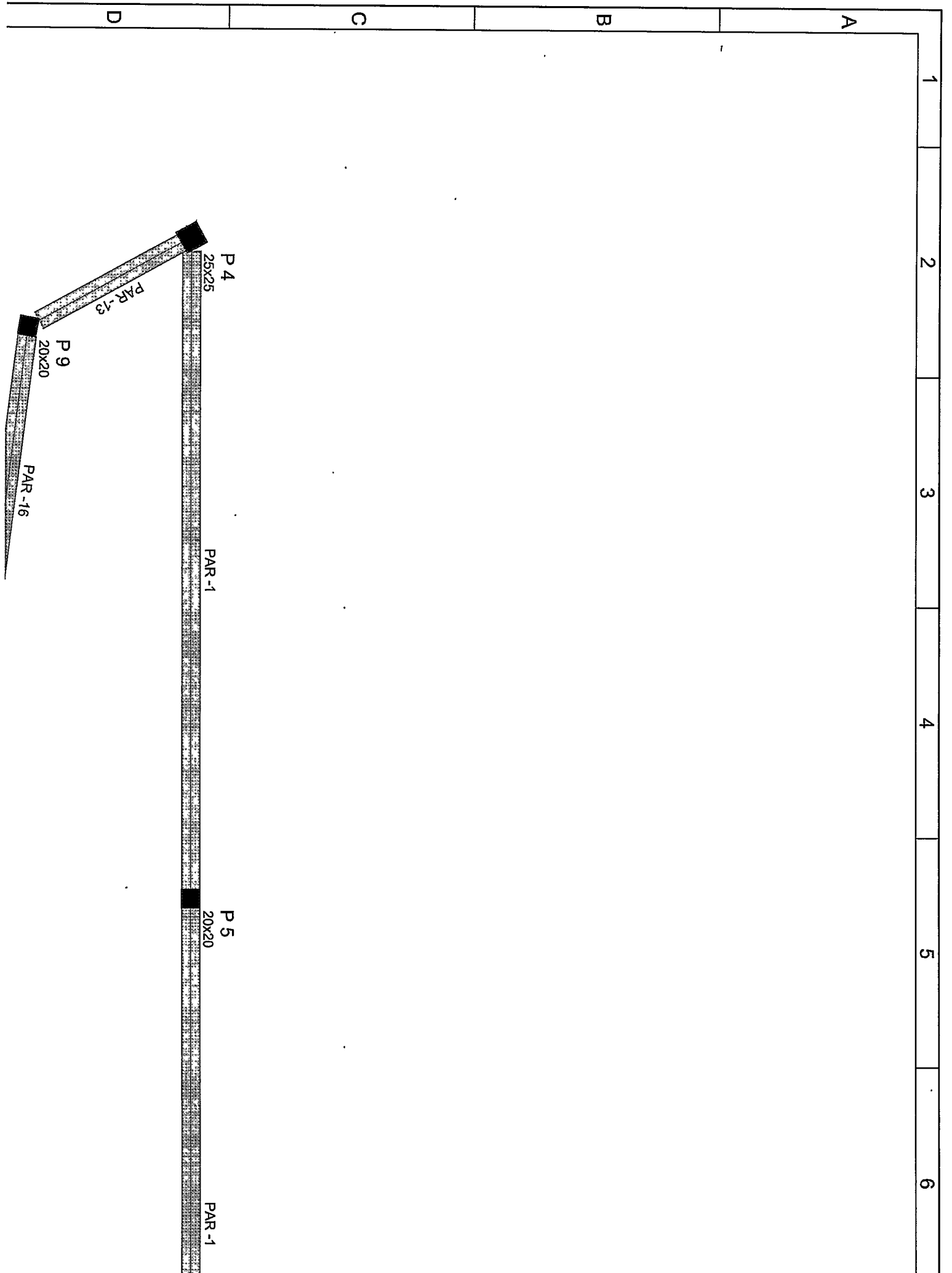


PAR -1

PAR -4 = PAR -36

ESC 1:25

ESC 1:25



1 2 3 4 5 6

A

B

C

D

B

50

430

470

20

70

P11  
20x70

50

VC-301 20x20

800

280

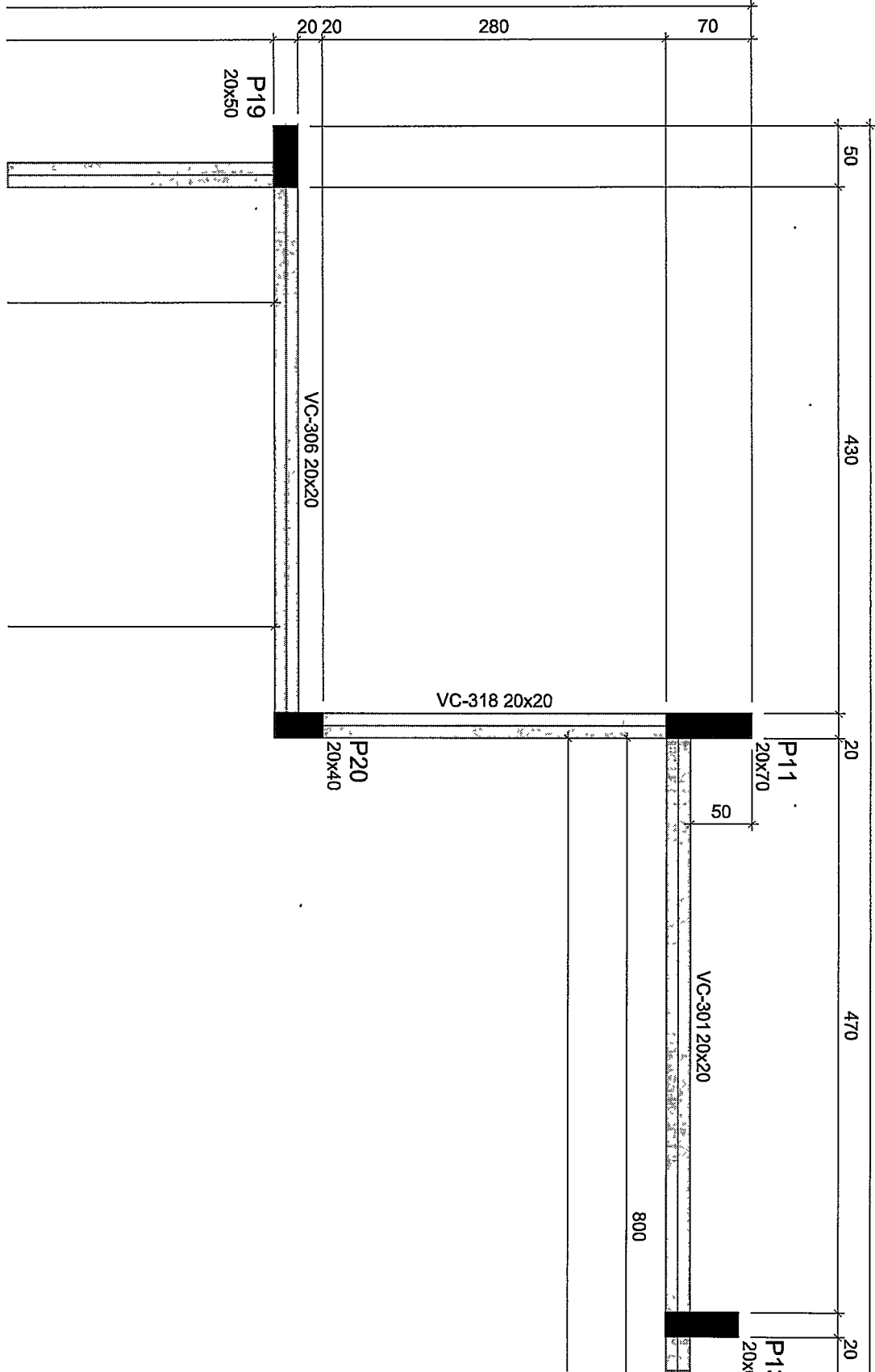
VC-318 20x20

20 20

VC-306 20x20

P20  
20x40

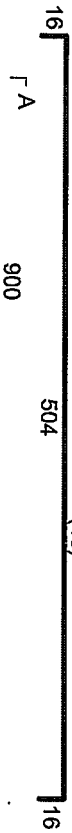
P19  
20x50



### VC-301

ESC 1:50

2 N3  $\varnothing$ 8.0 C=532 (1c)



#### SEÇÃO A-A ESC 1:25



20 x 20  
473  
59 N1  $\varnothing$ 8



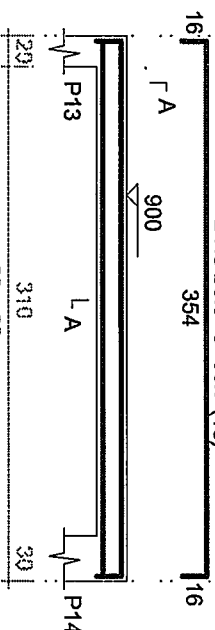
59 N1  $\varnothing$ 6.3 C=68

2 N2  $\varnothing$ 8.0 C=504 (1c)

### VC-302

ESC 1:50

2 N5  $\varnothing$ 8.0 C=382 (1c)



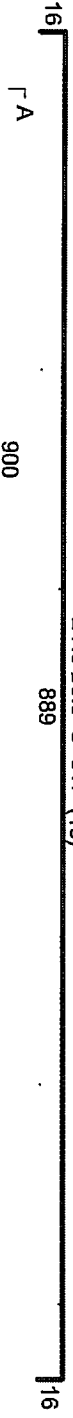
20 x 20  
310  
39 N1  $\varnothing$ 8

2 N4  $\varnothing$ 8.0 C=354 (1c)

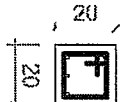
### VC-304

ESC 1:50

2 N6  $\varnothing$ 8.0 C=917 (1c)



#### SEÇÃO A-A ESC 1:25



20 x 20  
635  
835  
105 N1  $\varnothing$ 8



105 N1  $\varnothing$ 6.3 C=68

3 N36  $\varnothing$ 10.0 C=889 (1c)

### VC-308

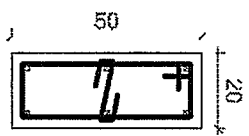
### VC-309

1 2 3 4 5 6

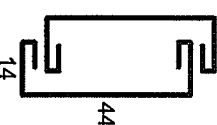
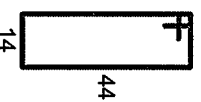
P1=P4

NÍVEL 2 - L3

SEÇÃO  
ESC 1:20



- 7 N1  $\phi$ 6.3 C=128 2x2 N2  $\phi$ 6.3 C=85
- 7 N3  $\phi$ 6.3 C=31
- 2 N3  $\phi$ 6.3 C=31



6 N18  $\phi$ 10.0 C=97

80.  
7 N1 c/12

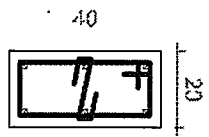
20  
2x2 N2 c/12  
ESC 1:15



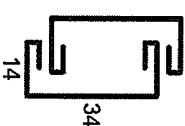
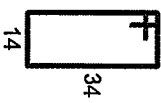
P2=P3

NÍVEL 2 - L3

SEÇÃO  
ESC 1:20



- 7 N4  $\phi$ 6.3 C=108 2x2 N5  $\phi$ 6.3 C=75 100
- 7 N3  $\phi$ 6.3 C=31
- 2 N3  $\phi$ 6.3 C=31



6 N18  $\phi$ 10.0 C=97

80  
7 N4 c/12

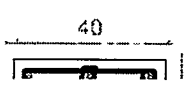
20  
2x2 N5 c/12  
ESC 1:20



P7

NÍVE

SE



P13

P14=P15

12

800

33

D

C

B

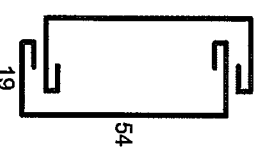
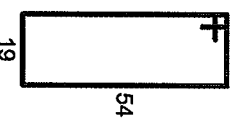
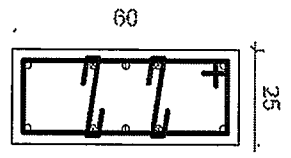
A

1 2 3 4 5 6

P29

NÍVEL 2 - L3

SEÇÃO  
ESC 1:20



25 N1 ø6.3 C=158  
2x25 N3 ø6.3 C=36  
2x4 N3 ø6.3 C=36

800

397

4 N18 ø12.5 C=397

42

2 N19 ø12.5 C=83

400

4 N20 ø12.5 C=442

350

25 N1 c/14

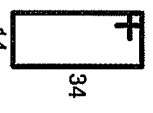
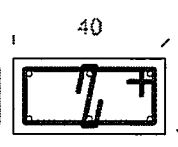
50

2x4 N2 c/14  
ESC 1:25

P30

NÍVEL 2 - L3

SEÇÃO  
ESC 1:20



30 N4 ø6.3 C=108  
30 N6 ø6.3 C=31  
5 N6 ø6.3 C=31

2x5 N5 ø6.3 C=75

800

400

6 N16 ø10.0 C=433

350

30 N4 c/12

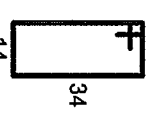
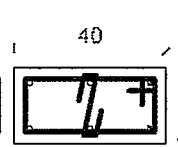
50

2x5 N5 c/12  
ESC 1:25

P31

NÍVEL 2 - L3

SEÇÃO  
ESC 1:20



30 N4 ø6.3 C=108  
30 N6 ø6.3 C=31  
5 N6 ø6.3 C=31

2x5 N5 ø6.3 C=75

800

400

6 N16 ø10.0 C=433

350

30 N4 c/12

50

2x5 N5 c/12  
ESC 1:25

A B C D

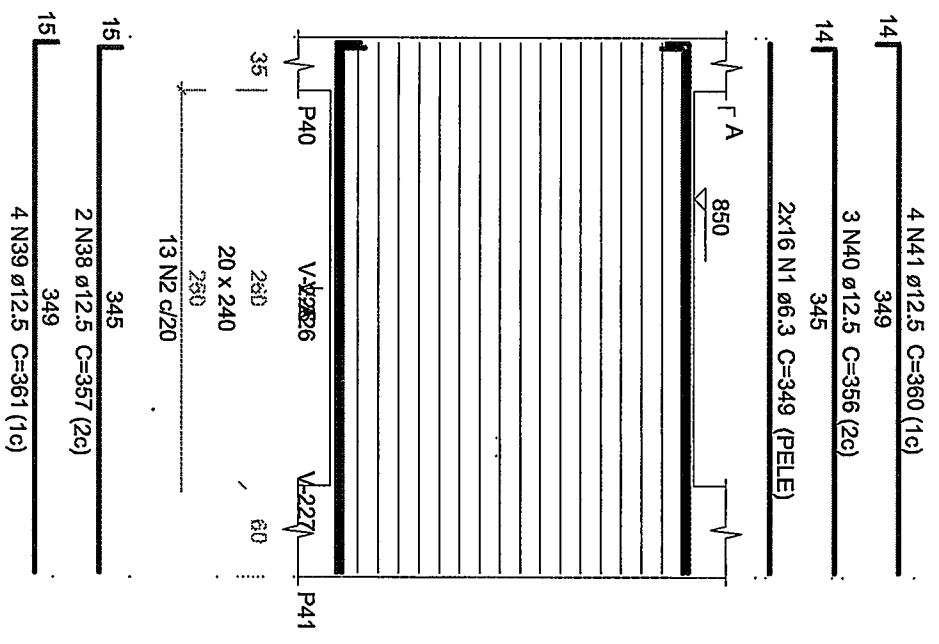
400

400



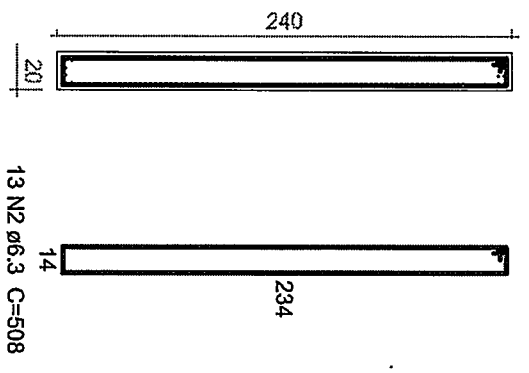
# V-216

ESC 1:50



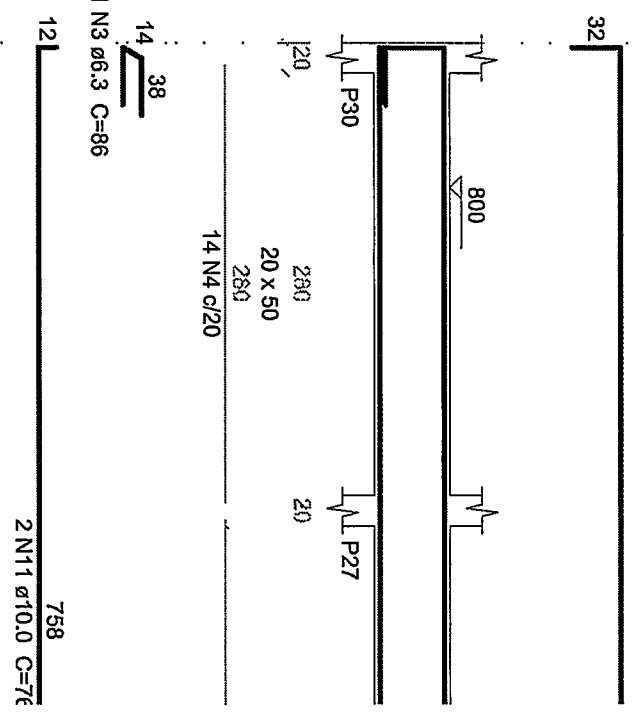
## SEÇÃO A-A

ESC 1:40



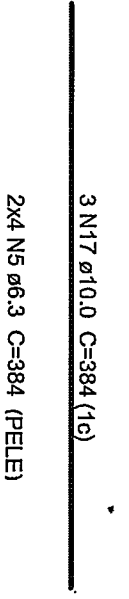
# V-217

ESC 1:50



# V-219

ESC 1:50



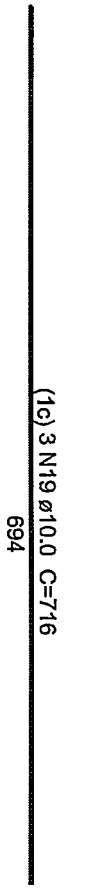
## SEÇÃO A-A

ESC 1:25



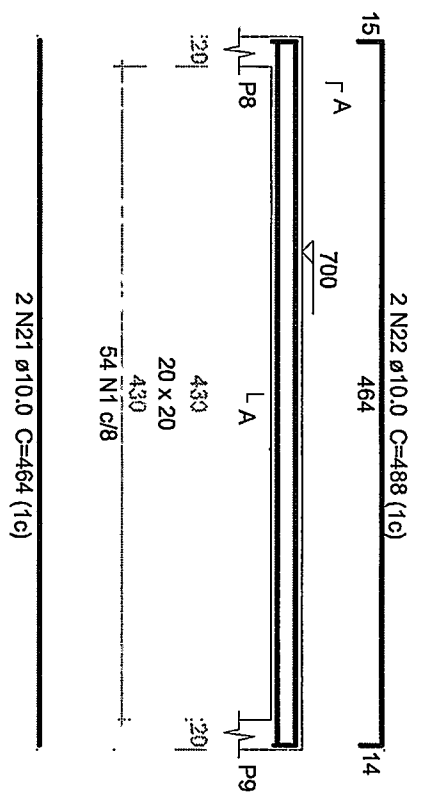
# V-220

ESC 1:50



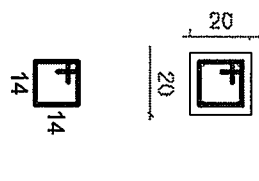
### V-231

ESC 1:50



#### SEÇÃO A-A

ESC 1:25



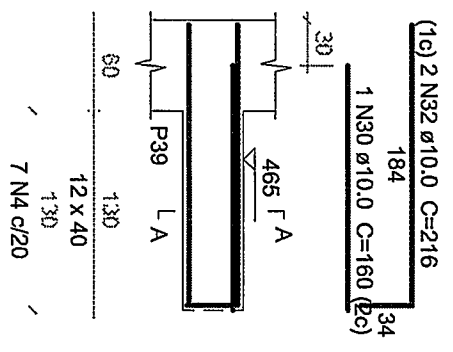
54 N1  $\phi$ 6.3 C=68

2 N21  $\phi$ 10.0 C=464 (1c)

2 N21  $\phi$ 10.0 C=464 (1c)

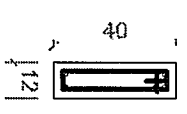
### V-236

ESC 1:50



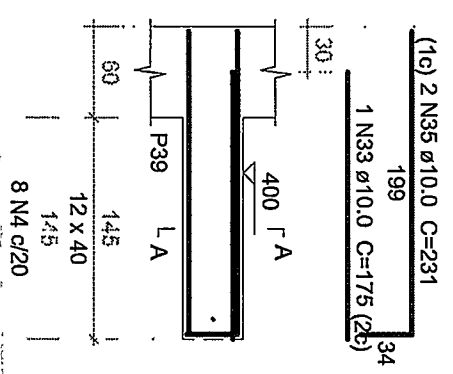
#### SEÇÃO A-A

ESC 1:25



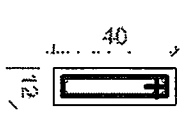
### V-237

ESC 1:50



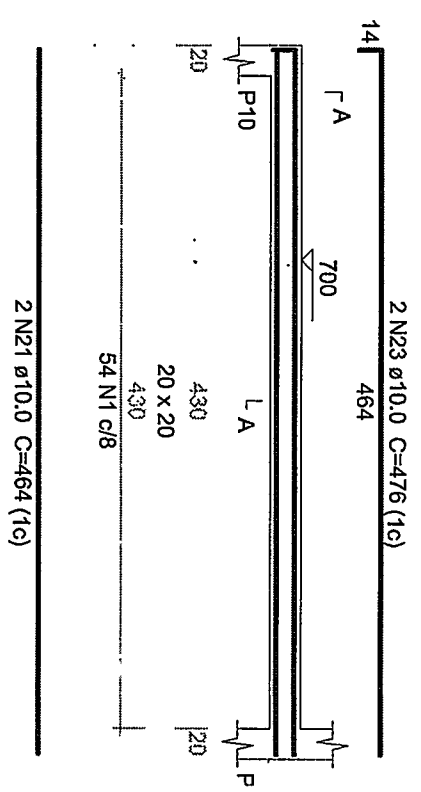
#### SEÇÃO A-A

ESC 1:25



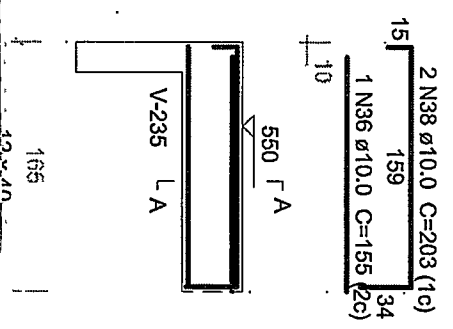
### V-232

ESC 1:50



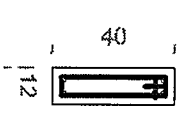
### V-238

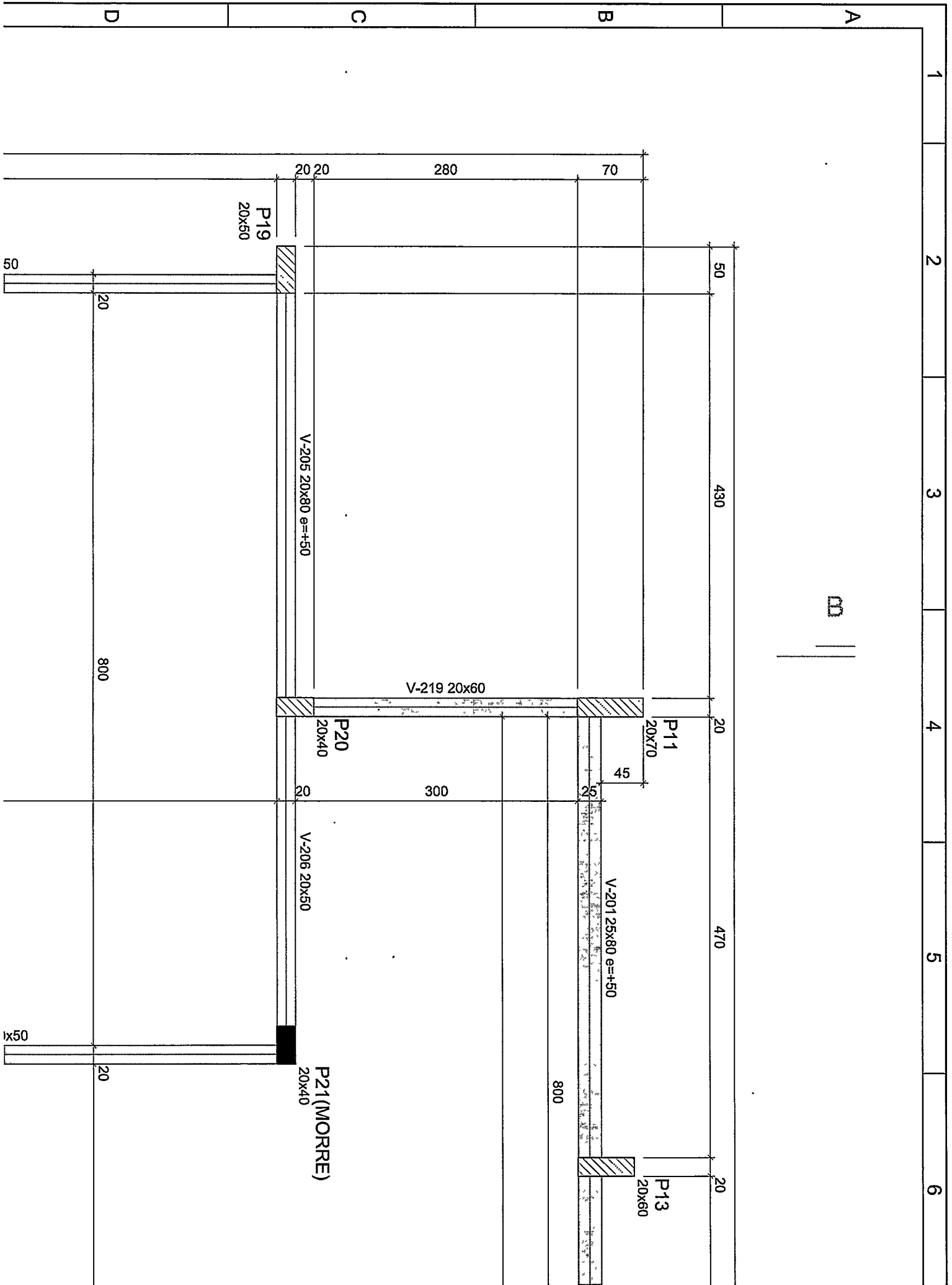
ESC 1:50



#### SEÇÃO A-A

ESC 1:25





4  
 3  
 2

# V-101

ESC 1:50

(1g) 2 N28  $\phi$ 12.5 C=965

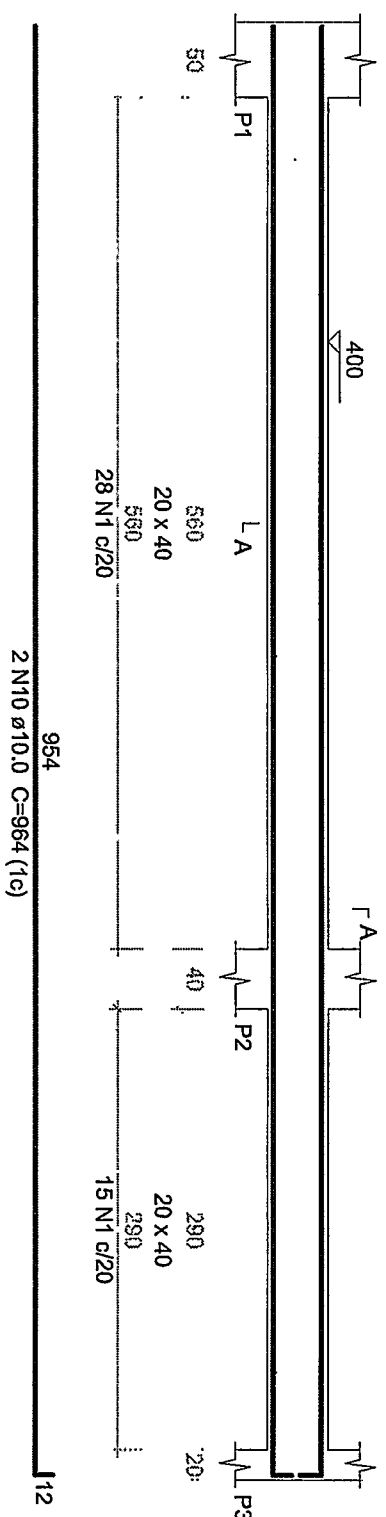
954

1 N27  $\phi$ 12.5 C=405 (1g)

205

SEÇÃO A-A  
ESC 1:25

12

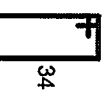


2 N10  $\phi$ 10.0 C=964 (1g)

954

43 N1  $\phi$ 6.3 C=108

14



11

# V-105

ESC 1:50

4 N15  $\phi$ 10.0 C=522 (1g)

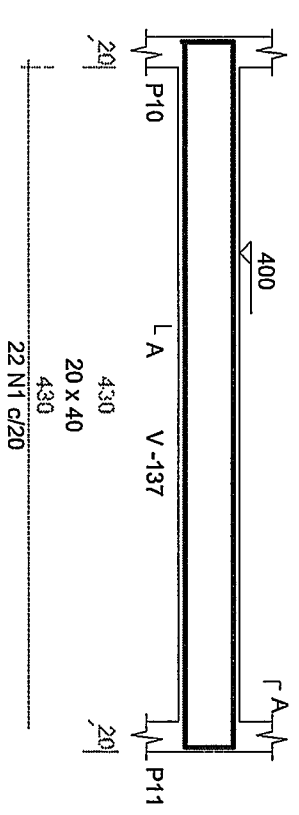
464

SEÇÃO A-A  
ESC 1:25

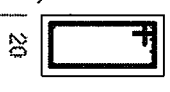
20

25

2 N11



L A V-137



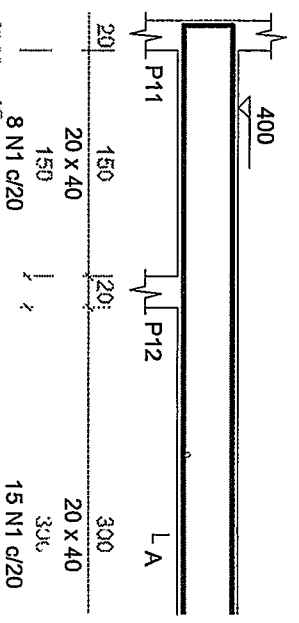
L A

464

15 N1 c/20

# V-106

ESC 1:50



L A

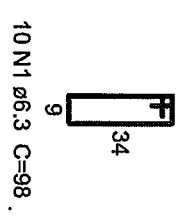
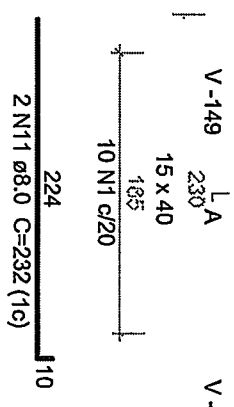
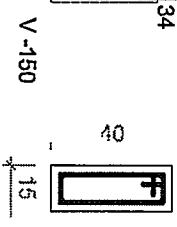
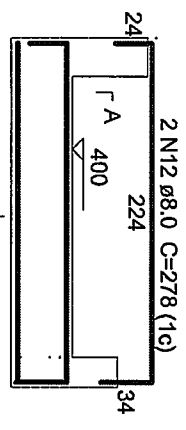
15 N1 c/20

# V-122

ESC 1:50

## SEÇÃO A-A

ESC 1:25

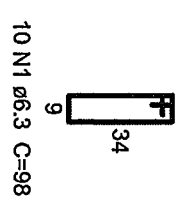
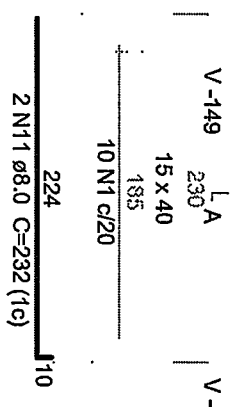
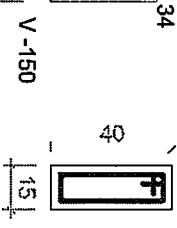
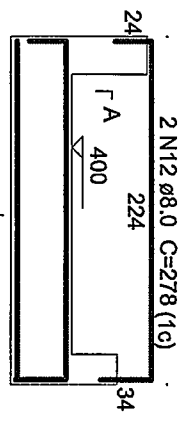


# V-123

ESC 1:50

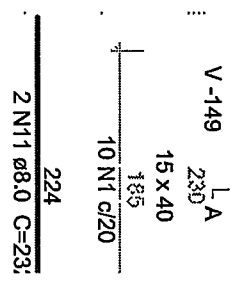
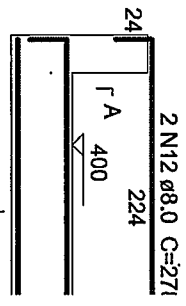
## SEÇÃO A-A

ESC 1:25



# V-124

ESC 1:50



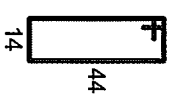
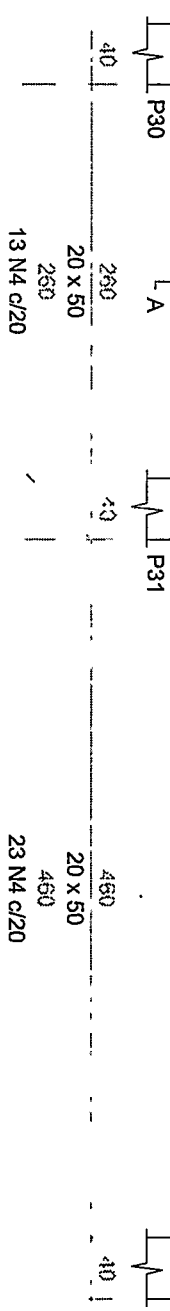
# V-128

ESC 1:50

2 N41 ø12.5 C=834 (1c)

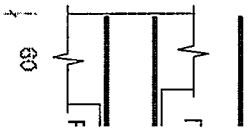
## SEÇÃO A-A

ESC 1:25



# V-125

ESC 1:50



2 N16 ø10.0 C=834 (1c)

A B C D

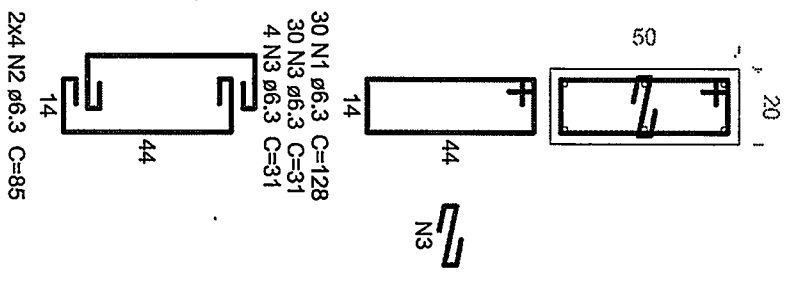


1 2 3 4 5 6

P1=P4

NÍVEL 1 - L2

SEÇÃO  
ESC 1:20



400  
6 N17  $\phi$ 10.0 C=433

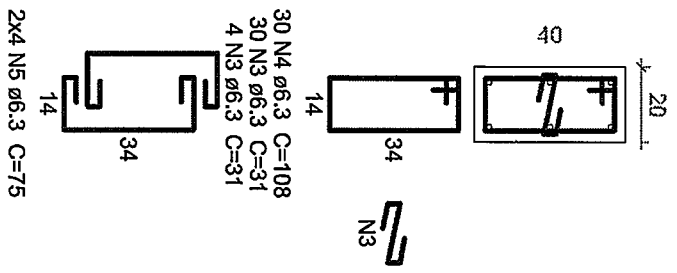
360  
30 N1 c/12

40  
2x4 N2 c/12  
ESC 1:25

P2=P3=P20

NÍVEL 1 - L2

SEÇÃO  
ESC 1:20



400  
6 N17  $\phi$ 10.0 C=433

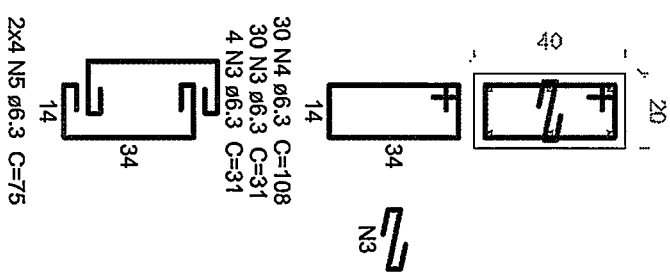
360  
30 N4 c/12

40  
2x4 N5 c/12  
ESC 1:25

P5=P6=P12=P37

NÍVEL 1 - L2

SEÇÃO  
ESC 1:20



397  
6 N18  $\phi$ 10.0 C=397

360  
30 N4 c/12

40  
2x4 N5 c/12  
ESC 1:25

P

N

40

30  
30  
4

2x

40

0

0

0

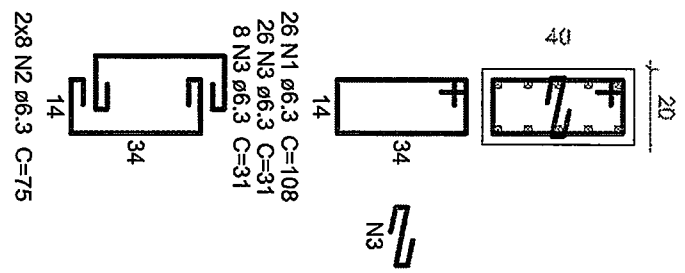
1 2 3 4 5 6

P18

NÍVEL 1 - L2

SEÇÃO  
ESC 1:20

460



457  
10 N22  $\phi$ 12.5 C=457

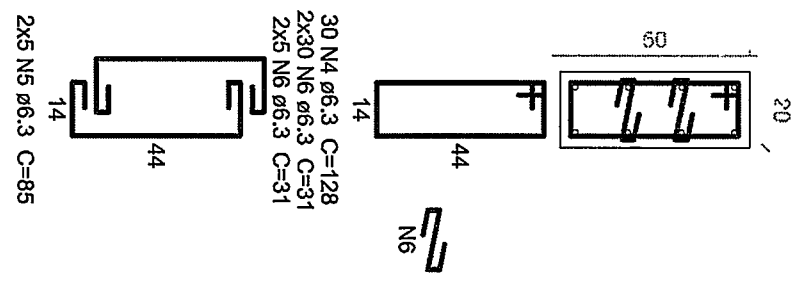
360 100  
26 N1 c/14 2x8 N2 c/14  
ESC 1:25

P19

NÍVEL 1 - L2

SEÇÃO  
ESC 1:20

400



400  
8 N19  $\phi$ 10.0 C=433

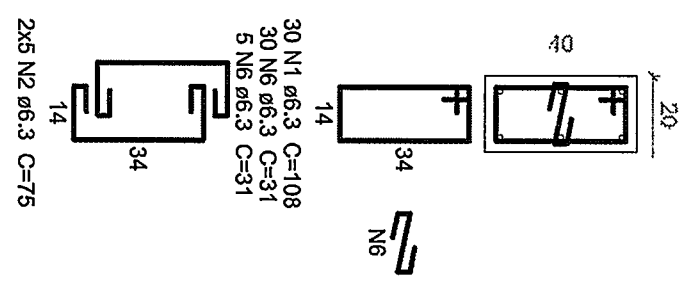
350 50  
30 N4 c/12 2x5 N5 c/12  
ESC 1:25

P21=P30=P31=P32

NÍVEL 1 - L2

SEÇÃO  
ESC 1:20

400



400  
6 N19  $\phi$ 10.0 C=433

350 50  
30 N1 c/12 2x5 N2 c/12  
ESC 1:25

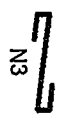
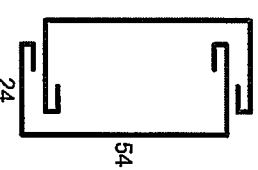
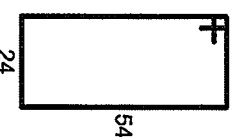
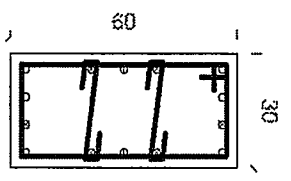
P. N 30 31 5 2x

1 2 3 4 5 6

P35

NIVEL 1 - L2

SEÇÃO  
ESC 1:20



36 N1 ø6.3 C=168 2x4 N2 ø6.3 C=115  
2x36 N3 ø6.3 C=40  
2x4 N3 ø6.3 C=40

400

397  
6 N9 ø12.5 C=397

42  
2 N10 ø12.5 C=83

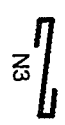
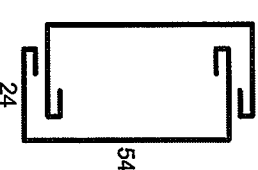
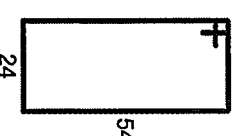
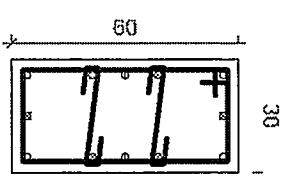
400  
6 N11 ø12.5 C=442

360  
36 N1 c/10  
40  
2x4 N2 c/10  
ESC.1:25

P36

NIVEL 1 - L2

SEÇÃO  
ESC 1:20



26 N1 ø6.3 C=168 2x3 N2 ø6.3 C=115  
2x26 N3 ø6.3 C=40  
2x3 N3 ø6.3 C=40

400

397  
6 N9 ø12.5 C=397

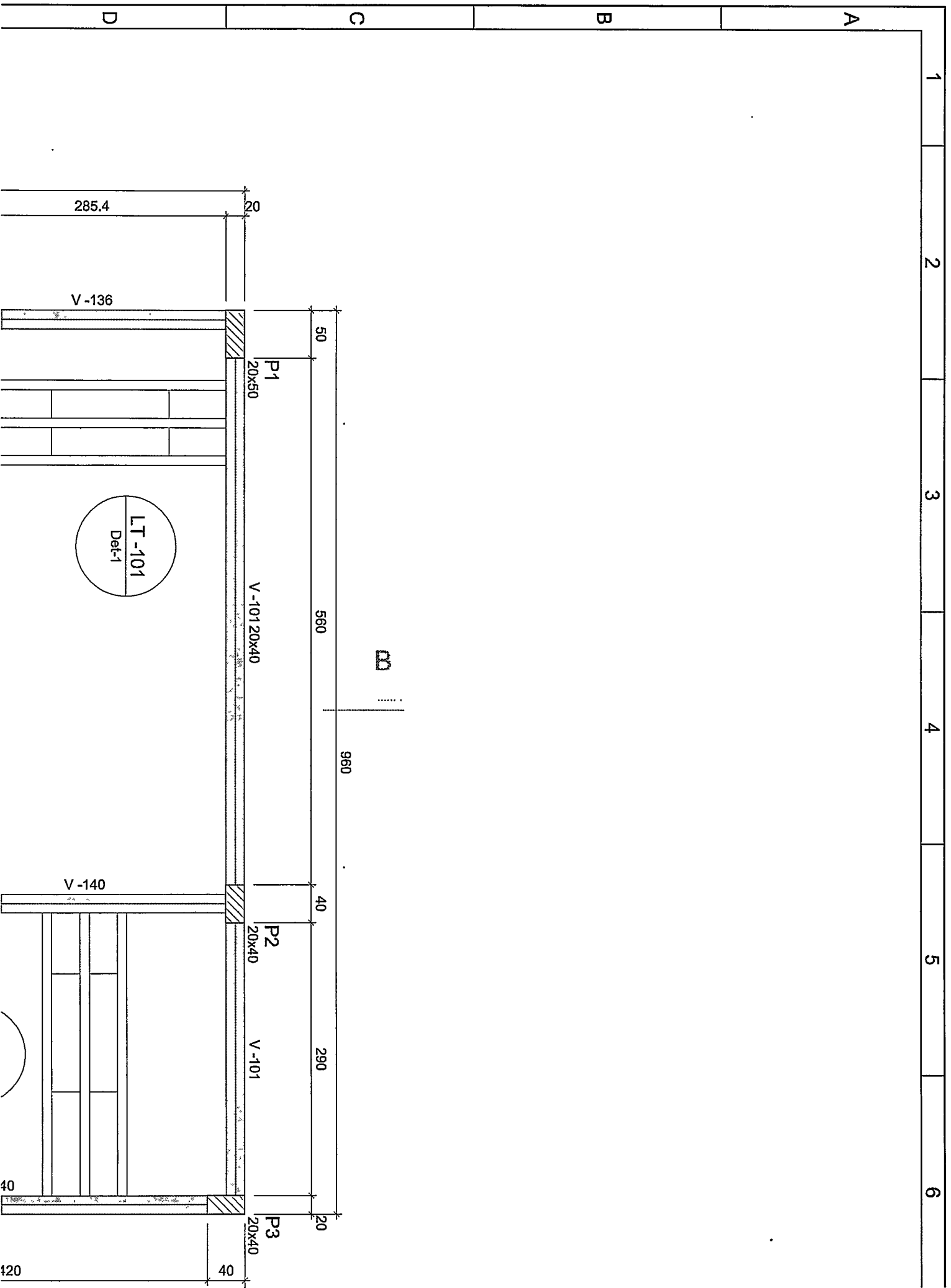
42

1  
2  
3  
4  
5  
6

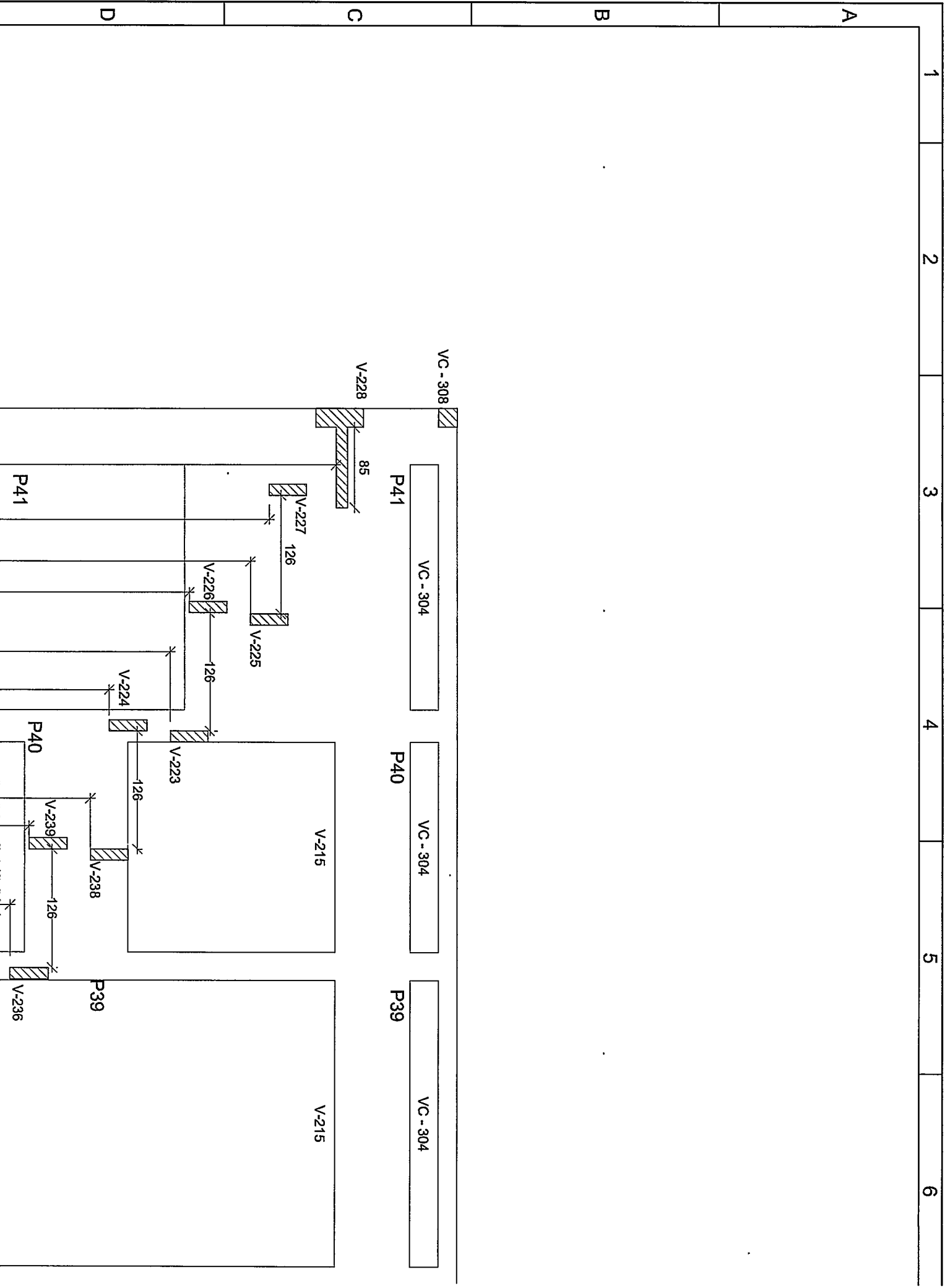
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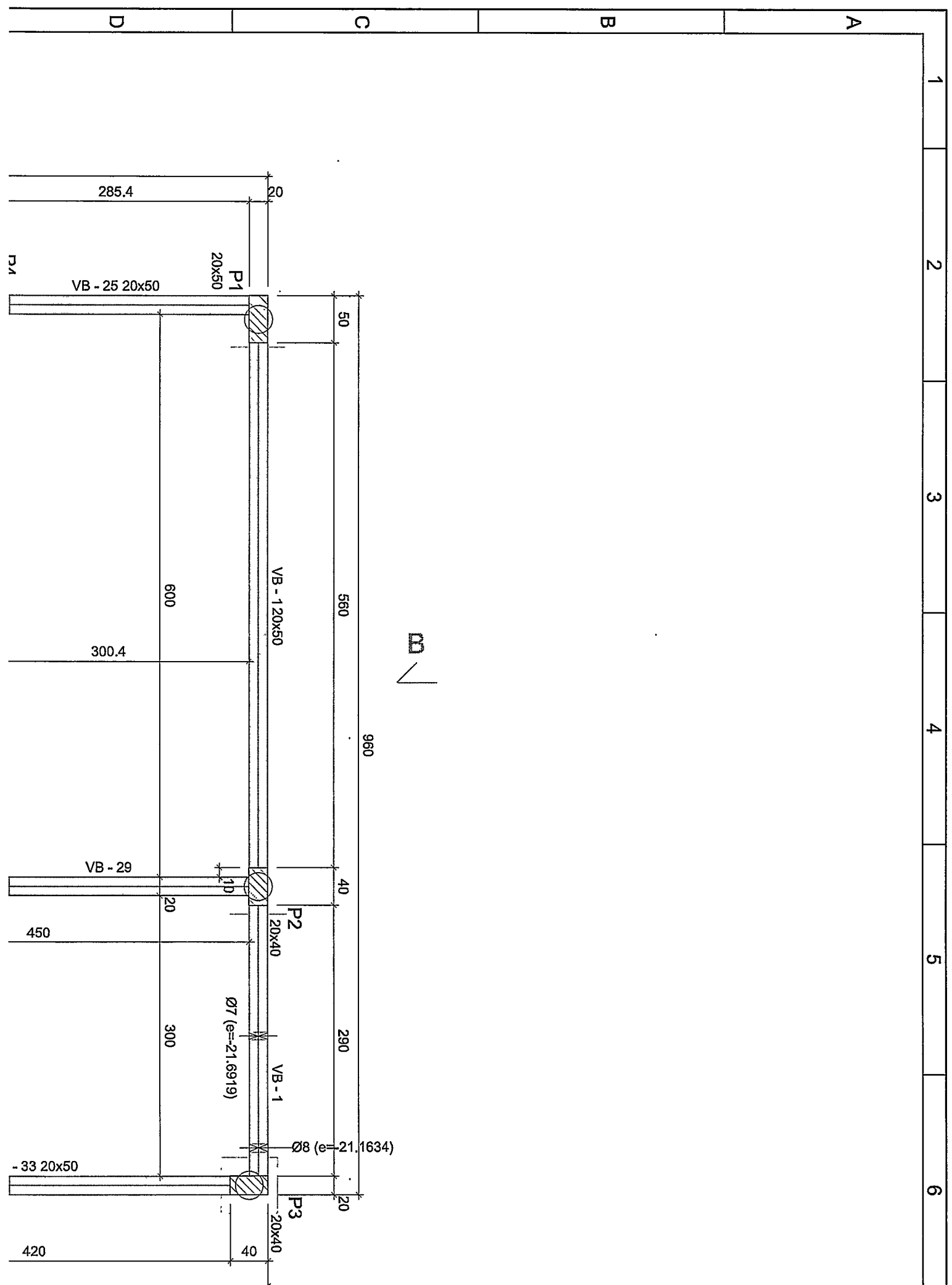
0

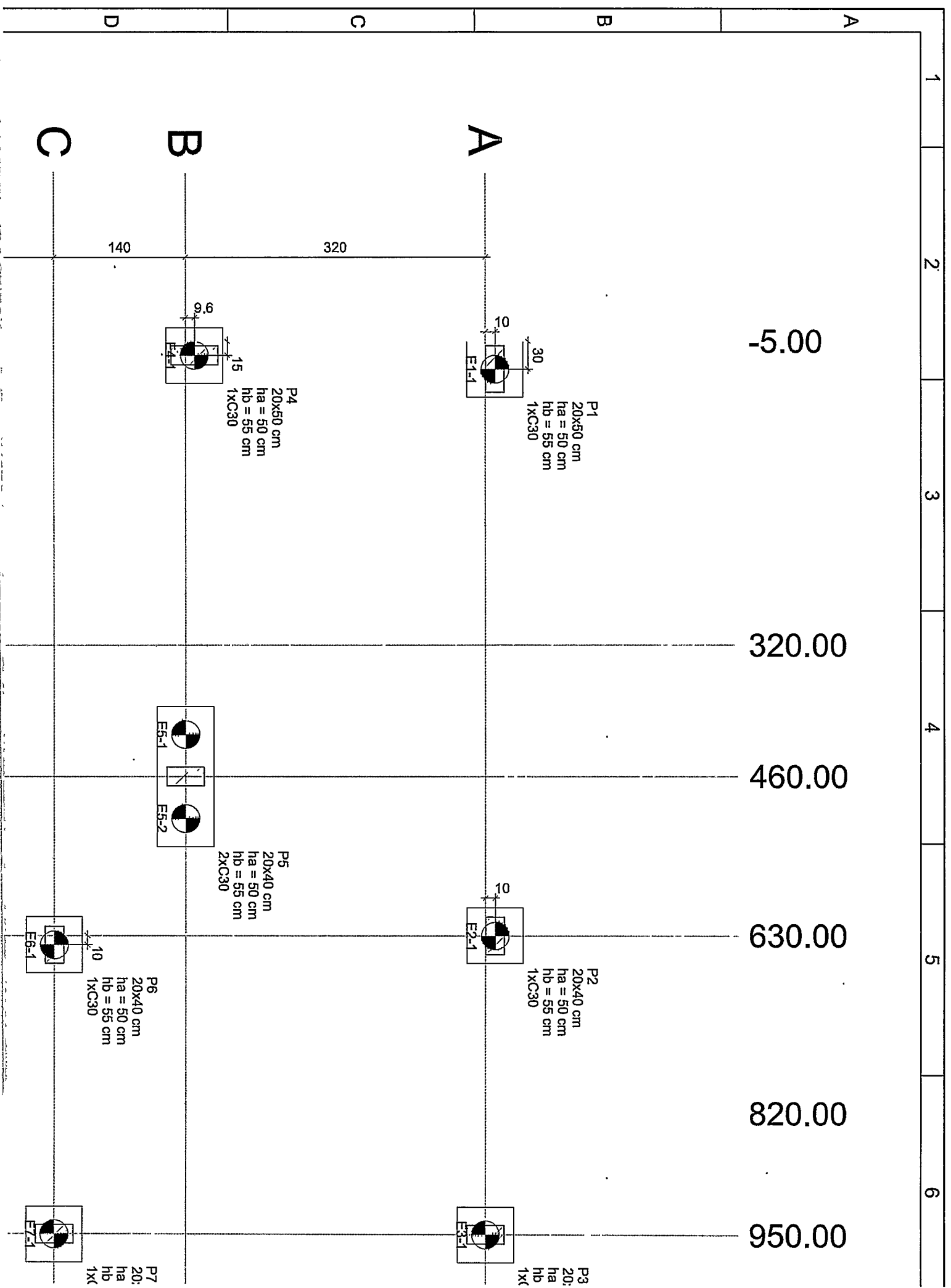




1/20







-5.00

320.00

460.00

630.00

820.00

950.00

P1  
 20x50 cm  
 ha = 50 cm  
 hb = 55 cm  
 1xC30

P4  
 20x50 cm  
 ha = 50 cm  
 hb = 55 cm  
 1xC30

P5  
 20x40 cm  
 ha = 50 cm  
 hb = 55 cm  
 2xC30

P2  
 20x40 cm  
 ha = 50 cm  
 hb = 55 cm  
 1xC30

P6  
 20x40 cm  
 ha = 50 cm  
 hb = 55 cm  
 1xC30

P3  
 20x40 cm  
 ha = 50 cm  
 hb = 55 cm  
 1xC30

P7  
 20x40 cm  
 ha = 50 cm  
 hb = 55 cm  
 1xC30

140

320

9.6

15

10

30

10

10



# VB - 13

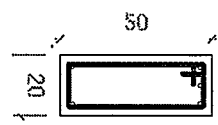
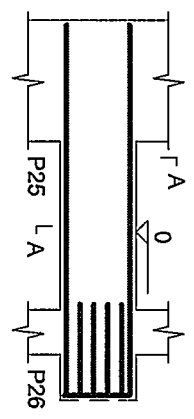
ESC 1:50

(1g) 2 N35  $\phi$ 12.5 C=285

1 N34  $\phi$ 12.5 C=242 (1g)

44

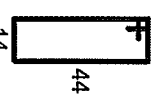
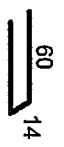
## SEÇÃO A-A ESC 1:25



2 N15  $\phi$ 10.0 C=244 (1g)

4 N1  $\phi$ 6.3 c/9 C=130

8 N2  $\phi$ 6.3 C=128



# VB - 14

ESC 1:50

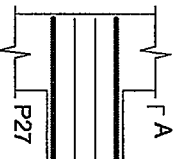
1 N37  $\phi$ 12.5 C=232 (1g)

864

(1g) 2 N38  $\phi$ 12.5 C=896

2x2 N10  $\phi$ 8.0 C=872 (PELE)

864



50 N2 c/16

3 N36  $\phi$ 12.5 C=864 (1g)

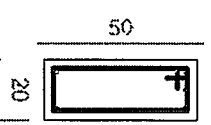
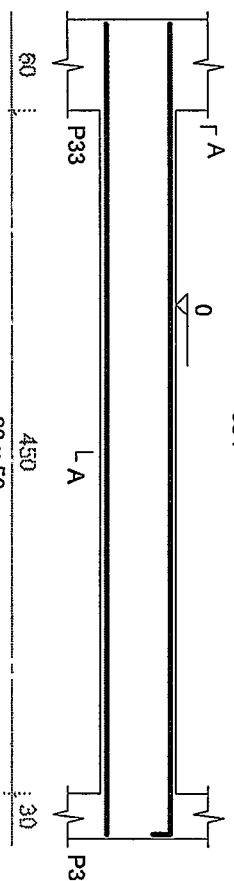
# VB - 16

ESC 1:50

(1g) 3 N19  $\phi$ 10.0 C=544

534

## SEÇÃO A-A ESC 1:25

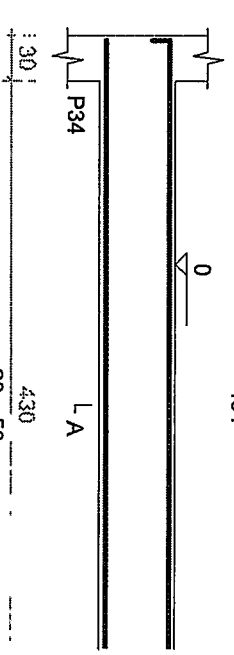


# VB - 17

ESC 1:50

3 N21  $\phi$ 10.0 C=503 (1g)

484



2x N12 n/2n

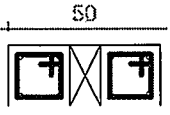
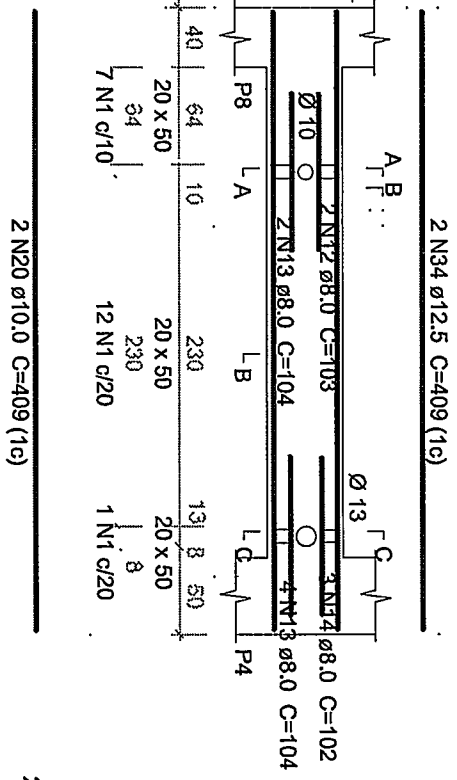
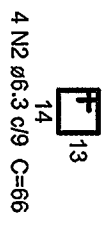
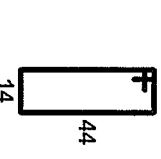
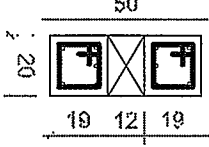
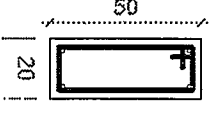
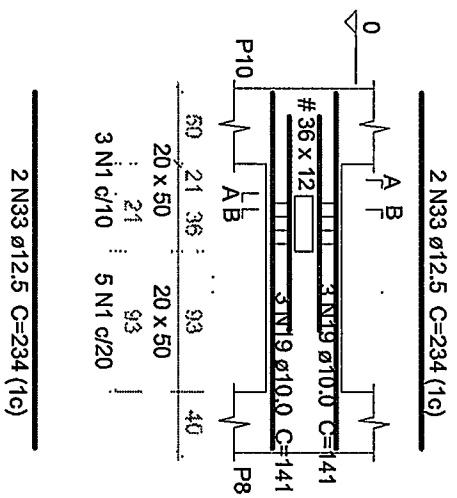
2x N12 n/2n

# VB - 23

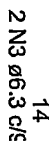
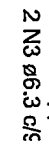
ESC 1:50

SEÇÃO A-A  
ESC 1:25

SEÇÃO B-B  
ESC 1:25



2 N20 ø10.0 C=409 (1g)

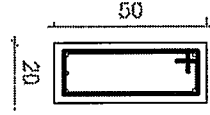
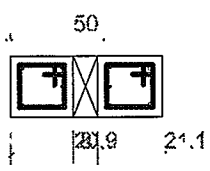
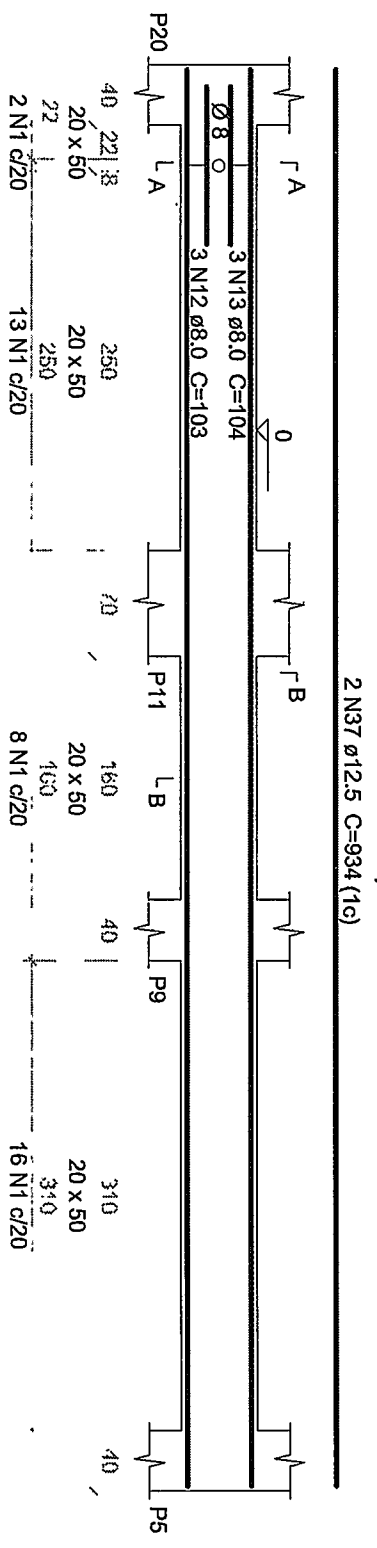


# VB - 28

ESC 1:50

SEÇÃO A-A  
ESC 1:25

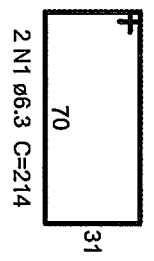
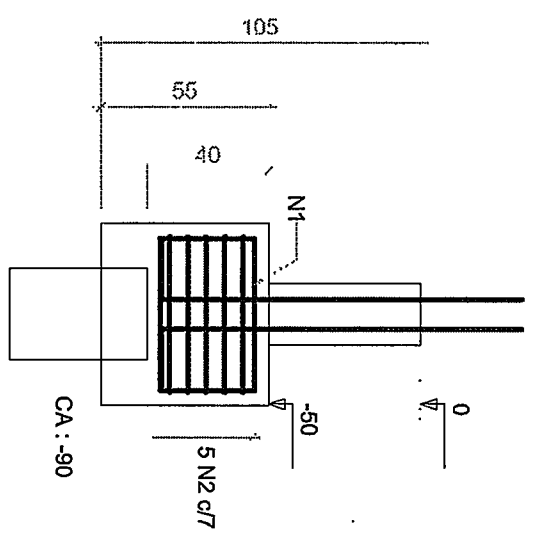
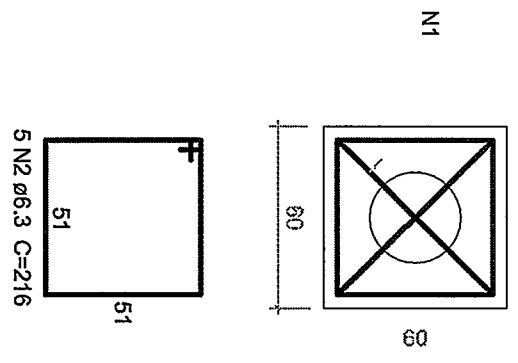
SEÇÃO B-B  
ESC 1:25



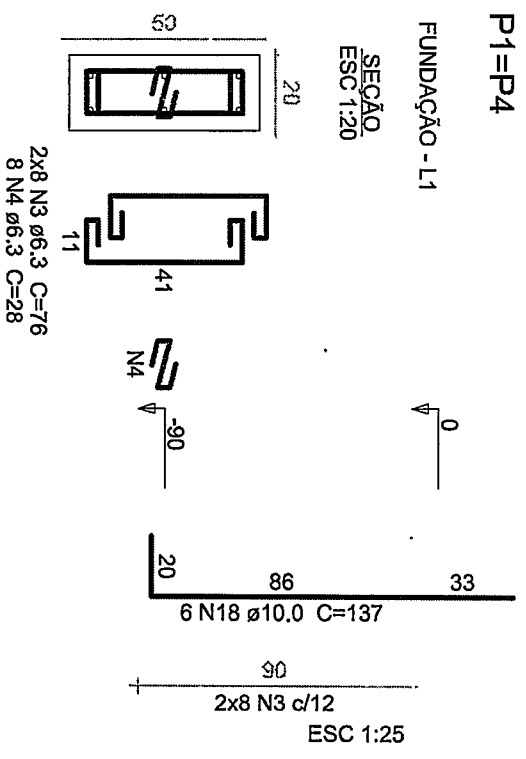
B1=B2=B3=B4=B6=B7=B12=B29=B30=B33

1XC30  
PLANTA  
ESC 1:25

CORTE  
ESC 1:25

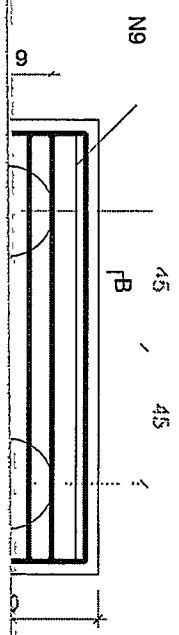
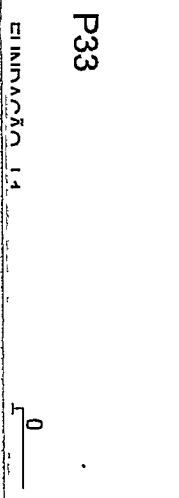


P1=P4  
FUNDAÇÃO - L1  
SEÇÃO  
ESC 1:20



B5  
2XC30  
PLANTA  
ESC 1:25

CORTE A-A  
ESC 1:25

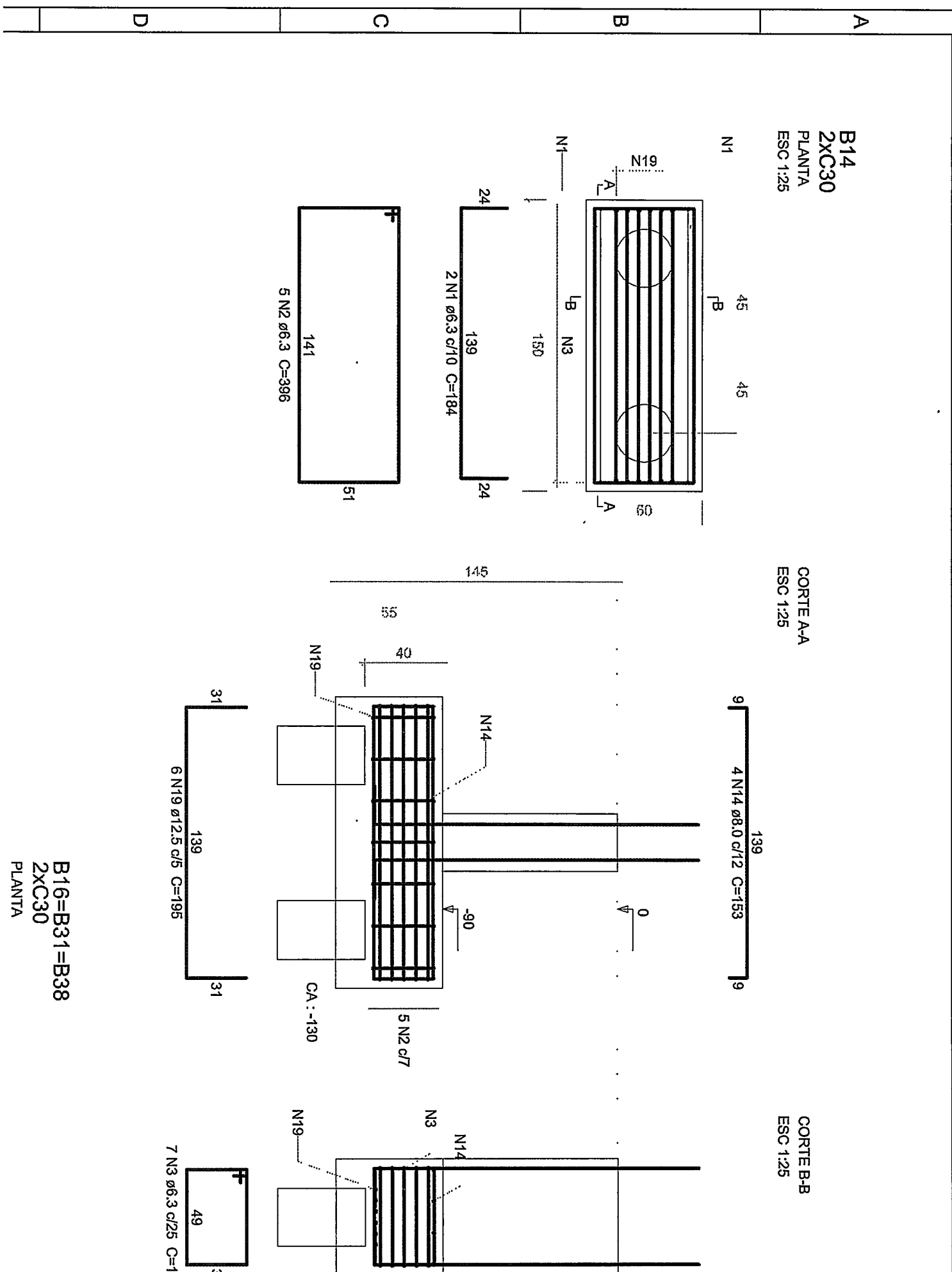


1 2 3 4 5 6

**B14**  
**2XC30**  
 PLANTA  
 ESC 1:25

CORTE A-A  
 ESC 1:25

CORTE B-B  
 ESC 1:25



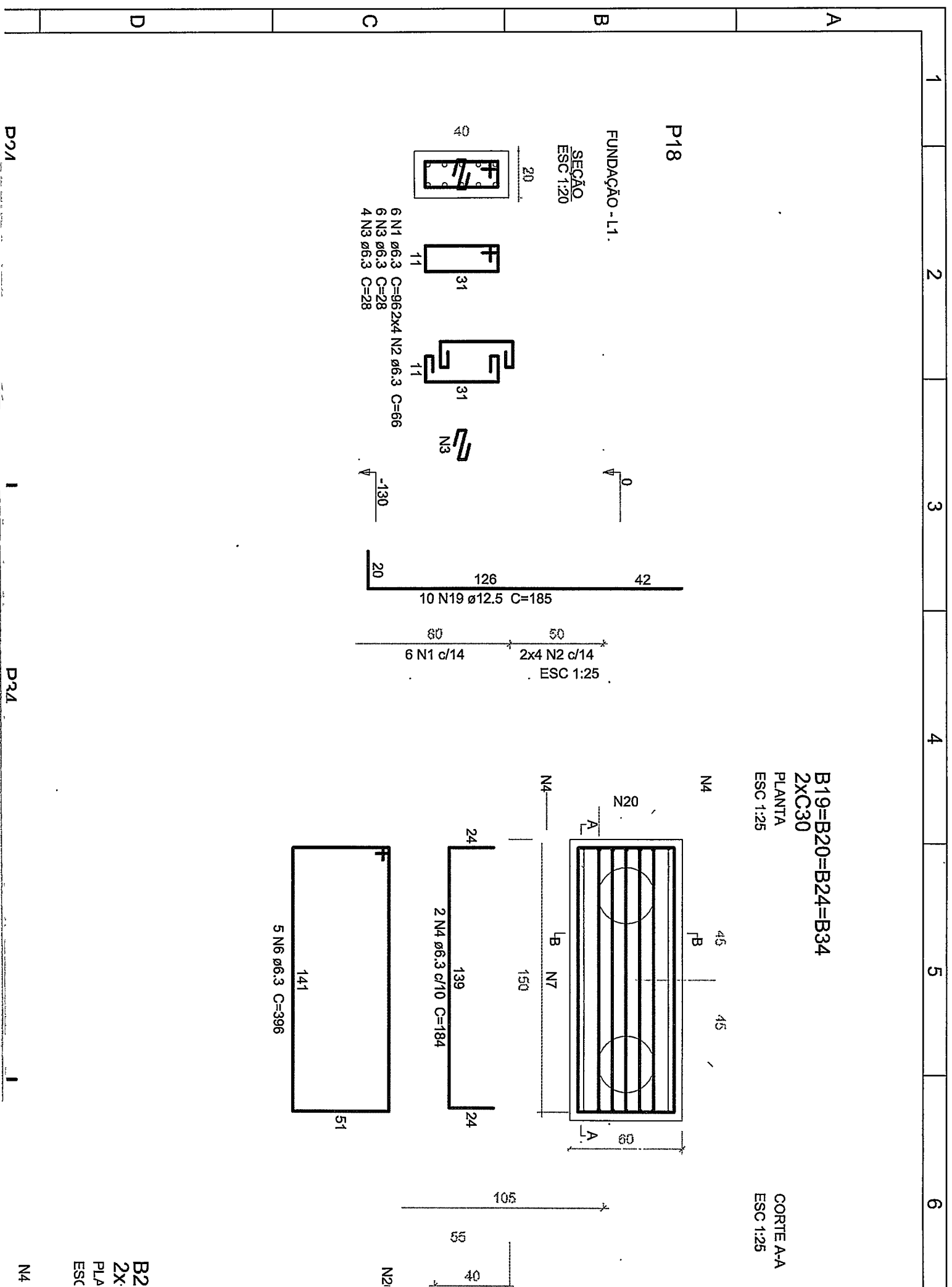
31  
 139  
 6 N19 ø12.5 c/5 C=195  
 31

31  
 49  
 7 N3 ø6.3 c/25 C=172  
 31

**B16=B31=B38**  
**2XC30**  
 PLANTA

COR

共 4 页



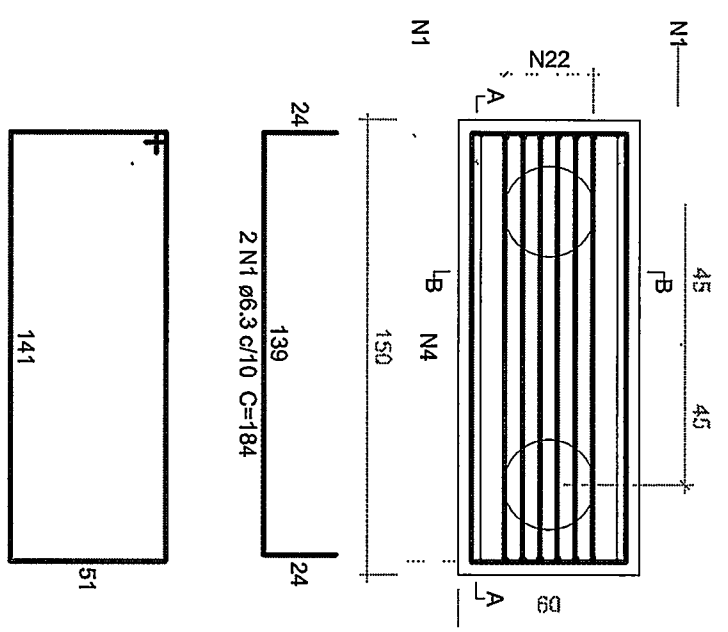
D21

D31

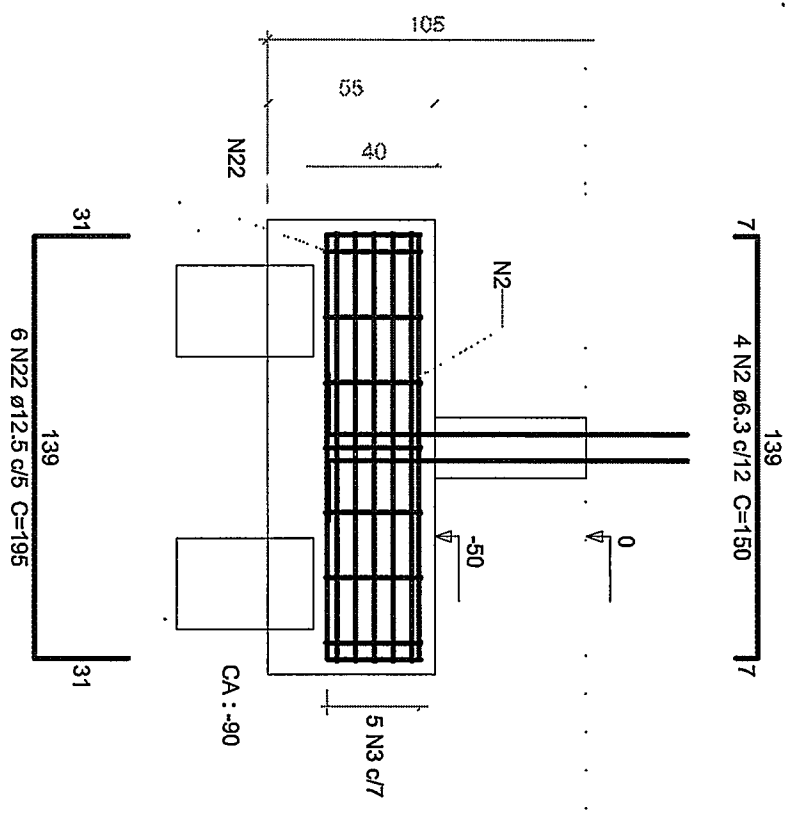
B2  
2X  
PLA  
ESC  
N4

1 2 3 4 5 6

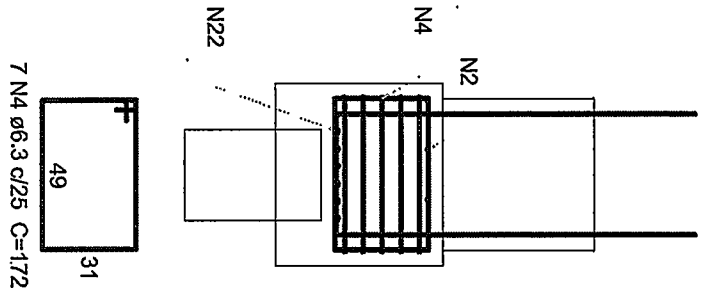
B23  
2XC30  
PLANTA  
ESC 1:25



CORTE A-A  
ESC 1:25



CORTE B-B  
ESC 1:25



0.00

A B C D

B35  
2XC30  
PLANTA

CORTE A-A

1

2

3

4

5

6

## ORIENTAÇÕES :

A

### NOTAS - OS COBRIMENTOS.

- O cobrimento especificado para a armadura no projeto deve ser mantido por dispositivos adequados ou espaçadores e sempre se refere à armadura mais exposta. É permitido o uso de espaçadores de concreto ou argamassa, desde que apresente relação água/cimento menor ou igual a 0,5, e espaçadores plásticos, ou metálicos com as partes em contato com a fôrma revestidas com material plástico ou outro material similar.
- Não devem ser utilizados calços de aço cujo cobrimento, depois de lançado o concreto, tenha espessura menor do que o especificado no projeto.

B

### NOTAS - CONCRETAGEM.

- Salvo condições específicas definidas em projeto, ou influência de condições climáticas ou de composição do concreto, recomenda-se que o intervalo de tempo transcorrido entre o instante em que a água de amassamento entra em contato com o cimento e o final da concretagem não ultrapasse a 2 h 30 min. Quando a temperatura ambiente for elevada, ou sob condições que contribuam para acelerar a pega do concreto, esse intervalo de tempo deve ser reduzido, a menos que sejam adotadas medidas especiais, como o uso de aditivos retardadores, que aumentem o tempo de pega sem prejudicar a qualidade do concreto.

C

### NOTAS - CURA.

- A proteção contra secagem prematura do concreto deverá ser realizada por pelo menos 07 dias após o lançamento do concreto. Poderá ser realizada mantendo-se umedecida a superfície ou protendo-a com película impermeável. Preferencialmente mantendo uma lâmina de 2mm sobre o concreto

D

### LANÇAMENTO E ADENSAMENTO DO CONCRETO.

- Antes da aplicação do concreto, deve ser feita rigorosa limpeza das formas.
- Em nenhuma hipótese deve ser realizado o lançamento do concreto após o início da pega.


## NOTAS GERAIS PA


- 1) O assentamento dos componentes em fiadas de meia vez.
- 2) A ligação com os pilares de concreto de aço diâmetro e  $\frac{1}{4}$ " (6,3mm), distanciadas 50cm no sentido longitudinal.
- 3) A face das estruturas de concreto (cimento:areia).
- 4) Nas vigas baldramas, as alvenarias devem ser impermeabilizadas.
- 5) A alvenaria deve ser interrompida após 7 dias de execução.
- 6) A ordem de execução das alvenarias ou seja, do último pavimento no fechamento das paredes.
- 7) O encunhamento da última fiada deve ser obrigatoriamente com o uso de argamassa com expansor ou tijoleta.
- 8) As vergas e contra-vergas devem ser utilizadas em todos os casos.
- 9) As juntas de assentamento devem ser feitas no mínimo, 4 metros de distância.
- 10) O abatimento do concreto deve ser feito de acordo com o projeto.








### LEGENDA

 AR. CONDICIONADO H=2,30.


 LUMINARIA DE EMERGENCIA.

 BPA. PONTO DA BOMBA.

 LUMINARIA DE PISO: 24W.

 GAIXA DE PASSAGEM 400X400X600CM FUNDO COM DRENAGEM.

 PONTO PARA COMUNICACAO (DADOS E VOZ).

 INTERRUPTOR SIMPLES.


 INTERRUPTOR PARALELO.

 LUMINARIA NO TETO 24W.

 LUMINARIA NA PAREDE 24W.

 POSTE DE ILUMINACAO 200W.

 QUADRO ALIMENTACAO CPFL.

 QUADRO GERAL E DISTRIBUICAO DE CIRCUITOS.

DESGASTO POR CIRCUITO
ILUMINACAO
TOMADAS 12V
TOMADAS 12V/
ILUMINACAO
ILUMINACAO
ILUMINACAO
ILUMINACAO EMERGENCIA
RESERVA
RESERVA

