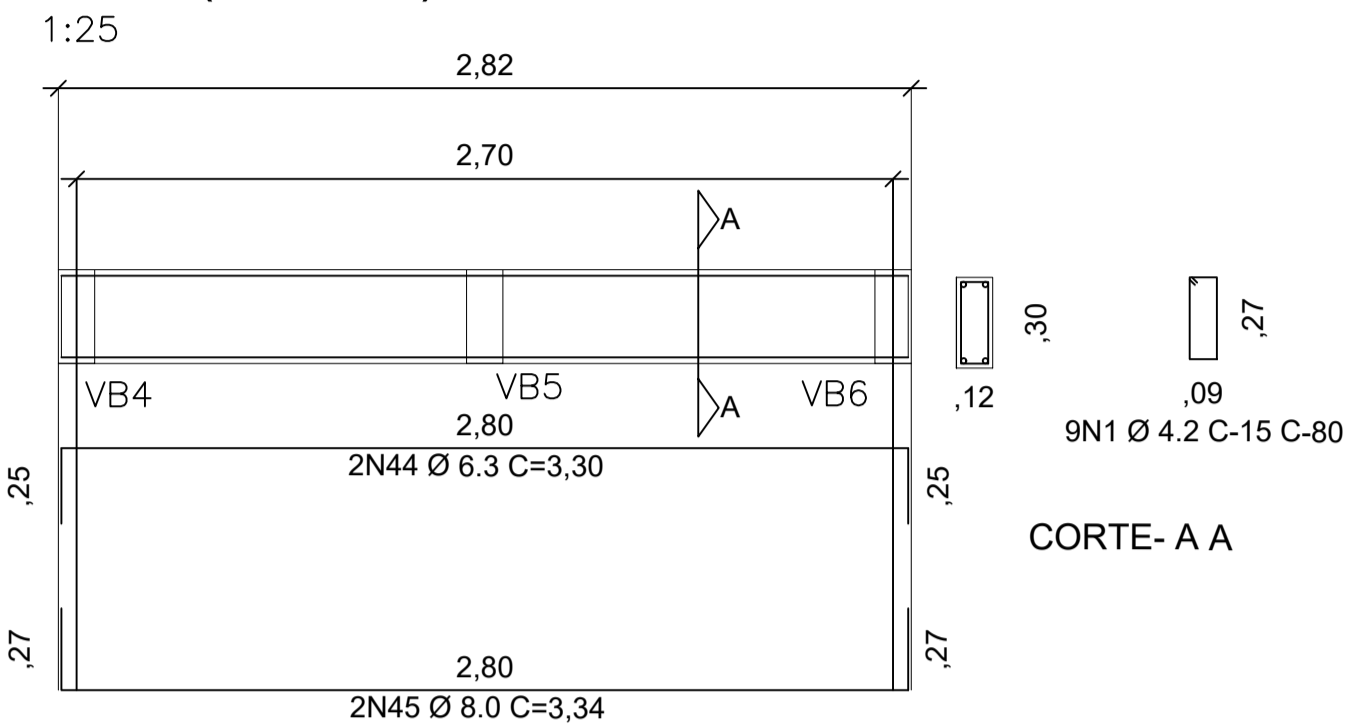
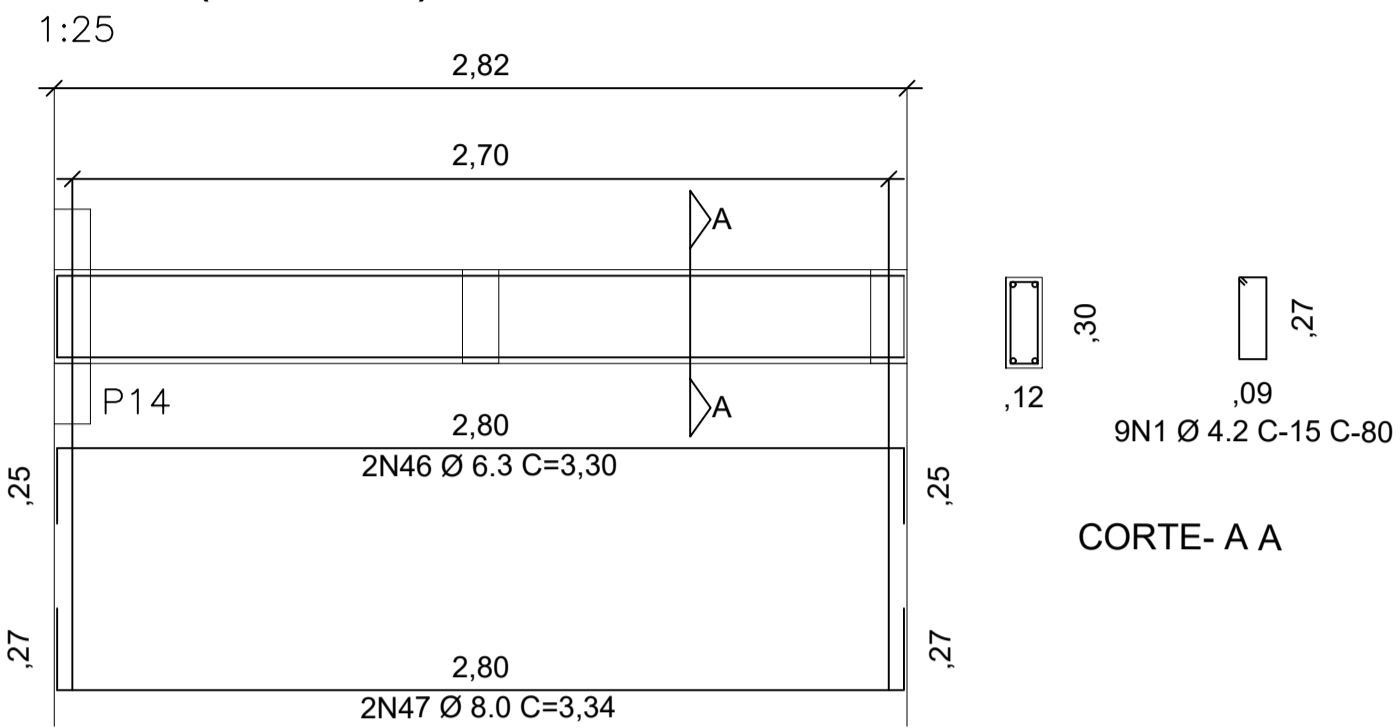


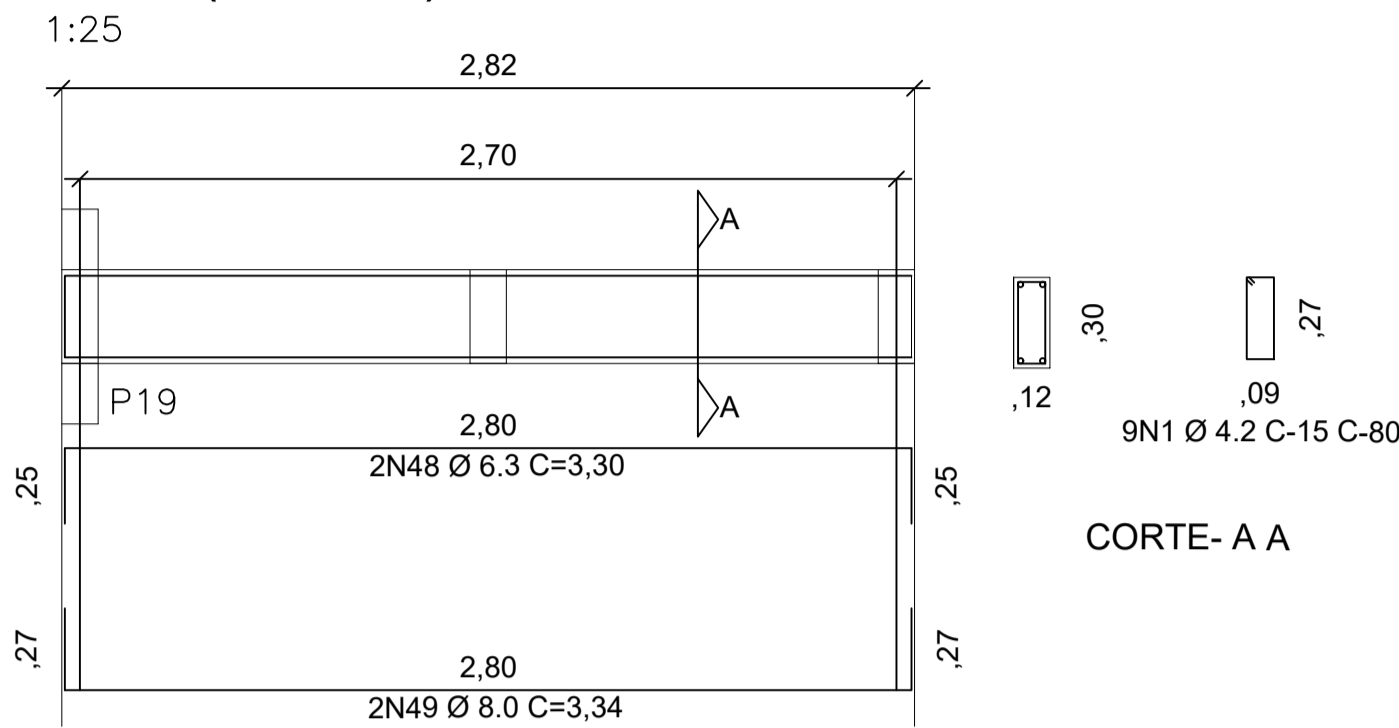
**VB15 (12 X 30)**



**VB14 (12 X 30)**



**VB19 (12 X 30)**



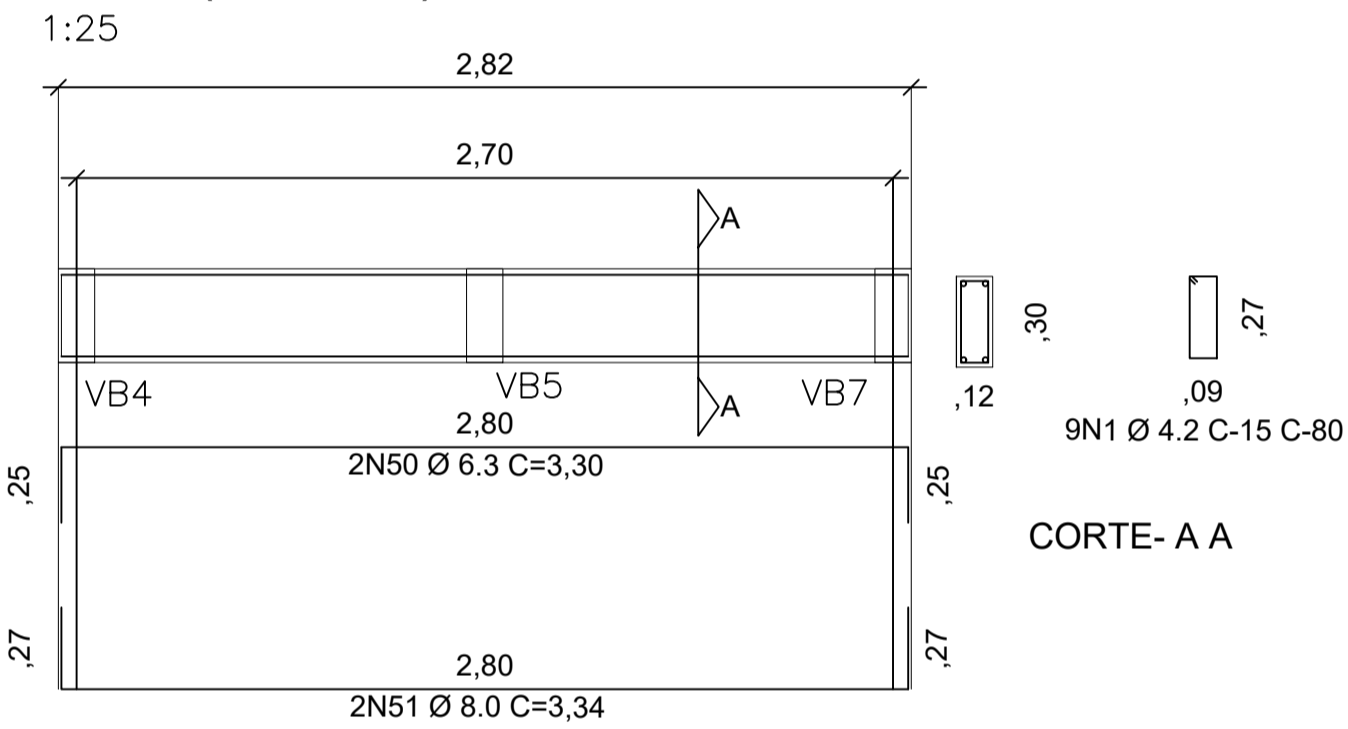
RELAÇÃO DO AÇO P1,P2,P3,P4,P5,P6,P7,P8,P9,P10/  
P11,P12,P13,P14,P15,P16,P17,P18,P19,  
P20,P21,P22

N	Ø	Q	COMPRIMENTO		PESO	
			UNIT.	TOTAL	Kg P/M	TOTAL KG
1	4.2	520	0.80	416.0	0.109	41.34
2	4.2	288	0.60	172.8	0.109	18.84
3	6.0	60	2.00	120.0	0.393	47.16
4	6.0	60	3.40	204.0	0.393	80.17
5	8.0	40	3.90	156.0	0.393	61.31
6	8.0	48	1.50	72.0	0.393	28.30
7	8.0	48	2.90	139.2	0.393	54.71
PESO TOTAL DO AÇO CA-50						271.64
PESO TOTAL DO AÇO CA-60						60.18

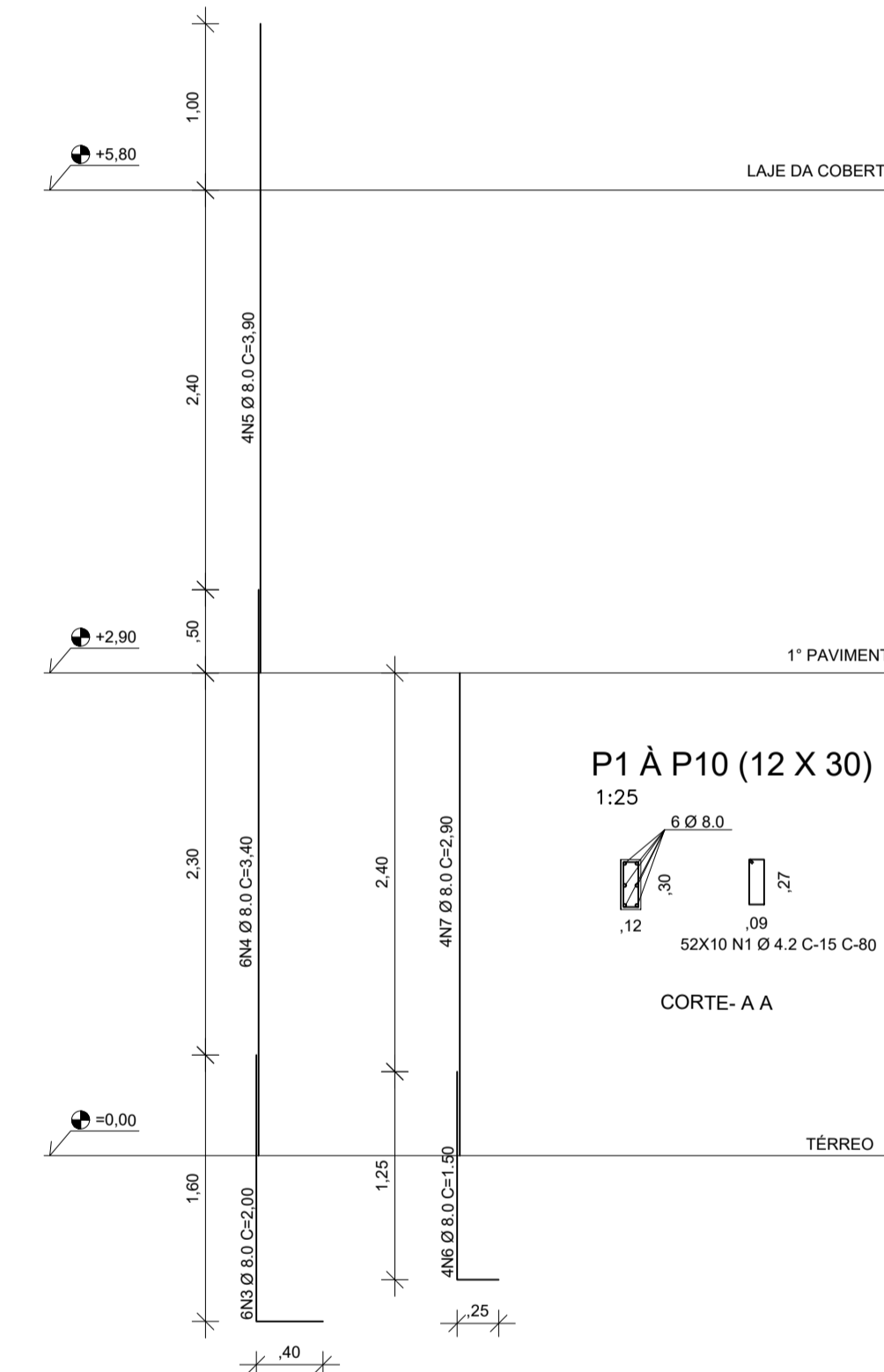
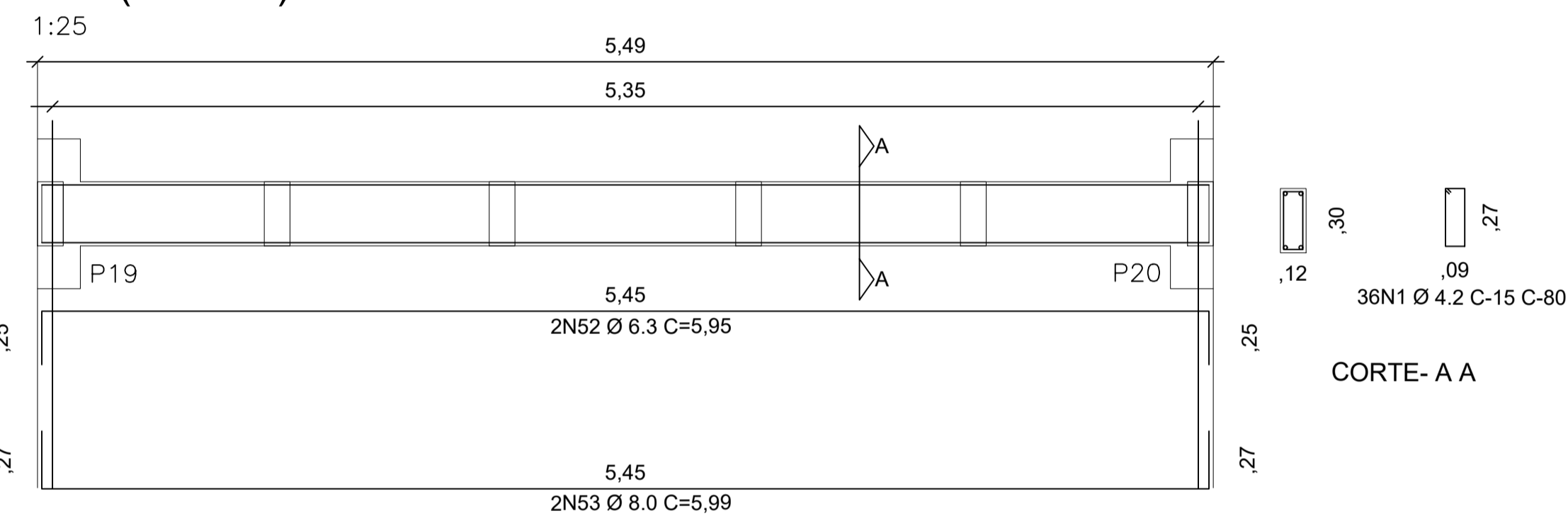
VOLUME CONCRETO M³

P	L	C	H	TOTAL
1	0.12	0.30	6.80	0.24
2	0.12	0.30	6.80	0.24
3	0.12	0.30	6.80	0.24
4	0.12	0.30	6.80	0.24
5	0.12	0.30	6.80	0.24
6	0.12	0.30	6.80	0.24
7	0.12	0.30	6.80	0.24
8	0.12	0.30	6.80	0.24
9	0.12	0.30	6.80	0.24
10	0.12	0.30	6.80	0.24
11	0.12	0.20	2.90	0.07
12	0.12	0.20	2.90	0.07
13	0.12	0.20	2.90	0.07
14	0.12	0.20	2.90	0.07
15	0.12	0.20	2.90	0.07
16	0.12	0.20	2.90	0.07
17	0.12	0.20	2.90	0.07
18	0.12	0.20	2.90	0.07
19	0.12	0.20	2.90	0.07
20	0.12	0.20	2.90	0.07
21	0.12	0.20	2.90	0.07
22	0.12	0.20	2.90	0.07
TOTAL				3.29

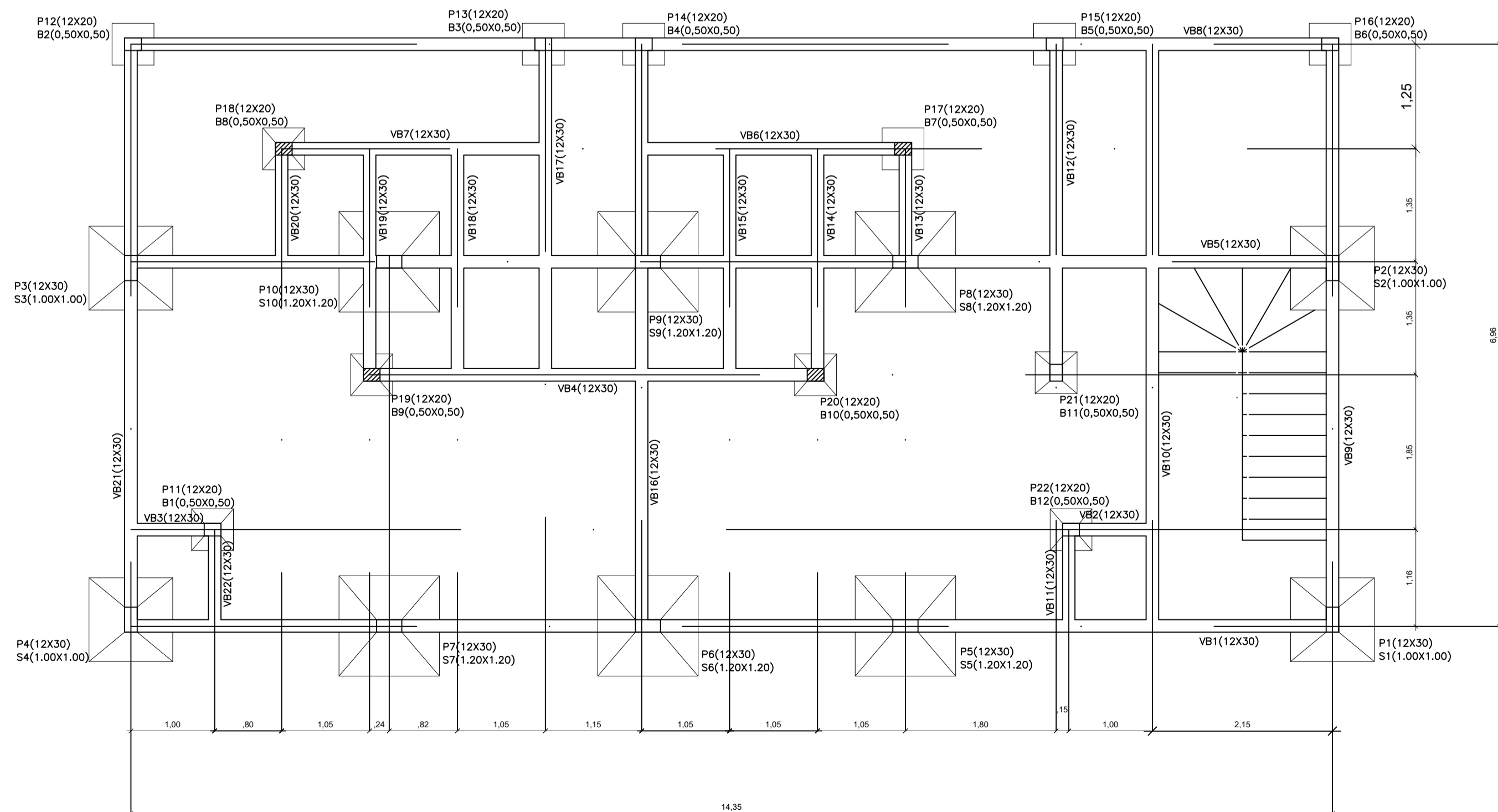
**VB18 (12 X 30)**



**VB4 (12 X 30)**



CONCRETO A SER USADO  
NÃO MENOR QUER 18MPa



RELAÇÃO DO AÇO VB4,VB14,VB15,VB18,VB19

N	Ø	Q	COMPRIMENTO		PESO	
			UNIT.	TOTAL	Kg P/M	TOTAL KG
1	4.2	72	0.80	57.6	0.109	6.28
44	6.3	2	3.30	6.6	0.248	3.27
45	8.0	2	3.34	6.7	0.393	5.25
46	6.3	2	3.30	6.6	0.248	3.27
47	8.0	2	3.34	6.7	0.393	5.25
48	6.3	2	3.30	6.6	0.248	3.27
49	8.0	2	3.34	6.7	0.393	5.25
50	6.3	2	3.30	6.6	0.248	3.27
51	8.0	2	3.34	6.7	0.393	5.25
52	6.3	2	5.95	11.9	0.248	5.90
53	8.0	2	5.99	12.0	0.393	9.42
PESO TOTAL DO AÇO CA-50						49.42
PESO TOTAL DO AÇO CA-60						6.28

VOLUME CONCRETO M³

VB	L	H	C	M³	TOTAL
4	0.12	0.30	5.10	0.18	
14	0.12	0.30	3.00	0.11	
15	0.12	0.30	3.00	0.11	
18	0.12	0.30	3.00	0.11	
19	0.12	0.30	3.00	0.11	
TOTAL				0.62	

FORMAS E LOCAÇÃO DAS FUNDAÇÕES  
ESC.:----- 1/50



PREFEITURA DE MAURITI



MARX2 CONSTRUÇÕES EIRELI-ME

PROJETO: REFORMA E AMPLIAÇÃO DO ESTÁDIO MUNICIPAL VALDERI CARVALHO

PROPRIETÁRIO: PREFEITURA MUNICIPAL DE MAURITI

ENDEREÇO / OBRA: PADRE MARANHÃO SEDE DO MUNICÍPIO - MAURITI - CEARÁ

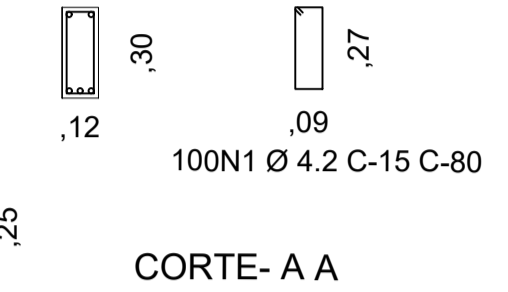
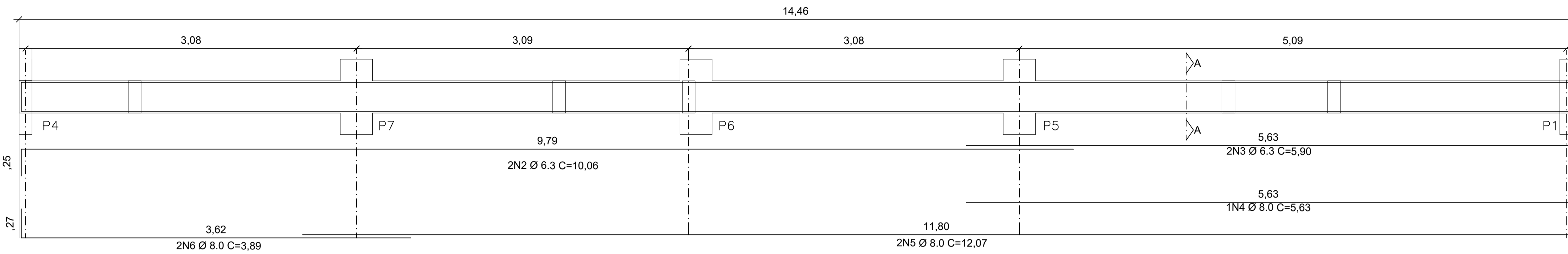
ASSUNTO: ESTRUTURAL - TRIBUNA E VESTIÁRIOS PRANCHA

- FORMAS DAS SAPATAS, BALDRAMES E ARMADURAS

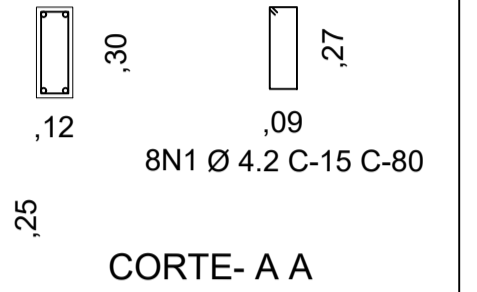
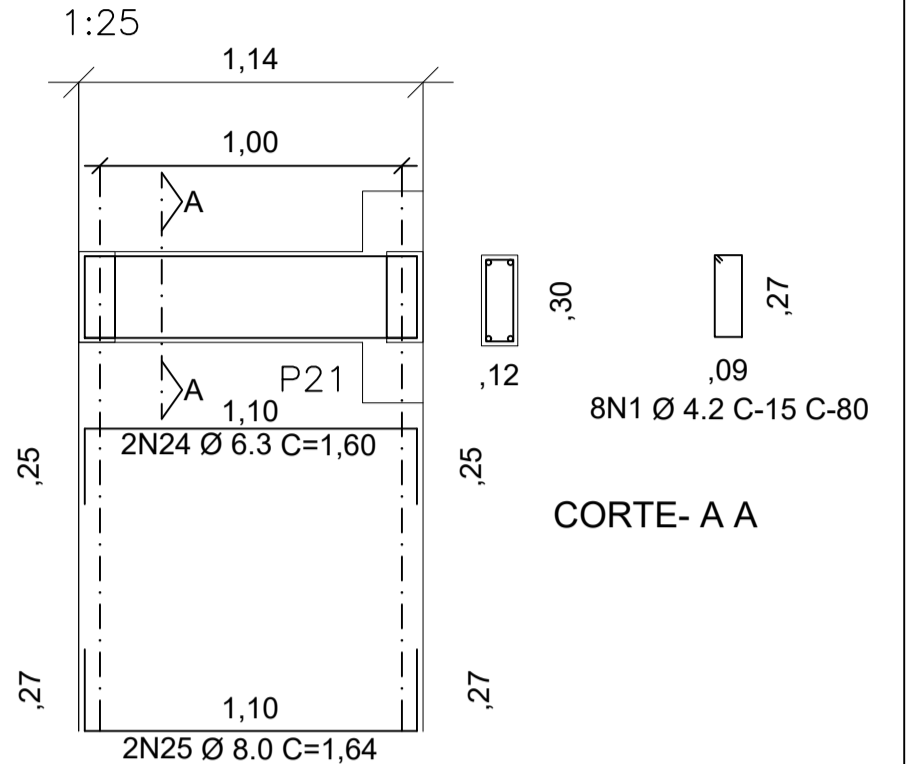
01.11

PROJETO: MARX2PROJETOS	DESENHO: MARX2PROJETOS	ESCALA: INDICADA	DATA: JANEIRO - 2022
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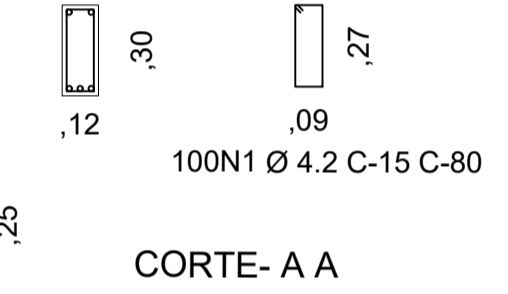
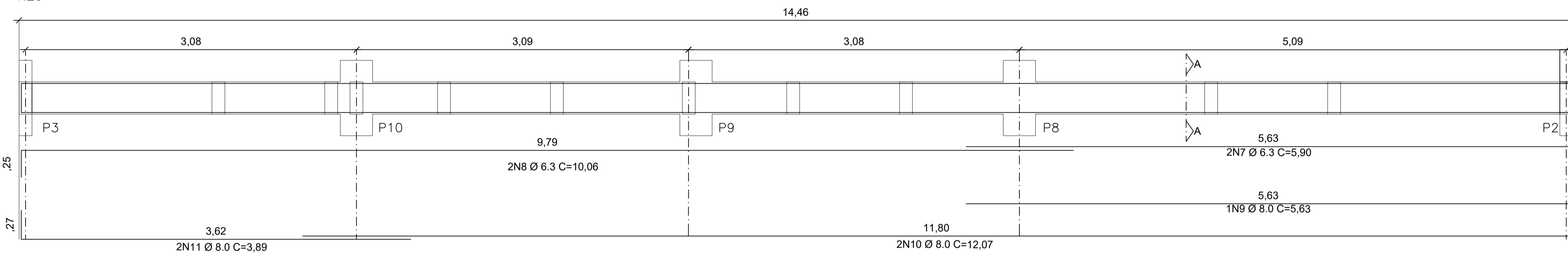
**VB1 (12 X 30)**  
1:25



**VB3 (12 X 30)**  
1:25



**VB5 (12 X 30)**  
1:25



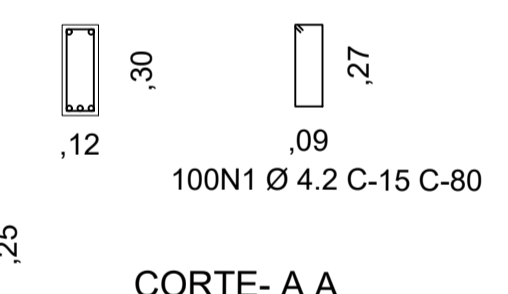
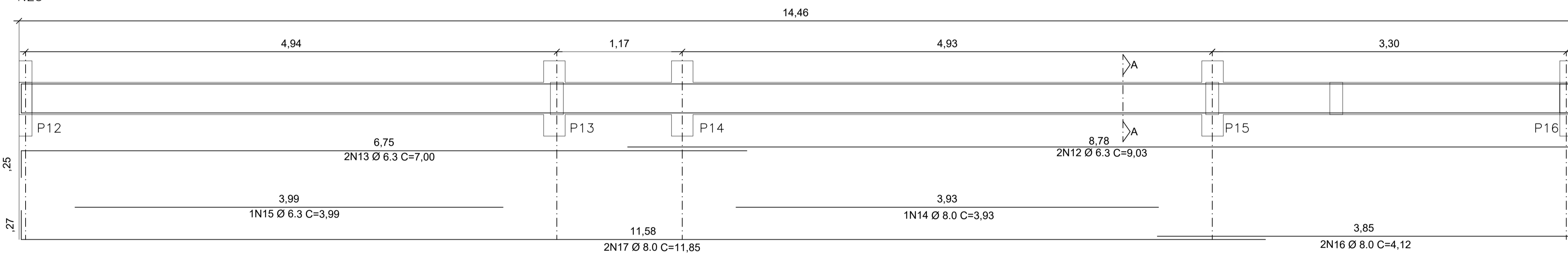
**RELAÇÃO DO AÇO** VB1,VB2,VB3,VB5,VB6,VB7,VB8

N	Ø	Q	COMPRIMENTO		PESO Kg P/M	PESO TOTAL KG
			UNIT.	TOTAL		
1	4.2	298	0.80	238.4	0.109	20.72
2	6.3	2	10.06	20.1	0.248	9.98
3	6.3	2	5.90	11.8	0.248	5.85
4	6.3	2	14.34	28.7	0.248	7.11
5	10.0	2	5.63	11.3	0.624	14.05
6	10.0	2	12.07	24.1	0.624	15.06
7	8.0	2	3.89	7.8	0.393	3.06
8	6.3	2	5.90	11.8	0.248	5.85
9	6.3	2	10.06	20.1	0.248	4.99
10	6.3	2	14.34	28.7	0.248	7.11
11	10.0	2	5.63	11.3	0.624	7.03
12	8.0	2	3.89	7.8	0.393	6.12
13	10.0	2	12.07	24.1	0.624	15.06
14	6.3	2	9.03	18.1	0.248	4.48
15	6.3	2	7.00	14.0	0.248	3.57
16	8.0	2	11.85	23.7	0.393	9.31
17	8.0	2	4.12	8.2	0.393	3.24
18	6.3	2	5.67	11.3	0.248	5.62
19	6.3	2	5.09	10.2	0.248	5.05
20	8.0	2	5.09	10.2	0.393	8.00
21	8.0	2	5.71	11.4	0.393	8.98
22	6.3	2	1.60	3.2	0.248	1.59
23	8.0	2	1.64	3.3	0.393	1.29
24	6.3	2	1.60	3.2	0.248	1.59
25	8.0	2	1.64	3.3	0.393	1.29
PESO TOTAL DO AÇO CA-50						155,29
PESO TOTAL DO AÇO CA-60						20,72

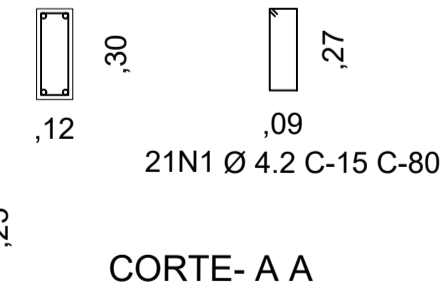
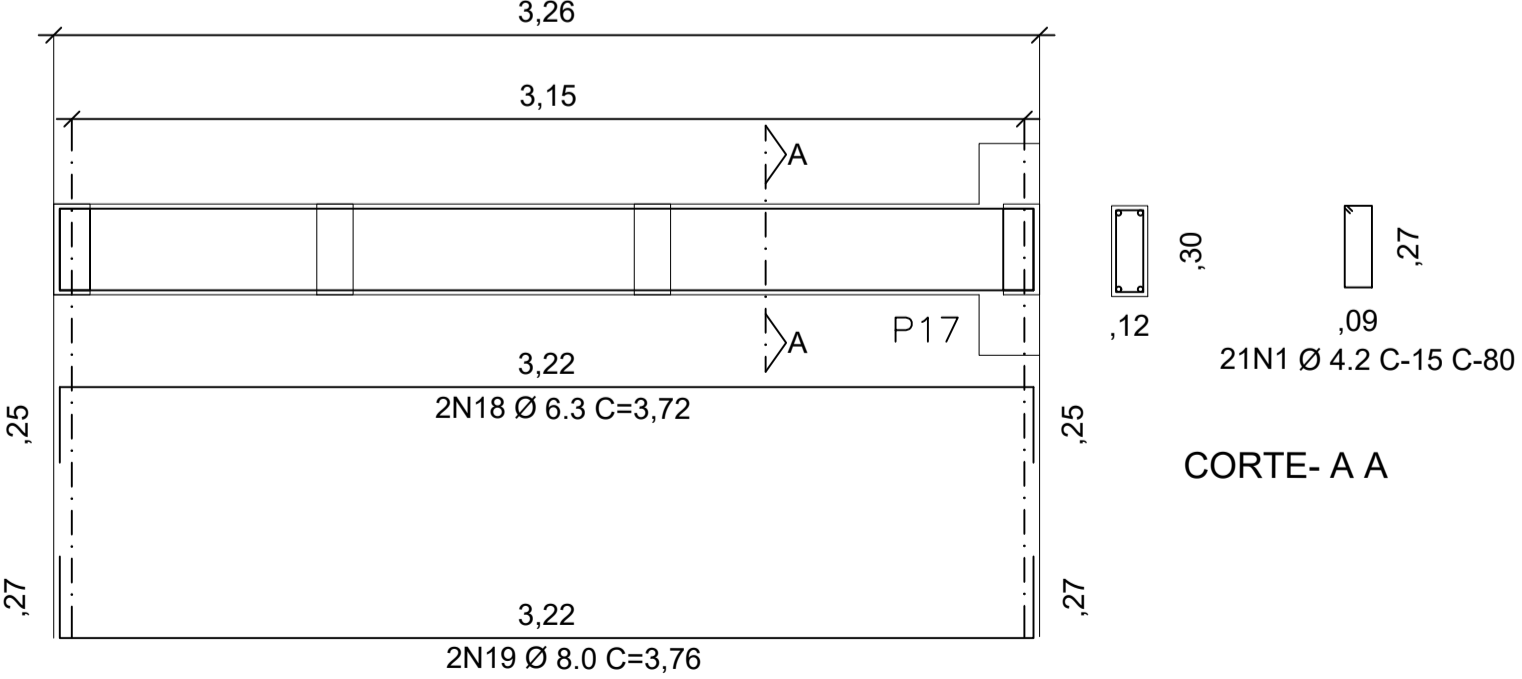
**VOLUME CONCRETO M³**

VB	L	H	C	TOTAL
1	0,12	0,30	14,20	0,51
2	0,12	0,30	1,00	0,04
3	0,12	0,30	1,00	0,04
5	0,12	0,30	14,20	0,51
6	0,12	0,30	3,00	0,11
7	0,12	0,30	3,00	0,11
8	0,12	0,30	14,20	0,51
TOTAL				1,83

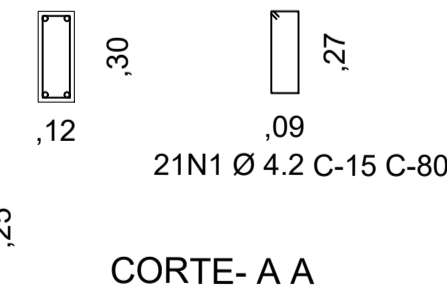
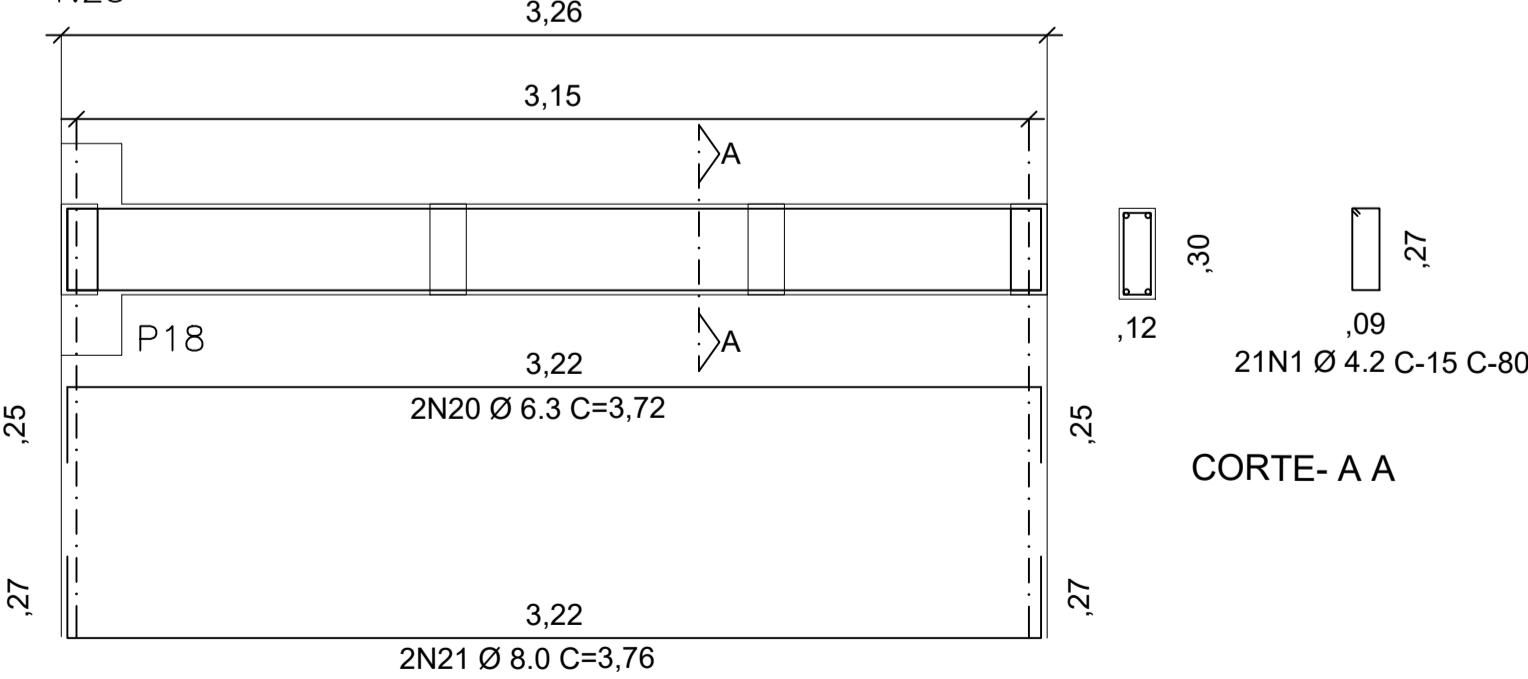
**VB8 (12 X 30)**  
1:25



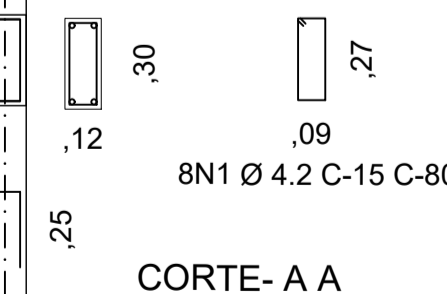
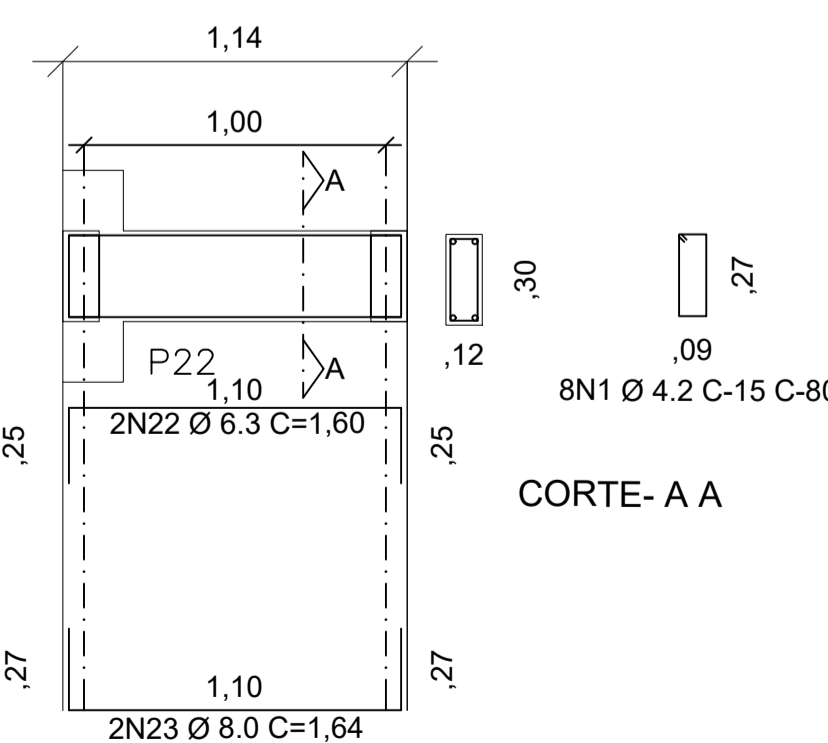
**VB6 (12 X 30)**  
1:25



**VB7 (12 X 30)**  
1:25

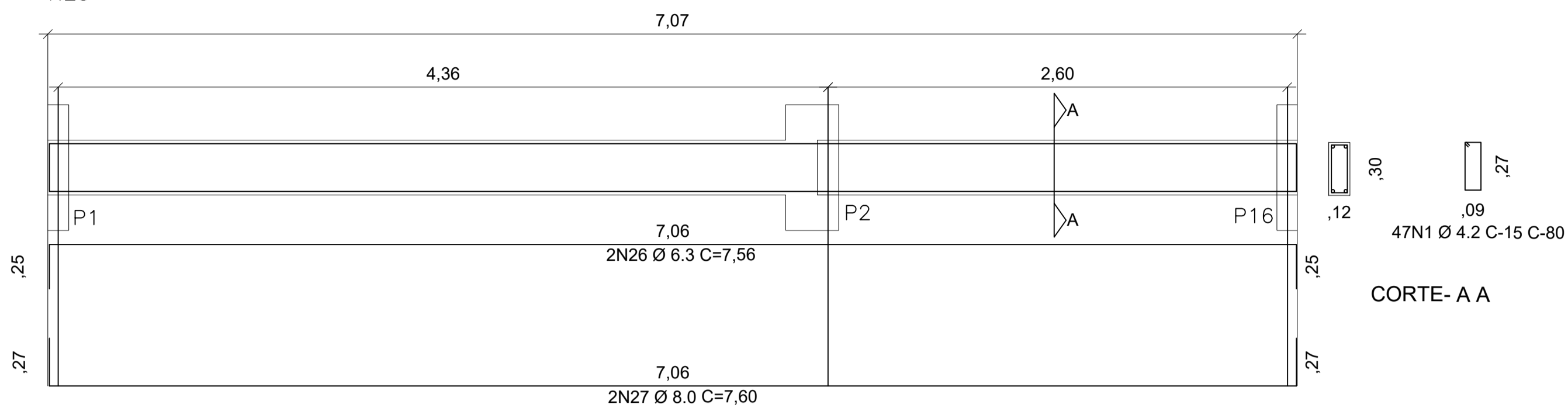


**VB2 (12 X 30)**  
1:25

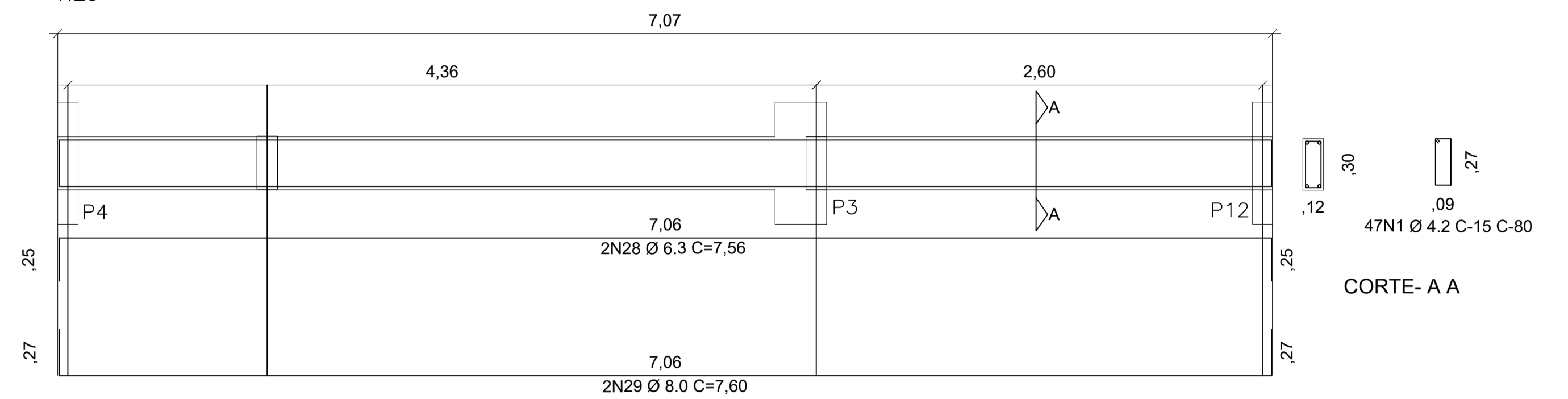


PROJETO	REFORMA E AMPLIAÇÃO DO ESTÁDIO MUNICIPAL VALDERI CARVALHO		
PROPRIETÁRIO	PREFEITURA MUNICIPAL DE MAURITI		
ENDEREÇO / OBRA	PADRE MARANHÃO SEDE DO MUNICÍPIO - MAURITI - CEARÁ		
ASSUNTO	ESTRUTURAL - TRIBUNA E VESTIÁRIOS	PRANCHA	
- ARMADURAS DAS VIGAS BALDRAMES			02.11
PROJETO	DESENHO	ESCALA	DATA
MARX2PROJETOS	MARX2PROJETOS	INDICADA	JANEIRO - 2022

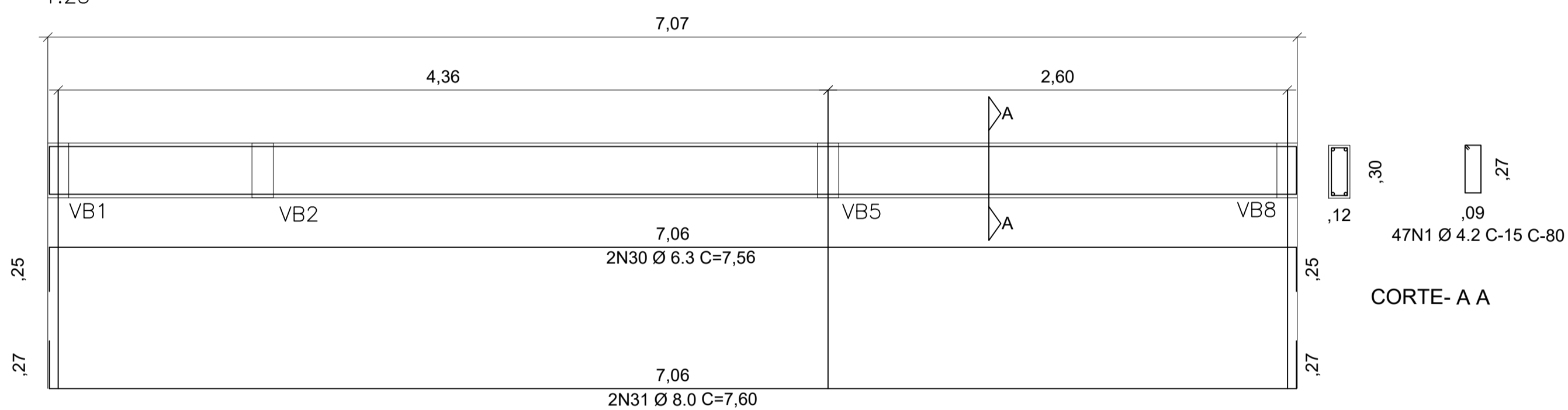
**VB9 (12 X 30)**  
1:25



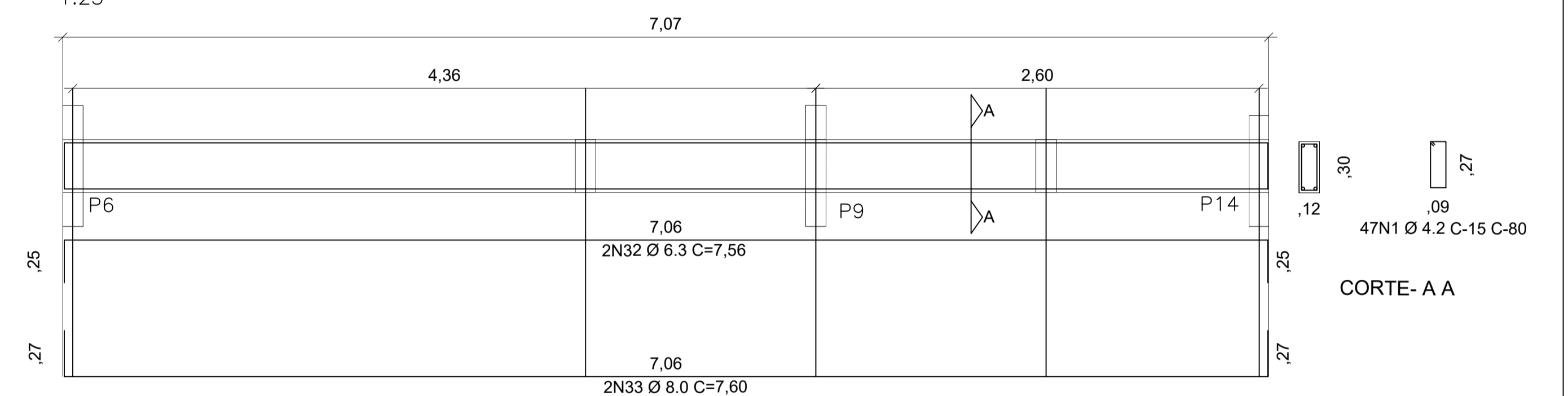
**VB21 (12 X 30)**  
1:25



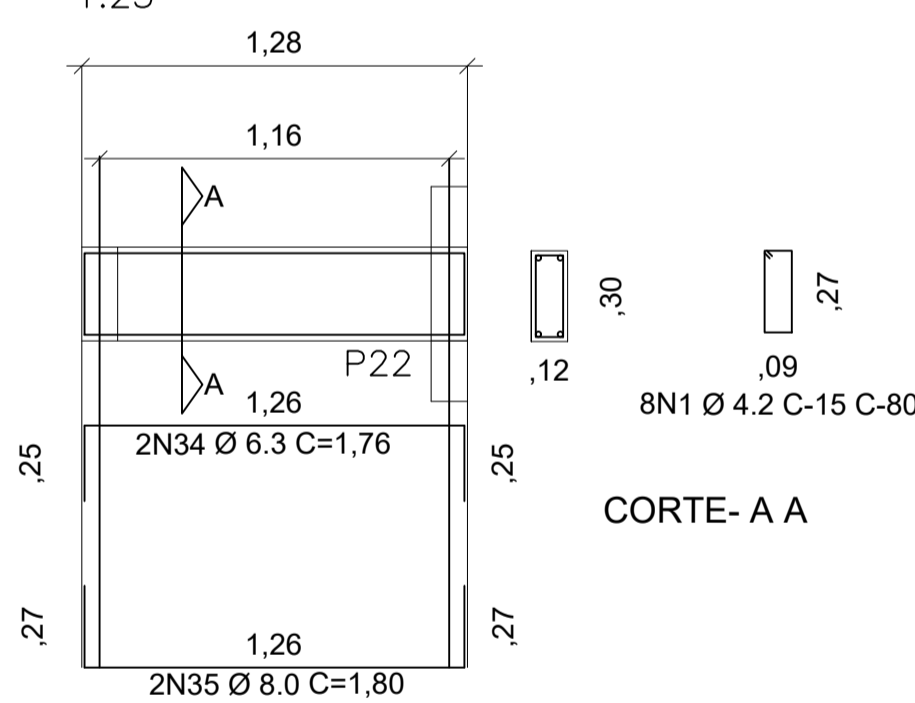
**VB10 (12 X 30)**  
1:25



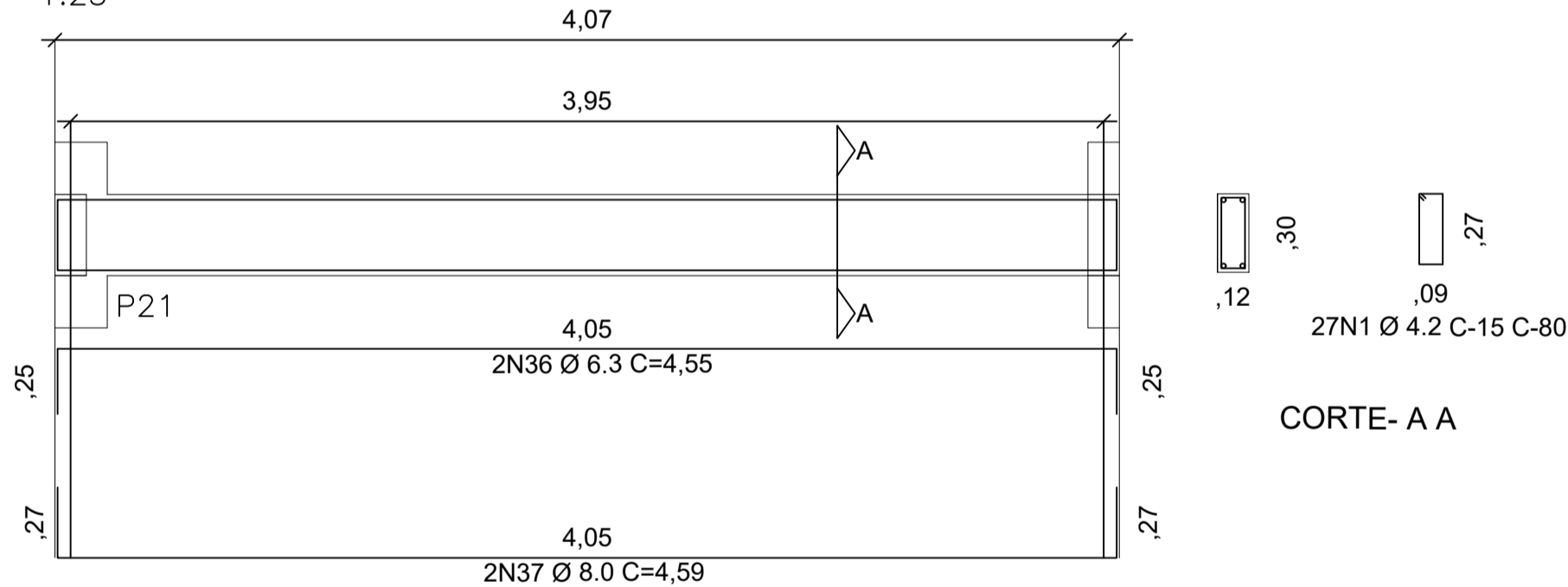
**VB16 (12 X 30)**  
1:25



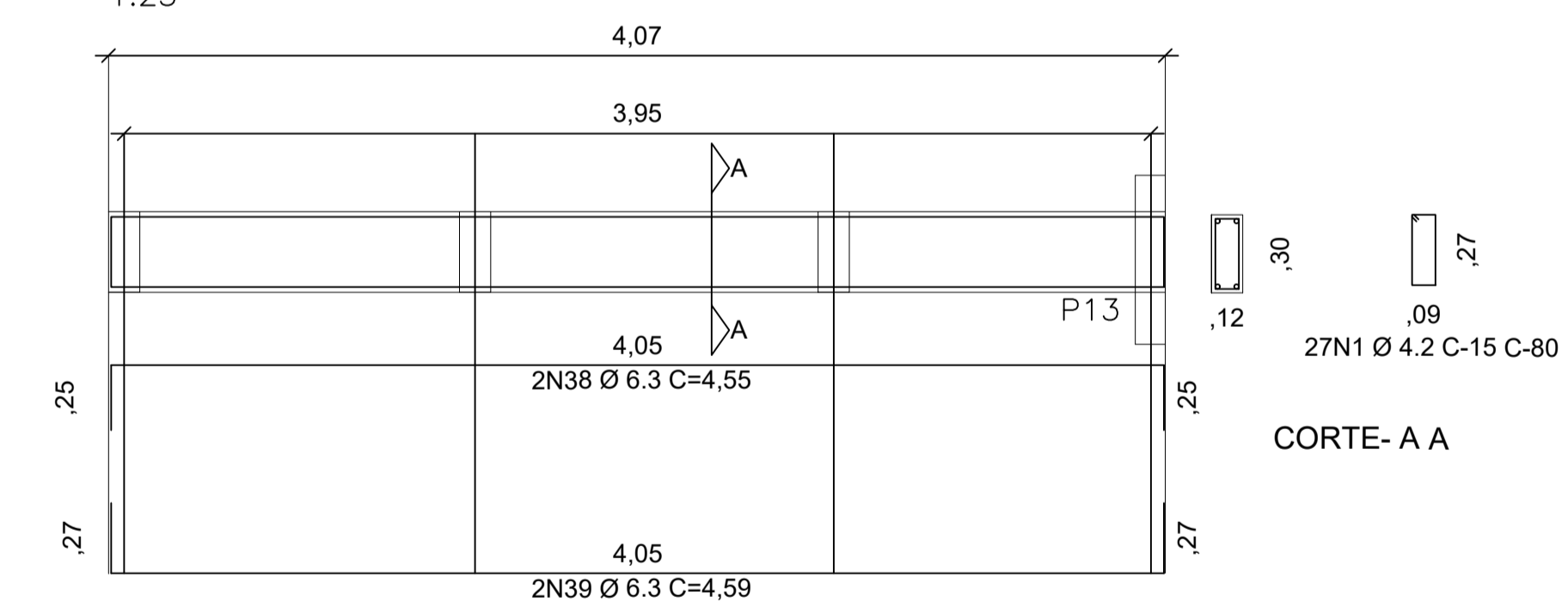
**VB11 (12 X 30)**  
1:25



**VB12 (12 X 30)**  
1:25

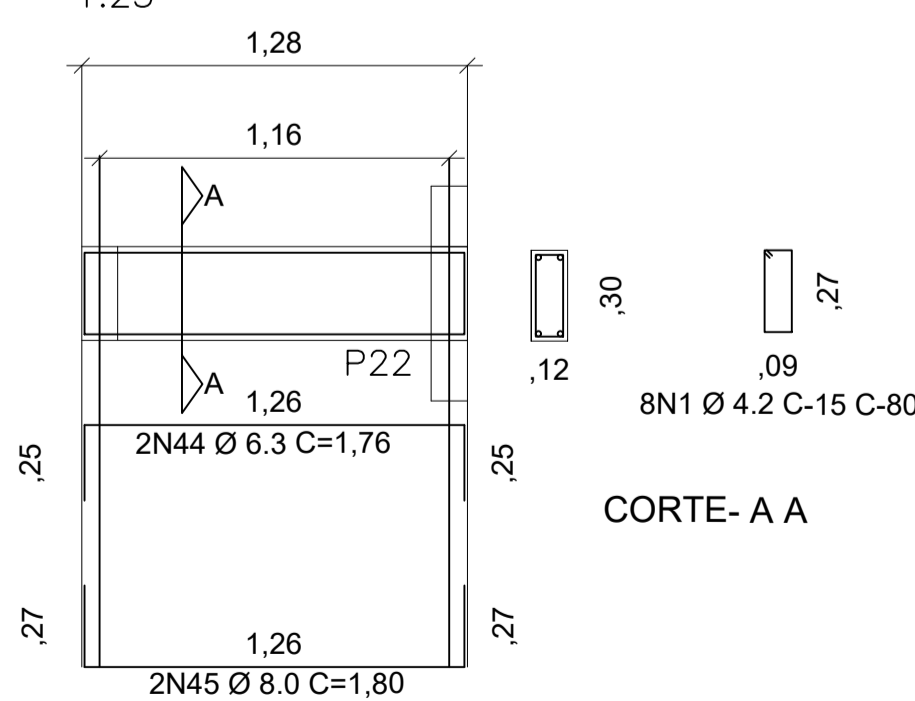


**VB17 (12 X 30)**  
1:25

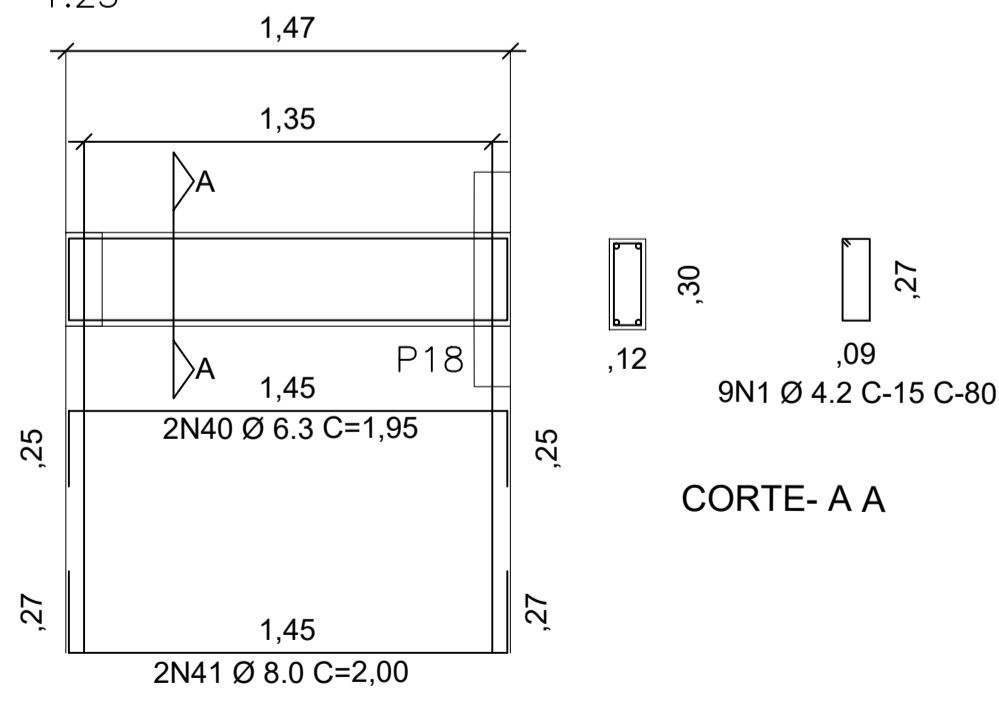


VOLUME CONCRETO M³					
VB	L	H	C	TOTAL	
9	0.12	0.30	6.80	0.24	
10	0.12	0.30	6.80	0.24	
11	0.12	0.30	1.00	0.04	
12	0.12	0.30	3.80	0.14	
13	0.12	0.30	1.20	0.04	
16	0.12	0.30	6.80	0.24	
17	0.12	0.30	3.80	0.14	
20	0.12	0.30	1.20	0.04	
21	0.12	0.30	6.80	0.24	
22	0.12	0.30	1.00	0.04	
			TOTAL	1.41	

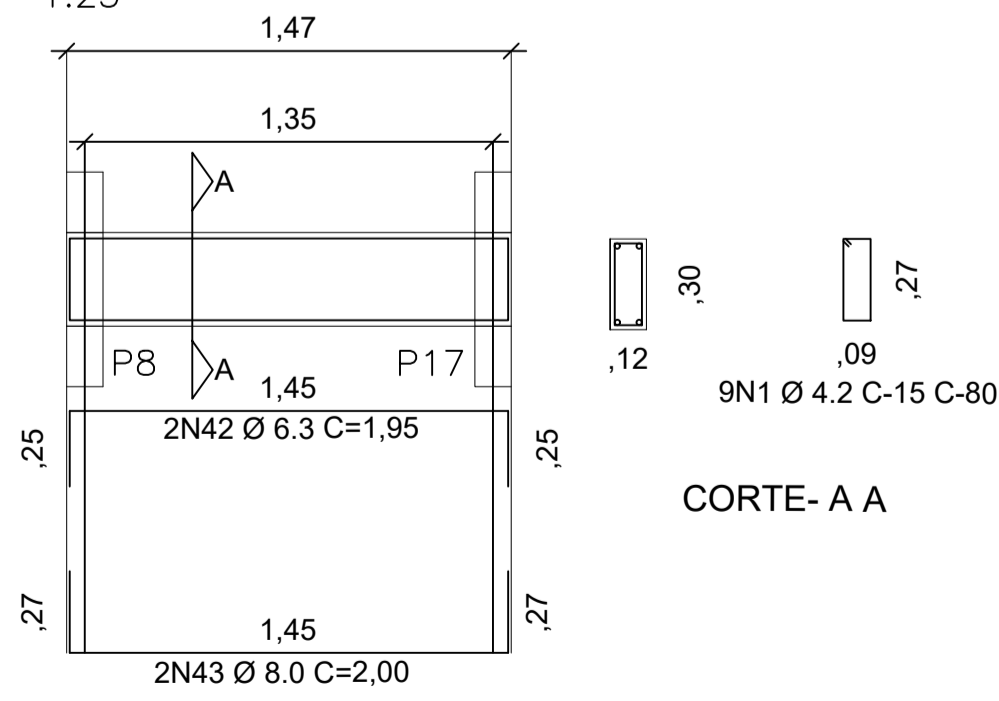
**VB22 (12 X 30)**  
1:25



**VB20 (12 X 30)**  
1:25



**VB13 (12 X 30)**  
1:25



RELAÇÃO DO AÇO VB9,VB10,VB11,VB12,VB13,VB16,VB17,V B20,VB21						
N	Ø	Q	COMPRIMENTO UNIT.	TOTAL	PESO Kg P/M	PESO TOTAL KG
1	4.2	200	0.80	160.0	0.109	17.44
26	6.3	2	7.56	15.1	0.248	3.75
27	8.0	2	7.60	15.2	0.393	5.97
28	6.3	2	7.56	15.1	0.248	3.75
29	8.0	2	7.60	15.2	0.393	5.97
30	6.3	2	7.56	15.1	0.248	3.75
31	8.0	2	7.56	15.1	0.393	5.94
32	6.3	2	7.56	15.1	0.248	3.75
33	8.0	2	7.56	15.1	0.393	5.94
34	6.3	2	1.76	3.5	0.248	1.75
35	8.0	2	1.80	3.6	0.393	2.83
36	6.3	2	4.55	9.1	0.248	4.51
37	8.0	2	4.59	9.2	0.393	7.22
38	6.3	2	4.55	9.1	0.248	4.51
39	6.3	2	4.59	9.2	0.248	4.55
40	6.3	2	1.95	3.9	0.248	1.93
41	8.0	2	2.00	4.0	0.393	3.14
42	6.3	2	1.95	3.9	0.248	1.93
43	8.0	2	2.00	4.0	0.393	3.14
PESO TOTAL DO AÇO CA-50						91.80
PESO TOTAL DO AÇO CA-60						17.44



PROJETO REFORMA E AMPLIAÇÃO DO ESTÁDIO MUNICIPAL VALDERI CARVALHO

PROPRIETÁRIO PREFEITURA MUNICIPAL DE MAURITI

ENDEREÇO / OBRA RUA PADRE MARANHÃO SEDE DO MUNICÍPIO - MAURITI - CEARÁ

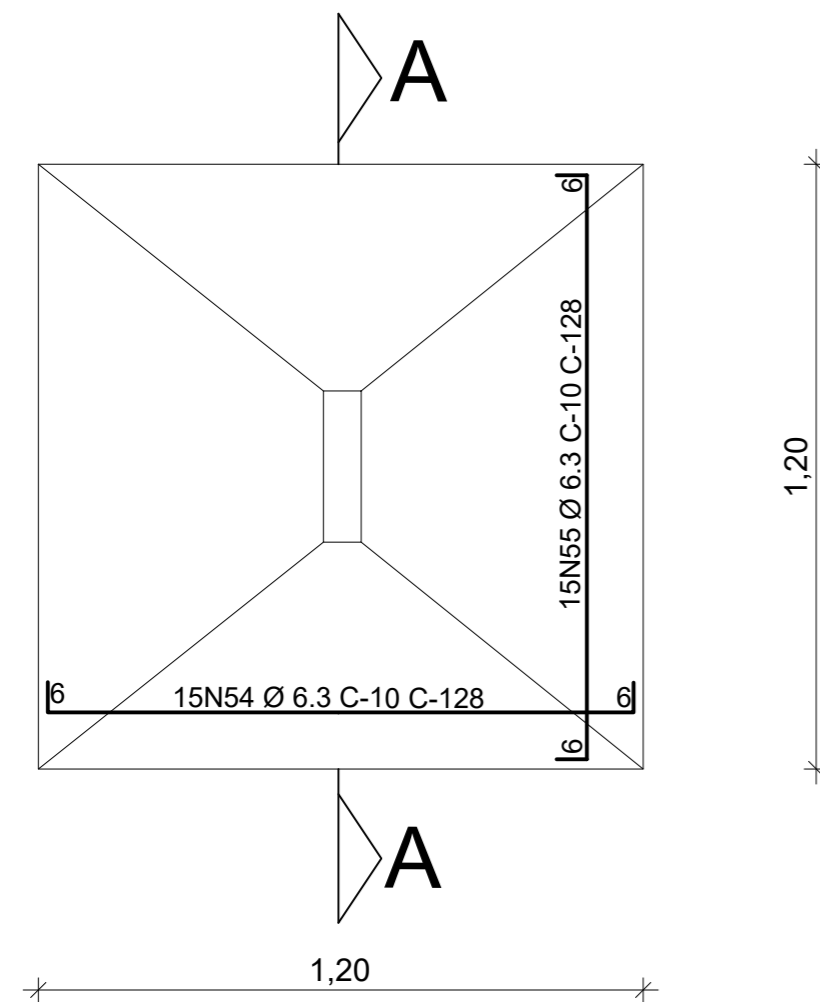
ASSUNTO ESTRUTURAL - TRIBUNA E VESTIÁRIOS PRANCHA

- ARMADURAS DAS VIGAS BALDRAMES 03.11

PROJETO MARX2PROJETOS DESENHO MARX2PROJETOS ESCALA INDICADA DATA JANEIRO - 2022

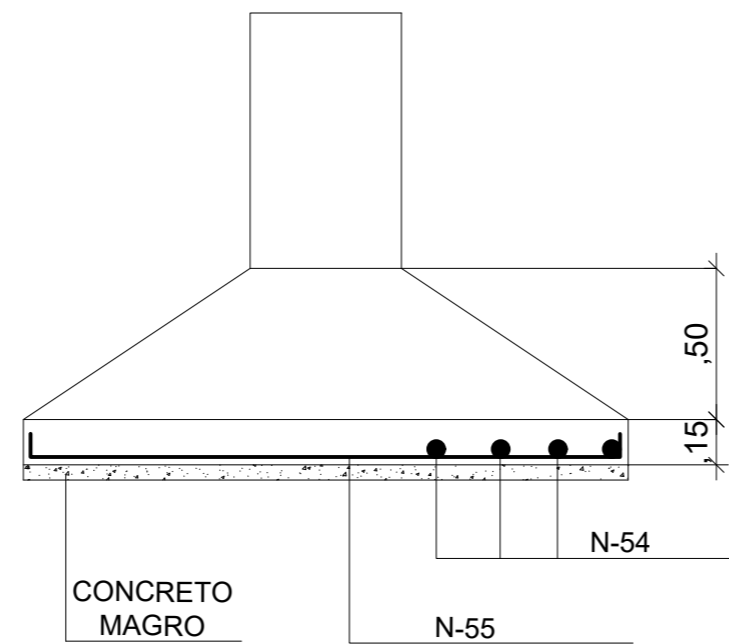
PL.BAIXA DA S05 À S10 (120 X 120)

S/ESCALA



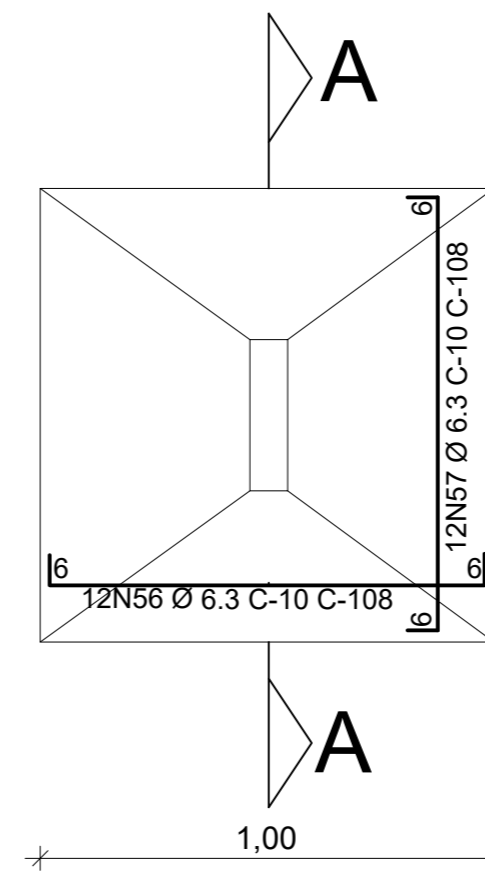
CORTE A-A

S/ESCALA



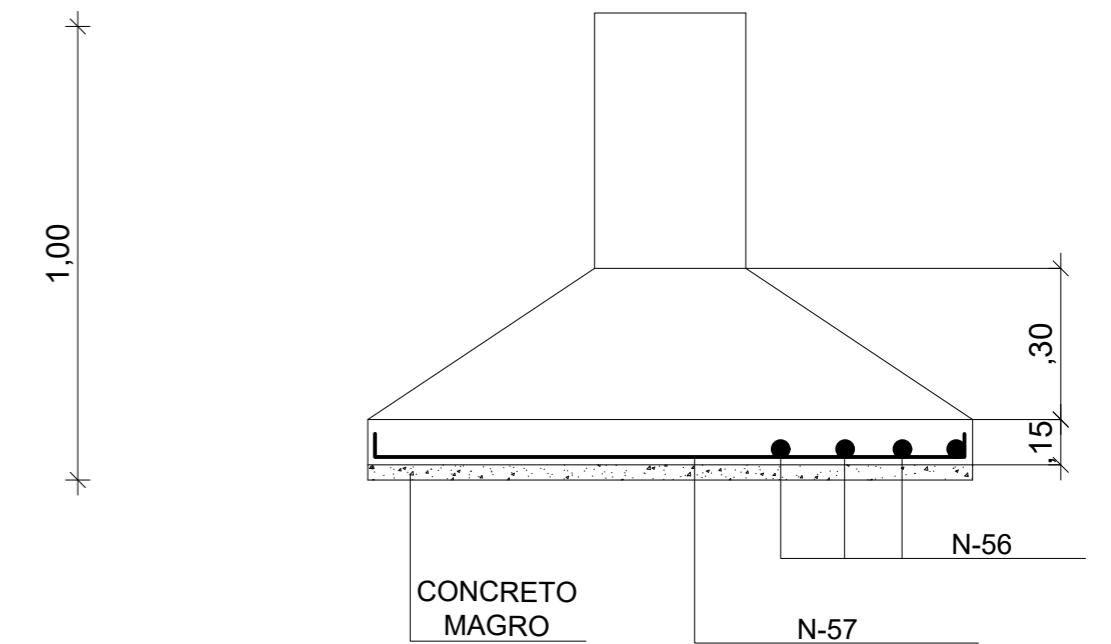
PL.BAIXA DA S01 À S04 (100 X 100)

S/ESCALA



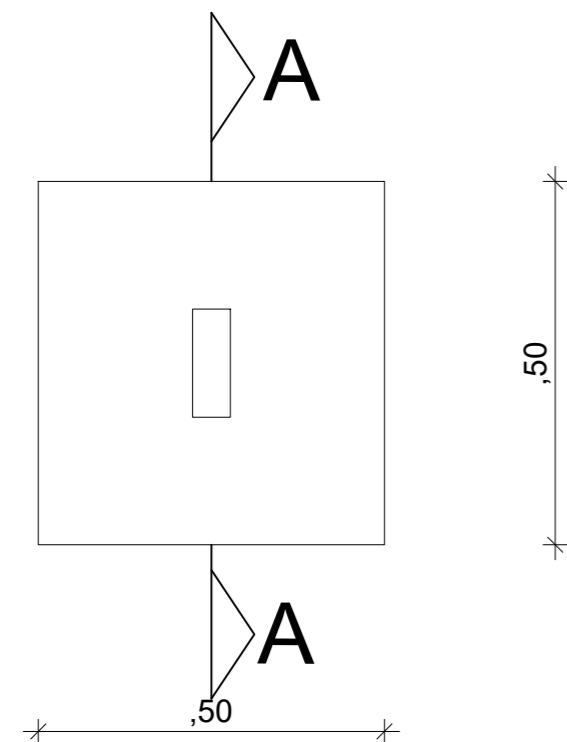
CORTE A-A

S/ESCALA



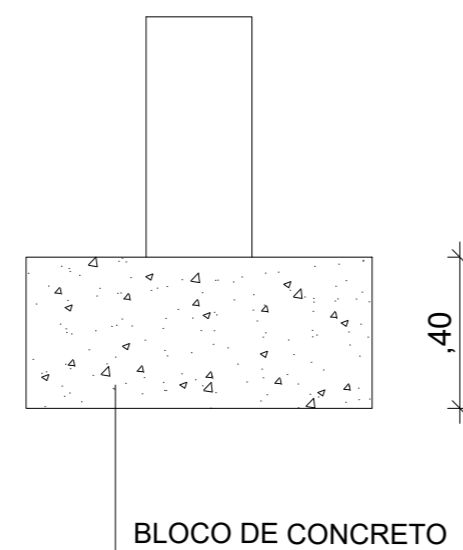
PLANTA BAIXA DOS  
BL.01 À BL.12 (,50 X ,50)

S/ESCALA



CORTE A-A

S/ESCALA



RELAÇÃO DO AÇO S1,S2,S3,S4,S5,S6,S7,S8,S9,S10

N	Ø	Q	COMPRIMENTO		PESO Kg P/M	PESO TOTAL KG
			UNIT.	TOTAL		
54	6.3	150	1,28	192,0	0,248	47,62
55	6.3	150	1,28	192,0	0,248	47,62
56	6.3	144	1,08	155,5	0,248	38,57
57	6.3	144	1,08	155,5	0,248	38,57
PESO TOTAL DO AÇO CA-50						172,37

VOLUME CONCRETO M³

SAP.	L	C	H	TOTAL
1	1,00	1,00	0,45	0,27
2	1,00	1,00	0,45	0,27
3	1,00	1,00	0,45	0,27
4	1,00	1,00	0,45	0,27
5	1,20	1,20	0,65	0,50
6	1,20	1,20	0,65	0,50
7	1,20	1,20	0,65	0,50
8	1,20	1,20	0,65	0,50
9	1,20	1,20	0,65	0,50
10	1,20	1,20	0,65	0,50
TOTAL				4,09

VOLUME CONCRETO M³

BLO.	L	C	H	TOTAL
1	0,50	0,50	0,40	0,10
2	0,50	0,50	0,40	0,10
3	0,50	0,50	0,40	0,10
4	0,50	0,50	0,40	0,10
5	0,50	0,50	0,40	0,10
6	0,50	0,50	0,40	0,10
7	0,50	0,50	0,40	0,10
8	0,50	0,50	0,40	0,10
9	0,50	0,50	0,40	0,10
10	0,50	0,50	0,40	0,10
11	0,50	0,50	0,40	0,10
12	0,50	0,50	0,40	0,10
TOTAL				1,20



PREFEITURA DE  
**MAURITI**  
*Cuidando das pessoas*

**MARX2**  
MARX2 CONSTRUÇÕES EIRELI-ME  
CNPJ: 07.142.384/0001-61  
RUA EDUARDO PORFÍLIO DA COSTA / Nº 320  
DISTRITO DO ROSÁRIO / MILAGRES/CE.  
TELEFONE: (88) 9 8821-4237  
E-MAIL: marx2projetos@gmail.com

PROJETO REFORMA E AMPLIAÇÃO DO ESTÁDIO MUNICIPAL VALDERI CARVALHO

PROPRIETÁRIO  
PREFEITURA MUNICIPAL DE MAURITI

ENDEREÇO / OBRA  
RUA PADRE MARANHÃO SEDE DO MUNICÍPIO - MAURITI - CEARÁ

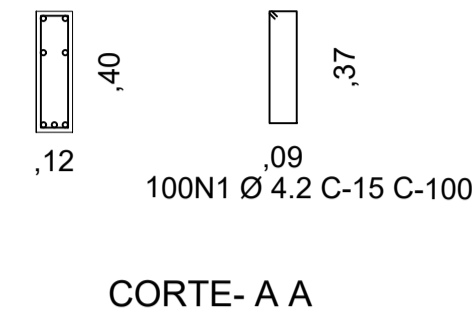
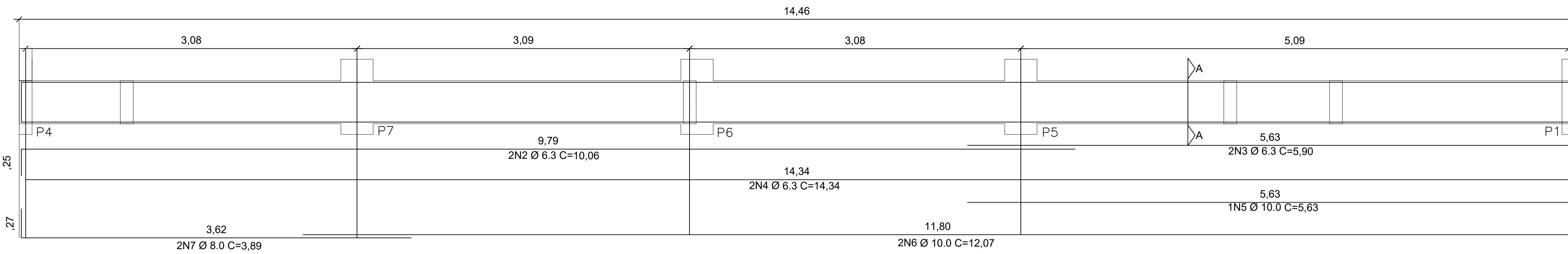
ASSUNTO ESTRUTURAL - TRIBUNA E VESTIÁRIOS PRANCHA  
- ARMADURAS DAS SAPATAS

04.11

PROJETO MARX2PROJETOS DESENHO MARX2PROJETOS ESCALA INDICADA DATA JANEIRO - 2022

### V1 (12 X 40)

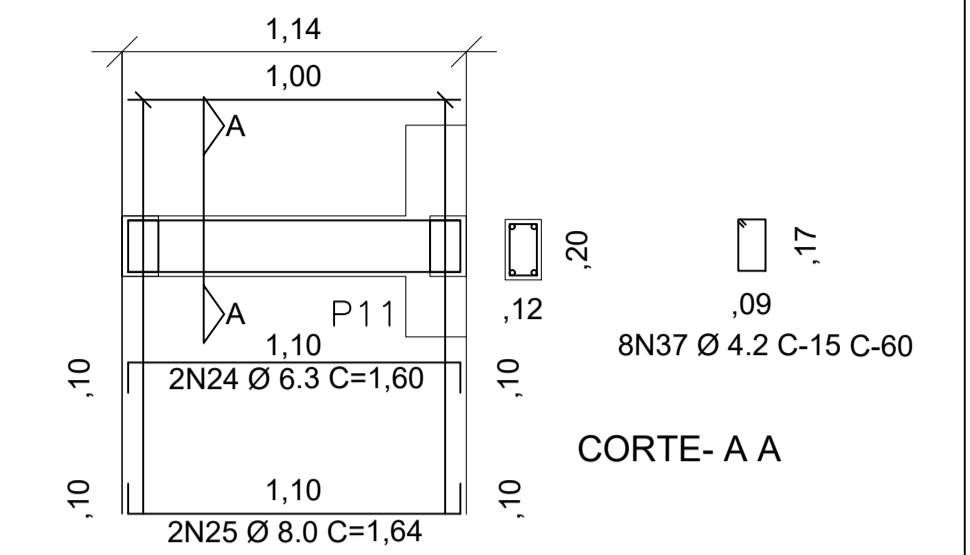
1:25



CORTE- A A

### V6 (12 X 20)

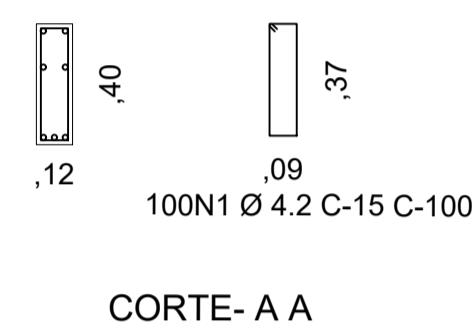
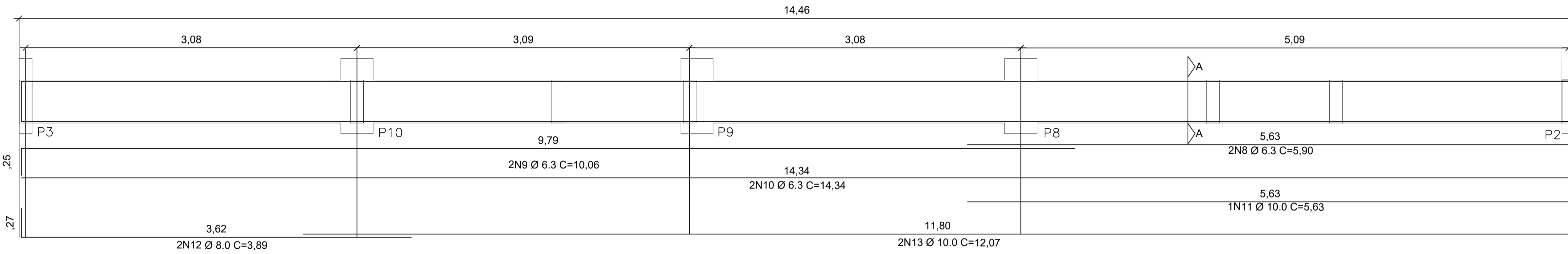
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CORTE- A A

### V2 (12 X 40)

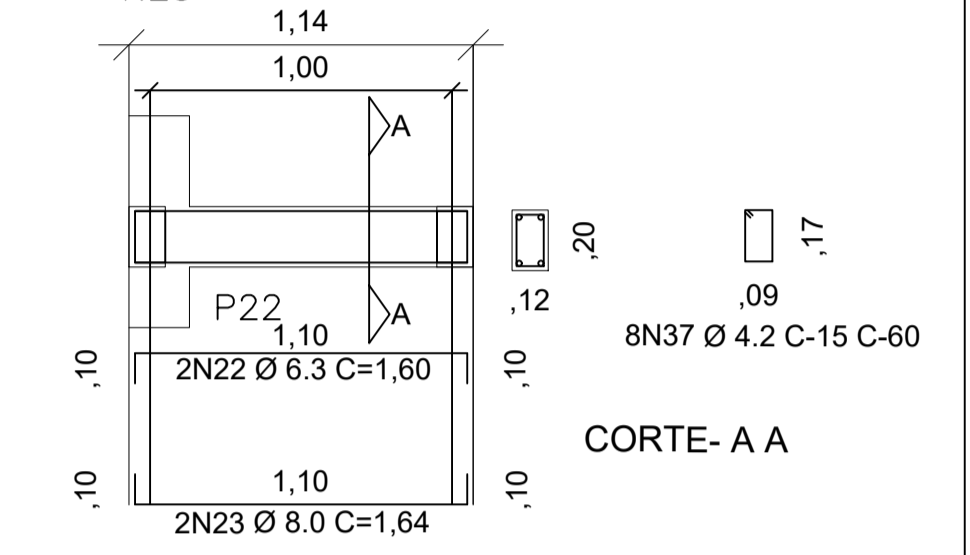
1:25



CORTE- A A

### V5 (12 X 20)

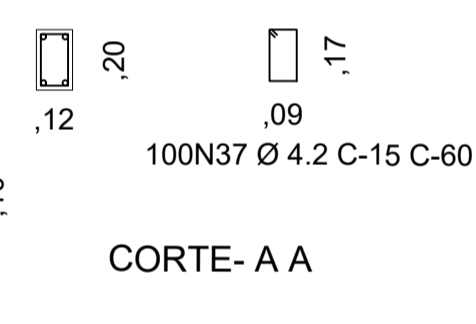
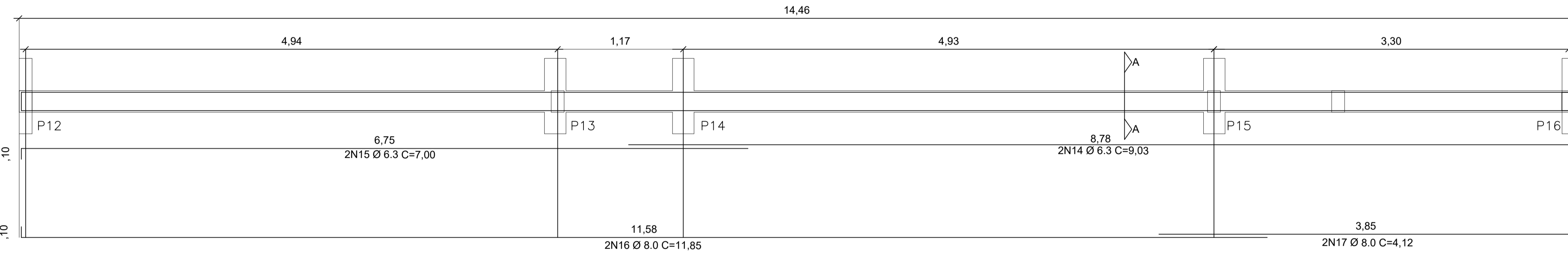
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CORTE- A A

### V3 (12 X 20)

1:25

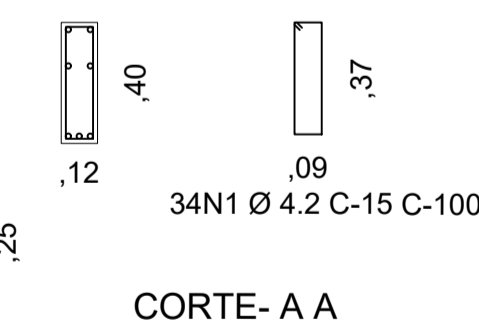
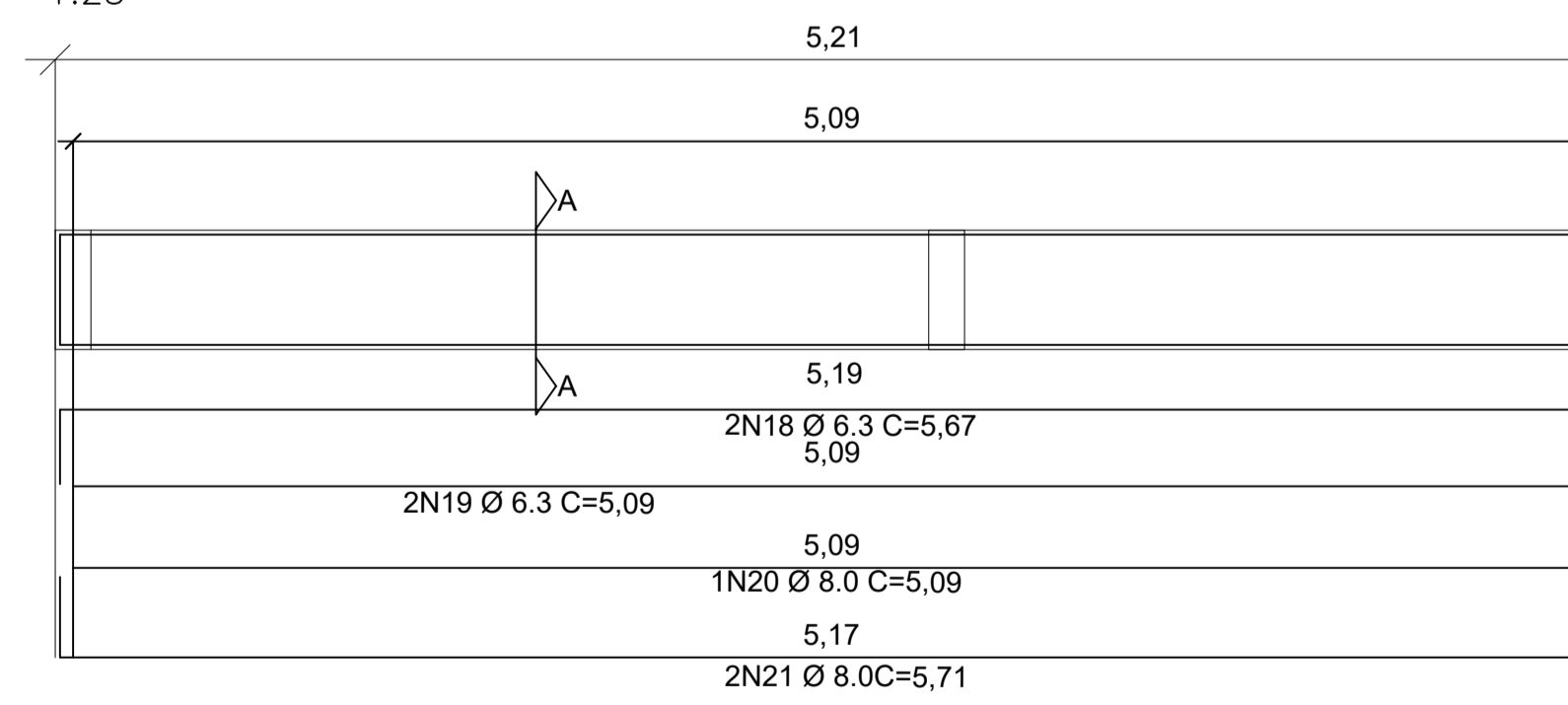


CORTE- A A

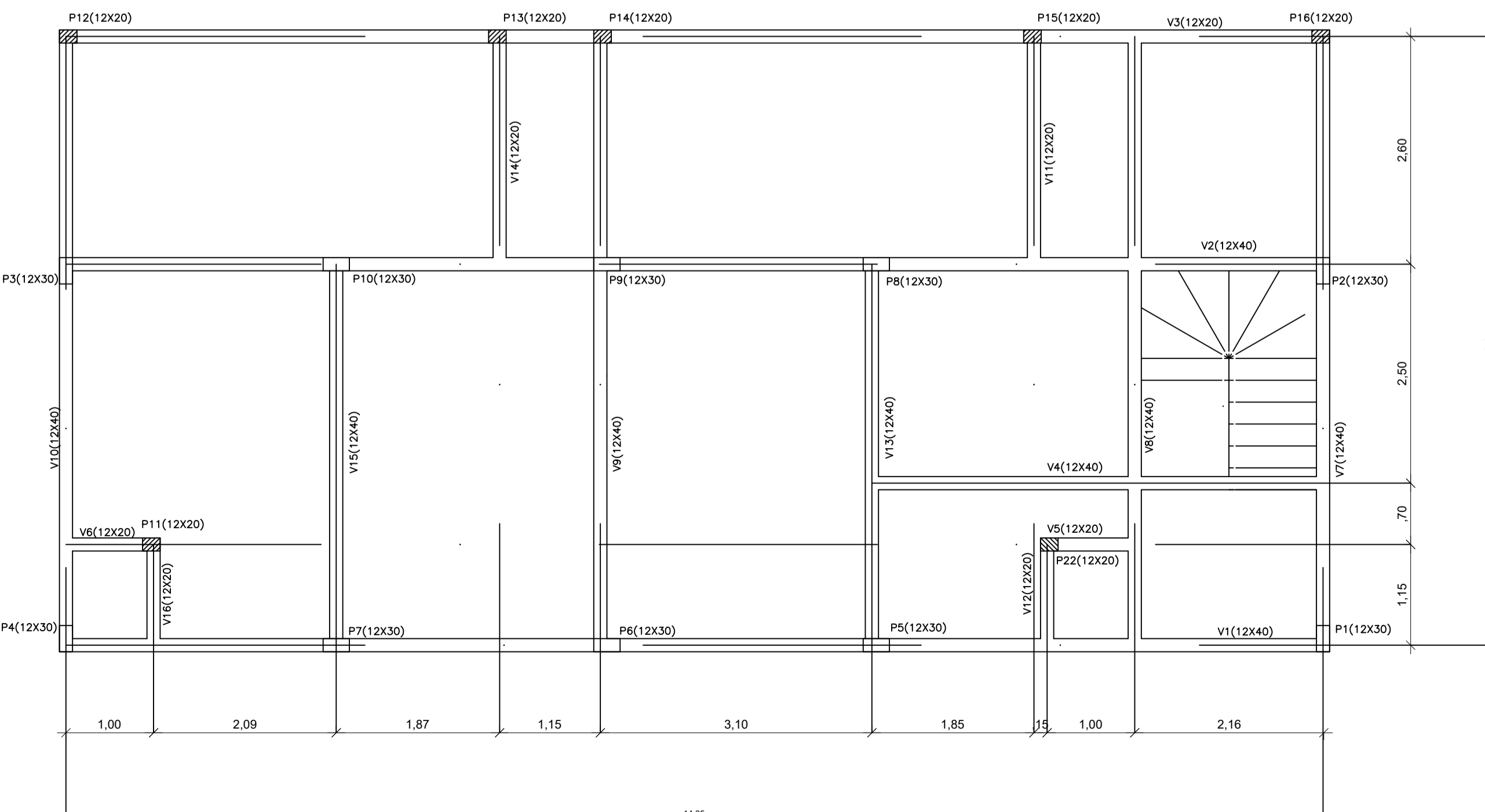
RELAÇÃO DO AÇO V1,V2,V3,V5,V6						
N	Ø	Q	COMPRIMENTO UNIT.	PESO Kg P/M	PESO TOTAL KG	
1	4.2	150	1,00	150,0	0,109	16,35
37	4.2	66	0,60	39,6	0,109	4,32
2	6.3	2	10,06	20,1	0,248	4,99
3	6.3	2	5,90	11,8	0,248	2,93
4	6.3	2	14,34	28,7	0,248	7,11
5	10.0	1	5,63	5,6	0,624	3,51
6	10.0	2	12,07	24,1	0,624	15,06
7	8.0	2	3,89	7,8	0,393	3,06
8	6.3	2	5,90	11,8	0,248	2,93
9	6.3	2	10,06	20,1	0,248	4,99
10	6.3	2	14,34	28,7	0,248	7,11
11	10.0	1	5,63	5,6	0,624	3,51
12	8.0	2	3,89	7,8	0,393	3,06
13	10.0	2	12,07	24,1	0,624	15,06
14	6.3	2	9,03	18,1	0,248	4,48
15	6.3	2	7,00	14,0	0,248	3,47
16	8.0	2	11,85	23,7	0,393	9,31
17	8.0	2	4,12	8,2	0,393	3,24
22	6.3	2	1,60	3,2	0,248	0,79
23	8.0	2	1,64	3,3	0,393	1,29
24	6.3	2	1,60	3,2	0,248	0,79
25	8.0	2	1,64	3,3	0,393	1,29
				PESO TOTAL DO AÇO CA-50	56,01	
				PESO TOTAL DO AÇO CA-60	20,67	

### V4 (12 X 40)

1:25



CORTE- A A



FORMAS DAS VIGAS DA LAJE DO 1º PAV.  
ESC.: 1/50

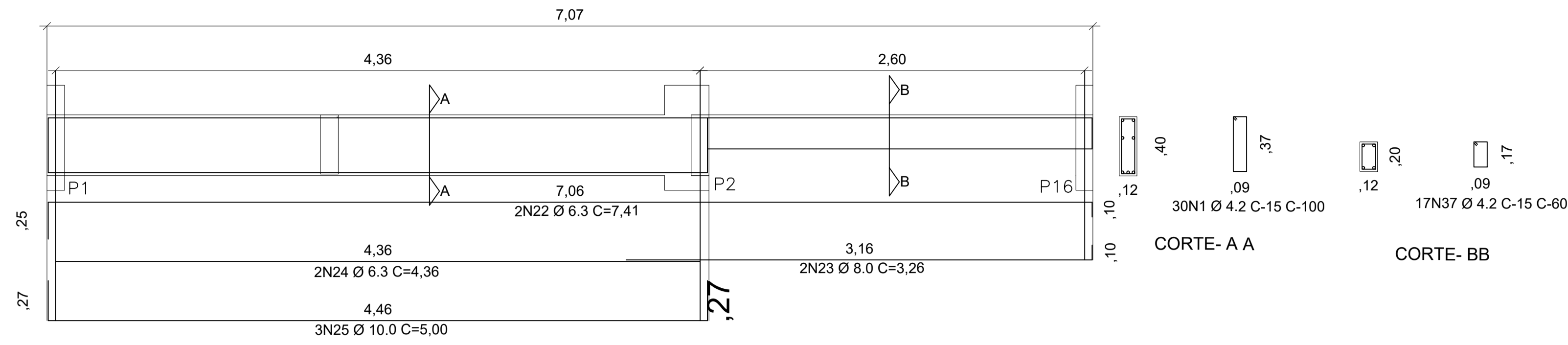
VOLUME CONCRETO M³				
V	L	H	C	TOTAL
1	0,12	0,40	14,20	0,68
2	0,12	0,40	14,20	0,68
3	0,12	0,20	14,20	0,34
4	0,12	0,40	5,00	0,24
5	0,12	0,20	1,00	0,02
6	0,12	0,20	1,00	0,02
TOTAL				1,98



PROJETO	REFORMA E AMPLIAÇÃO DO ESTÁDIO MUNICIPAL VALDERI CARVALHO		
PROPRIETÁRIO	PREFEITURA MUNICIPAL DE MAURITI		
ENDEREÇO / OBRA	RUA PADRE MARANHÃO SEDE DO MUNICÍPIO - MAURITI - CEARÁ		
ASSUNTO	ESTRUTURAL - TRIBUNA E VESTIÁRIOS	PRANCHA	
- ARMADURAS DAS VIGAS DA PRIMEIRA LAJE			05.11
PROJETO	DESENHO	ESCALA	DATA
MARX2PROJETOS	MARX2PROJETOS	INDICADA	JANEIRO - 2022

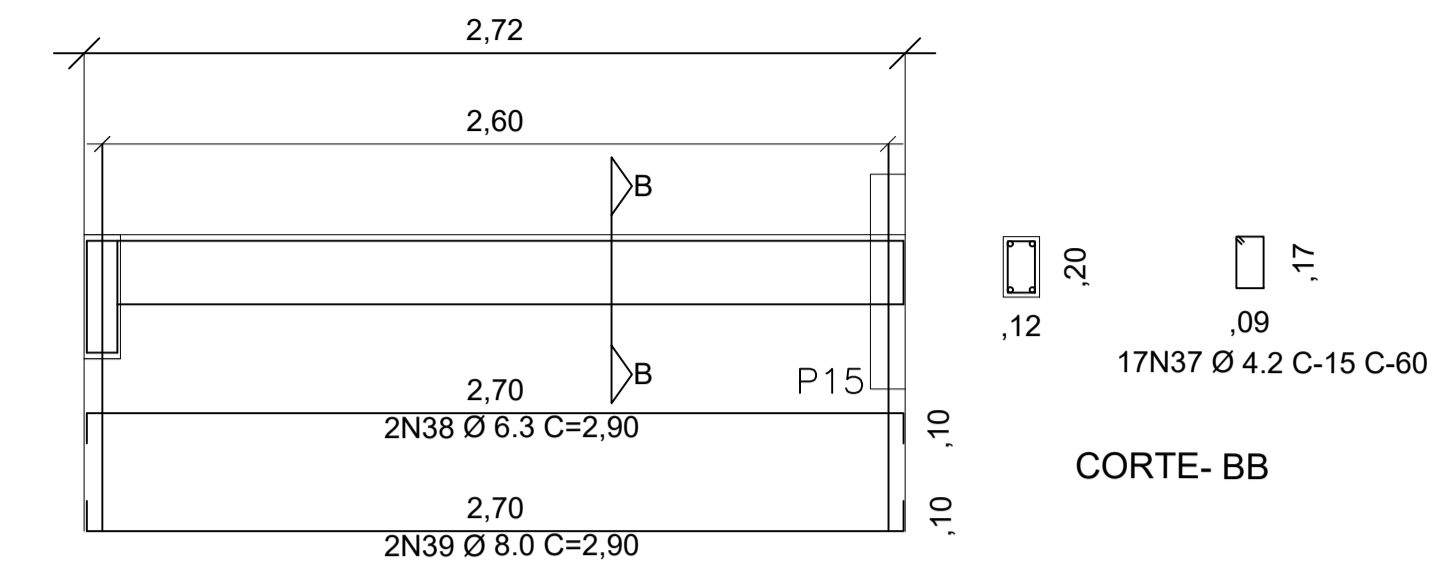
V7 (12 X 40 E 12X20)

1:25



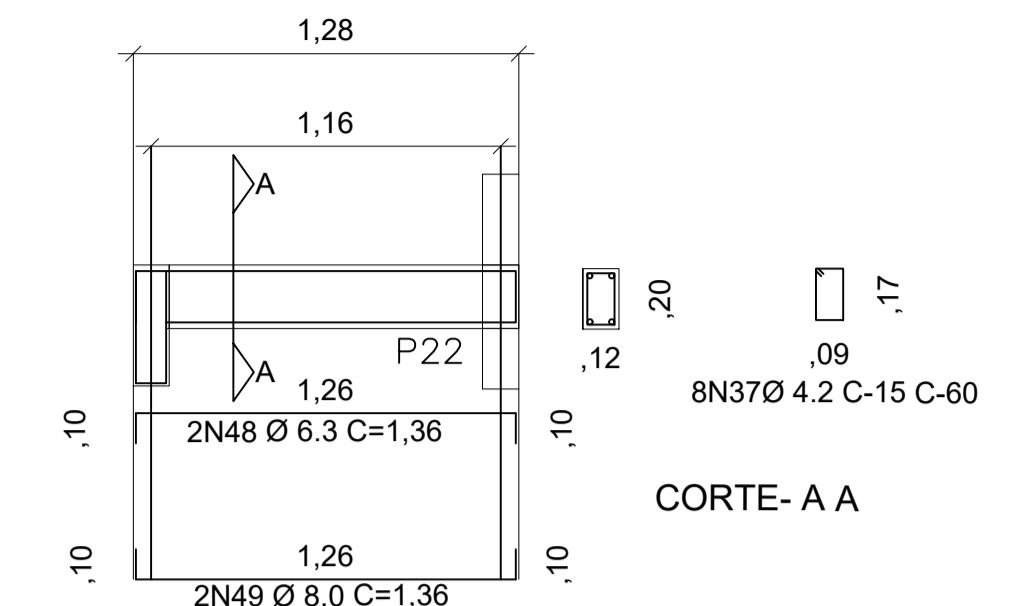
V11 (12X20)

1:25



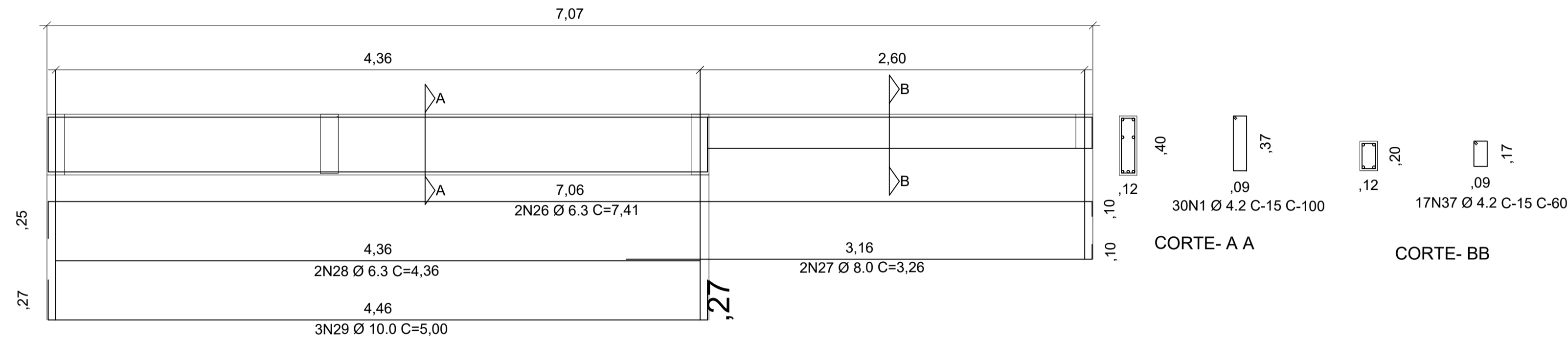
V12 (12 X 20)

1:25



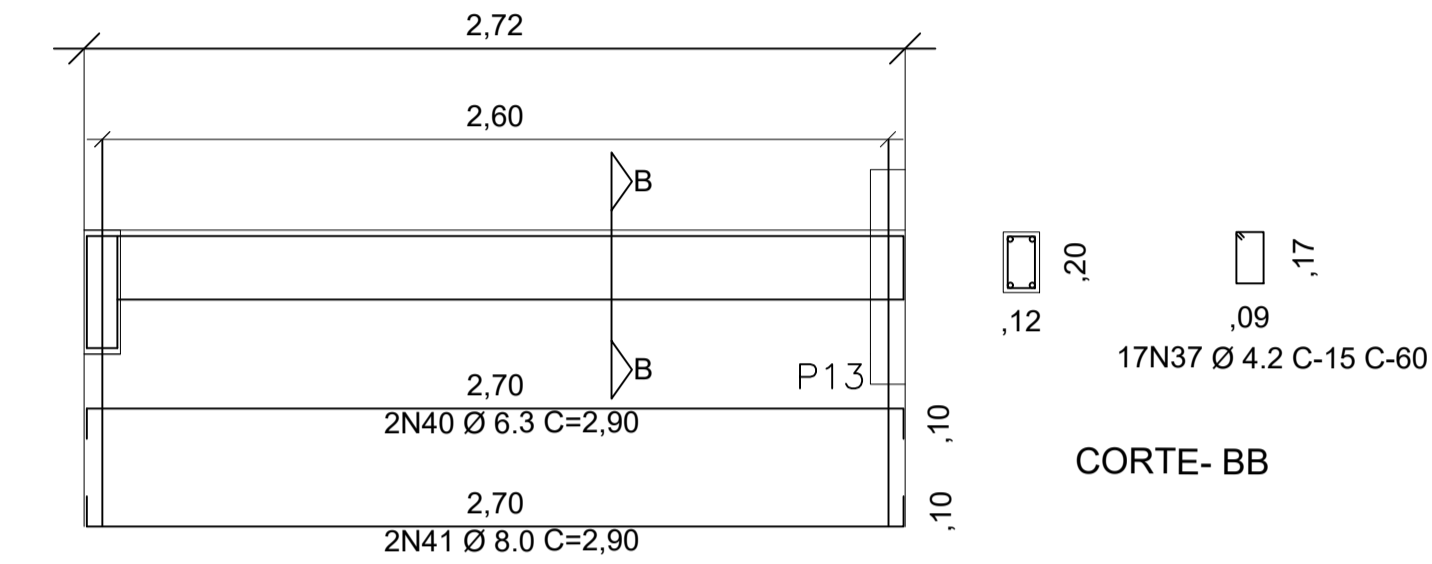
V8 (12 X 40 E 12X20)

1:25



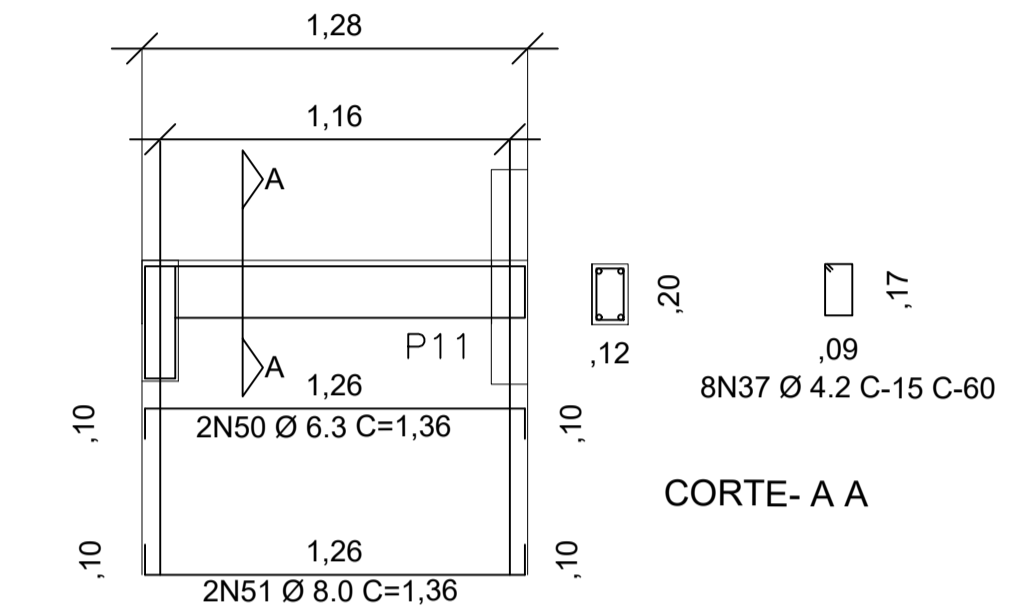
V14 (12X20)

1:25



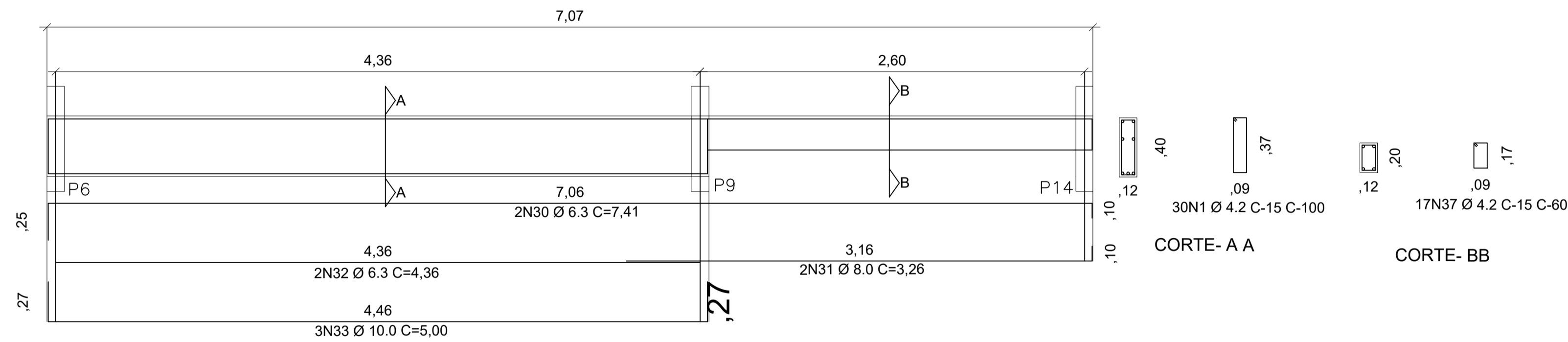
V16 (12 X 20)

1:25



V9 (12 X 40 E 12X20)

1:25



RELAÇÃO DO AÇO V4,V7,V8,V9,V10,V11,V14

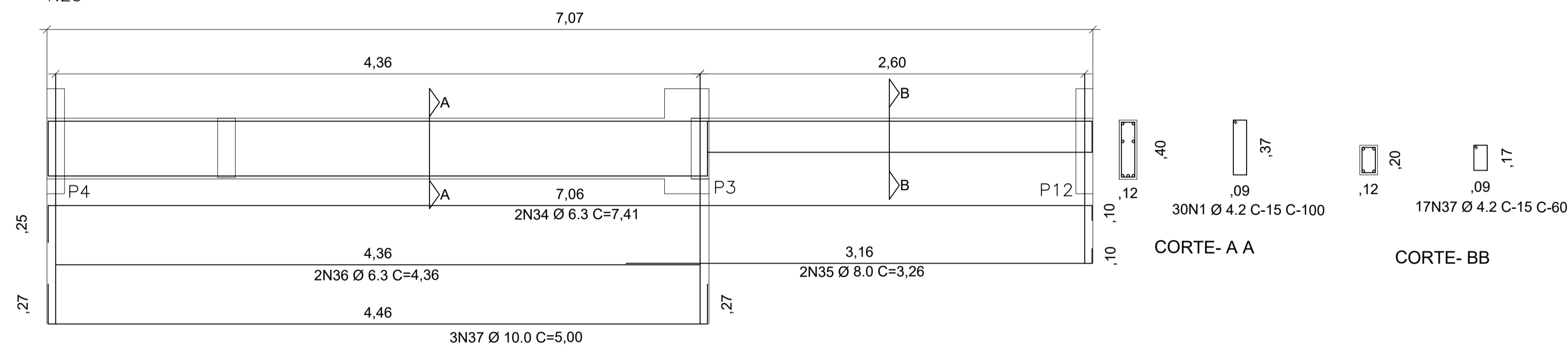
N	Ø	q	COMPRIMENTO UNIT.	TOTAL	PESO Kg P/M	PESO TOTAL KG
1	4.2	184	1,00	184,0	0,109	20,06
37	4.2	80	0,60	48,0	0,109	5,23
18	6.3	2	5,67	11,3	0,248	2,81
19	6.3	2	5,09	10,2	0,248	2,52
20	8.0	1	5,09	5,1	0,393	2,00
21	8.0	2	5,71	11,4	0,393	4,49
22	6.3	2	7,41	14,8	0,248	3,68
23	8.0	2	3,26	6,5	0,393	2,56
24	6.3	2	4,36	8,7	0,248	2,16
25	10.0	3	5,00	15,0	0,624	9,36
26	6.3	2	7,41	14,8	0,248	3,68
27	8.0	1	3,26	3,3	0,393	2,56
28	6.3	2	4,36	8,7	0,248	2,16
29	10.0	3	5,00	15,0	0,624	9,36
30	6.3	2	7,41	14,8	0,248	3,68
31	8.0	2	3,26	6,5	0,393	2,56
32	6.3	2	4,36	8,7	0,248	2,16
33	10.0	3	5,00	15,0	0,624	9,36
34	6.3	2	7,41	14,8	0,248	3,68
35	8.0	2	3,26	6,5	0,393	2,56
36	6.3	2	4,36	8,7	0,248	2,16
38	6.3	2	2,90	5,8	0,248	1,44
39	8.0	2	2,90	5,8	0,393	2,28
40	6.3	2	2,90	5,8	0,248	1,44
41	8.0	2	2,90	5,8	0,393	2,28
42	6.3	2	4,96	9,9	0,248	2,46
43	6.3	2	4,36	8,7	0,248	2,16
44	10	3	5,00	15,0	0,624	9,36
45	6.3	2	4,96	9,9	0,248	2,46
46	6.3	2	4,36	8,7	0,248	2,16
47	10.0	3	5,00	15,0	0,624	9,36
48	6.3	2	1,36	2,7	0,248	0,67
49	8.0	3	1,36	4,1	0,393	1,60
50	6.3	2	1,36	2,7	0,248	0,67
51	8.0	1	1,36	1,4	0,393	0,53
PESO TOTAL DO AÇO CA-50						137,68
PESO TOTAL DO AÇO CA-60						25,29

VOLUME CONCRETO M³

V	L	H	C	TOTAL
7	0,12	0,40	6,80	0,33
8	0,12	0,40	6,80	0,33
9	0,12	0,40	6,80	0,33
10	0,12	0,40	6,80	0,33
11	0,12	0,20	2,45	0,06
12	0,12	0,20	1,00	0,02
13	0,12	0,40	4,20	0,20
14	0,12	0,20	2,45	0,06
15	0,12	0,40	4,20	0,20
16	0,12	0,20	1,00	0,02
TOTAL				1,87

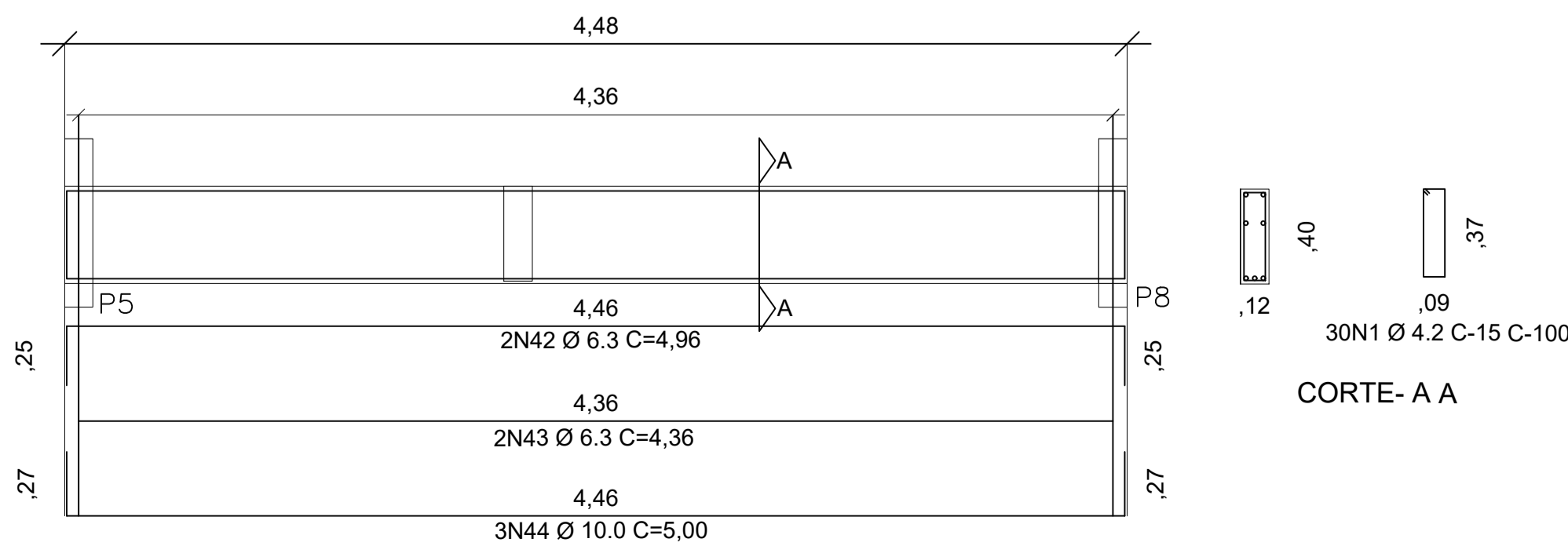
V10 (12 X 40 E 12X20)

1:25



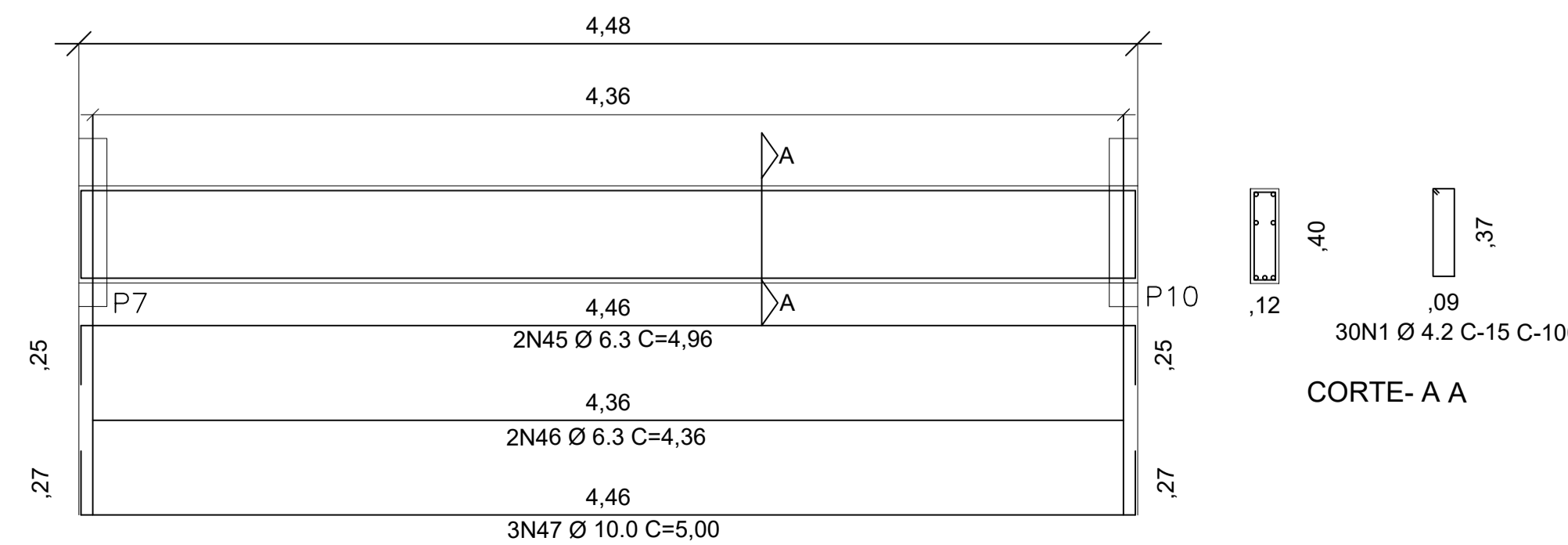
V13 (12 X 40 )

1:25



V15 (12 X 40 )

1:25





**PREFEITURA DE MAURITI**  
*Construindo das pessoas*



PROJETO REFORMA E AMPLIAÇÃO DO ESTÁDIO MUNICIPAL VALDERI CARVALHO

PROPRIETÁRIO PREFEITURA MUNICIPAL DE MAURITI

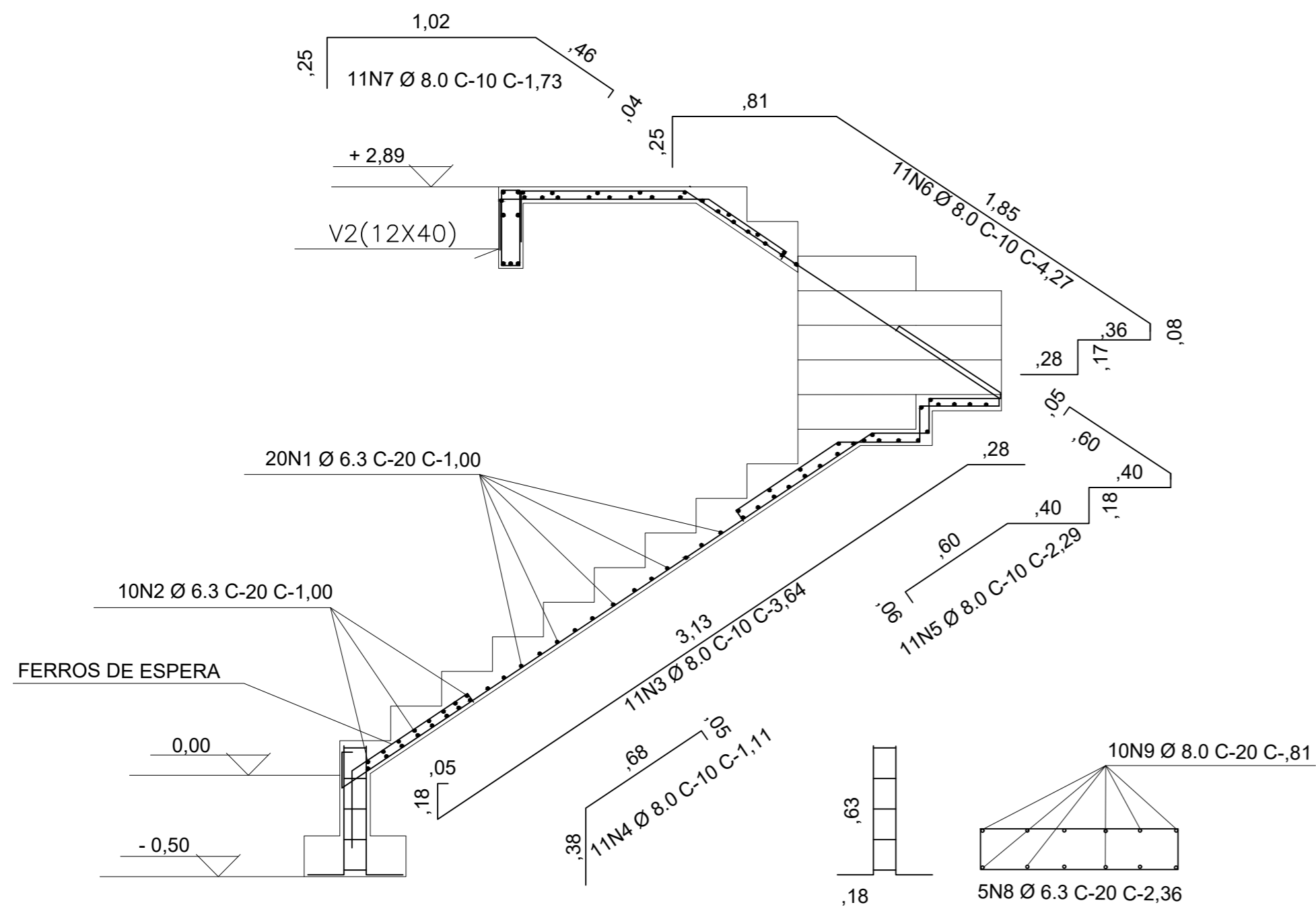
ENDEREÇO / OBRA RUA PADRE MARANHÃO SEDE DO MUNICÍPIO - MAURITI - CEARÁ

ASSUNTO ESTRUTURAL - TRIBUNA E VESTIÁRIOS PRANCHA

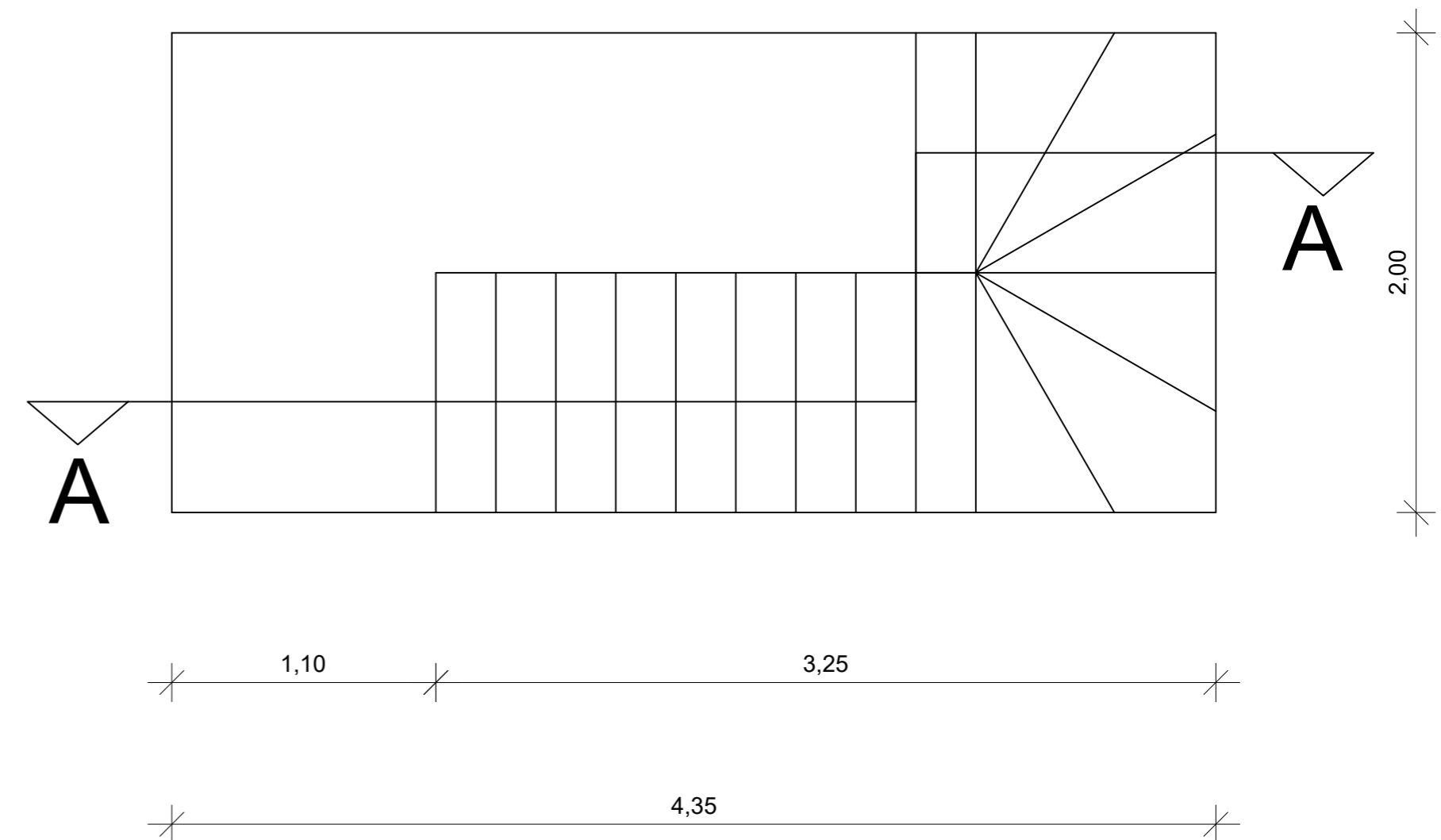
- ARMADURAS DAS VIGAS DA PRIMEIRA LAJE

06.11

PROJETO MARX2PROJETOS	DESENHO MARX2PROJETOS	ESCALA INDICADA	DATA JANEIRO - 2022
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ARMADURA DA ESCADA



PLANTA BAIXA  
ESC.:- 1/25

RELAÇÃO DO AÇO DA ESCADA						
N	Ø	Q	COMPRIMENTO		PESO Kg P/M	PESO TOTAL KG
			UNIT.	TOTAL		
1	6.3	20	1,00	20,0	0,248	4,96
2	6.3	10	1,00	10,0	0,248	2,48
3	8.0	11	3,64	40,0	0,393	15,74
4	8.0	11	1,11	12,2	0,393	4,80
5	8.0	11	2,29	25,2	0,393	9,90
6	8.0	11	4,27	47,0	0,393	18,46
7	8.0	11	1,73	19,0	0,393	7,48
8	6.3	5	2,36	11,8	0,248	2,93
9	8.0	10	0,81	8,1	0,393	3,18
PESO TOTAL DO AÇO CA-50						69,92

VOLUME CONCRETO M³				
ESC.	L	H	C	TOTAL
1	1,00	0,15	4,25	0,64
TOTAL				0,64



PROJETO REFORMA E AMPLIAÇÃO DO ESTÁDIO MUNICIPAL VALDERI CARVALHO

PROPRIETÁRIO  
PREFEITURA MUNICIPAL DE MAURITI

ENDEREÇO / OBRA  
RUA PADRE MARANHÃO SEDE DO MUNICÍPIO - MAURITI - CEARÁ

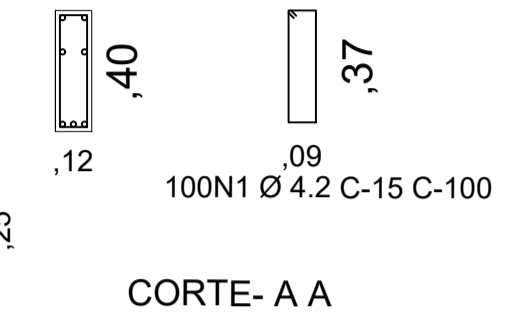
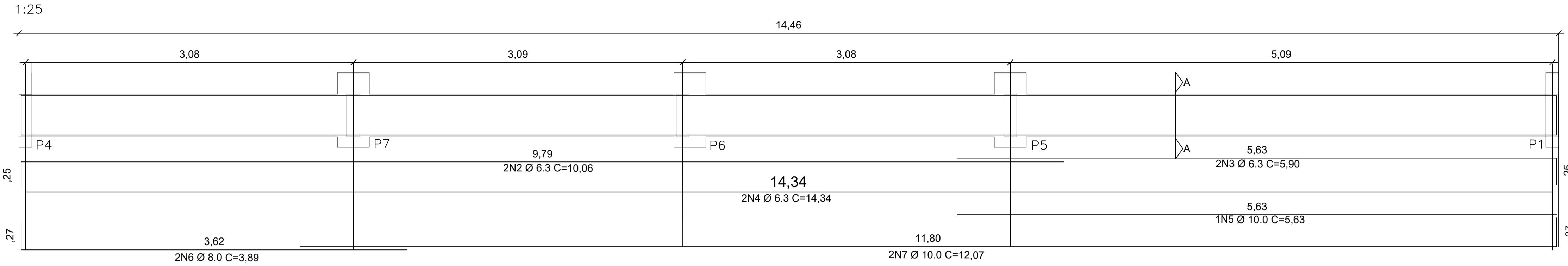
ASSUNTO ESTRUTURAL - TRIBUNA E VESTIÁRIOS PRANCHA

- ESCADA DA PRIMEIRA LAJE

07.11

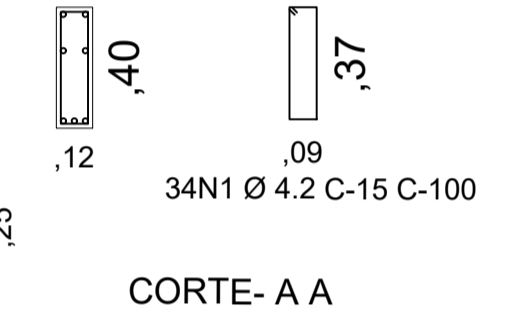
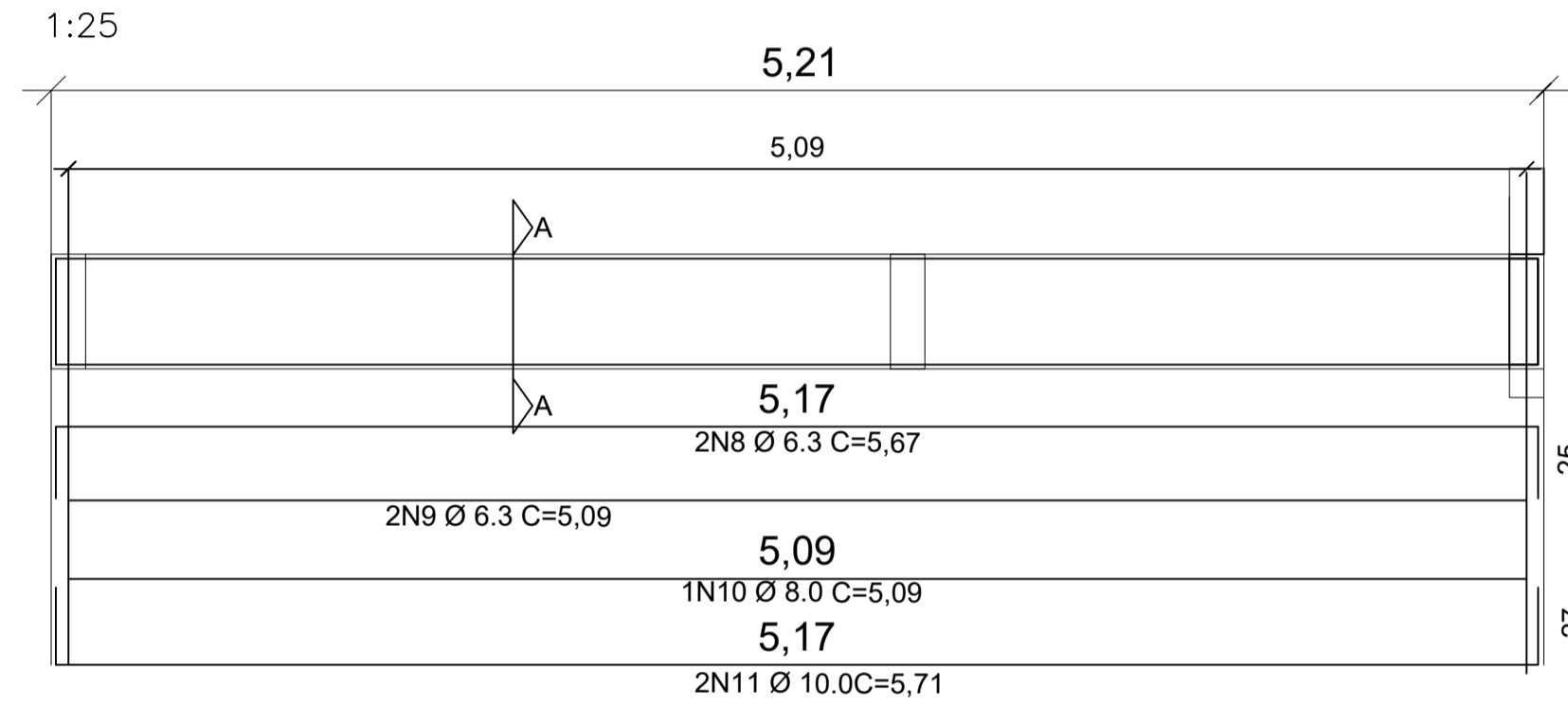
PROJETO MARX2PROJETOS	DESENHO MARX2PROJETOS	ESCALA INDICADA	DATA JANEIRO - 2022
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V1 (12 X 40)



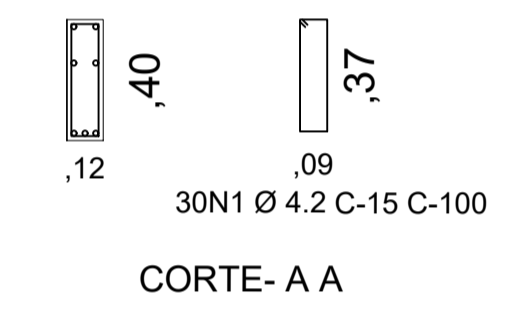
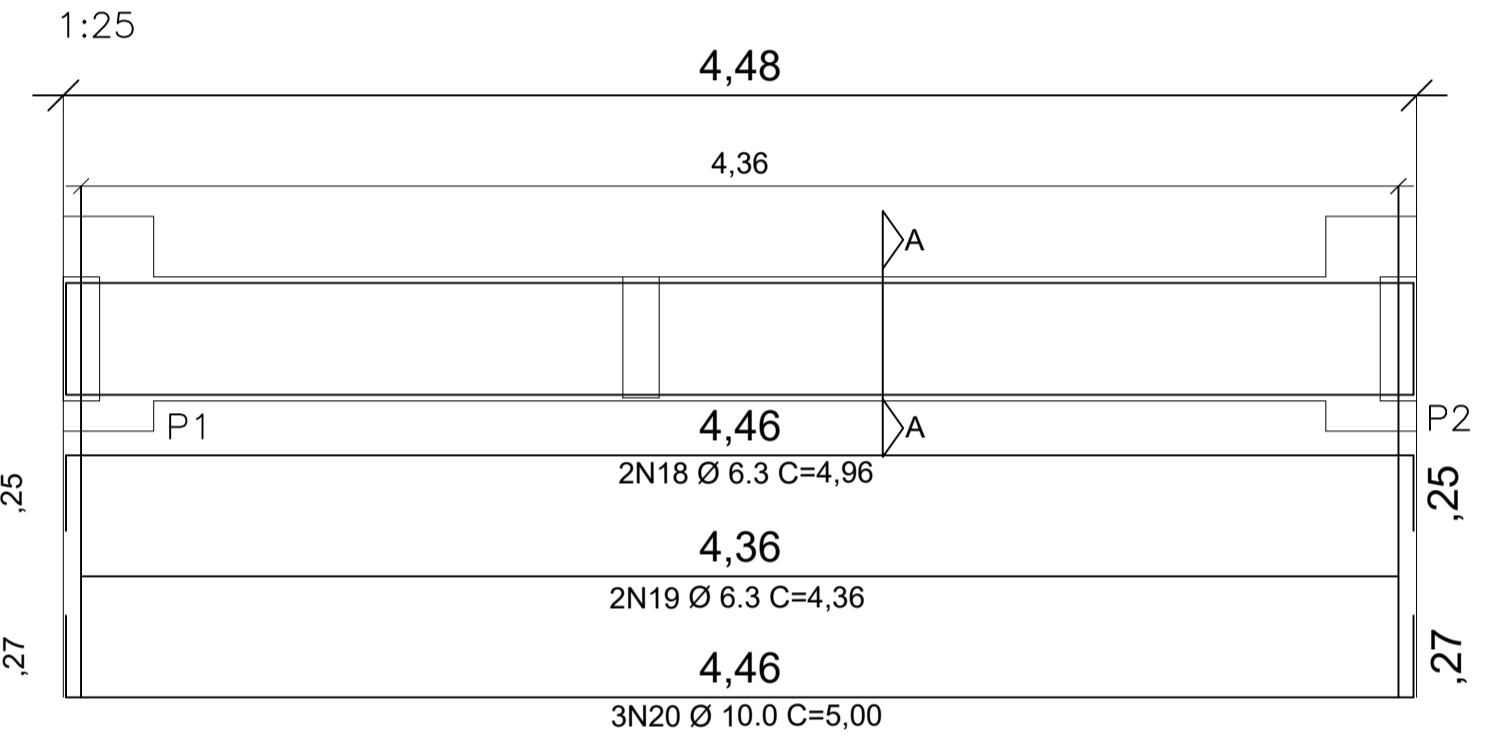
CORTE- A A

V2 (12 X 40)



CORTE- A A

V4 (12 X 40)

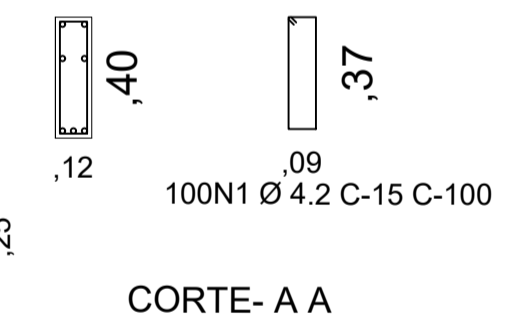
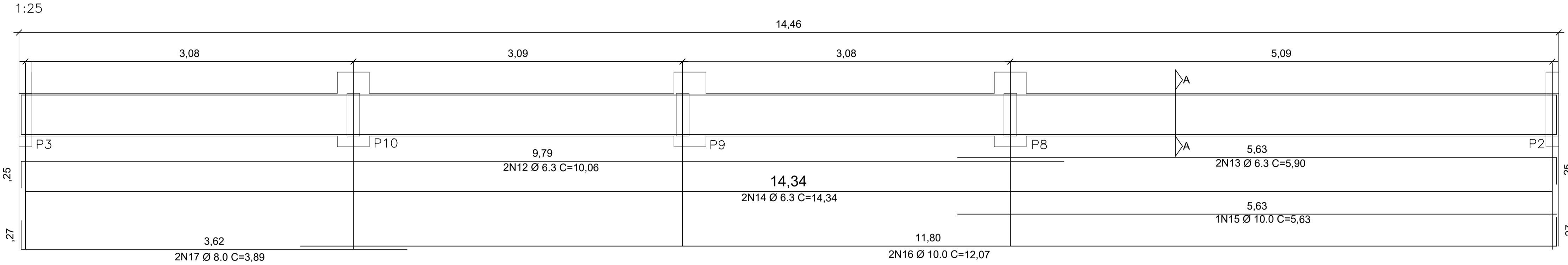


CORTE- A A

RELAÇÃO DO AÇO VS1,VS2,VS3,VS4

N	Ø	Q	COMPRIMENTO UNIT.	TOTAL	PESO Kg PM	PESO TOTAL KG
1	4.2	214	1,00	214,0	0,109	23,33
2	6.3	2	10,06	20,1	0,248	4,99
3	6.3	2	5,90	11,8	0,248	2,93
4	6.3	2	14,34	28,7	0,248	7,11
5	10.0	1	5,63	5,6	0,624	3,51
6	8.0	2	3,89	7,8	0,393	3,06
7	10.0	2	12,07	24,1	0,624	15,06
8	6.3	2	5,67	11,3	0,248	2,81
9	6.3	2	5,09	10,2	0,248	2,52
10	8.0	1	5,09	5,1	0,393	2,00
11	10.0	2	5,71	11,4	0,624	7,13
12	6.3	2	3,26	6,5	0,248	1,62
13	6.3	2	5,90	11,8	0,248	2,93
14	6.3	2	14,34	28,7	0,248	7,11
15	10.0	1	5,63	5,6	0,624	3,51
16	10.0	2	12,07	24,1	0,624	15,06
17	8.0	2	3,89	7,8	0,393	3,06
18	6.3	2	4,96	9,9	0,248	2,46
19	6.3	2	4,36	8,7	0,248	2,16
20	10.0	3	5,00	15,0	0,624	9,36
					PESO TOTAL DO AÇO CA-50	96,40
					PESO TOTAL DO AÇO CA-60	23,33

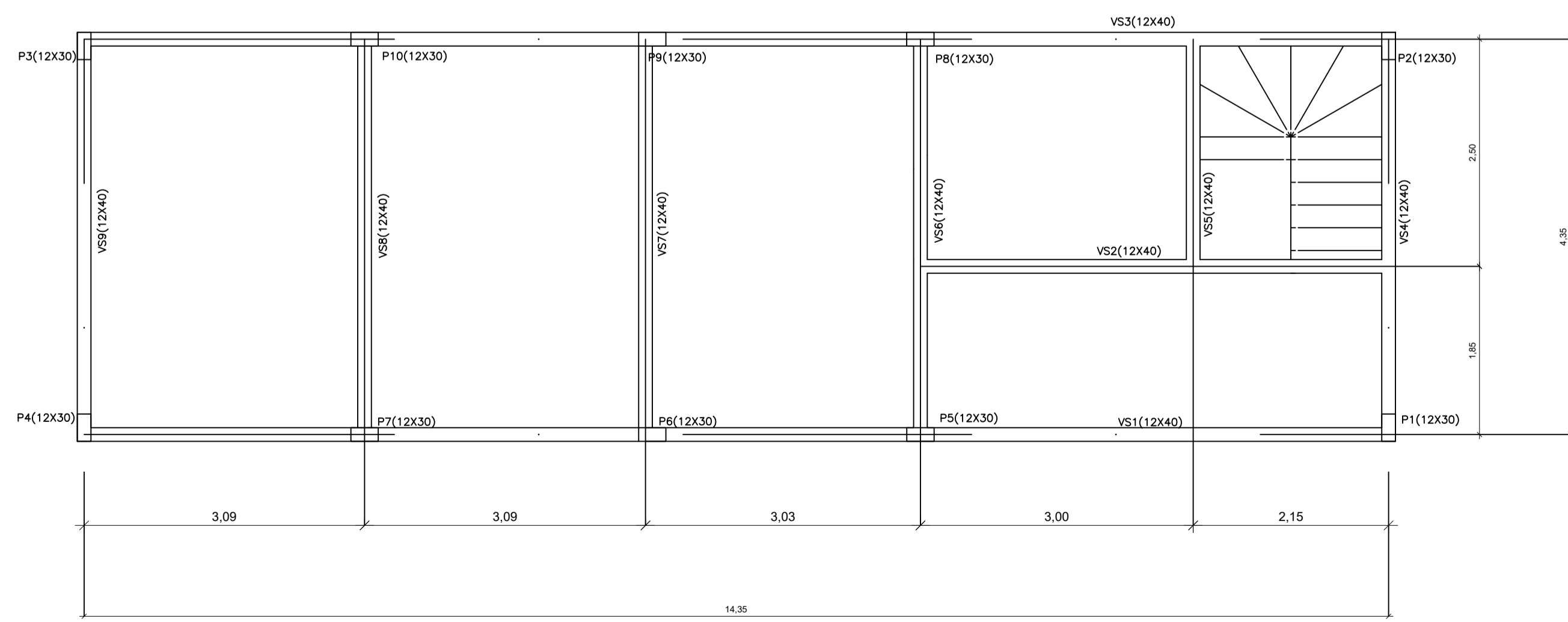
V3 (12 X 40)



CORTE- A A

VOLUME CONCRETO M³

V	L	H	C	TOTAL
1	0,12	0,40	14,20	0,68
2	0,12	0,40	5,00	0,24
3	0,12	0,40	14,20	0,68
4	0,12	0,40	4,20	0,20
TOTAL				1,80



FORMAS DAS VIGAS DA LAJE DA COBERTA  
ESC.: -----1/50

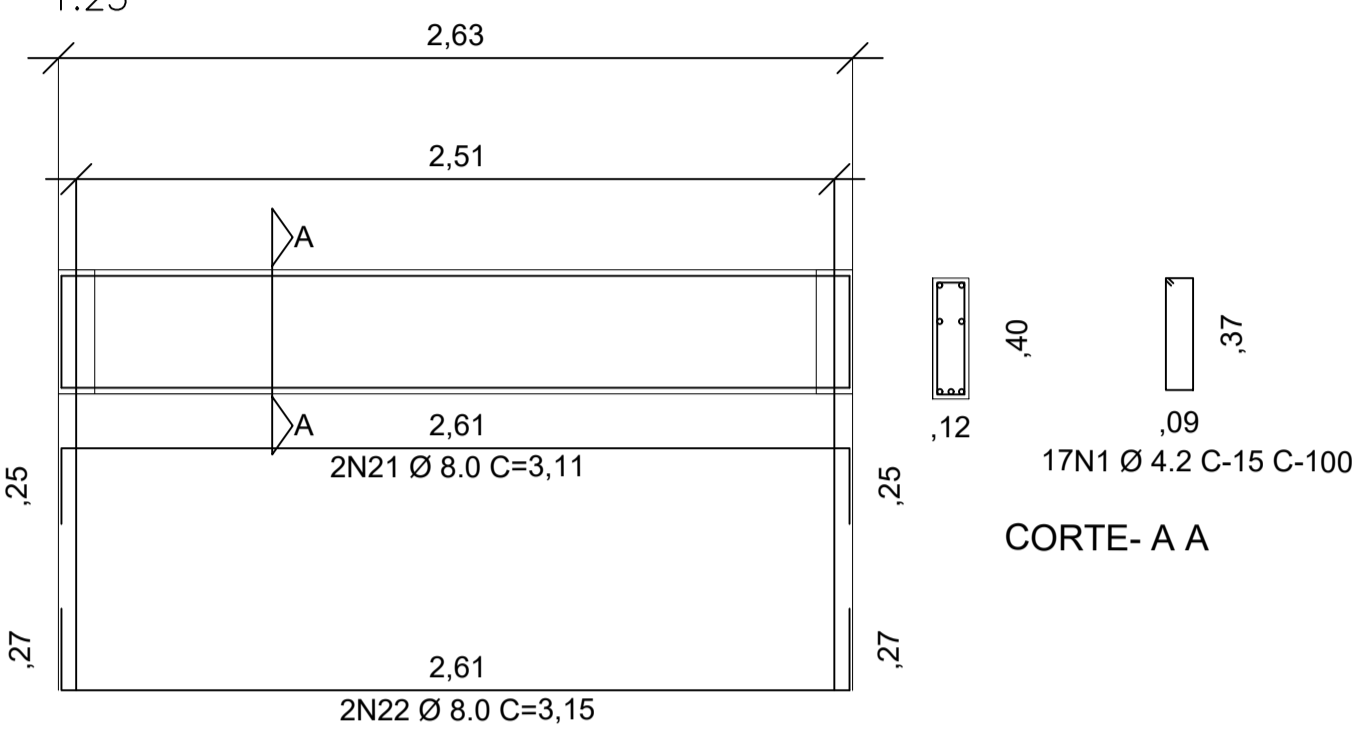
**PREFEITURA DE MAURITI**  
Engenharia das pessoas

**MARX2**  
MARX2 CONSTRUÇÕES EIRELI-ME  
CNPJ: 07.143.584/0001-61  
RUA EDUARDO ROFFILO DA COSTA, Nº 238  
DISTRITO DO ROSÁRIO - MANGUEIRAS  
TELEFONE: (88) 3 8821-4237  
E-MAIL: marx2projeto@gmail.com

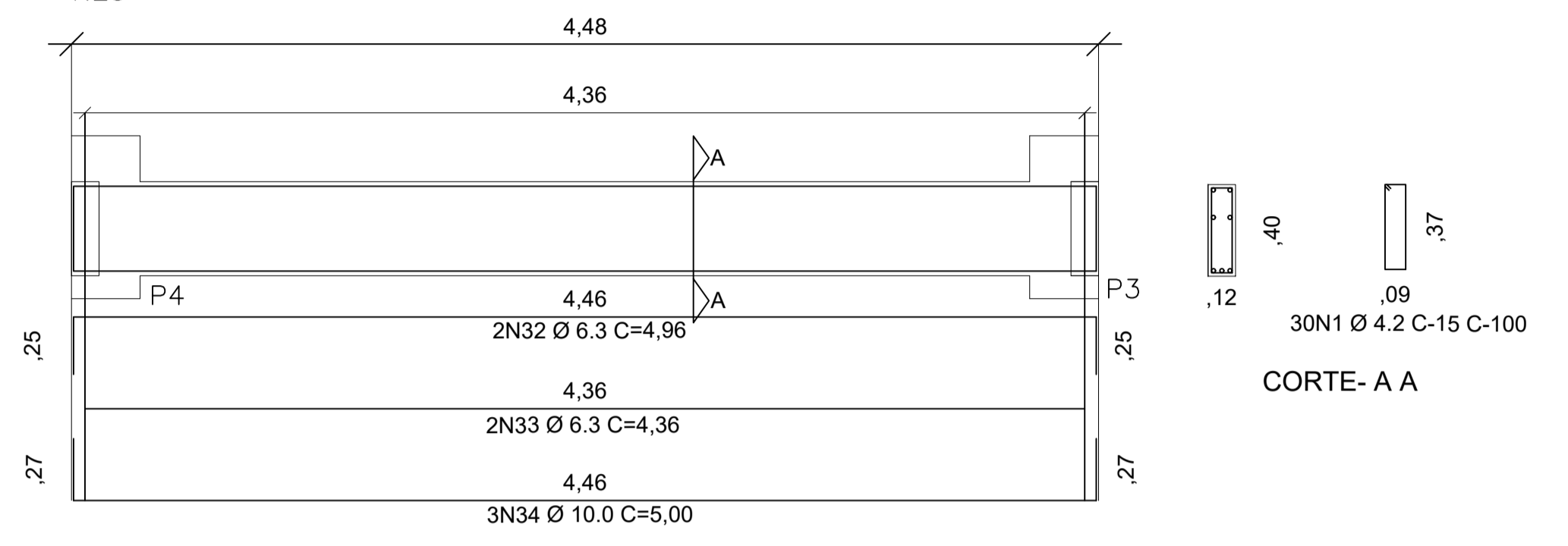
PROJETO	REFORMA E AMPLIAÇÃO DO ESTÁDIO MUNICIPAL VALDERI CARVALHO		
PROPRIETÁRIO	PREFEITURA MUNICIPAL DE MAURITI		
ENDEREÇO / OBRA	RUA PADRE MARANHÃO SEDE DO MUNICÍPIO - MAURITI - CEARÁ		
ASSUNTO	ESTRUTURAL - TRIBUNA E VESTIÁRIOS	PRANCHA	
	- ARMADURAS DAS VIGAS DA LAJE DA COBERTA		08.11
PROJETO	DESENHO	ESCALA	DATA
MARX2PROJETOS	MARX2PROJETOS	INDICADA	JANEIRO - 2022



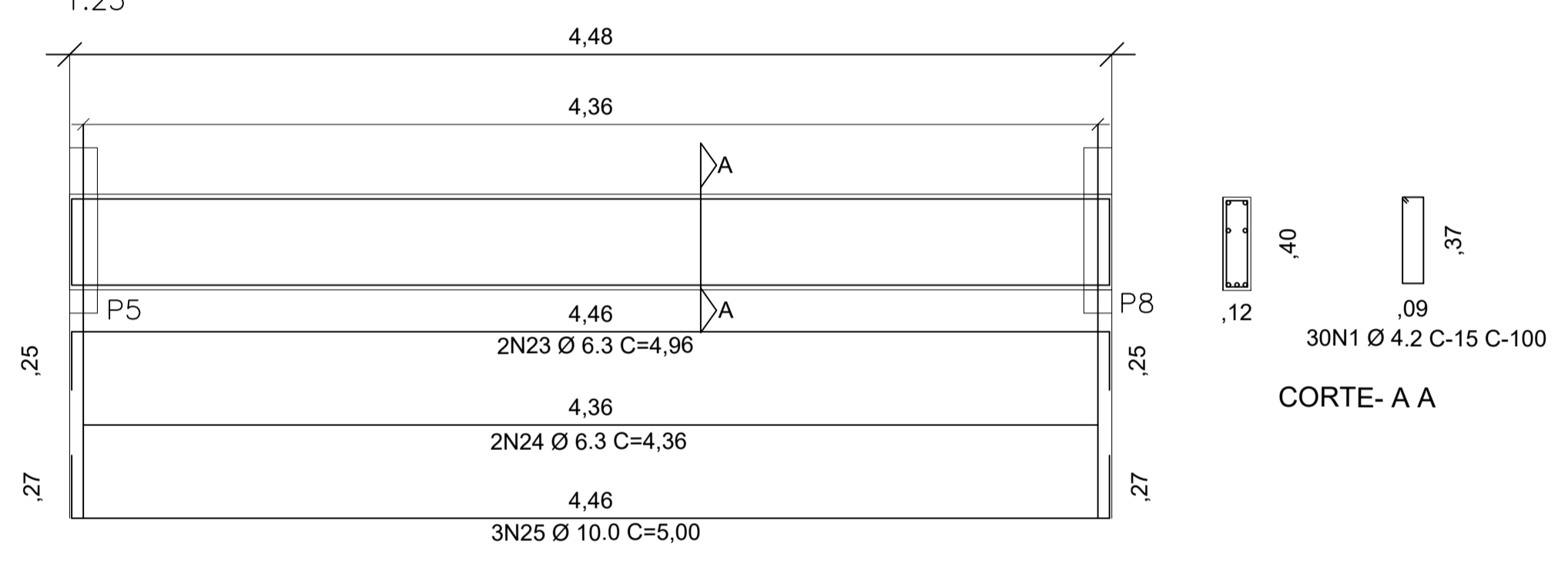
V5 (12 X 40)



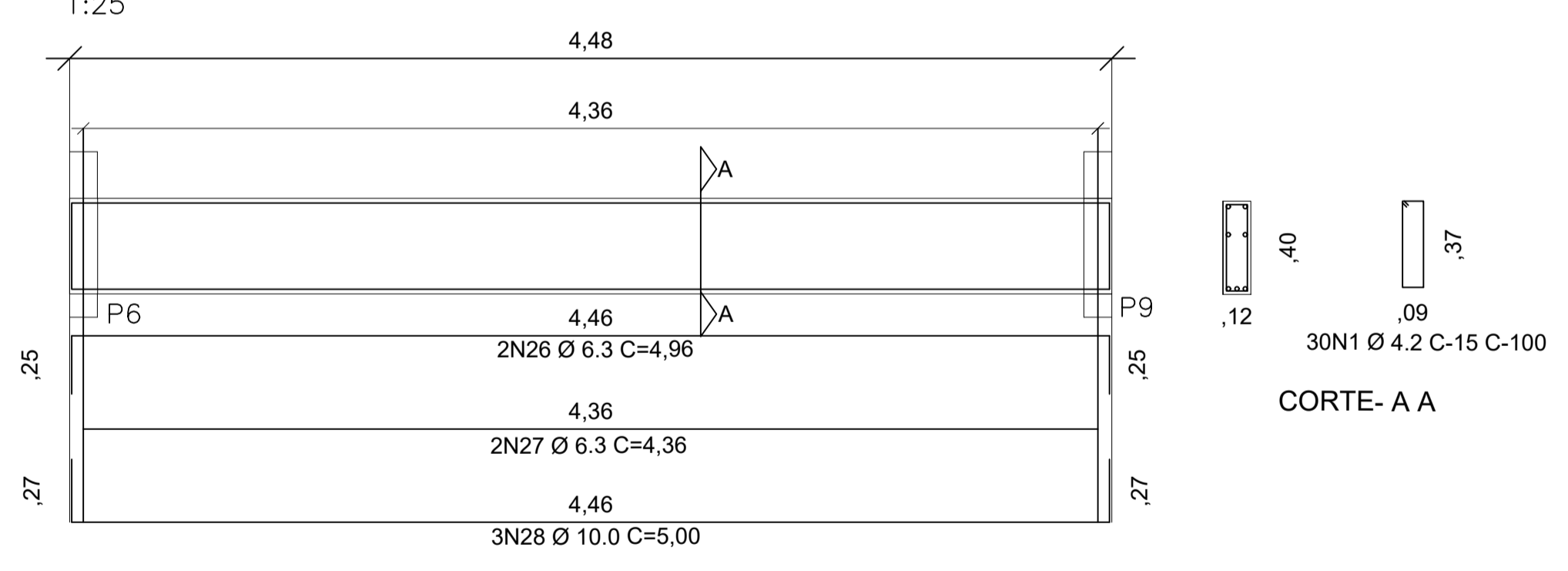
V9 (12 X 40)



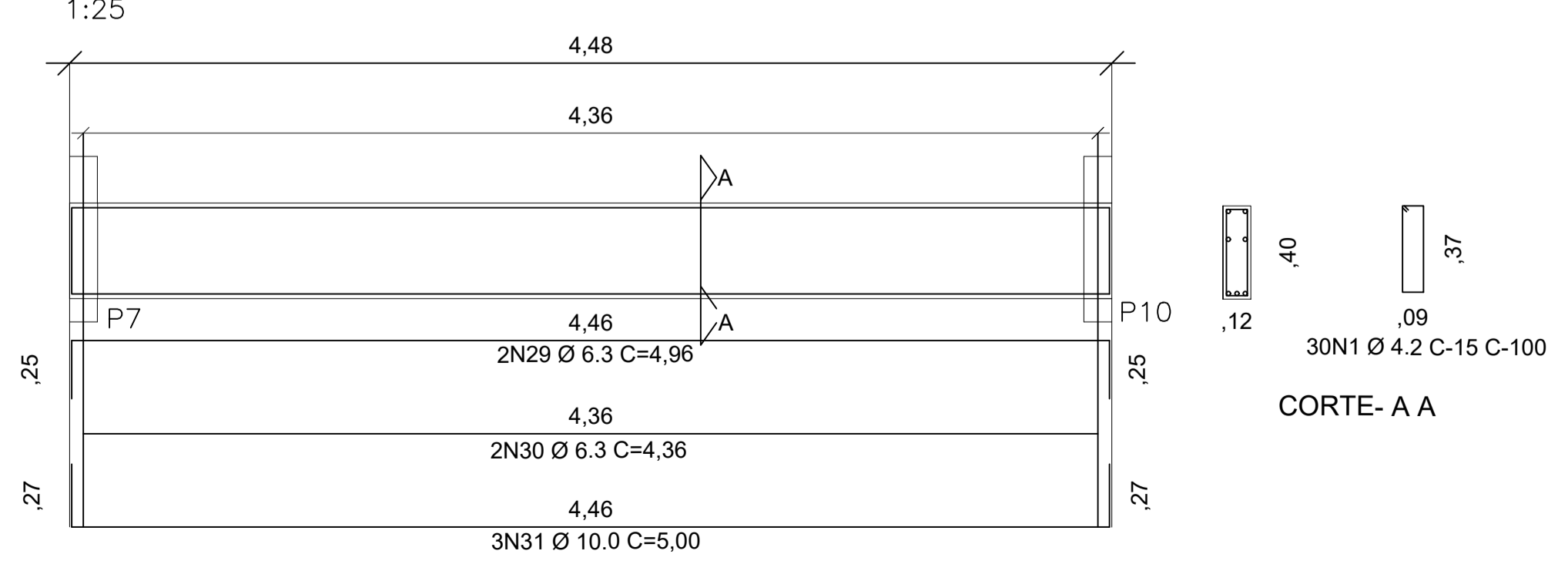
V6 (12 X 40)



V7 (12 X 40)



V8 (12 X 40)



RELAÇÃO DO AÇO V55,V56,V57,V58,V59

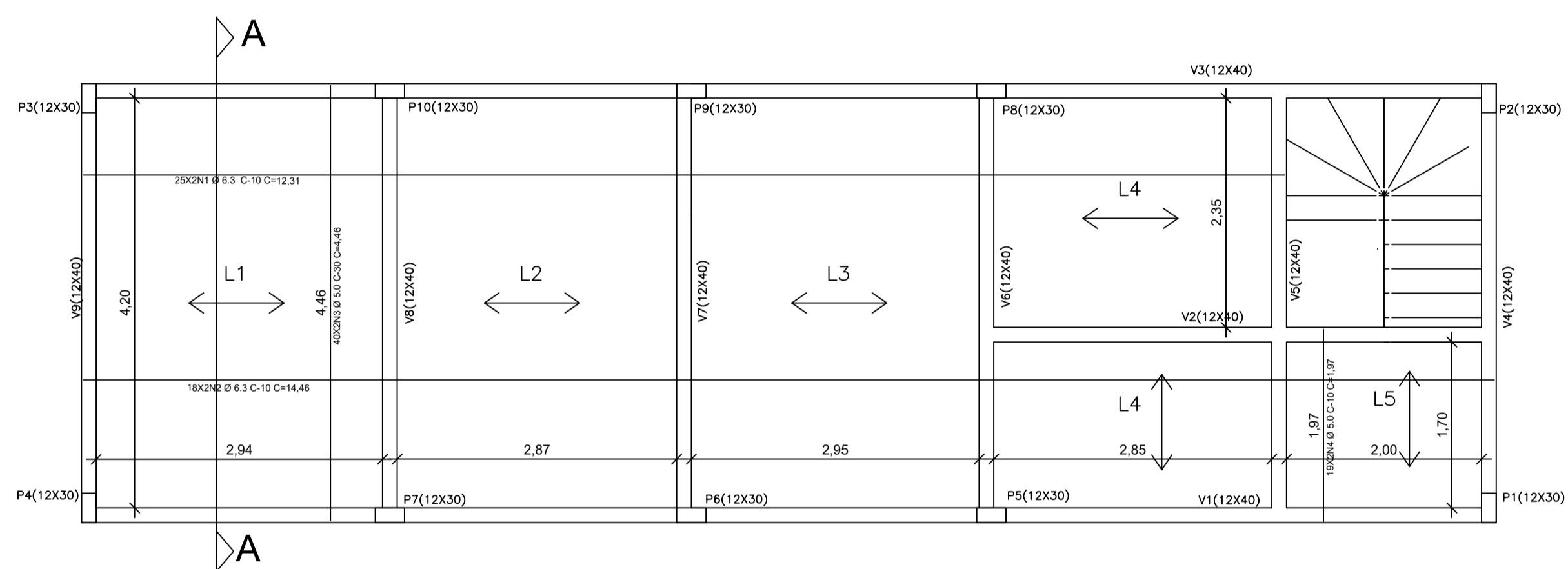
N	Ø	Q	COMPRIMENTO UNIT.	TOTAL	PESO Kg PM	PESO TOTAL KG
1	4.2	87	1,00	87,0	0,109	9,48
21	8.0	2	3,11	6,2	0,393	2,44
22	8.0	2	3,15	6,3	0,393	2,48
23	6.3	2	4,96	9,9	0,248	2,46
24	6.3	2	4,36	8,7	0,248	2,16
25	10.0	3	5,00	15,0	0,624	9,36
26	6.3	2	4,96	9,9	0,248	2,46
27	6.3	2	4,36	8,7	0,248	2,16
28	10.0	3	5,00	15,0	0,624	9,36
29	6.3	2	4,96	9,9	0,248	2,46
30	6.3	2	4,36	8,7	0,248	2,16
31	10.0	3	5,00	15,0	0,624	9,36
32	6.3	2	4,96	9,9	0,248	2,46
33	6.3	2	4,36	8,7	0,248	2,16
34	10.0	3	5,00	15,0	0,624	9,36
					PESO TOTAL DO AÇO CA-50	60,85
					PESO TOTAL DO AÇO CA-60	9,48

VOLUME CONCRETO M³

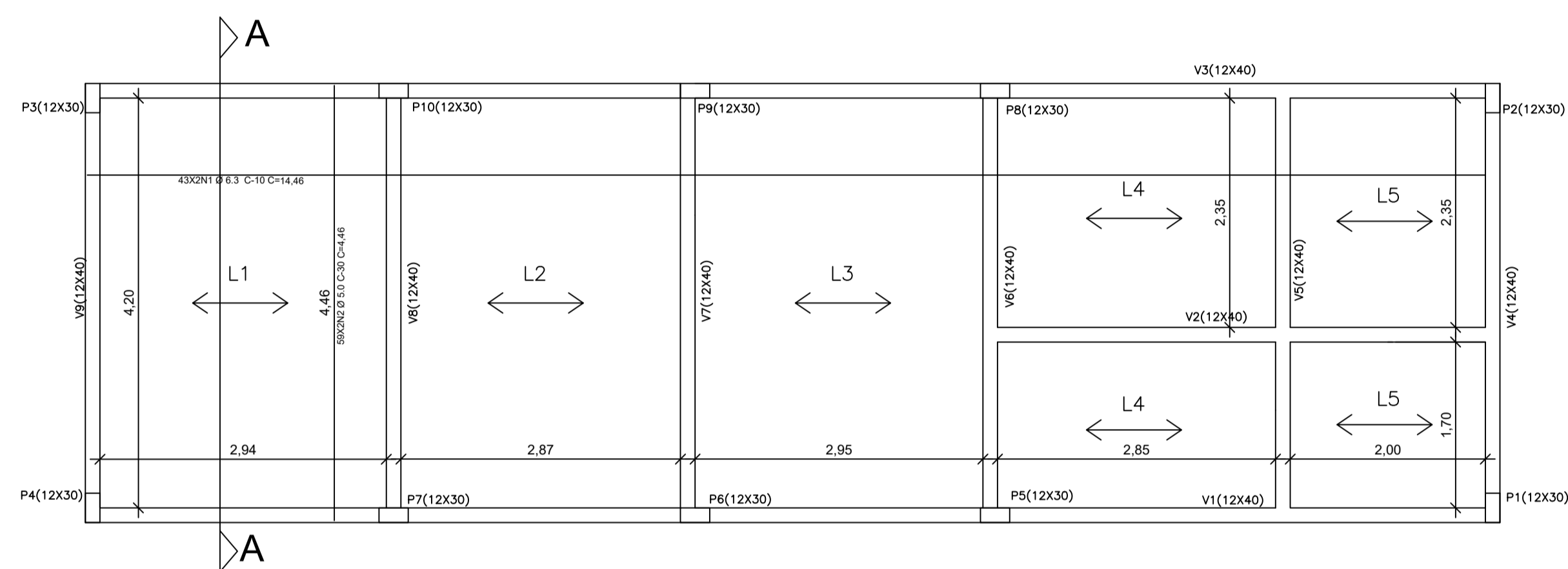
V	L	H	C	TOTAL	
5	0,12	0,40	2,35	0,11	
6	0,12	0,40	4,20	0,20	
7	0,12	0,40	4,20	0,20	
8	0,12	0,40	4,20	0,20	
9	0,12	0,40	4,20	0,20	
				TOTAL	0,92



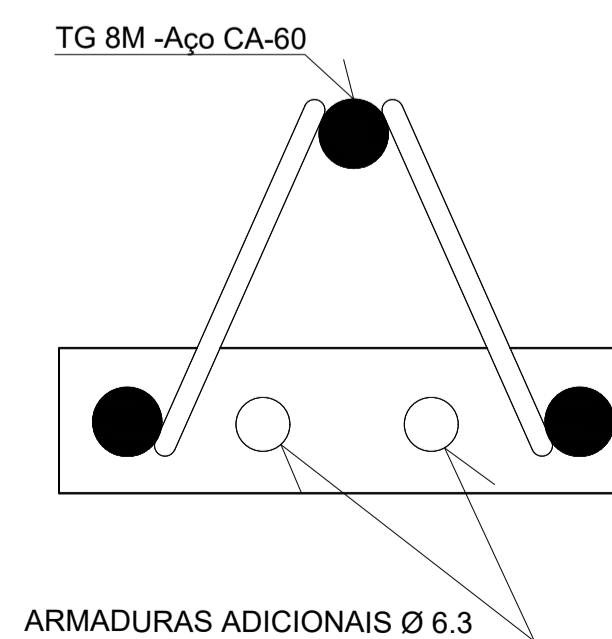
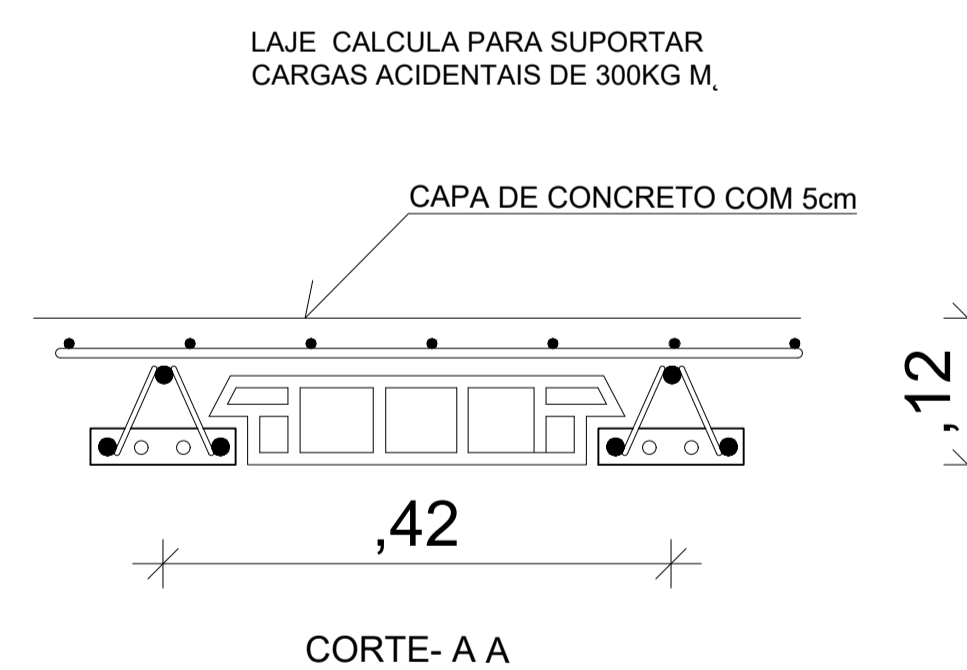
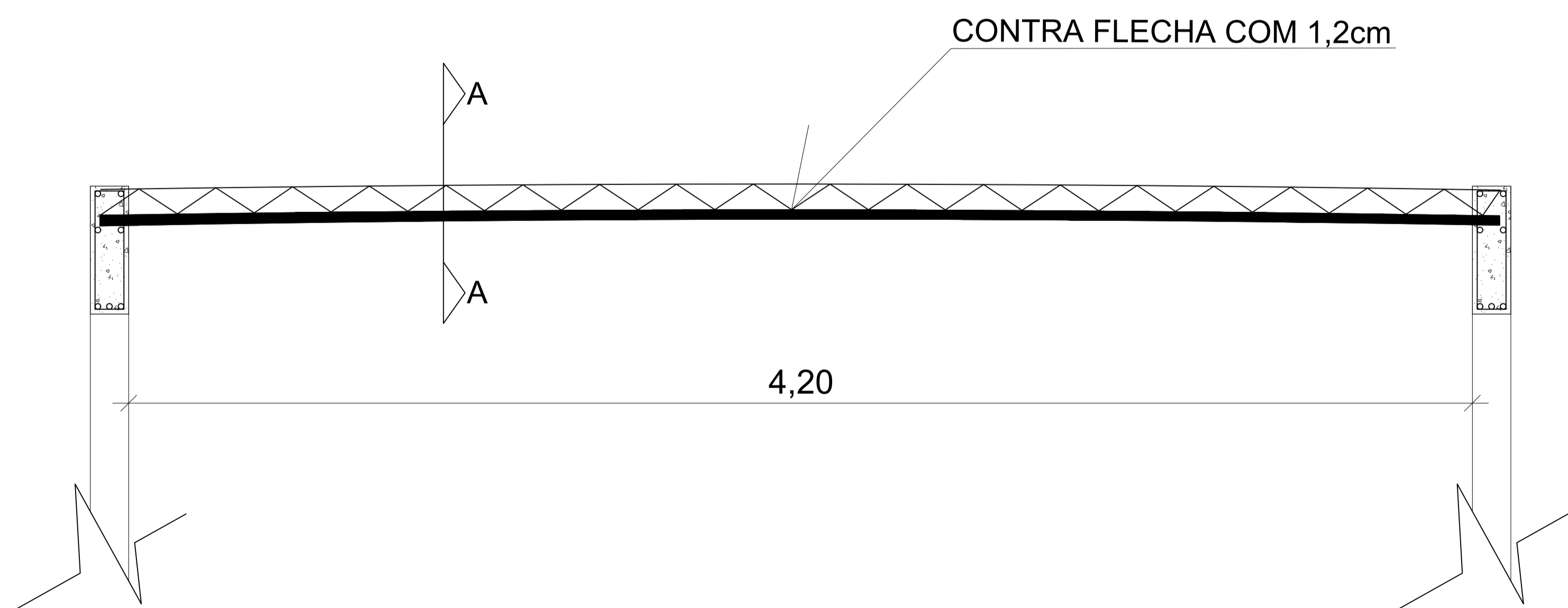
PROJETO	REFORMA E AMPLIAÇÃO DO ESTÁDIO MUNICIPAL VALDERI CARVALHO		
PROPRIETÁRIO	PREFEITURA MUNICIPAL DE MAURITI		
ENDEREÇO / OBRA	RUA PADRE MARANHÃO SEDE DO MUNICÍPIO - MAURITI - CEARÁ		
ASSUNTO	ESTRUTURAL - TRIBUNA E VESTIÁRIOS	PRANCHA	
- ARMADURAS DAS VIGAS DA LAJE DA COBERTA			09.11
PROJETO	DESENHO	ESCALA	DATA
MARX2PROJETOS	MARX2PROJETOS	INDICADA	JANEIRO - 2022



ARMADURAS DAS LAJES DE PISO  
ESC.: ----- 1/50



ARMADURAS DAS LAJES DE FORRO.  
ESC.: ----- 1/50



**PREFEITURA DE MAURITI**  
Cidade das pessoas

**MARX2**  
MARX2 CONSTRUÇÕES EIRELI-ME  
CNPJ: 07.142.384/0001-61  
RUA EDUARDO FONSECA DA COSTA, Nº 238  
DISTRITO DO ROSÁRIO - MANGUEIRAS  
TELEFONE: (85) 33821-4237  
E-MAIL: marx2projeto@gmail.com

PROJETO REFORMA E AMPLIAÇÃO DO ESTÁDIO MUNICIPAL VALDERI CARVALHO

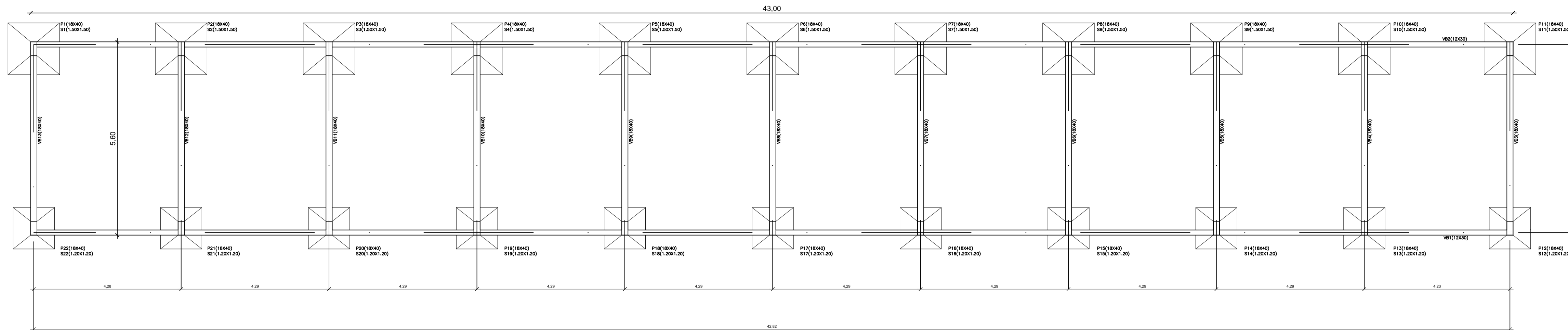
PROPRIETÁRIO PREFEITURA MUNICIPAL DE MAURITI

ENDEREÇO / OBRA RUA PADRE MARANHÃO SEDE DO MUNICÍPIO - MAURITI - CEARÁ

ASSUNTO ESTRUTURAL - TRIBUNA E VESTIÁRIOS PRANCHA

- ARMADURAS DAS LAJES 10.11

PROJETO MARX2PROJETOS	DESENHO MARX2PROJETOS	ESCALA INDICADA	DATA JANEIRO - 2022
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FORMAS E LOCAÇÃO DAS FUNDAÇÕES DA ARQUIBANCADA 1  
ESC.: 1/75



ARMAÇÃO DAS LAJES DE PISO 1  
ESC.: 1/75

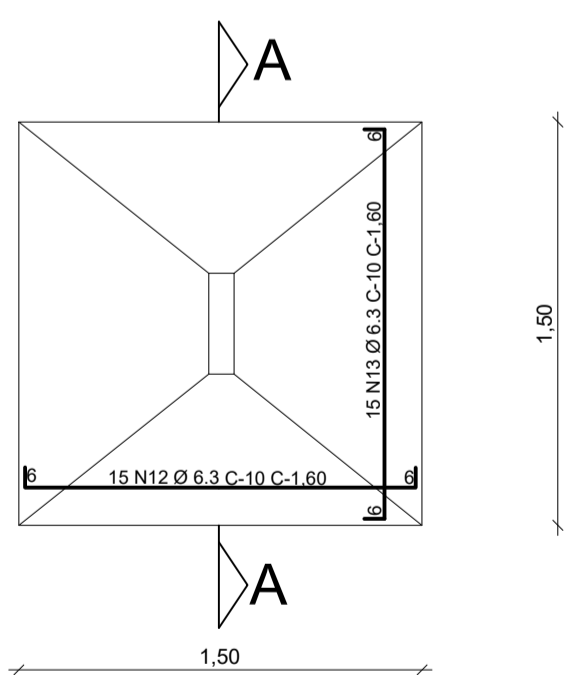
RELAÇÃO DO AÇO DAS VIGAS, PILARES, SAPATAS E LAJES

N	Ø	Q	COMPRIMENTO		PESO Kg P/M	PESO TOTAL KG	VOLUME CONCRETO M³ DAS VIGAS				
			UNIT.	TOTAL			V	L	H	C	TOTAL
1	4.2	430	0,85	365,5	0,109	39,84	1	0,12	0,30	41,02	1,48
2	8.0	4	43,00	172,0	0,393	67,60	2	0,12	0,30	41,02	1,48
3	8.0	4	43,00	172,0	0,393	67,60	3	0,18	0,40	4,80	0,35
4	5.0	416	1,16	482,6	0,154	74,31	4	0,18	0,40	4,80	0,35
5	10.00	44	6,10	268,4	0,624	167,48	5	0,18	0,40	4,80	0,35
6	8.0	44	5,48	241,1	0,393	94,76	6	0,18	0,40	4,80	0,35
7	8.0	22	6,06	133,3	0,393	52,39	7	0,18	0,40	4,80	0,35
8	10.0	88	2,00	176,0	0,624	109,82	8	0,18	0,40	4,80	0,35
9	10.0	88	4,20	369,6	0,624	230,63	9	0,18	0,40	4,80	0,35
10	10.0	88	2,00	176,0	0,624	109,82	10	0,18	0,40	4,80	0,35
11	5.0	506	1,16	587,0	0,154	90,39	11	0,18	0,40	4,80	0,35
12	8.0	165	1,60	264,0	0,393	103,75	12	0,18	0,40	4,80	0,35
13	8.0	165	1,60	264,0	0,393	103,75	13	0,18	0,40	4,80	0,35
14	8.0	132	1,30	171,6	0,393	67,44	14	0,18	0,40	4,80	0,35
15	8.0	132	1,30	171,6	0,393	67,44	15	0,18	0,40	4,80	0,35
16	8.0	25	43,00	1.075,0	0,393	422,48	16	0,18	0,40	4,80	0,35
17	8.0	172	9,00	1.548,0	0,393	608,36	17	0,18	0,40	4,80	0,35
PESO TOTAL DO AÇO CA-50						2.273,33					
PESO TOTAL DO AÇO CA-60						204,55					

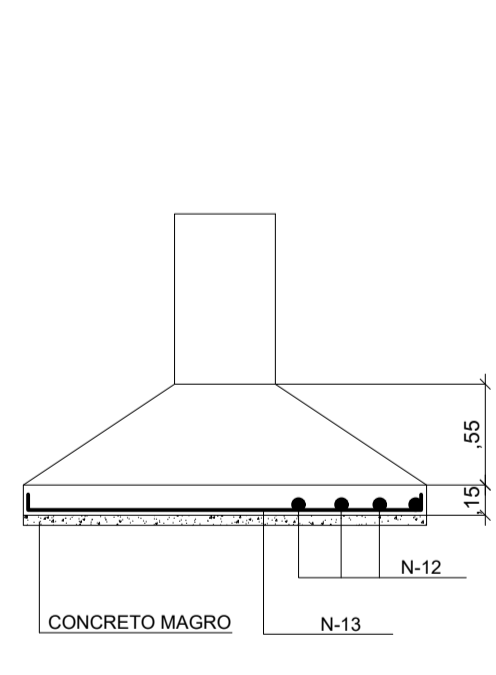
VOLUME CONCRETO M³ P1 A P22				
P	L	H	C	TOTAL
1	0,18	4,50	0,40	0,32
2	0,18	4,50	0,40	0,32
3	0,18	4,50	0,40	0,32
4	0,18	4,50	0,40	0,32
5	0,18	4,50	0,40	0,32
6	0,18	4,50	0,40	0,32
7	0,18	4,50	0,40	0,32
8	0,18	4,50	0,40	0,32
9	0,18	4,50	0,40	0,32
10	0,18	4,50	0,40	0,32
11	0,18	4,50	0,40	0,32
12	0,18	0,85	0,40	0,06
13	0,18	0,85	0,40	0,06
14	0,18	0,85	0,40	0,06
15	0,18	0,85	0,40	0,06
16	0,18	0,85	0,40	0,06
17	0,18	0,85	0,40	0,06
18	0,18	0,85	0,40	0,06
19	0,18	0,85	0,40	0,06
20	0,18	0,85	0,40	0,06
21	0,18	0,85	0,40	0,06
22	0,18	0,85	0,40	0,06
TOTAL				4,24

VOLUME CONCRETO M³ SAPATAS				
S	VOLUME DA SAPATA TOTAL	TOTAL		
1	1,50	0,55	1,50	0,46
2	1,50	0,55	1,50	0,46
3	1,50	0,55	1,50	0,46
4	1,50	0,55	1,50	0,46
5	1,50	0,55	1,50	0,46
6	1,50	0,55	1,50	0,46
7	1,50	0,55	1,50	0,46
8	1,50	0,55	1,50	0,46
9	1,50	0,55	1,50	0,46
10	1,50	0,55	1,50	0,46
11	1,50	0,55	1,50	0,46
12	1,20	0,40	1,20	0,84
13	1,20	0,40	1,20	0,84
14	1,20	0,40	1,20	0,84
15	1,20	0,40	1,20	0,84
16	1,20	0,40	1,20	0,84
17	1,20	0,40	1,20	0,84
18	1,20	0,40	1,20	0,84
19	1,20	0,40	1,20	0,84
20	1,20	0,40	1,20	0,84
21	1,20	0,40	1,20	0,84
22	1,20	0,40	1,20	0,84
TOTAL				14,28

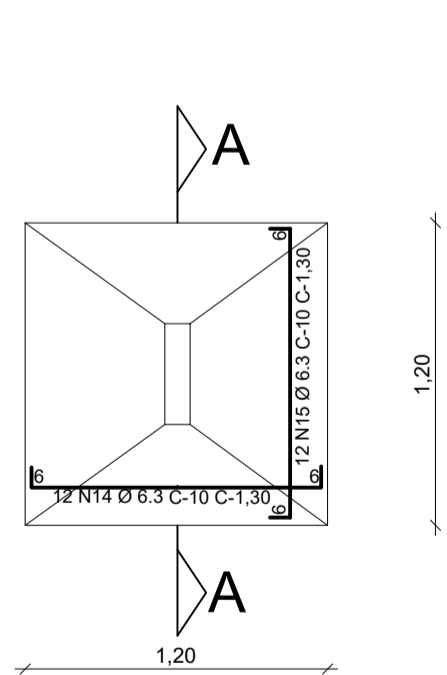
PL.BAIXA DA S1 A S11 (150 X 150)  
S/ESCALA



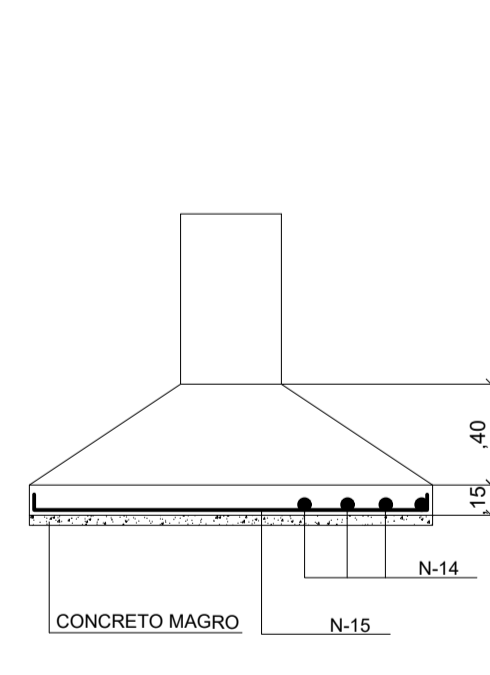
CORTE A-A  
S/ESCALA



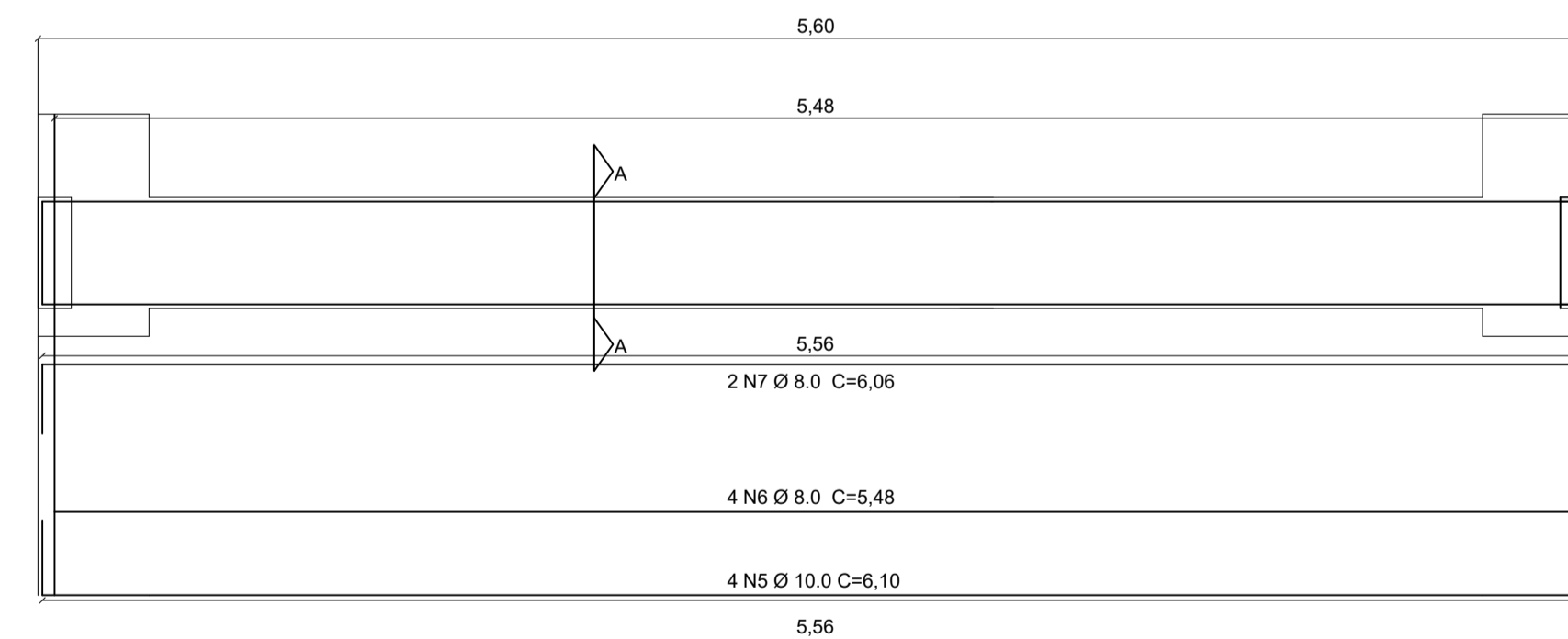
PL.BAIXA DA S12 A S22 (120 X 120)  
S/ESCALA



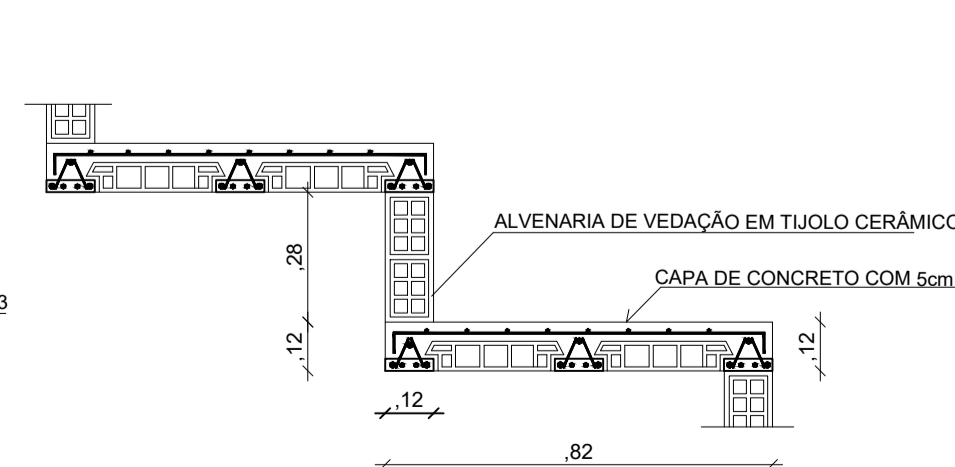
CORTE A-A  
S/ESCALA



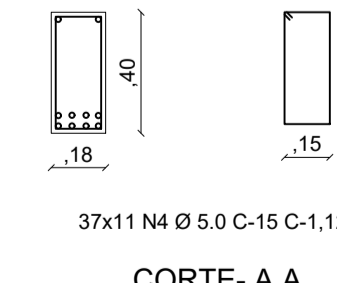
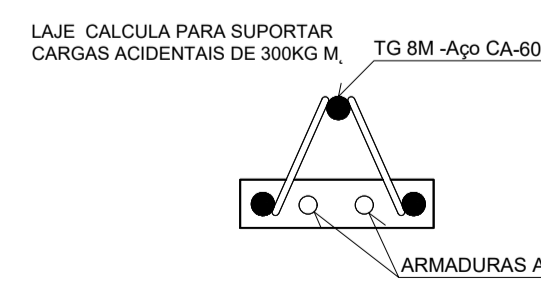
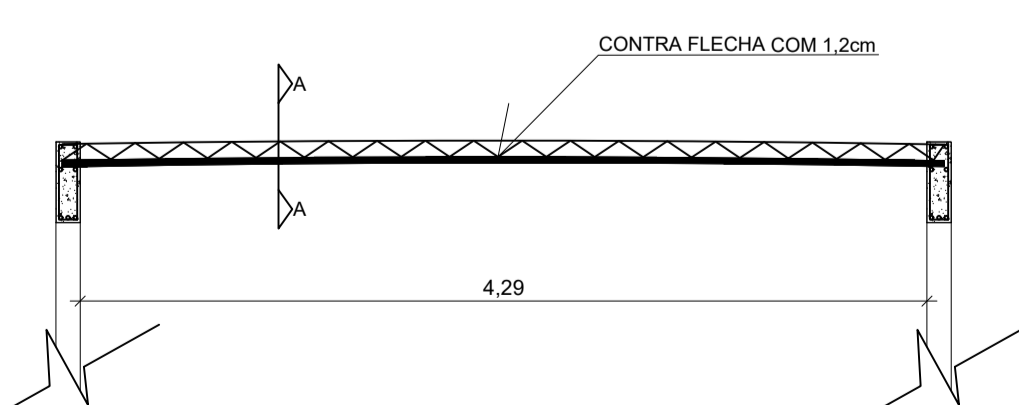
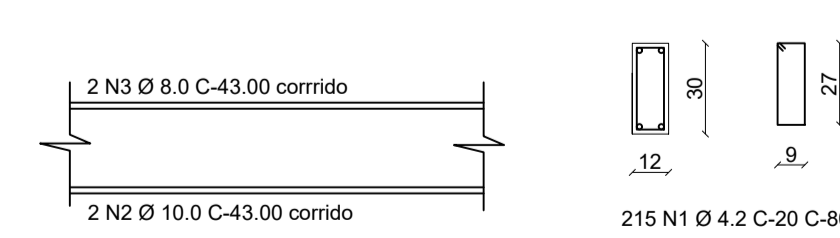
V3 A V13 (18 X 40)  
ESCALA 1:25



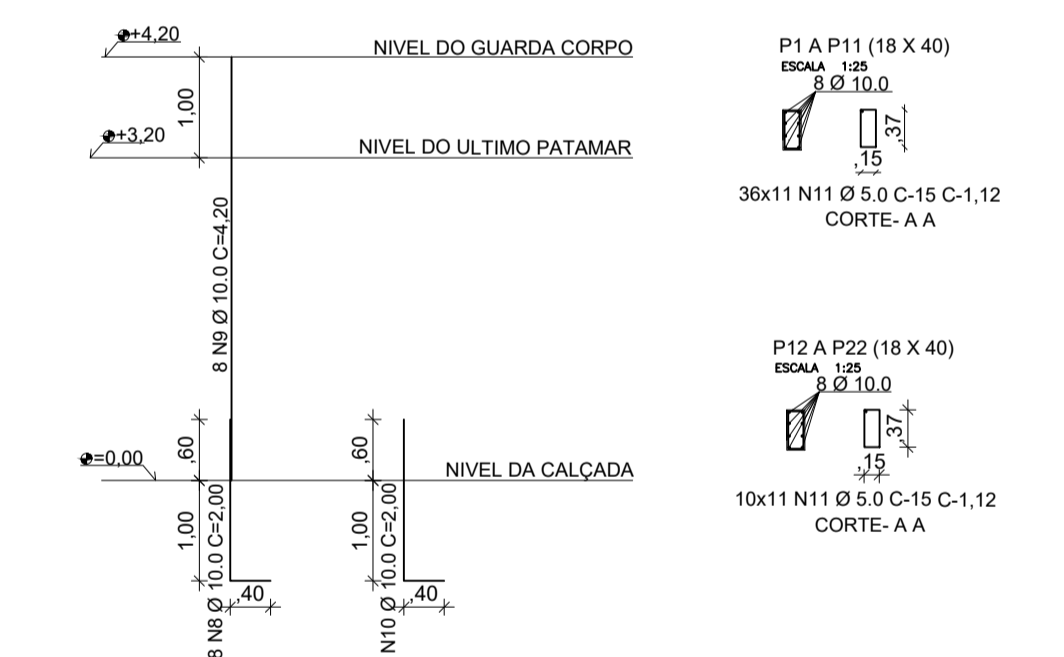
ARMAÇÃO DAS LAJE  
S/ESCALA



VB1, VB2 corrida (12 X 30)  
ESCALA 1:25



CORTE - A A



**MARX2**  
PREFEITURA DE MAURITI  
MARX2 CONSTRUÇÕES EIRELI-ME  
RUA EDUARDO PORTO DA COSTA, Nº 239  
DISTRITO DO ROSÁRIO - MANGABEIRAS - CEARÁ  
TELEFONE: (85) 3 8821-4237  
E-MAIL: marx2projeto@gmail.com

PROJETO	REFORMA E AMPLIAÇÃO DO ESTÁDIO MUNICIPAL VALDERI CARVALHO		
PROPRIETÁRIO	PREFEITURA MUNICIPAL DE MAURITI		
ENDEREÇO / OBRA	RUA PADRE MARANHÃO SEDE DO MUNICÍPIO - MAURITI - CEARÁ		
ASSUNTO	ESTRUTURAL - ARQUIBANCADA	PRANCHA	11.11
PROJETO	DESENHO	ESCALA	DATA
MARX2PROJETOS	MARX2PROJETOS	INDICADA	JANEIRO - 2022