

D

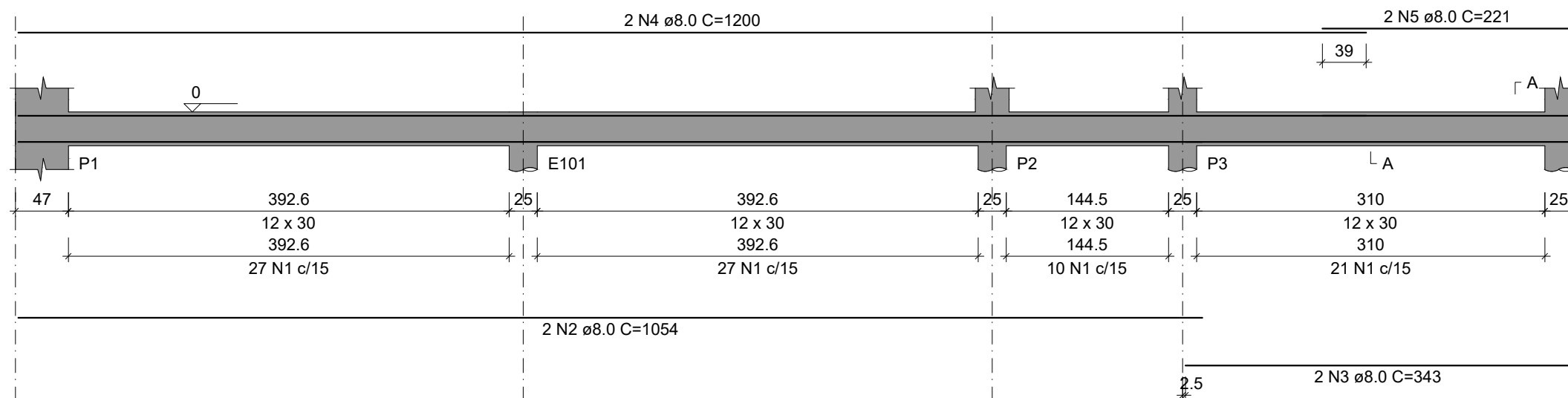
C

B

A

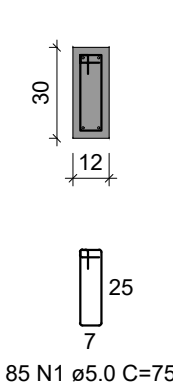
VB1

ESC 1:50



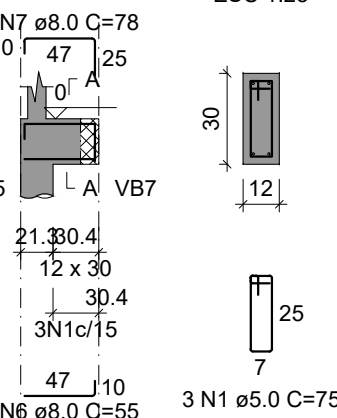
SEÇÃO A-A

ESC 1:25



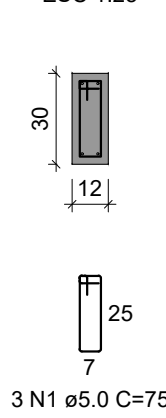
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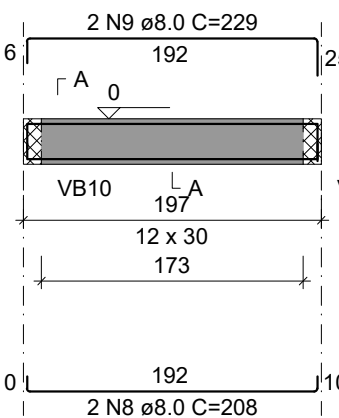
SEÇÃO A-A

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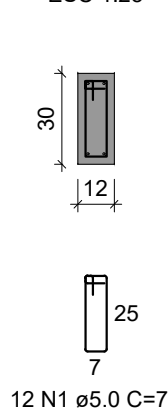
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ESC 1:50



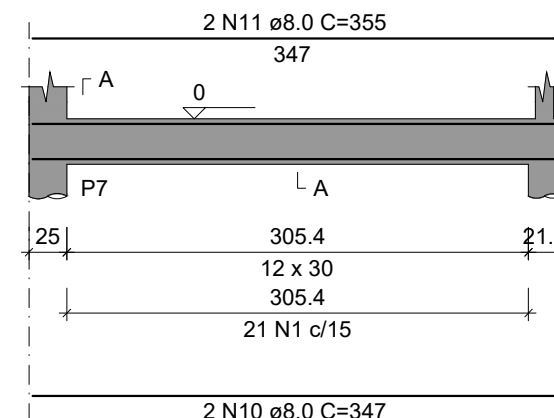
SEÇÃO A-A

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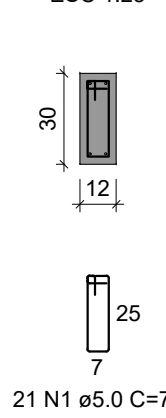
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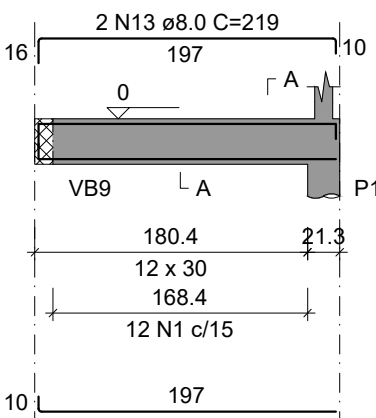
SEÇÃO A-A

ESC 1:25



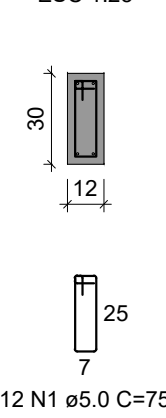
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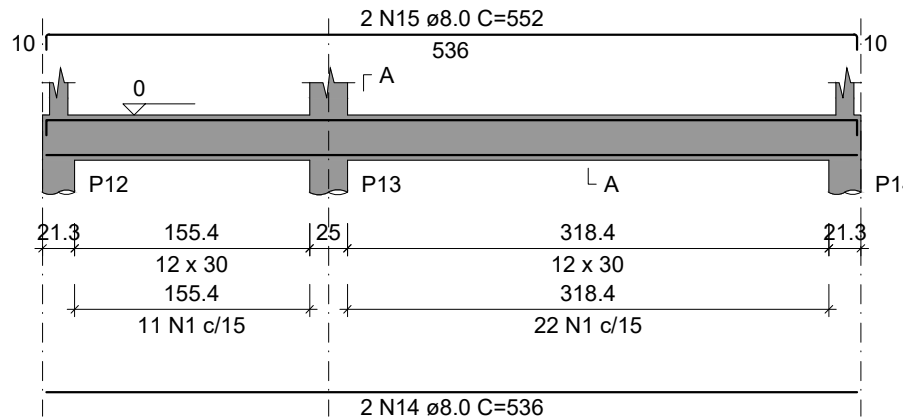
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ESC 1:25



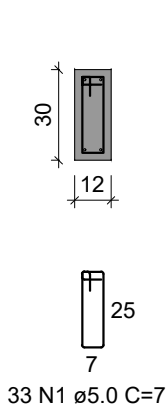
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ESC 1:50



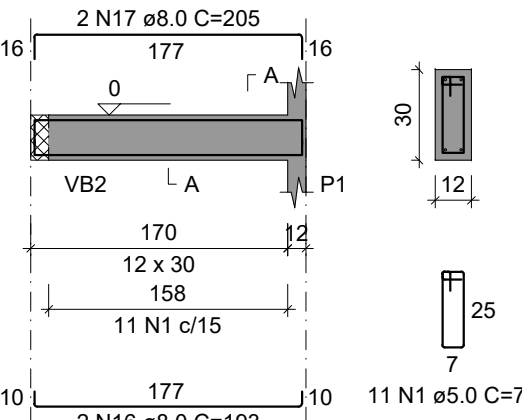
SEÇÃO A-A

ESC 1:25



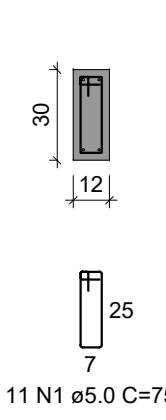
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ESC 1:50



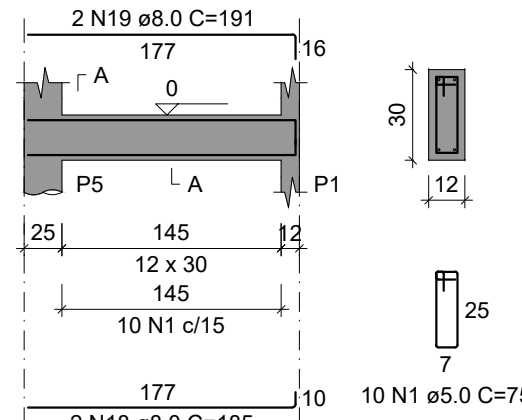
SEÇÃO A-A

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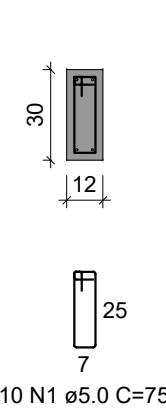
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ESC 1:50



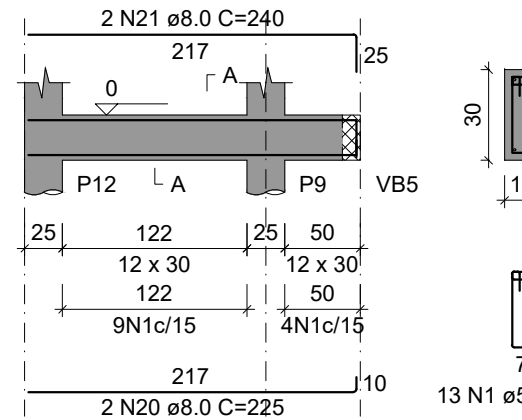
SEÇÃO A-A

ESC 1:25



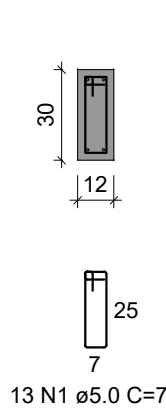
VB9

ESC 1:50



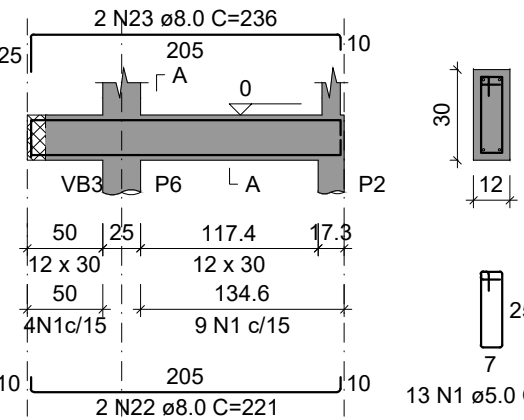
SEÇÃO A-A

ESC 1:25



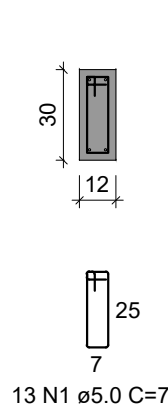
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ESC 1:50



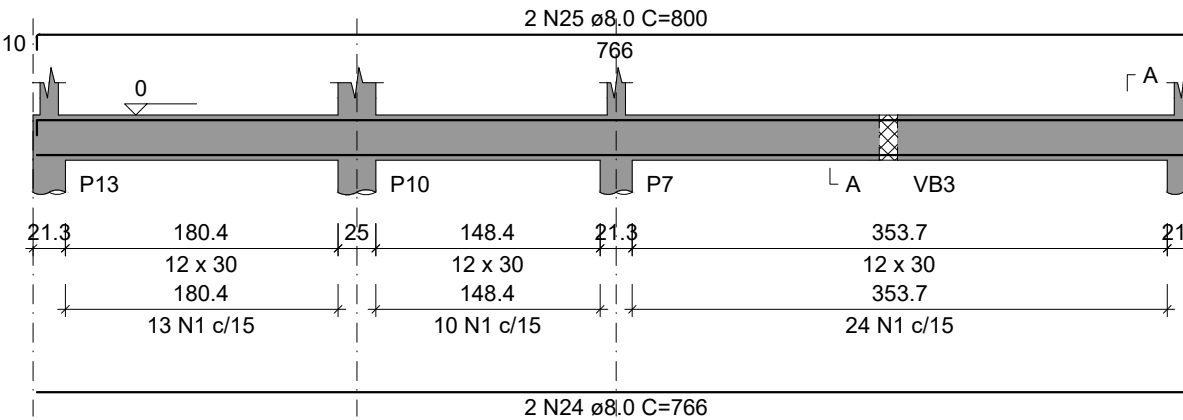
SEÇÃO A-A

ESC 1:25



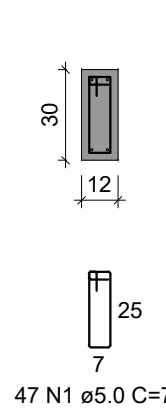
VB11

ESC 1:50



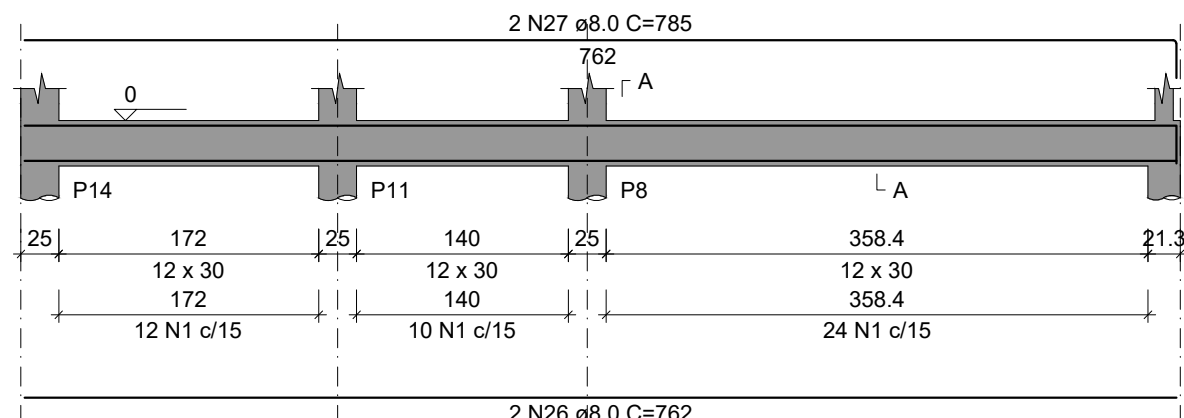
SEÇÃO A-A

ESC 1:25



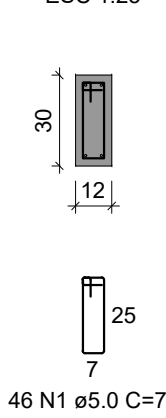
VB12

ESC 1:50



SEÇÃO A-A

ESC 1:25



RELAÇÃO DO AÇO

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
VB1	1	5.0	294	75	22050
VB4	2	8.0	2	1054	2108
VB7	3	8.0	2	343	686
VB10	4	8.0	2	1200	2400
	5	8.0	2	221	442
	6	8.0	2	55	110
	7	8.0	2	78	156
	8	8.0	2	208	416
	9	8.0	2	229	458
	10	8.0	2	347	694
	11	8.0	2	355	710
	12	8.0	2	205	410
	13	8.0	2	219	438
	14	8.0	2	536	1072
	15	8.0	2	552	1104
	16	8.0	2	193	386
	17	8.0	2	205	410
	18	8.0	2	185	370
	19	8.0	2	191	382
	20	8.0	2	225	450
	21	8.0	2	240	480
	22	8.0	2	221	442
	23	8.0	2	236	472
	24	8.0	2	766	1532
	25	8.0	2	800	1600
	26	8.0	2	762	1524
	27	8.0	2	785	1570

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 0% (kg)
CA50	8.0	208.2	82.2
CA60	5.0	220.5	34
PESO TOTAL (kg)			
CA50		82.2	
CA60		34	

Volume de concreto (C-25) = 1.69 m³

Área de forma = 33.83 m²

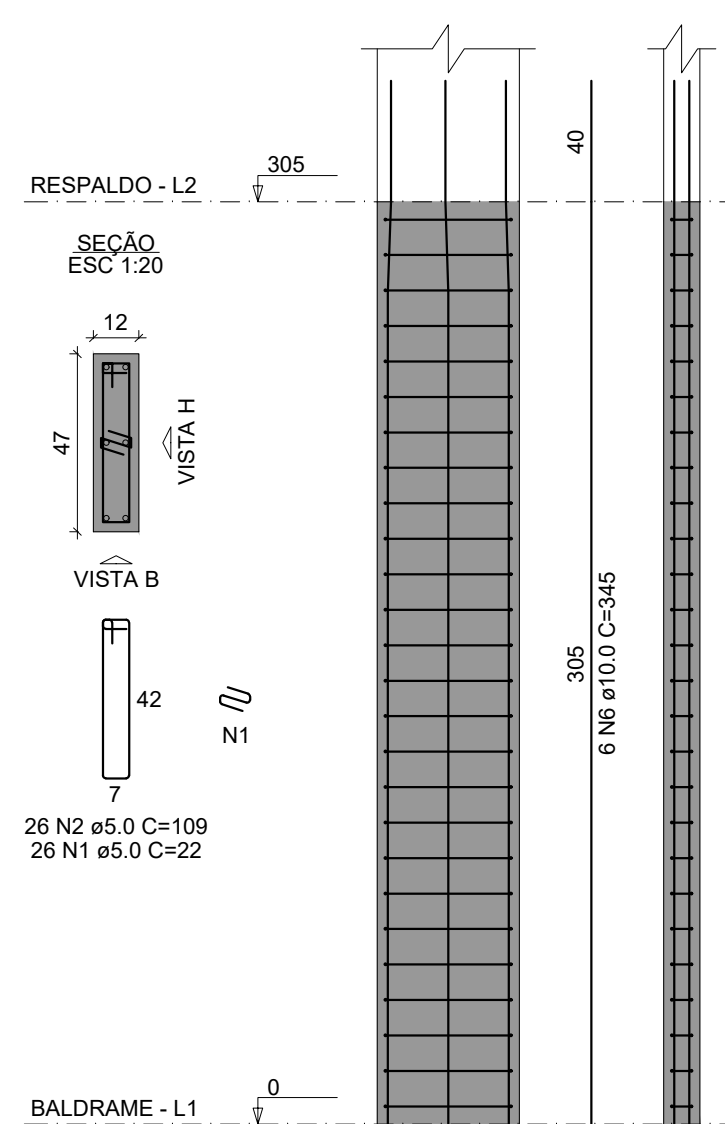
P1

VISTA H

ESC 1:25

VISTA B

ESC 1:25



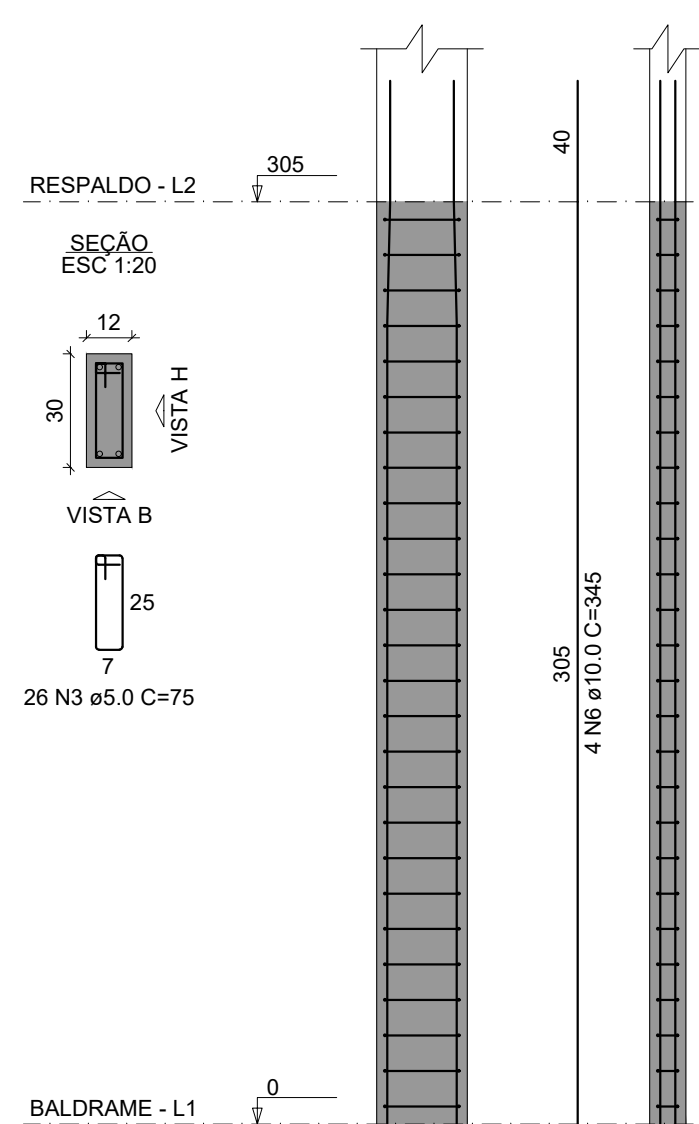
P2

VISTA H

ESC 1:25

VISTA B

ESC 1:25

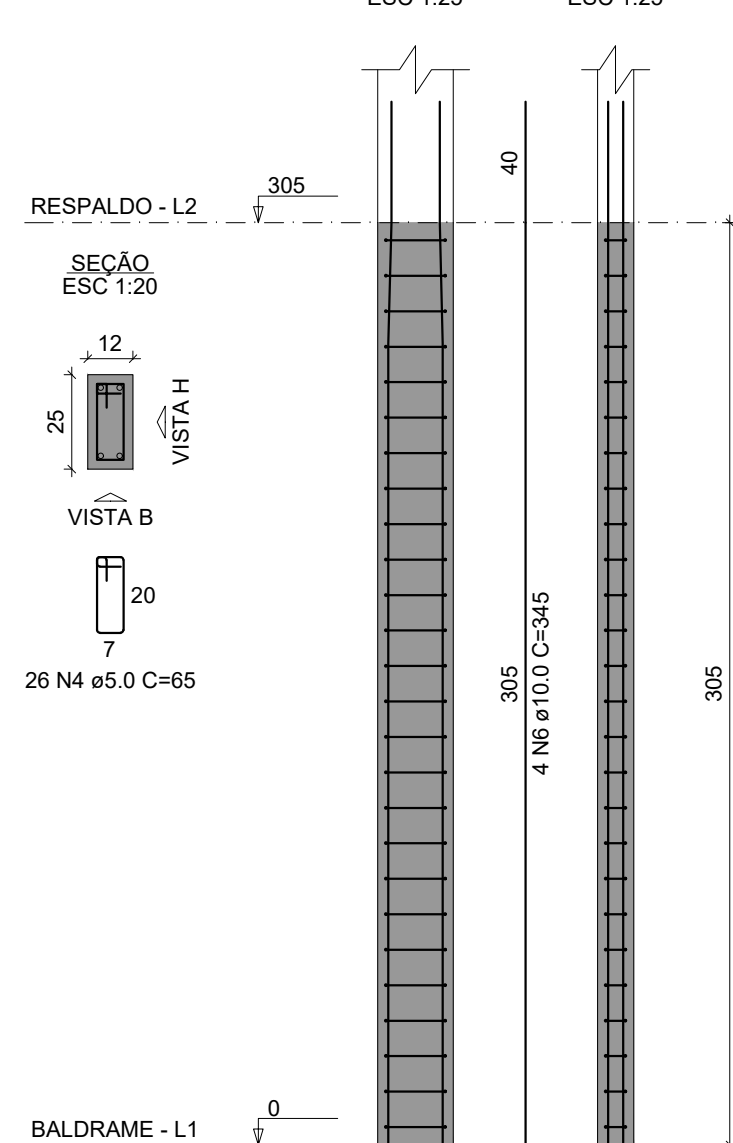
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VISTA H

ESC 1:25

VISTA B

ESC 1:25



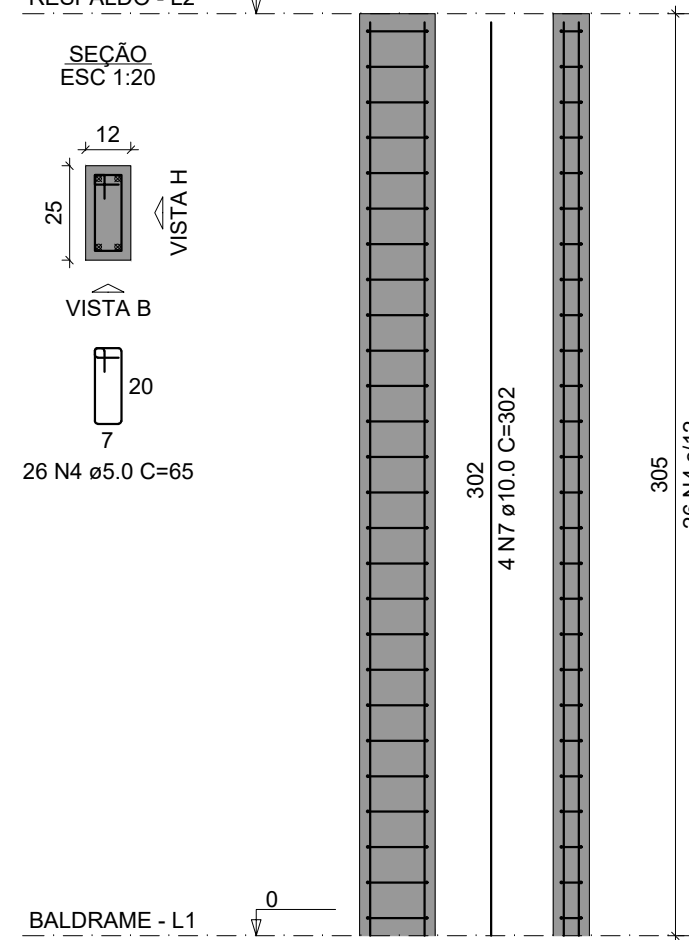
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VISTA H

ESC 1:25

VISTA B

ESC 1:25



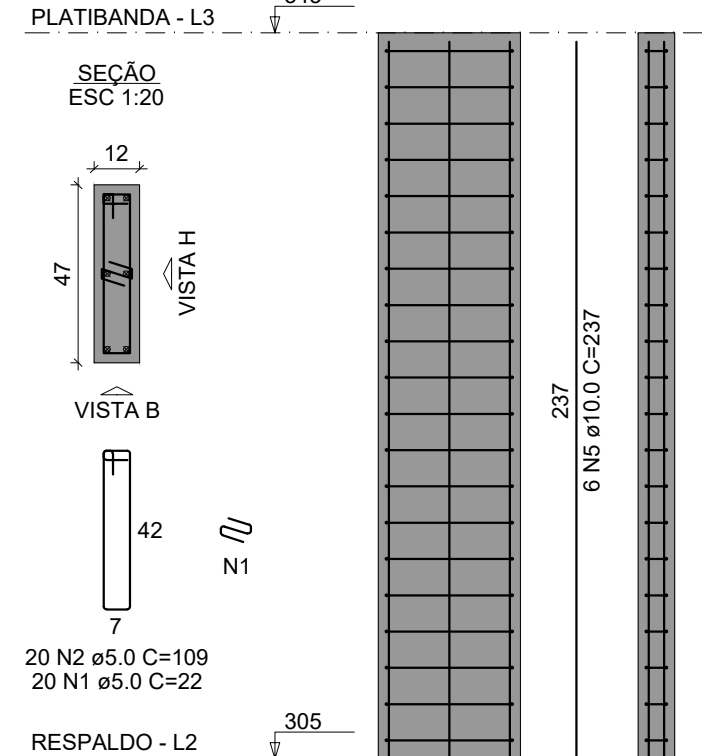
P1

VISTA H

ESC 1:25

VISTA B

ESC 1:25



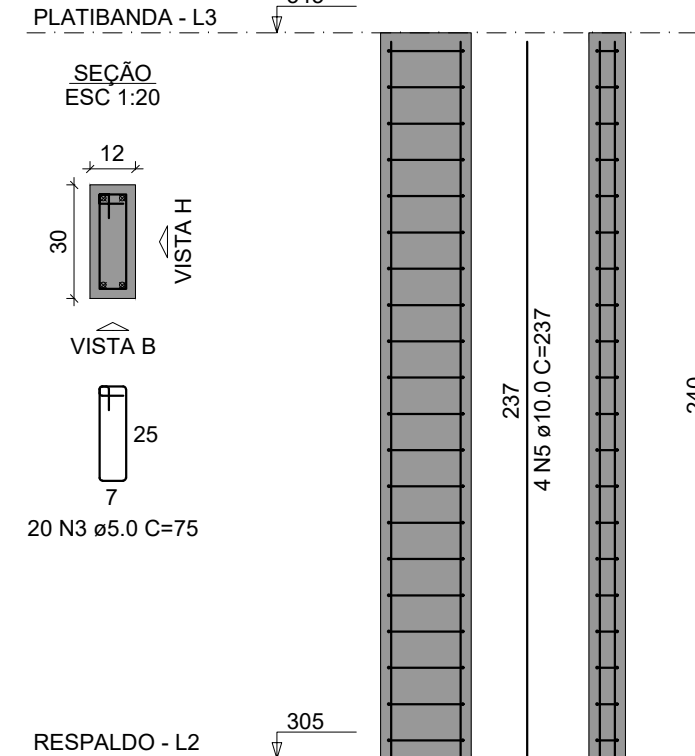
P2

VISTA H

ESC 1:25

VISTA B

ESC 1:25

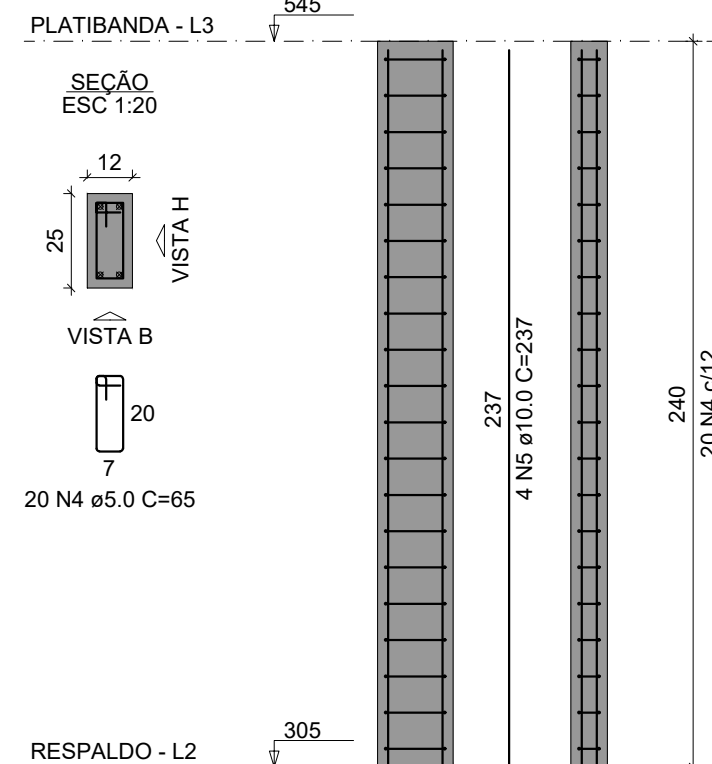
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=P12=P13=P14

VISTA H

ESC 1:25

VISTA B

ESC 1:25



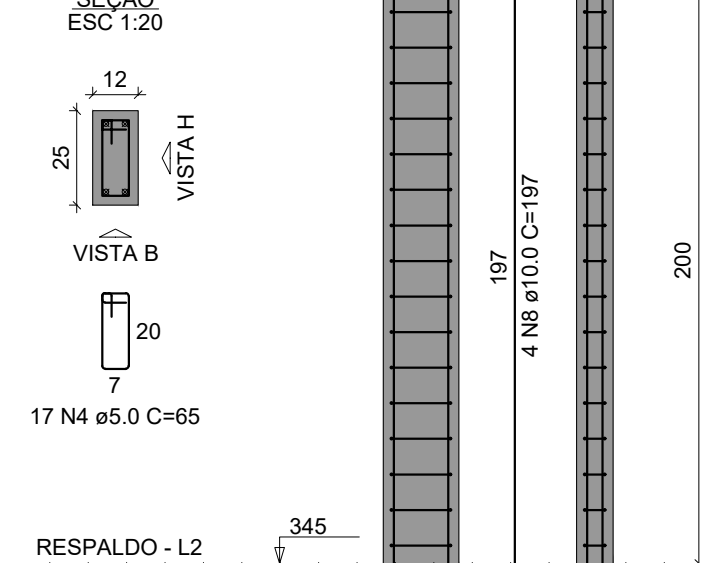
P15

VISTA H

ESC 1:25

VISTA B

ESC 1:25



RELAÇÃO DO AÇO

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
P1-L3	1	5.0	46	22	1012
P2-L2	2	5.0	46	109	5014
3xP7-L2	3	5.0	46	75	3450
	4	5.0	509	65	33085
	5	10.0	46	237	10902
	6	10.0	46	345	15870
	7	10.0	12	302	3624
	8	10.0	4	197	788

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 0% (kg)
CA50	10.0	311.8	192.3
CA60	5.0	425.6	65.6
PESO TOTAL (kg)			
CA50		192.3	
CA60		65.6	

Volume de concreto (C-25) = 2.31 m³

Área de forma = 55.56 m²



Arquitetura em Projetos

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Homepage: apoioarquitetura.com.br  
Resp. Téc: Elson Henrique - CAU A95934-0



MUNICÍPIO DE INDIANÓPOLIS

SECRETARIA MUNICIPAL DE ESPORTES

PROJETO ESTRUTURAL

PROJETO/ORA:  
REFORMA E AMPLIAÇÃO DO GINÁSIO DE ESPORTES JOAQUIM LAVOS ANDRÉLOCAL DA OBRA:  
AV. TUPINAMBÁS ESQ. RUA GUARANÍS, ANEXAÇÃO DAS DATAS NºS 1, 2, 3, 18, 19 E 17-A  
DA QUADRA Nº 03. INDIANÓPOLIS - PR. CEP: 87235-000CONTEÚDO:  
ARMAÇÃO DAS VIGAS BALDRAMES E DOS PILARES

RESP. TÉCNICO:

PROPRIETÁRIO:

ELSON HENRIQUE CAMPOS BENTO  
ARQUITETO E URBANISTA - CAU A95.934-0MUNICÍPIO DE INDIANÓPOLIS  
CNPJ: 75.798.355/0001-77

CÓDIGO

PRANCHA

03/07

ESCALA

INDICADA

DATA

11/2024

PRANCHA

A1