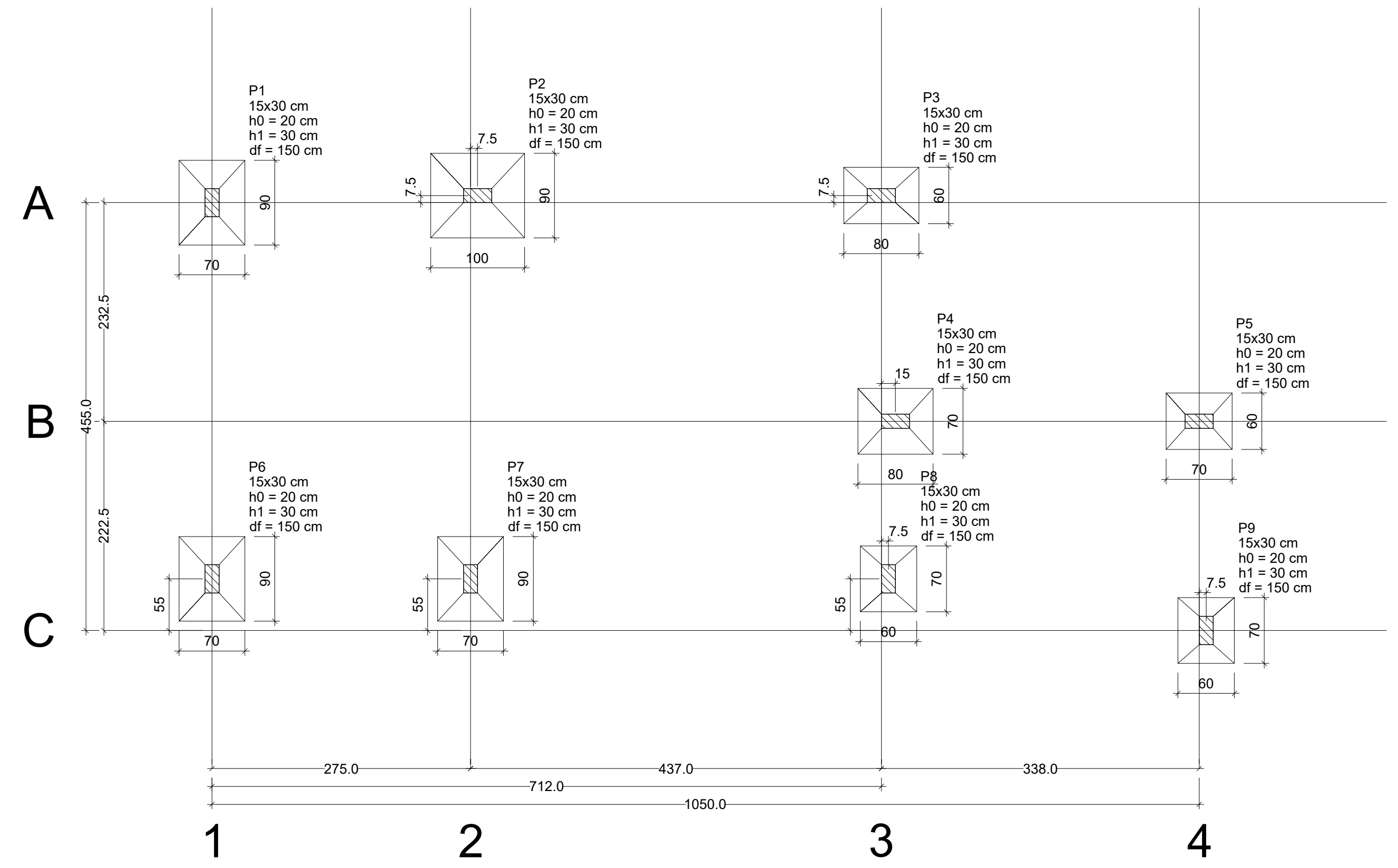
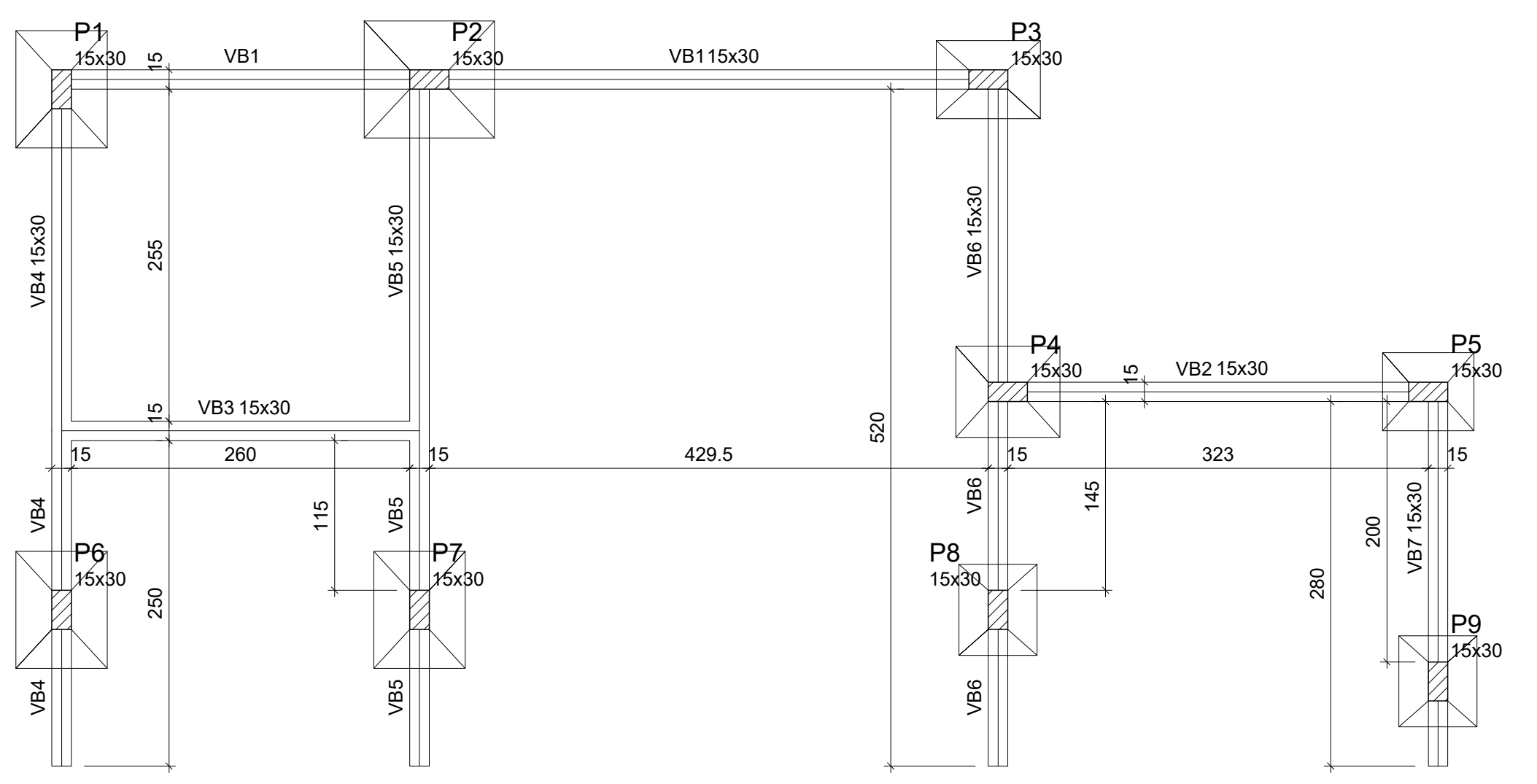


PLANTA DE LOCAÇÃO
escala 1:50



FORMA DO BALDRAME
escala 1:50

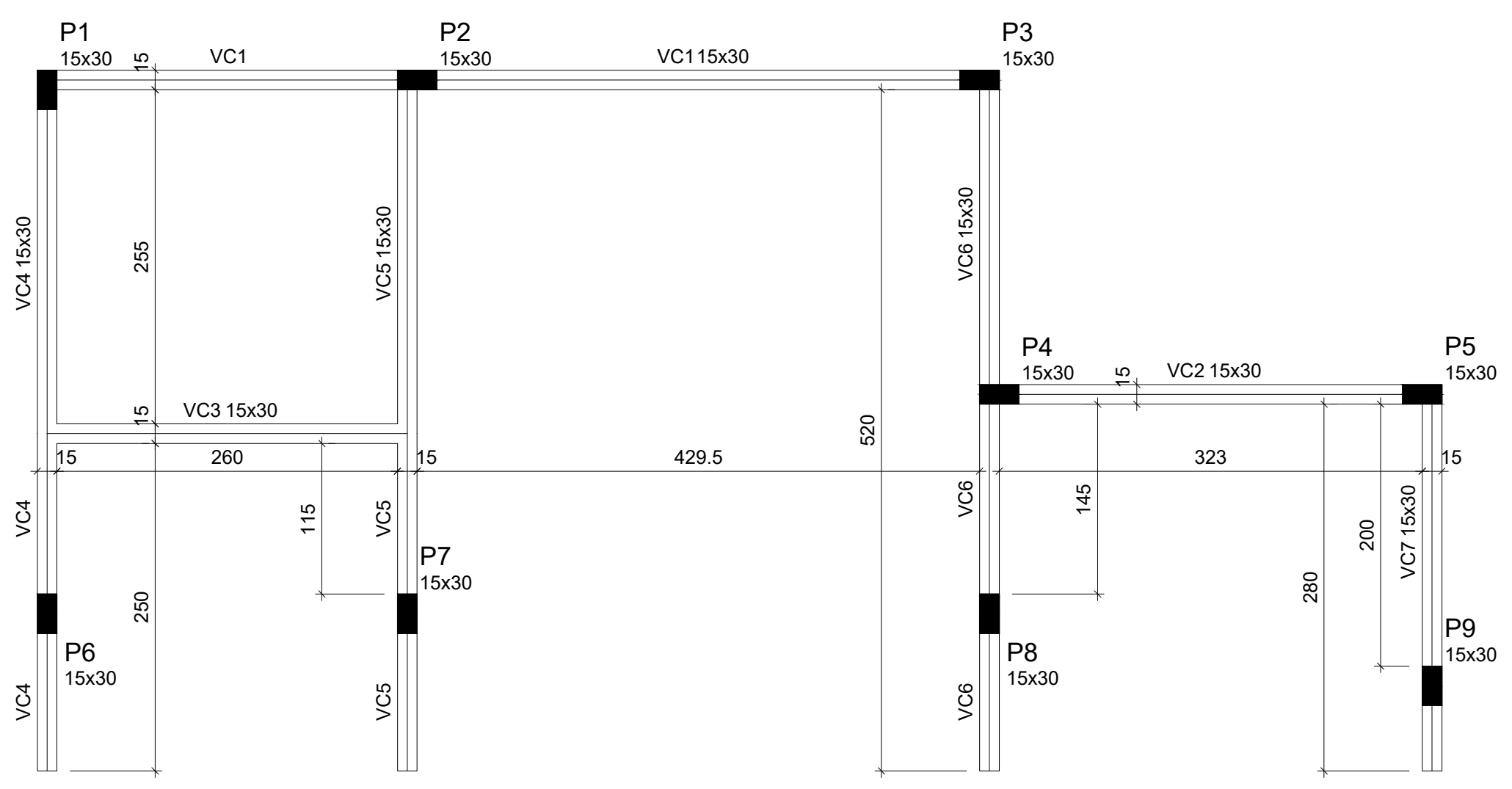
Vigas			
Nome	Seção (cm)	Elevação (cm)	Nível (cm)
VB1	15x30	0	0
VB2	15x30	0	0
VB3	15x30	0	0
VB4	15x30	0	0
VB5	15x30	0	0
VB6	15x30	0	0
VB7	15x30	0	0

Características dos materiais

fck (kgf/cm²)	Ecs (kgf/cm²)	Abatimento (cm)
250	241500	5.00

Pilares			
Nome	Seção (cm)	Elevação (cm)	Nível (cm)
P1	15 x 30	0	0
P2	15 x 30	0	0
P3	15 x 30	0	0
P4	15 x 30	0	0
P5	15 x 30	0	0
P6	15 x 30	0	0
P7	15 x 30	0	0
P8	15 x 30	0	0
P9	15 x 30	0	0

Legenda dos Pilares	
■	Pilar que morre
▨	Pilar que passa
□	Pilar que nasce
◧	Pilar com mudança de seção



FORMA DE COBERTURA
escala 1:50

Vigas			
Nome	Seção (cm)	Elevação (cm)	Nível (cm)
VC1	15x30	0	300
VC2	15x30	0	300
VC3	15x30	0	300
VC4	15x30	0	300
VC5	15x30	0	300
VC6	15x30	0	300
VC7	15x30	0	300

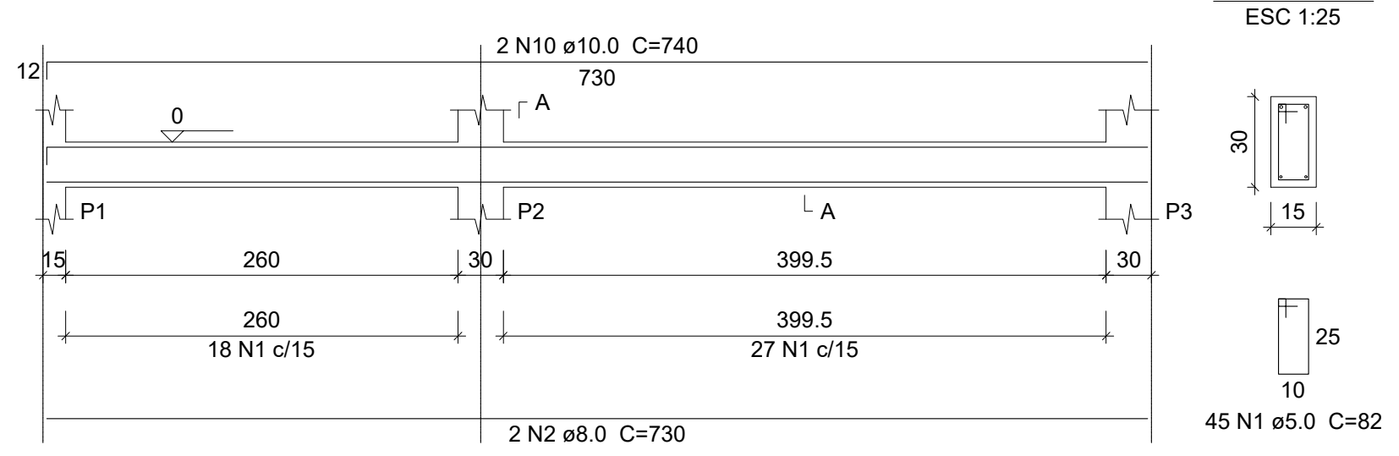
Características dos materiais

fck (kgf/cm²)	Ecs (kgf/cm²)	Abatimento (cm)
250	241500	5.00

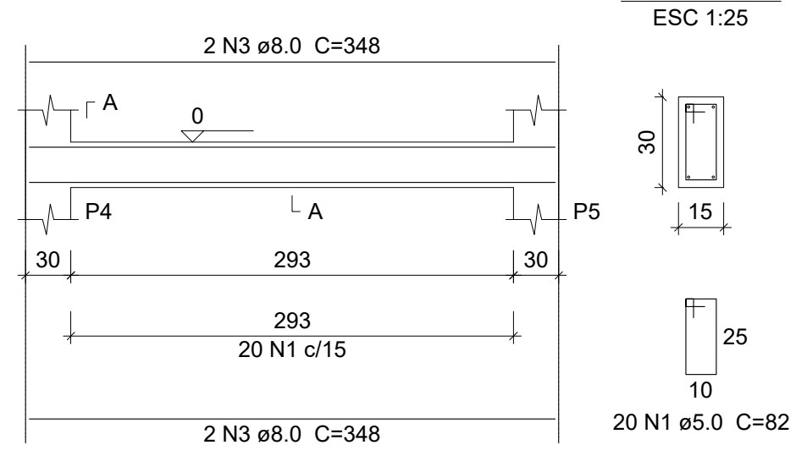
Pilares			
Nome	Seção (cm)	Elevação (cm)	Nível (cm)
P1	15 x 30	0	300
P2	15 x 30	0	300
P3	15 x 30	0	300
P4	15 x 30	0	300
P5	15 x 30	0	300
P6	15 x 30	0	300
P7	15 x 30	0	300
P8	15 x 30	0	300
P9	15 x 30	0	300

Legenda dos Pilares	
■	Pilar que morre
▨	Pilar que passa
□	Pilar que nasce
◧	Pilar com mudança de seção

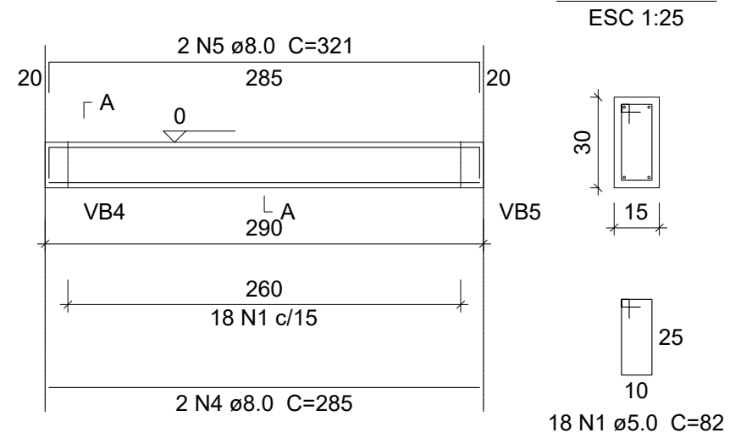
VB1 (15 x 30)



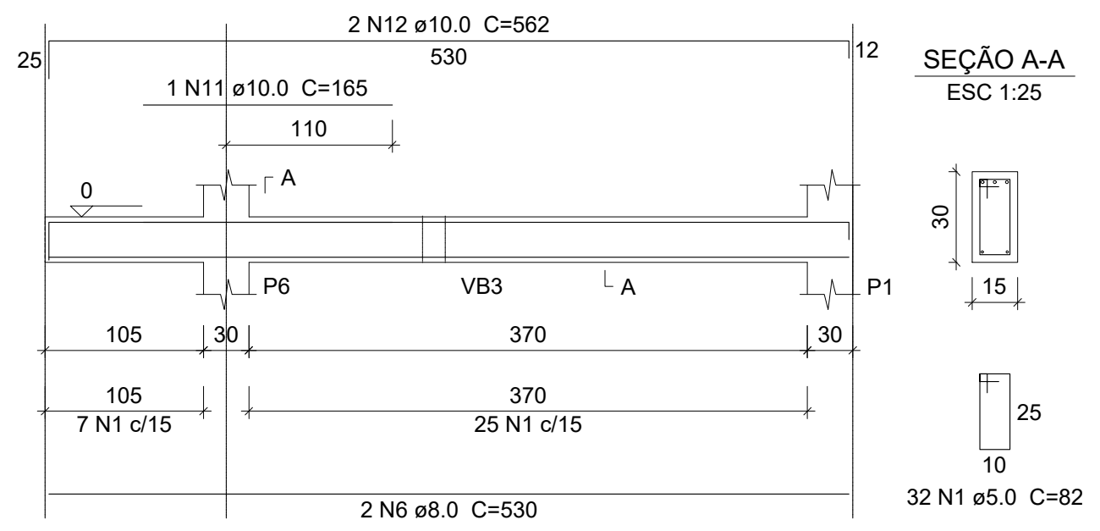
VB2 (15 x 30)



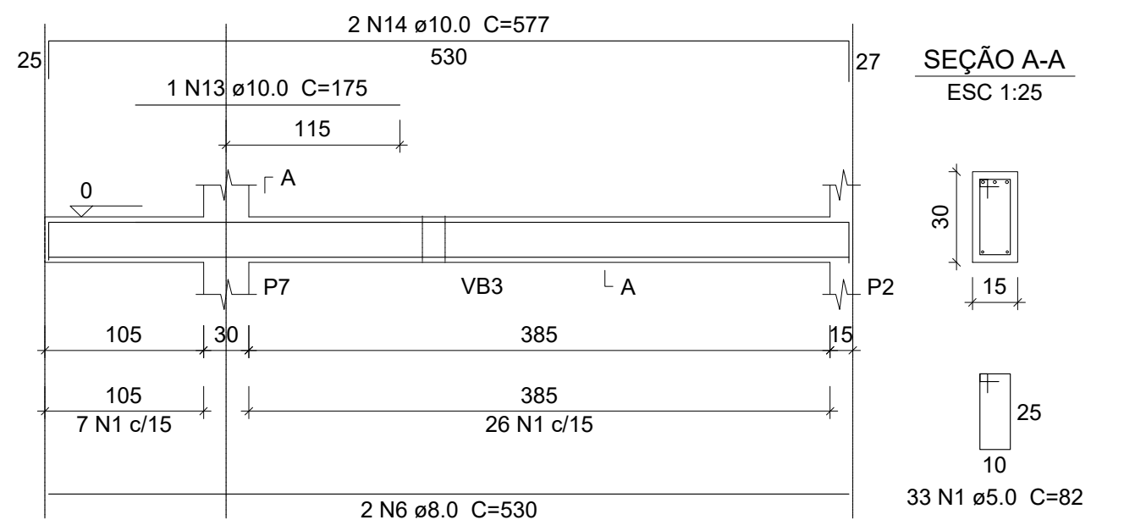
VB3 (15 x 30)



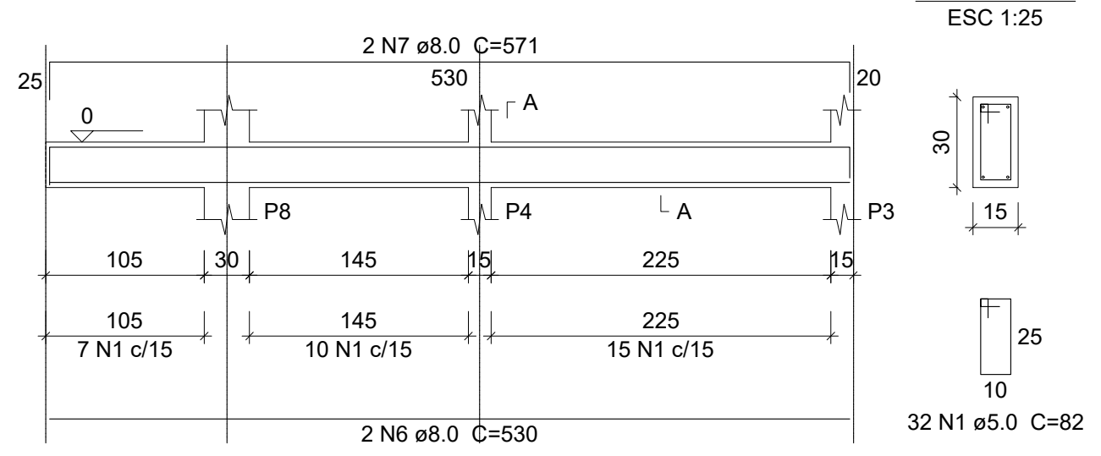
VB4 (15 x 30)



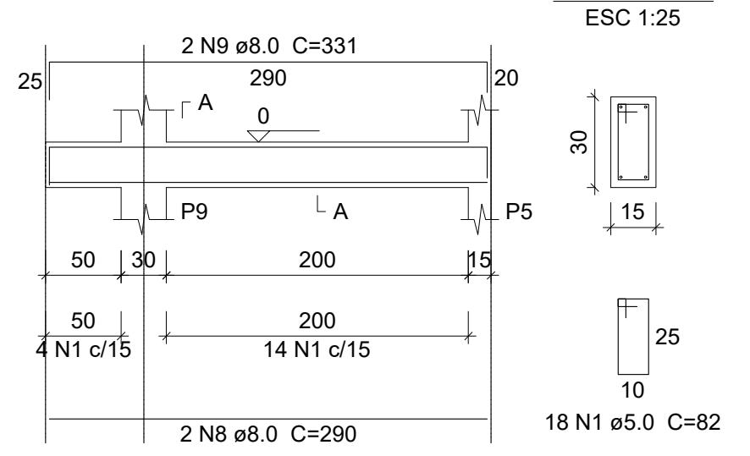
VB5 (15 x 30)



VB6 (15 x 30)



VB7 (15 x 30)



Relação do aço

VB1 VB2 VB3
VB4 VB5 VB6
VB7

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	198	82	16236
CA50	2	8.0	2	730	1460
	3	8.0	4	348	1392
	4	8.0	2	285	570
	5	8.0	2	321	642
	6	8.0	6	530	3180
	7	8.0	2	571	1142
	8	8.0	2	290	580
	9	8.0	2	331	662
	10	10.0	2	740	1480
	11	10.0	1	165	165
	12	10.0	2	562	1124
	13	10.0	1	175	175
	14	10.0	2	577	1154

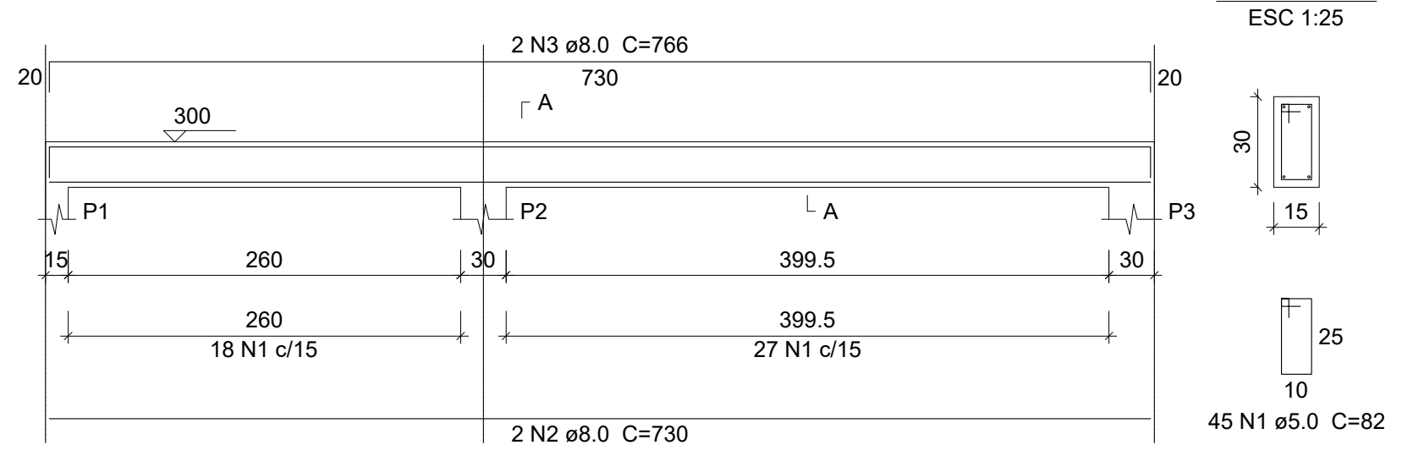
Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	8.0	96.3	41.8
	10.0	41	27.8
CA60	5.0	162.4	27.5

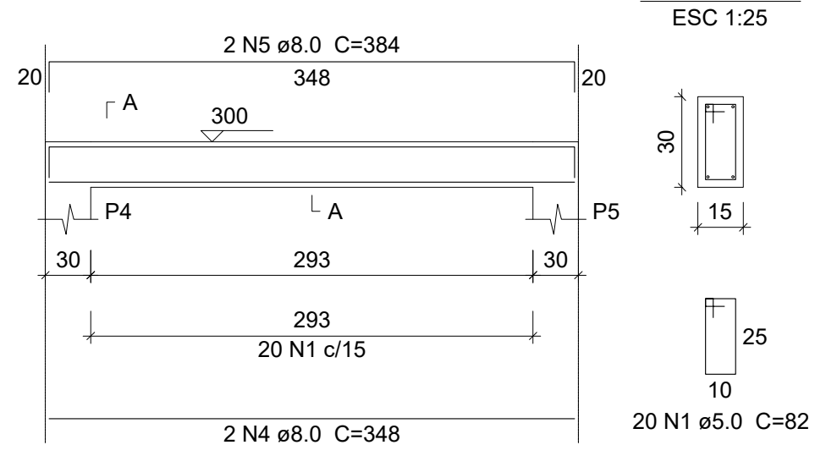
PESO TOTAL (kg)	
CA50	69.6
CA60	27.5

Volume de concreto (C-25) = 1.47 m³
Área de forma = 24.58 m²

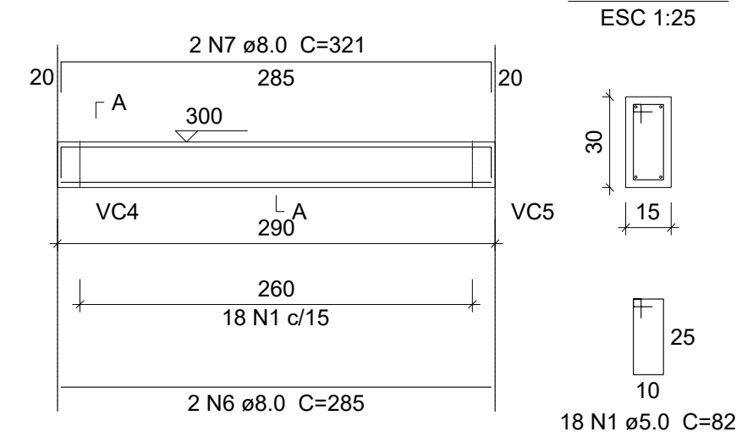
VC1 (15 x 30)



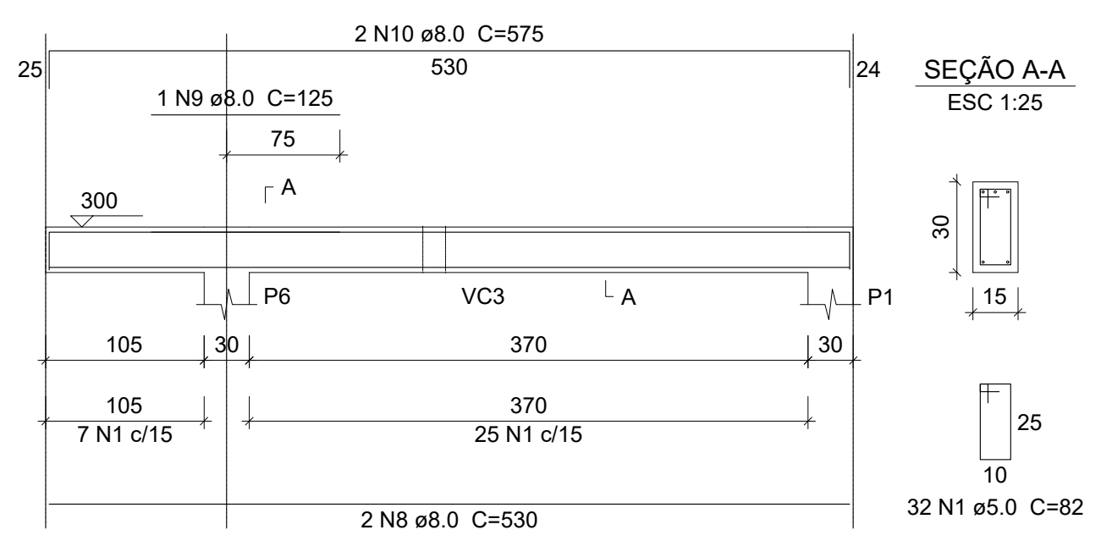
VC2 (15 x 30)



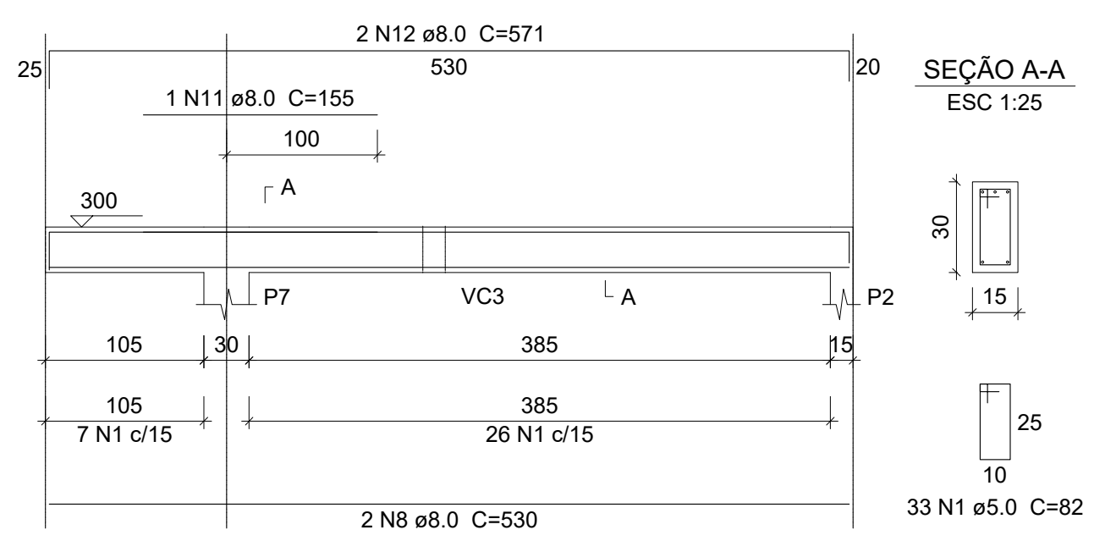
VC3 (15 x 30)



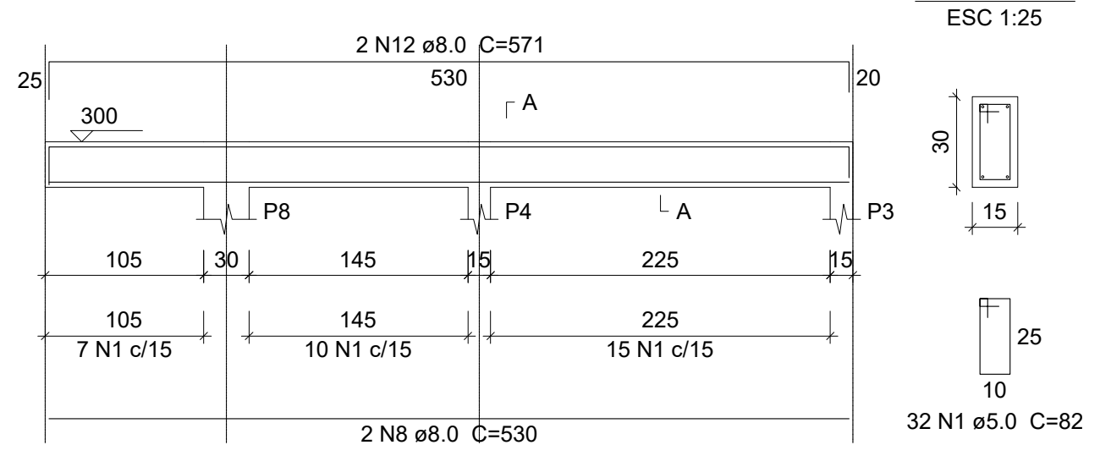
VC4 (15 x 30)



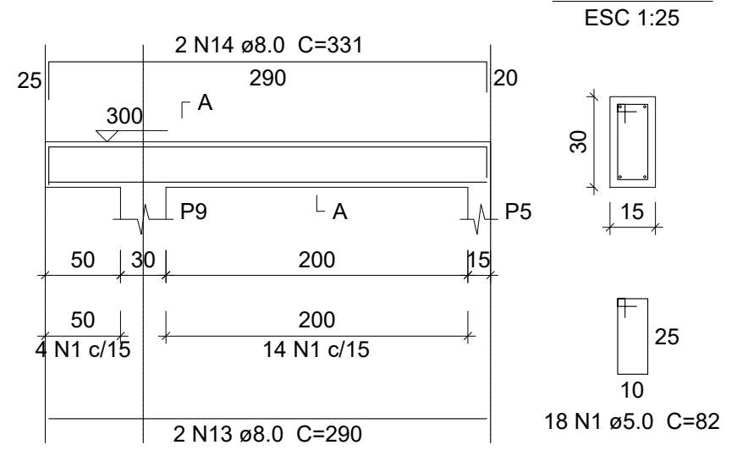
VC5 (15 x 30)



VC6 (15 x 30)



VC7 (15 x 30)



Relação do aço

VC1 VC2 VC3
VC4 VC5 VC6
VC7

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	198	82	16236
CA50	2	8.0	2	730	1460
	3	8.0	2	766	1532
	4	8.0	2	348	696
	5	8.0	2	384	768
	6	8.0	2	285	570
	7	8.0	2	321	642
	8	8.0	6	530	3180
	9	8.0	1	125	125
	10	8.0	2	575	1150
	11	8.0	1	155	155
	12	8.0	4	571	2284
	13	8.0	2	290	580
	14	8.0	2	331	662

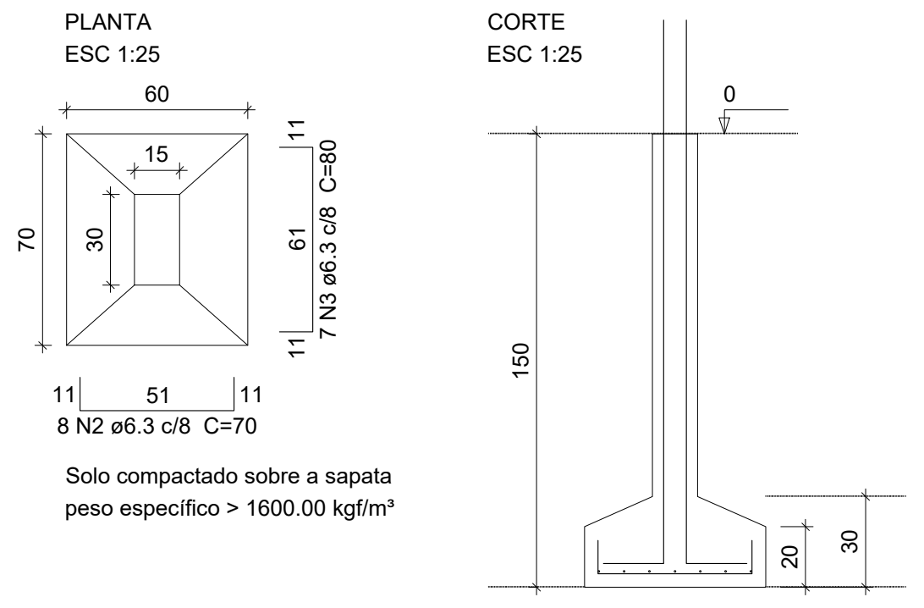
Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	8.0	138.1	59.9
CA60	5.0	162.4	27.5

PESO TOTAL (kg)	
CA50	59.9
CA60	27.5

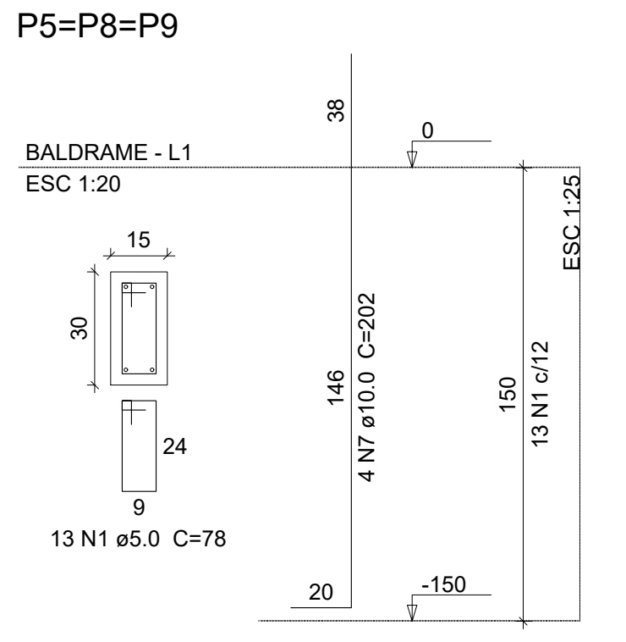
Volume de concreto (C-25) = 1.47 m³
Área de forma = 24.58 m²

S5=S8=S9

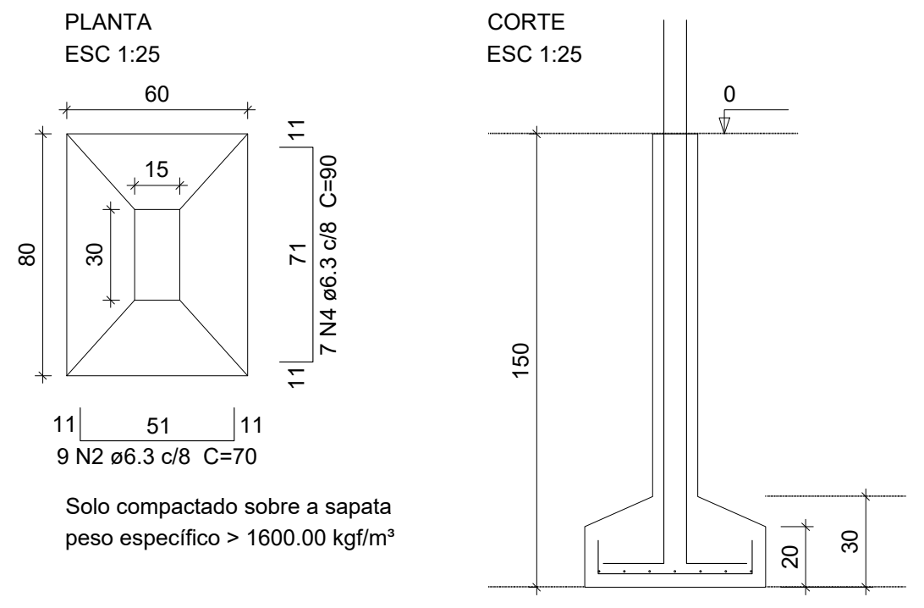


Solo compactado sobre a sapata
peso específico > 1600.00 kgf/m³

P5=P8=P9

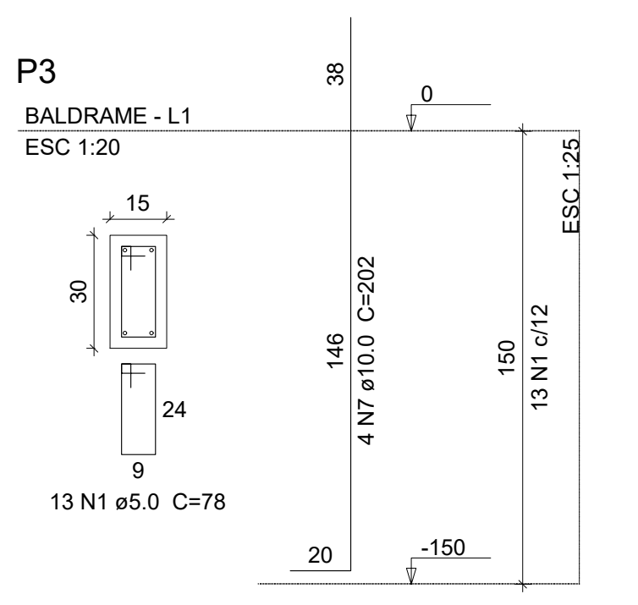


S3

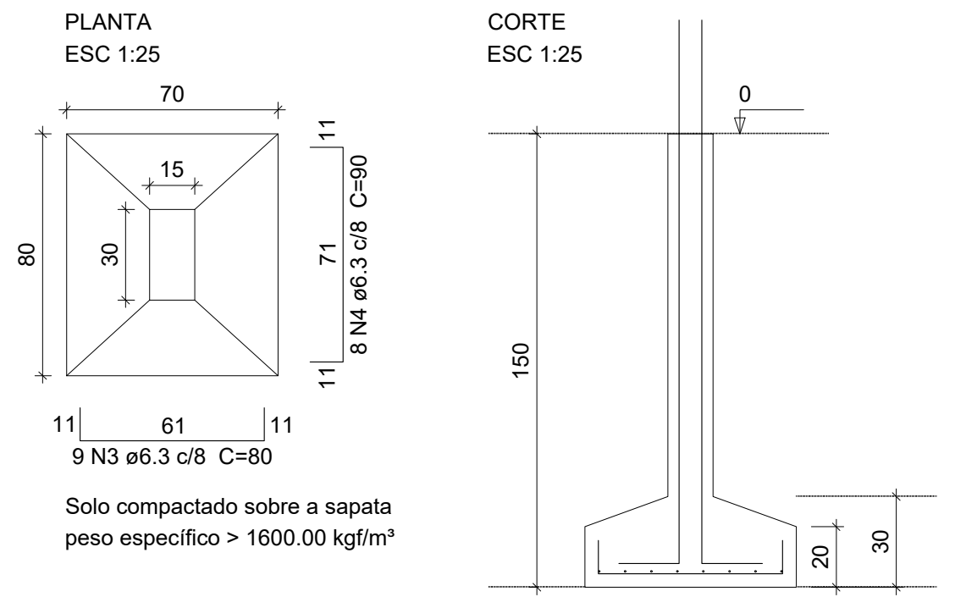


Solo compactado sobre a sapata
peso específico > 1600.00 kgf/m³

P3

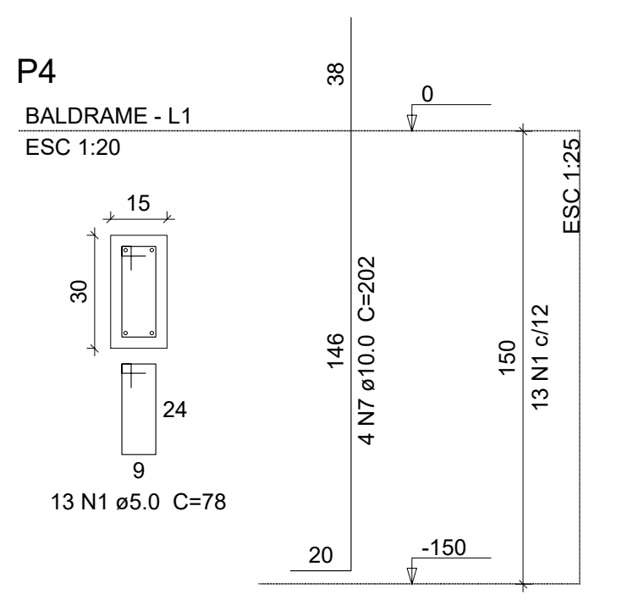


S4

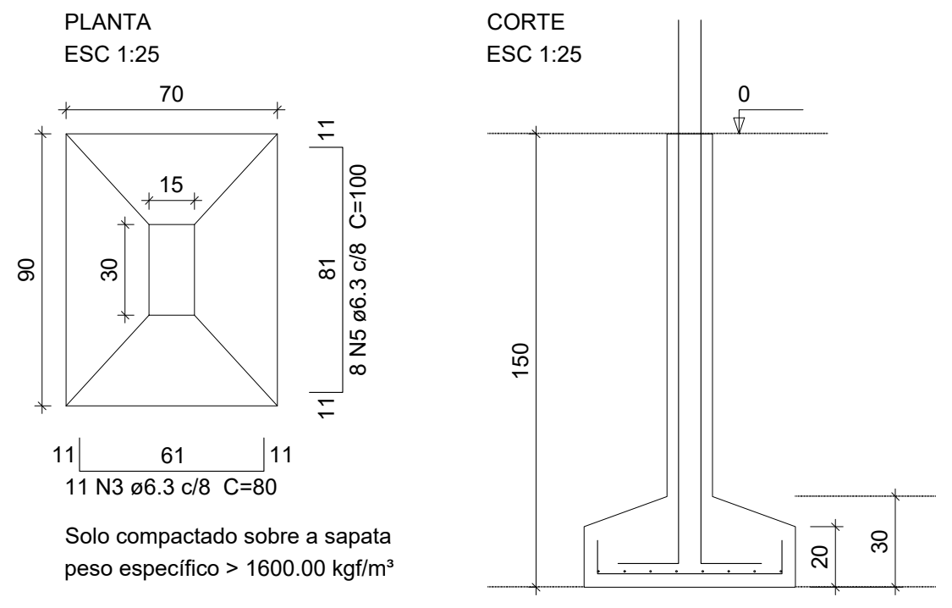


Solo compactado sobre a sapata
peso específico > 1600.00 kgf/m³

P4

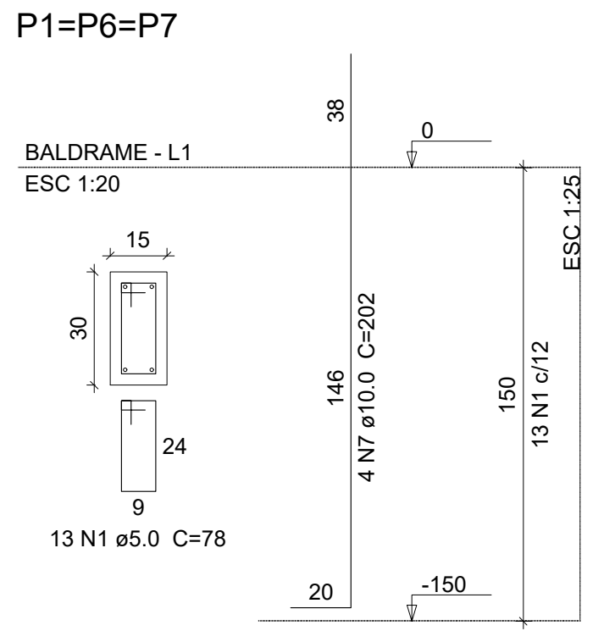


S1=S6=S7



Solo compactado sobre a sapata
peso específico > 1600.00 kgf/m³

P1=P6=P7



Relação do aço

3xS1 S2 S3
S4 3xS5

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	117	78	9126
CA50	2	6.3	33	70	2310
	3	6.3	63	80	5040
	4	6.3	15	90	1350
	5	6.3	36	100	3600
	6	6.3	11	110	1210
	7	10.0	36	202	7272

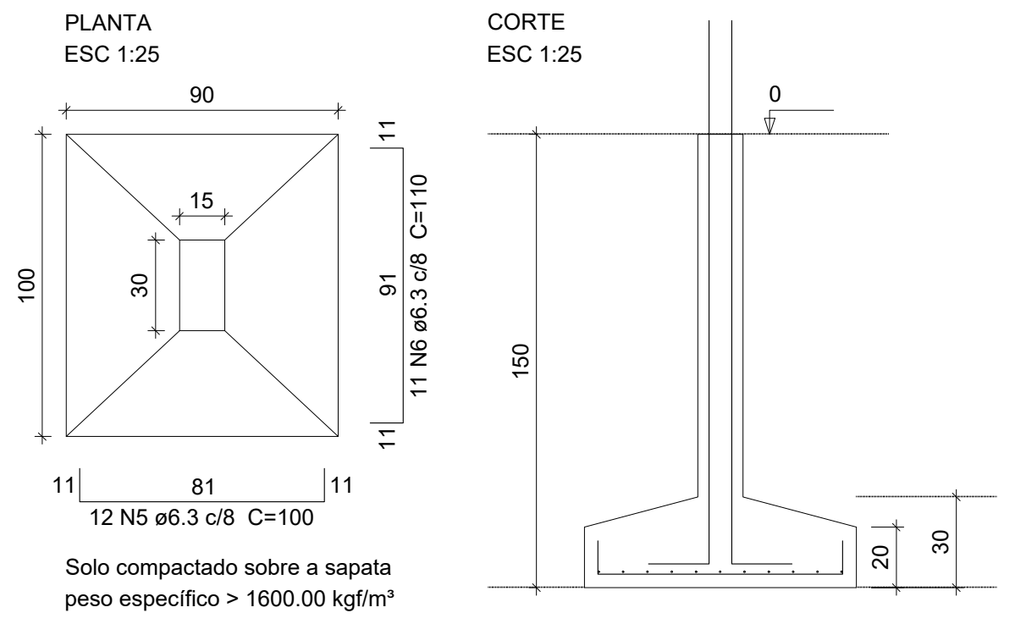
Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	6.3	135.1	36.4
	10.0	72.8	49.3
CA60	5.0	91.3	15.5

PESO TOTAL (kg)	
CA50	85.7
CA60	15.5

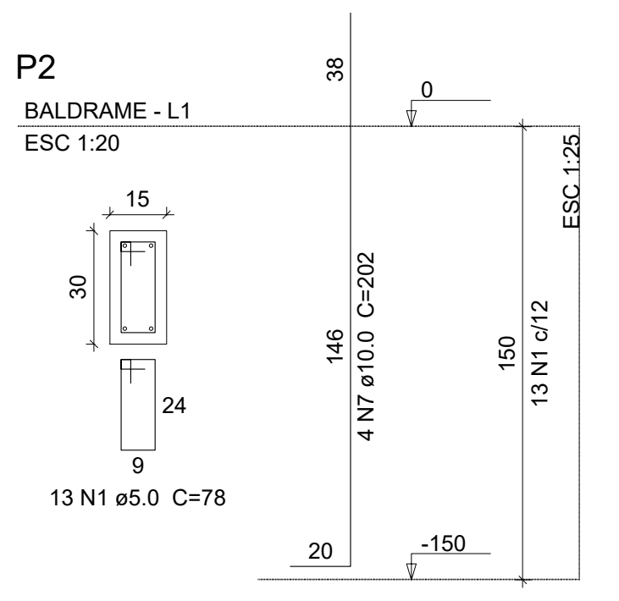
Volume de concreto (C-25) = 1.86 m³
Área de forma = 17.55 m²

S2

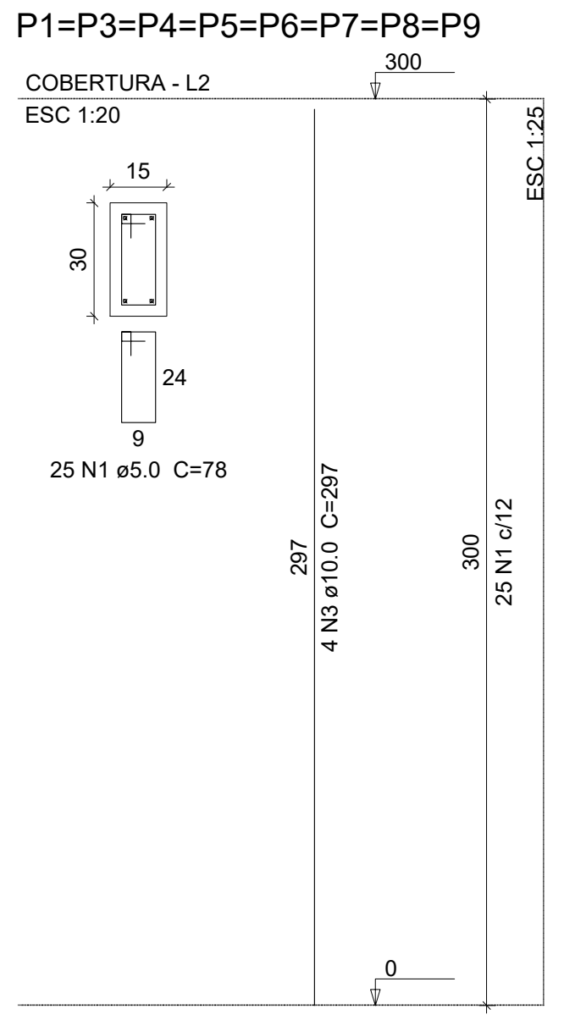


Solo compactado sobre a sapata
peso específico > 1600.00 kgf/m³

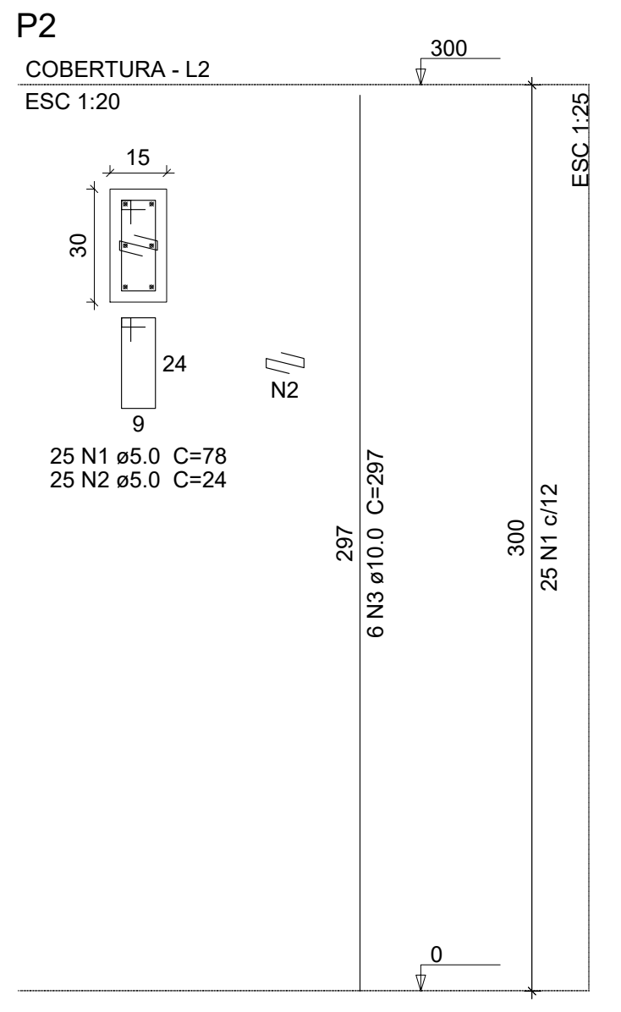
P2



P1=P3=P4=P5=P6=P7=P8=P9



P2



Relação do aço

8xP1 P2

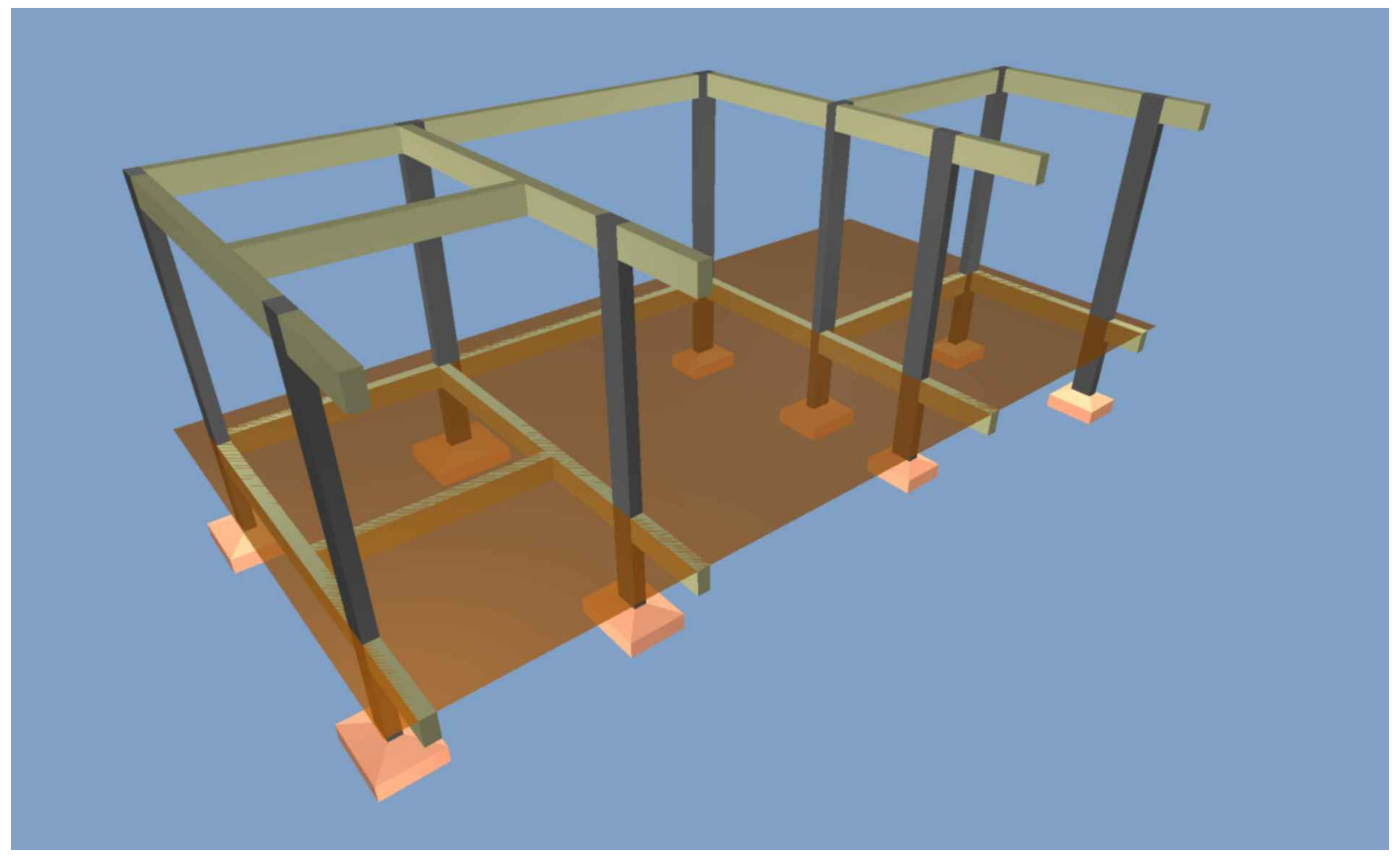
AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	225	78	17550
	2	5.0	25	24	600
CA50	3	10.0	38	297	11286

Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	10.0	112.9	76.5
CA60	5.0	181.5	30.8

PESO TOTAL (kg)	
CA50	76.5
CA60	30.8

Volume de concreto (C-25) = 1.21 m³
Área de forma = 24.3 m²



APROVAÇÃO:

APROVAÇÃO:

Governo do Estado do Tocantins
Secretaria de Estado da Saúde

Diretoria de Arquitetura e Engenharia
dos Estabelecimentos de Saúde

OBRA:
AMPLIAÇÃO DA AGÊNCIA TRANSFUSIONAL DO HOSPITAL E MATERNIDADE DONA REGINA SIQUEIRA CAMPOS

ENDEREÇO:
104N, RUA NE-5, CONJ. 4, LT. 32,34,36,38,40 E 42, PALMAS-TO

PROJETO:	CONTEÚDO:
ESTRUTURAL	PLANTAS DE FORMA, PLANTA DE LOCAÇÃO, DETALHAMENTO DE VIGAS E PILARES, DETALHAMENTO DAS SAPATAS, RELAÇÃO DO AÇO, NOTAS E LEGENDAS.

AUTOR(A) DO PROJETO:	DIRETOR(A):
PAULO CHIANCA SILVA ANALISTA DE PROJETOS DE OBRAS CIVIS E ARQUITETÔNICAS MAT.: 124208-2 CREA: 211438/D-TO	MARCELO LUIS GRATÃO CASTRO DIRETOR DE ARQ. E ENG. DOS ESTAB. DE SAÚDE MAT.: 11503840 CAU: TO A52176-0

SECRETÁRIO(A):

ÁREA EXISTENTE:	ÁREA A AMPLIAR:	ÁREA A REFORMAR:	ÁREA TOTAL:	
5.835,48m²	45,20 m²	31,23 m²	5892,86 m²	ÚNICA
TERRENO:	NOME DO ARQUIVO:		DATA:	
4.200,00 m²	ECA-HMDR-AG.TRANS.-PLM-PB-00		Dezembro/2017	A0