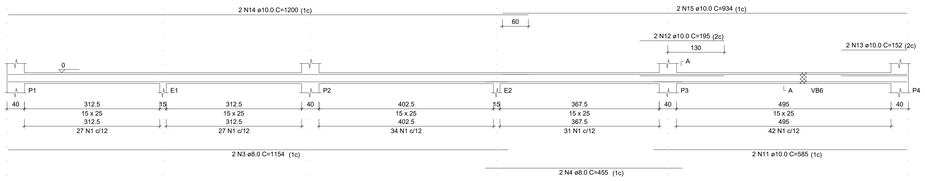
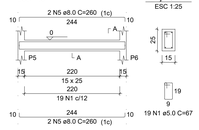
VB1
ESC 1:50



VB2
ESC 1:50



RELAÇÃO DO AÇO

VB1
VB4
VB7

VB2
VB5

VB3
VB6

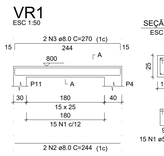
AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	557	67	37319
CA50	2	6.3	4	71	284
	3	8.0	2	1154	2308
	4	8.0	2	455	910
	5	8.0	4	260	1040
	6	8.0	1	106	106
	7	8.0	1	106	106
	8	8.0	2	736	1472
	9	8.0	4	694	2776
	10	8.0	2	710	1420
	11	10.0	2	585	1170
	12	10.0	2	195	390
	13	10.0	2	152	304
	14	10.0	4	1200	4800
	15	10.0	2	934	1868
	16	10.0	2	1160	2320
	17	10.0	1	198	198
	18	10.0	2	980	1960
	19	10.0	2	205	410
	20	10.0	2	153	306
	21	10.0	2	969	1938
	22	10.0	2	713	1426
	23	10.0	2	704	1408
	24	12.5	1	200	200
	25	12.5	2	714	1428
	26	12.5	1	487	487
	27	12.5	2	728	1456

RESUMO DO AÇO

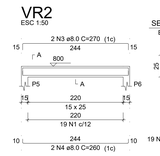
AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	6.3	2.8	0.8
	8.0	101.4	44
	10.0	185	125.5
	12.5	35.7	37.8
CA60	5.0	373.2	63.3
PESO TOTAL (kg)			
CA50	208.1		
CA60	63.3		

Volume de concreto (C-30) = 2.45 m³
Área de forma = 42.48 m²

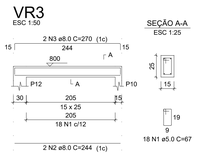
VR1
ESC 1:50



VR2
ESC 1:50



VR3
ESC 1:50



RELAÇÃO DO AÇO

VR1
VR4

VR2
VR5

VR3

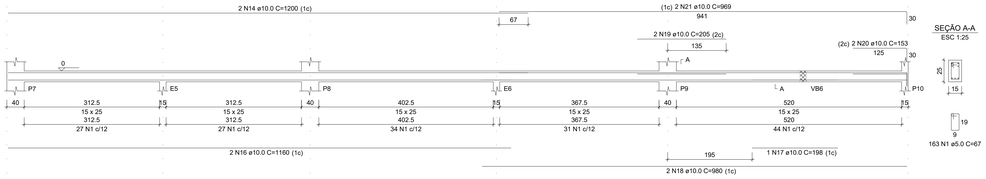
AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	158	67	10586
CA50	2	8.0	4	244	976
	3	8.0	6	270	1620
	4	8.0	2	260	520
	5	8.0	2	710	1420
	6	8.0	4	720	2880
	7	8.0	2	702	1404

RESUMO DO AÇO

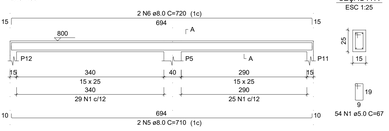
AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	8.0	88.2	38.3
CA60	5.0	105.9	17.9
PESO TOTAL (kg)			
CA50	38.3		
CA60	17.9		

Volume de concreto (C-30) = 0.69 m³
Área de forma = 11.96 m²

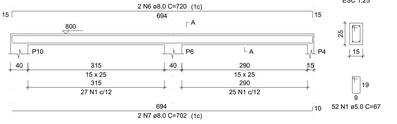
VB3
ESC 1:50



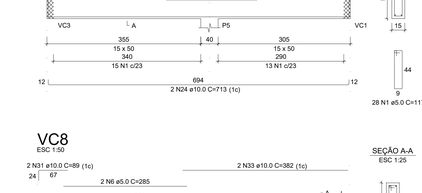
VR4
ESC 1:50



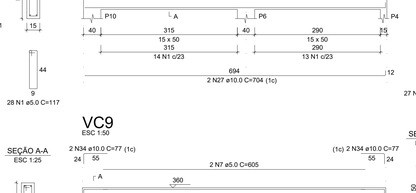
VR5
ESC 1:50



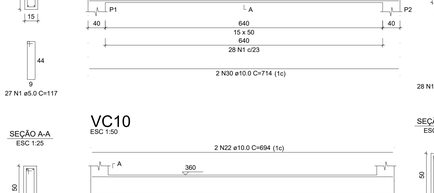
VB4
ESC 1:50



VB5
ESC 1:50

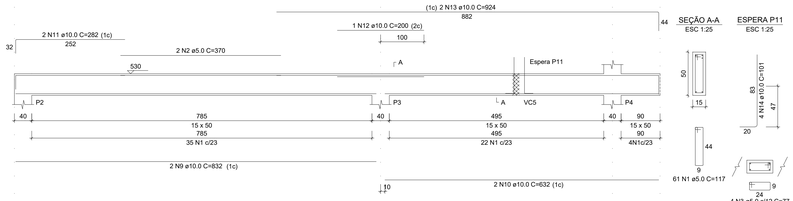


VB6
ESC 1:50

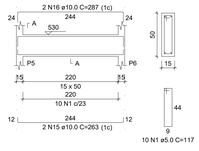


VB7
ESC 1:50

VC1
ESC 1:50



VC2
ESC 1:50



RELAÇÃO DO AÇO

VC1
VC4
VC7
VC10

VC2
VC5
VC8

VC3
VC6
VC9

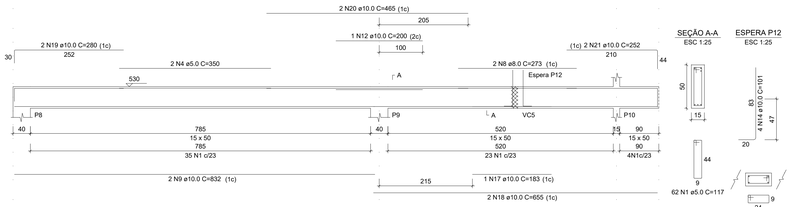
AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	328	117	38376
	2	5.0	2	370	740
	3	5.0	8	77	616
	4	5.0	2	390	780
	5	5.0	2	335	670
	6	5.0	2	605	1210
	7	5.0	2	605	1210
CA50	8	8.0	2	273	546
	9	10.0	4	832	3328
	10	10.0	2	632	1264
	11	10.0	2	282	564
	12	10.0	2	200	400
	13	10.0	2	924	1848
	14	10.0	8	101	808
	15	10.0	2	263	526
	16	10.0	2	287	574
	17	10.0	1	183	183
	18	10.0	2	655	1310
	19	10.0	2	280	560
	20	10.0	2	465	930
	21	10.0	2	252	504
	22	10.0	8	694	5552
	23	10.0	2	749	1498
	24	10.0	2	713	1426
	25	10.0	1	210	210
	26	10.0	2	737	1474
	27	10.0	2	704	1408
	28	10.0	1	457	457
	29	10.0	2	716	1432
	30	10.0	4	714	2856
	31	10.0	4	89	356
	32	10.0	2	342	684
	33	10.0	2	382	764
	34	10.0	4	77	308

RESUMO DO AÇO

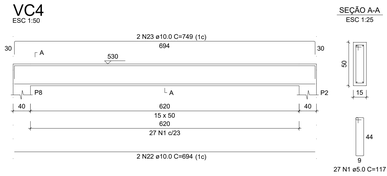
AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	8.0	5.5	2.4
	10.0	312.2	211.8
CA60	5.0	428.6	72.7
PESO TOTAL (kg)			
CA50	214.1		
CA60	72.7		

Volume de concreto (C-30) = 5.58 m³
Área de forma = 83.08 m²

VC3
ESC 1:50



VC4
ESC 1:50

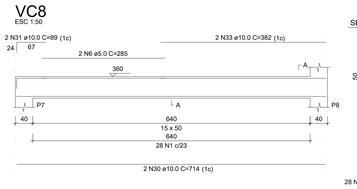


VC5
ESC 1:50

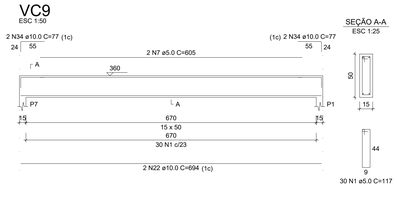
VC6
ESC 1:50

VC7
ESC 1:50

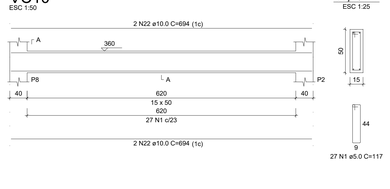
VC8
ESC 1:50



VC9
ESC 1:50

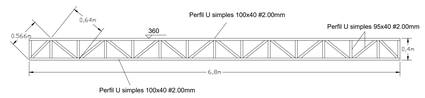


VC10
ESC 1:50



Vigas Metálicas

VC7 - VC8 - VC9



Relação do aço

VC7
VC8

VC9

Perfil	Comprimento (m)	Barras (un)
U 100X40 #2.00	40.8	7
U 95X40 #2.00	44.4	8

NOTAS GERAIS

1 - Conferir todas as medidas na obra antes de iniciar a fabricação das peças;

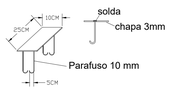
2 - Pintura: todas as peças receberão duas demãos de cromato de zinco e acabamento em esmalte sintético na cor a ser definida;

3 - Aço A36 ou equivalente;

4 - Soldas: eletrodos AWS E-7018.G 3.25MM;

5 - Chumbar nos pilares e vigas de concreto chapas de aço de 3mm com chumbadores J de 20 cm de comprimento nos pontos de ancoragem das vigas metálicas.(TOPO DO P1 E P7, LATERAL P2 E P8)

DETALHE CHUMBADORES



APROVAÇÃO:

PROJETO ESTRUTURAL

OBRA:

COMERCIAL

PROPRIETÁRIA: SESC UNIDADE MORADA DO SOL, ARAGUAÍNA-TO

CPF/CNPJ DO PROPRIETÁRIO: 03.779.012/0001-54

ENDEREÇO DA OBRA: AVENIDA BIJENOS AIRES, SETOR MORADA DO SOL, QUADRA 21, ARAGUAÍNA-TO

OLD ENGENHARIA E CONSTRUTORA

QUADRO DE ÁREAS:

CONSULTAR PROJETO ARQUITETÔNICO

ASSINATURAS:

SERVIÇO SOCIAL DO COMERCIO
SESC
CNPJ 03.779.012/0001-54
MATHEUS SOUSA COSTA:06690995119
Assinado de forma digital por MATHEUS SOUSA COSTA:06690995119
Dados: 2023-04-25 15:51:57 -03'00'

MATHEUS SOUSA COSTA
ENGENHEIRO CIVIL
320251/D-TO

CONTEÚDO:

DETALHAMENTO DAS VIGAS.

PRANCHA

05/06

DATA DE EMISSÃO: 27/02/2023

DESENHISTA: Matheus Costa

ESCALA: Indicada