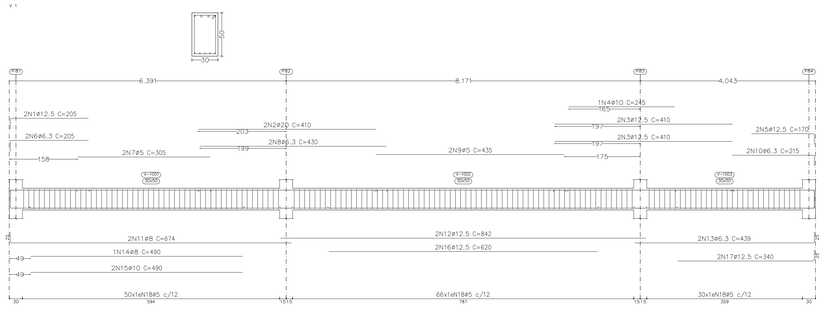
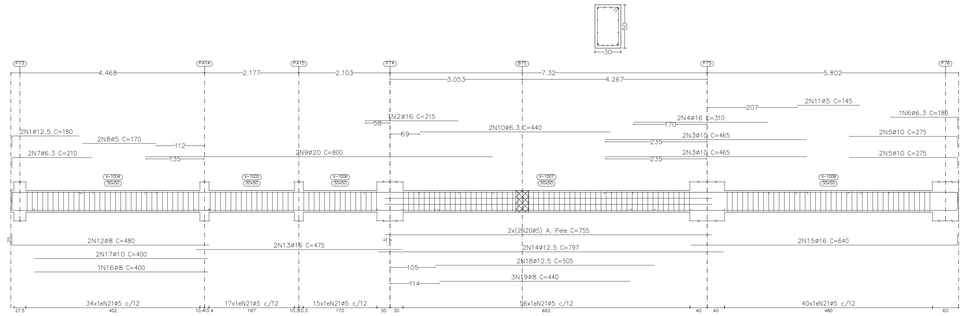
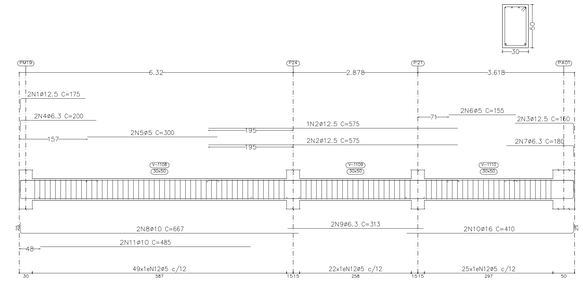
V 1



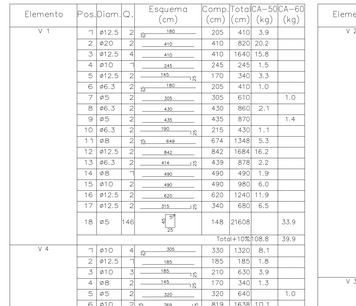
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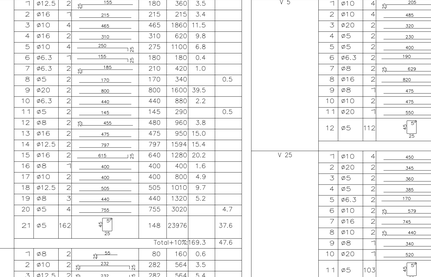
V 27



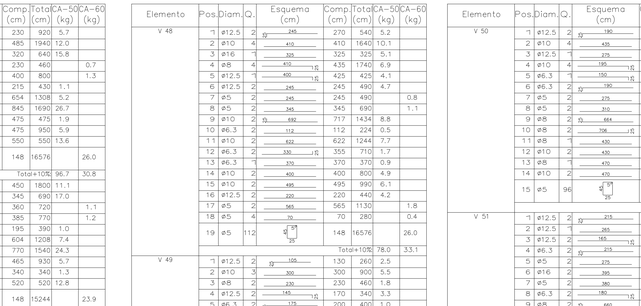
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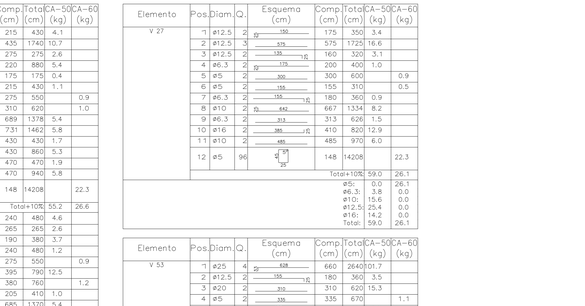
V 35



V 5



V 25



V 34



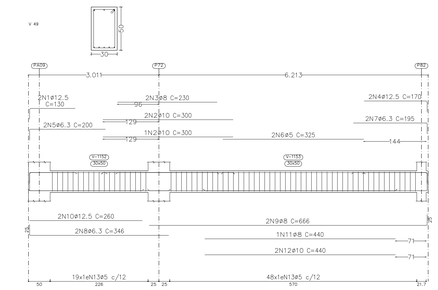
V 48

V 50

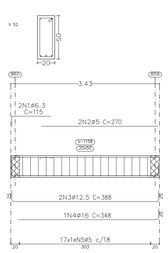
V 51

V 53

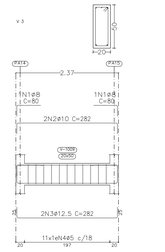
V 49



V 52



V 3



Elemento	Pos.	Diam.	Q.	Esquema (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
V 1	1	ø12.5	2	180	205	410	3.9	
	2	ø20	2	410	410	820	20.2	
	3	ø12.5	4	410	410	1640	15.8	
	4	ø10	1	245	245	245	1.5	
	5	ø12.5	2	165	170	340	3.3	
	6	ø6.3	2	180	205	410	1.0	
	7	ø5	2	305	305	610		1.0
	8	ø6.3	2	430	430	860	2.1	
	9	ø5	2	435	435	870		1.4
	10	ø6.3	2	190	215	430	1.1	
	11	ø8	2	649	674	1348	5.3	
	12	ø12.5	2	842	842	1684	16.2	
	13	ø6.3	2	414	439	878	2.2	
	14	ø8	1	490	490	490	1.9	
	15	ø10	2	490	490	980	6.0	
	16	ø12.5	2	620	620	1240	11.9	
	17	ø12.5	2	315	340	680	6.5	
	18	ø5	146	40 25	148	21608		33.9
					Total+10%		108.8	39.9
V 4	1	ø10	4	305	330	1320	8.1	
	2	ø12.5	1	185	185	185	1.8	
	3	ø10	3	185	210	630	3.9	
	4	ø8	2	145	170	340	1.3	
	5	ø5	2	320	320	640		1.0
	6	ø10	2	769	819	1638	10.1	
	7	ø10	2	550	550	1100	6.8	
	8	ø6.3	1	395	395	395	1.0	
	9	ø5	63	40 25	148	9324		14.6
					Total+10%		36.3	17.2
V 35	1	ø12.5	6	240	265	1590	15.3	
	2	ø20	2	249	275	550	13.6	
	3	ø5	2	460	460	920		1.4
	4	ø6.3	2	270	295	590	1.4	
	5	ø12.5	2	320	980	1960	18.9	
	6	ø12.5	2	615	615	1230	11.8	
	7	ø8	1	535	535	535	2.1	
	8	ø5	71	40 25	148	10508		16.5
					Total+10%		69.4	19.7
					ø5:	0.0		76.8
					ø6.3:	9.7		0.0
					ø8:	11.6		0.0
					ø10:	40.0		0.0
					ø12.5:	16.0		0.0
					ø20:	37.2		0.0
					Total:	214.5		76.8

Elemento	Pos.	Diam.	Q.	Esquema (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
V 2	1	ø12.5	2	155	180	360	3.5	
	2	ø16	1	215	215	215	3.4	
	3	ø10	4	465	465	1860	11.5	
	4	ø16	2	310	310	620	9.8	
	5	ø10	4	250	275	1100	6.8	
	6	ø6.3	2	155	180	180	0.4	
	7	ø6.3	2	185	210	420	1.0	
	8	ø5	2	170	170	340		0.5
	9	ø20	2	800	800	1600	39.5	
	10	ø6.3	2	440	440	880	2.2	
	11	ø5	2	145	145	290		0.5
	12	ø8	2	455	480	960	3.8	
	13	ø16	2	475	475	950	15.0	
	14	ø12.5	2	787	797	1594	15.4	
	15	ø16	2	615	640	1280	20.2	
	16	ø8	1	400	400	400	1.6	
	17	ø10	2	400	400	800	4.9	
	18	ø12.5	2	505	505	1010	9.7	
	19	ø8	3	440	440	1320	5.2	
	20	ø5	4	758	755	3020		4.7
	21	ø5	162	40 25	148	23976		37.6
					Total+10%		169.3	47.6
V 3	1	ø8	2	55	80	160	0.6	
	2	ø10	2	232	282	564	3.5	
	3	ø12.5	2	232	282	564	5.4	
	4	ø5	11	40 25	128	1408		2.2
					Total+10%		10.5	2.4
					ø5:	0.0		50.0
					ø6.3:	4.0		0.0
					ø8:	12.4		0.0
					ø10:	29.3		0.0
					ø12.5:	37.5		0.0
					ø16:	53.2		0.0
					ø20:	43.4		0.0
					Total:	179.8		50.0

Elemento	Pos.	Diam.	Q.	Esquema (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
V 5	1	ø12.5	2	205	230	920	5.7	
	2	ø10	4	485	485	1940	12.0	
	3	ø16	2	320	320	640	15.8	
	4	ø5	2	230	230	460		0.7
	5	ø5	2	400	400	800		1.3
	6	ø6.3	2	190	215	430	1.1	
	7	ø8	2	629	654	1308	5.2	
	8	ø16	2	820	845	1690	26.7	
	9	ø20	1	475	475	475	1.9	
	10	ø10	2	475	475	950	5.9	
	11	ø20	1	550	550	550	13.6	
	12	ø5	112	40 25	148	16576		26.0
					Total+10%		96.7	30.8
V 25	1	ø10	4	450	450	1800	11.1	
	2	ø20	2	345	345	690	17.0	
	3	ø5	2	360	360	720		1.1
	4	ø5	2	385	385	770		1.2
	5	ø6.3	2	170	195	390	1.0	
	6	ø10	2	579	604	1208	7.4	
	7	ø16	2	745	770	1540	24.3	
	8	ø10	2	440	465	930	5.7	
	9	ø8	1	340	340	340	1.3	
	10	ø20	1	520	520	520	12.8	
	11	ø5	103	40 25	148	15244		23.9
					Total+10%		88.7	28.8
V 34	1	ø10	5	265	290	1450	8.9	
	2	ø10	4	205	230	920	5.7	
	3	ø12.5	1	165	190	190	1.8	
	4	ø5	2	325	325	650		1.0
	5	ø10	2	748	798	1596	9.8	
	6	ø10	2	470	470	940	5.8	
	7	ø5	53	40 25	148	7844		12.3
					Total+10%		35.2	14.6
					ø5:	0.0		74.2
					ø6.3:	2.3		0.0
					ø8:	9.3		0.0
					ø10:	85.8		0.0
					ø12.5:	2.0		0.0
					ø16:	56.1		0.0
					ø20:	65.1		0.0
					Total:	220.6		74.2

Elemento	Pos.	Diam.	Q.	Esquema (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
V 48	1	ø12.5	2	105	130	260	2.5	
	2	ø10	3	300	300	900	5.5	
	3	ø8	2	230	230	460	1.8	
	4	ø12.5	2	145	170	340	3.3	
	5	ø6.3	2	175	200	400	1.0	
	6	ø5	2	325	325	650		1.0
	7	ø6.3	2	170	195	390	1.0	
	8	ø6.3	2	321	346	692	1.7	
	9	ø8	2	641	666	1332	5.3	
	10	ø12.5	2	260	260	520	5.0	
	11	ø8	1	440	440	440	1.7	
	12	ø10	2	440	440	880	5.4	
	13	ø5	67	40 25	148	9916		15.6
					Total+10%		37.6	18.3
					ø5:	0.0		51.4
					ø6.3:	7.4		0.0
					ø8:	17.3		0.0
					ø10:	53.4		0.0
					ø12.5:	31.9		0.0
					ø16:	5.6		0.0
					Total:	115.6		51.4

Elemento	Pos.	Diam.	Q.	Esquema (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
V 50	1	ø12.5	2	190	215	430	4.1	
	2	ø10	4	435	435	1740	10.7	
	3	ø12.5	1	275	275	275	2.6	
	4	ø10	4	190	220	880	5.4	
	5	ø6.3	1	150	175	175	0.4	
	6	ø6.3	2	190	215	430	1.1	
	7	ø5	1	275	275	550		0.9
	8	ø5	1	310	310	620		1.0
	9	ø8	2	684	689	1378	5.4	
	10	ø8	2	708	731	1462	5.8	
	11	ø8	1	430	430	430	1.7	
	12	ø10	2	430	430	860	5.3	
	13	ø8	1	470	470	470	1.9	
	14	ø10	2	470	470	940	5.8	
	15	ø5	96	40 25	148	14208		22.3
					Total+10%		55.2	26.6
V 51	1	ø12.5	2	215	240	480	4.6	
	2	ø12.5	1	265	265	265	2.6	
	3	ø12.5	2	165	190	380	3.7	
	4	ø6.3	2	213	240	480	1.2	
	5	ø5	2	275	275	550		0.9
	6	ø16	2	395	395	790	12.5	
	7	ø5	2	380	380	760		1.2
	8	ø6.3	2	180	205	410	1.0	
	9	ø8	2	660	685	1370	5.4	
	10	ø10	2	781	781	1562	9.6	
	11	ø8	1	430	430	430	1.7	
	12	ø10	2	430	430	860	5.3	
	13	ø10	3	550	550	1650	10.2	
	14	ø5	100	40 25	148	14800		23.2
					Total+10%		63.6	27.8
V 52	1	ø6.3	2	90	115	230	0.6	
	2	ø5	2	270	270	540		0.8
	3	ø12.5	2	338	388	776	7.5	
	4	ø16	1	323	348	348	5.5	
	5	ø5	17	40 25	128	2176		3.4
					Total+10%		15.0	4.6
					ø5:	0.0		59.0
					ø6.3:	4.7		0.0
					ø8:	24.1		0.0
					ø10:	57.5		0.0
					ø12.5:	27.6		0.0
					ø16:	19.9		0.0
					Total:	133.8		59.0

Elemento	Pos.	Diam.	Q.	Esquema (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
V 27	1	ø12.5	2	150	175	350	3.4	
	2	ø12.5	3	575	575	1725	16.6	
	3	ø12.5	2	135	160	320	3.1	
	4	ø6.3	2	175	200	400	1.0	
	5	ø5	2	300	300	600		0.9
	6	ø5	1	155	155	310		0.5
	7	ø6.3	2	155	180	360	0.9	
	8	ø10	2	642	667	1334	8.2	
	9	ø6.3	2	313	313	626	1.5	
	10	ø16	2	385	410	820	12.9	
	11	ø10	2	485	485	970	6.0	
	12	ø5	96	40 25	148	14208		22.3
					Total+10%		59.0	26.1
					ø5:	0.0		26.1
					ø6.3:	3.8		0.0
					ø10:	15.6		0.0
					ø12.5:	25.4		0.0
					ø16:	14.2		0.0
					Total:	59.0		26.1

Elemento	Pos.	Diam.	Q.	Esquema (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
V 53	1	ø25	4	628	660	2640	101.7	
	2	ø12.5	2	155	180	360	3.5	
	3	ø20	2	310	620	1240	15.3	
	4	ø5	2	335	670			1.1
	5	ø6.3	2	180	205	410	1.0	
	6	ø6.3	2	391	416	832	2.0	
	7	ø10	2	747	772	1544	9.5	
	8	ø10	2	500	500	1000	6.2	
	9	ø6.3	1	430	430	430	1.1	
	10	ø5	89	40 25	148	13172		20.7
					Total+10%		154.3	24.0
					ø5:	0.0		24.0
					ø6.3:	4.5		0.0
					ø10:	17.2		0.0
					ø12.5:	3.8		0.0
					ø20:	16.9		0.0
					ø25:	111.9		0.0
					Total:	154.3		24.0

TÉRREO_cota 0.00
Desenho de vigas
Concreto: C35, em geral
Aço das barras: CA-50 e CA-60
Aço dos estribos: CA-50 e CA-60
Escala vigas 1:50
Escala seções 1:25
Escala aberturas 1:25

VERSÃO	DATA	DES.	VER.	APR.	DESCRIÇÃO
03	05/2022	D.N.	S.F.	S.F.	REVISÃO GERAL
02	03/2022	D.N.	S.F.	S.F.	REVISÃO GERAL
01	10/2021	S.F.	S.F.	S.F.	REVISÃO GERAL
00	08/2021	S.F.	S.F.	S.F.	EMISSÃO INICIAL

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COORDENADOR ENGENHARIA: Eng. Samuel Isaque P. Ferreira, CREA: 507054180, ART: 28027230211051413

RESPONSÁVEL PELO PROJETO: Eng. Samuel Isaque P. Ferreira, CREA: 507054180, ART: 28027230211051413

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Assunto
CONSTRUÇÃO DO HOSPITAL GERAL DE ARUJÁ

Projeto: CONSTRUÇÃO
Disciplina: ESTRUTURA
Etapa: PROJETO EXECUTIVO
Endereço: AVENIDA MAJOR BENJAMIN FRANCO, CENTRO - ARUJÁ - SP
Nome do Arquivo: IN_061_01_PE_EST_V00-ESTRUTURA GERAL HOSPITAL ARUJÁ V04_JUNHO 2022.dwg
Requisitante: SECRETARIA MUNICIPAL DE OBRAS

APROVADO

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Secretário Municipal de Obras

ENG. DÉBORA FABRO VALENÇO LOUREIRO
Diretora Técnica do Departamento de Obras

ARQ. GABRIELA ITO CARDOSO DE MORAES
Arquiteta de Projetos

Título: PISO TÉRREO
DESENHO DE VIGAS

Folha: 33 | 85

Código do SGPU: PB SMO 001 - 01/01

Data: MAIO/2022

Escala: 1/50

IN_061_01_PE_EST_V00-ESTRUTURA GERAL HOSPITAL ARUJÁ V04_JUNHO 2022.dwg

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