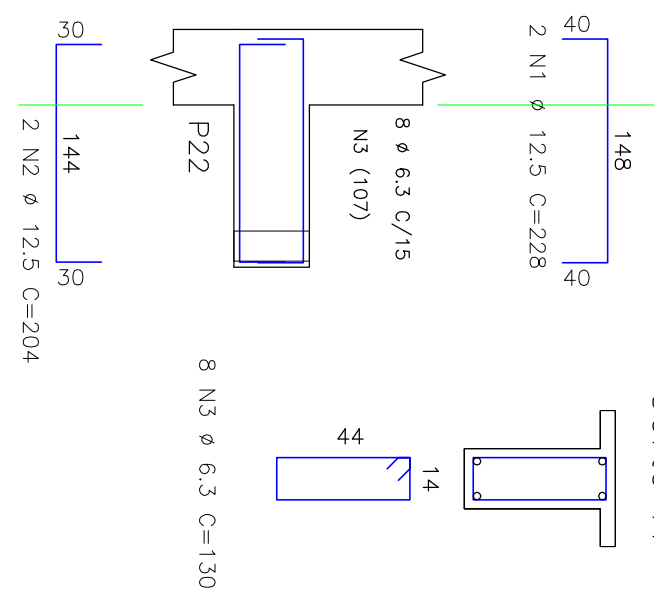
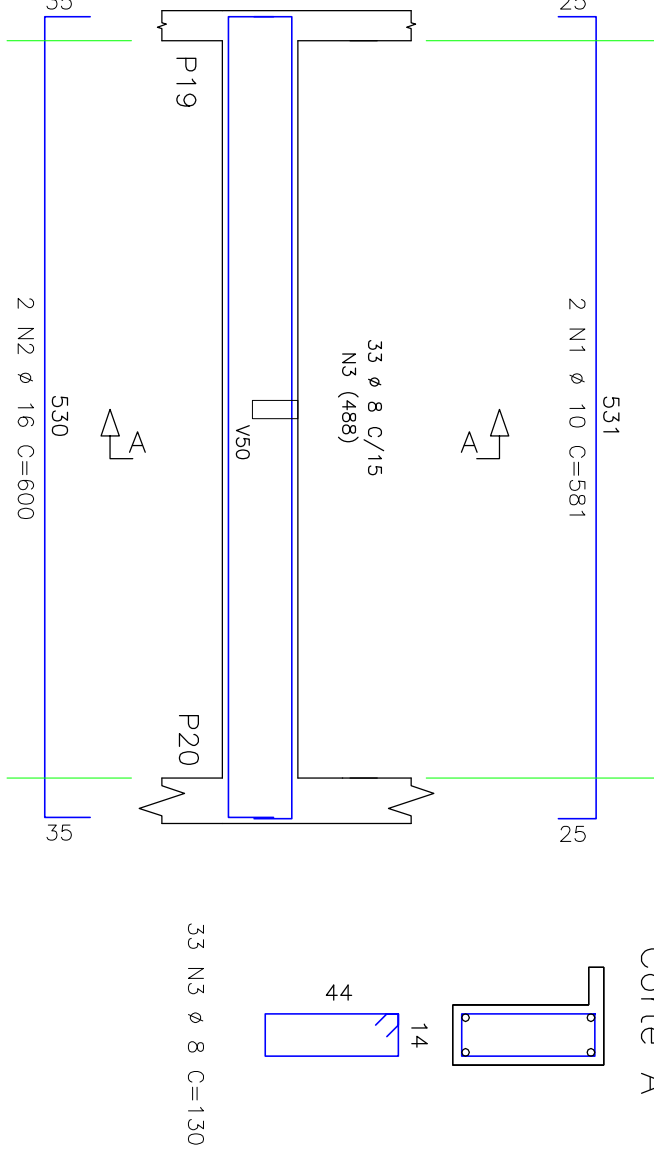
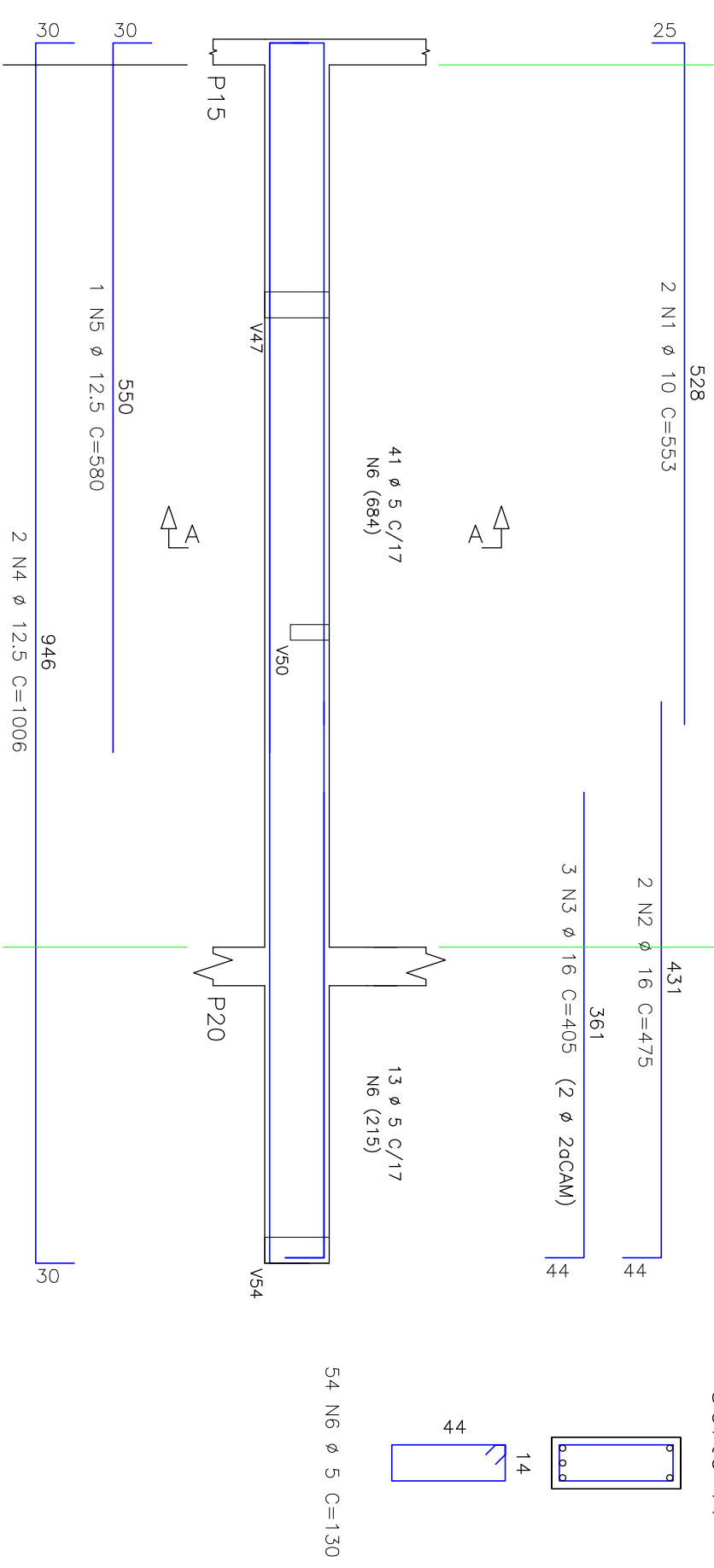
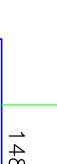
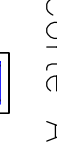
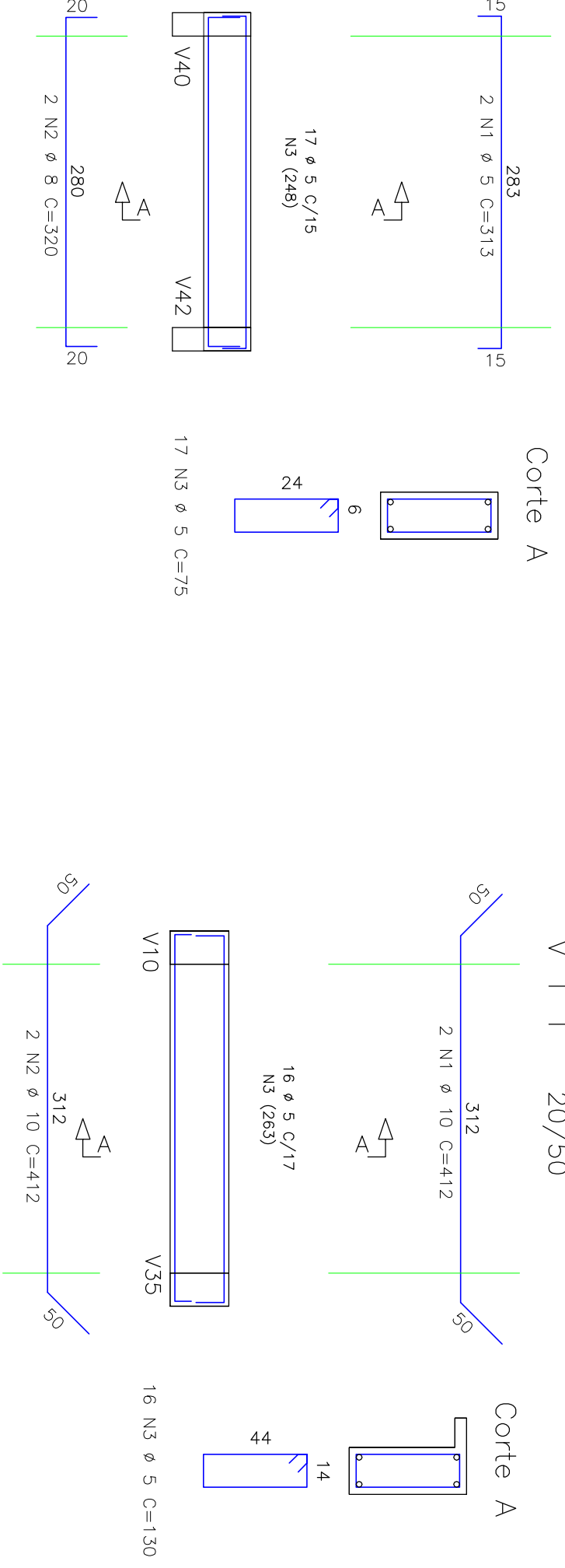
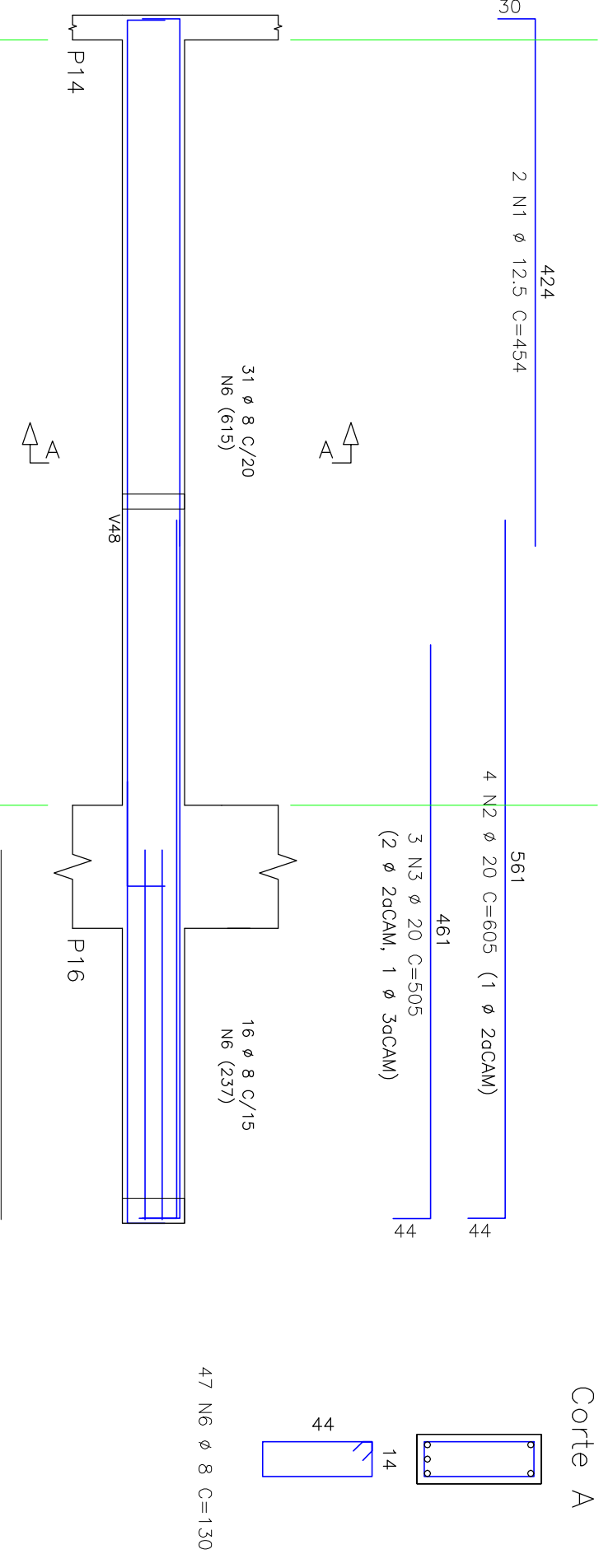
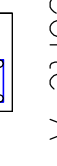
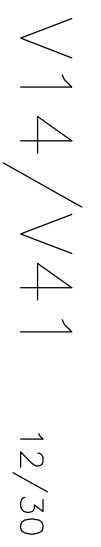
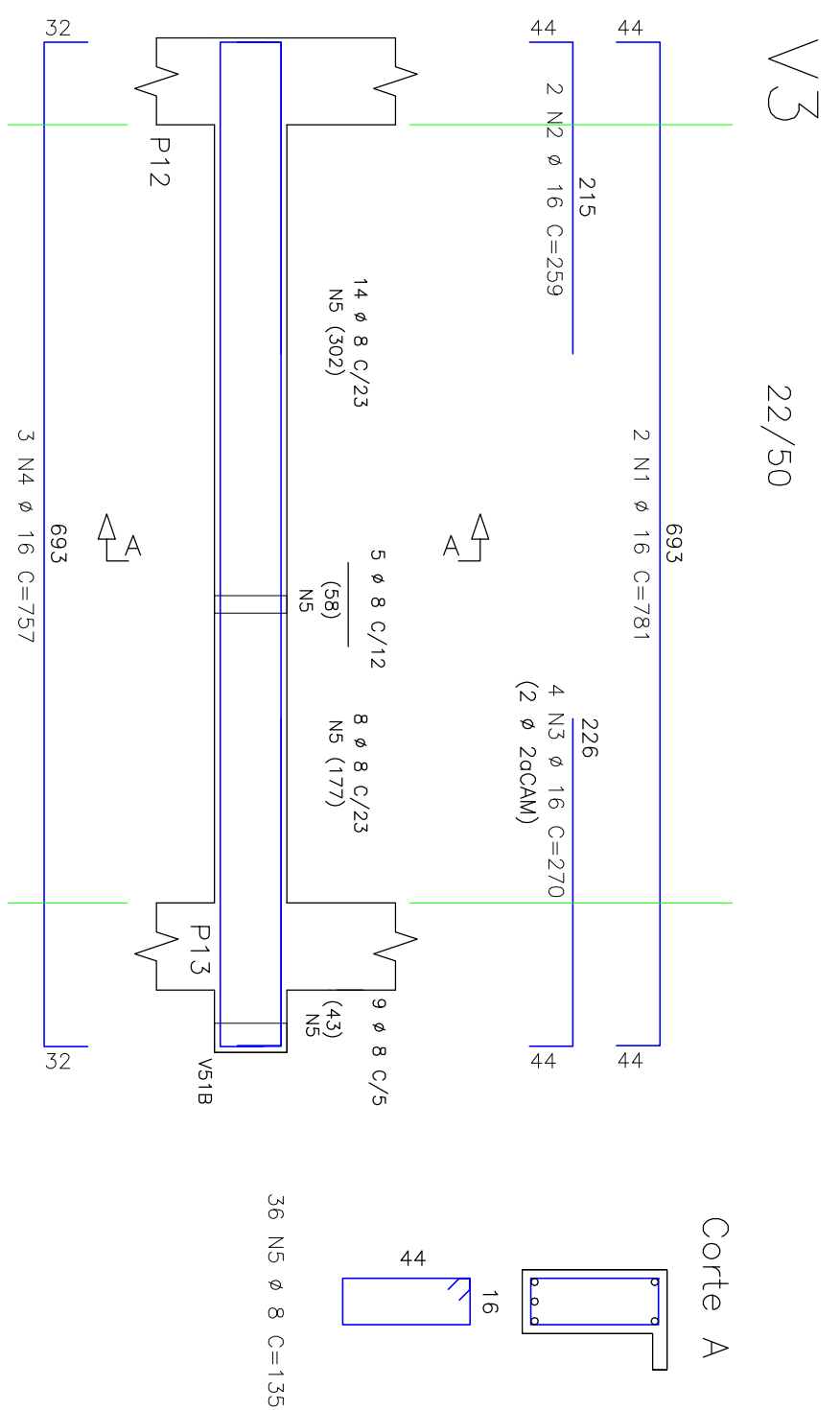
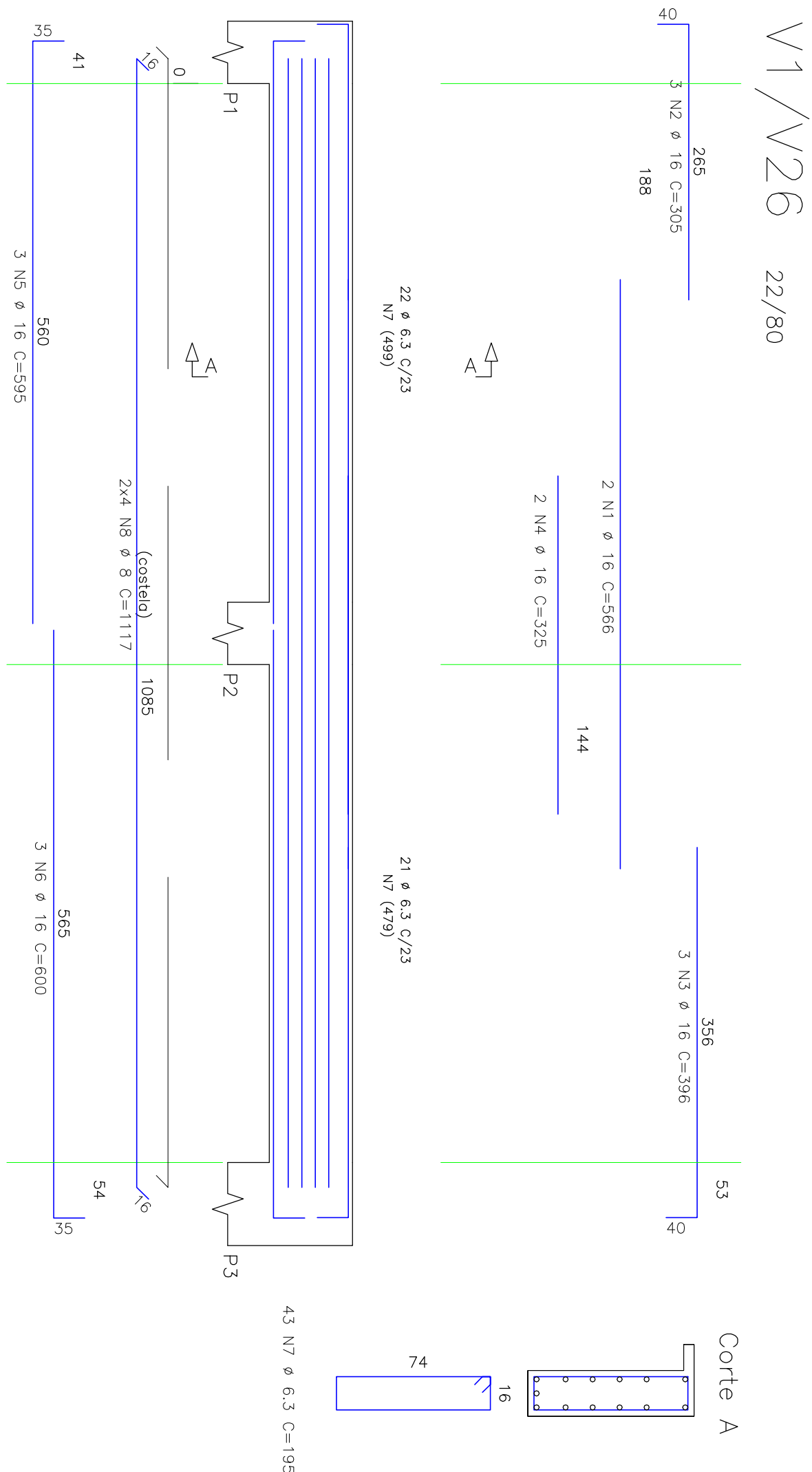




V3	AQO		Pos	Bit	QUANT	COMPONENTO	
	UNIT	TOTAL					
			(mm)			(cm)	(cm)
V3	50	1	16	2	361	162	
	50	2	16	2	259	515	
	50	3	16	4	270	1080	
	50	4	16	3	757	2271	
	50	5	8	36	135	4680	
V6	50	1	12,5	2	464	908	
	50	2	20	4	605	2420	
	50	3	20	3	565	1515	
	50	4	20	3	585	1155	
	50	5	16	3	766	2358	
V7/V32	50	1	8	47	130	6110	
	50	2	8	4	297	1185	
	50	3	10	4	55,3	22,12	
	50	4	16	4	47,5	1900	
	50	5	16	4	1405	2430	
V8/V33	50	1	12,5	2	464	908	
	50	2	20	4	605	2420	
	50	3	20	3	565	1515	
	50	4	16	3	766	2358	
	50	5	12,5	2	580	1160	
V10/V35	50	1	10	4	151	1040	
	50	2	16	4	580	2400	
	50	3	8	66	130	8580	
	50	4	16	4	600	2400	
	50	5	16	1	350	2080	
V13/V38	50	1	12,5	2	258	812	
	50	2	20	4	204	812	
	50	3	6,3	16	1,30	2080	
	50	4	12,5	2	258	812	
	50	5	16	1	350	2080	
V14/V41	50	1	5	4	31,3	1282	
	50	2	5	4	31,3	1282	
	50	3	5	4	31,3	1282	
	50	4	5	4	31,3	1282	
	50	5	5	4	31,3	1282	
V15/V40	50	1	12,5	6	64,3	3658	
	50	2	12,5	6	64,3	3658	
	50	3	12,5	6	64,3	3658	
	50	4	12,5	6	64,3	3658	
	50	5	12,5	6	64,3	3658	
V20/V44	50	1	20	22	480	10780	
	50	2	12,5	8	185	480	
	50	3	12,5	8	185	480	
	50	4	8	184	155	28520	
	50	5	8	184	155	28520	
V21/V45	50	1	10,5	4	459	1836	
	50	2	10,5	4	459	1836	
	50	3	10,5	4	459	1836	
	50	4	10,5	4	459	1836	
	50	5	10,5	4	459	1836	
V22/V46	50	1	10	4	442	1776	
	50	2	10	4	442	1776	
	50	3	10	4	442	1776	
	50	4	10	4	442	1776	
	50	5	10	4	442	1776	
V23/V47	50	1	12,5	6	84,5	5070	
	50	2	12,5	6	84,5	5070	
	50	3	8	2	470	940	
	50	4	5	44	130	5720	
	50	5	5	44	130	5720	
V1/V26	50	1	16	4	566	2284	
	50	2	16	4	306	1236	
	50	3	16	4	306	1236	
	50	4	16	4	306	1236	
	50	5	16	4	306	1236	
V1/V32	50	1	16	4	566	2284	
	50	2	16	4	306	1236	
	50	3	16	4	306	1236	
	50	4	16	4	306	1236	
	50	5	16	4	306	1236	
V11	50	1	10	2	412	824	
	50	2	10	2	412	824	
	50	3	9	16	130	2080	
	50	4	9	16	130	2080	
	50	5	9	16	130	2080	
V24/N34	50	1	12,5	2	359	698	
	50	2	16	2	590	1180	
	50	3	16	2	590	1180	
	50	4	16	2	590	1180	
	50	5	6,3	40	135	5400	

RESUMO AÇO CA 50-60				
AÇO	BIT	CM	CA	PESO
	(mm)	(m)		(kg)
60	5,2			92
50	6,3	24,3		61
50	8	75,2		305
50	10	109		69
50	12,5	244		244
50	16	357		619
50	20	147		368
Peso Total	60 =			92 kg
Peso Total	50 =			1665 kg

OBSERVAÇÃO:			
ALTERAÇÃO	DATA	REVISÃO	ASSUNTO

ROPLAN
FABRICACIÓN DE PROYECTOS

ROPLAN PLACAMENTO DE PROYECTOS

R. Cursino Amorante, 988, Duque de Coxas, Ciudad / MT, CEP: 78.045-330
Fone / fax: (65) 3322 - 3869 aquat@aquatroprojetos.com
www.aquatprojetos.com

Projeto Executivo	
Projeto de Estrutura de Concreto Armado	
Proprietário:	UNIRIO - UNIVERSIDADE FEDERAL DO ESTADO DO RIO DE JANEIRO
Local:	AV. PALSTER, 458, URCA, RIO DE JANEIRO-RJ
Autor do Projeto:	Co-autores do Projeto:
LUIZO ROBERTO DE ALMEIDA	ANDRÉ LUIZ SPANOS
DESENHADO CIVIL: 5874/0-7R	DESENHADO CIVIL: 5874/0-7R
	MARIO ANDRÉ DE AMORIM PALMA
	DESENHADO CIVIL: 5874/0-07/07