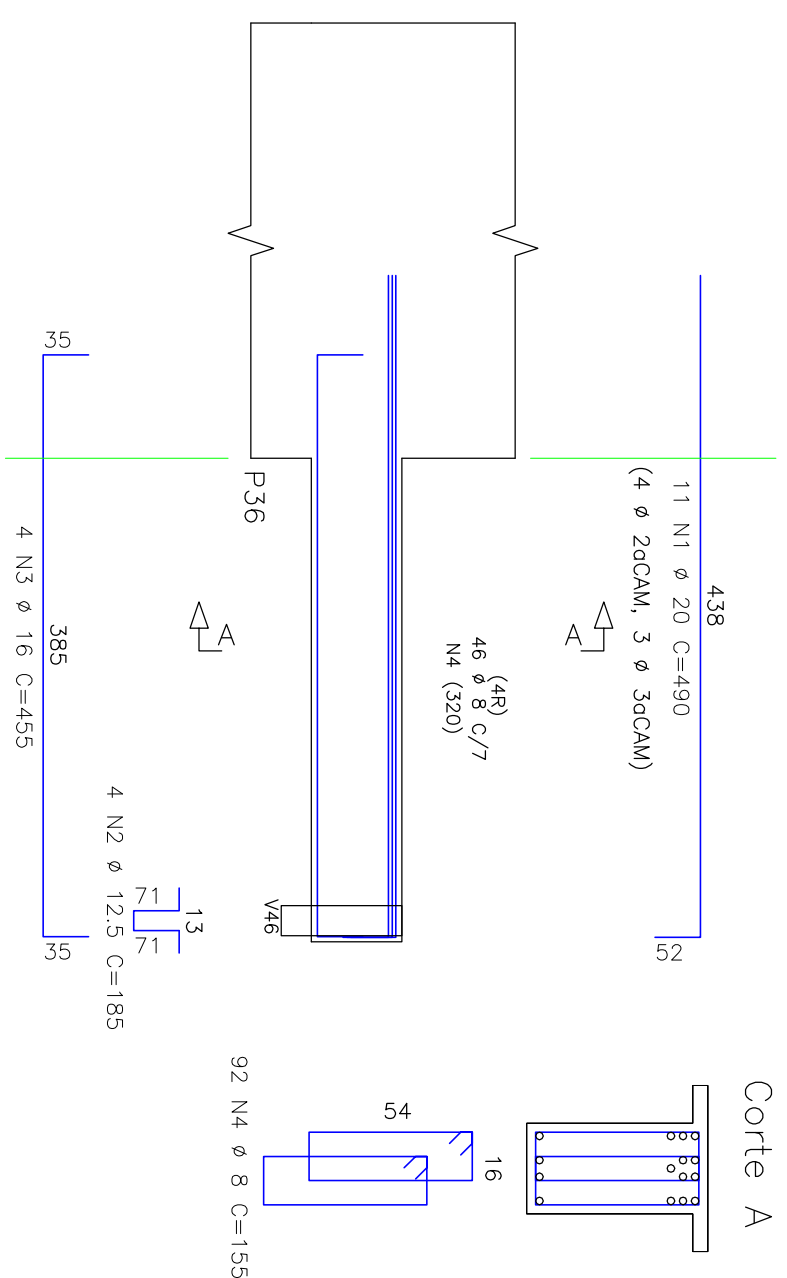
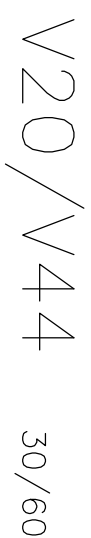
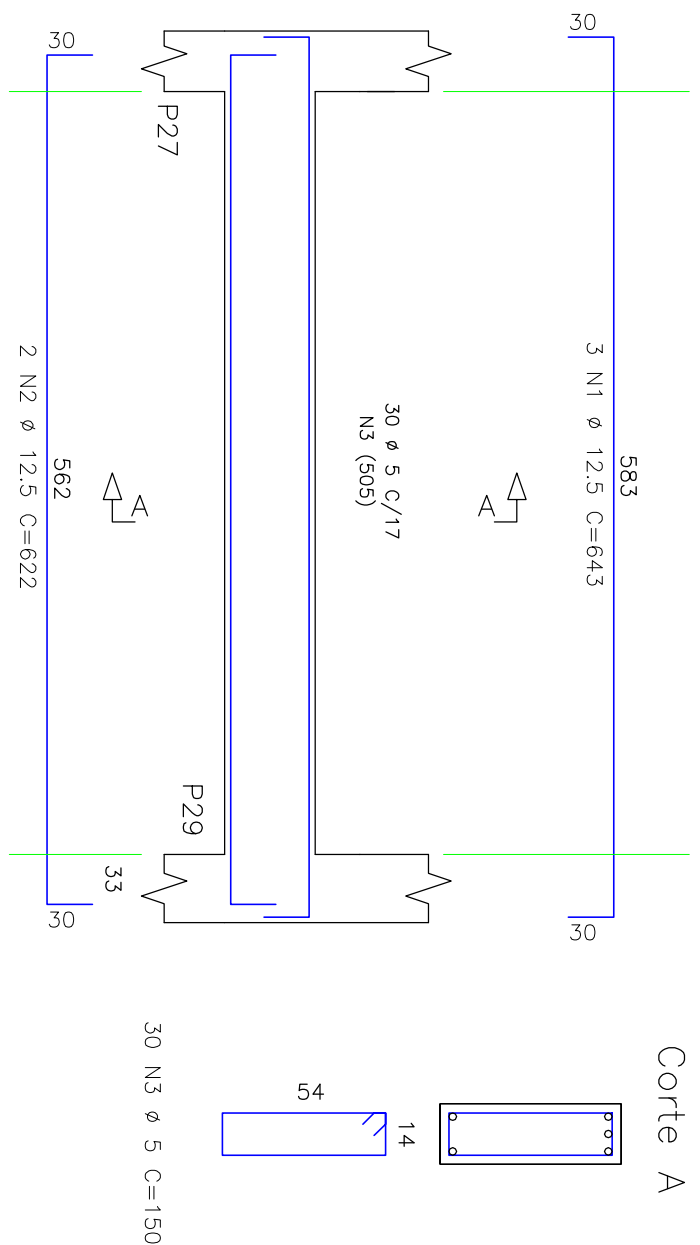
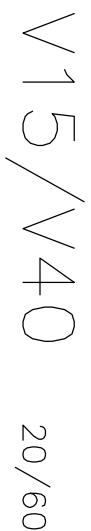
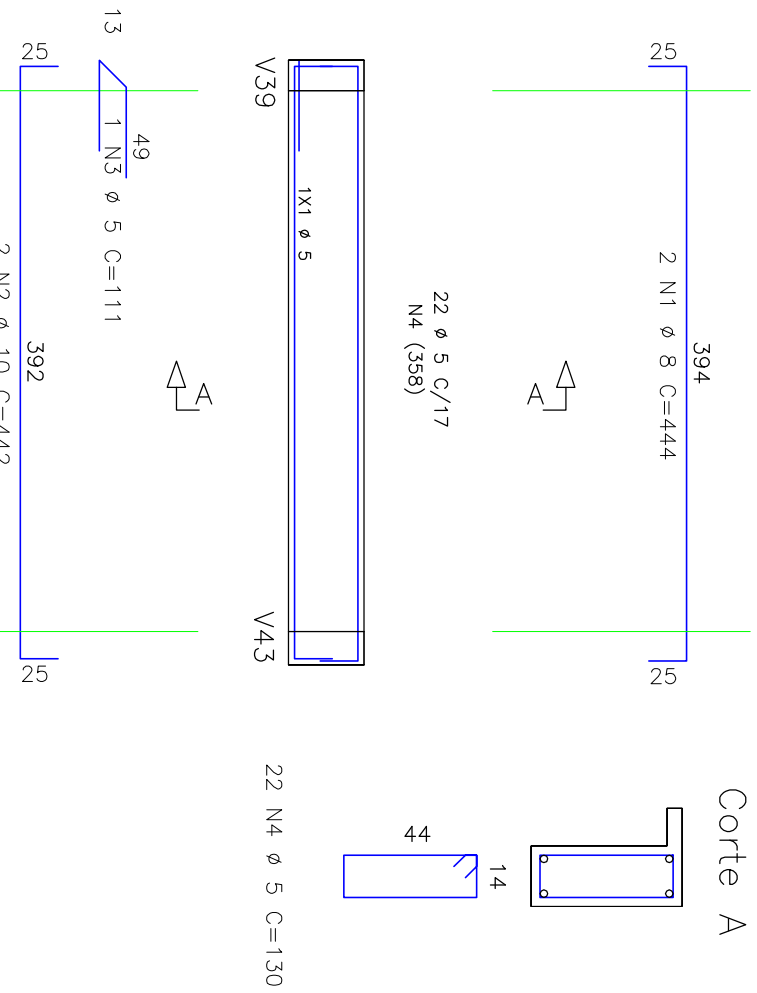
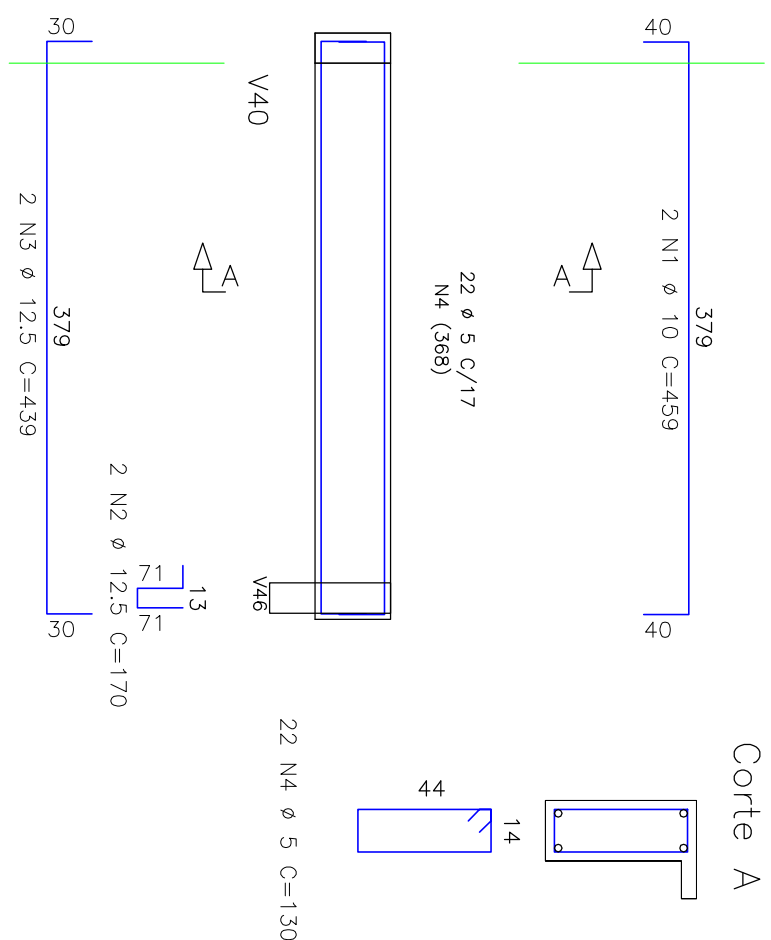
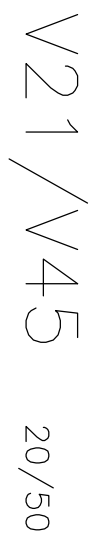
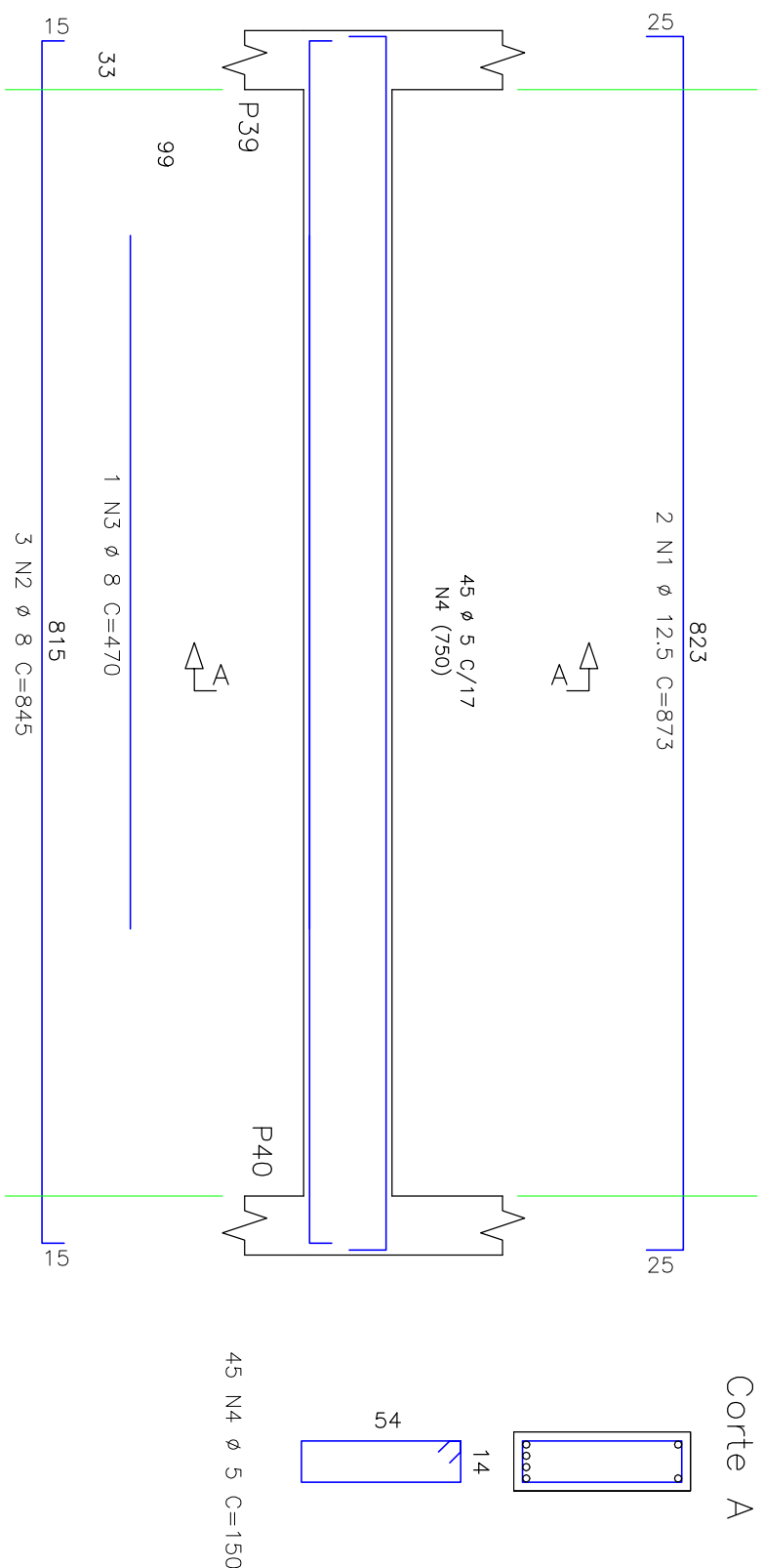
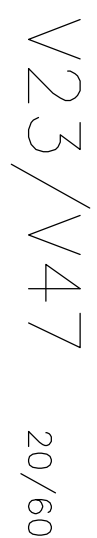
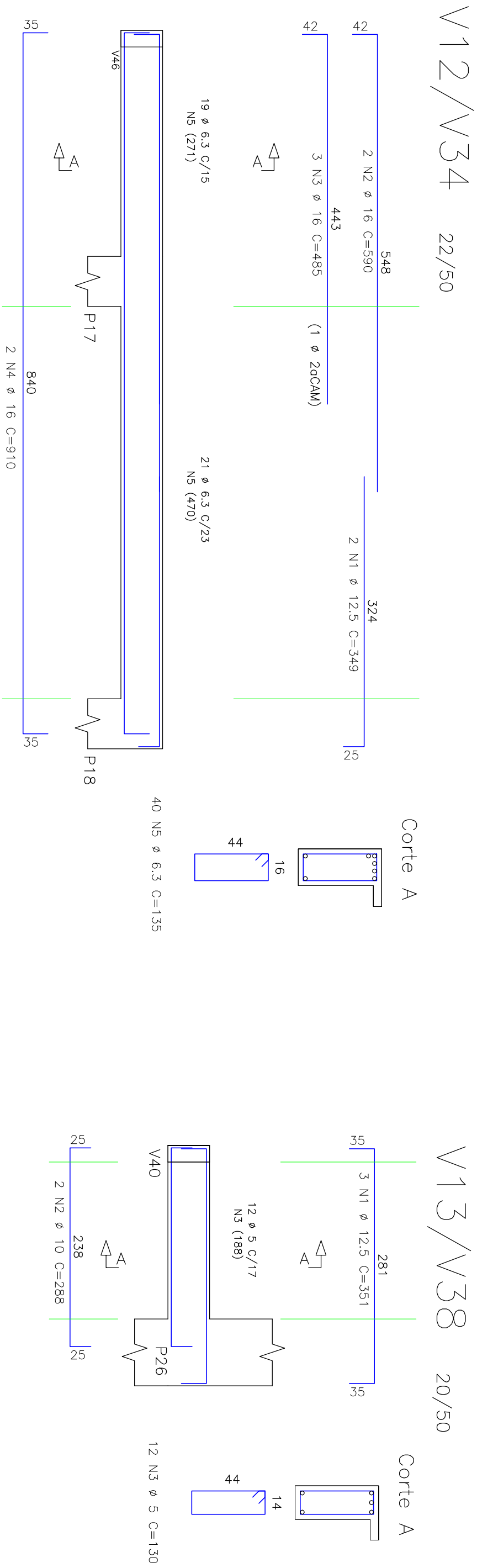




	ACO	Pos	BIT	QUANT	COMPONENTO	
					UNIT	TOTAL
V3			(mm)		(cm)	(cm)
	50	1	16	2	781	162
	50	3	16	2	259	148
	50	3	16	4	270	1080
	50	4	16	3	757	2271
V6	50	5	8	36	135	4860
	50	1	12,5	2	464	908
	50	2	20	4	695	2420
	50	3	70	3	505	1515
	50	5	16	3	756	2358
V7/V32	50	5	16	3	756	2358
	50	6	8	47	130	6110
	50	7	8	47	130	6110
	50	8	8	47	130	6110
	50	8	8	47	130	6110
V8/V33	50	1	10	4	55,3	2212
	50	2	16	4	475	1900
	50	3	16	4	1405	2430
	50	5	12,5	2	580	1160
	60	6	5	108	151	10400
V8/V33	50	1	10	4	581	2322
	50	2	16	4	600	2400
	50	3	8	66	130	8580
	50	5	16	1	350	2080
	60	6	16	1	350	8580
V10/V35	50	1	12,5	4	258	812
	50	2	12,5	4	204	812
	50	3	6,5	16	1	2080
	50	5	12,5	4	204	812
	60	6	16	1	350	8580
V13/V38	50	1	10	4	581	2322
	50	2	16	4	600	2400
	50	3	8	66	130	8580
	50	5	16	1	350	2080
	60	6	16	1	350	8580
V14/V41	50	1	10	4	581	2322
	50	2	16	4	600	2400
	50	3	8	66	130	8580
	50	5	16	1	350	2080
	60	6	16	1	350	8580
V15/V40	50	1	12,5	4	258	812
	50	2	12,5	4	204	812
	50	3	5	34	75	2550
	50	5	5	34	75	2550
	60	6	16	1	350	8580
V20/V44	50	1	20	22	440	10780
	50	2	12,5	8	145	480
	50	3	12,5	8	145	480
	50	4	8	184	155	28500
	60	5	5	184	155	28500
V21/V45	50	1	10,5	4	459	1836
	50	2	12,5	4	439	1756
	50	3	12,5	4	439	1756
	50	4	8	14	130	5720
	60	5	5	44	130	5720
V22/V46	50	1	10	4	442	1776
	50	2	16	4	442	1776
	50	3	5	4	111	222
	50	4	5	4	111	222
	60	5	5	44	130	5720
V23/V47	50	1	12,5	4	813	3362
	50	2	16	4	845	5070
	50	3	8	2	470	940
	50	4	8	2	470	940
	60	5	5	90	150	13500
V1/V26	50	1	16	4	556	2284
	50	2	16	4	305	1830
	50	3	16	4	396	2376
	50	5	16	4	595	3570
	50	6	16	4	595	3570
V11	50	1	8	6,3	86	195
	50	2	8	6,3	86	195
	50	3	8	6,3	86	195
	50	4	8	6,3	86	195
	60	5	16	11,7	1672	
V24/V34	50	1	10	2	412	824
	50	2	10	2	412	824
	50	3	16	16	16	2080
	50	4	16	16	16	2080
	60	5	16	16	16	2080
V3	50	1	12,5	2	349	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	COMPR	PESO
	(mm)	(m)	(kg)
60	5	572	92
50	6,3	243	61
50	8	762	305
50	10	109	69
50	12,5	50	244
50	16	387	619
50	20	147	368
Peso Total	60 =		92 kg
Peso Total	50 =		1665 kg

OBSERVAÇÃO:			
ALTERAÇÃO	DATA	REVISÃO	ASSUNTO

 ROPLAN PLANALAMENTO DE PROJETOS	PROPIA PLANEJAMENTO DE PROJETOS R. Curso Amaranite, 988, Duque de Caxias, Cuiabá / MT , CEP 78.045-330 fone / fax: (65) 3322 - 3669 aquatro@aquatroprojetos.com www.aquatroprojetos.com
Propriedade: UNIRIO - UNIVERSIDADE FEDERAL DO ESTADO DO RIO DE JANEIRO Local: AV. PALUSTER, 468, URCA, RIO DE JANEIRO-RJ	PROJETO EXECUTIVO PROJETO DE ESTRUTURA DE CONCRETO ARMADO
Projeto: Lúcio Roberto de Almeida Desenhos: OUY / 004.319/07	Co-autores do Projeto: ANDRÉ LUIZ SRAMOS Desenhos OUY / 004.319/07 MÁRIO ANDRÉ DE ANJOSIM PALMA Desenhos OUY / 004.319/07/77