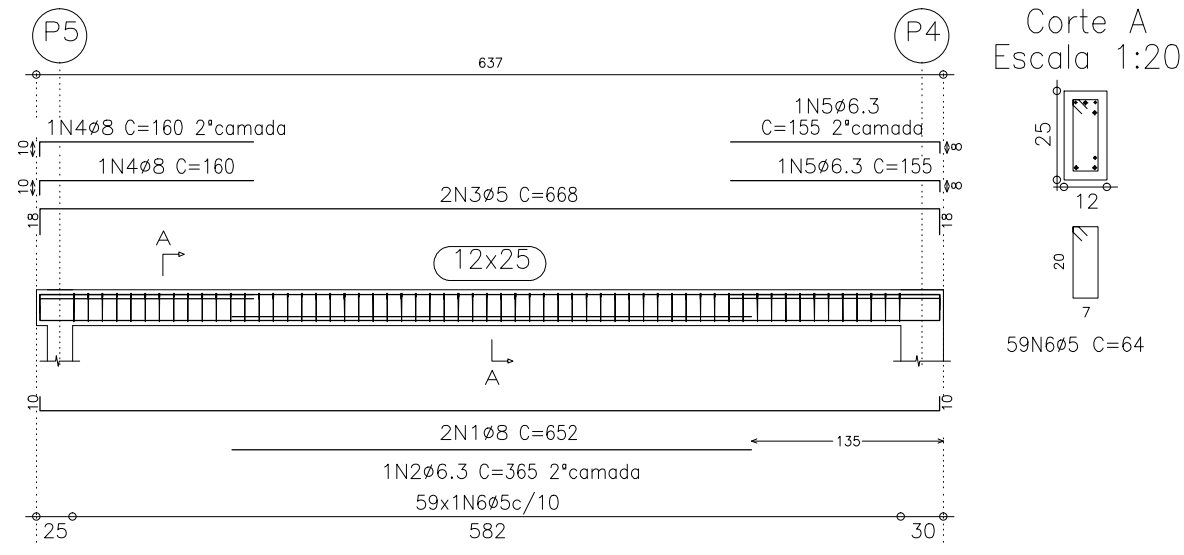


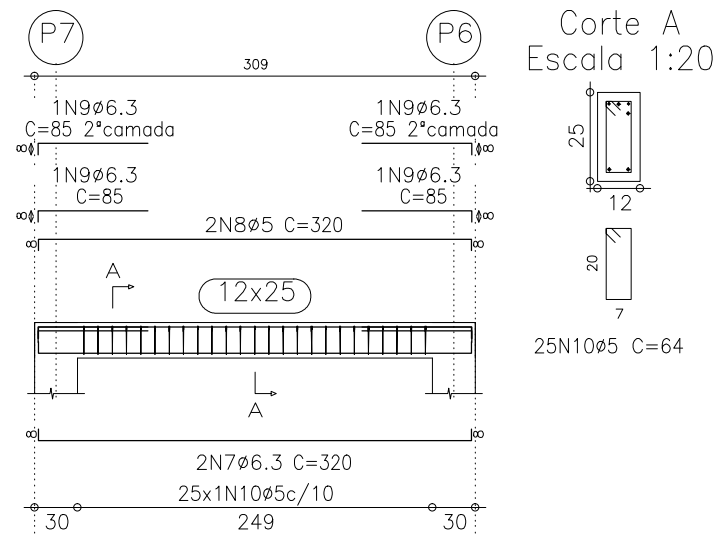
V 1  
Escala 1:50



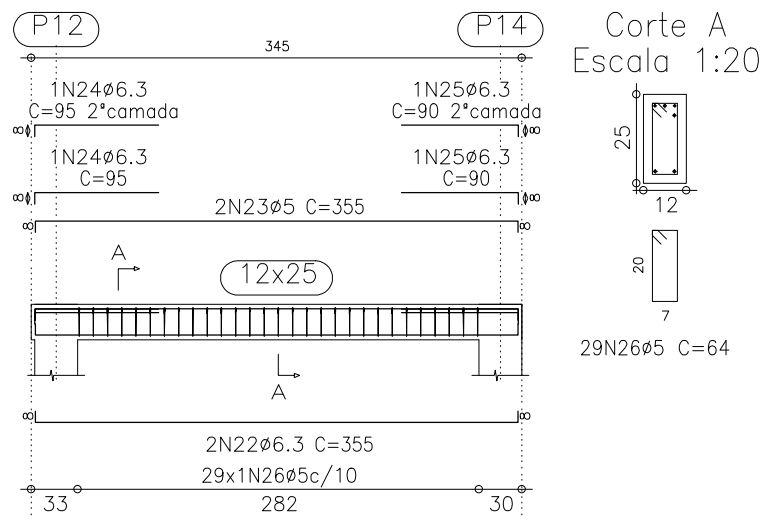
Cobertura  
Desenho de vigas  
Concreto: C20, em geral  
Aço: CA-50-A e CA-60-B  
Escala vigas: 1:50  
Escala seções: 1:20

Resumo Aço Cobertura Vigas	Comp. total (m)	Peso+10% (kg)	Total
CA-50-A ø6.3	171.1	47	
ø8	84.2	36	83
CA-60-B ø5	610.9	106	106
Total			189

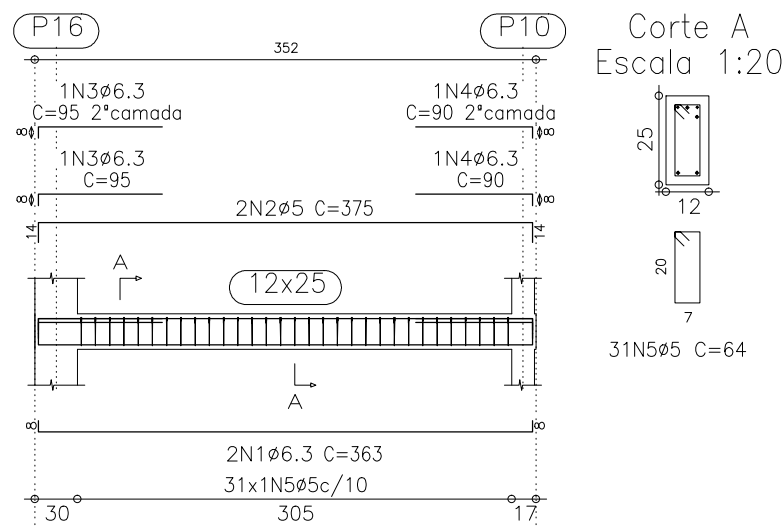
V 2  
Escala 1:50



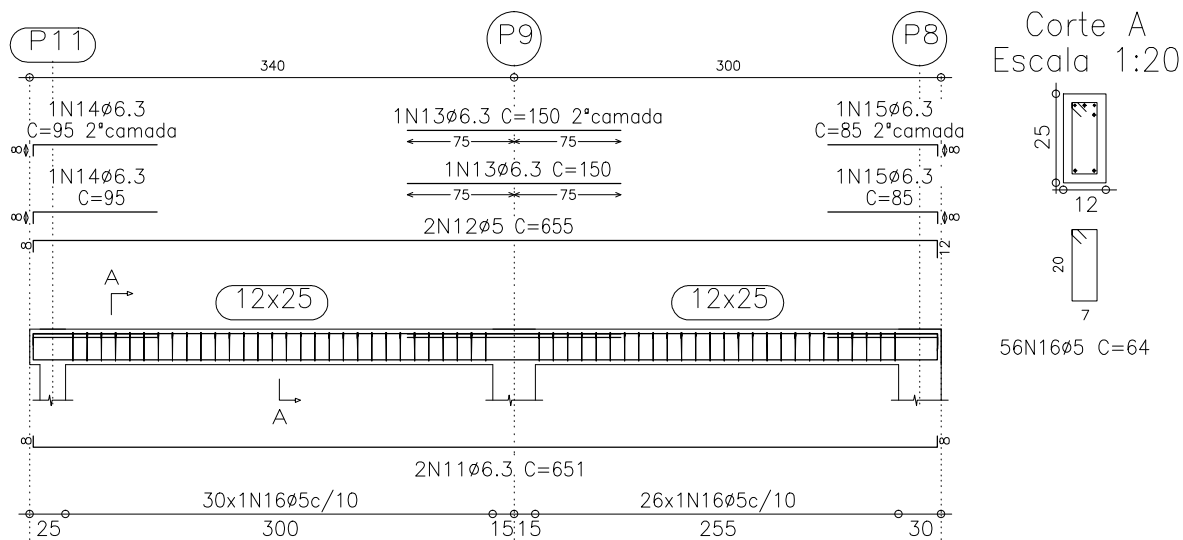
V 5  
Escala 1:50



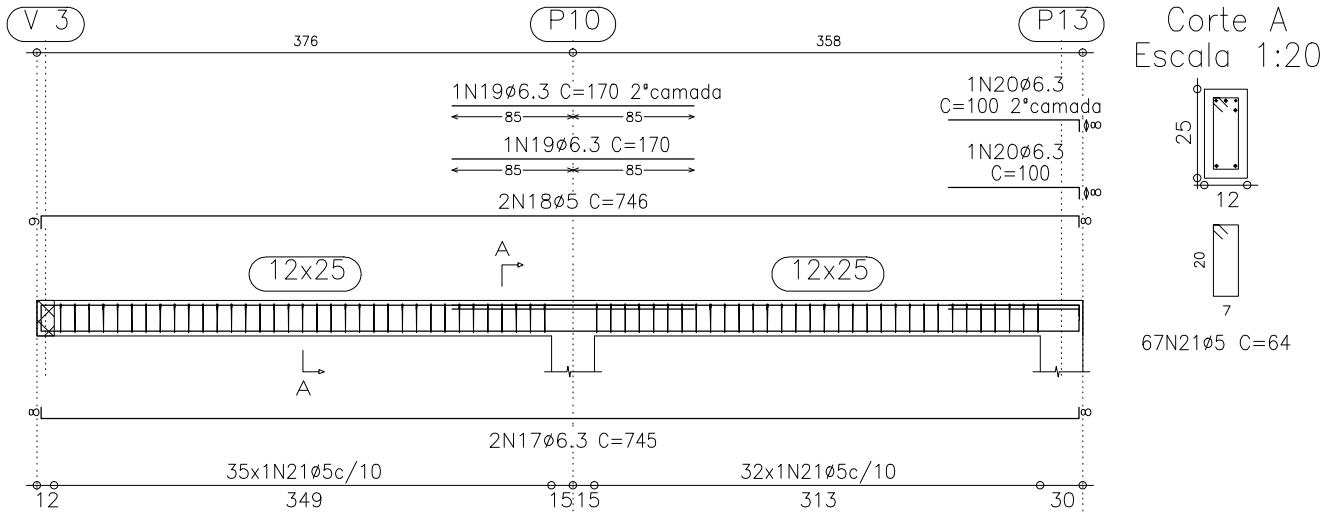
V 9  
Escala 1:50



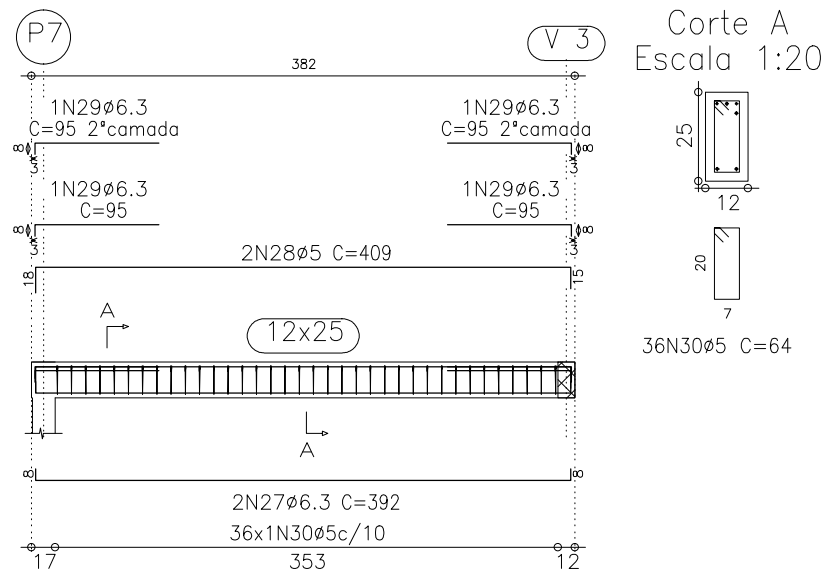
V 3  
Escala 1:50



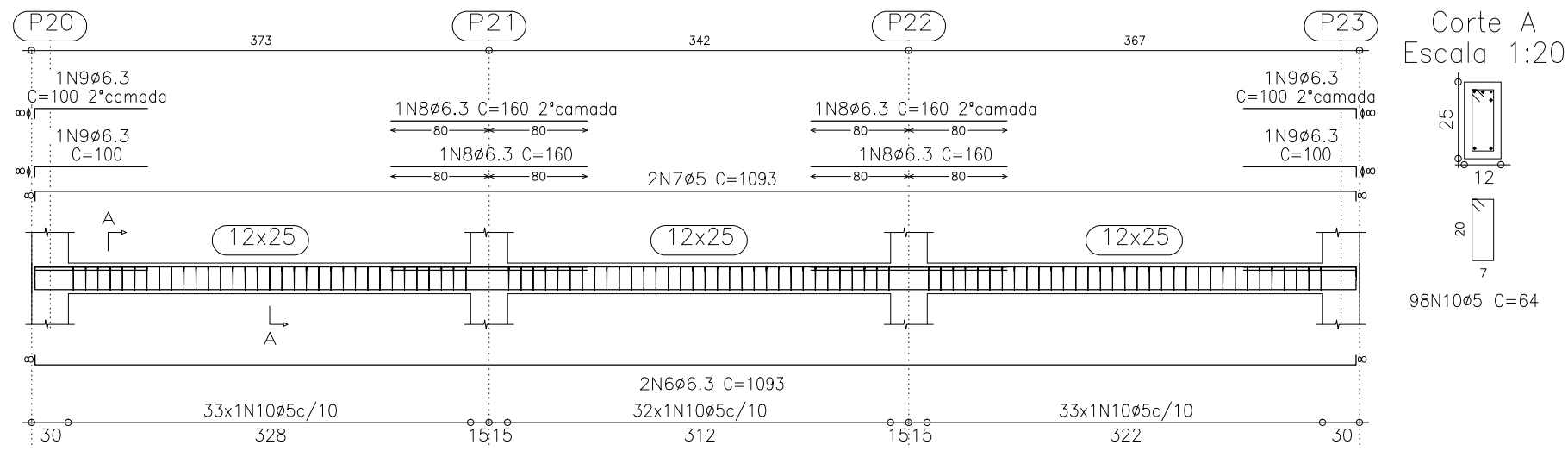
V 4  
Escala 1:50



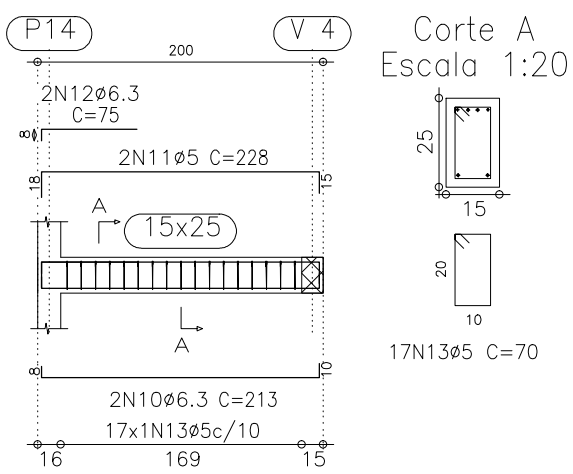
V 6  
Escala 1:50



V 11  
Escala 1:50



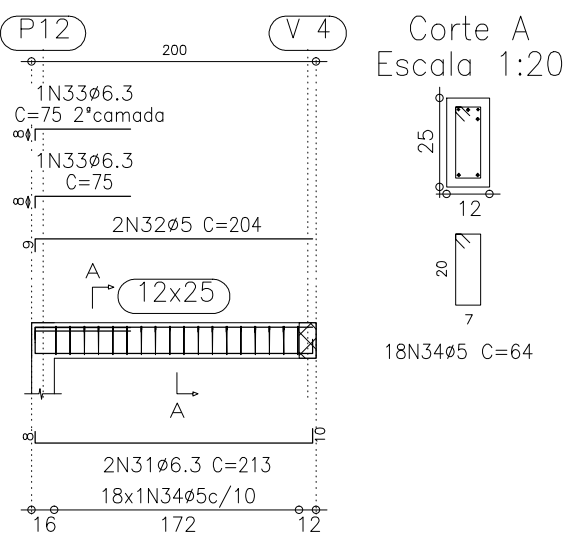
V 11  
Escala 1:50



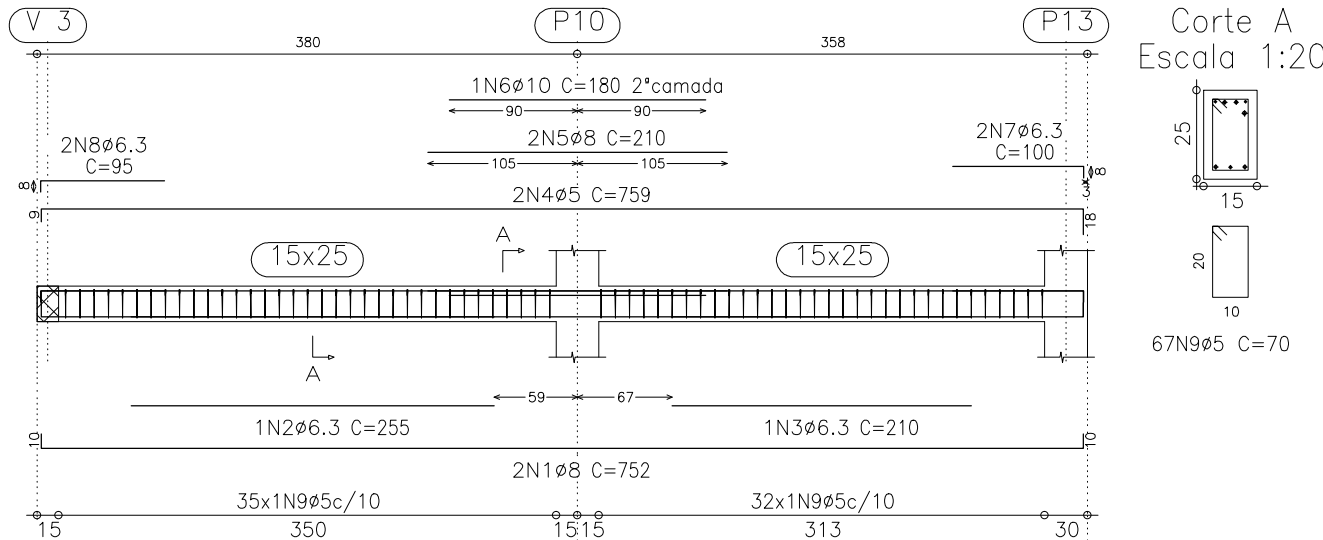
Nível inferior janelas  
Desenho de vigas  
Concreto: C20, em geral  
Aço: CA-50-A e CA-60-B  
Escala vigas: 1:50  
Escala seções: 1:20

Térreo  
Desenho de vigas  
Concreto: C20, em geral  
Aço: CA-50-A e CA-60-B  
Escala vigas: 1:50  
Escala seções: 1:20

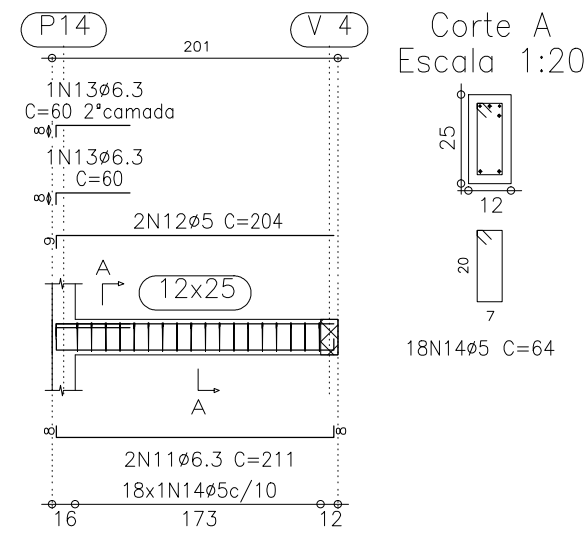
V 8  
Escala 1:50



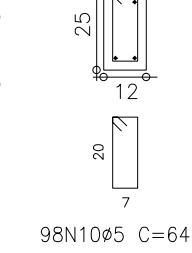
V 4  
Escala 1:50




V 10  
Escala 1:50



Corte A  
Escala 1:20



Elemento	Pos.	Diam.	Q.	Dob.	Reta	Dob.	Comp.	Total	CA-50-A	CA-60-B
V 1	1 ø8	2	10	632	10	652	1304	5.1		
	2 ø6.3	2	18	365	18	365	1336	0.9		
	3 ø8	2	10	150	8	160	320	1.3		
	4 ø6.3	2	2	147	8	155	310	0.8		
	5 ø5	59				64	3776			
								8.9	8.8	
V 2	8 ø5	2	8	304	8	320	640	1.6		
	9 ø6.3	4	8	77		85	340	0.8		
	10 ø5	25				64	1600			
								2.6	3.9	
V 3	11 ø6.3	2	8	635	8	651	1302	3.2		
	12 ø5	2	8	635	12	655	1310			
	13 ø6.3	2	2	150		150	300	0.7		
	14 ø6.3	2	8	87		95	190	0.5		
	15 ø6.3	2	2	77		85	170	0.4		
	16 ø5	56				64	3584			
								5.3	8.5	
V 4	17 ø6.3	2	8	729	8	745	1490	3.7		
	18 ø5	2	9	729	8	746	1492			
	19 ø6.3	2	8	339	8	355	710	1.8		
	20 ø6.3	4	8	87		95	190	0.5		
	21 ø5	67		92		64	4288			
								5.5	9.9	
V 5	22 ø6.3	2	8	339	8	355	710	1.8		
	23 ø5	2	8	339	8	355	710			
	24 ø6.3	2	8	87		95	190	0.5		
	25 ø6.3	2	2	82		90	180	0.4		
	26 ø5	29				64	1856			
								3.0	4.4	
V 6	27 ø6.3	2	8	376	8	392	784	1.9		
	28 ø5	2	18	376	15	409	818			
	29 ø6.3	4	8	87		95	380	0.9		
	30 ø5	36				64	2304			
								3.1	5.4	
V 8	31 ø6.3	2	8	195	10	213	426	1.1		
	32 ø5	2	9	195	8	204	408			
	33 ø6.3	2	8	67		75	150	0.4		
	34 ø5	18				64	1152			
								1.7	2.6	
								0.0	43.5	
								23.1	0.0	
								7.0	0.0	
								30.1	43.5	
Elemento	Pos.	Diam.	Q.	Dob.	Reta	Dob.	Comp.	Total	CA-50-A	CA-60-B
V 9	1 ø6.3	2	8	347	8	363	726	1.8		
	2 ø5	2	14	347	14	375	750			
	3 ø6.3	2	8	87		95	190	0.5		
	4 ø6.3	2	2	82		90	180	0.4		
	5 ø5	31				64	1984			
								3.0	4.7	
V 11	6 ø6.3	2	8	1077	8	1093	2186	5.4		
	7 ø5	2	8	1077	8	1093	2186			
	8 ø6.3	4	8	92		100	640	1.6		
	9 ø6.3	4	8	92		100	400	1.0		
	10 ø5	98				64	6272			
								8.8	14.5	
V 10	11 ø6.3	2	8	195	8	211	422	1.0		
	12 ø5	2	9	195	8	204	408			
	13 ø6.3	2	8	52		60	120	0.3		
	14 ø5	18				64	1152			
								1.4	2.6	
								0.0	21.8	
								13.2	0.0	
								13.2	21.8	
Elemento	Pos.	Diam.	Q.	Dob.	Reta	Dob.	Comp.	Total	CA-50-A	CA-60-B
V 4	1 ø8	2	10	732	10	752	1504	5.9		
	2 ø6.3	1	255			255	255	0.6		
	3 ø6.3	1	210			210	210	0.5		
	4 ø5	2	9	732	18	759	1518			
	5 ø8	2	210			210	420	1.6		
	6 ø10	2	180			180	180	1.1		
	7 ø6.3	2	92			100	200	0.5		
	8 ø6.3	2	8	87		95	190	0.5		
	9 ø5	67				70	4690			
								11.8	10.8	
V 11	10 ø6.3	2	8	195	10	213	426	1.1		
	11 ø5	2	18	195	15	228	456			
	12 ø6.3	2	8	67		75	150	0.4		
	13 ø5	17				70	1190			
								1.7	2.9	
V 9	14 ø6.3	2	8	197	10	215	430	1.1		
	15 ø5	3	28	197	8	225	675			
	16 ø8	2	10	95		105	210	0.8		
	17 ø5	17				70	1190			
								2.1	3.3	
								0.0	17.0	
								5.2	0.0	
								9.2	0.0	
								1.2	0.0	
								15.6	17.0	

OBRA: Município Presidente Olegário-Reforma Parque Exposições CNPJ/CPF: 18.602.860/0001-40 Rua Severino Mendes, 995 – Planalto		TERRENO: 500m²		CELIO FRANCO	
IDENTIFICAÇÃO	PROJETO: CÁLCULO ESTRUTURAL E FUNDAÇÕES-PAVILJÃO Célia Sebastião Franco	CONSTRUÇÃO: 186,66 m²			DATA: 31/03/2015
		REVISÃO: 02/04/2014			OBRA: 03-CYPECAD14-31032015
		CLIENTE: 031032015			
CODIGO	ART: 2384126	FOLHA: 2/3			
CONTEUDO	CREA: 1493/D-DF	VIGAS			
TC-26.928285-05-2014-Reforma parque de exposições-Ata e projeto de infraestrutura- Tabela		DES: Celio Franco TEL: (34)9961-4000	ESC: Indicações Projetos Email: cf.celiofranco@gmail.com	01	