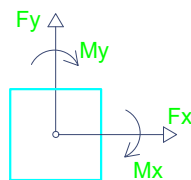
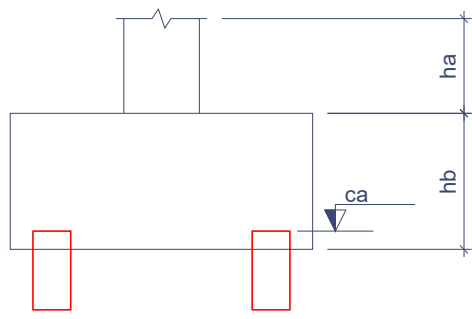


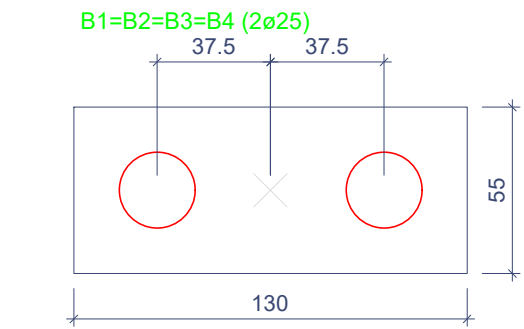
Planta de localização  
escala 1:50

Nome	Seção (cm)	X (cm)	Y (cm)	Pilar				Fundação					Bloco			
				Carga (tf)	Mx (kgf.m)	My (kgf.m)	Fx (tf)	Fy (tf)	Lado B (cm)	Lado H (cm)	h0 / ha (cm)	h1 / hb (cm)	ne	de (cm)	ca (cm)	Base tub. (cm)
P1	15x25	471.00	299.24	2.4	100	100	0.3	0.2	130	55	0	50	2	25	-35	
P2	15x25	686.00	299.24	2.4	100	100	0.3	0.2	130	55	0	50	2	25	-35	
P3	15x25	471.00	94.24	2.4	100	100	0.3	0.2	130	55	0	50	2	25	-35	
P4	15x25	686.00	94.24	2.4	100	100	0.3	0.2	130	55	0	50	2	25	-35	

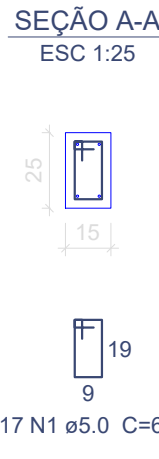
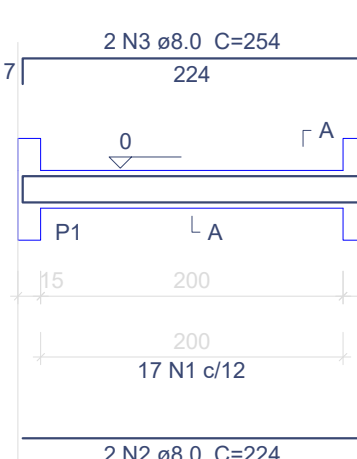
Estacas	
de (cm)	Quantidade
25	8



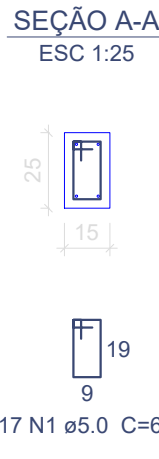
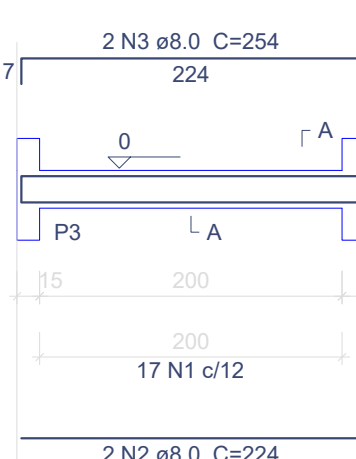
Legenda dos blocos  
escala 1:25



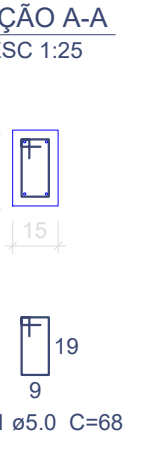
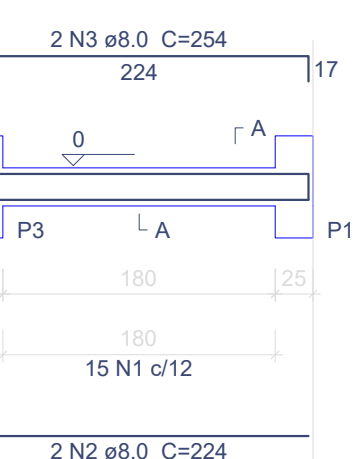
VB1  
ESC 1:50



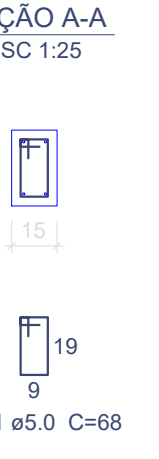
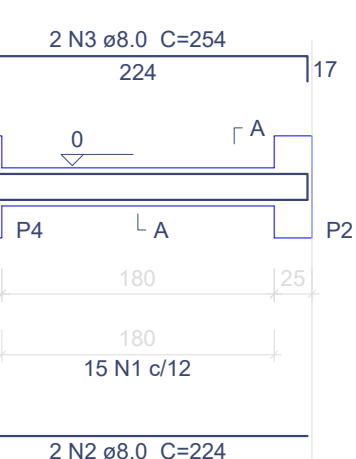
VB2  
ESC 1:50



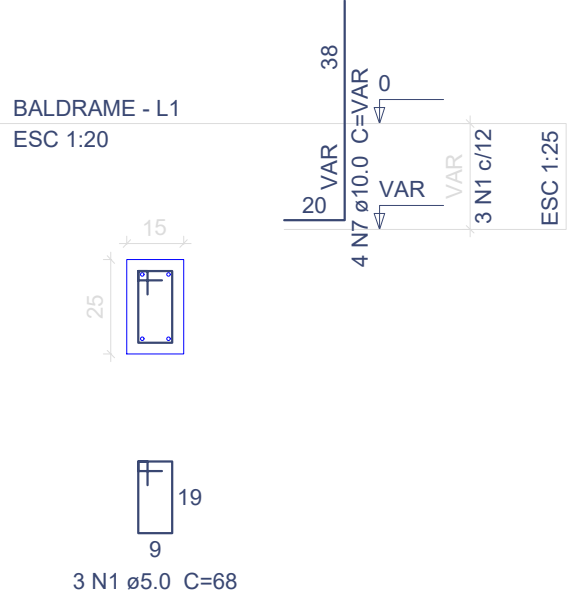
VB3  
ESC 1:50



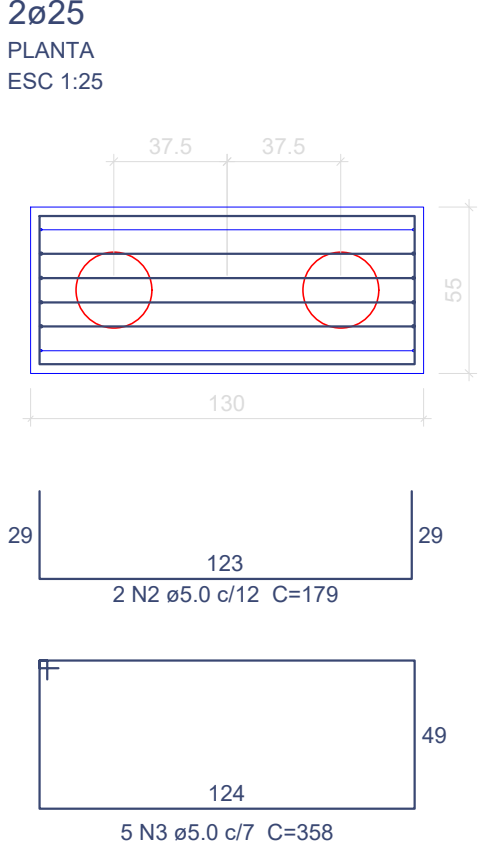
VB4  
ESC 1:50



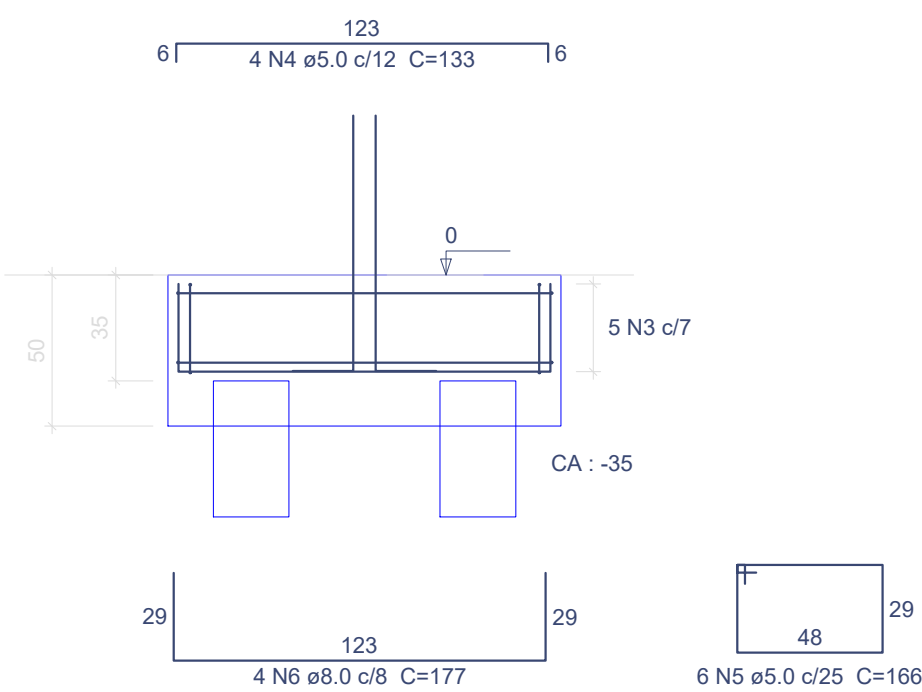
P1=P2=P3=P4



B1=B2=B3=B4



CORTE  
ESC 1:25



Relação do aço

AÇO	N	DIAM (mm)	QUANT (Barras)	UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	64	68	4352
CA50	2	8.0	8	224	1792
CA60	3	8.0	8	254	2032

Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	8.0	38.3	16.6
CA60	5.0	43.6	7.4
PESO TOTAL (kg)			24.0
CA50	16.6		
CA60	7.4		

Volume de concreto (C-25) = 0.35 m³  
Área de forma = 5.98 m²

Relação do aço

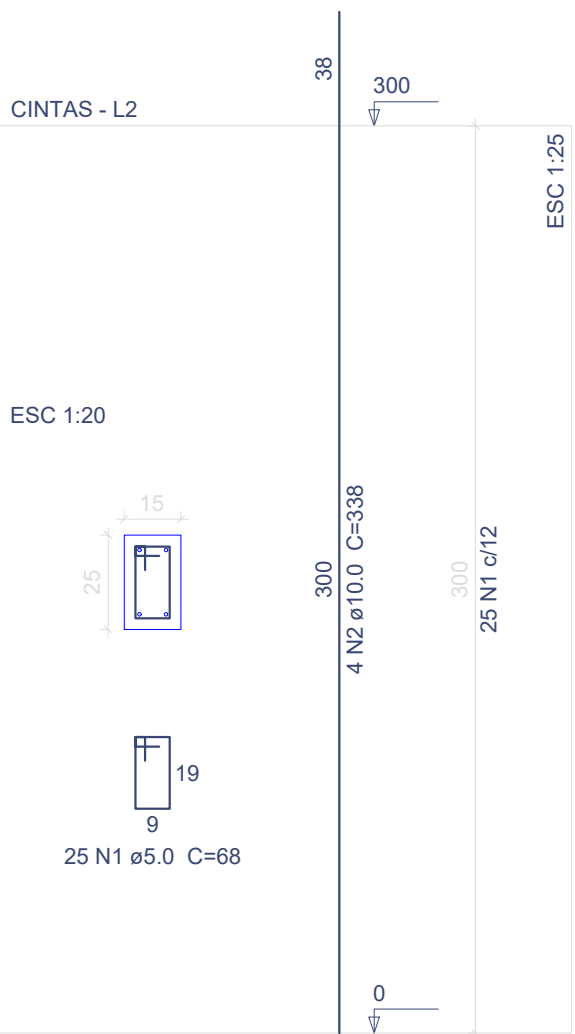
AÇO	N	DIAM (mm)	QUANT (Barras)	UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	12	68	816
CA60	2	5.0	8	179	1432
CA60	3	5.0	20	358	7160
CA60	4	5.0	16	133	2128
CA60	5	5.0	24	166	3984
CA60	6	8.0	16	177	2832
CA60	7	10.0	16	VAR	VAR

Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	8.0	28.4	12.3
CA60	10.0	14.6	9.9
CA60	5.0	155.2	26.3
PESO TOTAL (kg)			48.5
CA50	22.2		
CA60	26.3		

Volume de concreto (C-25) = 1.42 m³  
Área de forma = 8.52 m²

P1=P2=P3=P4



Relação do aço

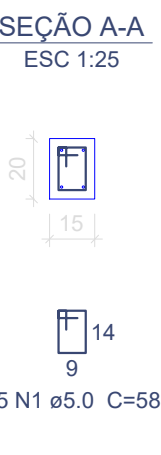
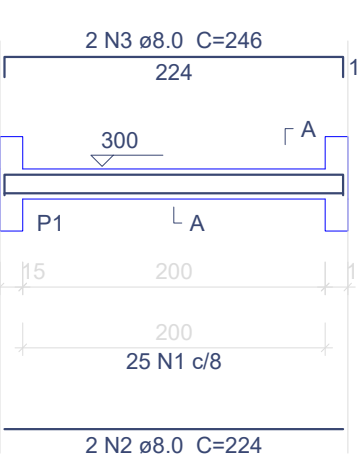
AÇO	N	DIAM (mm)	QUANT (Barras)	UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	100	68	6800
CA50	2	10.0	16	338	5408

Resumo do aço

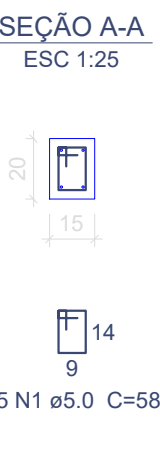
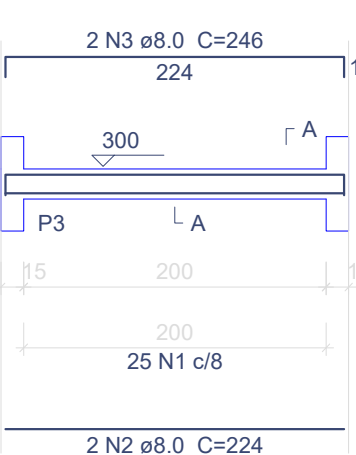
AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	10.0	54.1	36.7
CA60	5.0	68	11.5
PESO TOTAL (kg)			48.2
CA50	36.7		
CA60	11.5		

Volume de concreto (C-25) = 0.45 m³  
Área de forma = 9.6 m²

VC1  
ESC 1:50



VC2  
ESC 1:50



Relação do aço

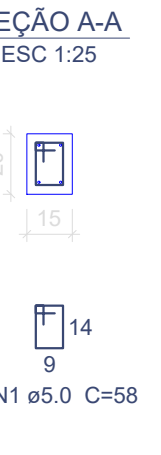
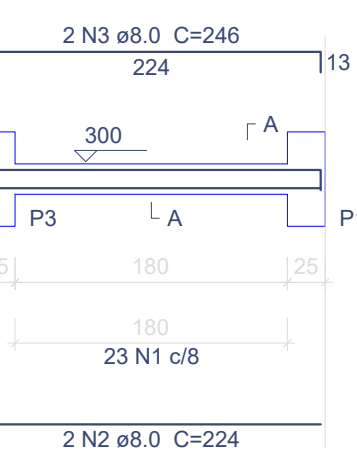
AÇO	N	DIAM (mm)	QUANT (Barras)	UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	96	58	5568
CA50	2	8.0	8	224	1792
CA50	3	8.0	8	246	1968

Resumo do aço

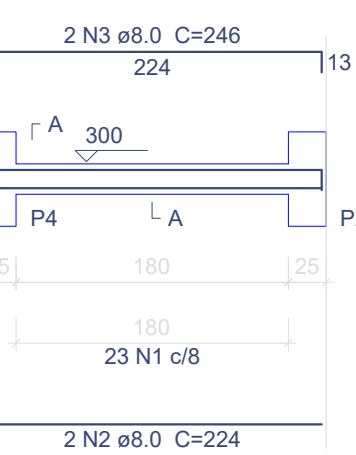
AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	8.0	37.6	16.3
CA60	5.0	55.7	9.4
PESO TOTAL (kg)			25.7
CA50	16.3		
CA60	9.4		

Volume de concreto (C-25) = 0.28 m³  
Área de forma = 5.06 m²

VC3  
ESC 1:50



VC4  
ESC 1:50



**OBRA:**  
**REFORMA - UBS**  
**ESPIGÃO ALTO | ÁREA RURAL**  
**PROJETO ESTRUTURAL - ABRIGO DE RESÍDUOS**  
**Prefeitura Municipal de Jaguariaíva**  
Praça Izabel Branco 142 - Cidade Alta - Fone (43) 3535-9400 - Fax (43) 3535-9400  
Jaguariaíva -PR - CEP: 84.200-000 - CNPJ 76.910.900/0001-38  
Secretaria Municipal de Infraestrutura e Habitação

**2013-2016**  
**JOSÉ SLOBODA**  
**PREFEITO MUNICIPAL**

**TÍTULO:**  
**LOCAÇÃO - BLOCOS - PILARES - VIGAS BALDRAMES**  
**RESPONSÁVEL TÉCNICO:**  
Eng. Ana Claudia Krul  
CREA 69.540/D-PR  
**DESENHO:**  
Ana Claudia Krul  
DATA:  
AGOSTO.2016  
**PRANCHA:**  
01/02  
ESCALA:  
INDICADA