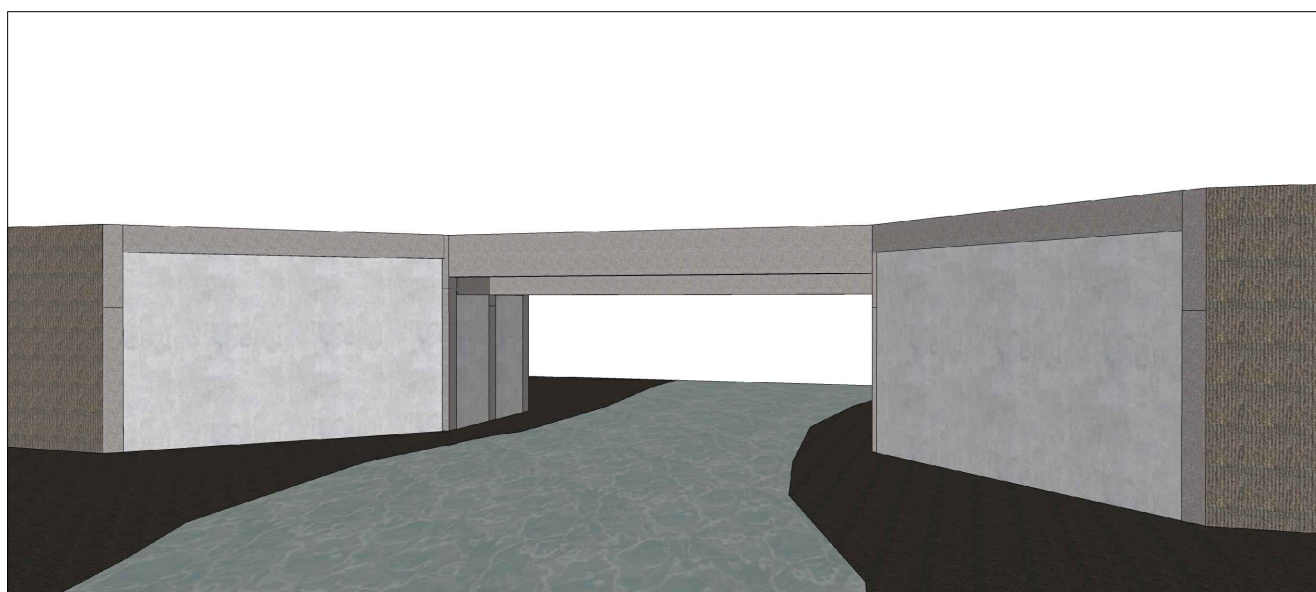
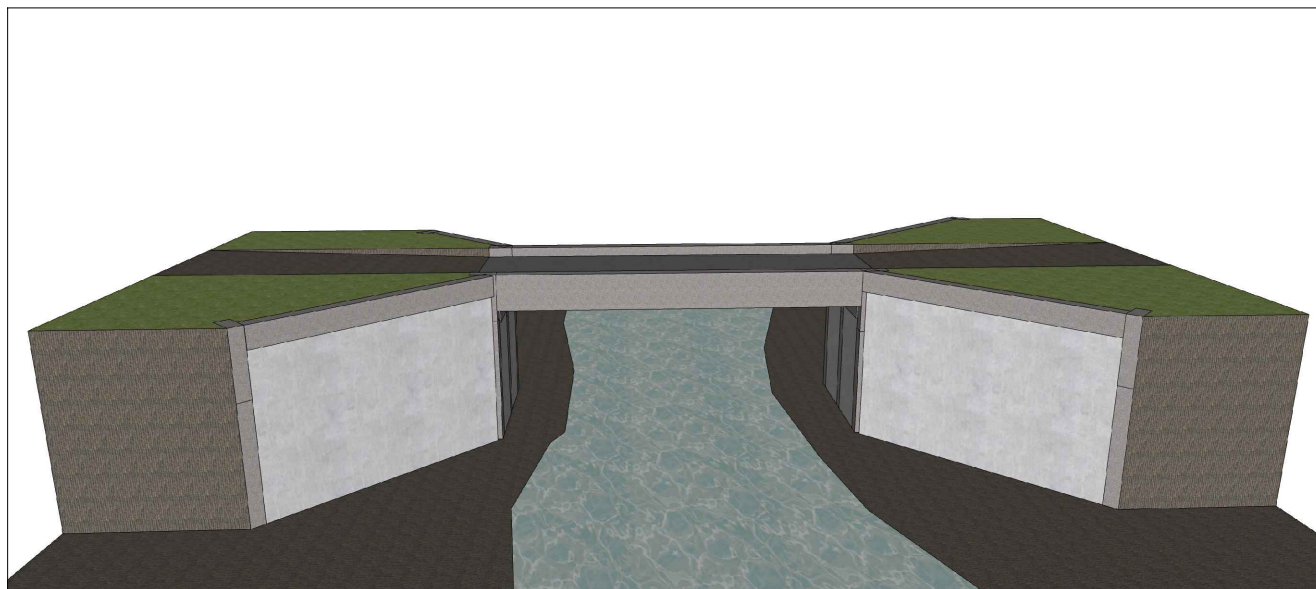


Perspectivas



Situação/Localização



### PONTILHÃO LINHA GRAFFE

Responsável(eis) Técnico(s):

Estevão Leão Marques  
Engenheiro Civil  
CREA RS/228985

Proprietário(s):

Prefeitura de Doutor Ricardo  
CNPJ: 01.613.360/0001-21

Endereço: Linha Graffe, Doutor Ricardo/RS

Descrição: Situação/Localização e Perspectiva

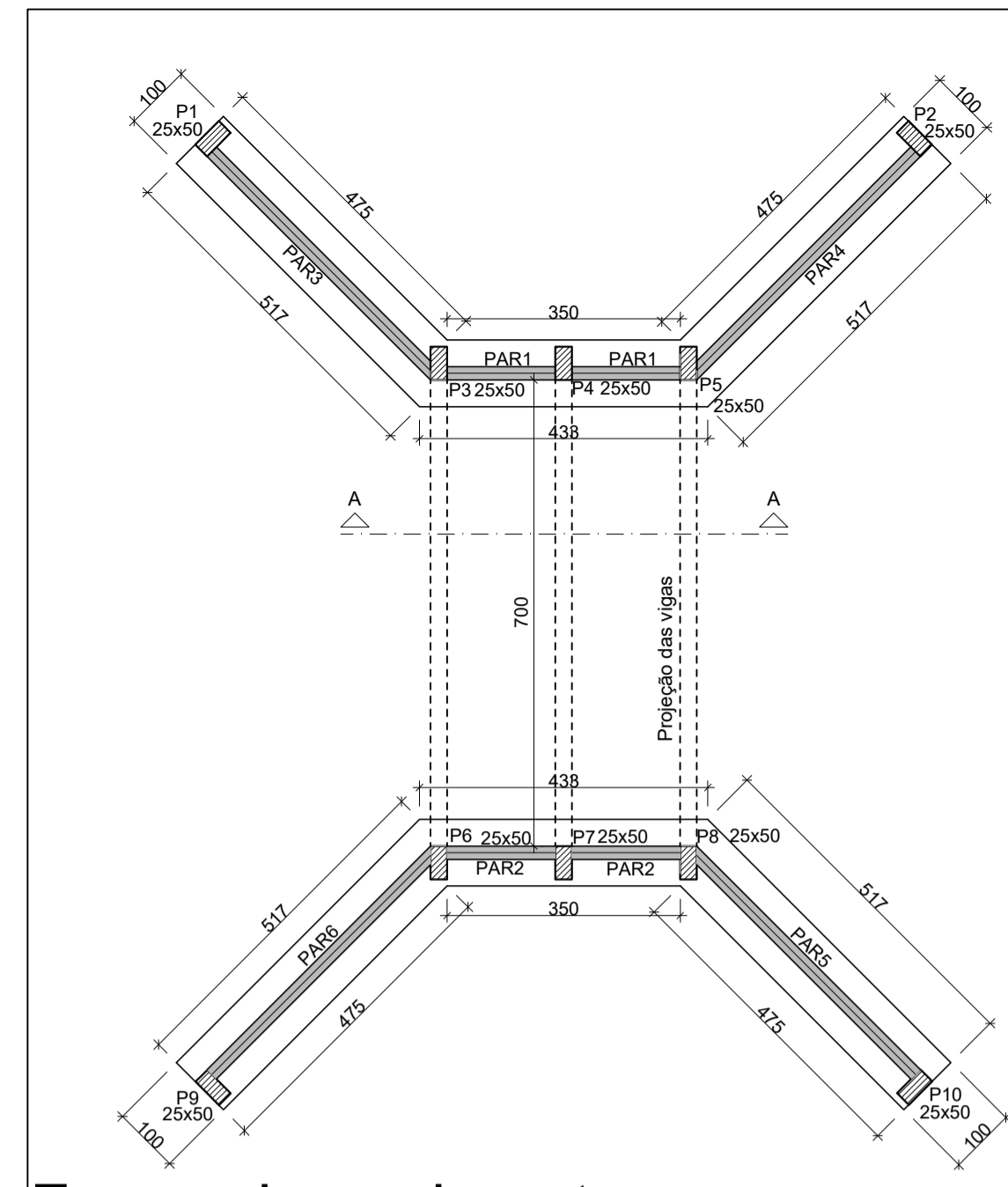
Desenho: Alex

Escala: Indicada

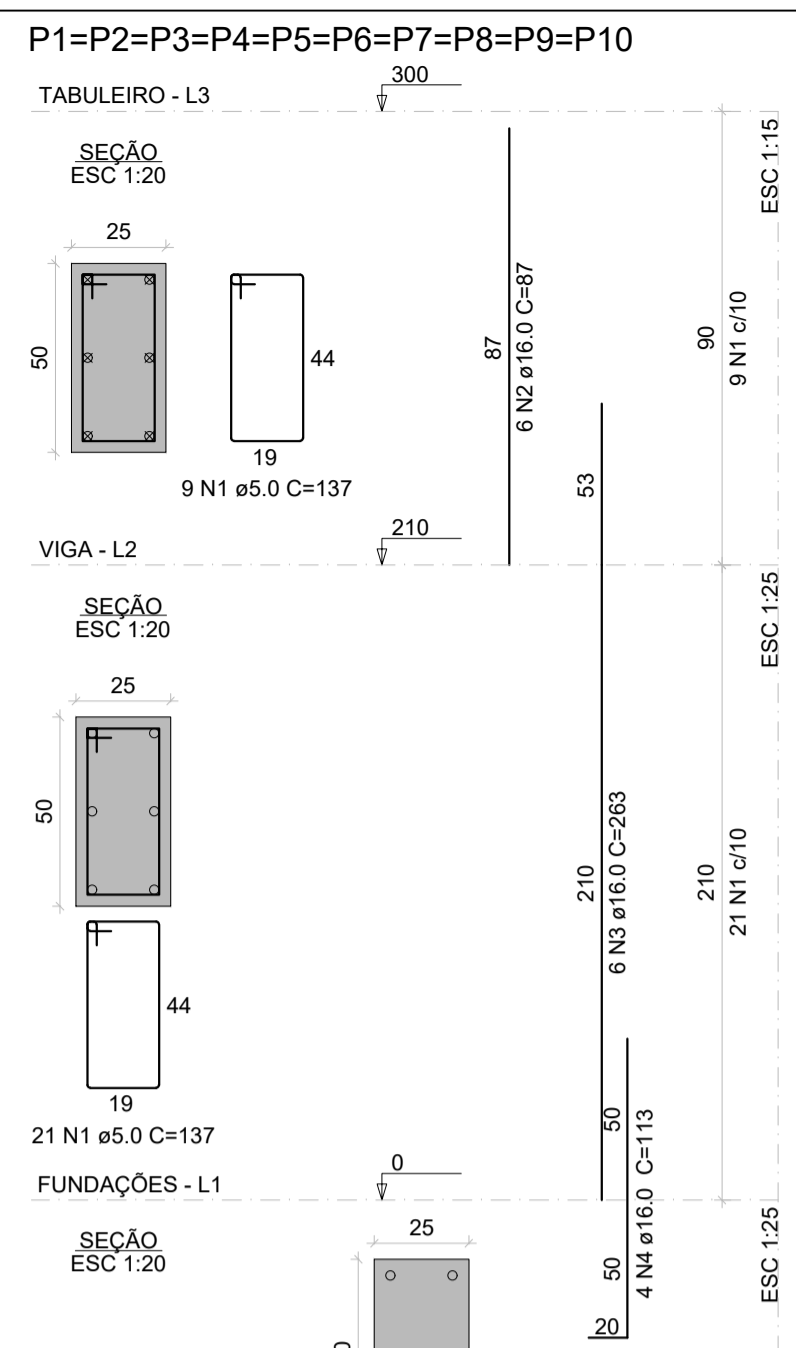
Área Total: 28.00 m<sup>2</sup>

Data: Outubro/2024

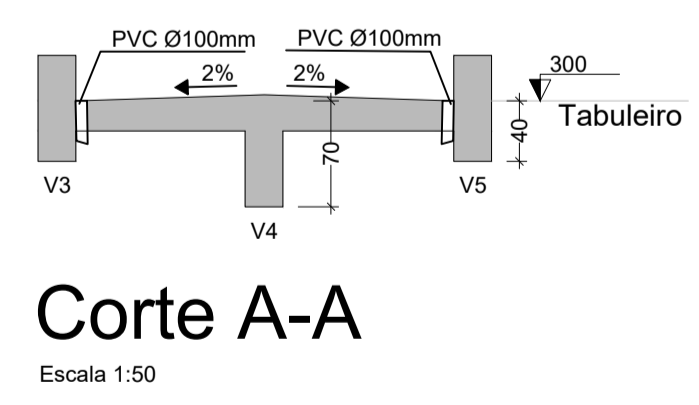
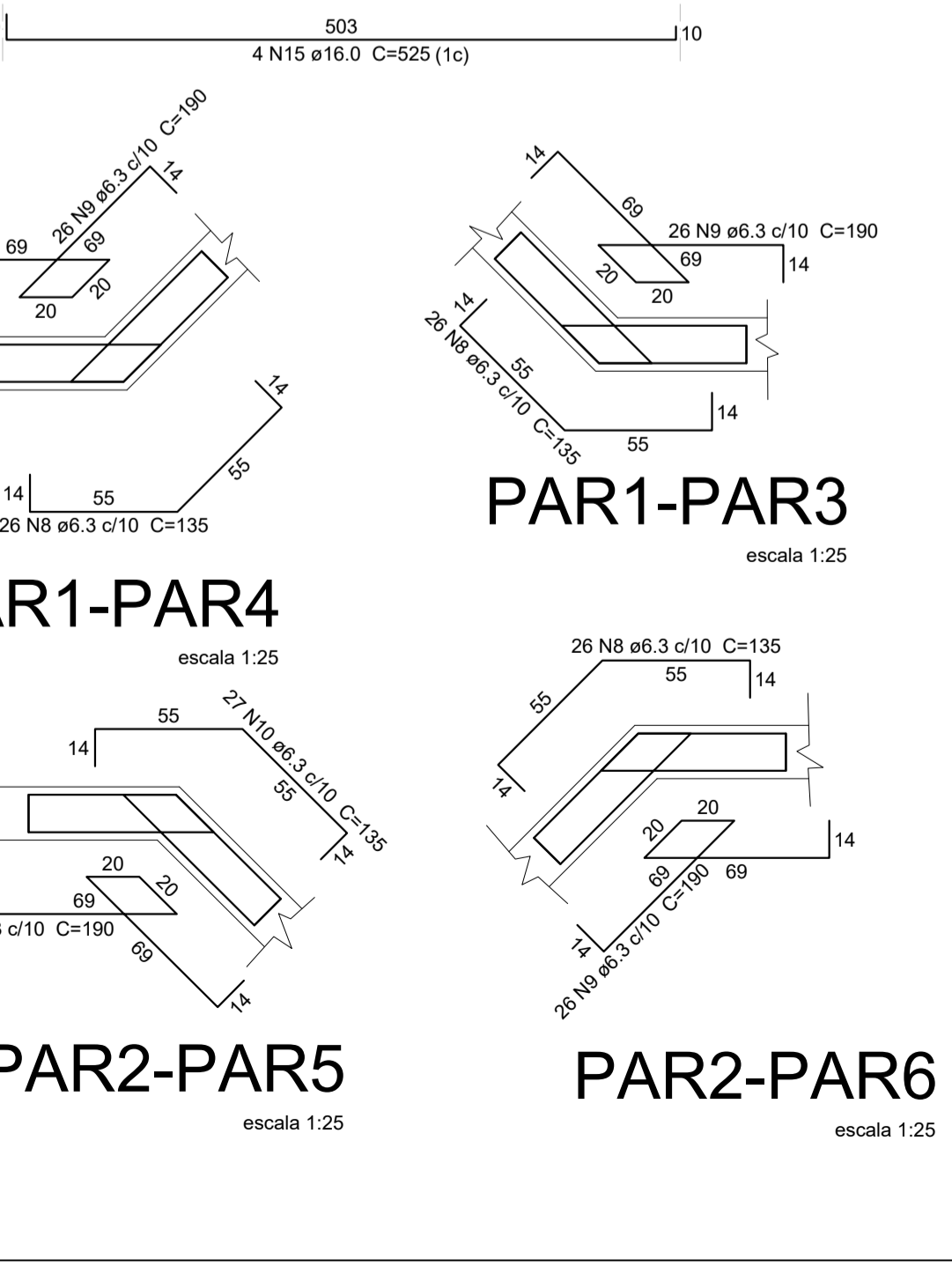
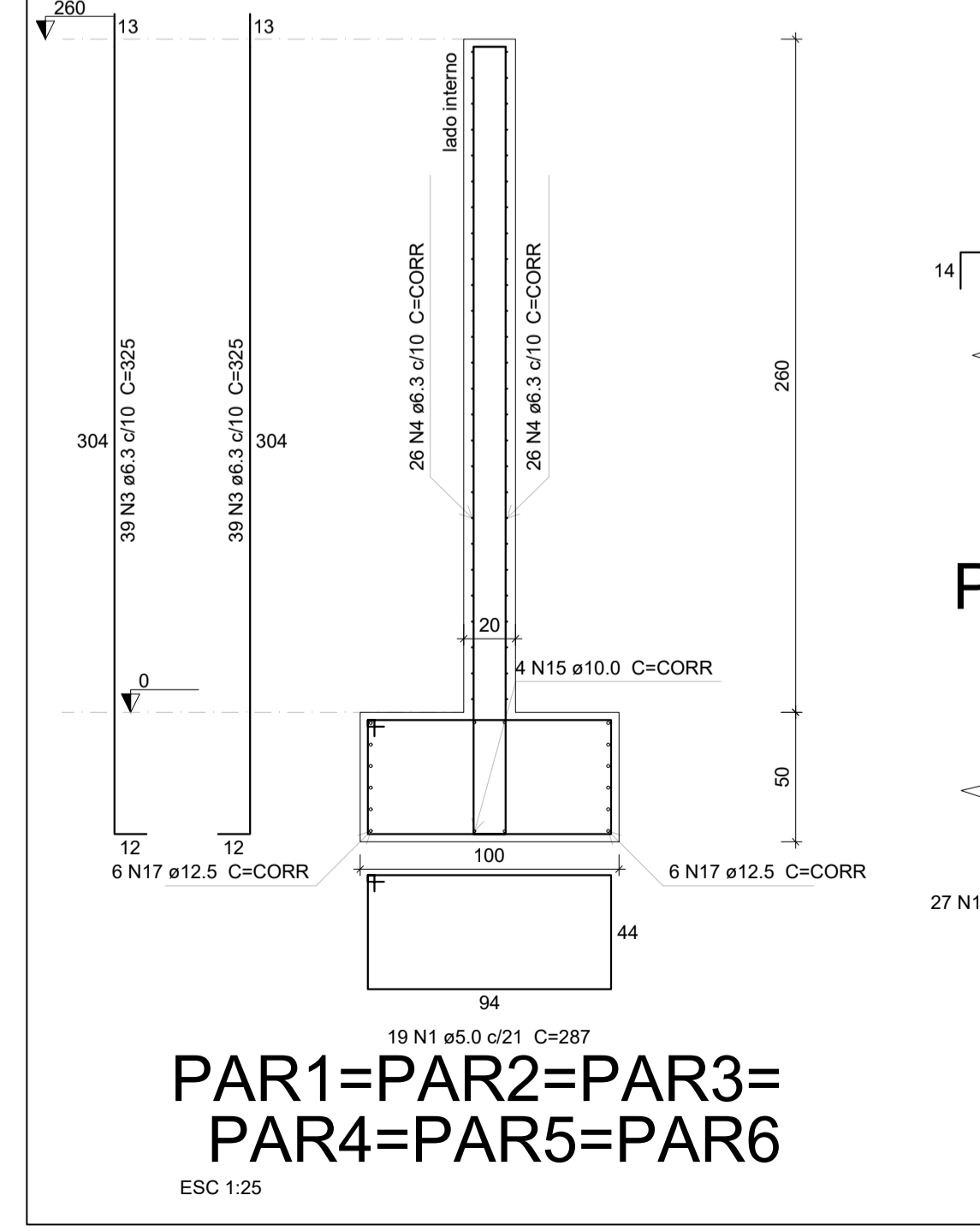
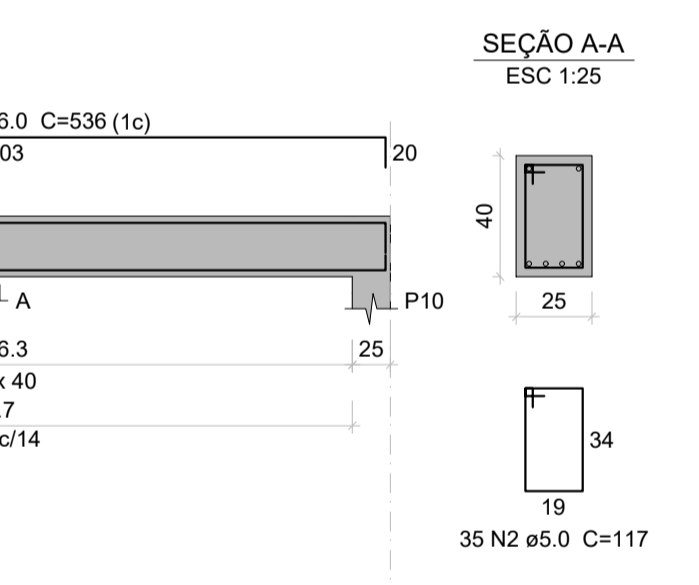
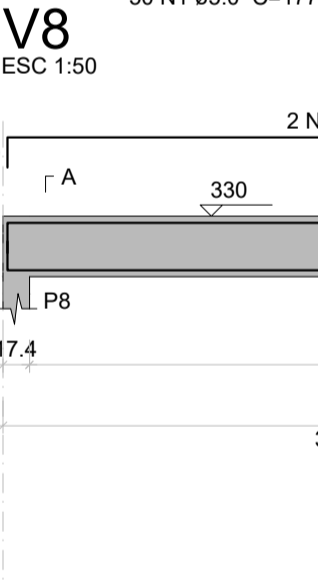
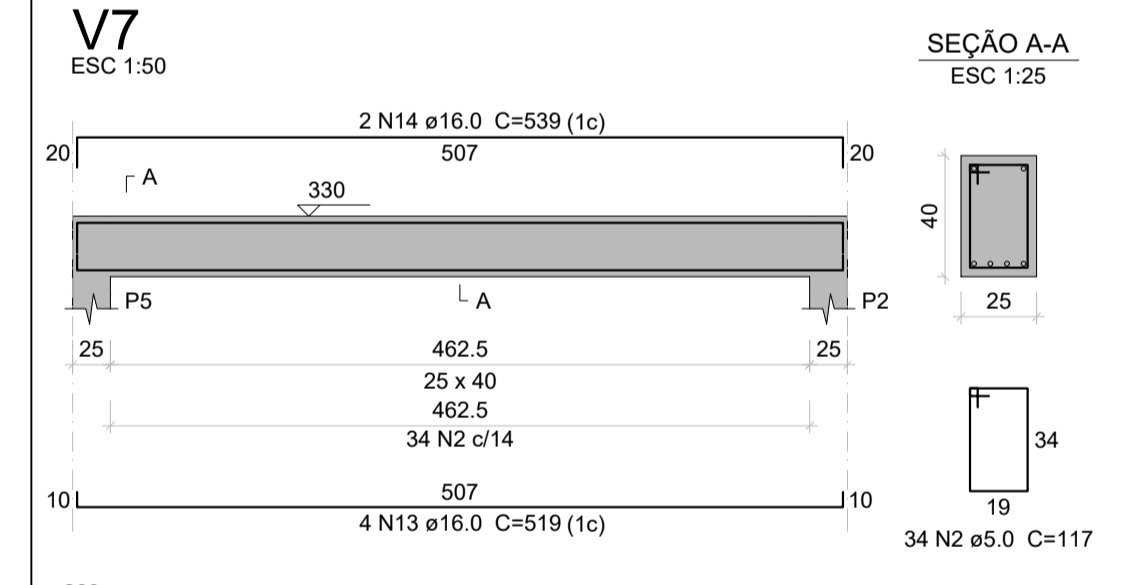
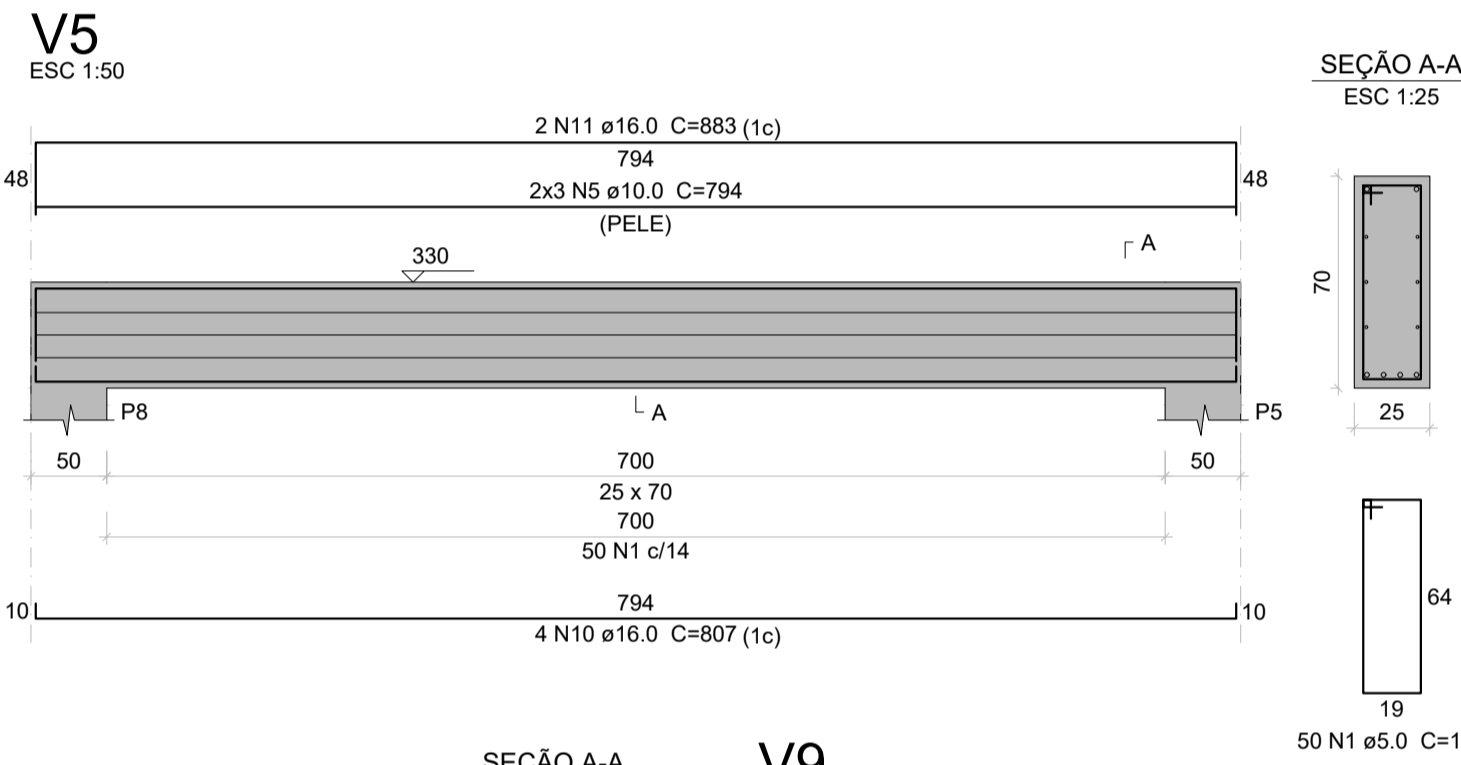
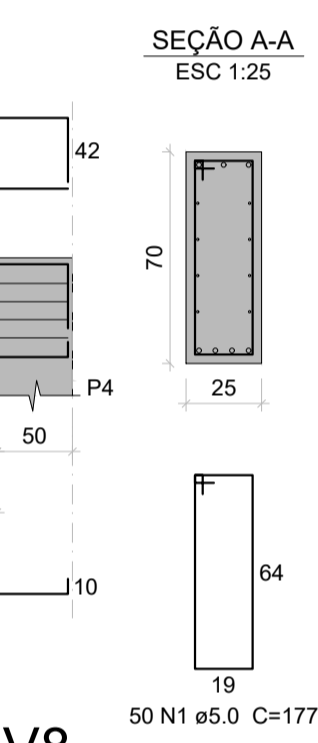
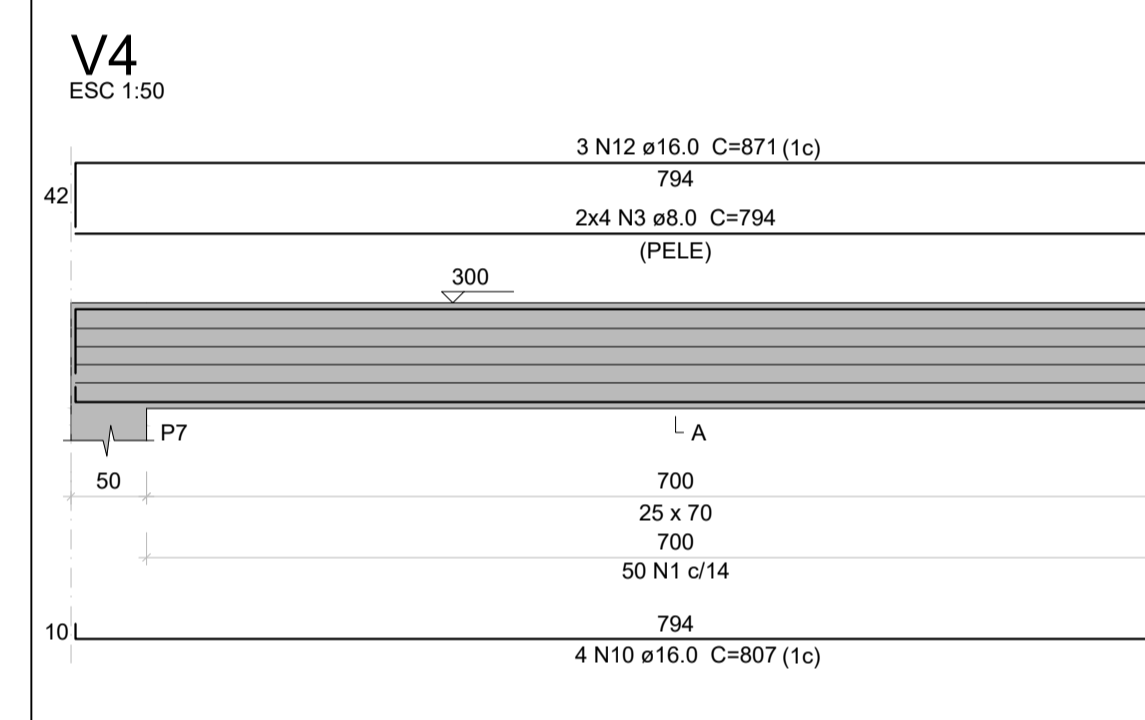
Prancha: 01/02



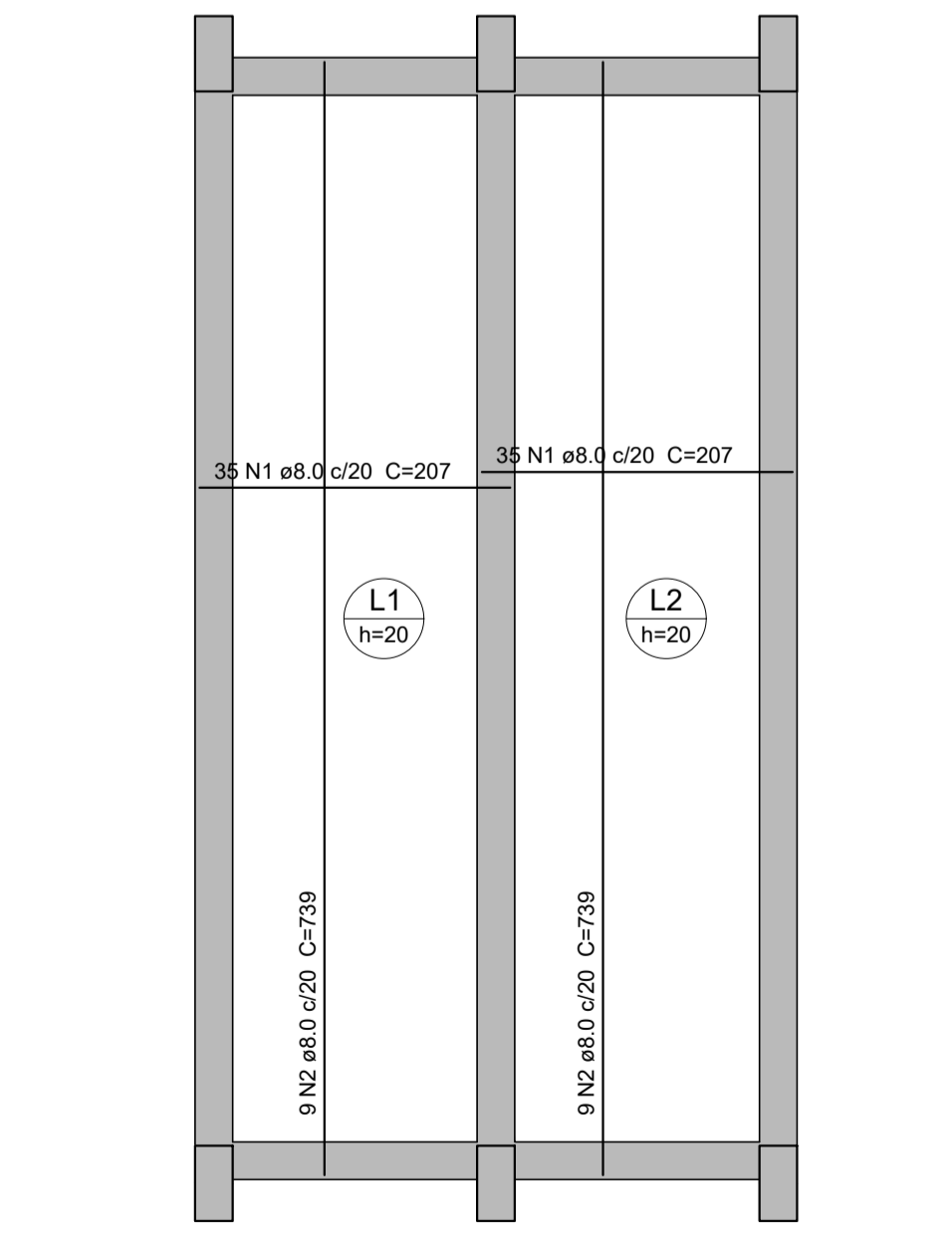
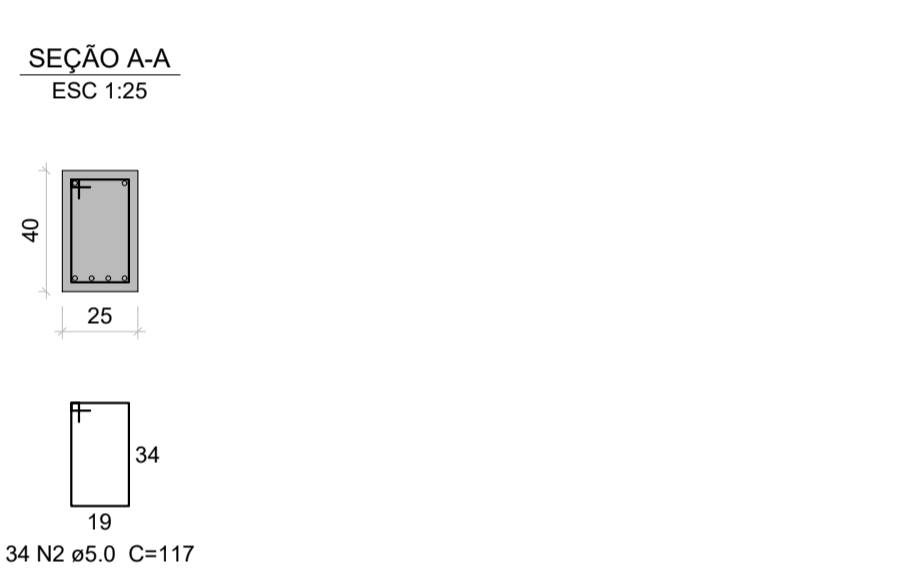
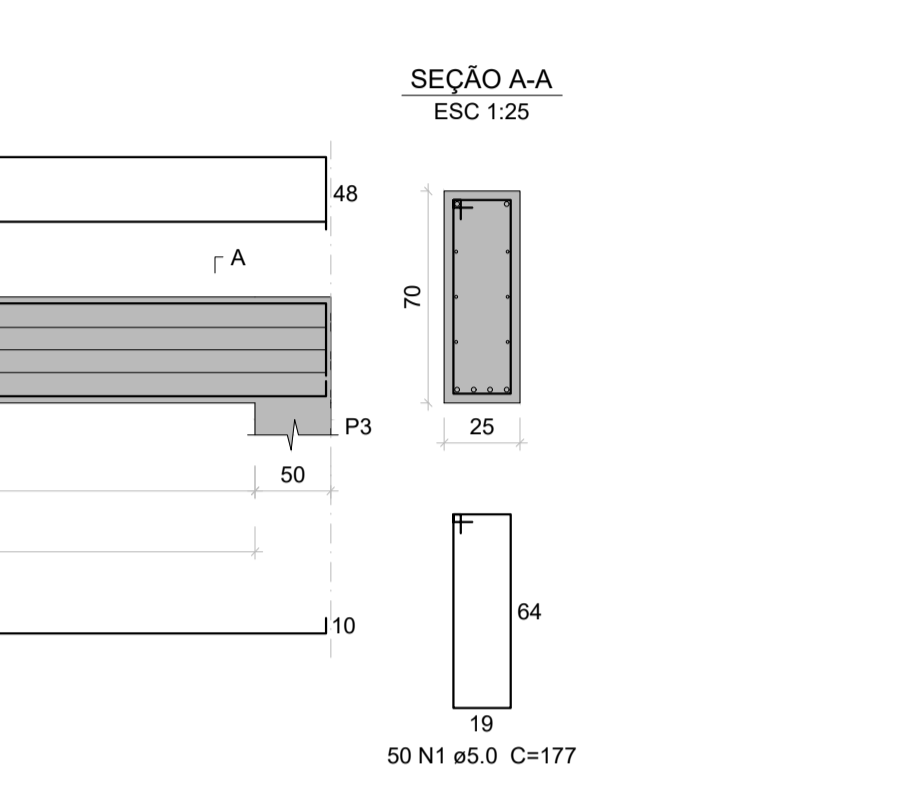
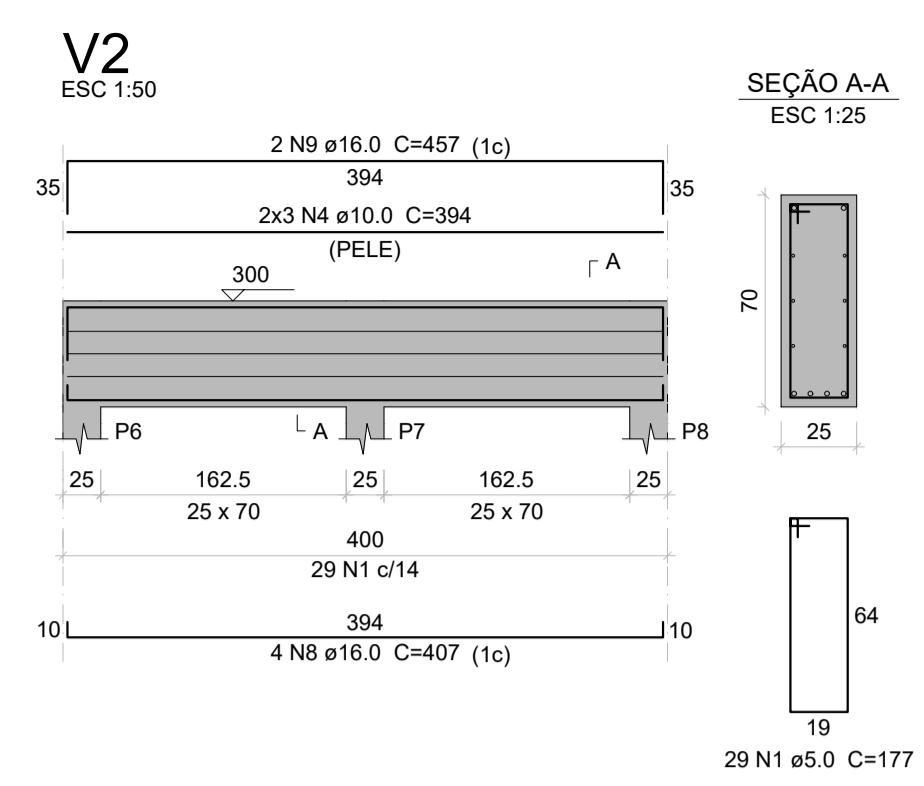
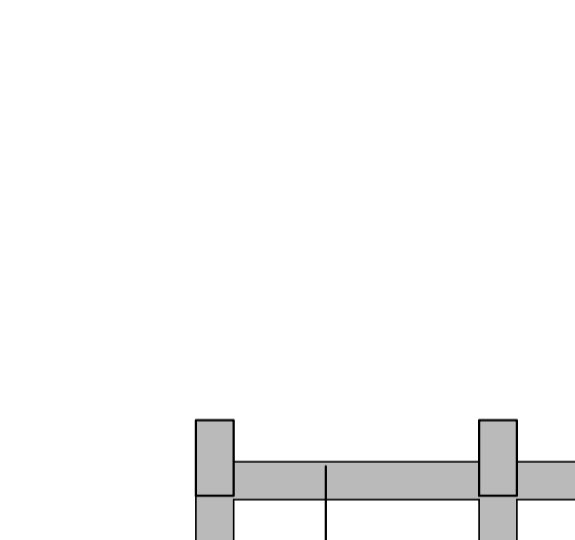
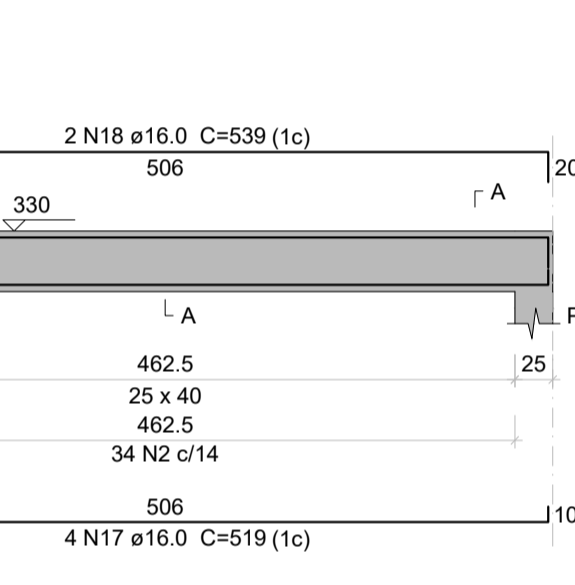
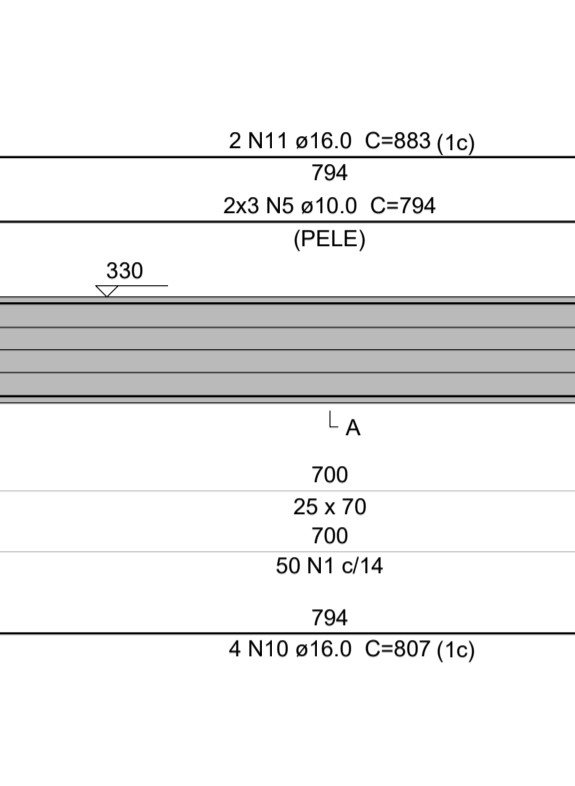
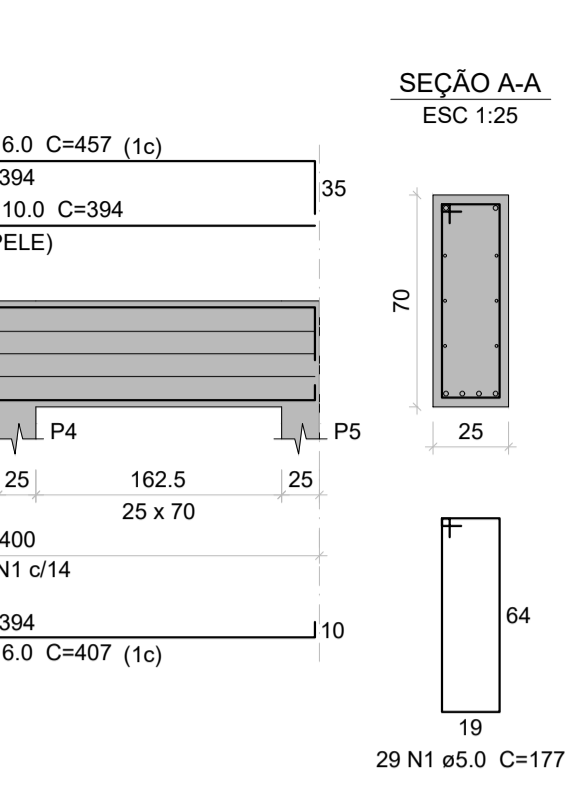
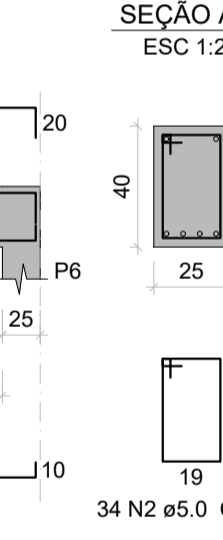
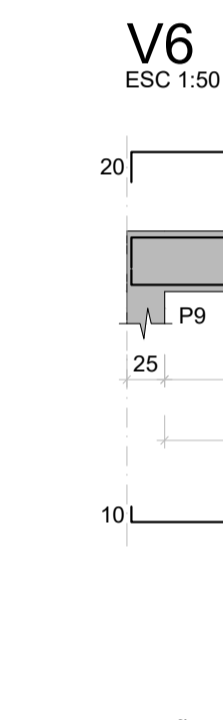
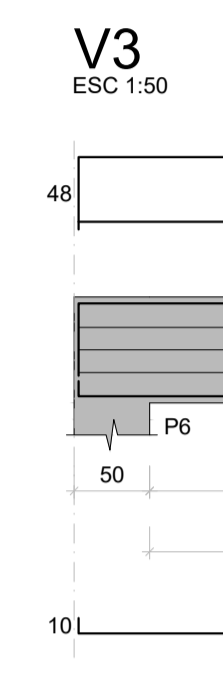
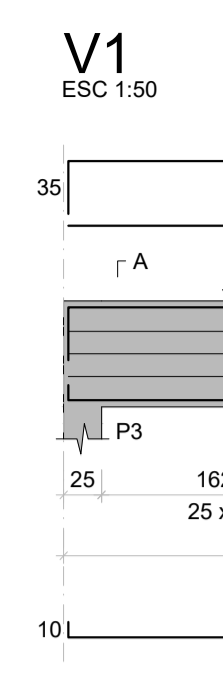
**Forma do pavimento Fundações (Nível 0)**  
Escala 1:100



**Forma do pavimento Tabuleiro (Nível 300)**  
Escala 1:100



**Corte A-A**  
Escala 1:50



**Armação positiva das lajes do pavimento Tabuleiro**  
Escala 1:50

Características dos materiais	
fck (kgf/cm²)	Ecs (kgf/cm²)
300	322061

Dimensão máxima do agregado = 19 mm

Legenda dos pilares	
	Pilar que passa
	Parede de concreto

**Resumo do aço - Pilares**

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	16.0	30.3	52.6
CA60	5.0	32.9	5.6
<b>PESO TOTAL (kg)</b>			
CA50		52.6	
CA60		5.6	

Volume de concreto (C-30) = 4.06 m³  
Área de forma = 48.75 m²

**Resumo do aço - Vigas**

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	8.0	63.6	27.6
CA50	10.0	142.6	96.7
CA60	5.0	528.5	89.6
<b>PESO TOTAL (kg)</b>			
CA50		693.0	
CA60		89.6	

Volume de concreto (C-30) = 6.79 m³  
Área de forma = 59.06 m²

**Resumo do aço - Paredes em Concreto**

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	6.3	3325.6	895.2
CA50	8.0	77.4	33.6
CA50	10.0	31.3	21.2
CA50	12.5	326	345.4
CA60	5.0	373.1	63.3
<b>PESO TOTAL (kg)</b>			
CA50		1295.3	
CA60		63.3	

Volume de concreto (C-30) = 28.87 m³  
Área de forma = 207.18 m²

**Resumo do aço - lajes**

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	8.0	278	120.6
<b>PESO TOTAL (kg)</b>			
CA50		120.6	

Volume de concreto (C-30) = 4.48 m³  
Área de forma = 22.38 m²

**PONTILHÃO LINHA GRAFFE**

<b>Responsável(eis) Técnico(s):</b>  Documento assinado digitalmente ESTEVÃO LEAO MARQUES Data: 16/10/2024 10:12:52 -0300 Verifique em https://verificar.gov.br	<b>Proprietário(s):</b> Prof. Doutor Ricardo CNPJ: 01.613.360/0001-21
<b>Endereço:</b> Linha Graffe, Doutor Ricardo/RS	
<b>Descrição:</b> Detalhamento Estrutural	
<b>Desenho:</b> Estevão	<b>Escala:</b> Indicada
<b>Área Total:</b> 28.00 m²	<b>Data:</b> Outubro/2024
<b>Prancha:</b> 02/02	