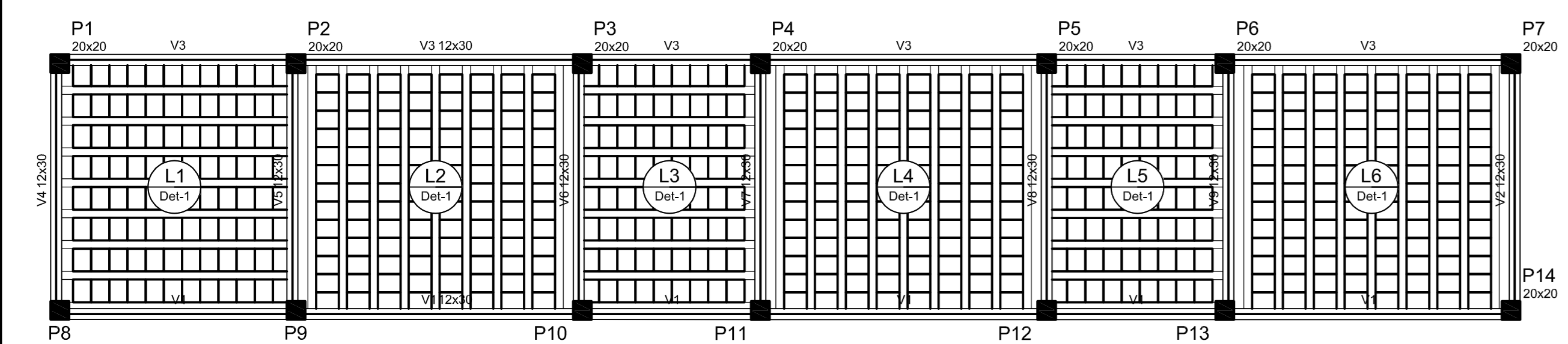


**Resumo do aço de vigas**

ACO	DIAM	C.TOTAL (m)	PESO + 10% (kg)
CA50	6,3	13,4	3,6
CA60	8,0	426,2	185
CA60	5,0	488	82,8
<b>PESO TOTAL</b>			<b>186,6</b>

Vol. de concreto total (C-25) = 3,8 m³  
Área de forma total = 76 m²



**Forma do pavimento P1** escala 1:50

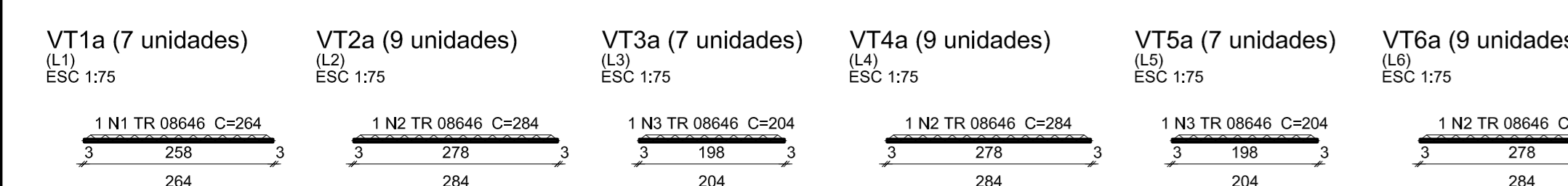
Vigas				Lajes				Pilares			
Nome	Seção	Elevação (cm)	Nível (cm)	Nome	Tipo	Altura (cm)	Nível (cm)	Nome	Seção	Elevação (cm)	Nível (cm)
V1	20x20	0	300	L1	Trefçada ID	14	0,00	P1	20 x 20	0	300
V2	20x20	0	300	L2	Trefçada ID	14	0,00	P2	20 x 20	0	300
V3	20x20	0	300	L3	Trefçada ID	14	0,00	P3	20 x 20	0	300
V4	20x20	0	300	L4	Trefçada ID	14	0,00	P4	20 x 20	0	300
V5	20x20	0	300	L5	Trefçada ID	14	0,00	P5	20 x 20	0	300
V6	20x20	0	300	L6	Trefçada ID	14	0,00	P6	20 x 20	0	300
V7	20x20	0	300					P7	20 x 20	0	300
V8	20x20	0	300					P8	20 x 20	0	300
V9	20x20	0	300					P9	20 x 20	0	300

**Legenda dos Pilares**

- Pilar que morre
- Pilar que passa
- Pilar que nasce
- Pilar com mudança de seção

**Blocos de enchimento**

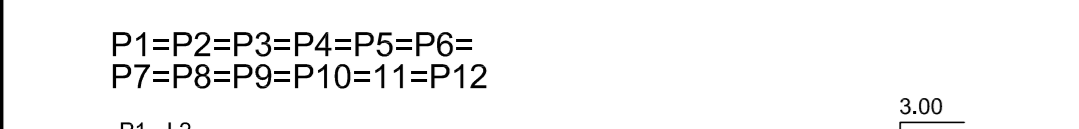
Detalhe	Tipo	Dimensões (cm)	Quantidade
1	Lapota cerâmica BS/250	8 x 25 x 20	562



**Resumo do aço**

ACO	DIAM	C.TOTAL (m)	PESO + 10% (kg)
CA50	TR 08646	133,8	130,8
CA60			
<b>PESO TOTAL</b>			<b>130,8</b>

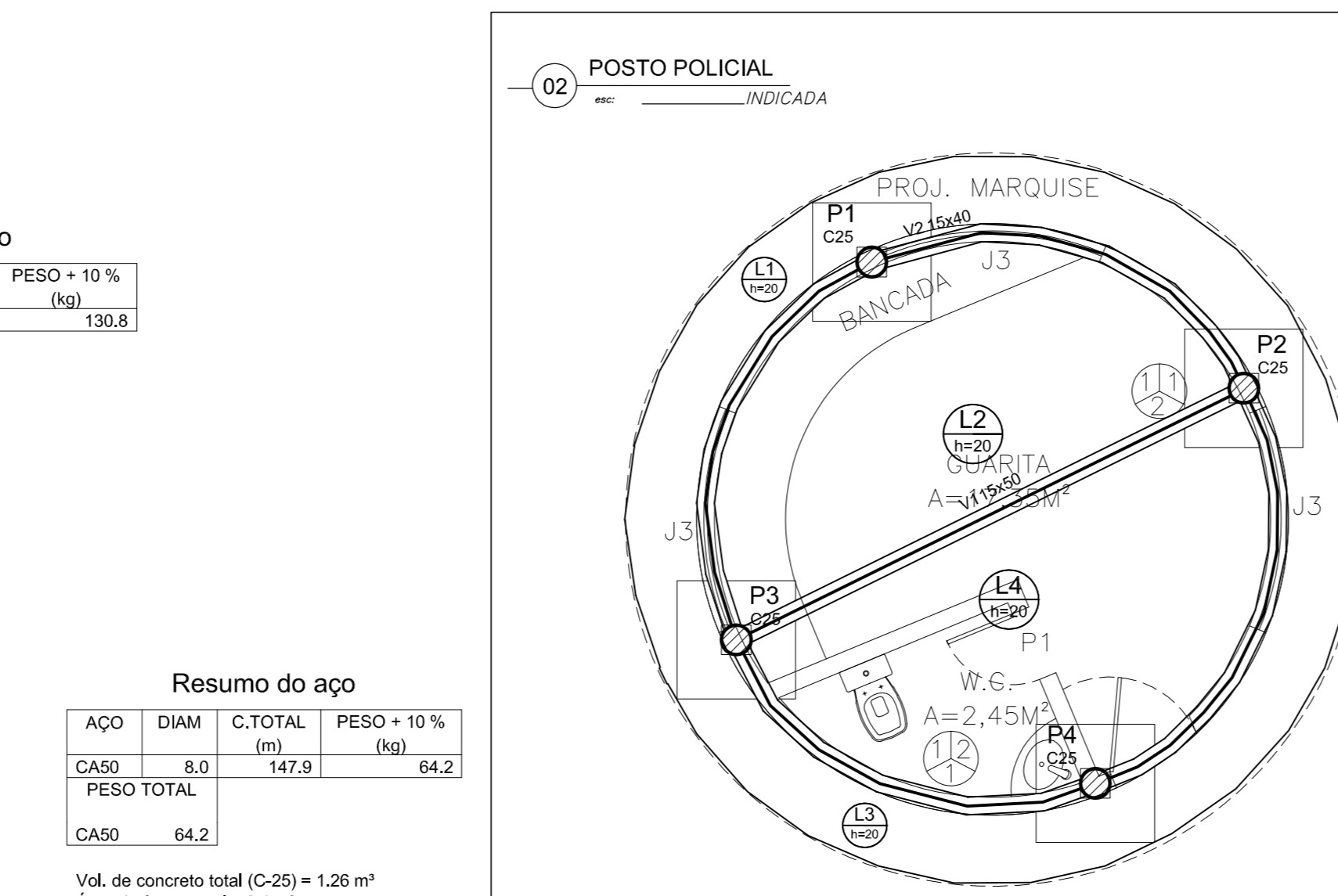
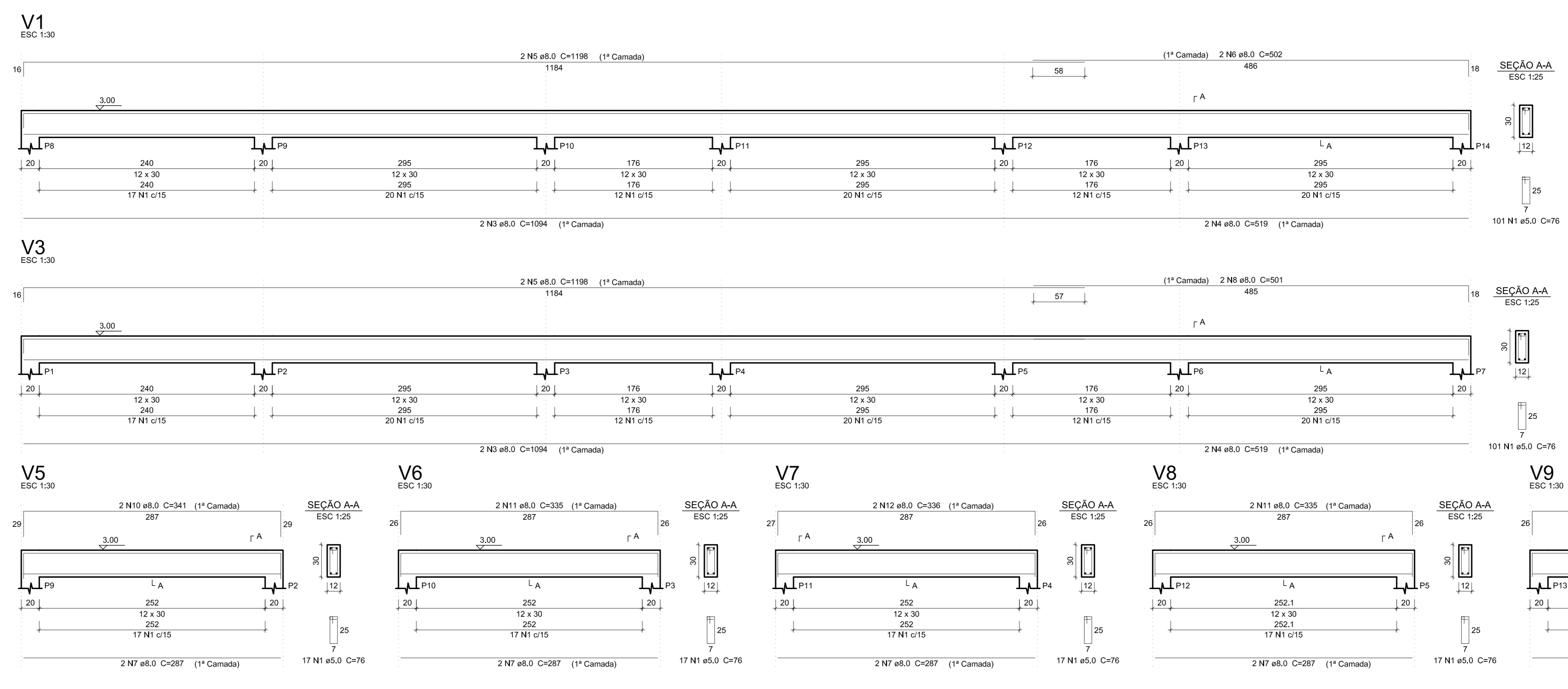
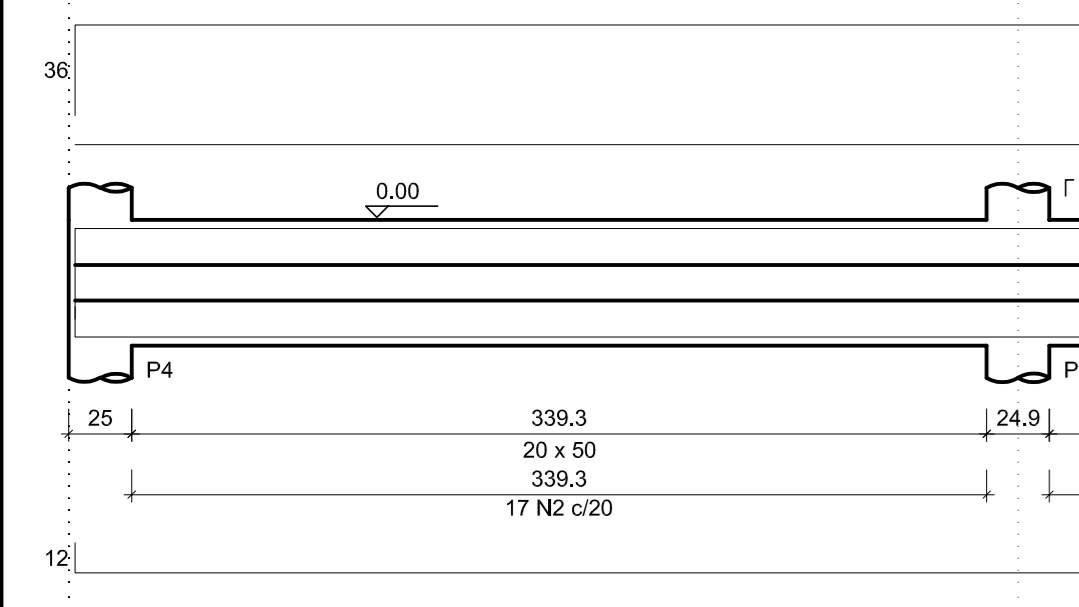
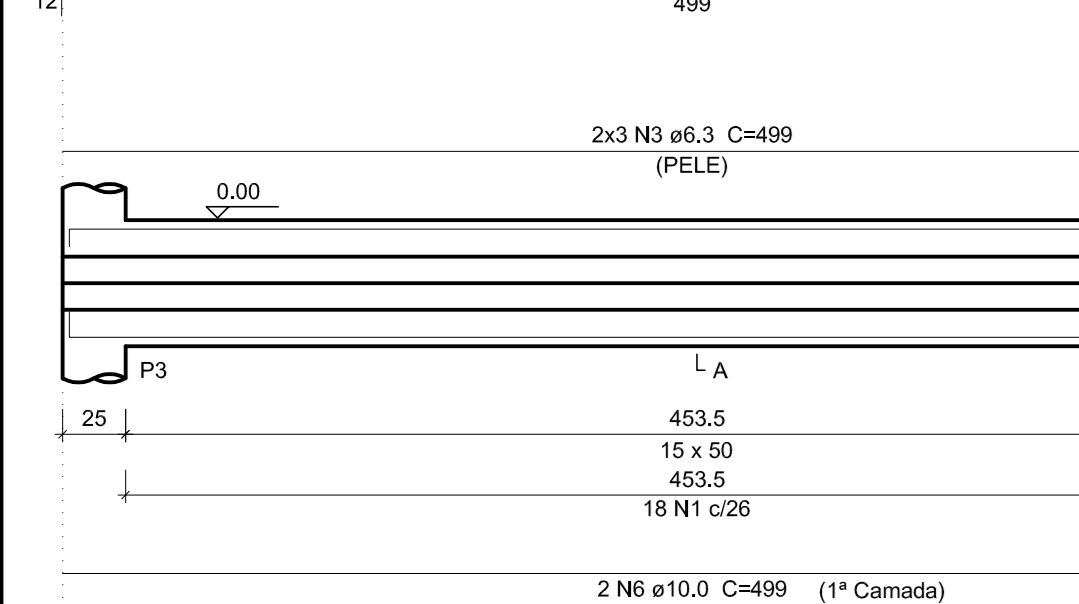
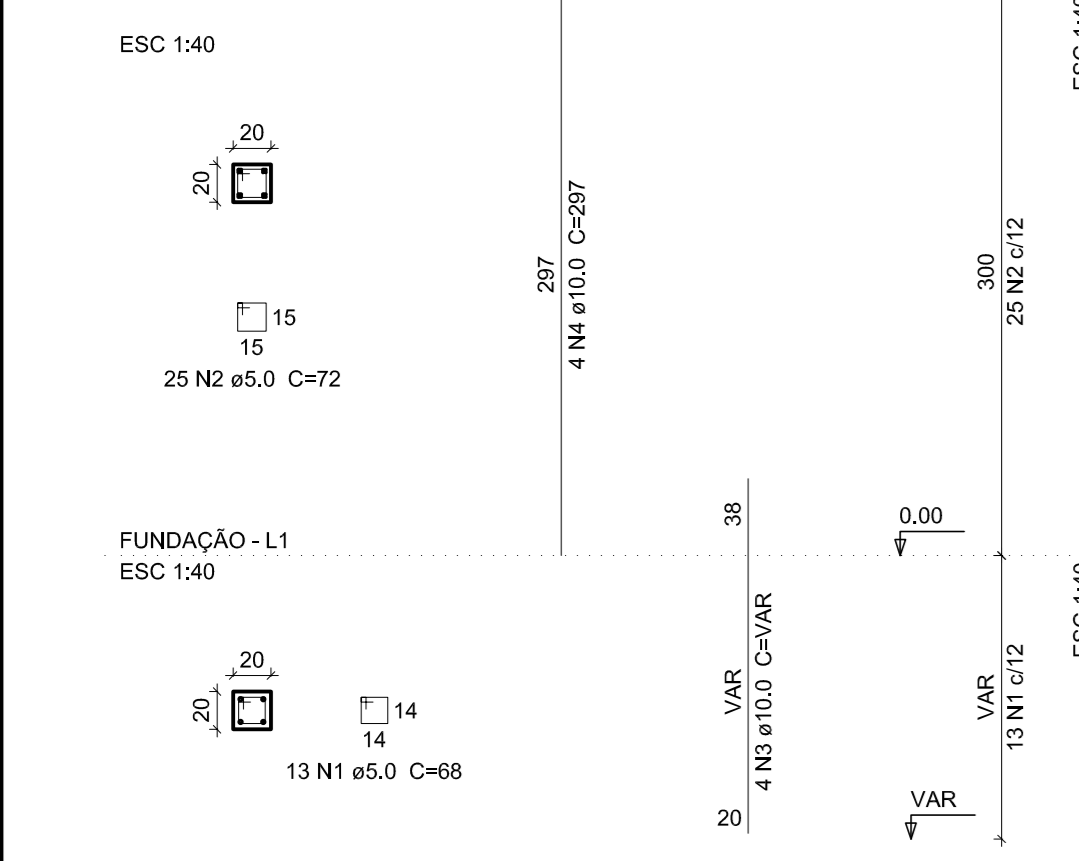
Vol. de concreto total (C-25) = 1,26 m³  
Área de forma total = 6,4 m²



**Resumo do aço**

ACO	DIAM	C.TOTAL (m)	PESO + 10% (kg)
CA50	10,0	291,7	191
CA60	5,0	375,8	63,7
<b>PESO TOTAL</b>			<b>191</b>

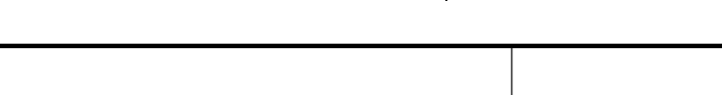
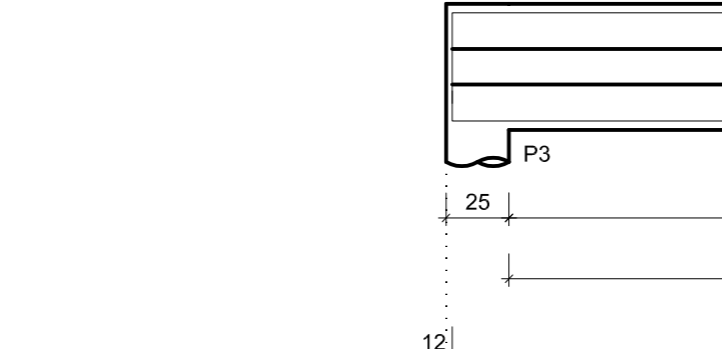
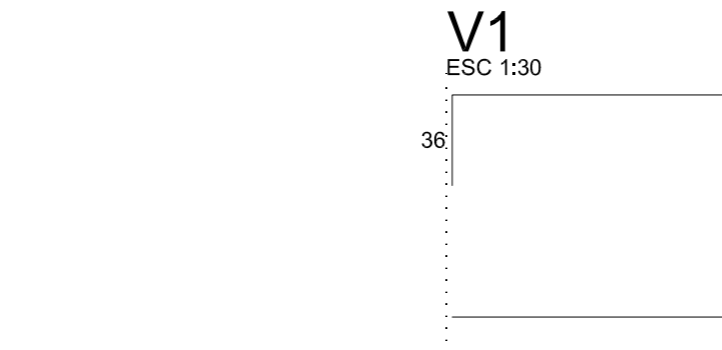
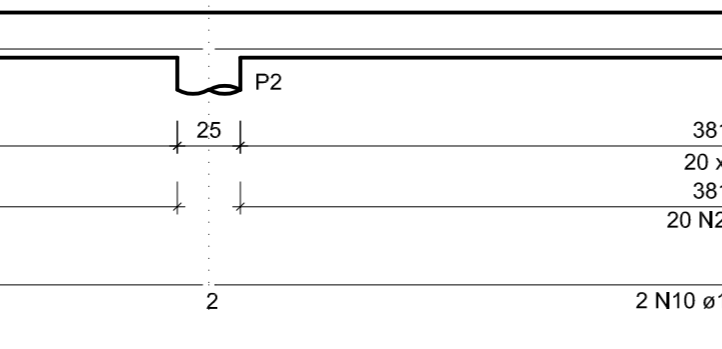
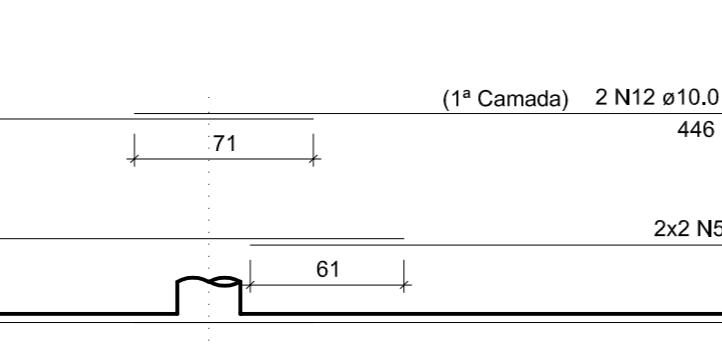
Vol. de concreto total (C-25) = 2,52 m³  
Área de forma total = 50,4 m²



**Resumo do aço**

ACO	DIAM	C.TOTAL (m)	PESO + 10% (kg)
CA50	8,0	147,9	64,2
CA60			
<b>PESO TOTAL</b>			<b>64,2</b>

Vol. de concreto total (C-25) = 1,26 m³  
Área de forma total = 6,4 m²

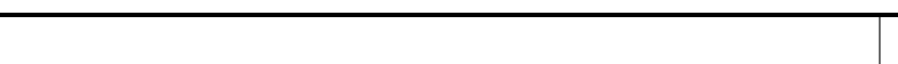
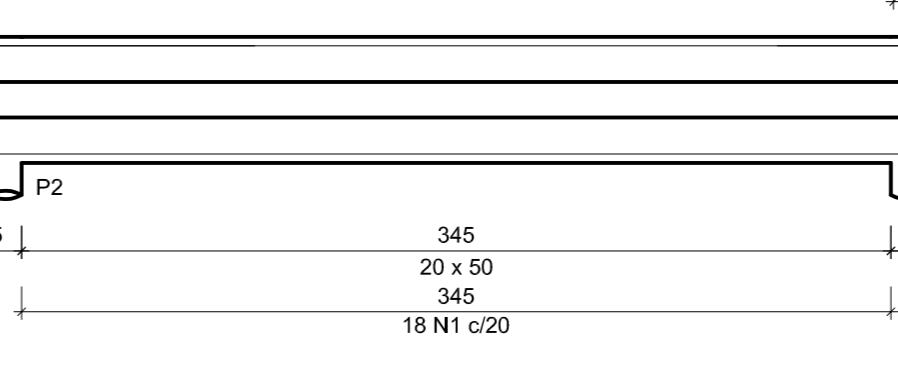
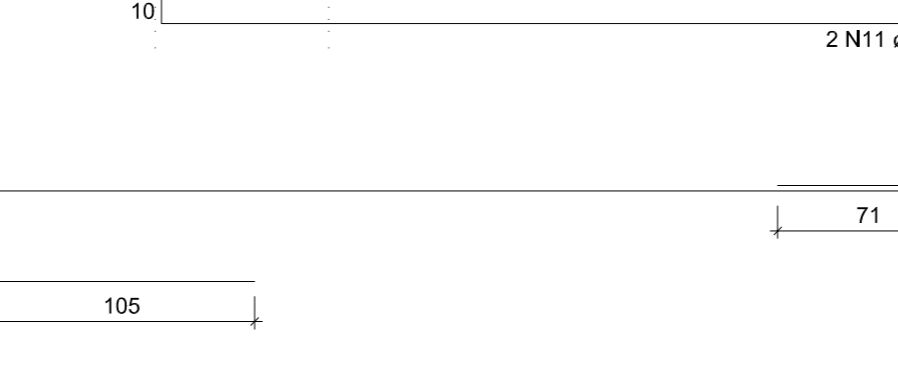
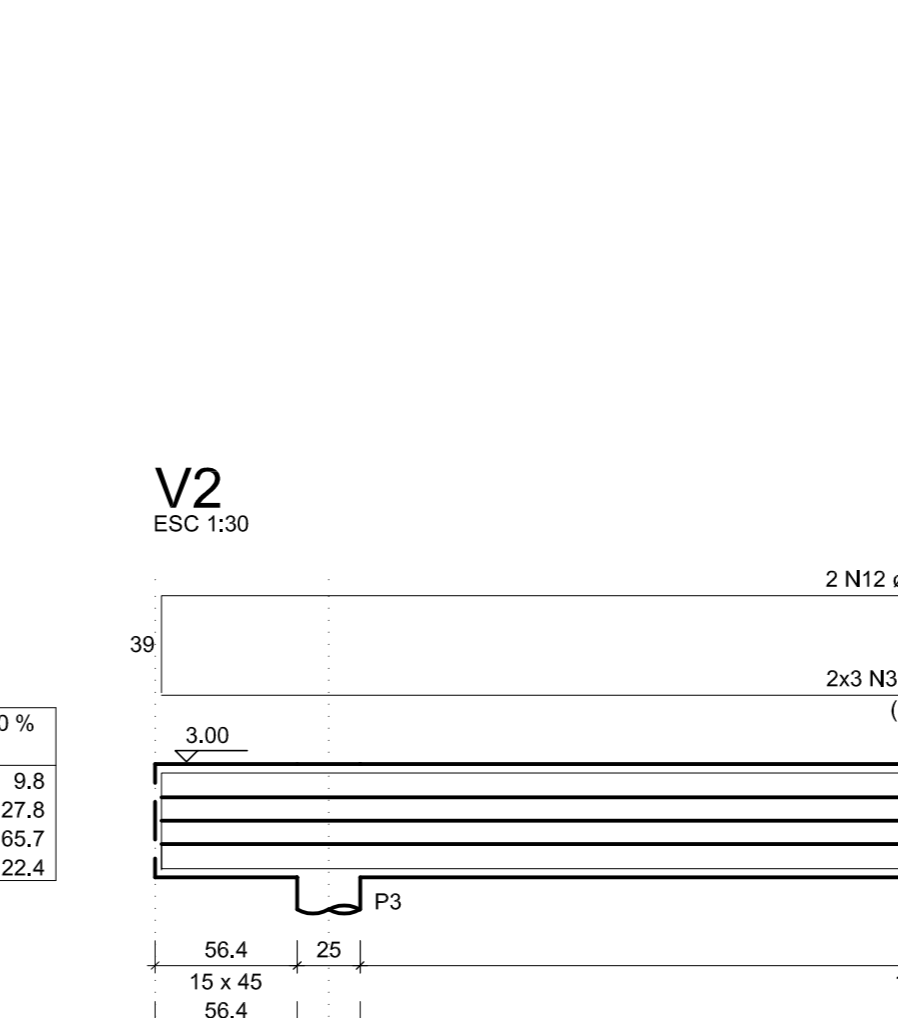
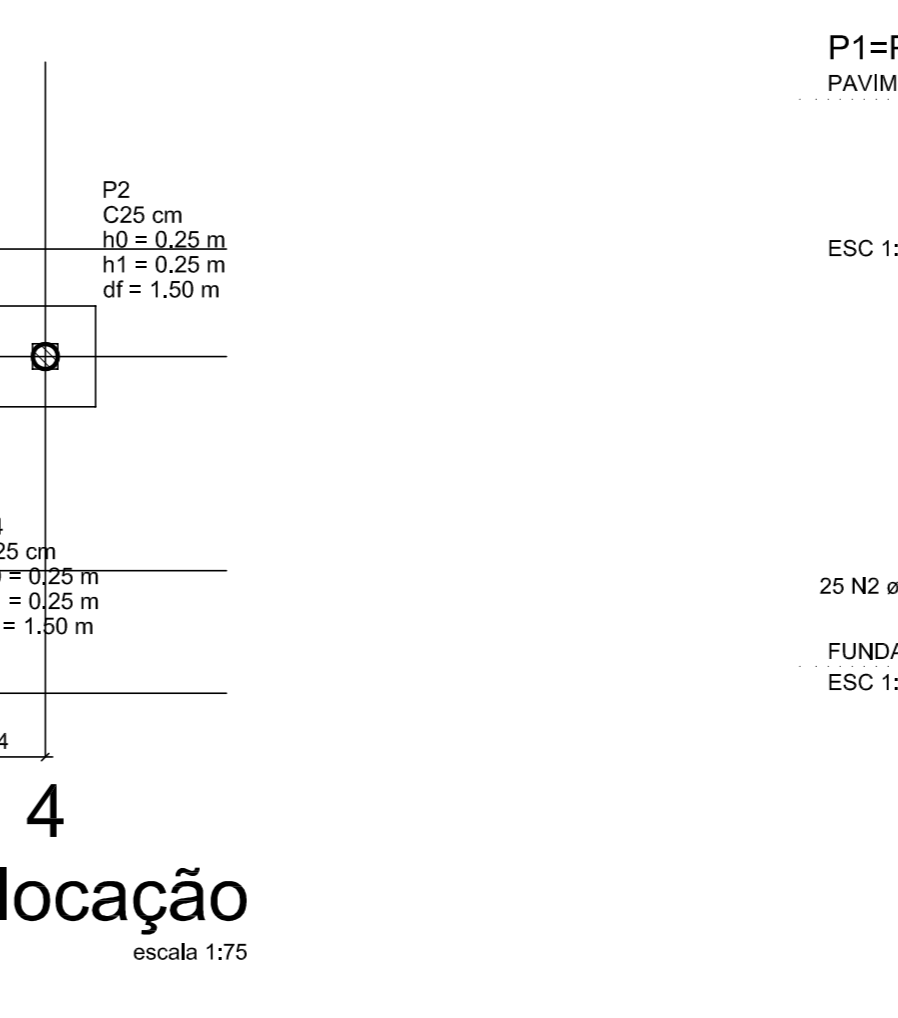
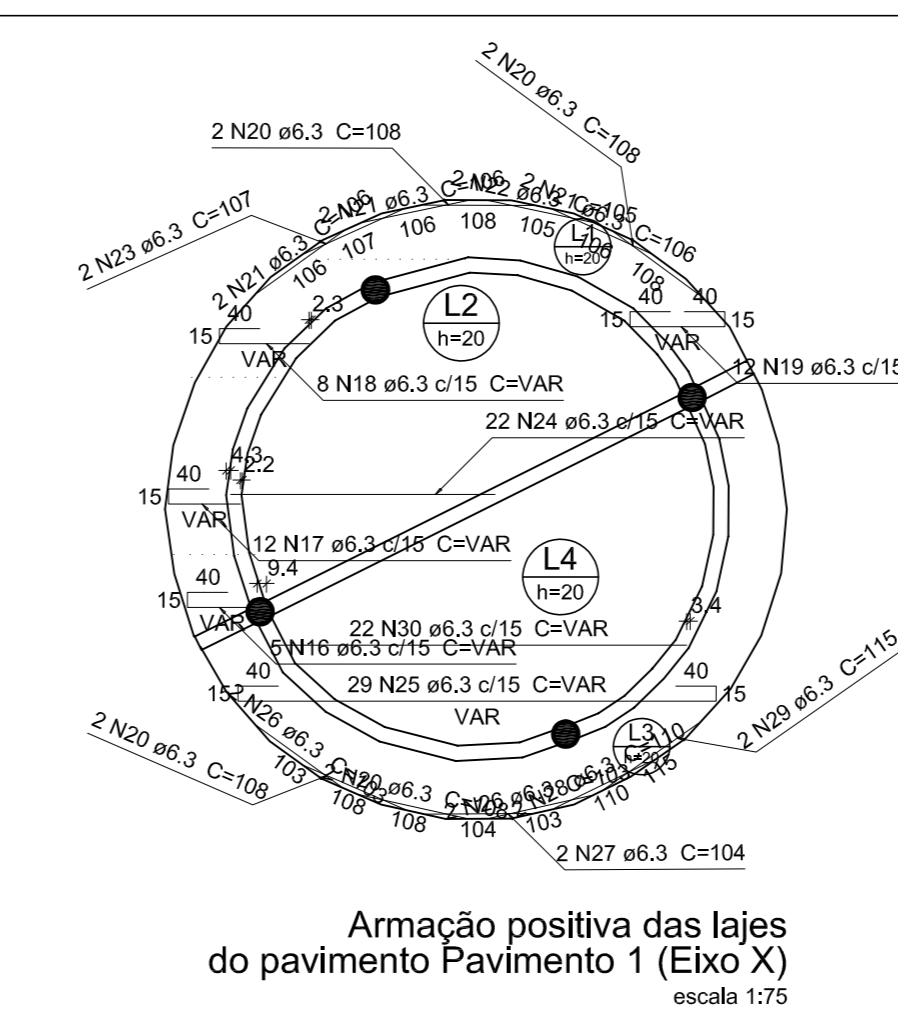
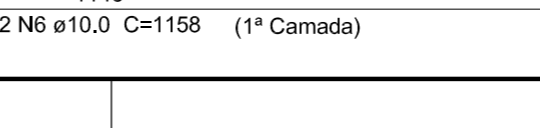
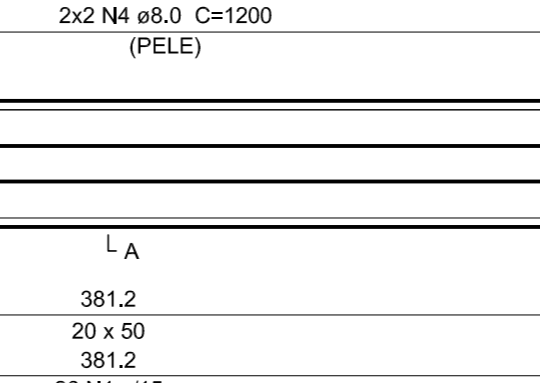
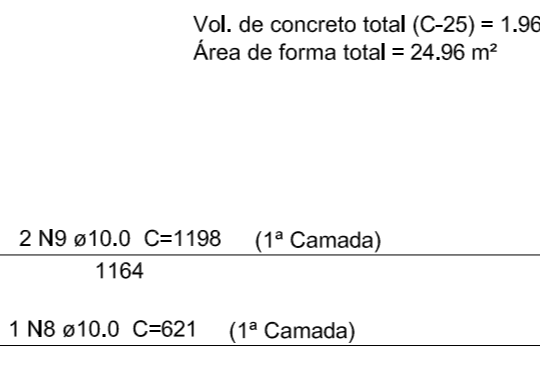
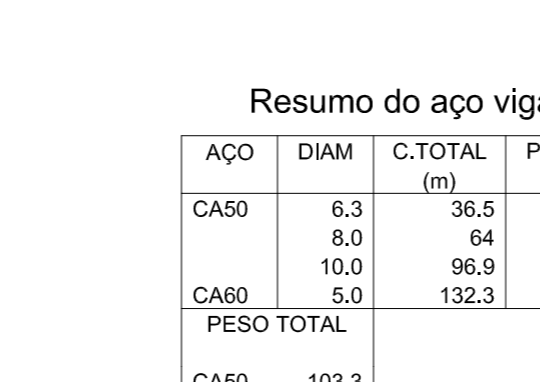
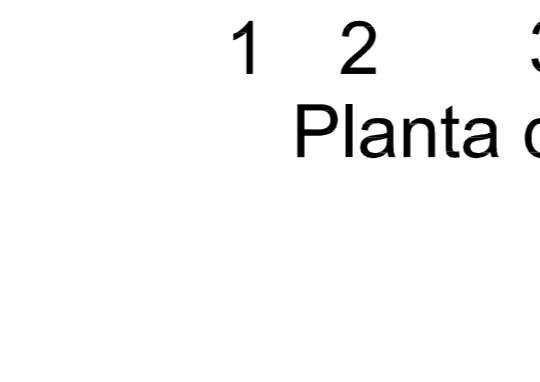
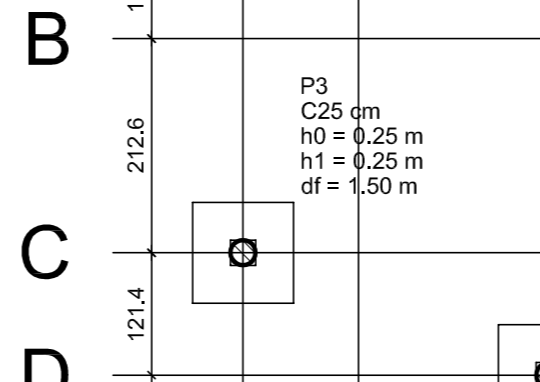
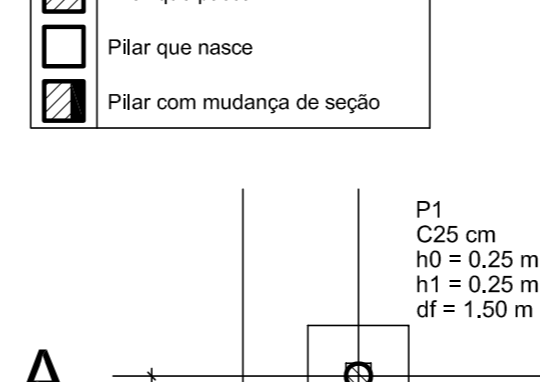


**Resumo do aço**

ACO	DIAM	C.TOTAL (m)	PESO + 10% (kg)
CA50	TR 08646	133,8	130,8
CA60			
<b>PESO TOTAL</b>			<b>130,8</b>

**Resumo do aço**

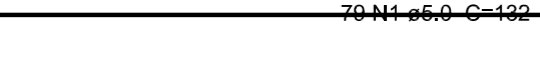
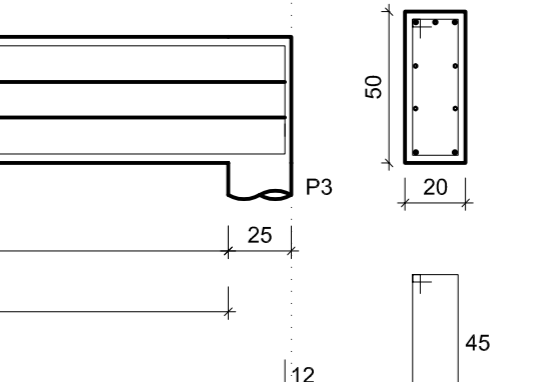
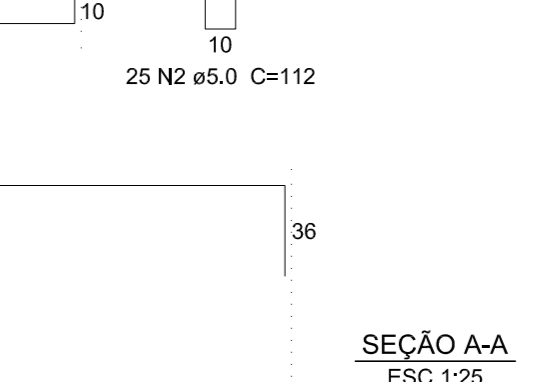
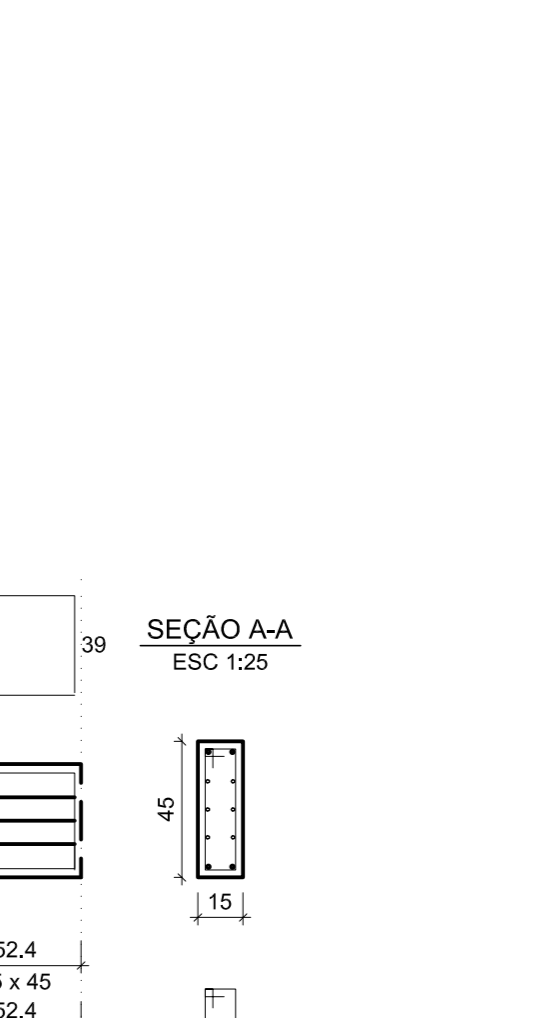
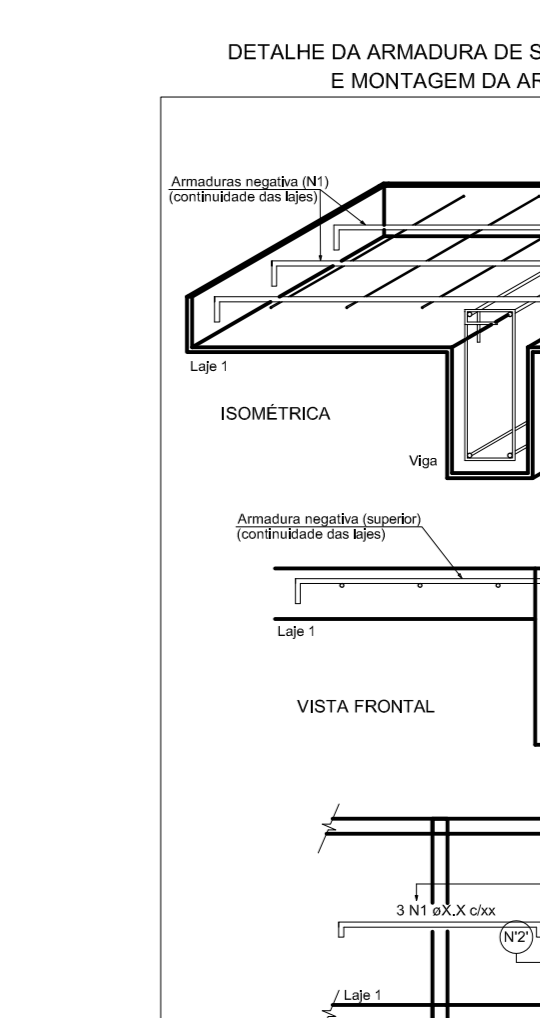
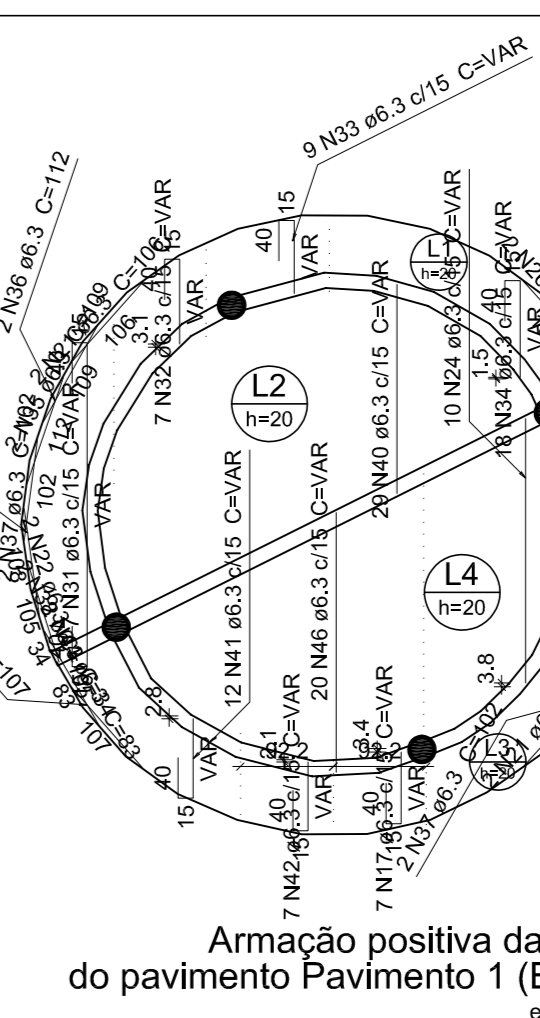
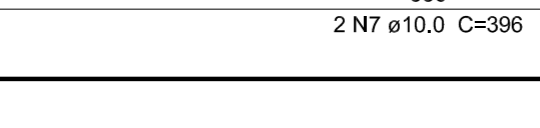
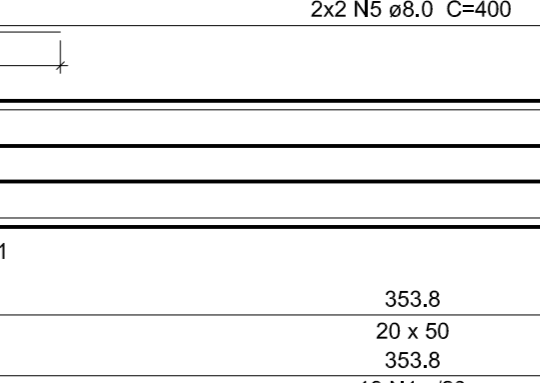
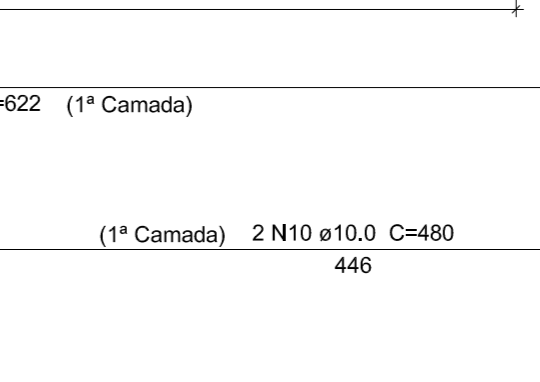
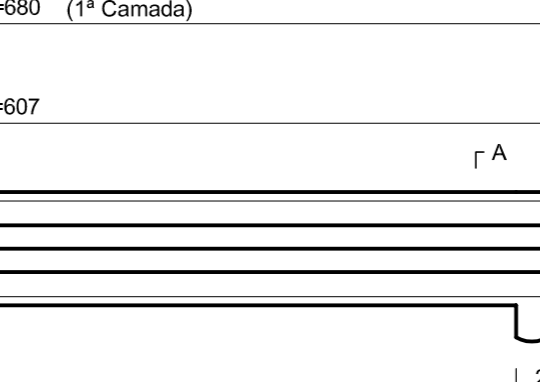
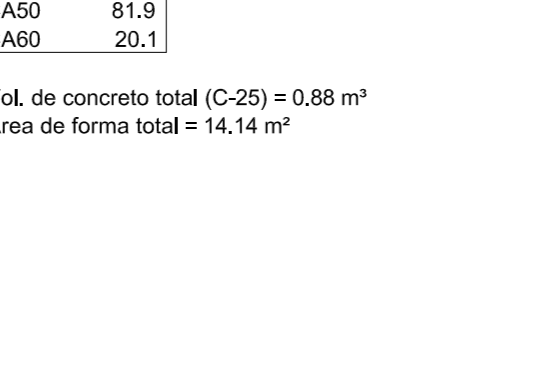
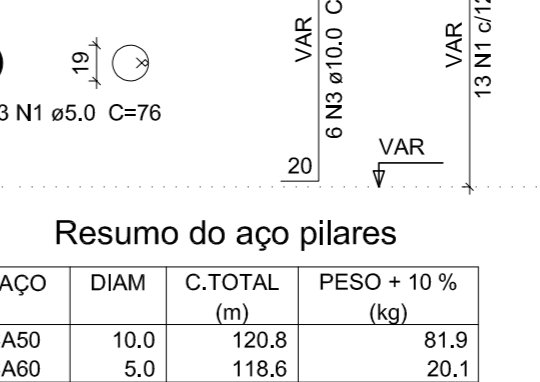
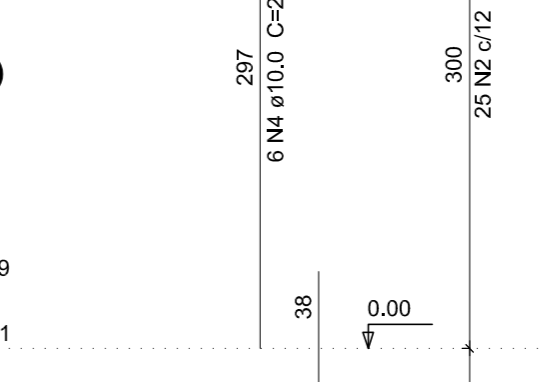
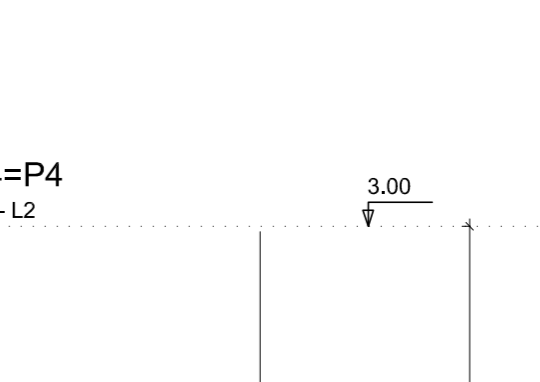
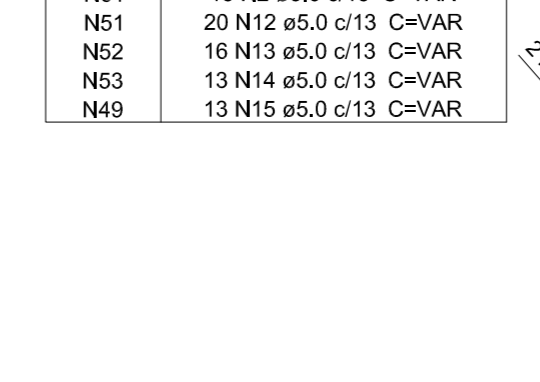
ACO	DIAM	C.TOTAL (m)	PESO + 10% (kg)
CA50	10,0	291,7	191
CA60	5,0	375,8	63,7
<b>PESO TOTAL</b>			<b>191</b>



**Resumo do aço**

ACO	DIAM	C.TOTAL (m)	PESO + 10% (kg)
CA50	10,0	120,8	81,9
CA60	5,0	119,6	20,1
<b>PESO TOTAL</b>			<b>81,9</b>

Vol. de concreto total (C-25) = 0,88 m³  
Área de forma total = 14,14 m²



**SEUMA**  
Secretaria de Urbanismo e Meio Ambiente

**UGP-I**  
PROJETOS ESPECIAIS

**REQUALIFICAÇÃO ESTAÇÃO**

PROJETO: **CÁLCULO EDIFICAÇÕES ESTAÇÃO**

PRÓPRIETÁRIO: PREFEITURA MUNICIPAL DE SOBRAL  
LOCAL: RUA 1ª DE JANEIRO, BAIRRO VILA UNIÃO, SOBRAL/CE

CONTEÚDO:  
1 VESTIBÁRIO 3 5 8  
2 QUIOSQUE 4 6 7

FASE DO PROJETO: EXECUTIVO  
ESCALA: INDICADA  
DATA: MARÇO/2018  
PRANCHAS: 02/07

ARQ. CAMPELO COSTA  
CAU-CE 477163

ARQ. ANDRÉ CARVALHO  
CAU-CE 477793

ARQ. MARCELO BARREIRA  
CAU-CE 463164

ENGR. KERMBON LUIZ  
CREA-CE 182810

TEC. NAZARENO LINHARES  
CREA-CE 1304660

ENGR. FIDELIX DE ARAGÃO  
CREA-CE 10000

COLABORADORES:  
PRISCILLA BARCELOS  
MARLEY SALES  
RONNEY GUIMARÃES

A PROPRIEDADE INTELECTUAL DO PRESENTE PROJETO É RESERVADA AOS SEUS AUTORES, DE ACORDO COM A LEGISLAÇÃO PERTINENTE. O USO DESTES PROJETO OU DE QUALQUER DE SEUS ELEMENTOS, QUE NÃO FORAM OS DETERMINADOS, SERÃO CONSIDERADOS COMO APROPRIAÇÃO LÍCITA E SERÃO APLICADAS AS LEIS QUE DEFENDEM DITOS DIREITOS A TODOS OS EFETOS.