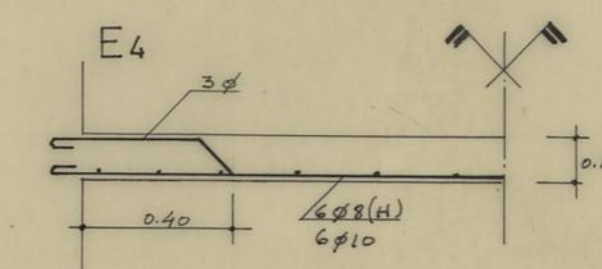
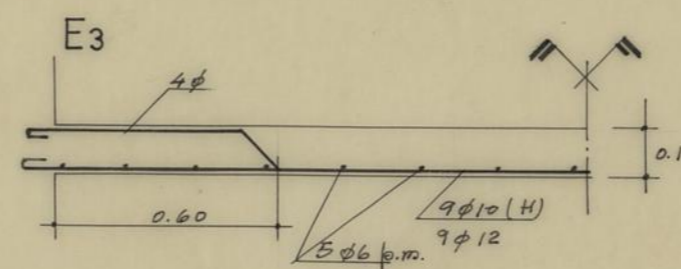
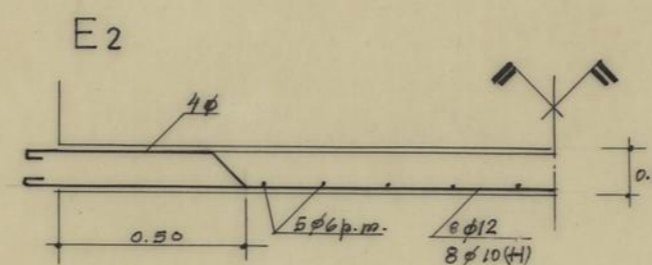
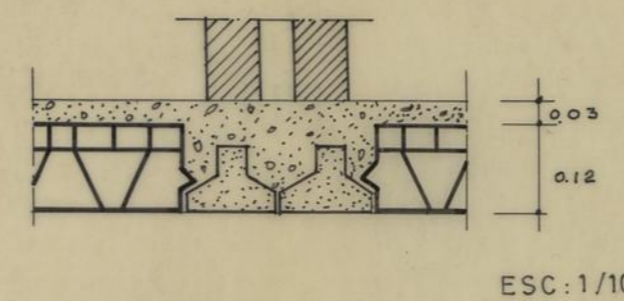
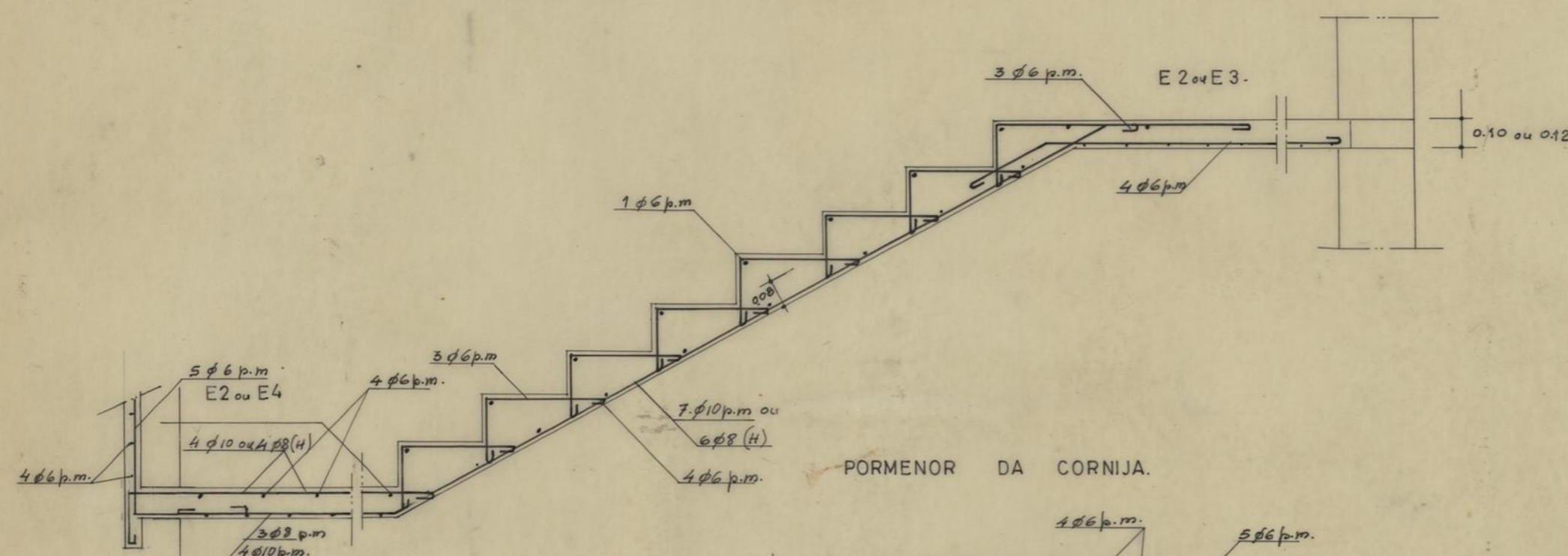


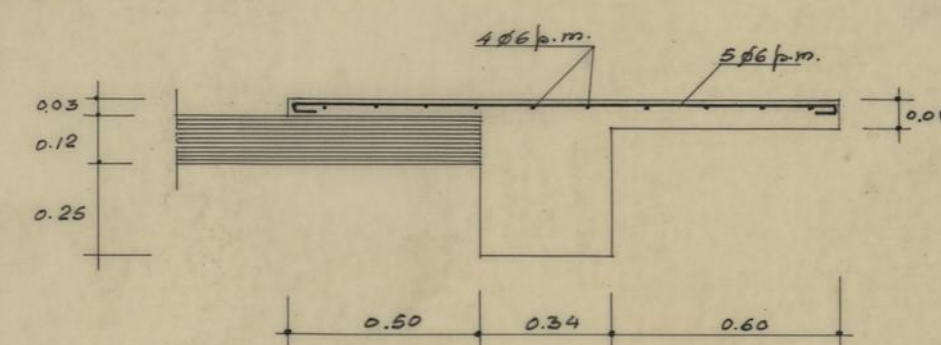
CORTE-1-1



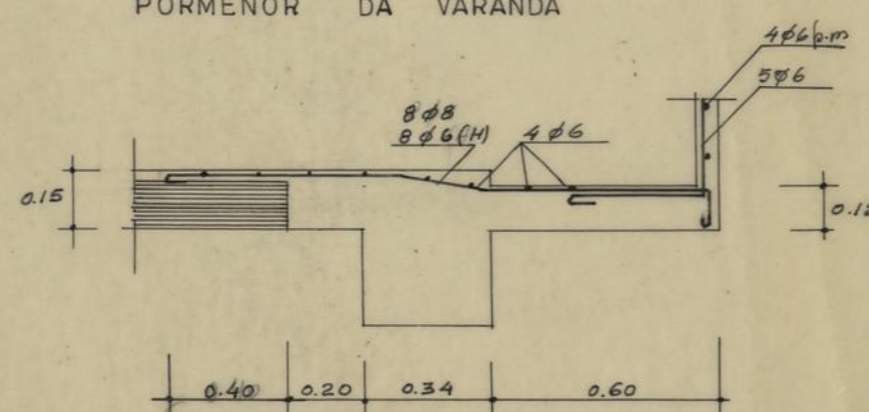
PORMENOR DA ESCADA



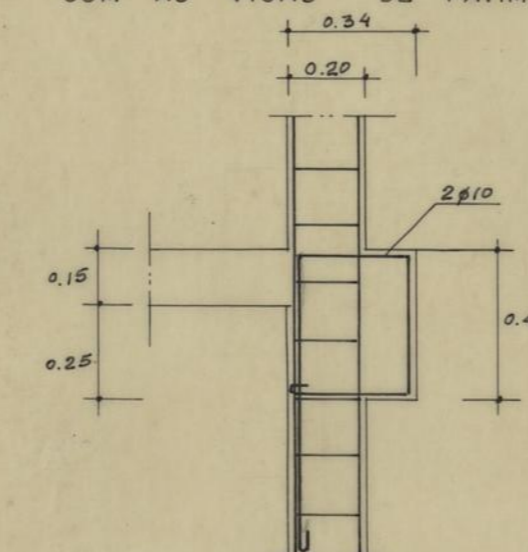
PORMENOR DA CORNIJA



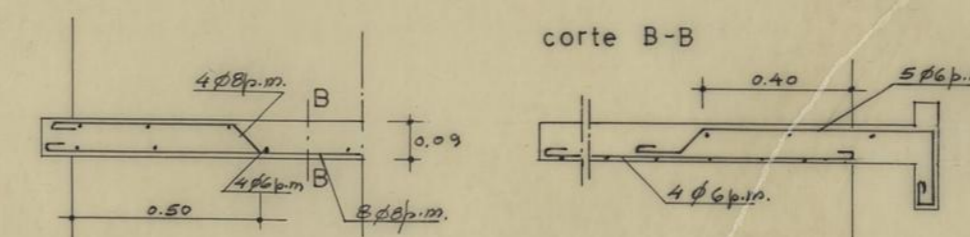
PORMENOR DA VARANDA



PORMENOR DA LIGAÇÃO DOS PILARES COM AS VIGAS DE PAVIMENTO.




PORMENOR DA PALA DA CAIXA DE ESCADA.



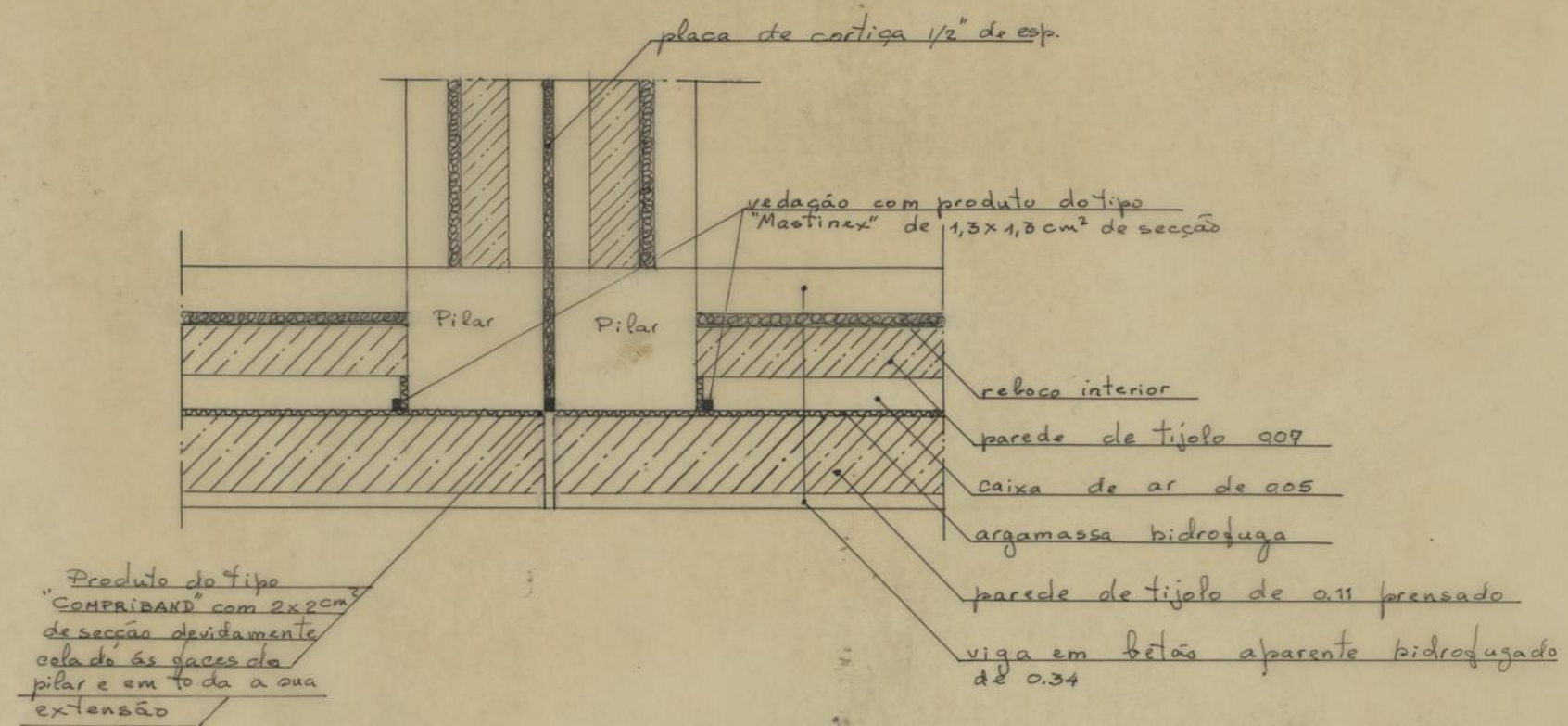
LAJES	DESIGNAÇÃO	ARMADURA DE DISTRIBUIÇÃO
L1	Maprel A-33	4 φ 6 p. m.
LT1	Maprel A-02	

NOTA:

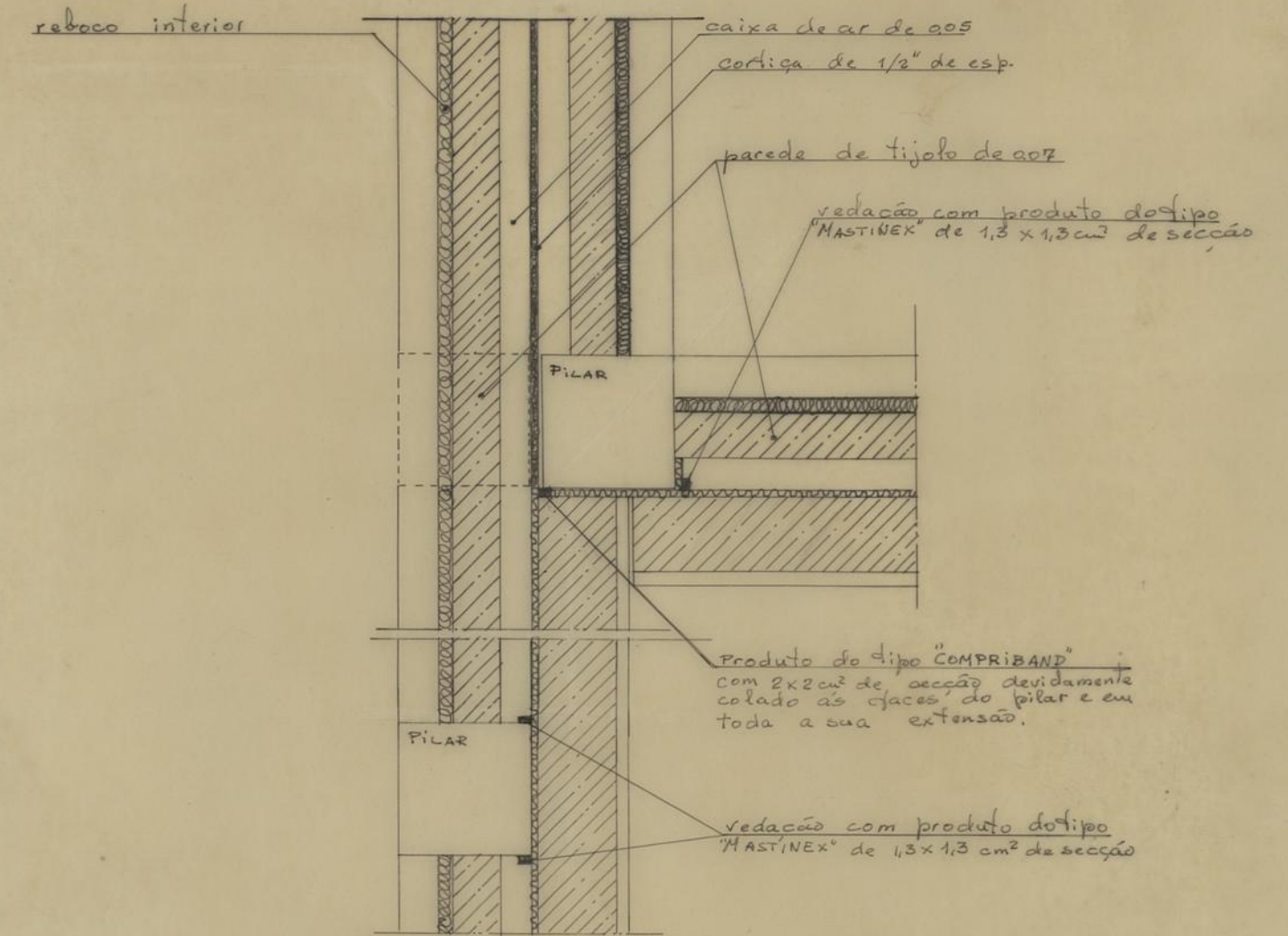
As lajes do tecto levam um tarugo central de betão c/ 2 φ 10.
Este tipo de pavimento e indicado a título exemplificativo podendo ser qualquer betão pré-fabricado sujeito a aprovação da D.S.H.

CAMARA MUNICIPAL DO PORTO D. S. P. M. REPARTIÇÃO DE CONSTRUÇÃO DE CASAS.	GRUPO DE MORADIAS POPULARES DA CORUJEIRA	 A BRIL DE 1967
	LAJES DE PAVIMENTO E DE ESCADAS.	
O ENG. CHEFE:	O ENGENHEIRO: <i>Ad. Alves</i>	O DESENHADOR: <i>J. O. Esteves</i> <i>José Maldonado</i>

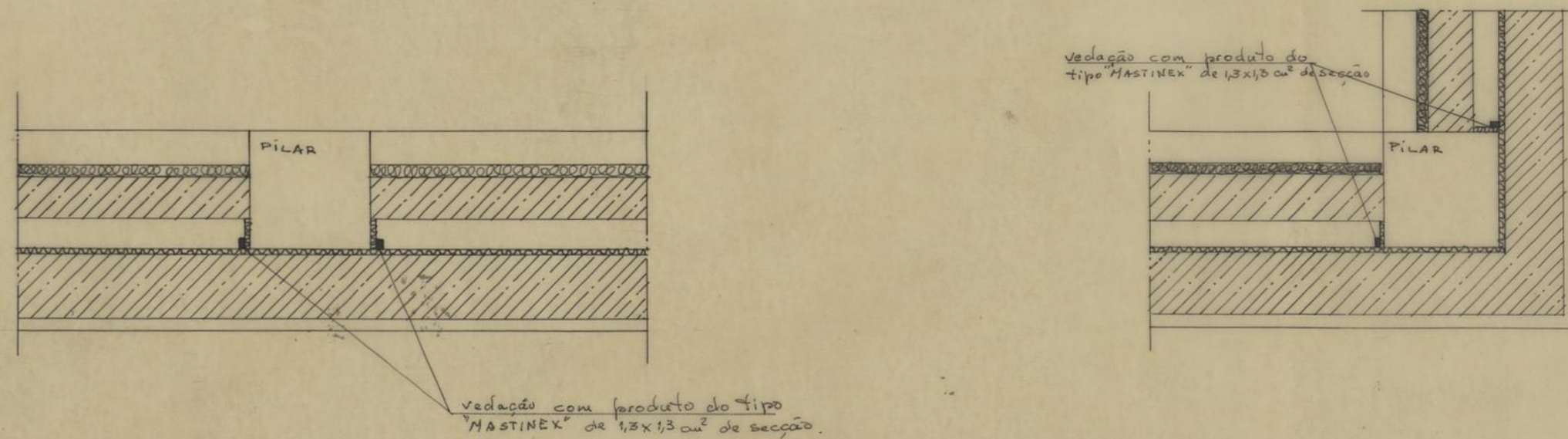
PORMENOR DAS JUNTAS DE DILATAÇÃO



PORMENOR DAS JUNTAS DE DILAÇÃO NA JUNÇÃO DOS EDIFÍCIOS

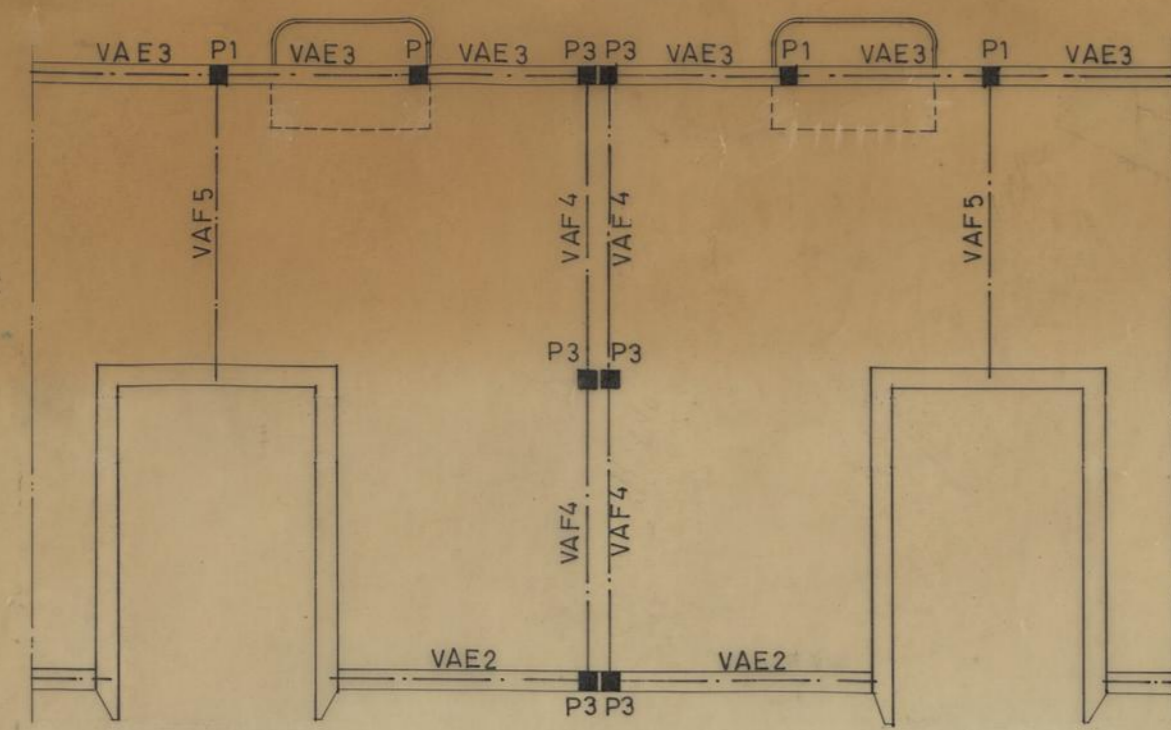


PORMENOR DA VEDAÇÃO DOS PILARES DAS FACHADAS

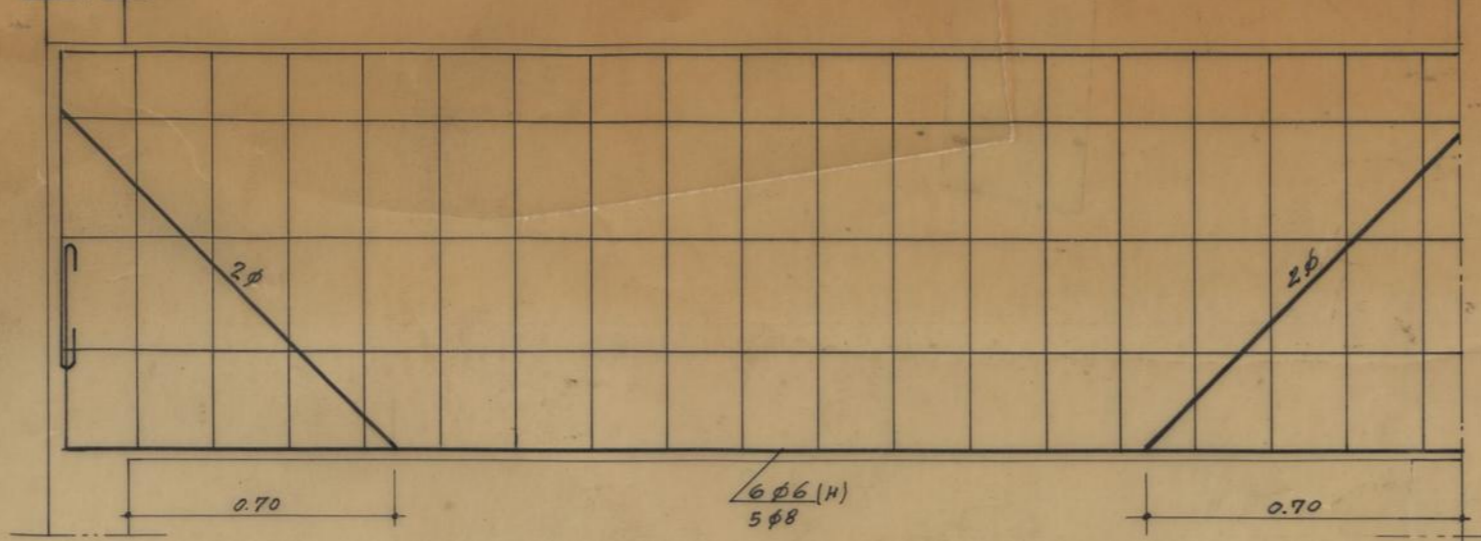


CAMARA MUNICIPAL DO PORTO	GRUPO DE MORADIAS POPULARES DA CORUJEIRA.		
	D. S. P. M.	JUNTAS DE DILAÇÃO.	
REPARTIÇÃO DE CONSTRUÇÃO DE CASAS	ABRIL DE 1967		ESC - 1/10
O ENG. CHEFE.	O ENGENHEIRO: <i>Abreu</i>	O DESENHADOR: <i>Jose Maldonado</i>	

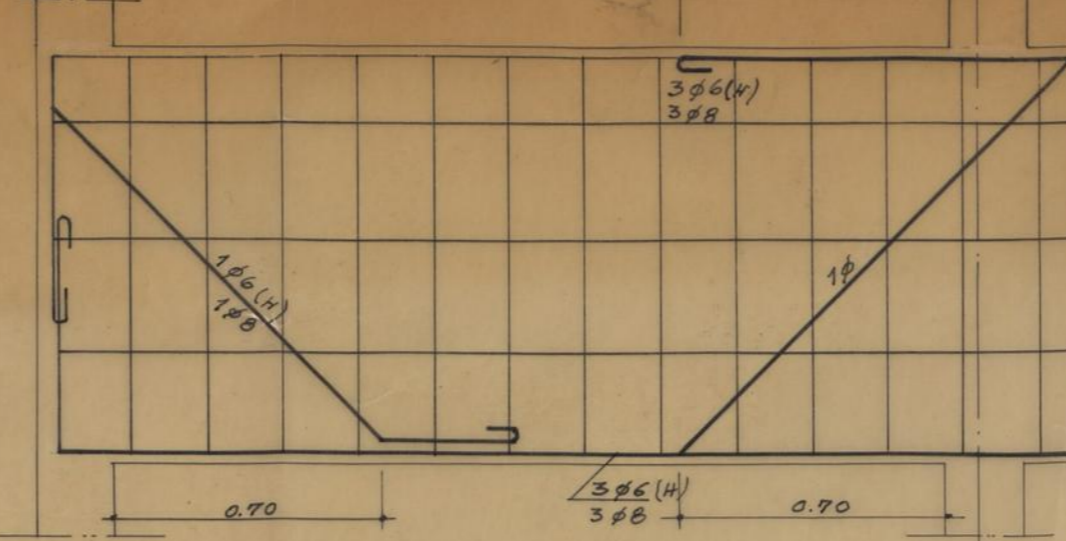
TIPO - A



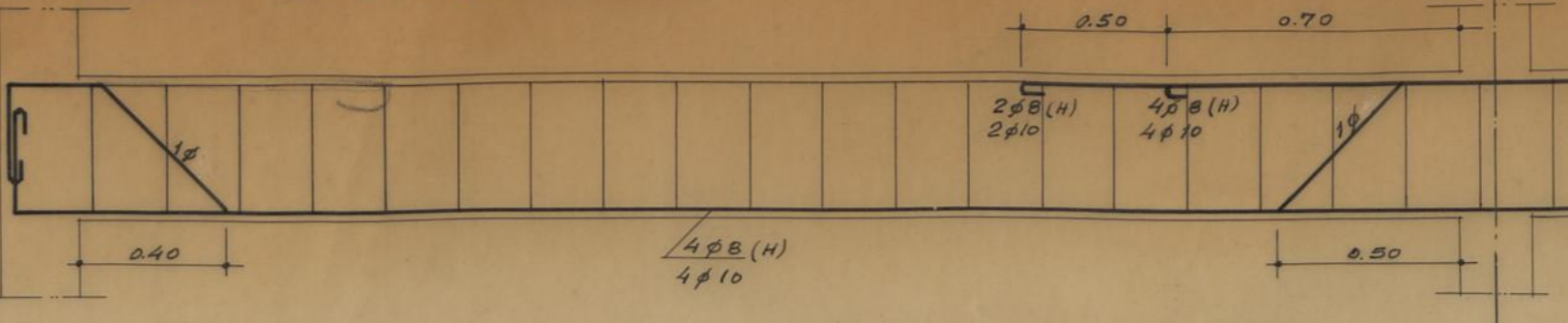
VAE2



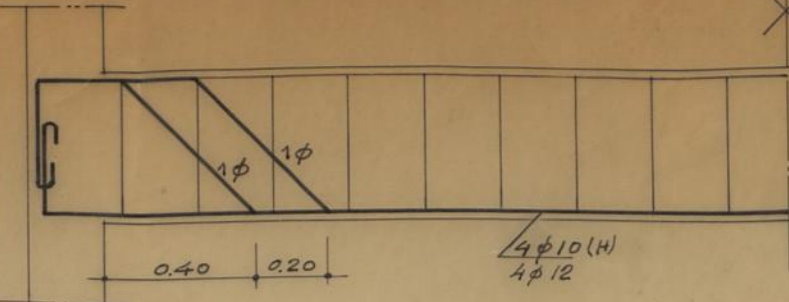
VAE5



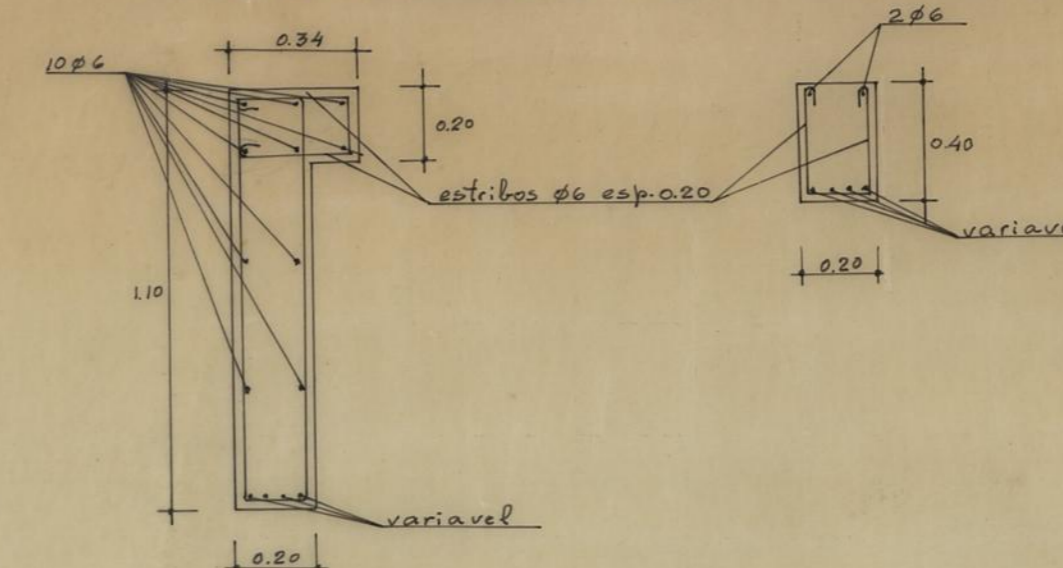
VAF4-VBF4-VCF4-VDF4



VAF5-VBF5-VCF5-VDF5



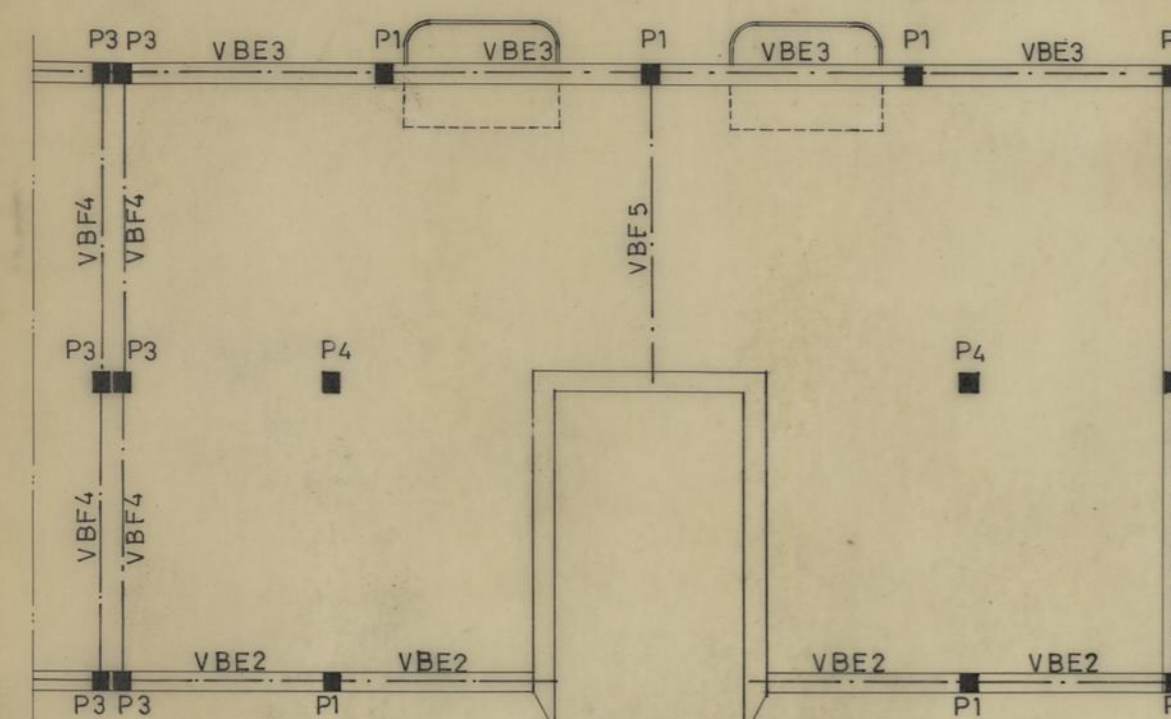
VIGAS DE ENVASAMENTO (V.E.) VIGAS DE FUNDAÇÃO (V.F.)



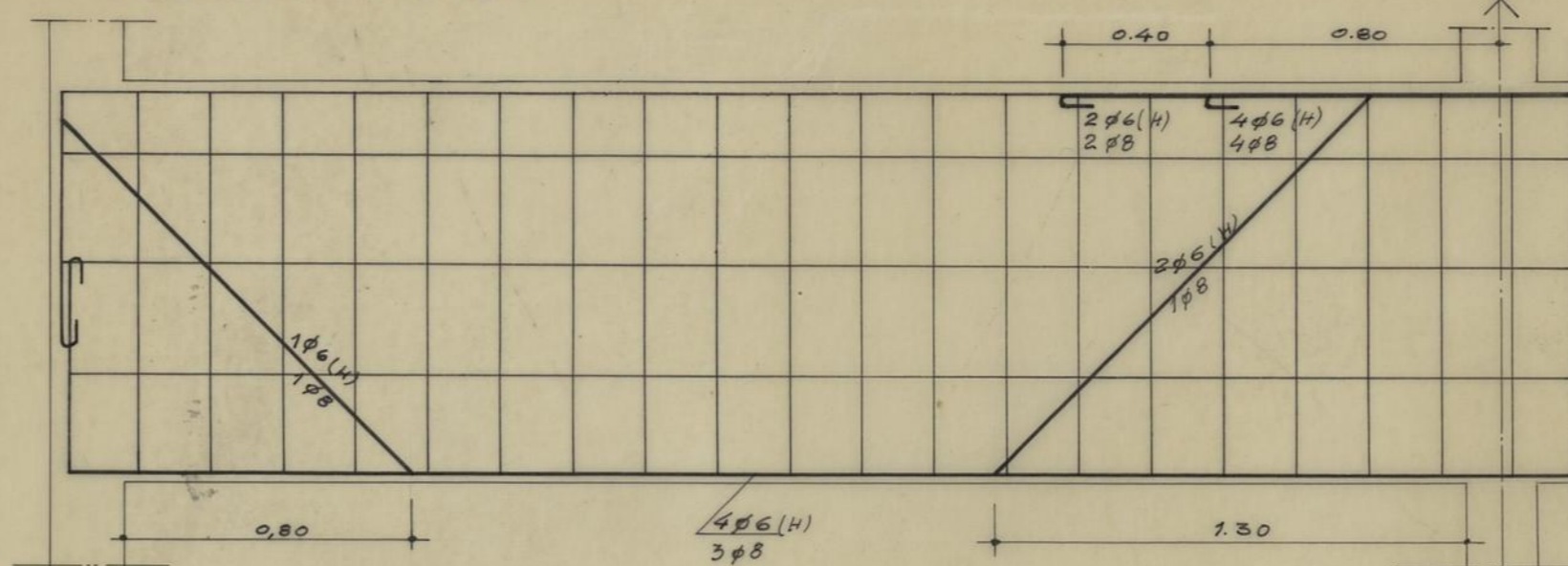
Características dos pilares após o nível do 1º piso

DESIGNAÇÃO	ARMADURAS	SECÇÃO	CINTAS
P1	Até à 1ª lage	Aa 4φ16	20 X 20
	Depois da 1ª lage	Aa 4φ10	20 X 20
P2	Até à 1ª lage	Aa 4φ12	20 X 20
	Depois da 1ª lage	Aa 4φ10	20 X 20
P3	Até à 1ª lage	Aa 4φ12	20 X 20
	Depois da 1ª lage	Aa 4φ10	20 X 20
P4	Até à 1ª lage	Aa 4φ16	20 X 20
	Depois da 1ª lage	Aa 4φ10	20 X 20

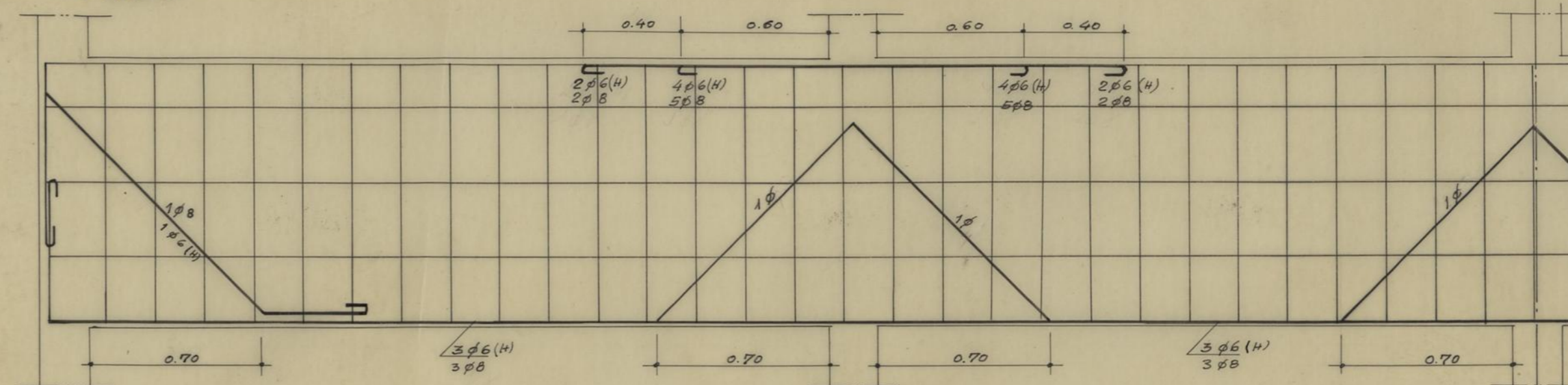
TIPO - B



VBE-VCE1-VDE1



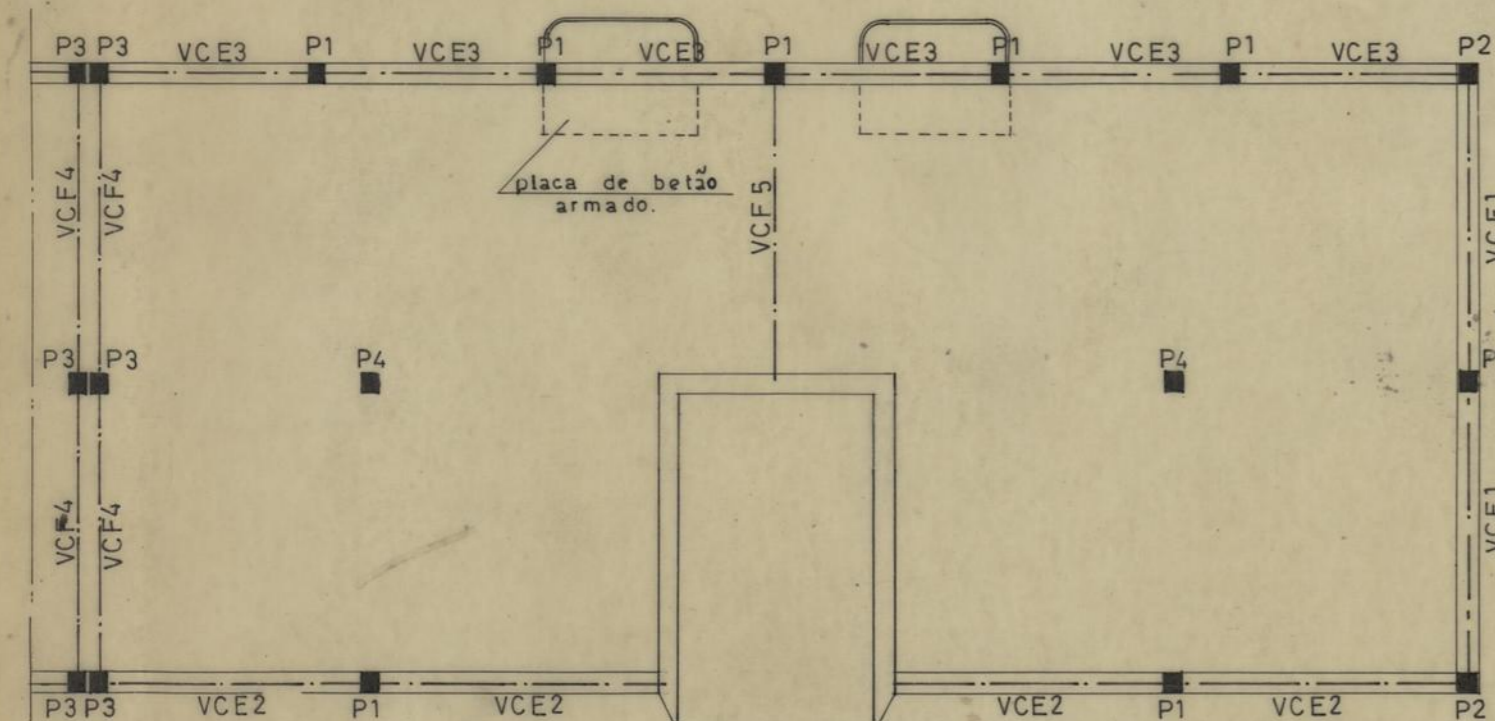
VBE5



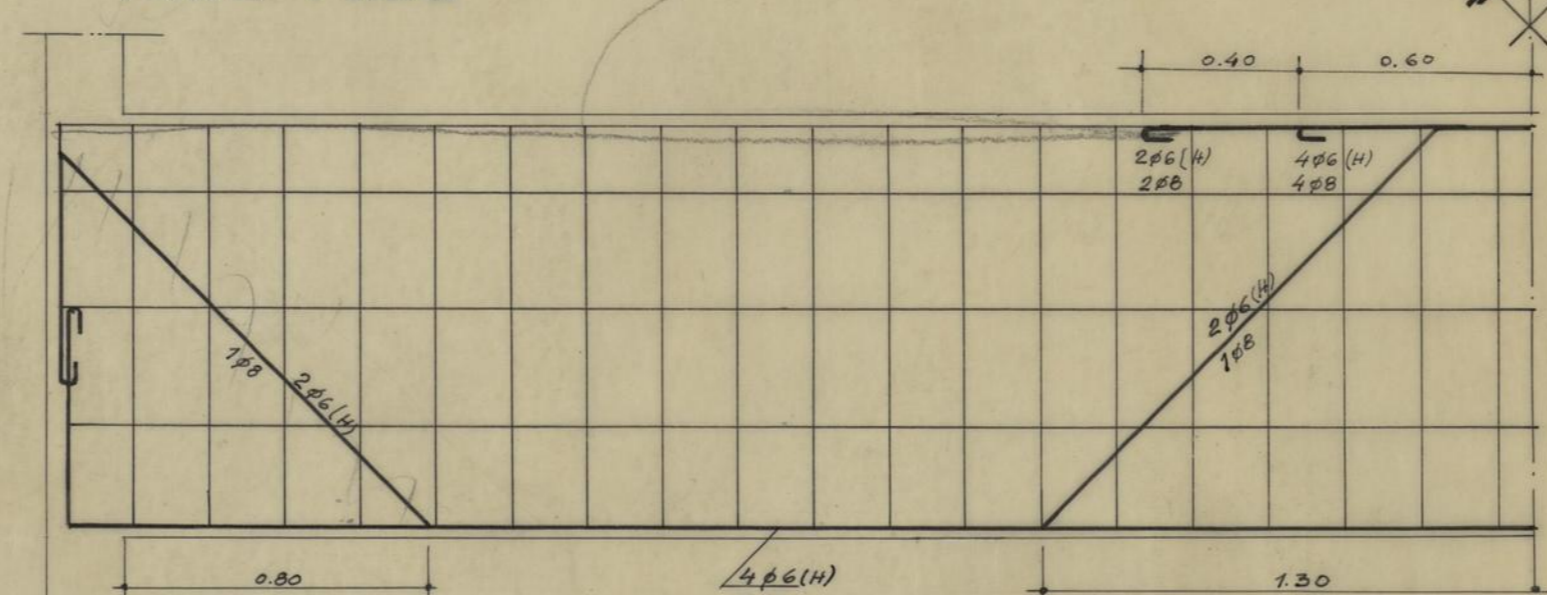
Características dos pilares desde a sapata de fundação até ao nível do 1º piso.

ARMADURA	SECÇÃO	CINTAS
P1	20x34	6φ16
P2	34x34	6φ12
P3	20x34	6φ12
P4	20x20	5φ16

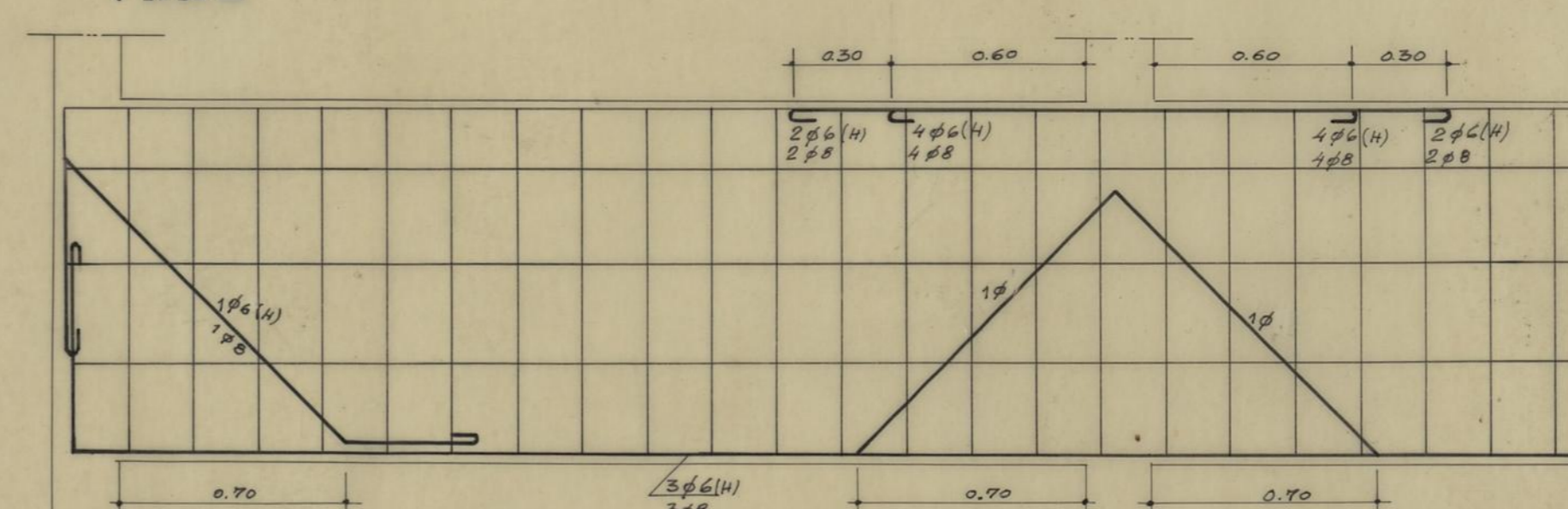
TIPO - C



VCE2-VBE2



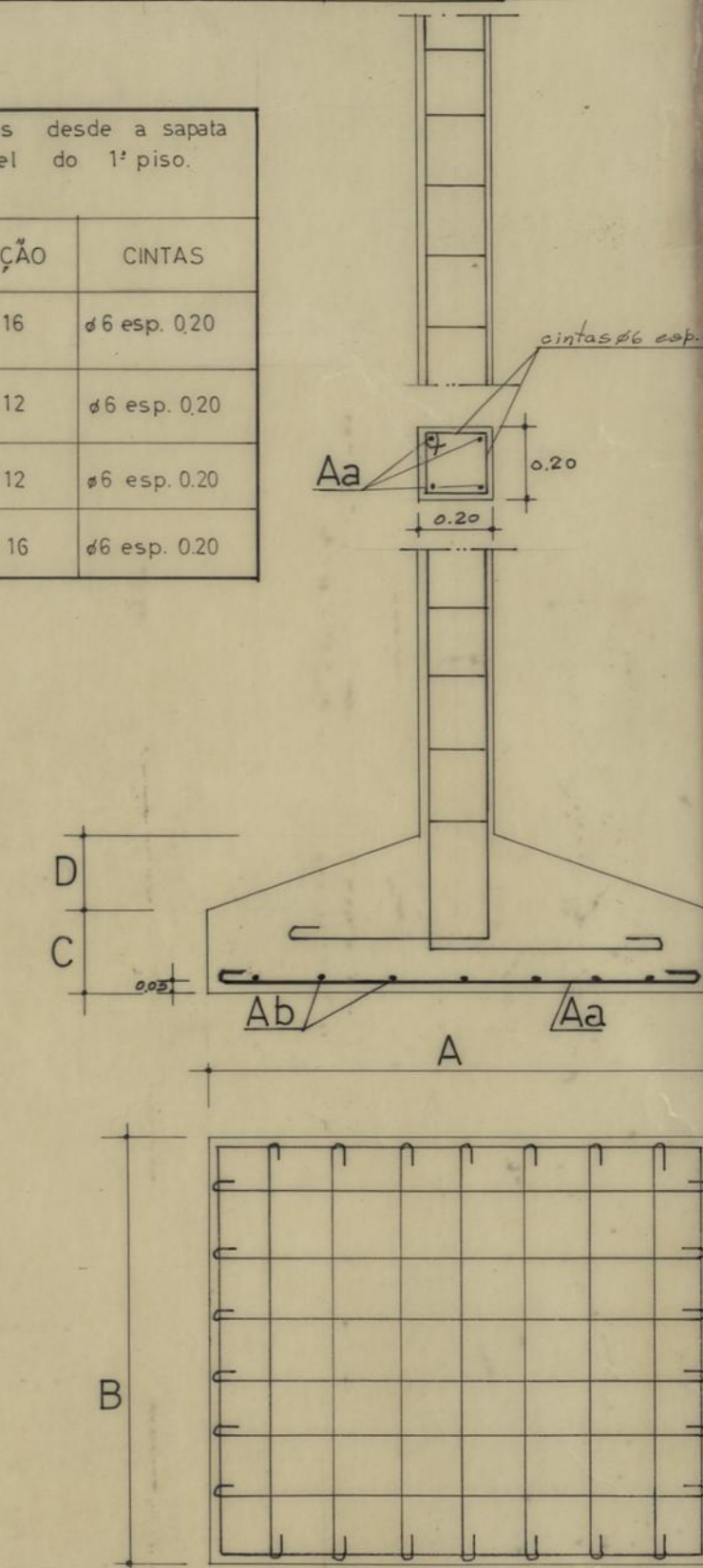
VDE2



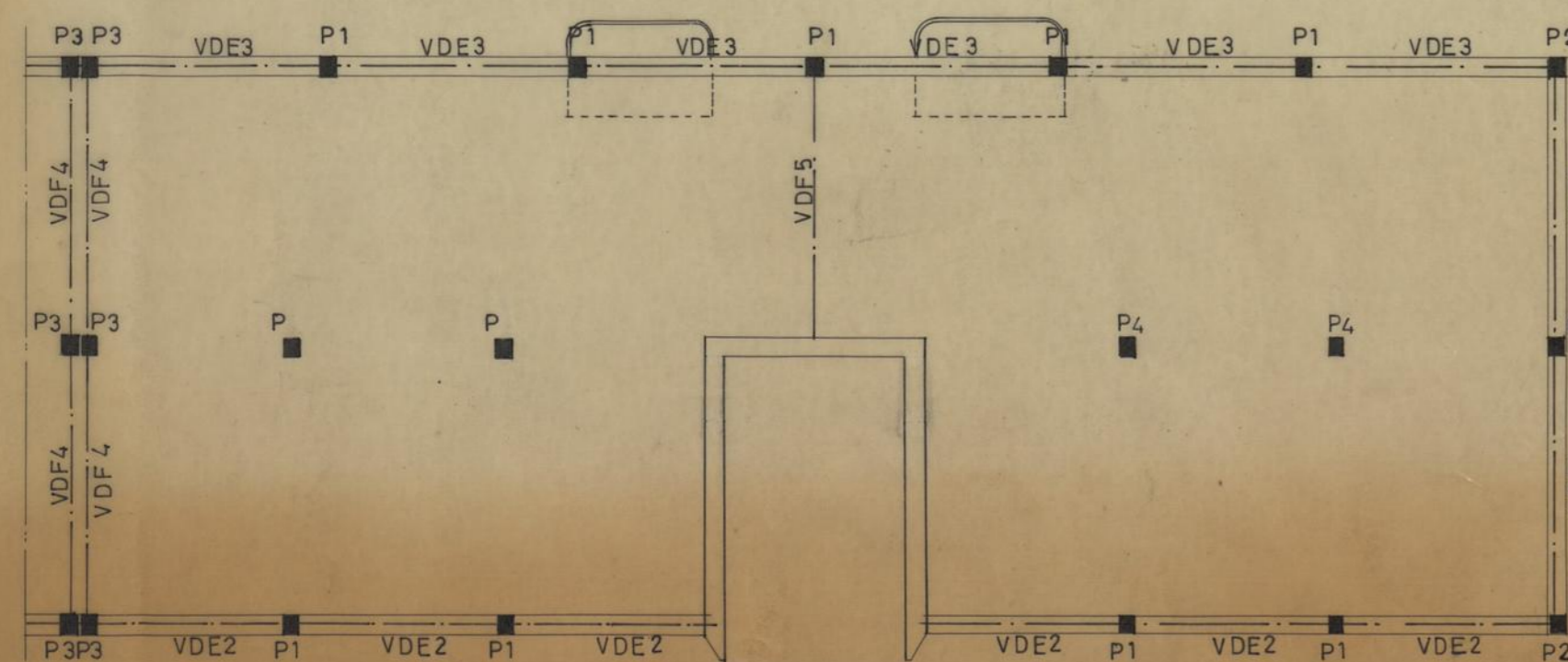
- SAPATAS -

DESIGNAÇÃO	SECÇÃO				ARMADURAS	
	A	B	C	D	Aa	Ab
S1	110	180	25	20	10φ10 p.m.	10φ12 p.m.
S2	130	130	25	20	10φ10 p.m.	10φ10 p.m.
S3	175	205	25	40	10φ12 p.m.	12φ12 p.m.
S4	140	140	25	20	10φ12 p.m.	10φ12 p.m.

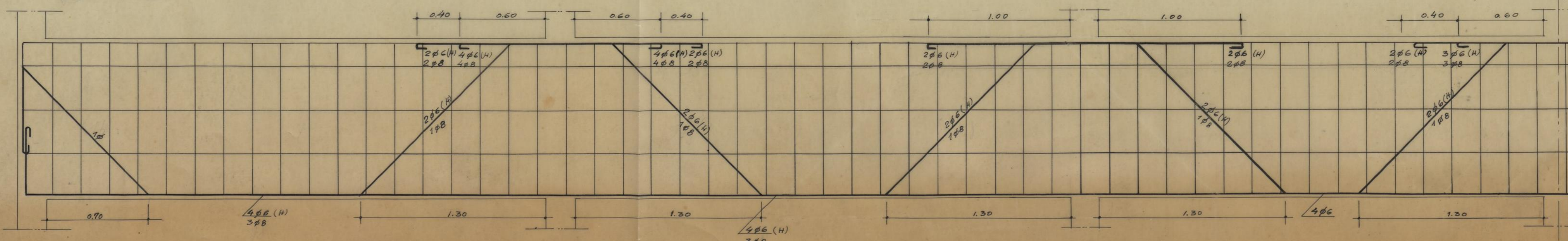
NOTA: OS PILARES P3 TÊM UMA ÚNICA SAPATA.



TIPO - D



VDE5-VCE5

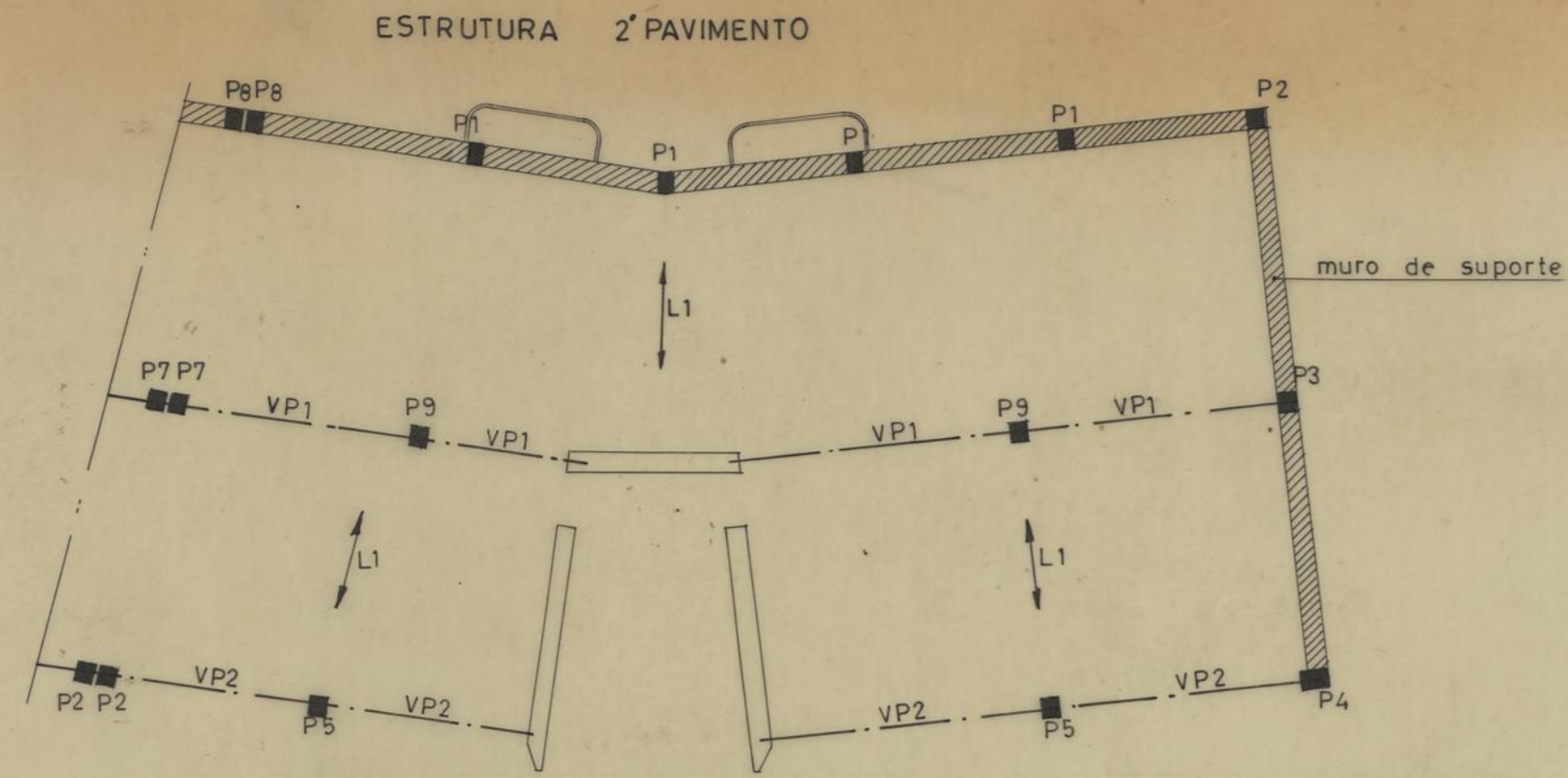


CAMARA MUNICIPAL DO PORTO GRUPO DE MORADIAS POPULARES DA CORUJEIRA. MARÇO DE 1967

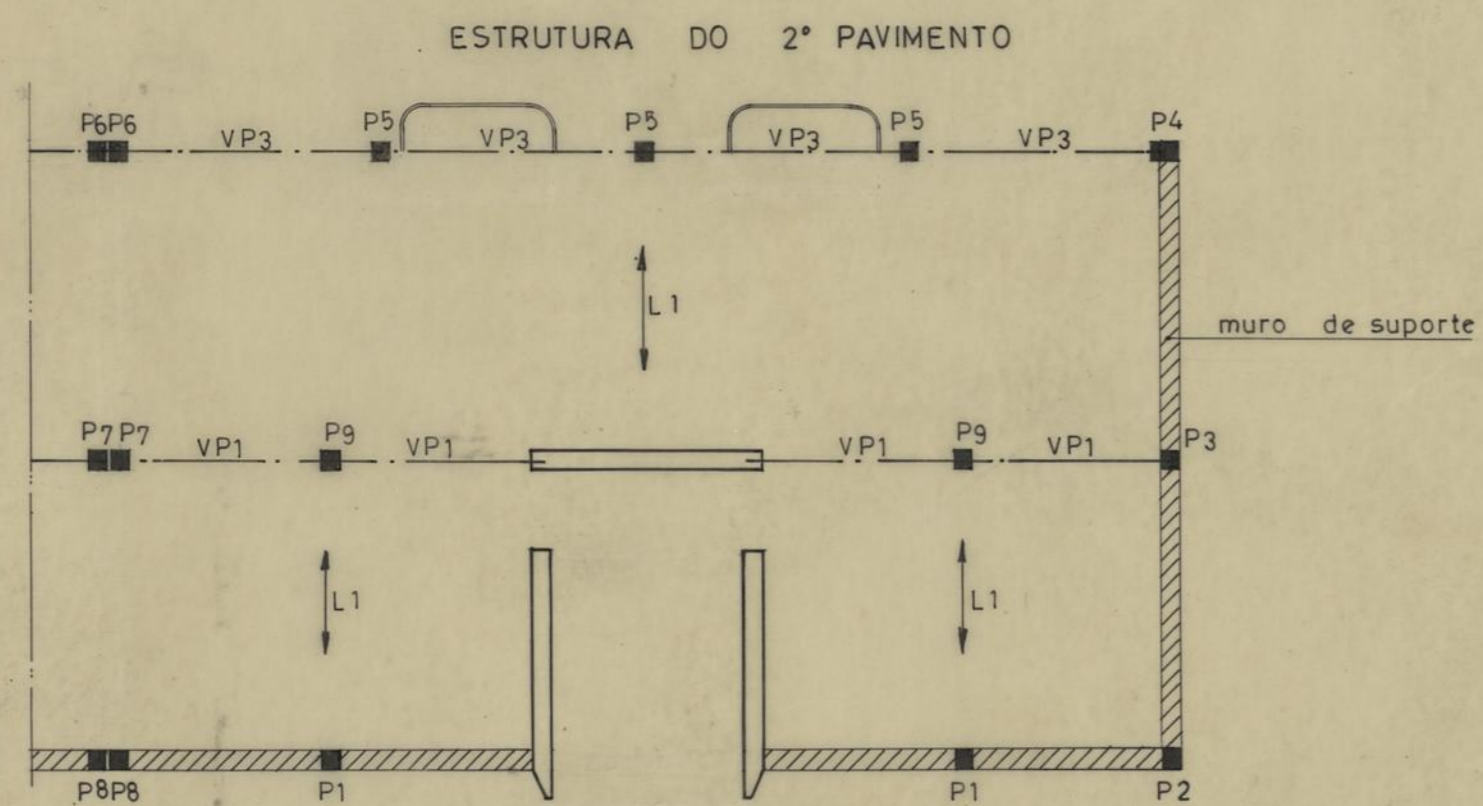
D. S. P. M. REPARTIÇÃO DE CONSTRUÇÃO DE CASAS EDIFÍCIOS 1,3,4,5, - VIGAS DE FUNDAÇÃO

O ENGENHEIRO O DESENHADOR: *[Signatures]*

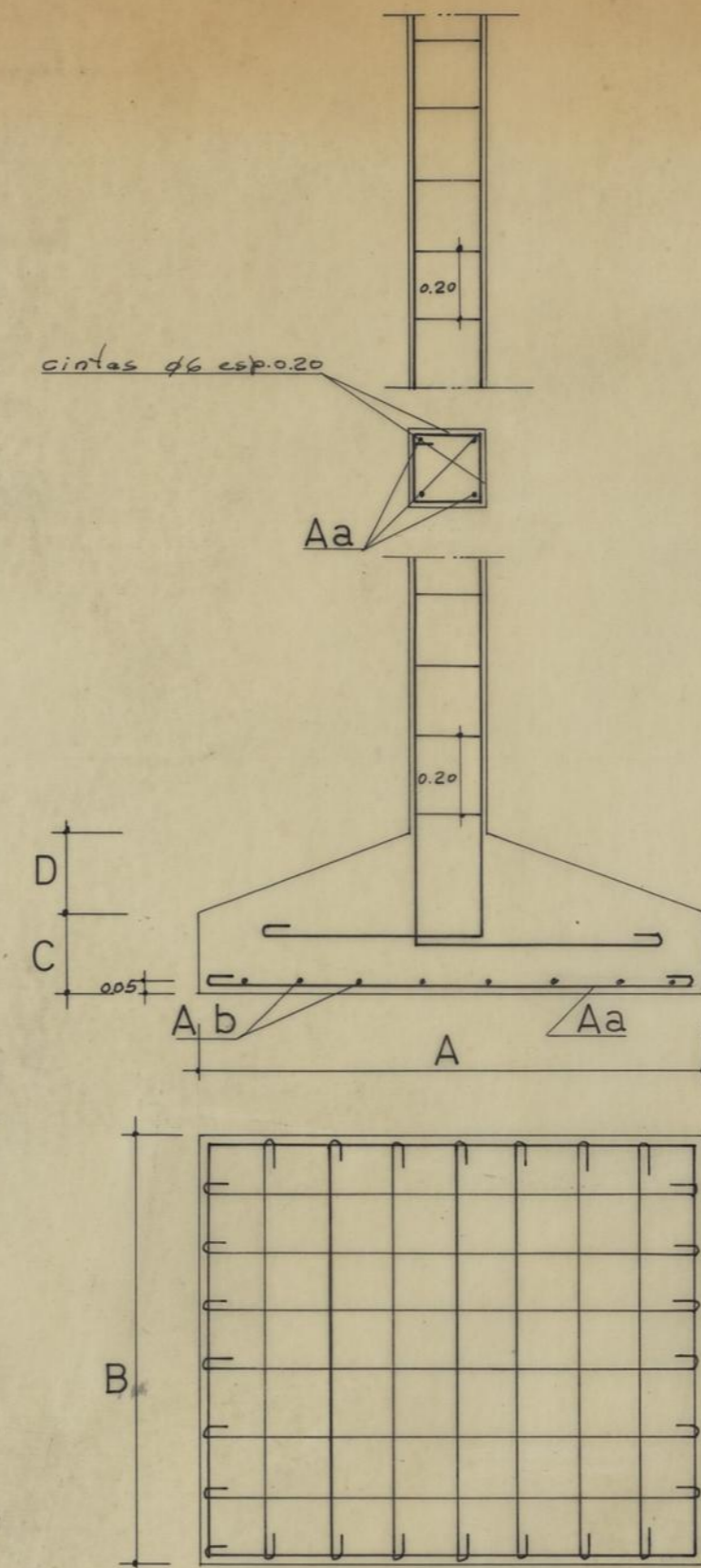
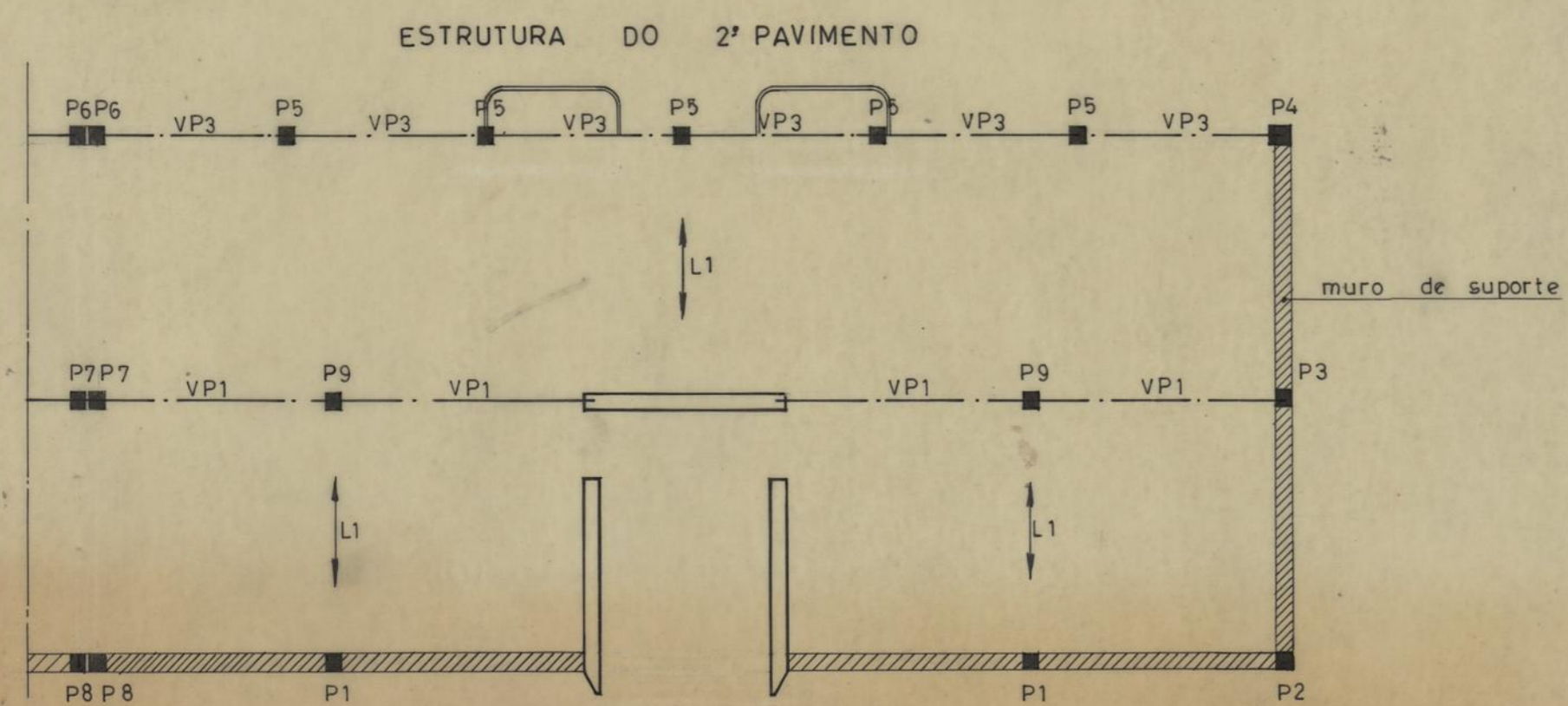
EDIFÍCIO 7



EDIFÍCIO 2 e 6

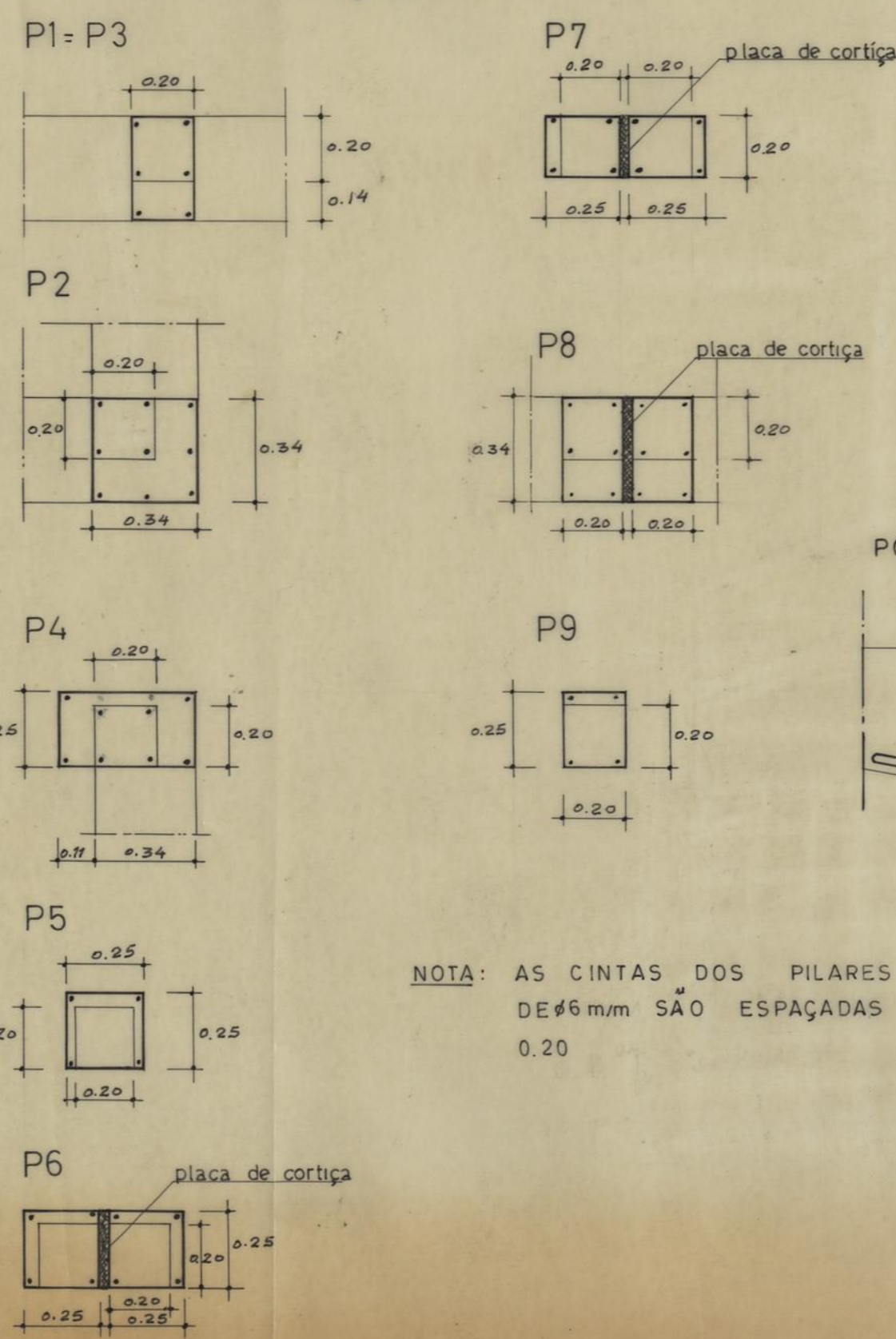


EDIFÍCIO 2e6

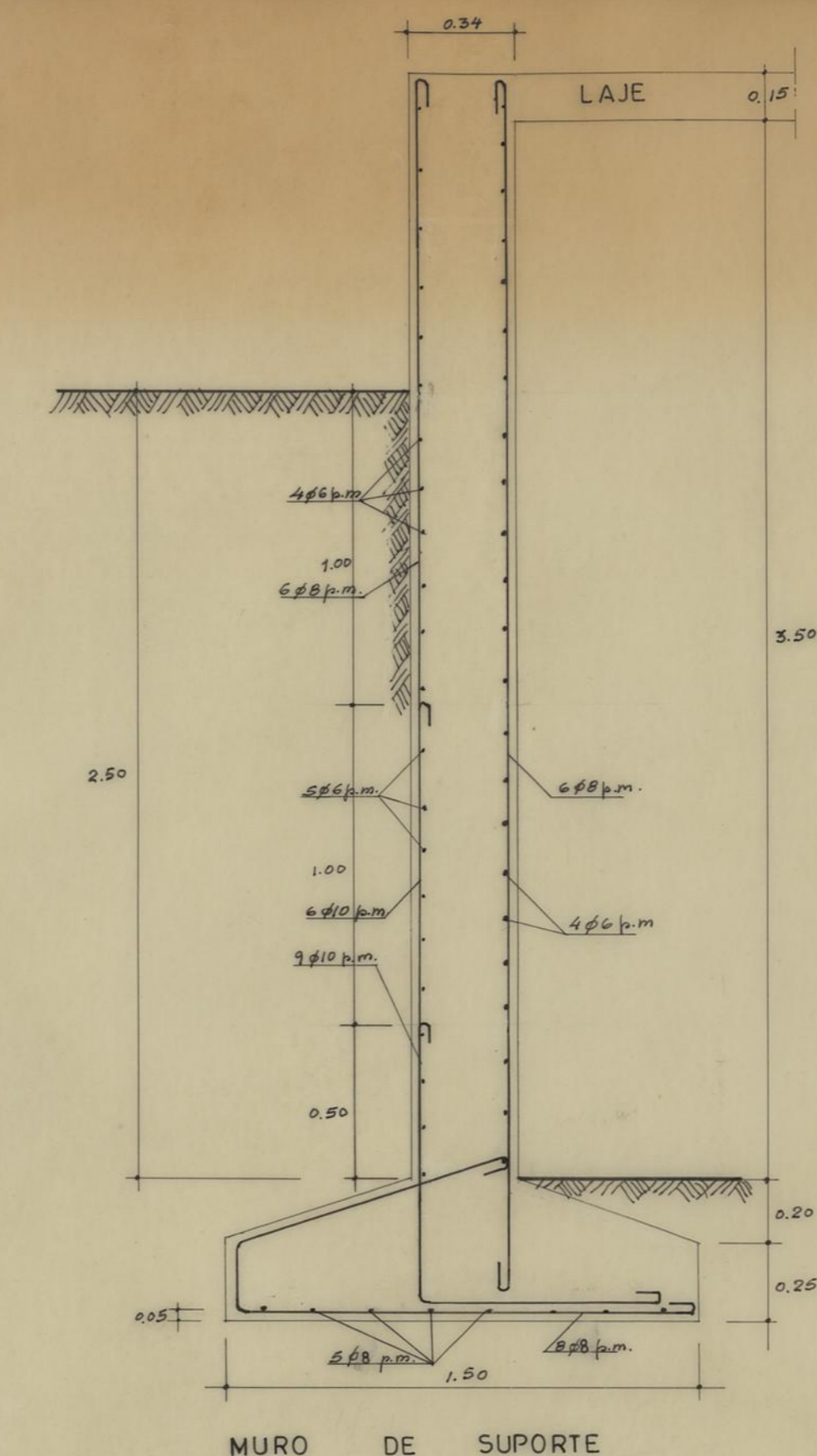


		ATÉ A 1ª LAJE.	APÓS A 1ª LAJE.	APÓS A 2ª LAJE.
P1	SECÇÃO	20 X 34	20 X 20	20 X 20
	ARMADURA	6 # 16	4 # 16	4 # 10
P2	SECÇÃO	34 X 34	20 X 20	20 X 20
	ARMADURA	9 # 12	4 # 12	4 # 10
P3	SECÇÃO	20 X 34	20 X 20	20 X 20
	ARMADURA	6 # 16	4 # 16	4 # 10
P4	SECÇÃO	25 X 45	20 X 20	20 X 20
	ARMADURA	8 # 16	4 # 16	4 # 10
P5	SECÇÃO	25 X 25	20 X 20	20 X 20
	ARMADURA	4 # 16	4 # 16	4 # 10
P6	SECÇÃO	25 X 25	20 X 20	20 X 20
	ARMADURA	4 # 16	4 # 16	4 # 10
P7	SECÇÃO	20 X 25	20 X 20	20 X 20
	ARMADURA	4 # 16	4 # 16	4 # 10
P8	SECÇÃO	20 X 34	20 X 20	20 X 20
	ARMADURA	6 # 12	4 # 12	4 # 10
P9	SECÇÃO	25 X 20	20 X 20	20 X 20
	ARMADURA	4 # 16	4 # 16	4 # 10

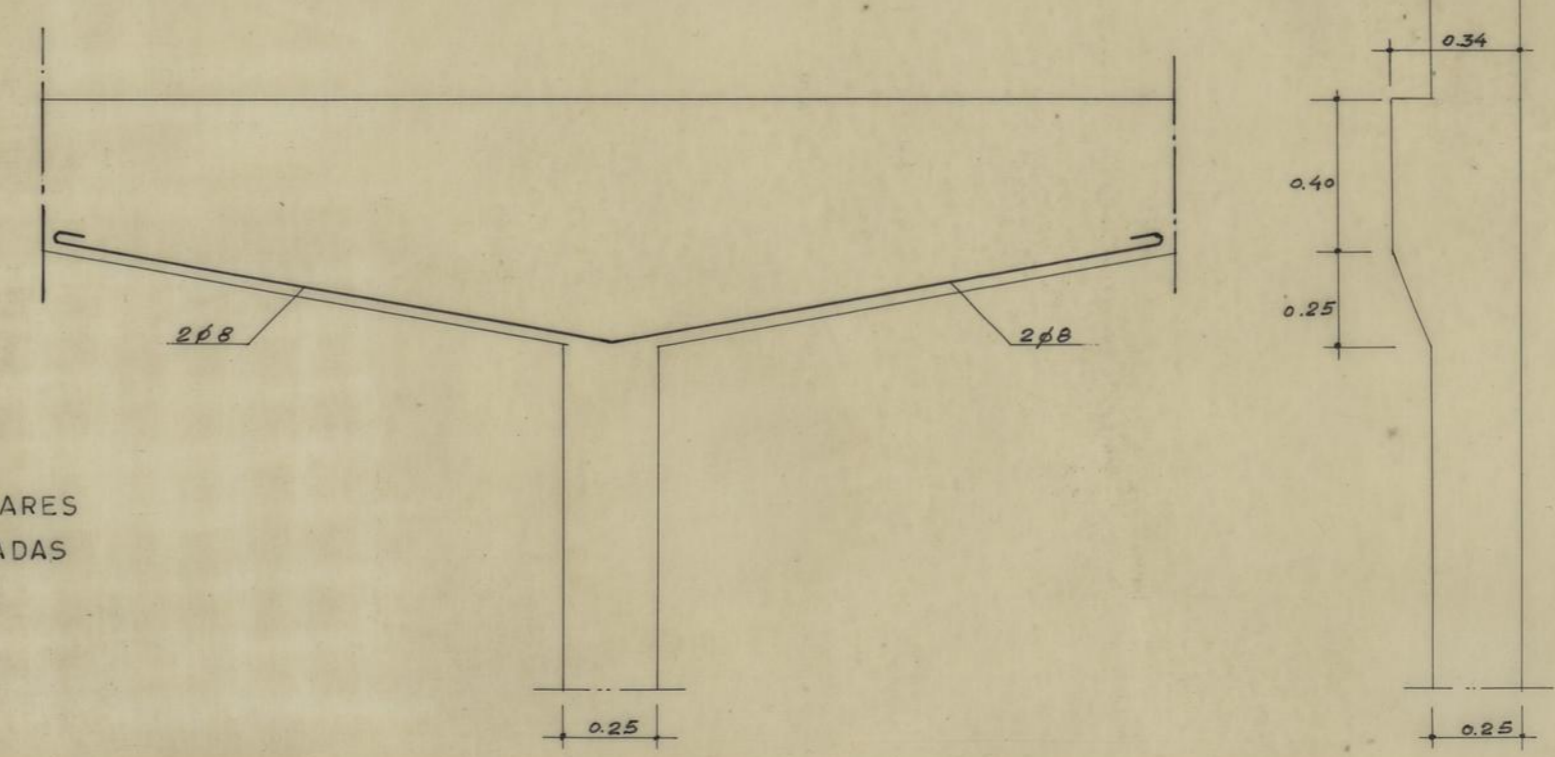
- SECÇÕES -



NOTA: AS CINTAS DOS PILARES DE #6 m/m SÃO ESPAÇADAS 0.20



PORMENORES DA VIGA PADIEIRA

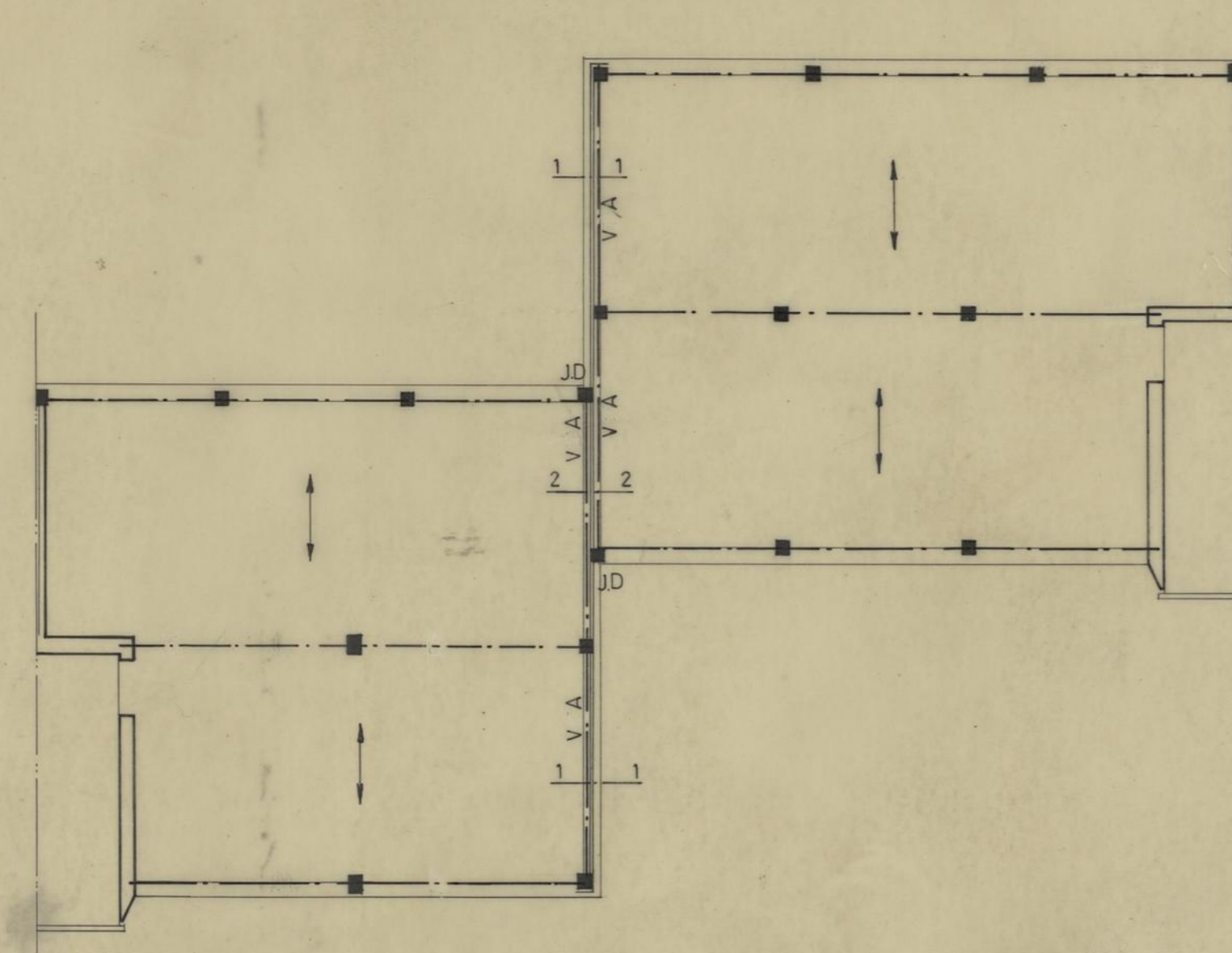


DESIGN S	DIMENSÕES				ARMADURAS	
	A	B	C	D	Aa	Ab
S1	110	180	25	20	8 # 10 p.m. 9 # 12 p.m.	
S2	130	130	25	20	7 # 10 p.m. 7 # 10 p.m.	
S3	110	180	25	20	8 # 10 p.m. 9 # 12 p.m.	
S4	105	190	25	20	7 # 10 p.m. 9 # 12 p.m.	
S5	160	160	25	20	10 # 12 p.m. 10 # 12 p.m.	
S6	130	260	25	30	10 # 12 p.m. 10 # 16 p.m.	
S7	125	315	25	45	8 # 12 p.m. 11 # 16 p.m.	
S8	140	230	25	30	8 # 12 p.m. 8 # 16 p.m.	
S9	140	170	25	20	9 # 12 p.m. 10 # 12 p.m.	

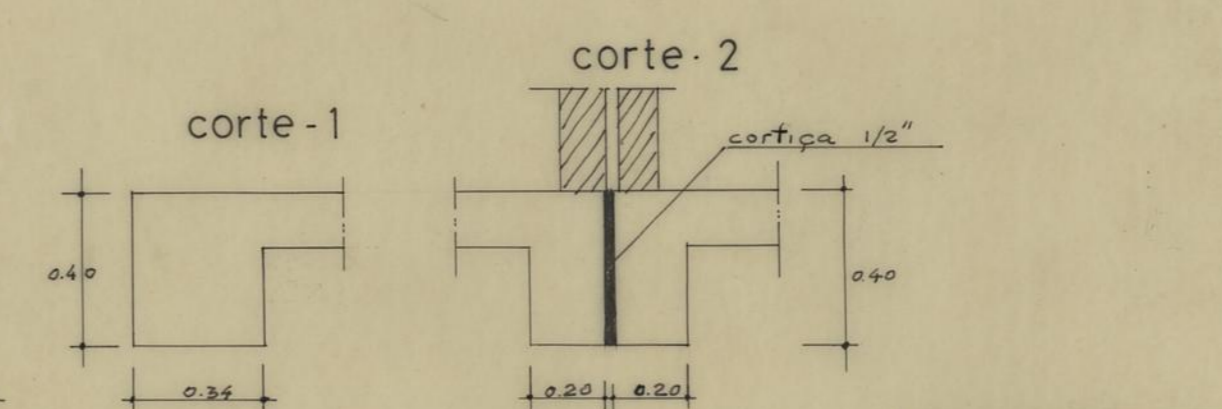
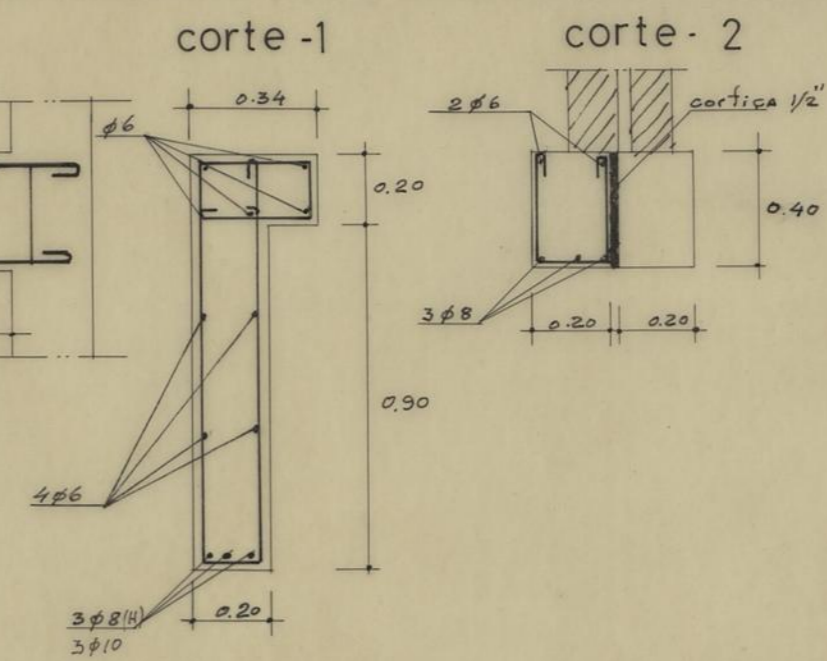
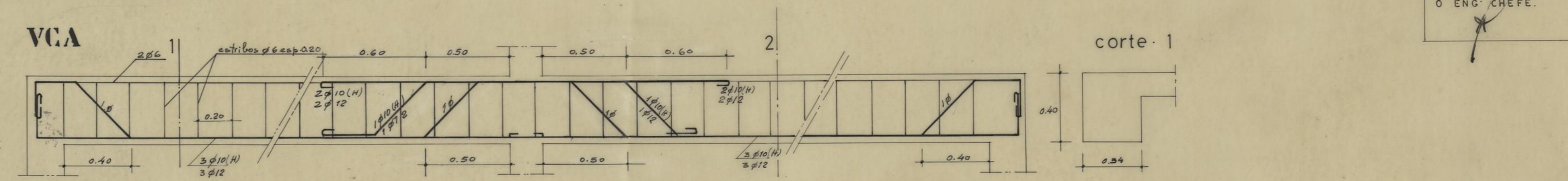
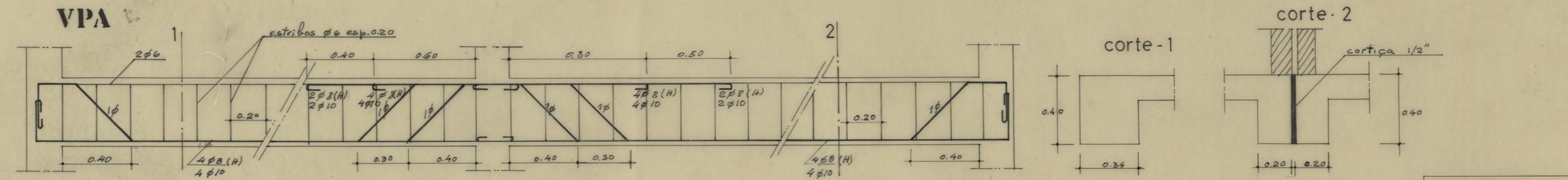
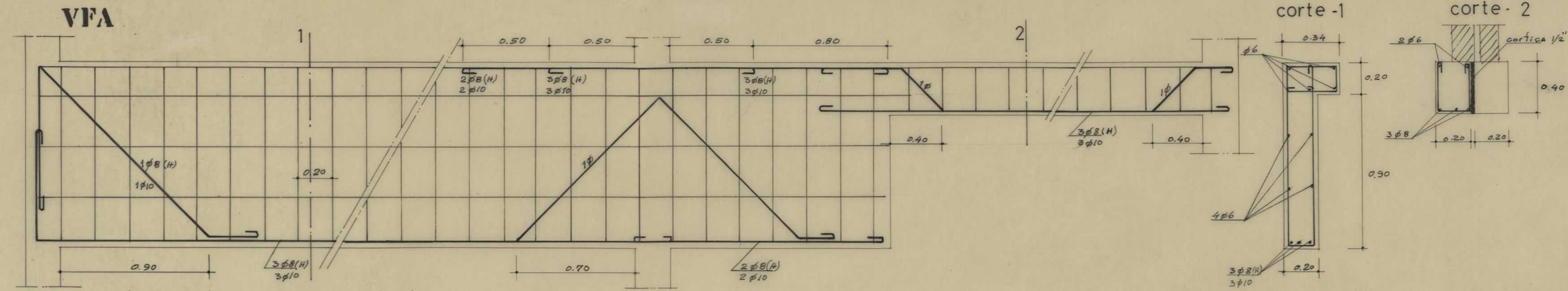
NOTA: OS PILARES 6, 7 e 8 TÊM UMA ÚNICA SAPATA.

CAMARA MUNICIPAL DO PORTO D. S. P. M. REPARTIÇÃO DE CONSTRUÇÃO DE CASAS O ENG. CHEFE	GRUPO DE MORADIAS POPULARES DA CORUJEIRA. EDIFÍCIOS - 2, 6 e 7 — MUROS DE SUPORTE PILARES E SAPATAS.	MARÇO DE 1967 ESC: 1/100; 1/20 O DESENHADOR:
	O ENGENHEIRO:	O DESENHADOR:

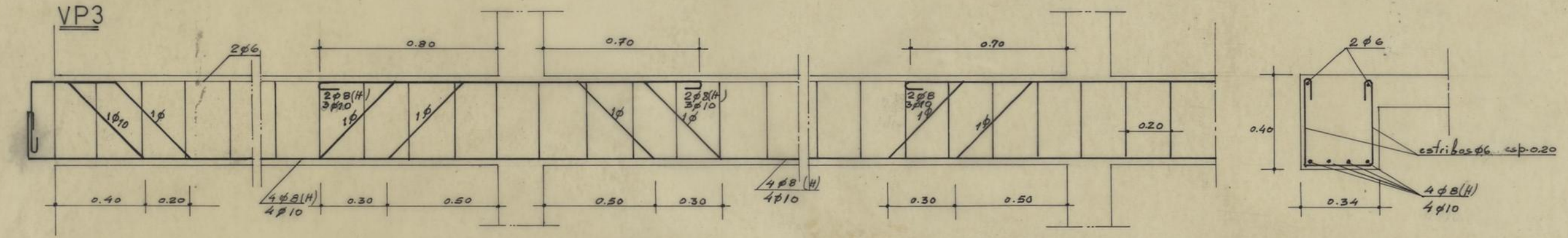
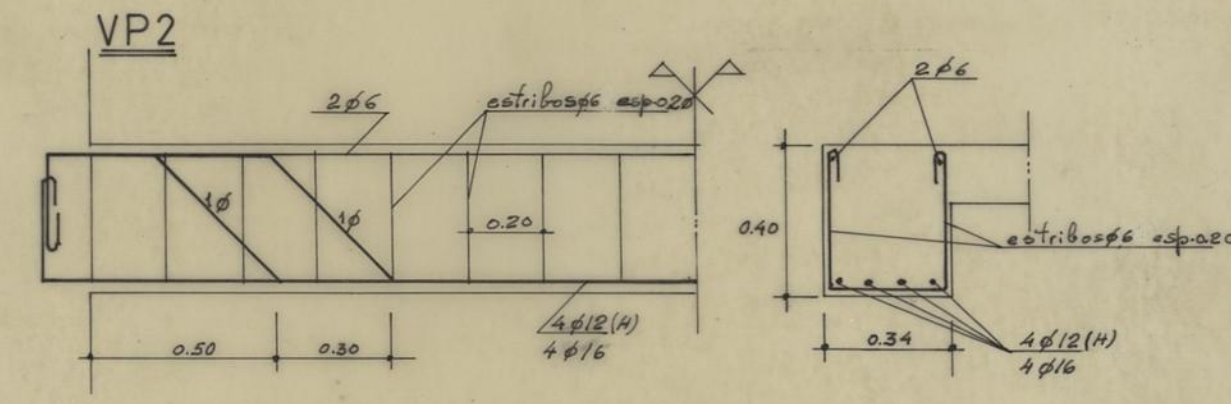
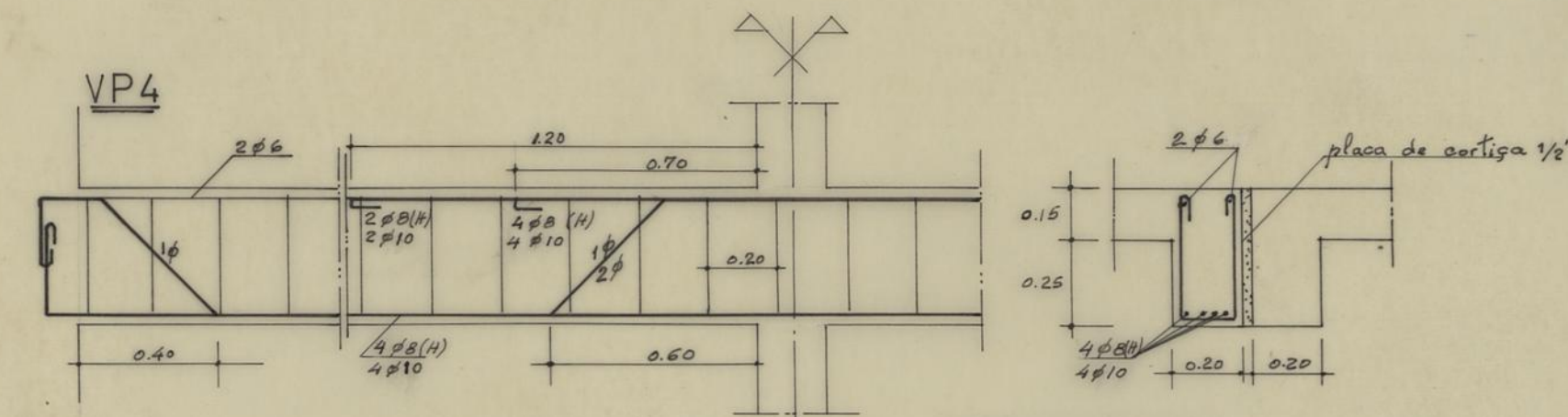
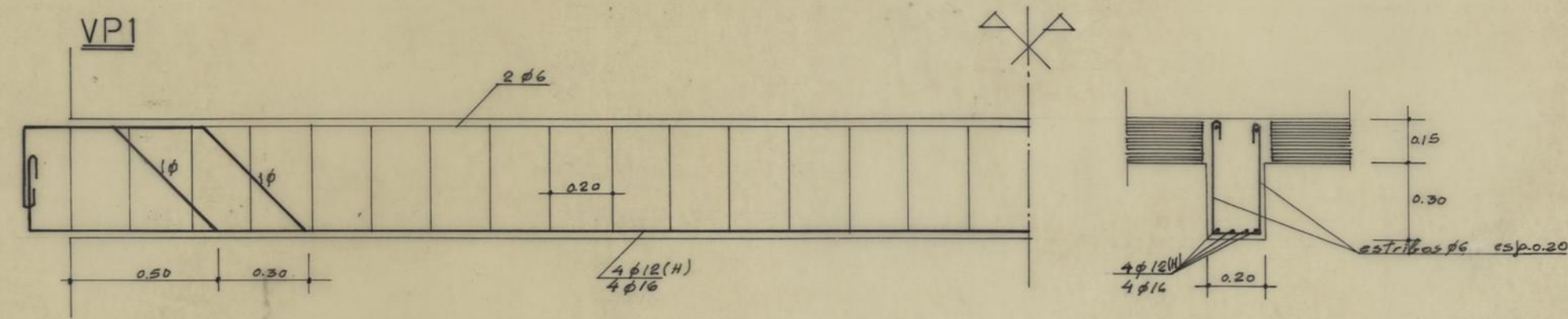
EDIFÍCIOS 234,6




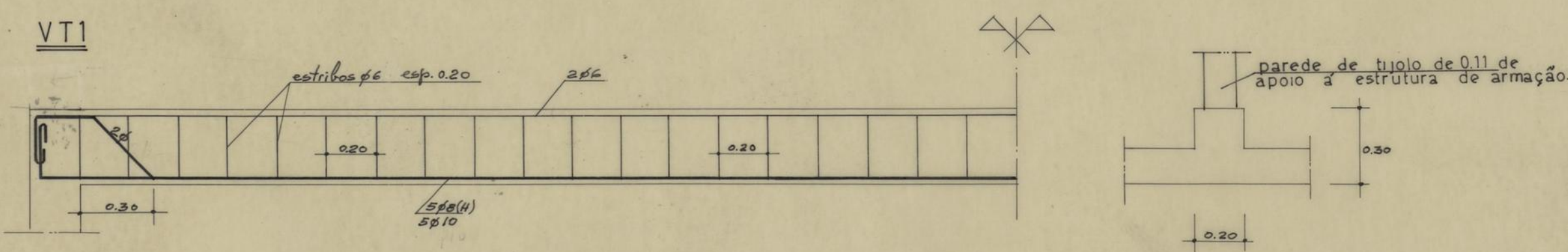
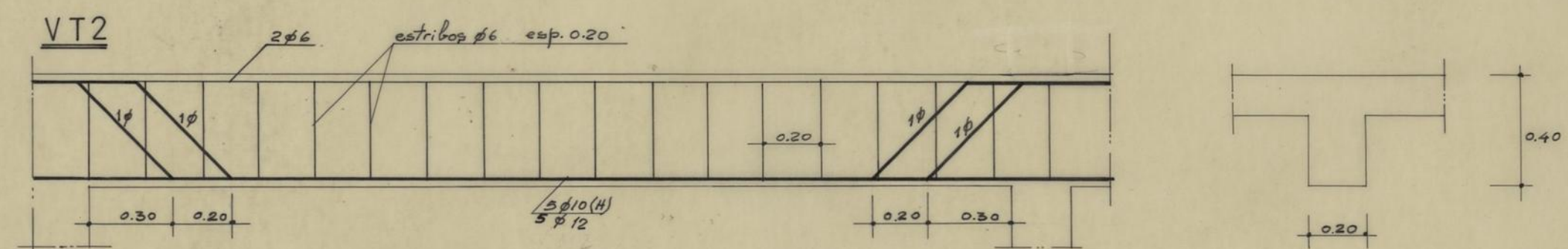
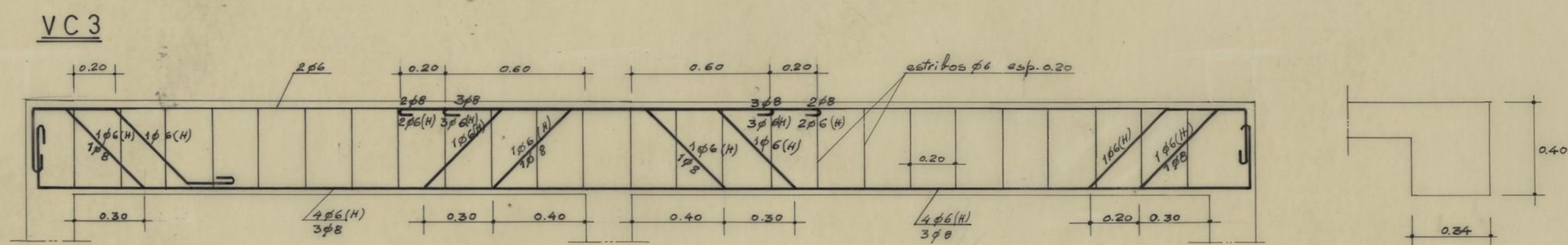
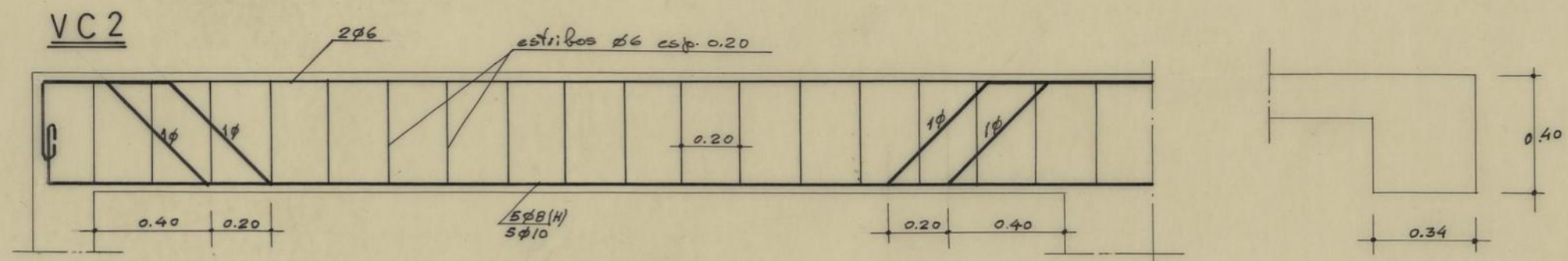
VF — AO NÍVEL DAS FUNDAMENTOS E ENVASAMENTO
 VP — AO NÍVEL DOS PAVIMENTOS
 VC — AO NÍVEL DOS TECTOS



CAMARA MUNICIPAL DO PORTO D. S. P. M. REPARTIÇÃO DE CONSTRUÇÃO DE CASAS	GRUPO DE MORADIAS POPULARES DA CORUJEIRA.		MARÇO DE 1967
	ESTUDO DAS JUNÇÕES DOS EDIFÍCIOS N.º 234 e 6		
O ENG. CHEFE.	O ENGENHEIRO:	O DESENHADOR:	
	<i>A. S. Silva</i>	<i>J. G. Esteves</i> <i>José Maldonado</i>	



CAMARA MUNICIPAL DO PORTO D. S. P. M. REPARTIÇÃO DE CONSTRUÇÃO DE CASAS	GRUPO DE MORADIAS POPULARES DA CORUJEIRA	 FEVEREIRO DE 1967 ESC: 1/20
	ESTRUTURA TIPO A-VIGAS	
O ENG. CHEFE:	O ENGENHEIRO: <i>Alceni</i>	O DESENHADOR: <i>J. B. Oliveira</i> <i>Luís Pedreira</i>



NOTA:
A VIGA VT3 E IDENTICA A VIGA VP4.

CAMARA MUNICIPAL DO PORTO
D. S. P. M.
REPARTIÇÃO DE CONSTRUÇÃO DE CASAS

GRUPO DE MORADIAS POPULARES DA CORUJEIRA.

ESTRUTURA TIPO- A

VIGAS DE TECTO



MARÇO DE 1967

ESCALA: 1/20

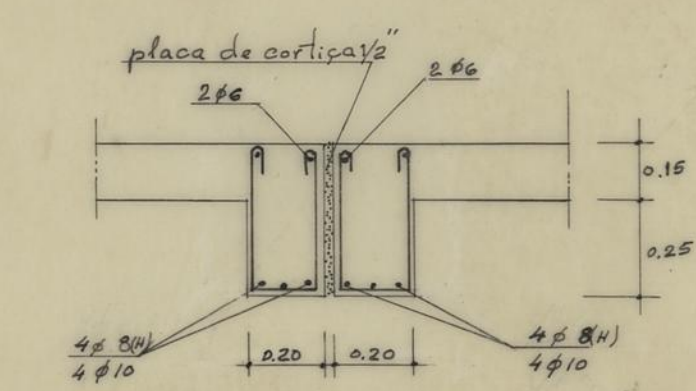
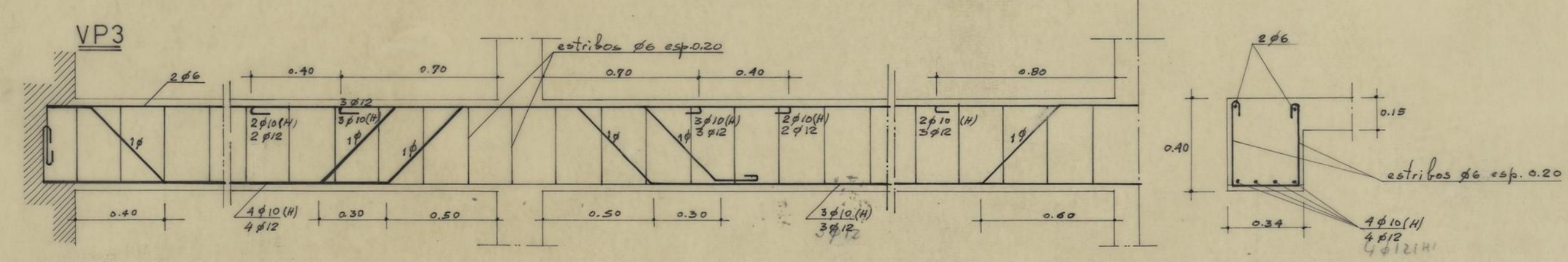
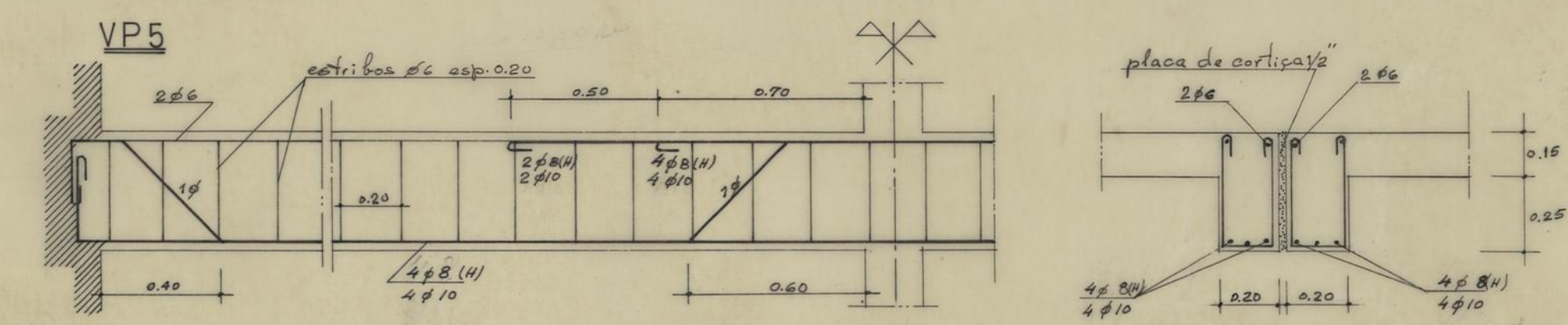
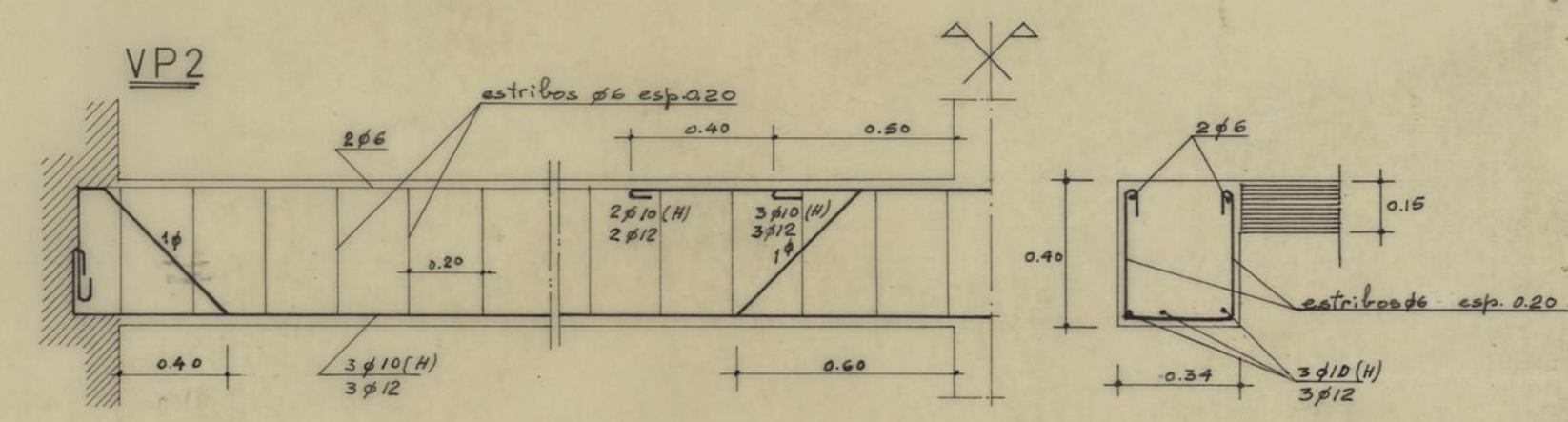
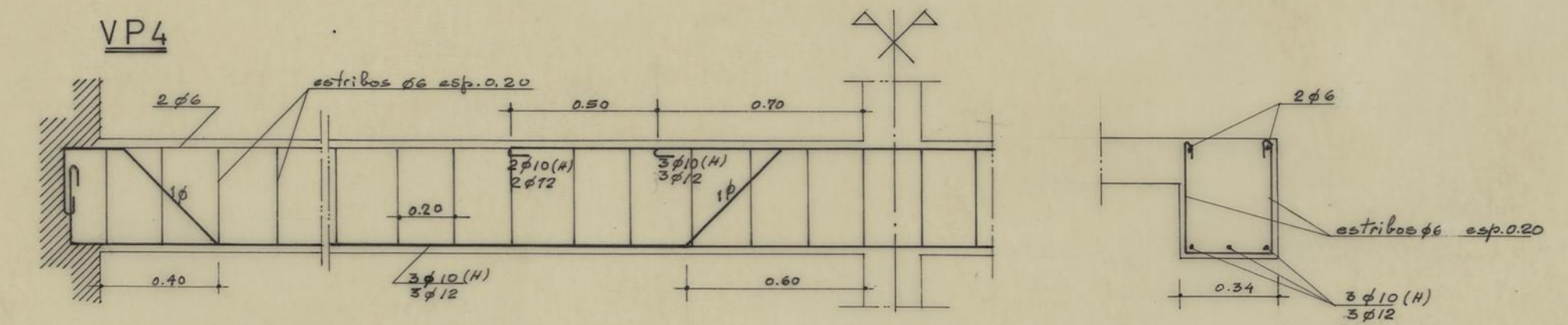
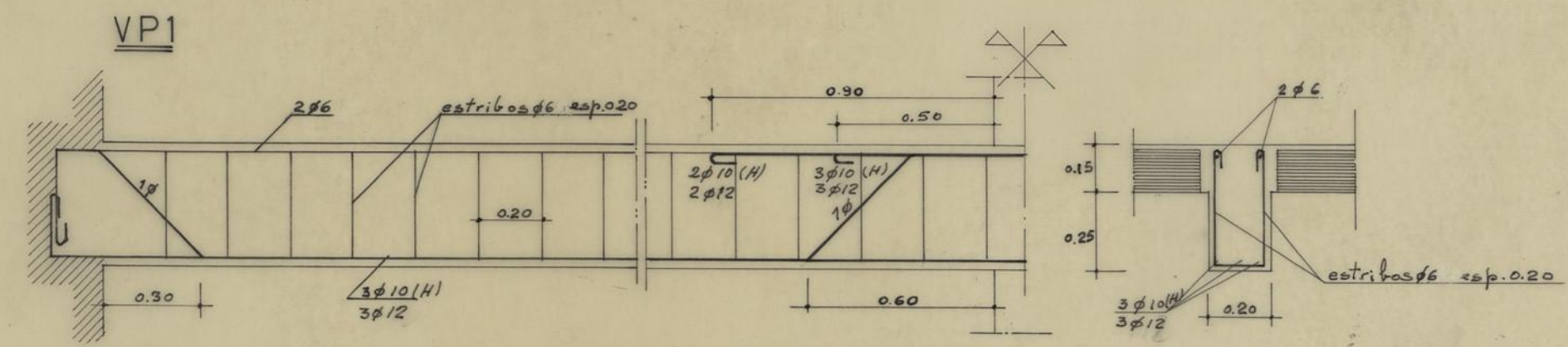
O ENG. CHEFE:

O ENGENHEIRO:

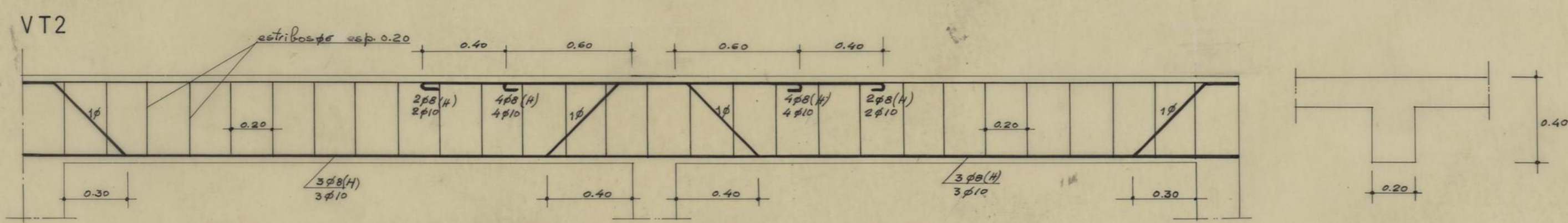
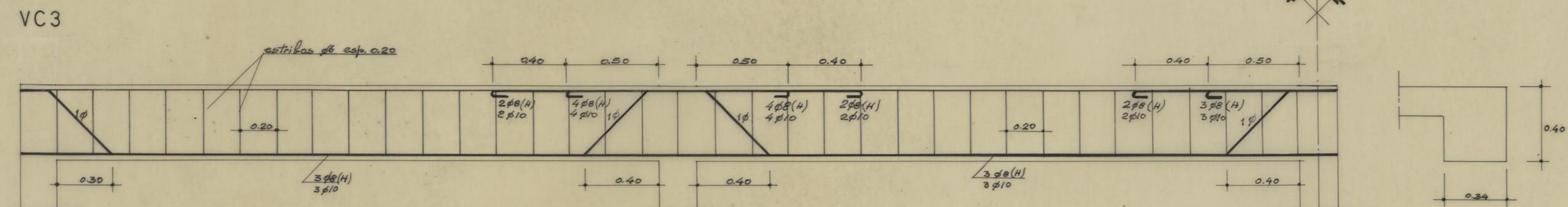
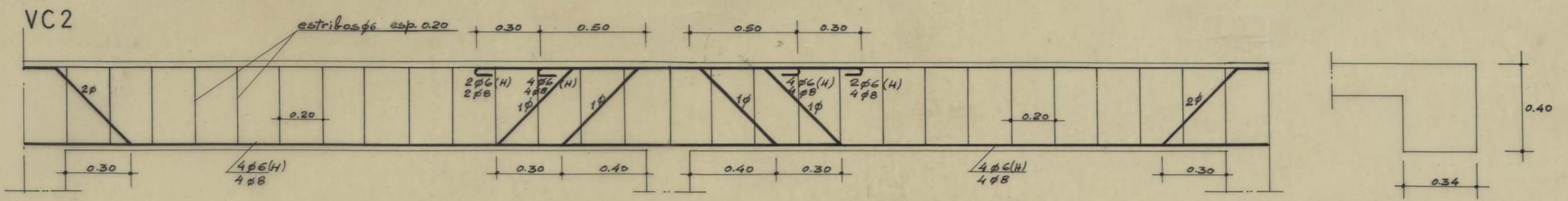
[Signature]

O DESENHADOR:

[Signature]




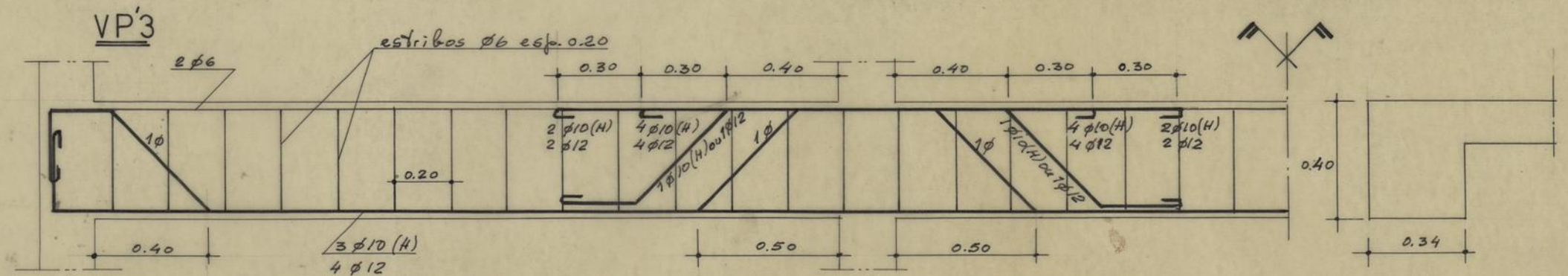
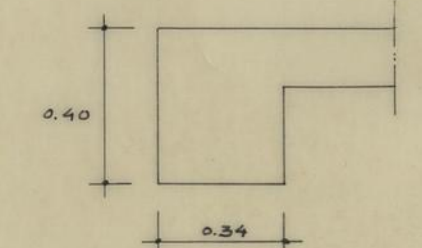
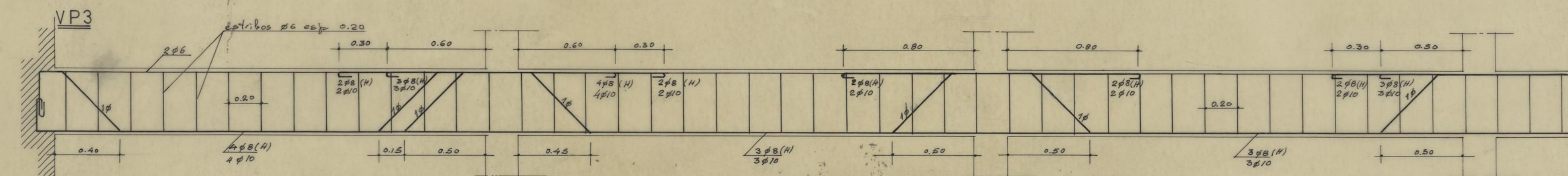
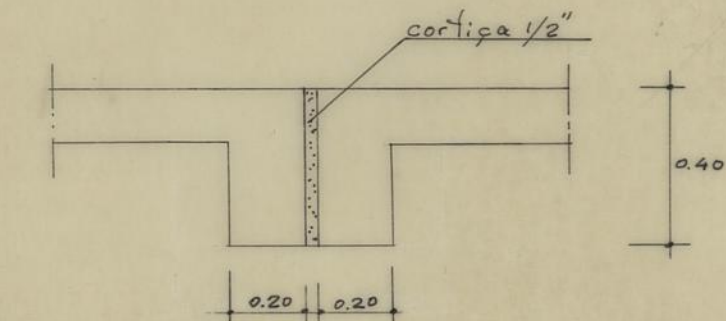
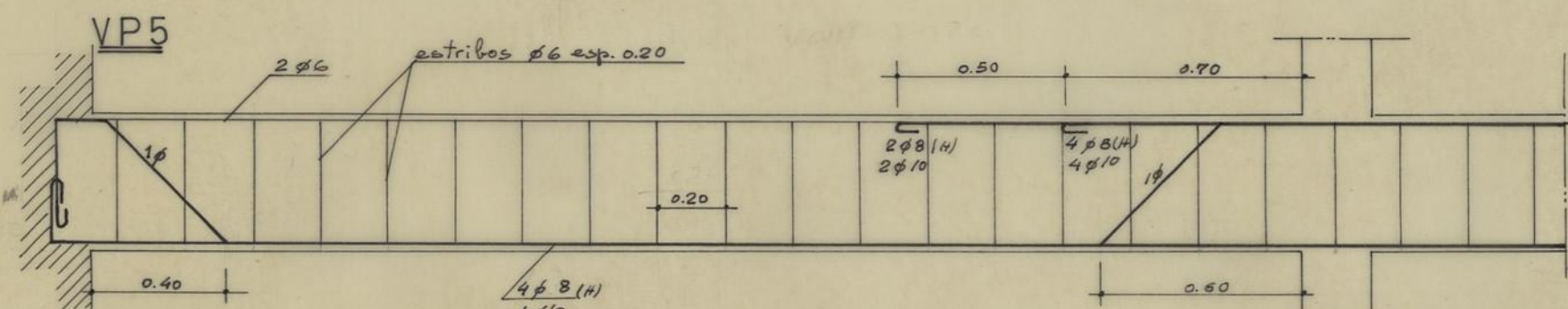
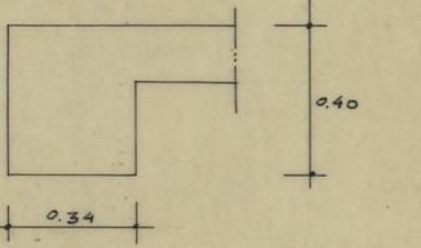
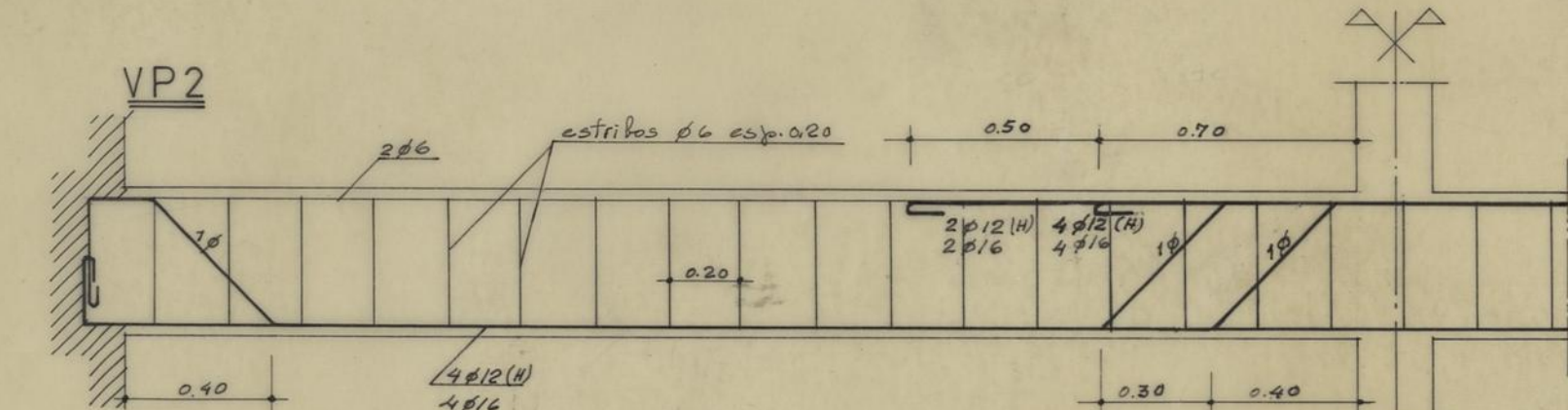
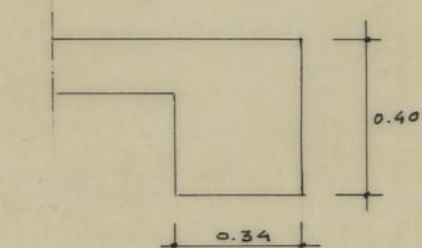
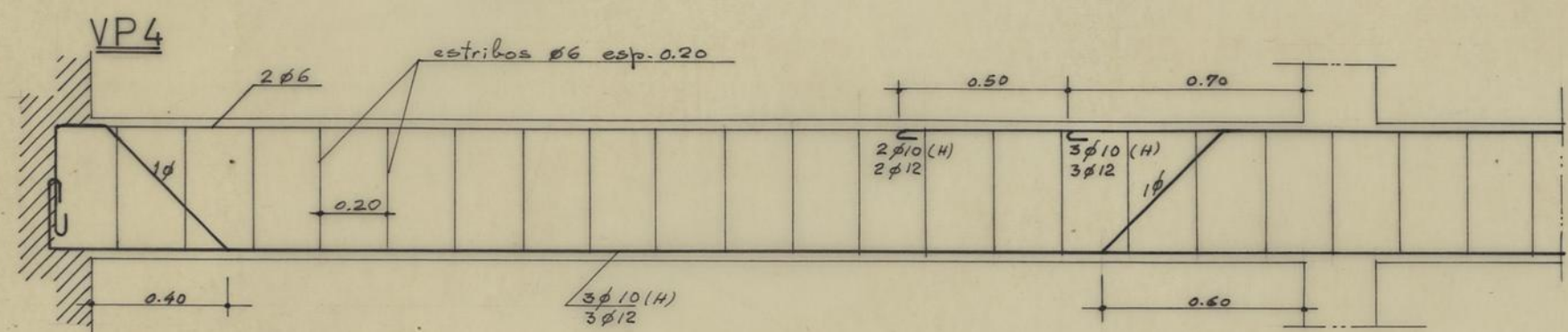
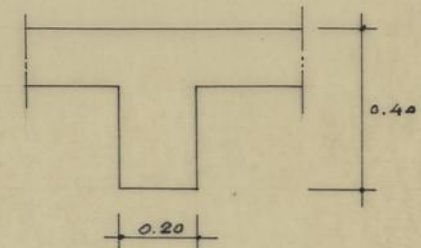
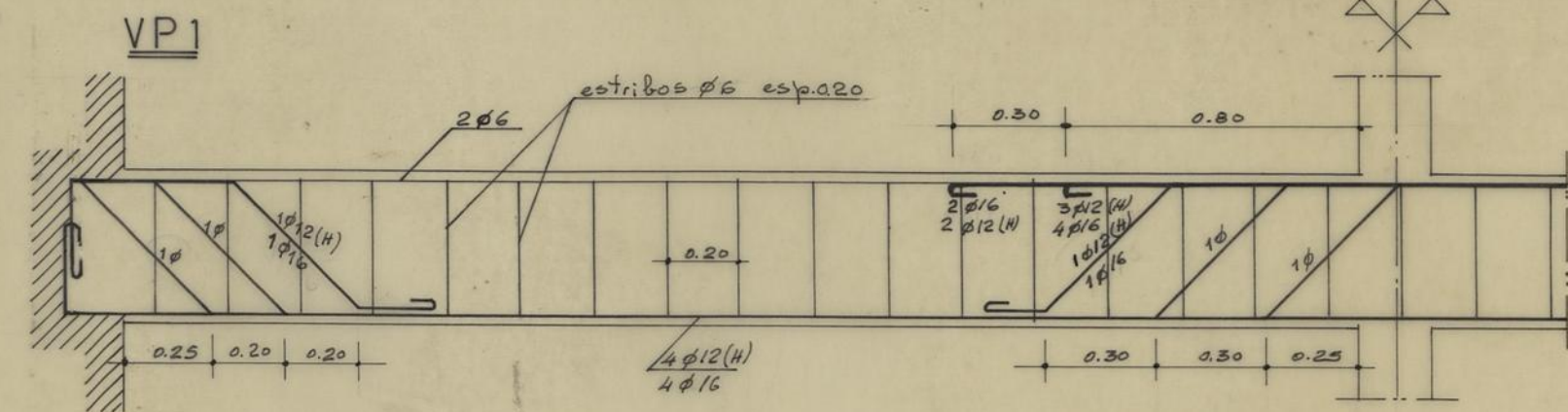
CAMARA MUNICIPAL DO PORTO	GRUPO DE MORADIAS POPULARES DA CORUJEIRA		
	D. S. P. M. REPARTIÇÃO DE CONSTRUÇÃO DE CASAS		
		BETÃO ARMADO-VIGAS TIPO - B	ESC: 1/20
O ENG. CHEFE.	O ENGENHEIRO:	O DESENHADOR:	



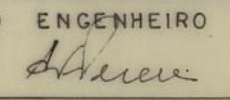
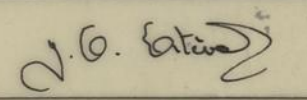



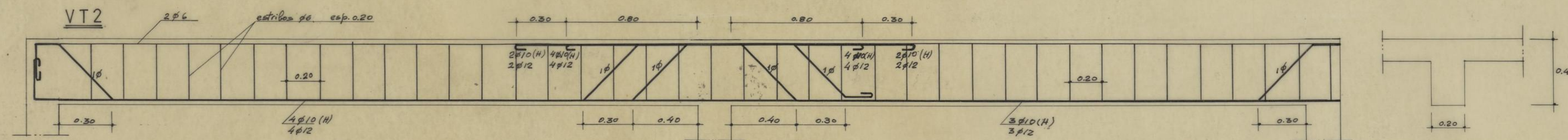
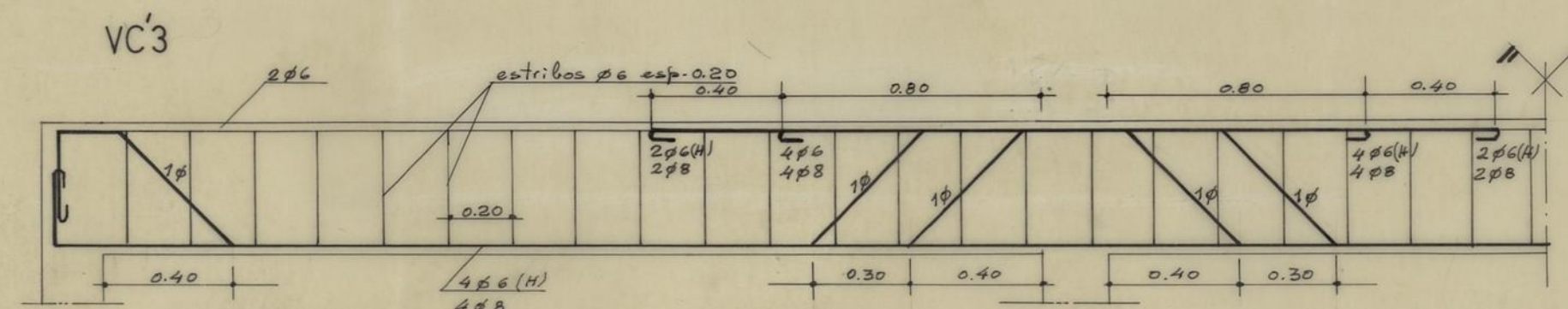
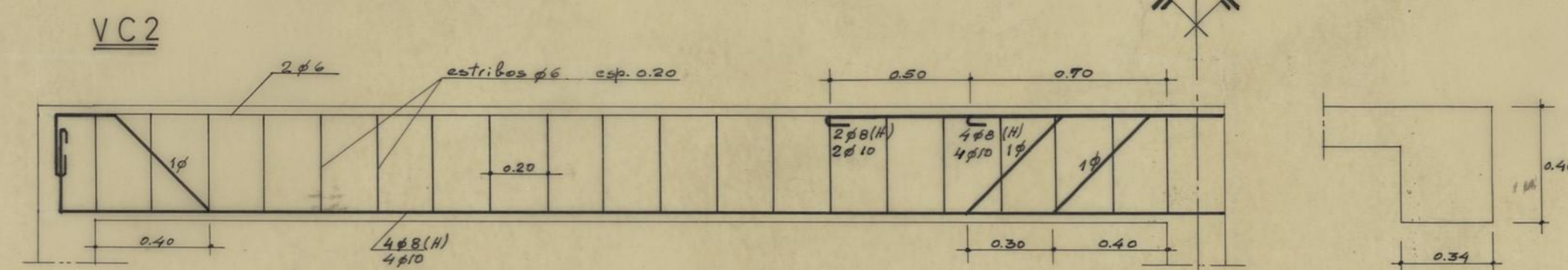
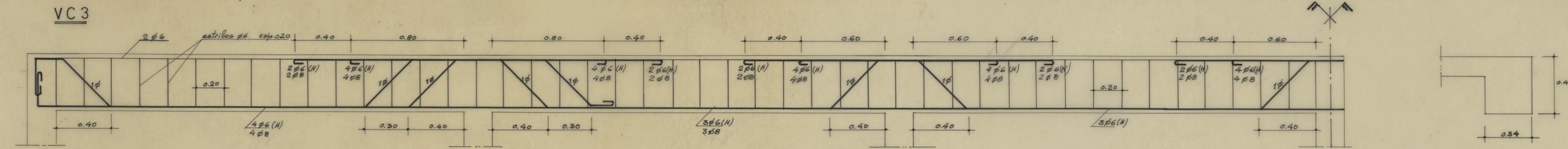
NOTA: As paredes de tijolo de 0,11 de apoio á estrutura de armação são apoiadas nas vigas VT1 e VT3 e nas paredes de caixa de escada.

NOTA:
AS VIGAS VC1, VC'1 e VT1 SÃO AS INDICADAS NA ESTRUTURA TIPO-D
A VIGA VT3 É IGUAL Á VIGA VP5.

CAMARA MUNICIPAL DO PORTO D. S. P. M. REPARTIÇÃO DE CONSTRUÇÃO DE CASAS	GRUPO DE MORADIAS POPULARES DA CORUJEIRA.		 MARÇO DE 1967
	ESTRUTURA TIPO B		
VIGAS DE TECTO		O ENGENHEIRO: <i>António</i> <i>J. O. António</i>	
O ENG. CHEFE. <i>[Signature]</i>	O DESENHADOR: <i>Fosé Maldonado</i>		



CAMARA MUNICIPAL DO PORTO D. S. P. M. REPARTIÇÃO DE CONSTRUÇÃO DE CASAS	GRUPO DE MORADIAS POPULARES DA CORUJEIRA.		
	ESTRUTURA TIPO - CeC		
O ENG. CHEFE	O ENGENHEIRO	O DESENHADOR:	
			


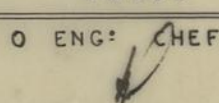
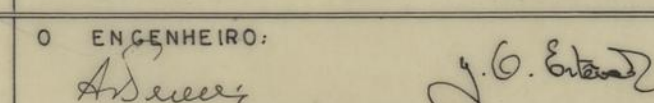
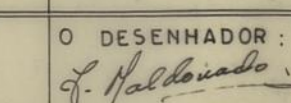


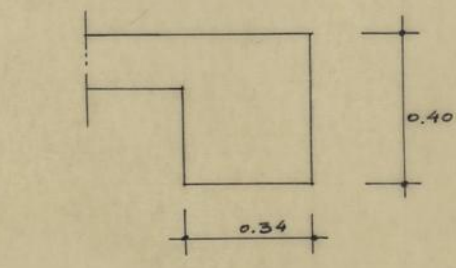
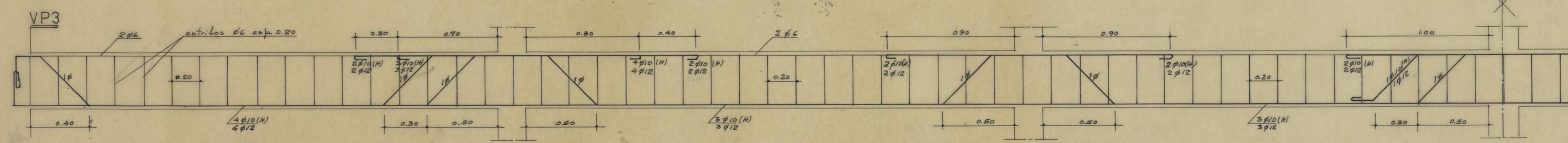
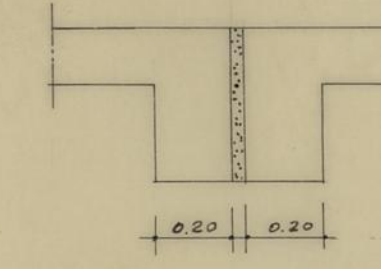
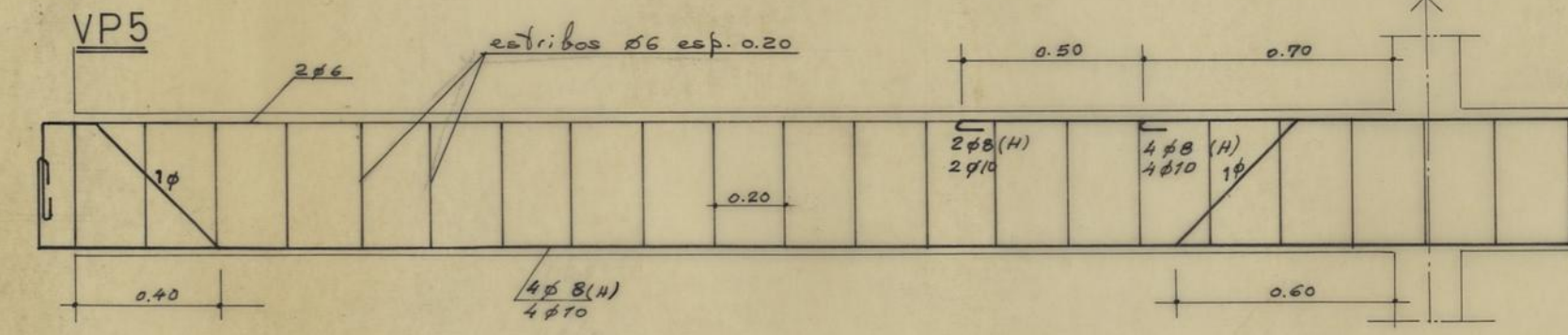
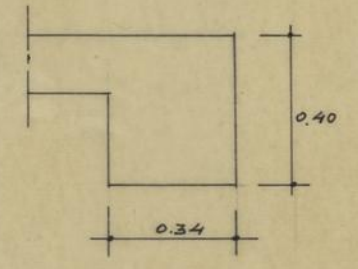
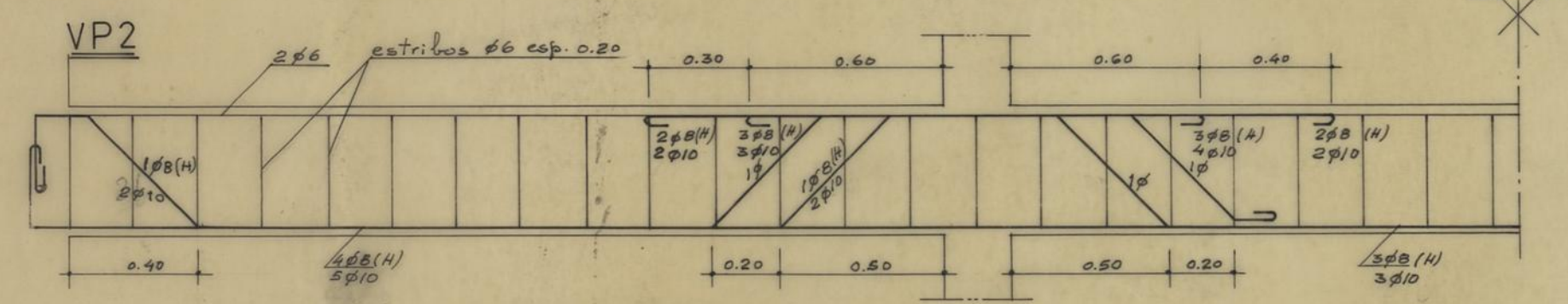
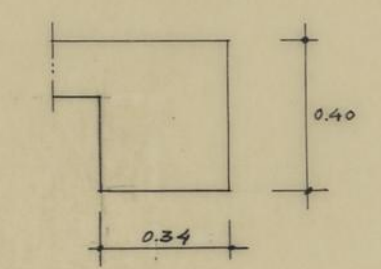
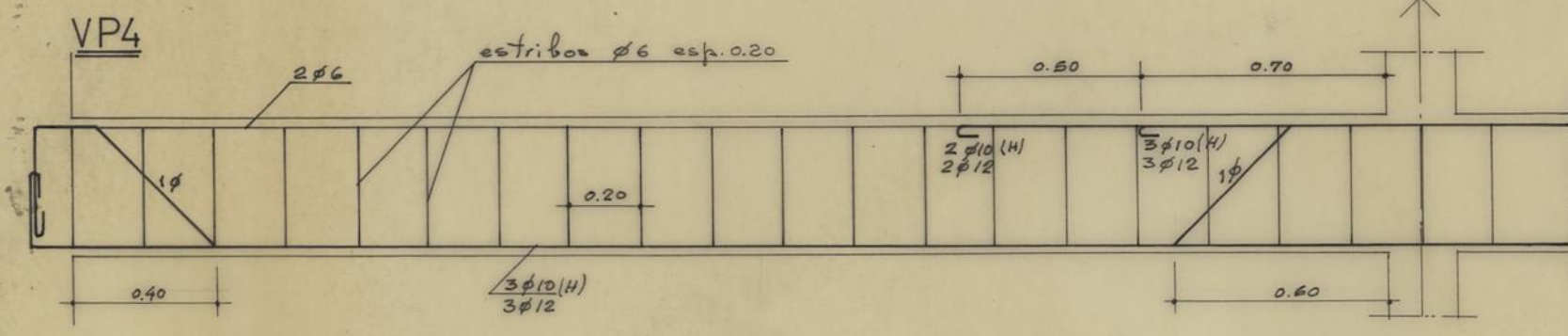
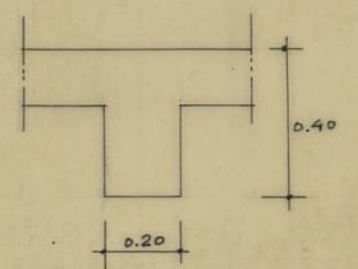
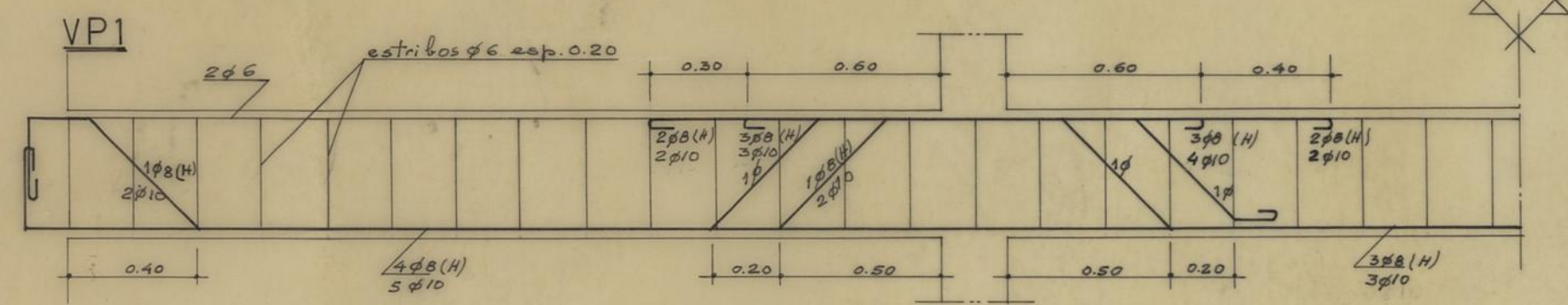
NOTA: as paredes de tijolo de 0,11 de apoio á estrutura da armação são apoiadas nas vigas VT1e VT3 e nas paredes de caixa de escada.

NOTA:

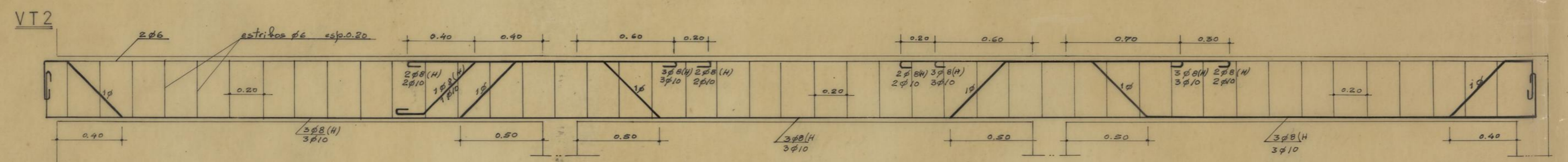
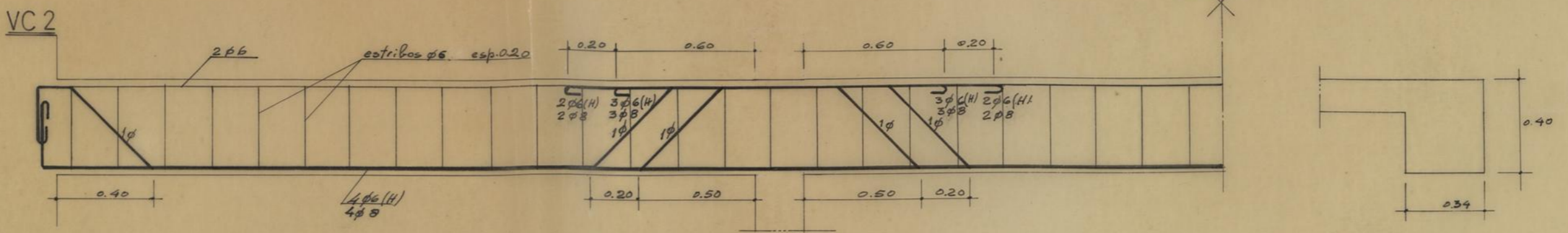
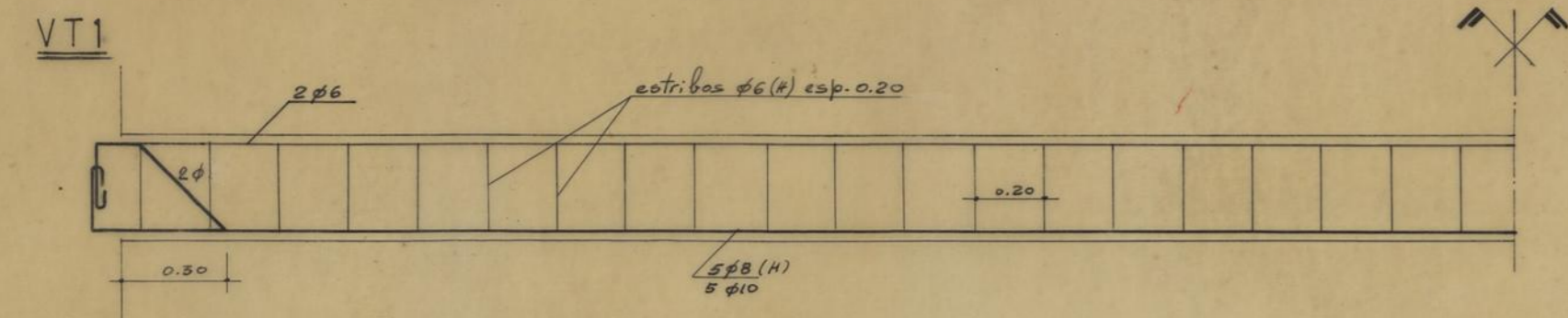
AS VIGAS VT1; VC1; VC'1 SÃO AS INDICADAS NA ESTRUTURA TIPO-D.

A VIGA VT3 É IGUAL Á VIGA VP5.

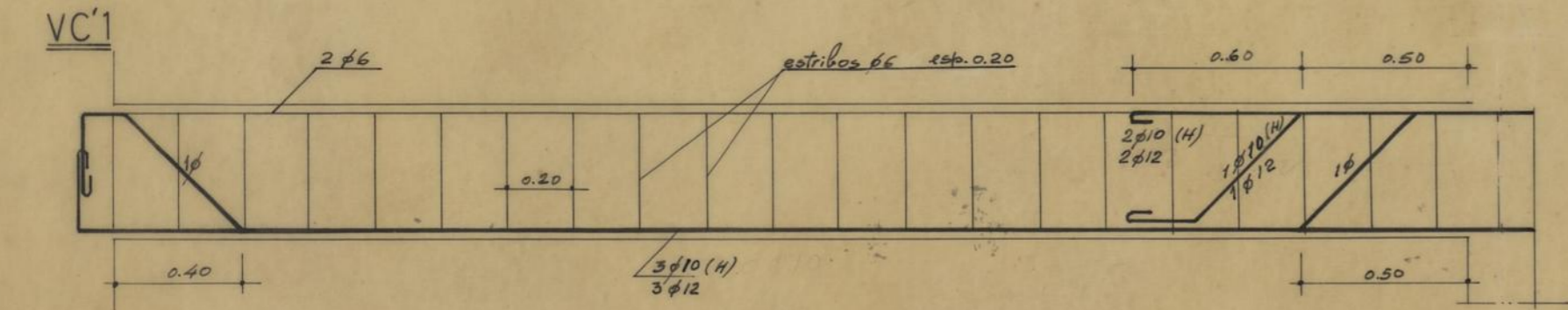
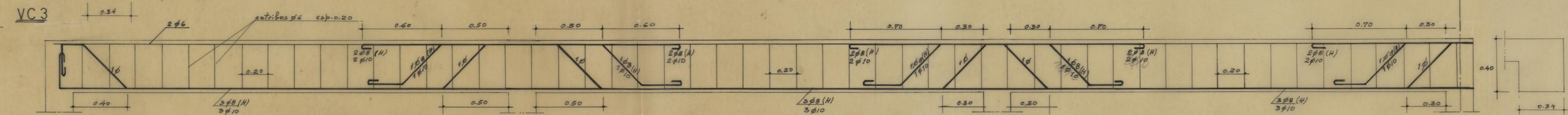
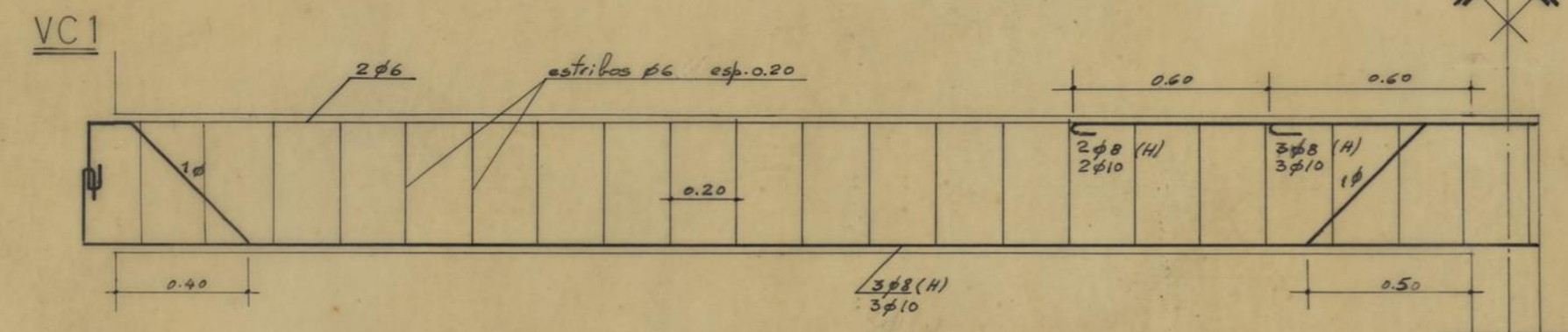
CAMARA MUNICIPAL DO PORTO D. S. P. M. REPARTIÇÃO DE CONSTRUÇÃO DE CASAS	GRUPO DE MORADIAS POPULARES DA CORUJEIRA	 FEVEREIRO DE 1967
	ESTRUTURA TIPO - CeC'	
	VIGAS DO TECTO	ESC: 1/20
O ENG. CHEFE:	O ENGENHEIRO:	O DESENHADOR:
		




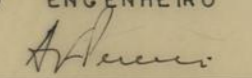
CAMARA MUNICIPAL DO PORTO D. S. P. M.	GRUPO DE MORADIAS POPULARES DA CORUJEIRA.		
	REPARTIÇÃO DE CONSTRUÇÃO DE CASAS	ESTRUTURA DO TIPO-D: VIGAS.	
O ENG. CHEFE:	O ENGENHEIRO:	O DESENHADOR:	



NOTA:
A VIGA VT3 É IGUAL À VIGA VP5.



NOTA: As paredes de tijolo de 0,11 de apoio à estrutura de armação são apoiadas nas vigas VT1 e VT3 e nas paredes de caixa de escada.

CAMARA MUNICIPAL DO PORTO D. S. P. M. REPARTIÇÃO DE CONSTRUÇÃO DE CASAS O ENG. CHEFE:	GRUPO DE MORADIAS POPULARES DA CORUJEIRA.	 FEVEREIRO DE 1967
	ESTRUTURA TIPO-D VIGAS DO TECTO	
O ENGENHEIRO:		O DESENHADOR:
	