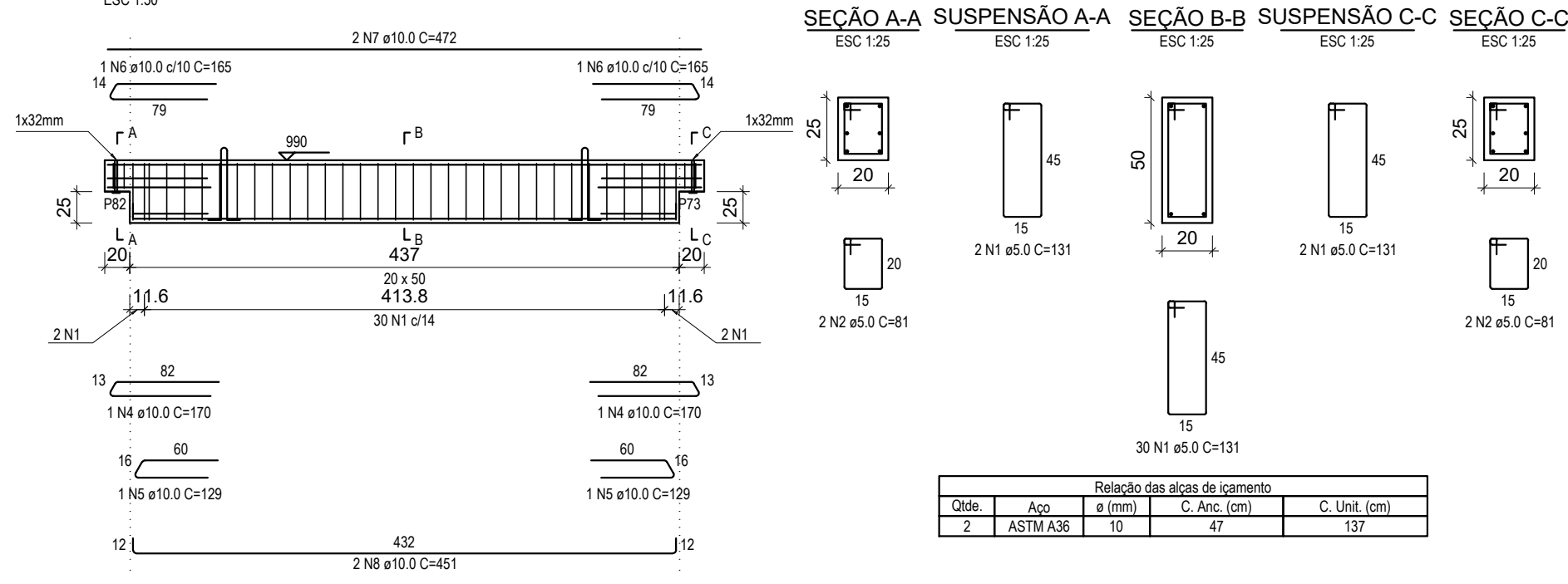
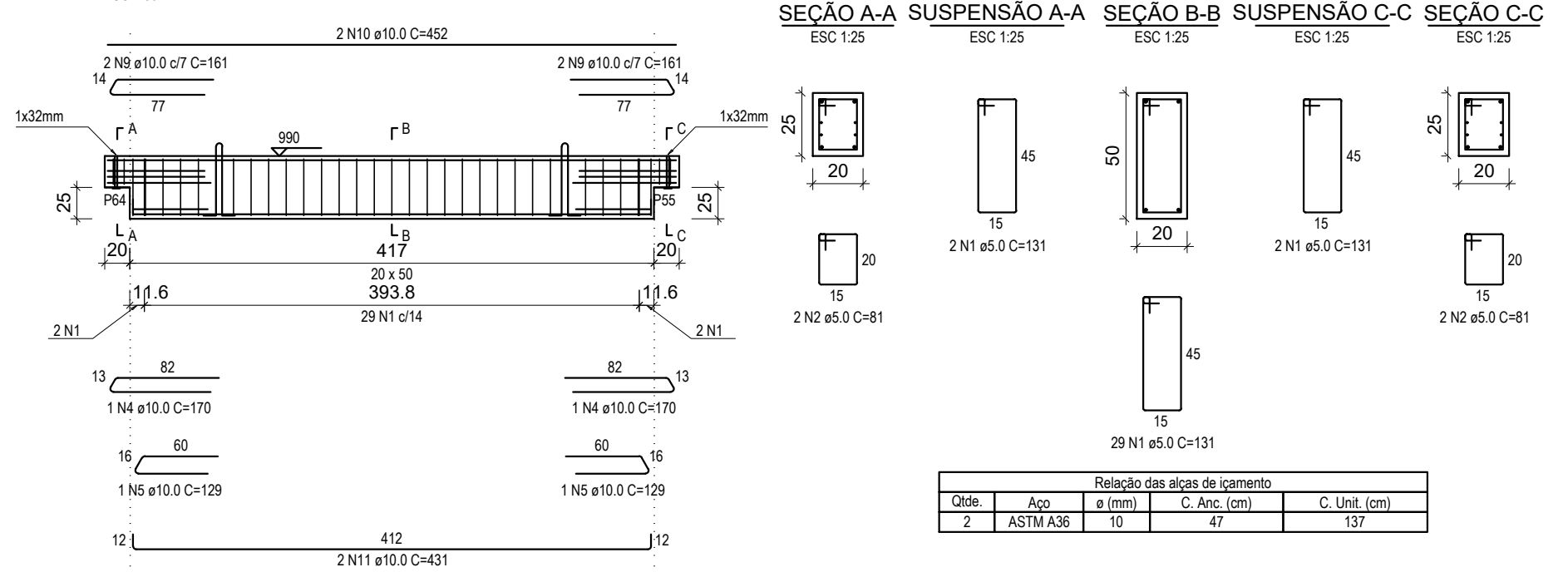


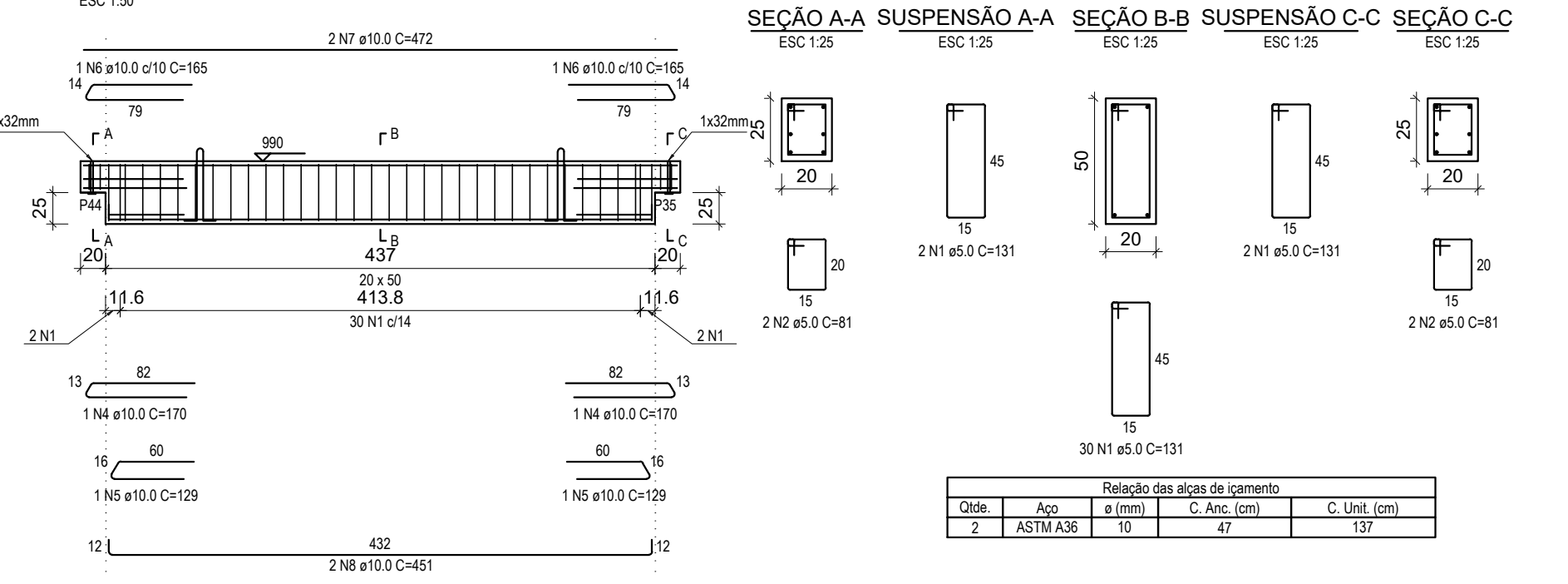
V17 (20 x 50)



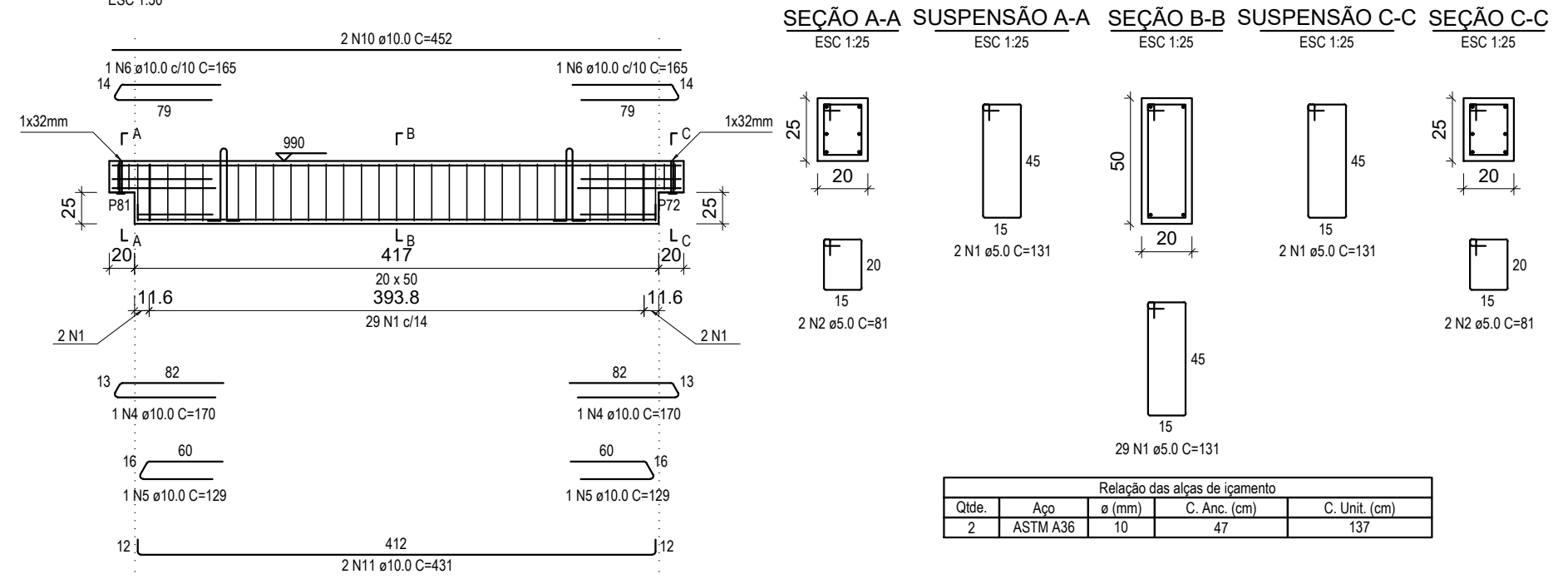
V19 (20 x 50)



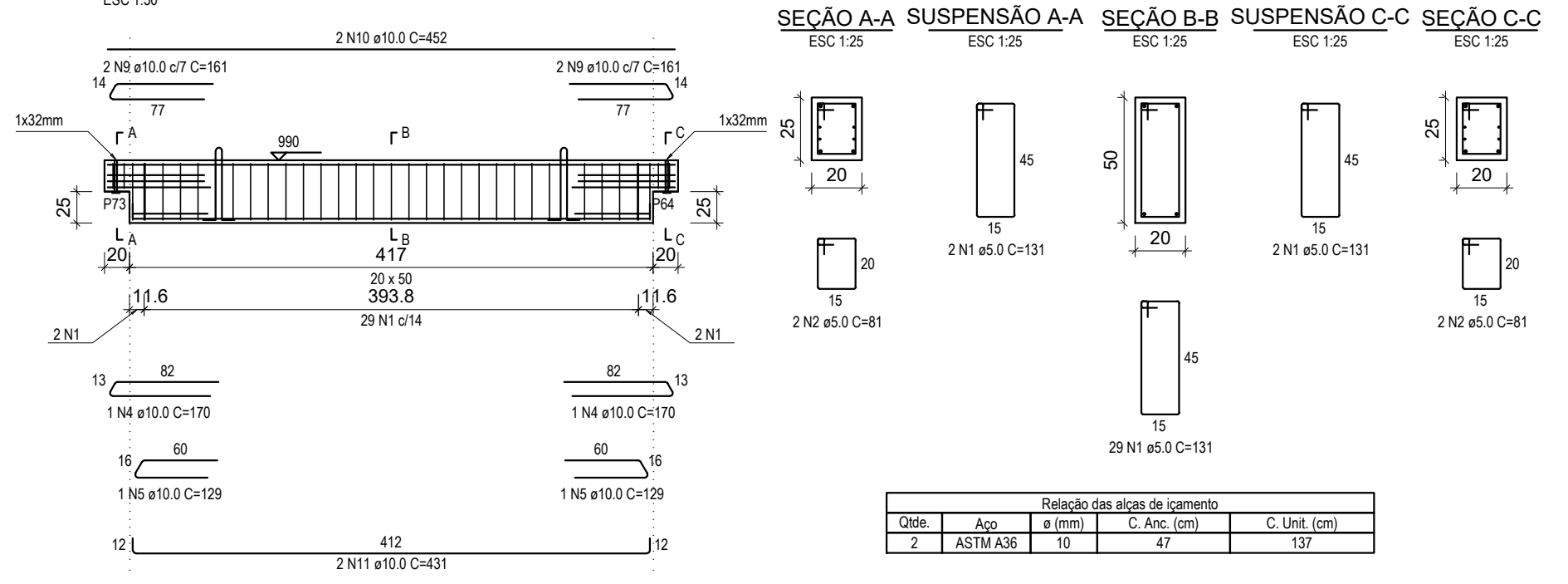
V21 (20 x 50)



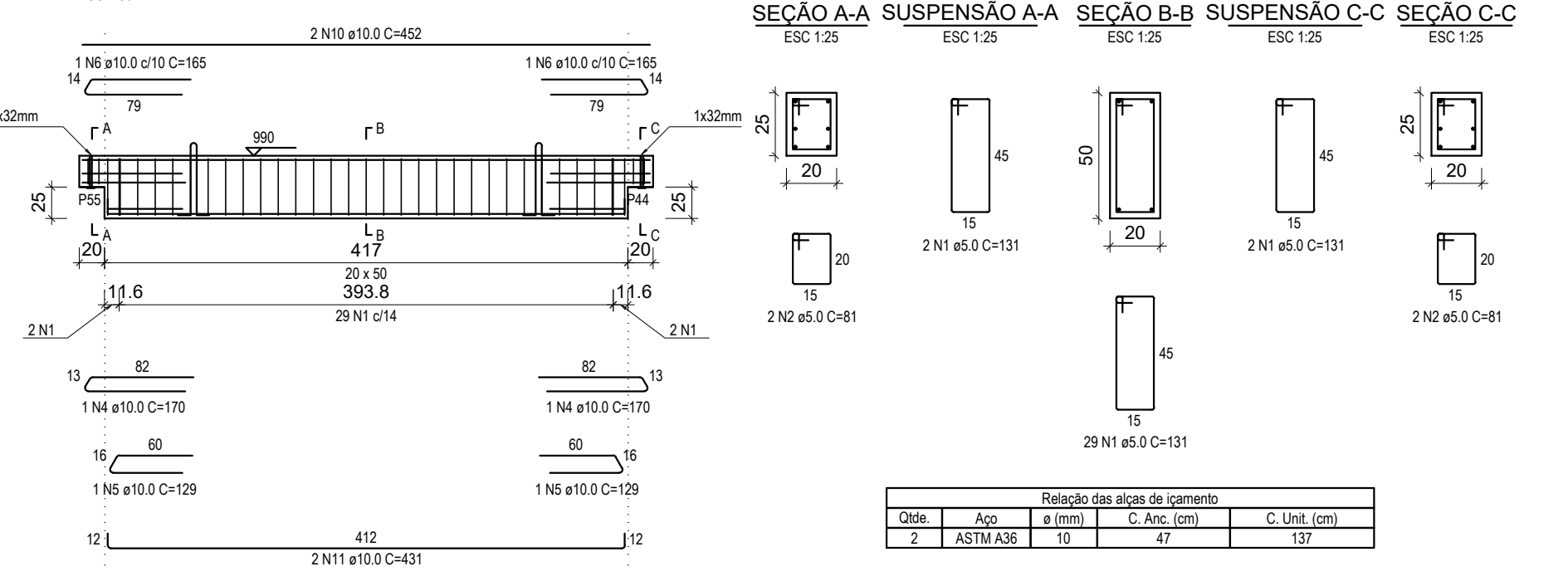
V23 (20 x 50)



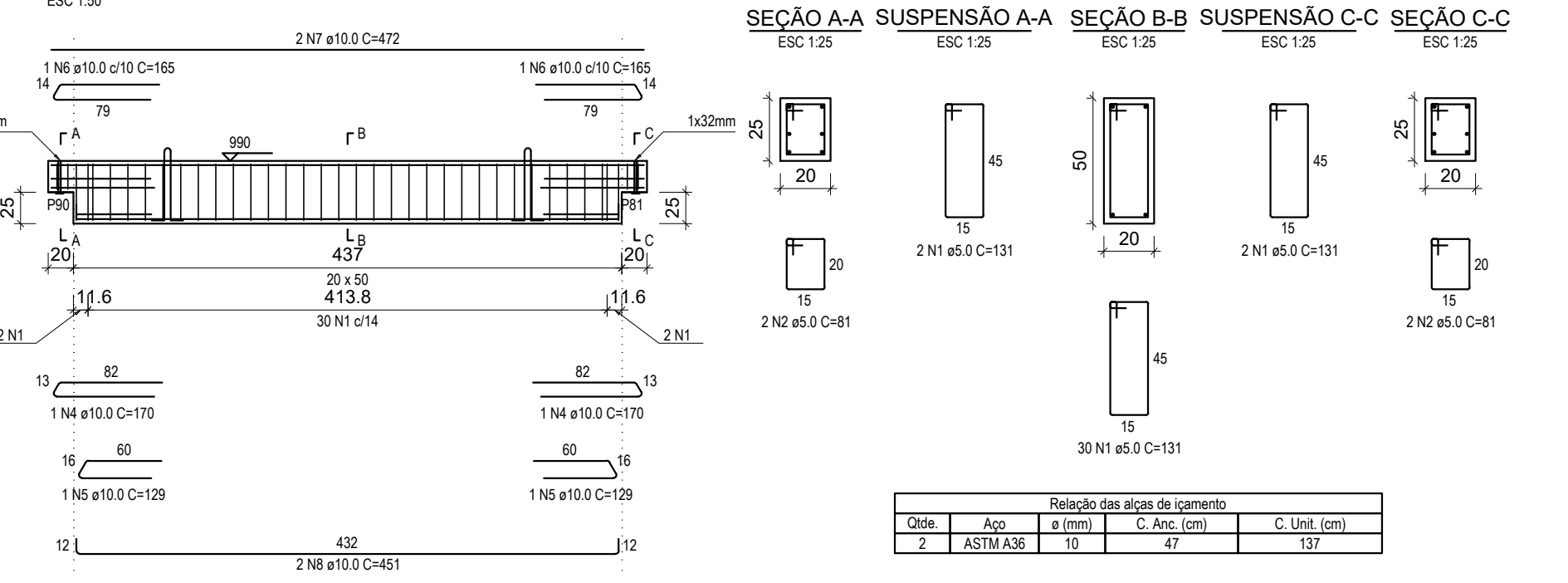
V18 (20 x 50)



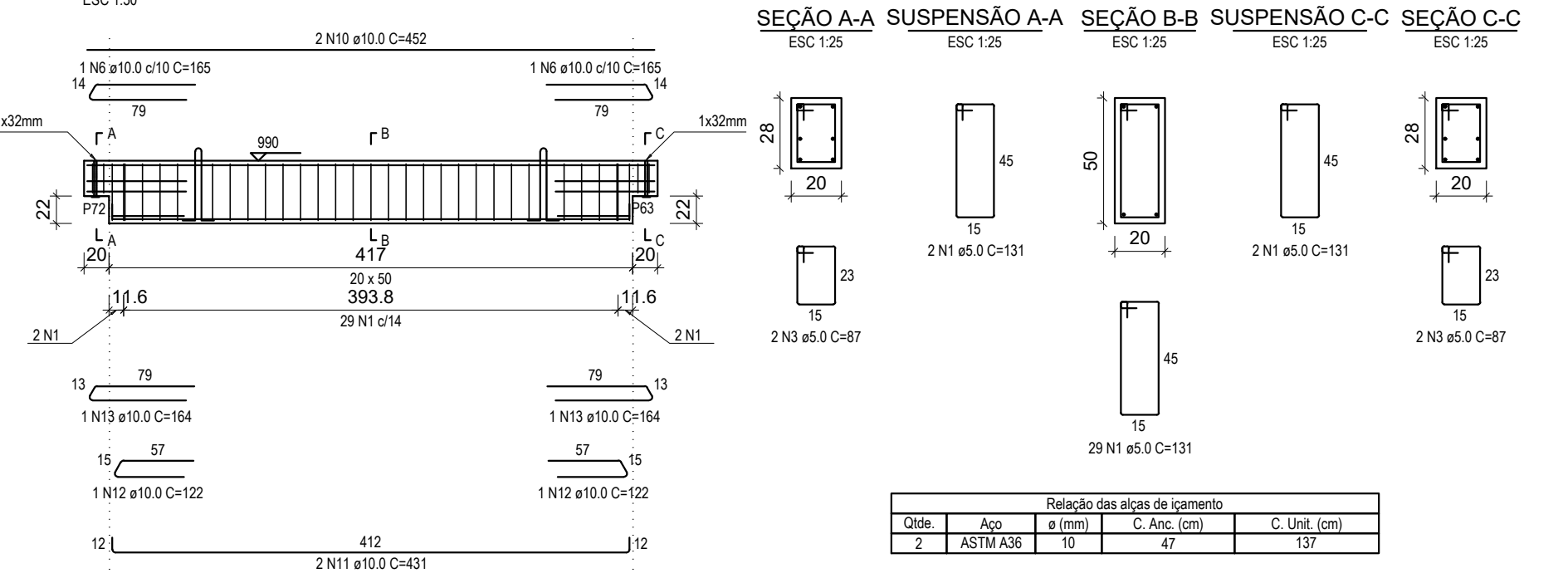
V20 (20 x 50)



V22 (20 x 50)



V24 (20 x 50)



RELAÇÃO DO AÇO

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	267	131	34977
	2	5.0	28	81	2268
CA50	3	5.0	4	87	348
	4	10.0	14	170	2380
	5	10.0	14	129	1806
	6	10.0	12	165	1980
	7	10.0	6	472	2832
	8	10.0	6	451	2706
	9	10.0	8	161	1288
	10	10.0	10	452	4520
	11	10.0	10	431	4310
	12	10.0	2	122	244
	13	10.0	2	164	328

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	10.0	223.9	151.9
CA60	5.0	375.9	63.7
PESO TOTAL (kg)			
CA50	151.9		
CA60	63.7		

Volume de concreto (C-40) = 3.56 m³

PROJETO ESTRUTURAL

Halla | arquitetura

Avenida Sete de Setembro, 50, Comercial C. Berri
Sala 09 | Centro | Timbó | Santa Catarina

+55 3333 1815 - +55 99214 4008
studiohallaqd@gmail.com
www.hallarq.com

CONSTRUÇÃO INSTITUCIONAL EM ALVENARIA - GINÁSIO ESCOLAR
Rodovia Estadual - SC, 416 - São Roque
Timbó - SC

Autor do Projeto: Anderson Halla
Arquiteto e Urbanista - CAU nº 176063-7

Assinatura:

Proprietário: Fundo Municipal de Educação - FMDE de Timbó
CNPJ: 32.257.384/0001-19

Assinatura:

Escala: Indicada
Revisão: 00
Data: Maio 2020

Prancha:

Especificação:
VIGAS TOPO V17-V26

E 41