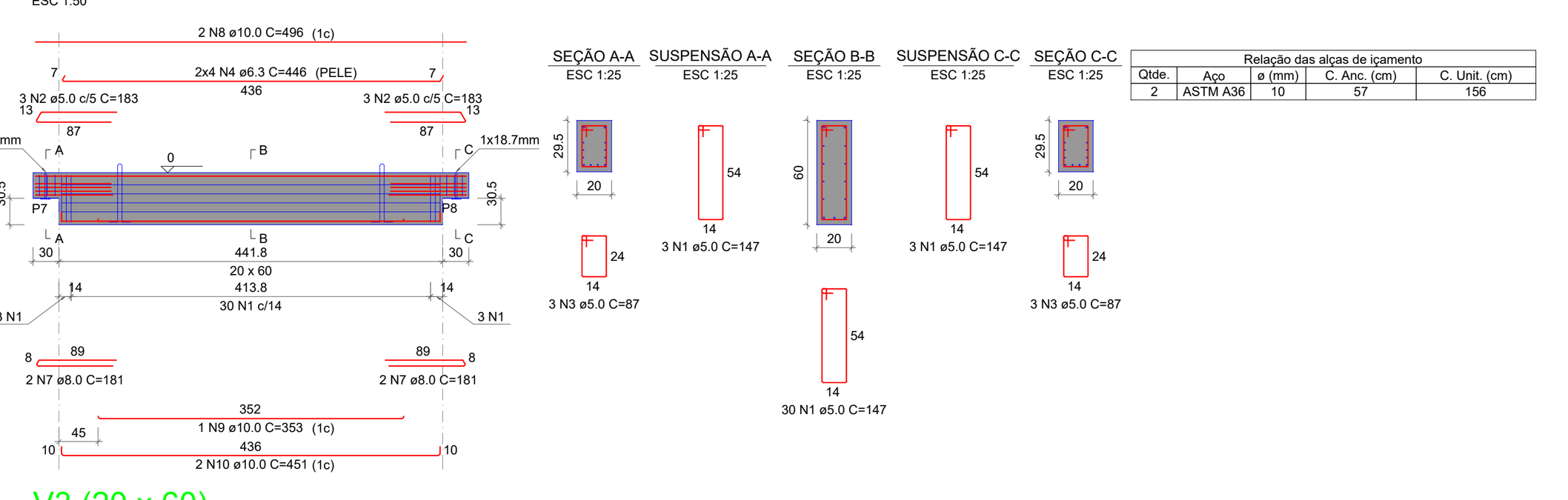
V2 (20 x 60)
ESC 1:50



Relação das alças de içamento

Qtde.	Aço	ø (mm)	C. Anc. (cm)	C. Unit. (cm)
2	ASTM A36	10	57	156

RELAÇÃO DO AÇO

ELEMENTO	AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
V2	CA60	1	5.0	36	147	5292
	CA60	2	5.0	6	183	1098
	CA60	3	5.0	6	87	522
	CA50	4	6.3	8	446	3568
	CA50	7	8.0	4	181	724
	CA50	8	10.0	2	496	992
	CA50	9	10.0	1	353	353
	CA50	10	10.0	2	451	902

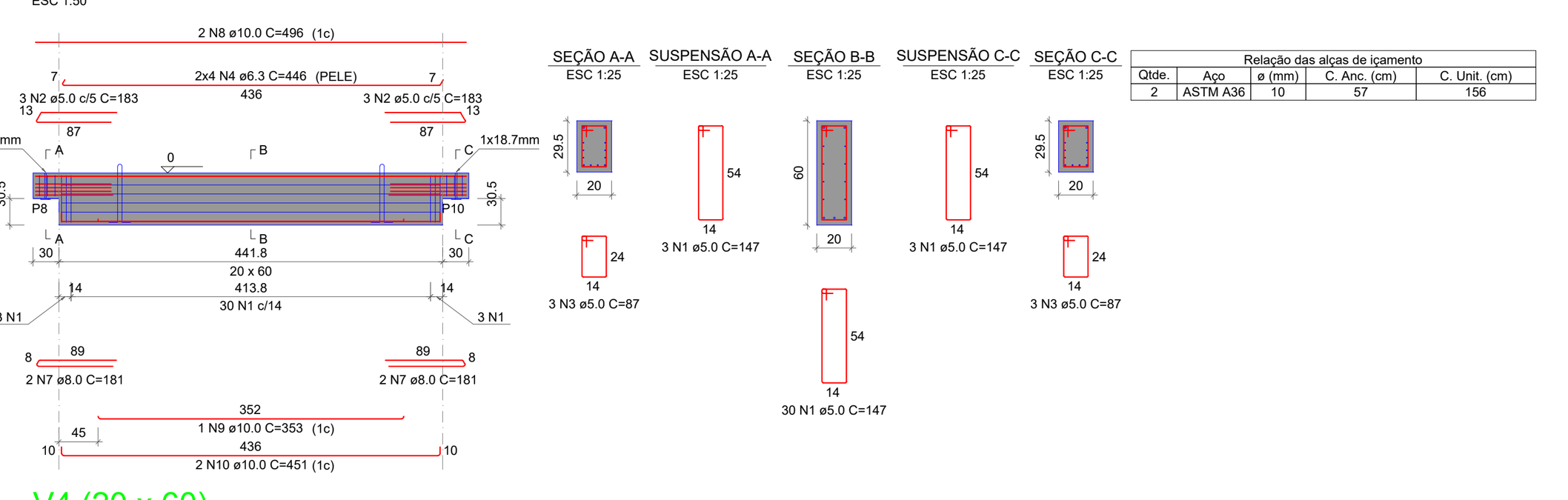
RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 10% (Barras)	PESO + 10% (kg)
CA50	6.3	35.7	4	9.6
	8.0	7.2	1	3.1
	10.0	22.5	3	15.2
CA60	5.0	69.1	7	11.7

PESO TOTAL (kg)	
CA50	28
CA60	11.7

Volume de concreto (C-40) = 0.57 m³
Peso total da peça = 1413.75 kg
Área de forma = 0.00 m²

V3 (20 x 60)
ESC 1:50



Relação das alças de içamento

Qtde.	Aço	ø (mm)	C. Anc. (cm)	C. Unit. (cm)
2	ASTM A36	10	57	156

RELAÇÃO DO AÇO

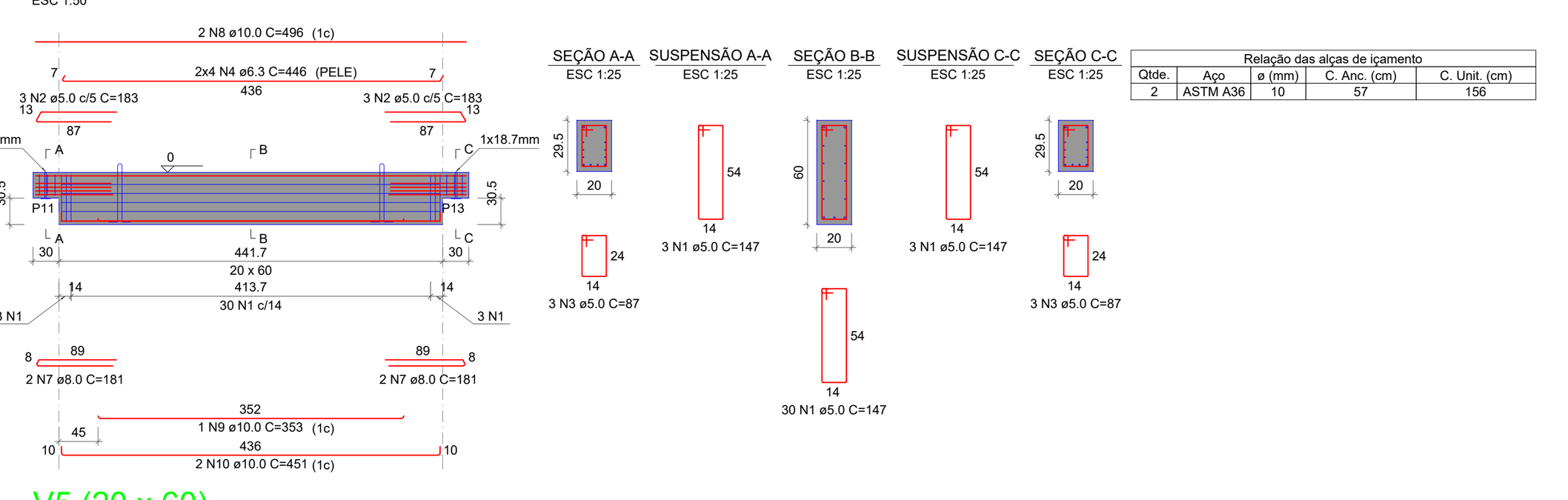
ELEMENTO	AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
V3	CA60	1	5.0	36	147	5292
	CA60	2	5.0	6	183	1098
	CA60	3	5.0	6	87	522
	CA50	4	6.3	8	446	3568
	CA50	7	8.0	4	181	724
	CA50	8	10.0	2	496	992
	CA50	9	10.0	1	353	353
	CA50	10	10.0	2	451	902

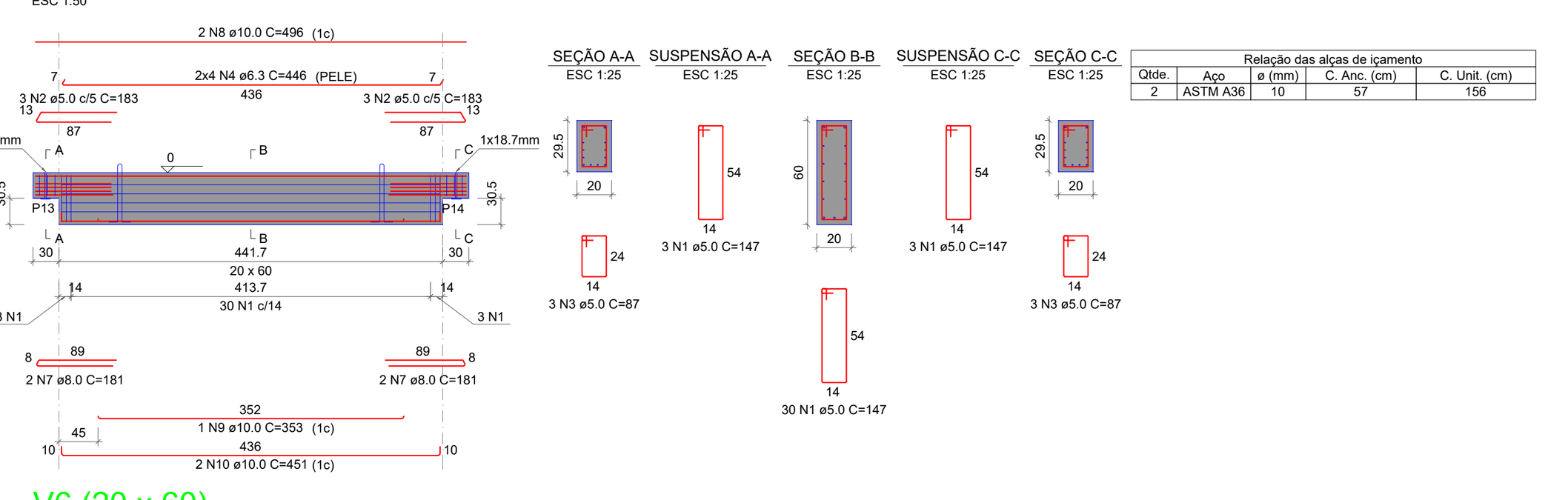
RESUMO DO AÇO

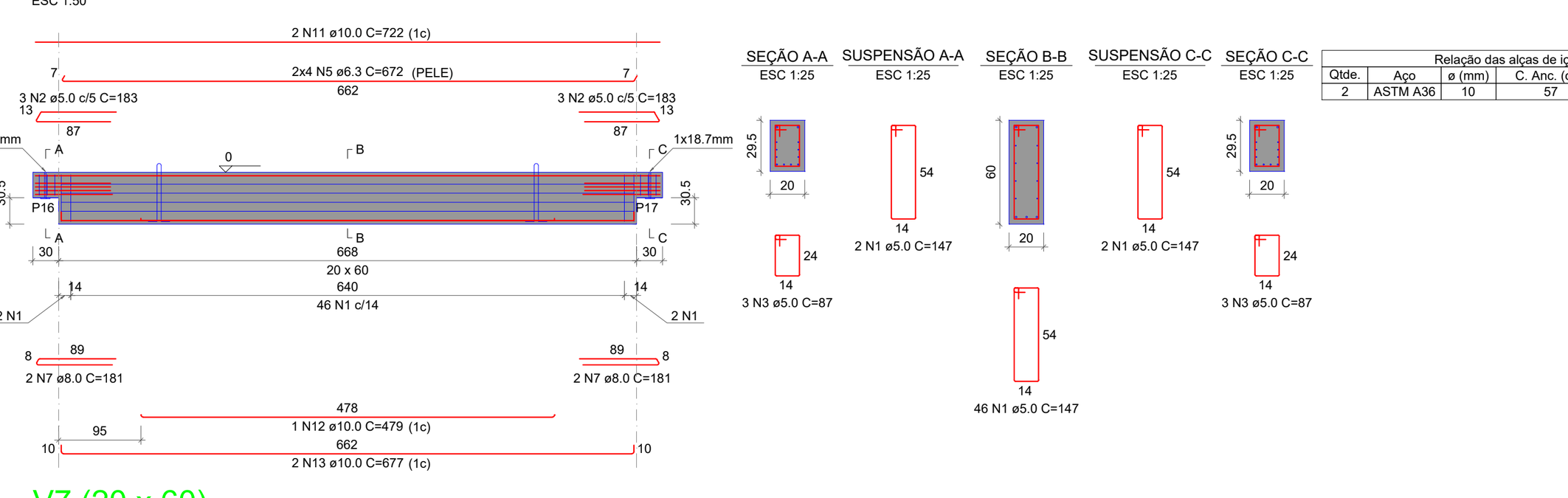
AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 10% (Barras)	PESO + 10% (kg)
CA50	6.3	35.7	4	9.6
	8.0	7.2	1	3.1
	10.0	22.5	3	15.2
CA60	5.0	69.1	7	11.7

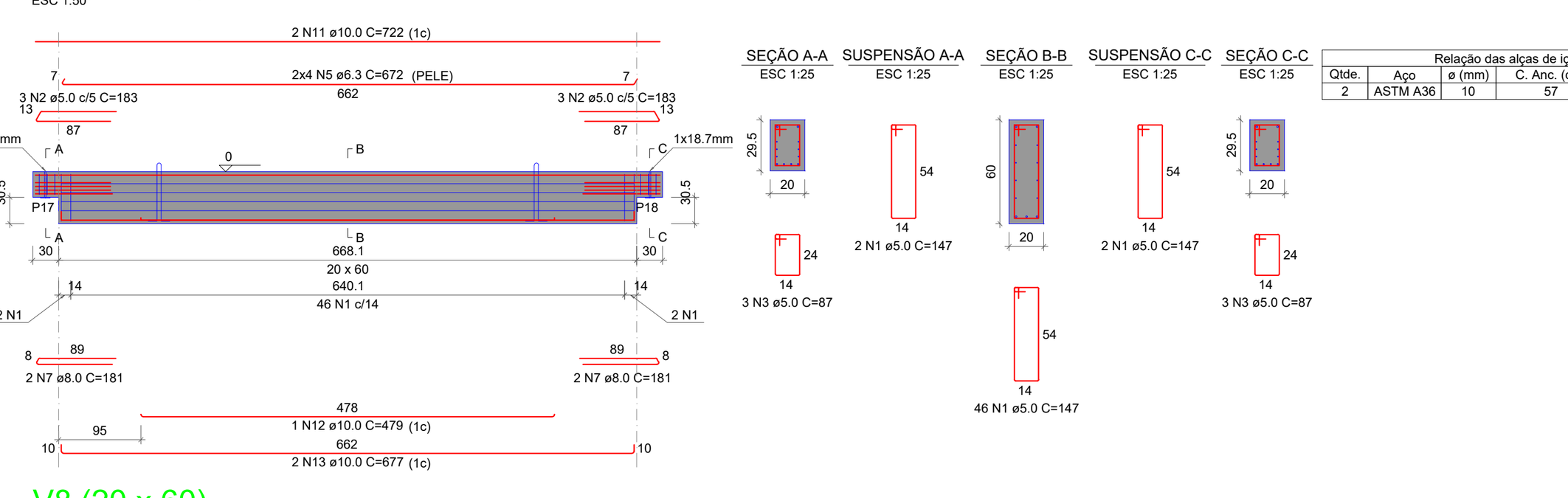
PESO TOTAL (kg)	
CA50	28
CA60	11.7

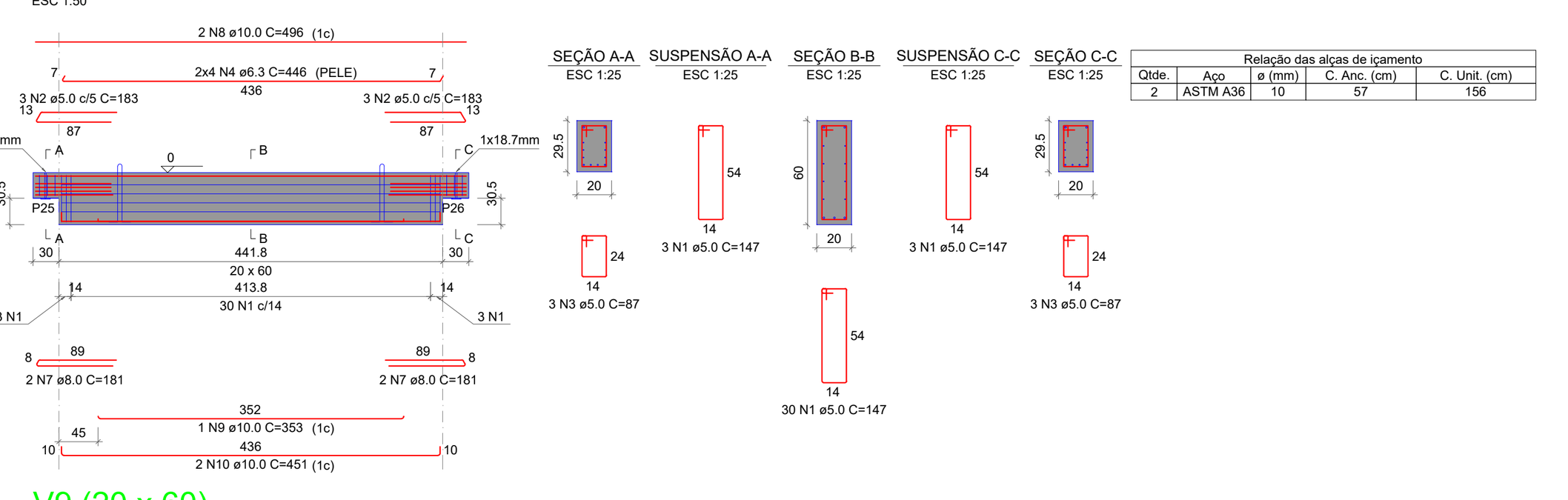
Volume de concreto (C-40) = 0.57 m³
Peso total da peça = 1413.75 kg
Área de forma = 0.00 m²

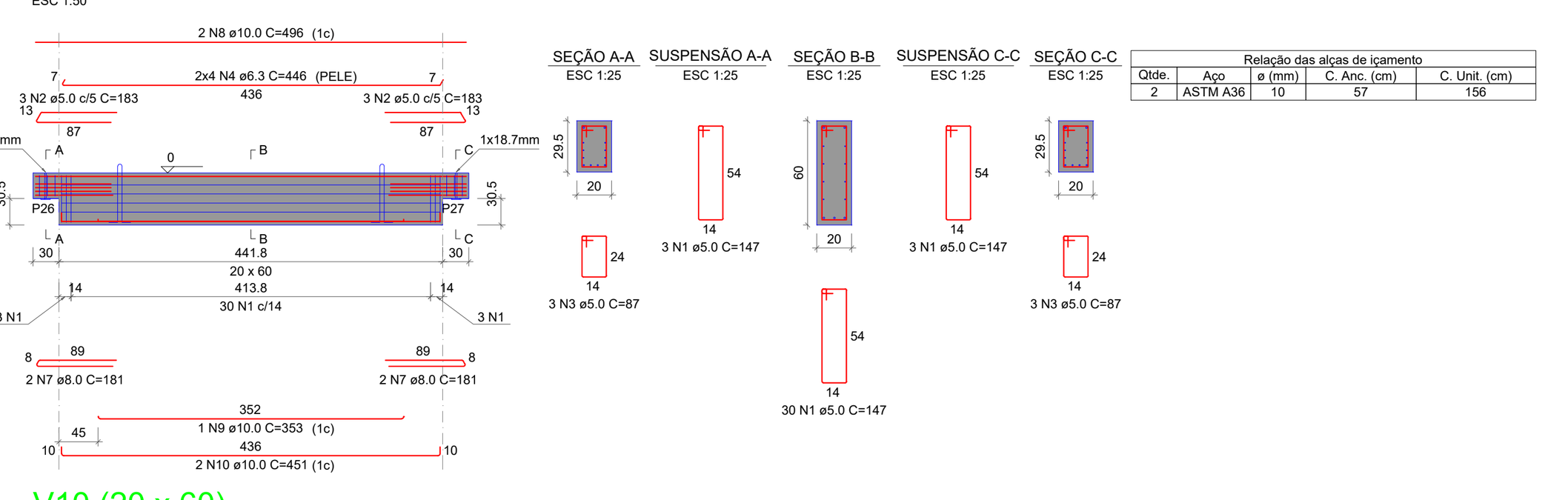
V4 (20 x 60)


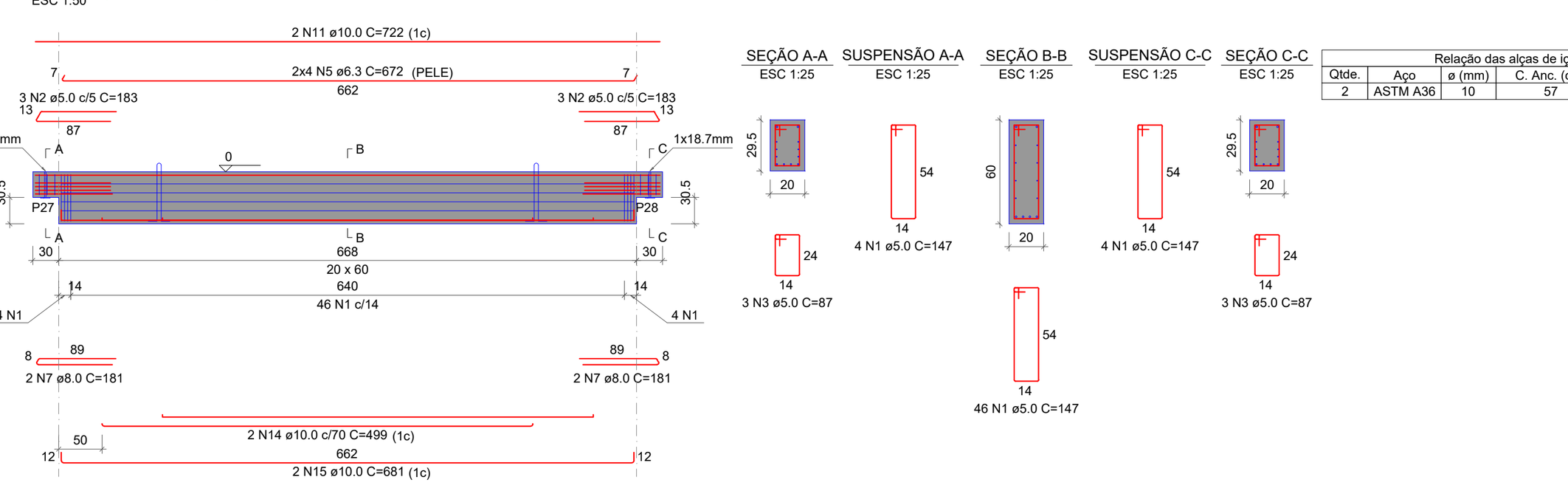
V5 (20 x 60)


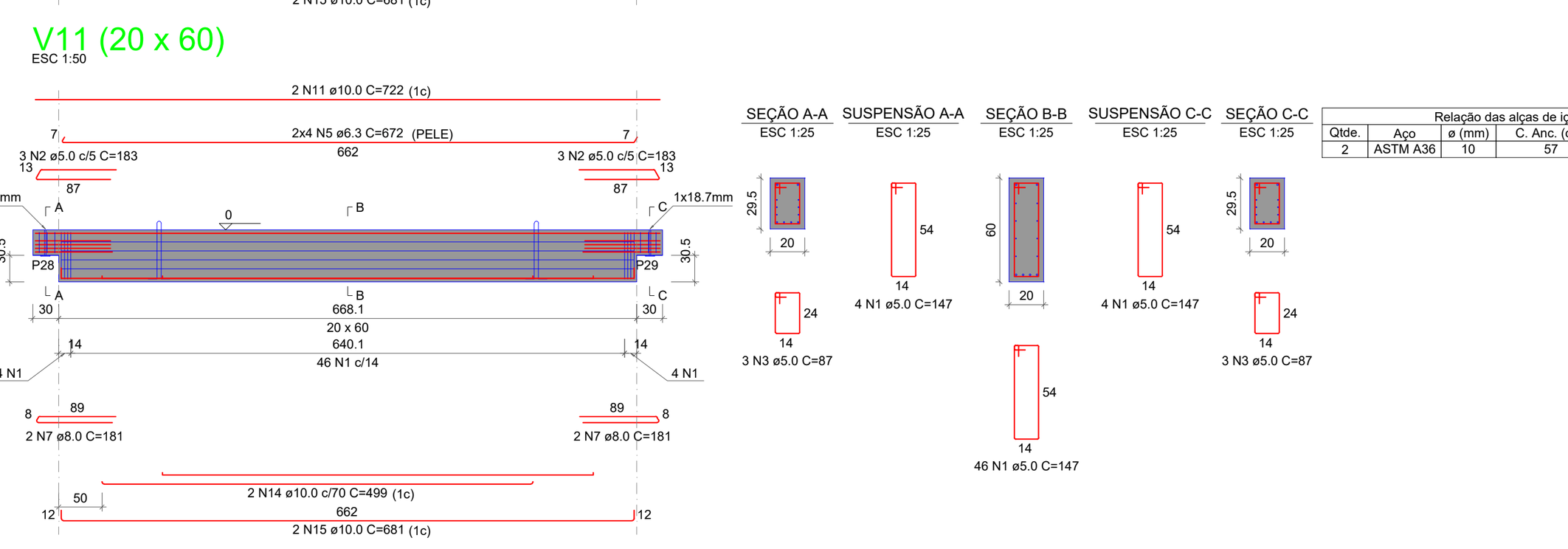
V6 (20 x 60)


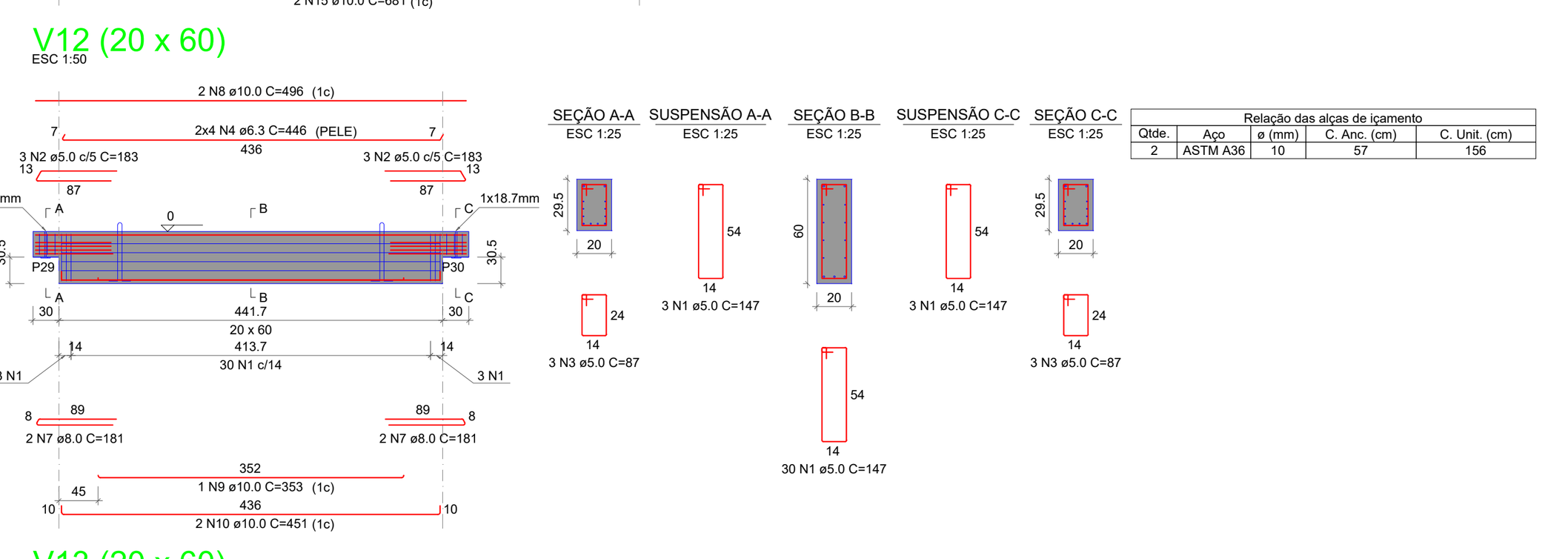
V7 (20 x 60)


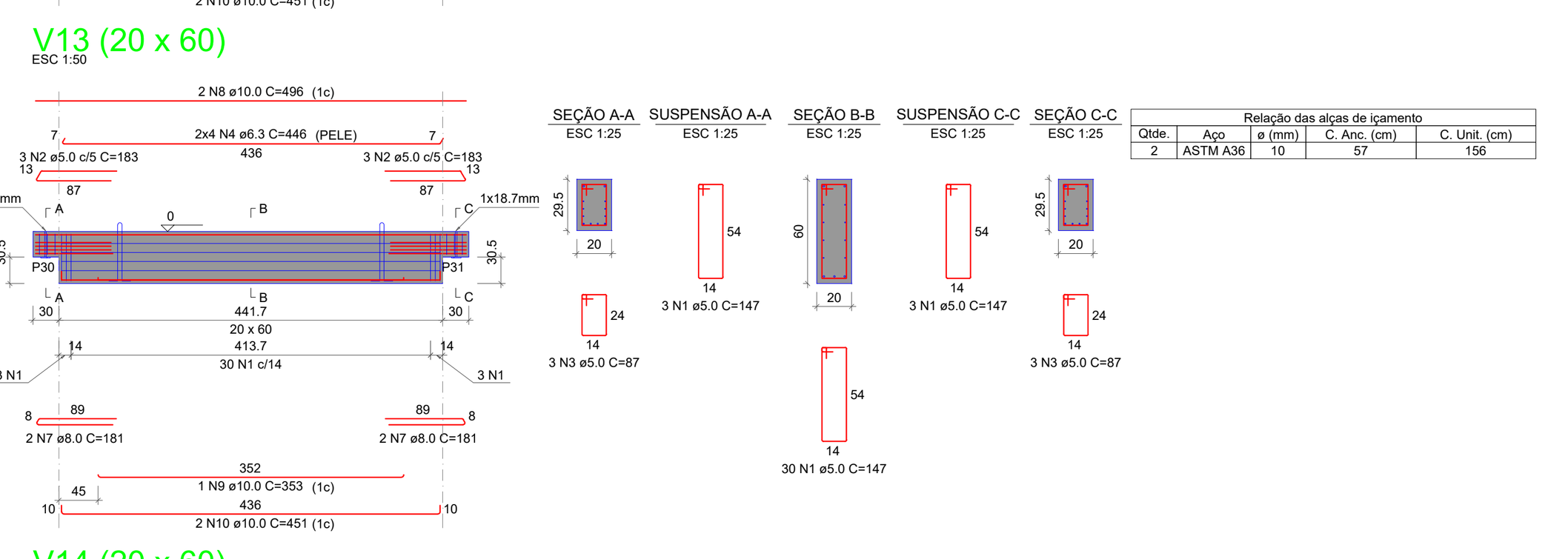
V8 (20 x 60)


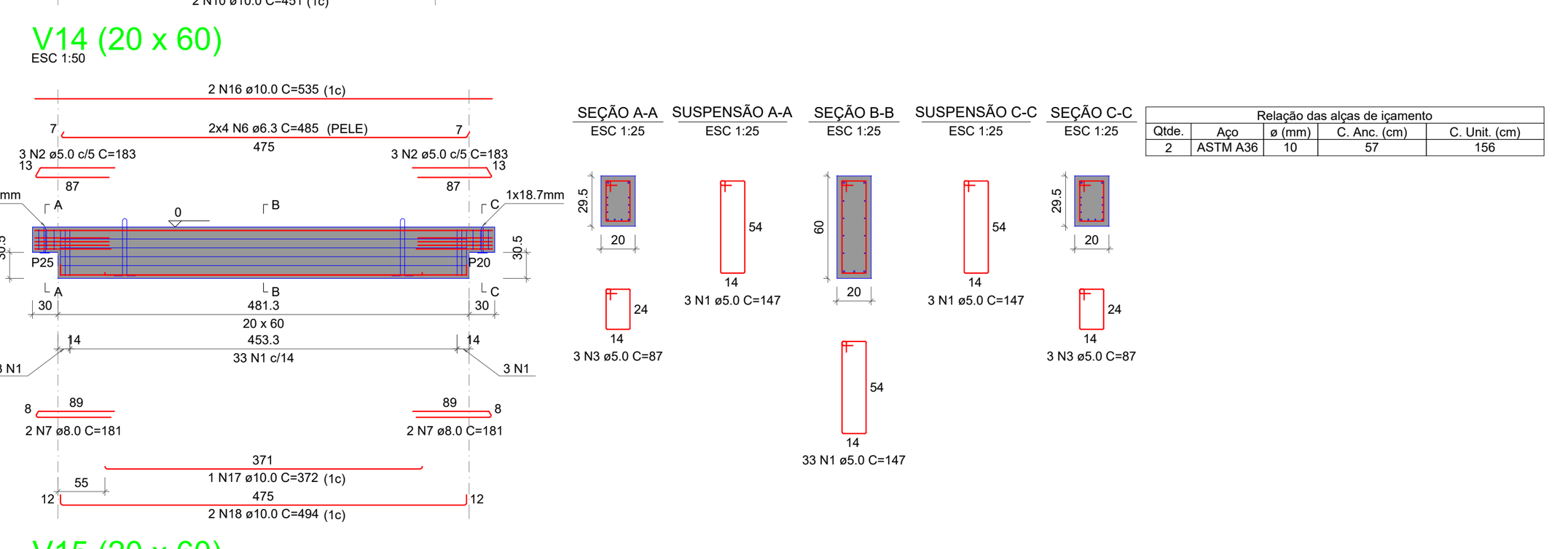
V9 (20 x 60)


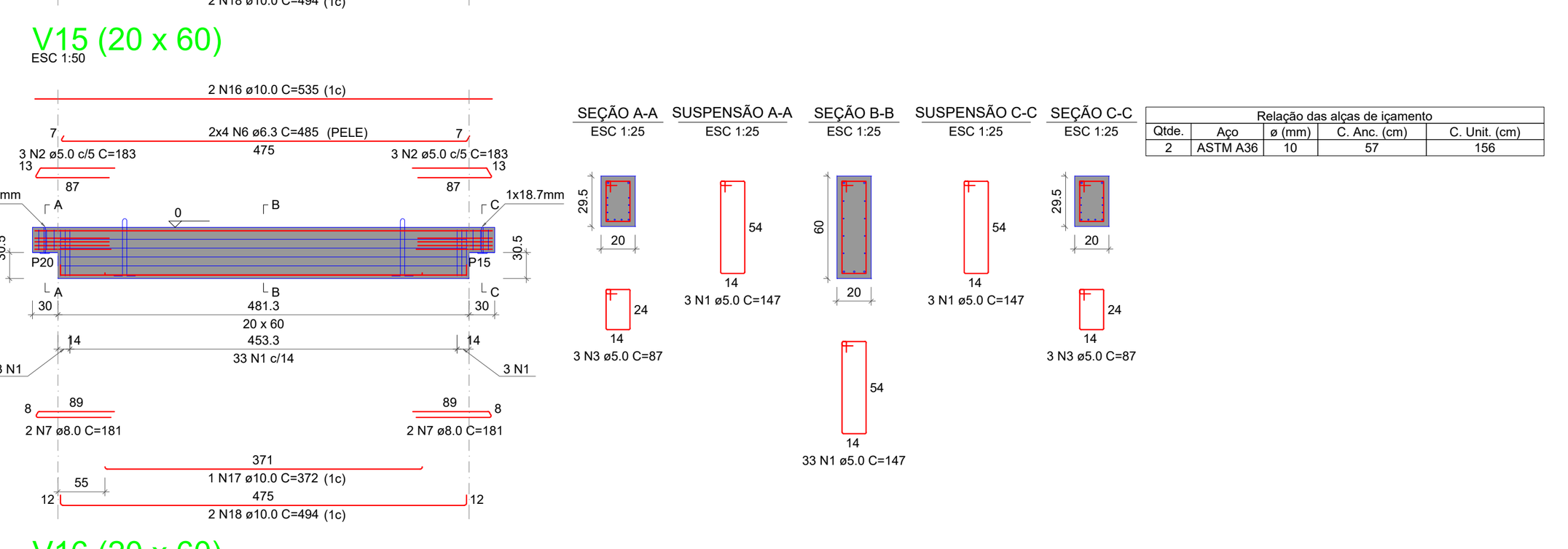
V10 (20 x 60)


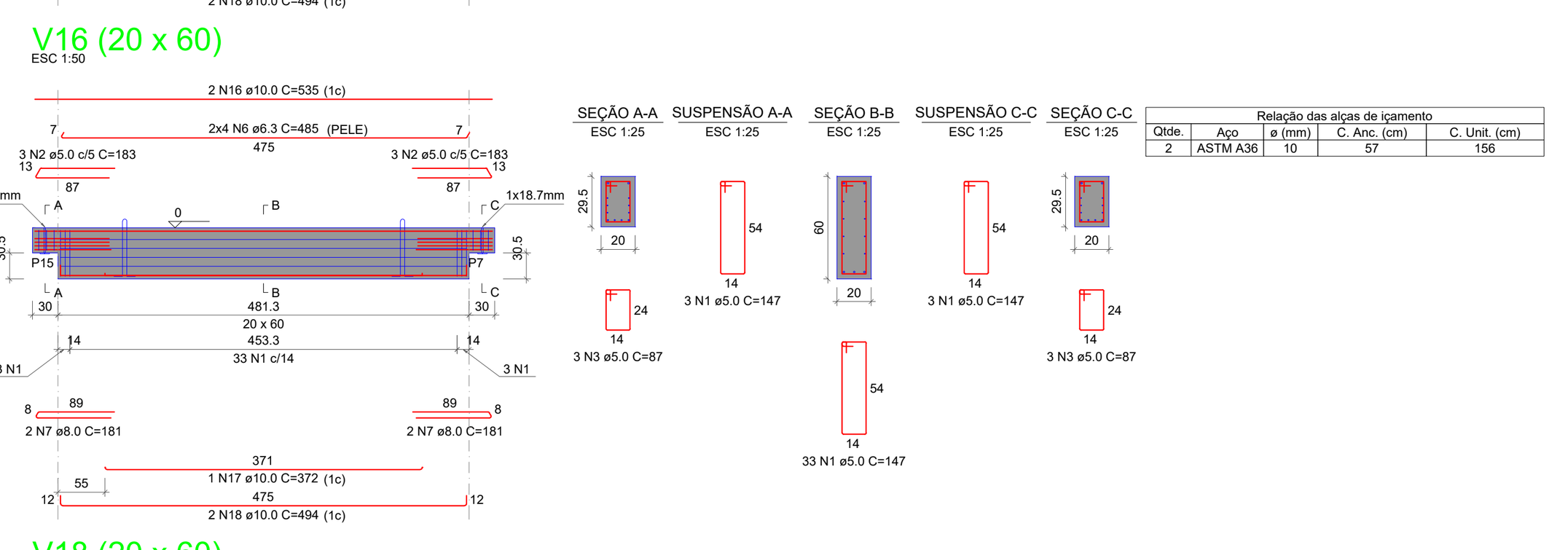
V11 (20 x 60)


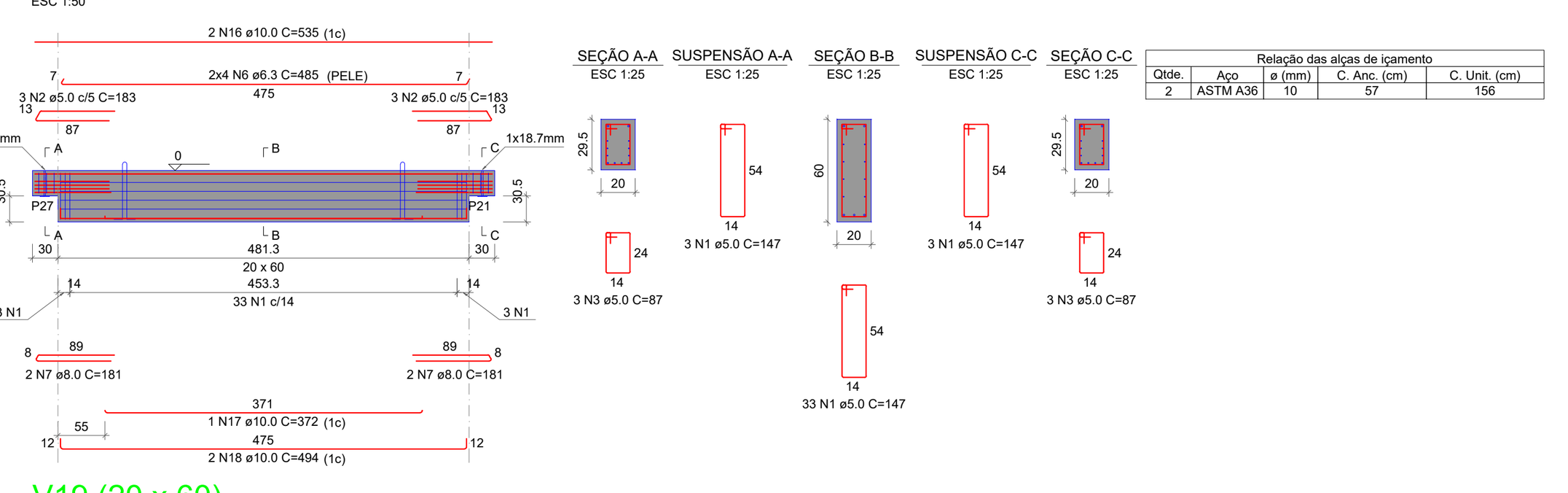
V12 (20 x 60)


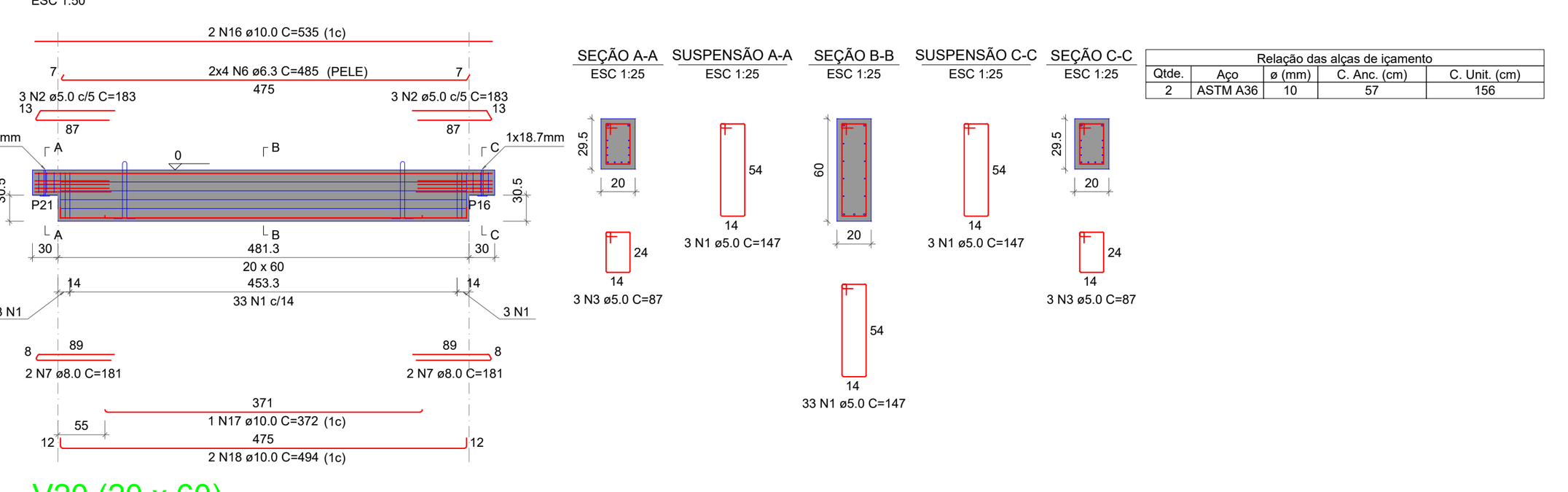
V13 (20 x 60)


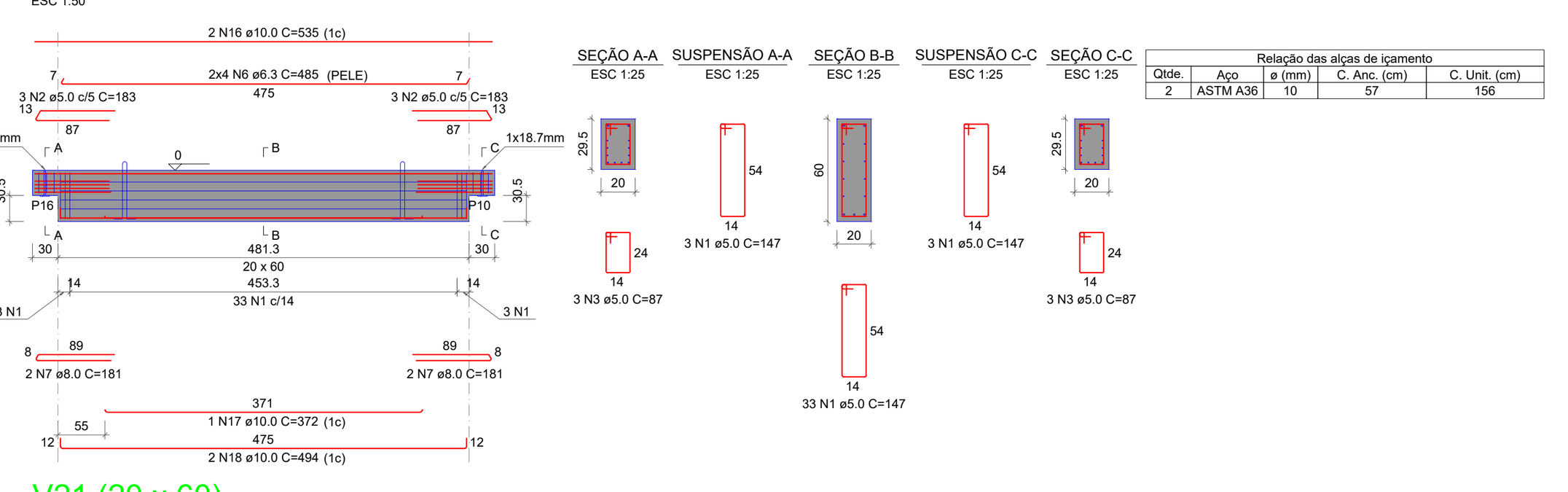
V14 (20 x 60)


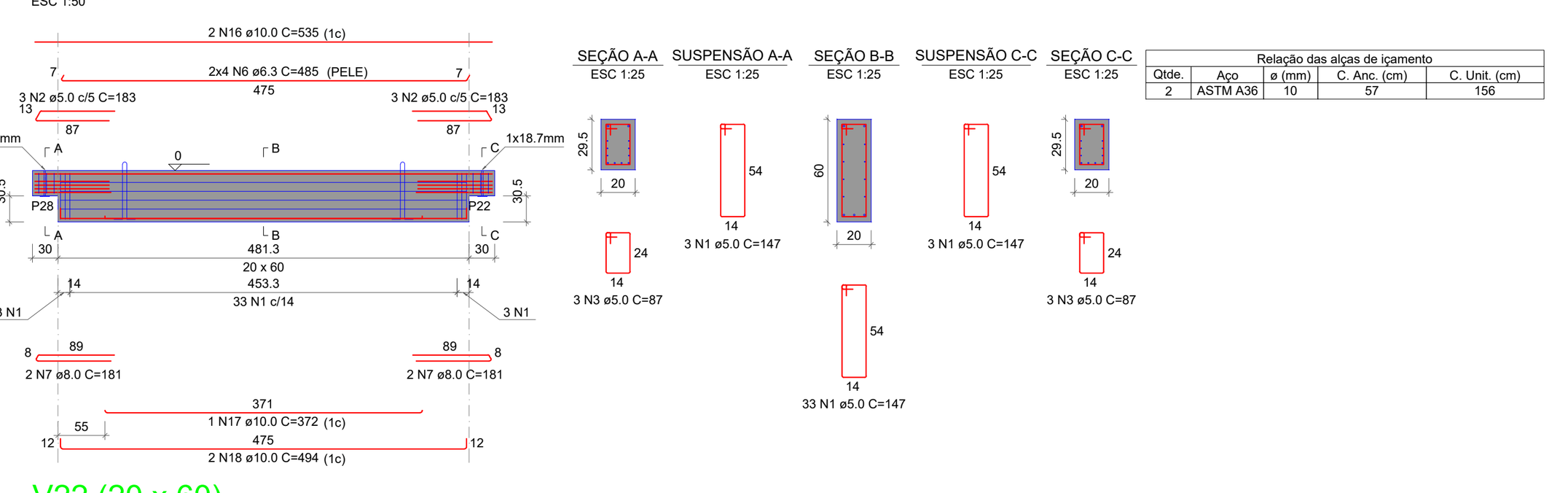
V15 (20 x 60)


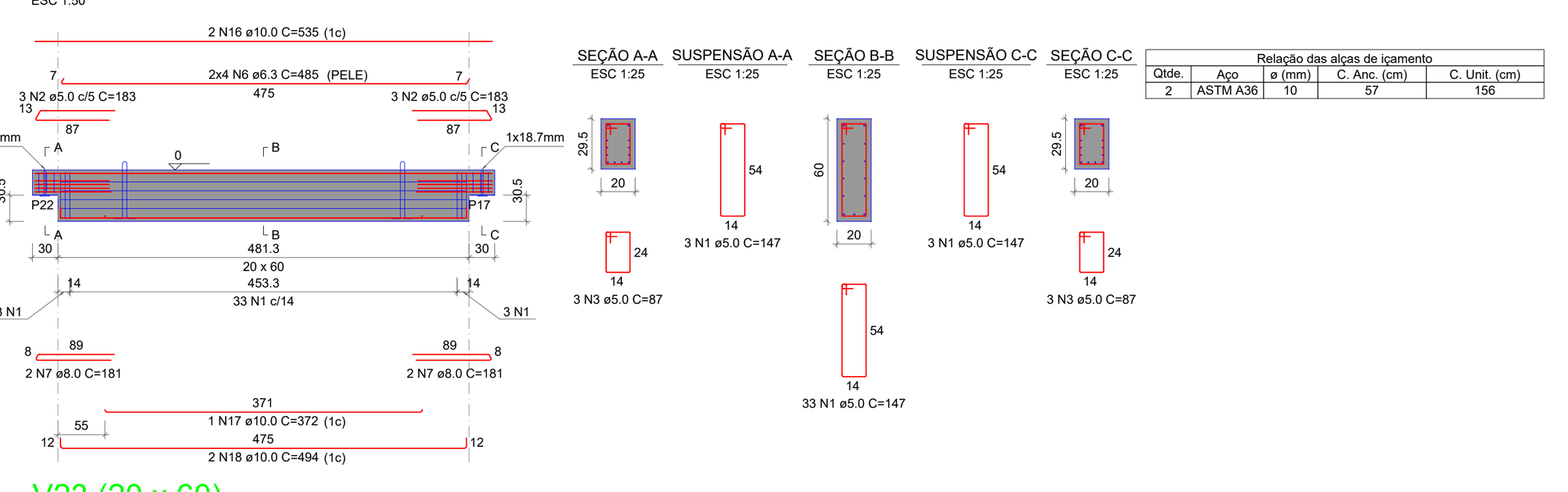
V16 (20 x 60)


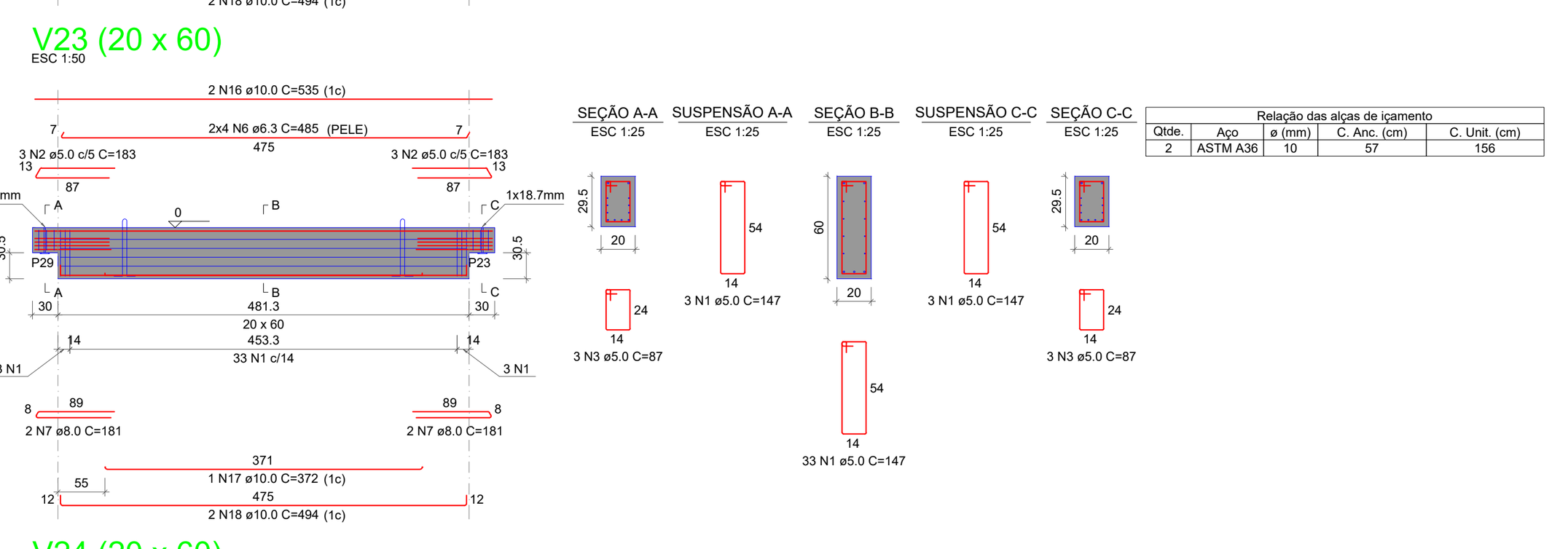
V18 (20 x 60)


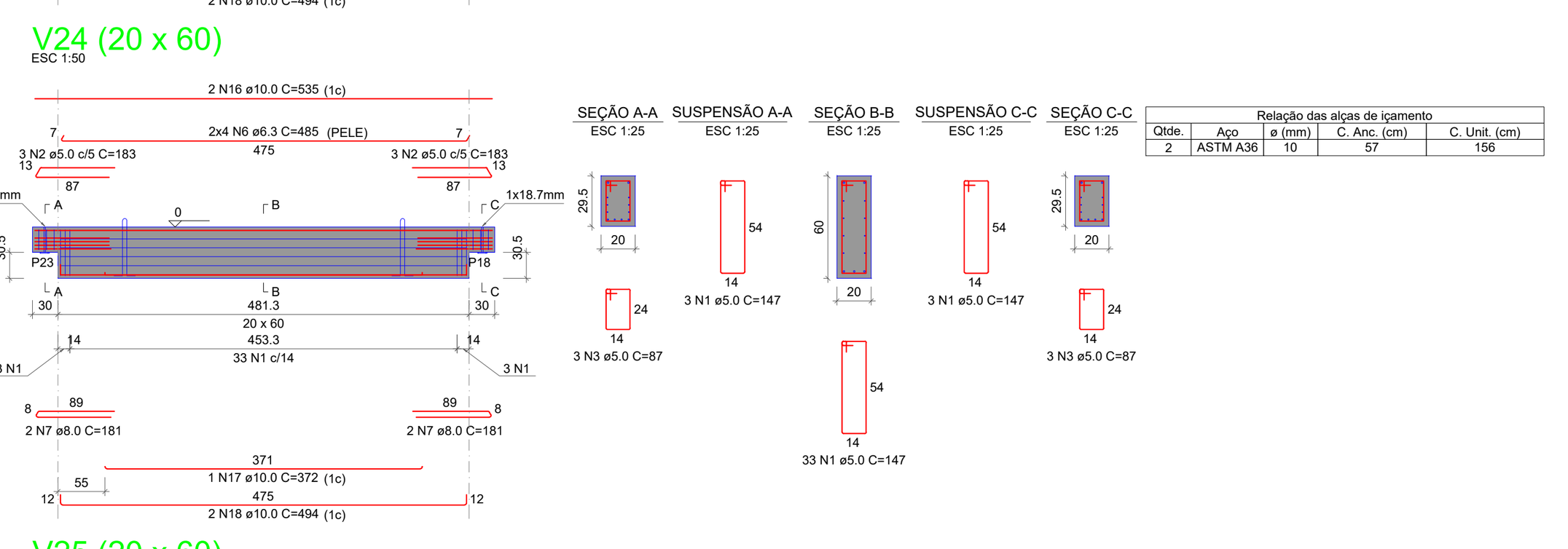
V19 (20 x 60)


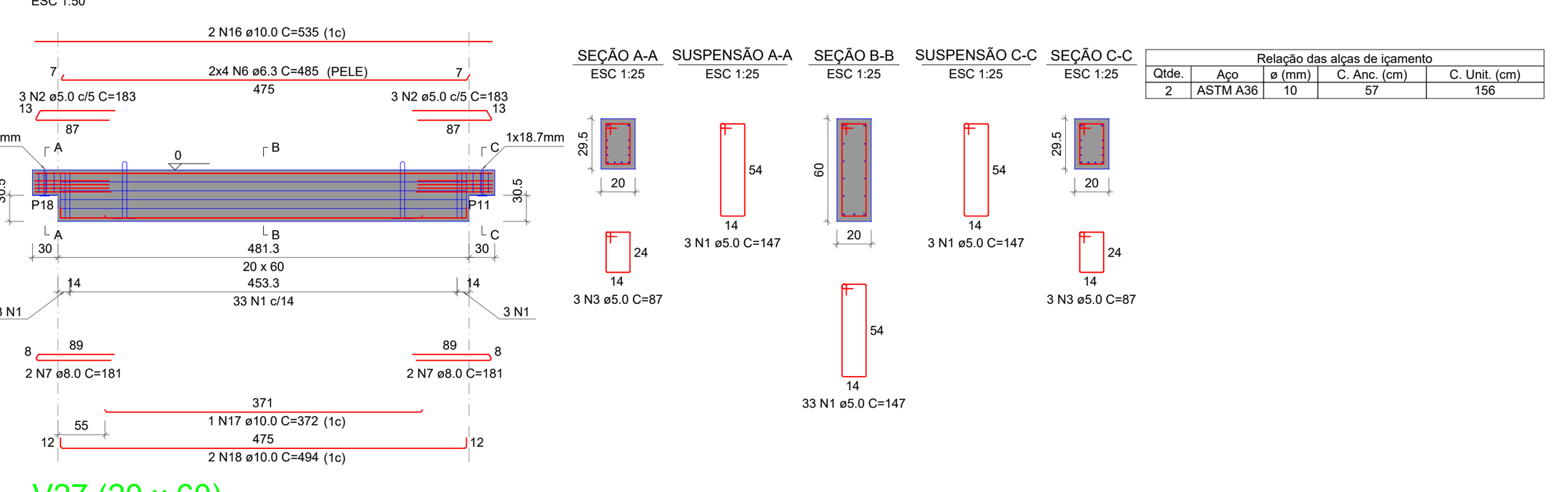
V20 (20 x 60)


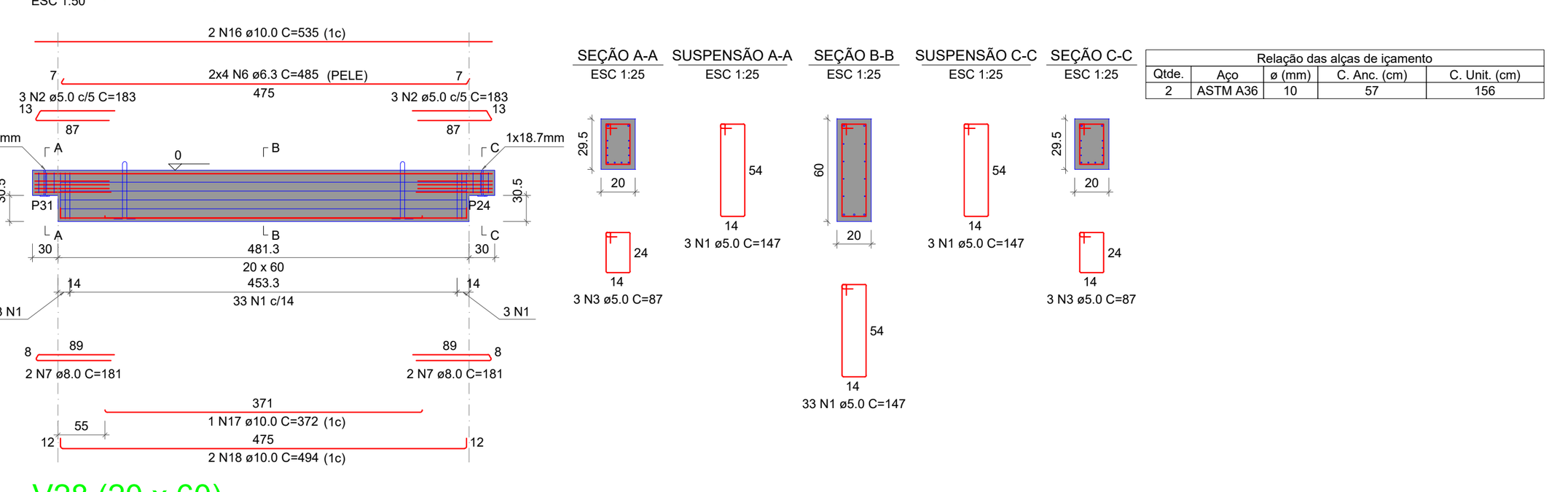
V21 (20 x 60)


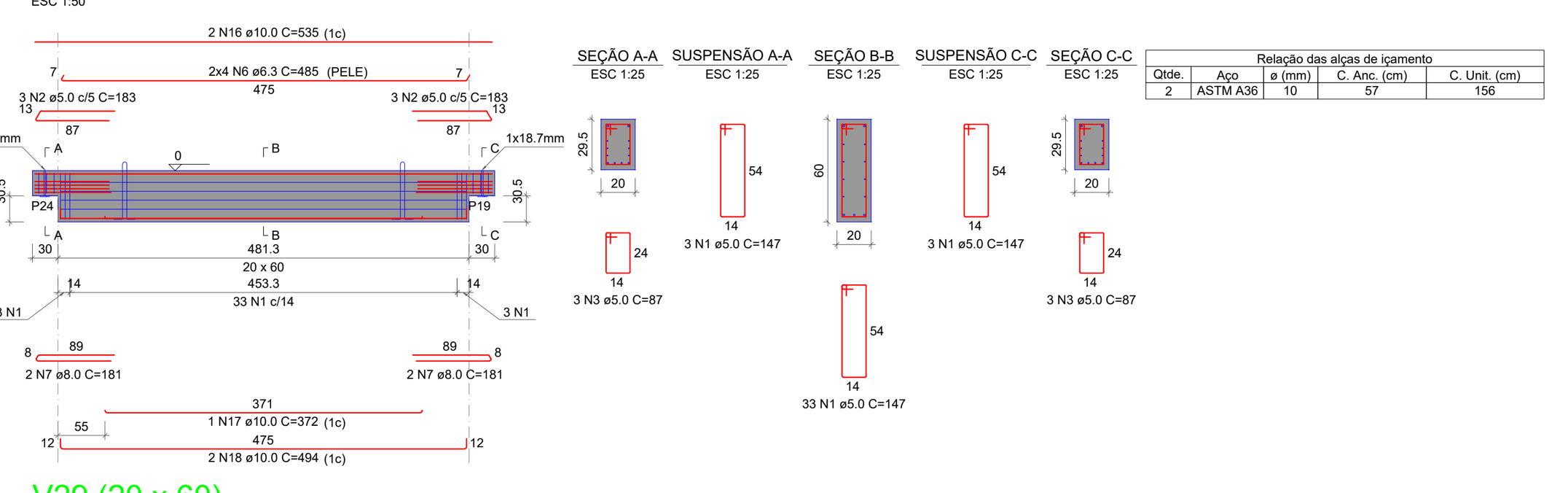
V22 (20 x 60)


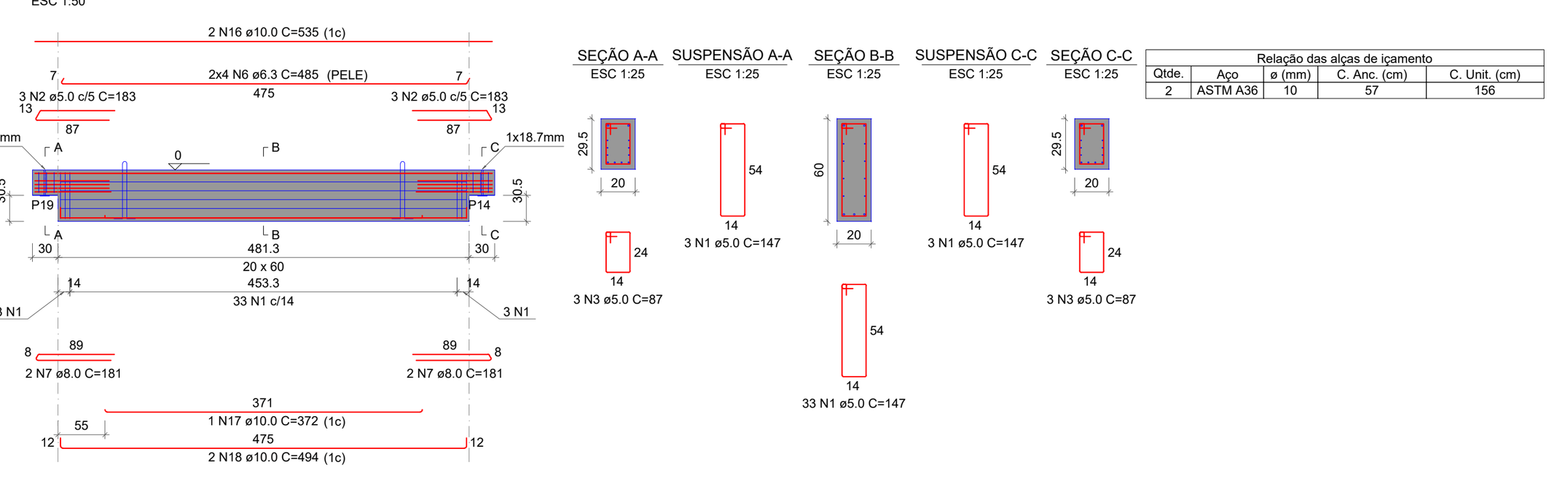
V23 (20 x 60)


V24 (20 x 60)


V25 (20 x 60)


V27 (20 x 60)


V28 (20 x 60)


V29 (20 x 60)


RELAÇÃO DO AÇO

V2	V3	V4
V5	V6	V7
V8	V9	V10
V11	V12	V13
V14	V15	V16
V18	V19	V20
V21	V22	V23
V24	V25	V27
V28	V29	

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	998	147	146706
	2	5.0	156	183	28548
	3	5.0	156	87	13572
CA50	4	6.3	64	446	28544
	5	6.3	32	672	21504
	6	6.3	112	485	54320
	7	8.0	98	181	17738
	8	8.0	1	314	314
	9	8.0	3	452	1356
	10	8.0	6	181	1086
	11	10.0	16	496	7936
	12	10.0	7	353	2471
	13	10.0	14	451	6314
	14	10.0	8	722	5776
	15	10.0	4	479	1916
	16	10.0	8	681	5448
	17	10.0	28	535	14980
	18	10.0	14	372	5208
	19	10.0	28	490	13720

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 10% (Barras)	PESO + 10% (kg)
CA50	6.3	1043.7	96	280.9
	8.0	204.9	19	89
	10.0	637.7	59	432.5
CA60	5.0	1888.3	174	320.2

PESO TOTAL (kg)	
CA50	802.4
CA60	320.2

Volume de concreto (C-40) = 16.45 m³
Área de forma = 0.00 m²

Revisão/Data

ENGEPROSUL ENGENHARIA LTDA
CNPJ: 51.296.229/0001-56
FORQUILHINHA | SC
CREA/SC: 225308-7
RESPONSÁVEL TÉCNICO
JONATAN CARDOSO DE OLIVEIRA -CREA/SC:143410-3
FONE: (51) 92007-1762 | (51)99558-8739

PROJETO ESTRUTURAL

ESTRUTURAL

GOVERNO MUNICIPAL DE CAMPO BOM/RS

SECRETARIA MUNICIPAL DE OBRAS

Obra: PAVILHÃO 03

Local: RUA NILO PEÇANHA, Nº 715, BAIRRO N (VILA RICA) - CAMPO BOM/RS, CEP 93700-000
QUADRA 29 - LOTE GLEBA 3 - MATRÍCULAS N°31.396 E 31.397

PROPRIETÁRIO : Município de Campo Bom/RS - CNPJ: 90.832.619/0001-55

DESCRIMINAÇÃO : VIGAS PM PAVIMENTO COBERTURA

RESPONSÁVEL TÉCNICO

JONATAN CARDOSO DE OLIVEIRA
CREA/SC:143410-3

JOSÉ LADISLAU FERREIRA NETO
CAU/RS: A 147969-5

ESC : INDICADA

PRANCHA

E06

PROPRIETÁRIO :
Município de Campo Bom/RS
CNPJ: 90.832.619/0001-55