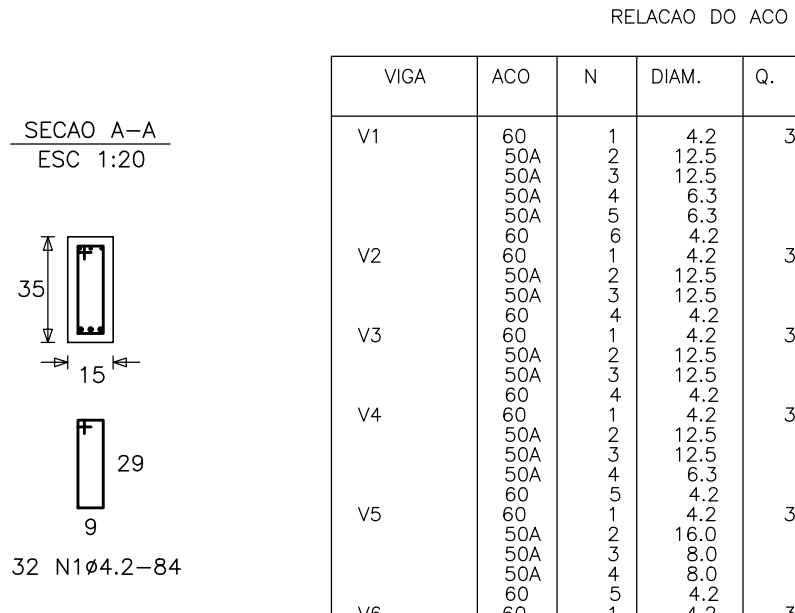
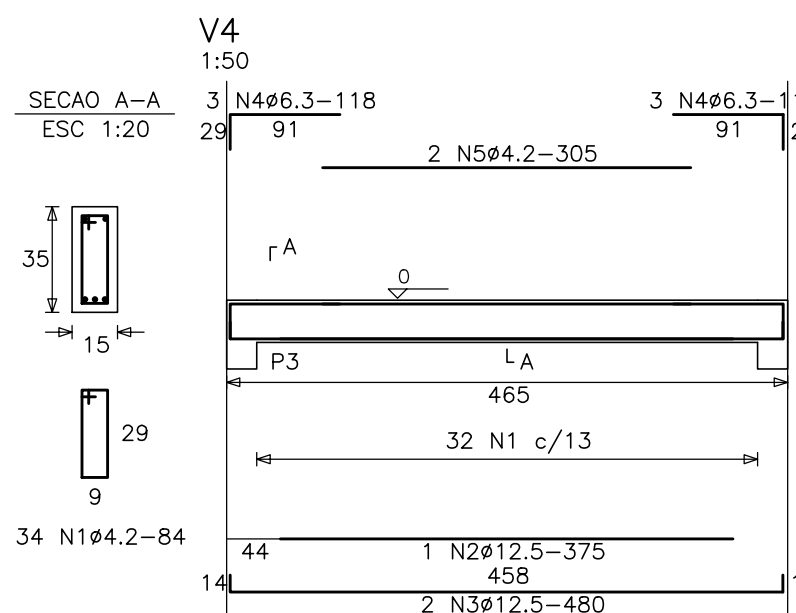
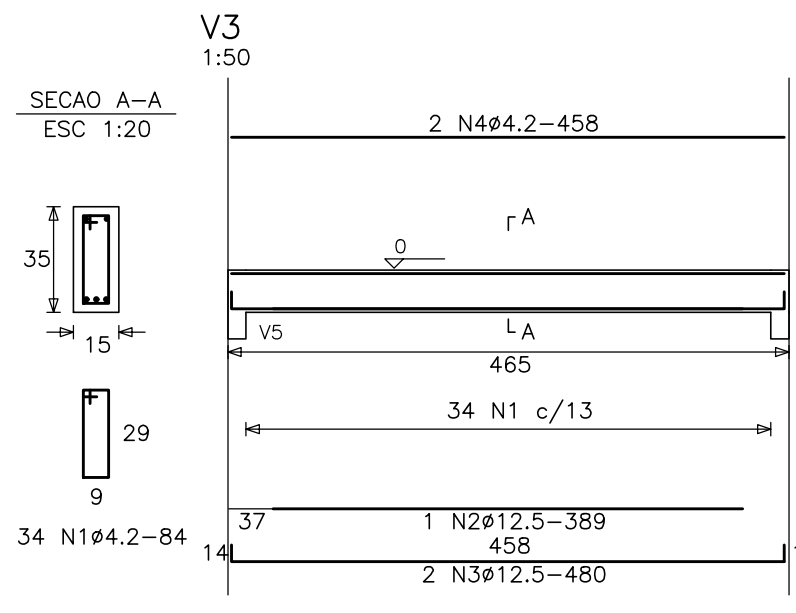
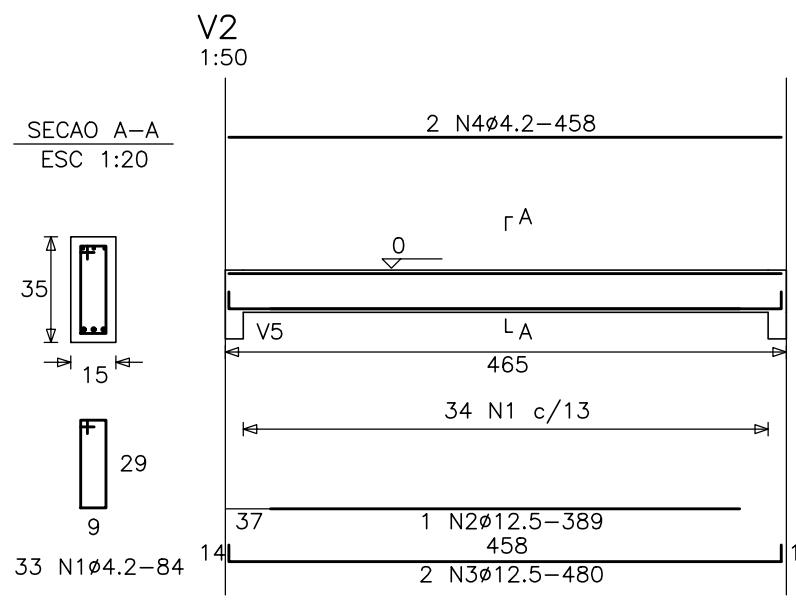
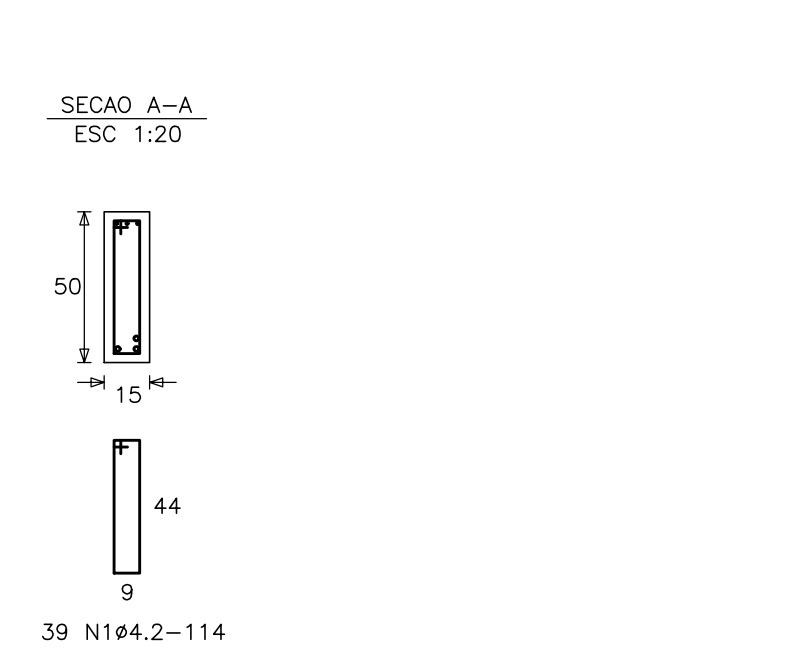
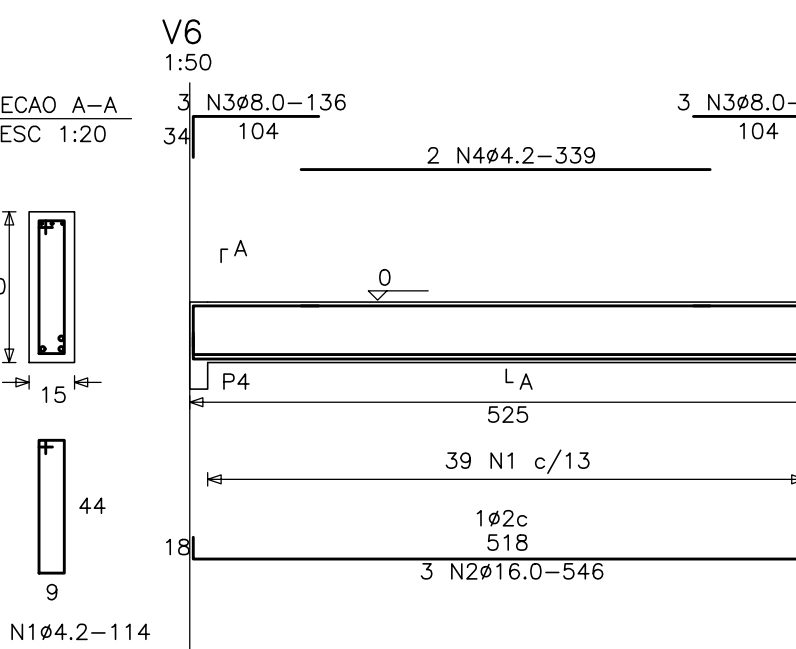
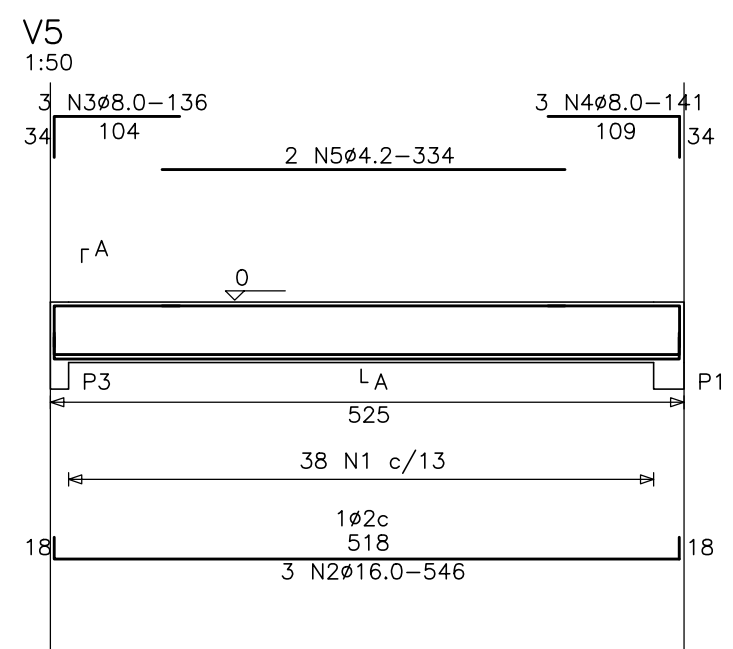


Technical drawing of a beam cross-section showing reinforcement details. The drawing includes dimensions for concrete cover (c), reinforcement diameter (d), and spacing (s). Key dimensions include: total width 314 mm, effective depth 465 mm, and reinforcement spacing 125 mm. Reinforcement is labeled as N4ø6.3-111, N5ø6.3-89, N6ø4.2-314, N2ø12.5-384, and N3ø12.5-480. A dimension line indicates a distance of 458 mm from the bottom edge to the center of the N2 reinforcement.



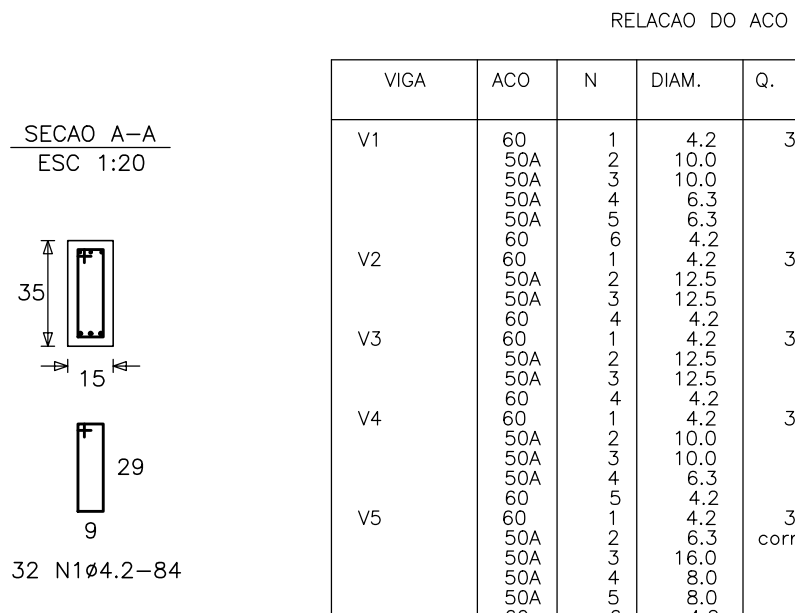
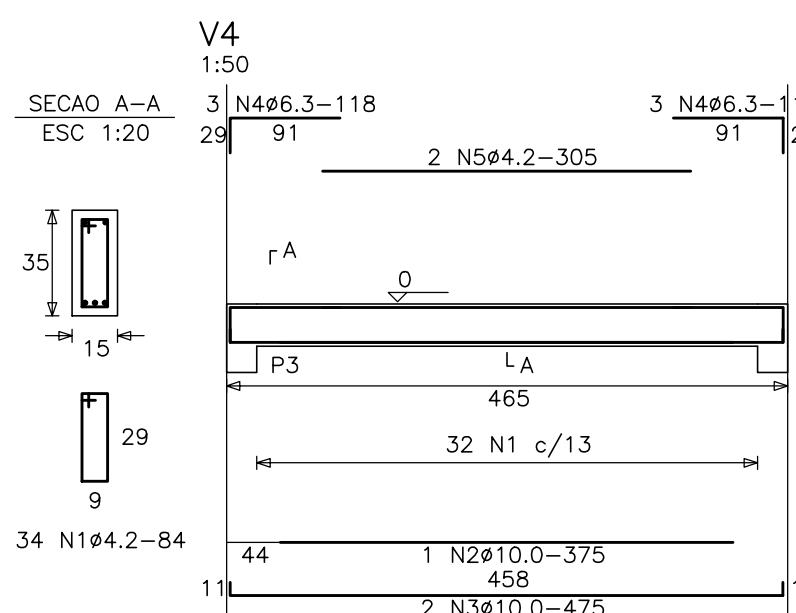
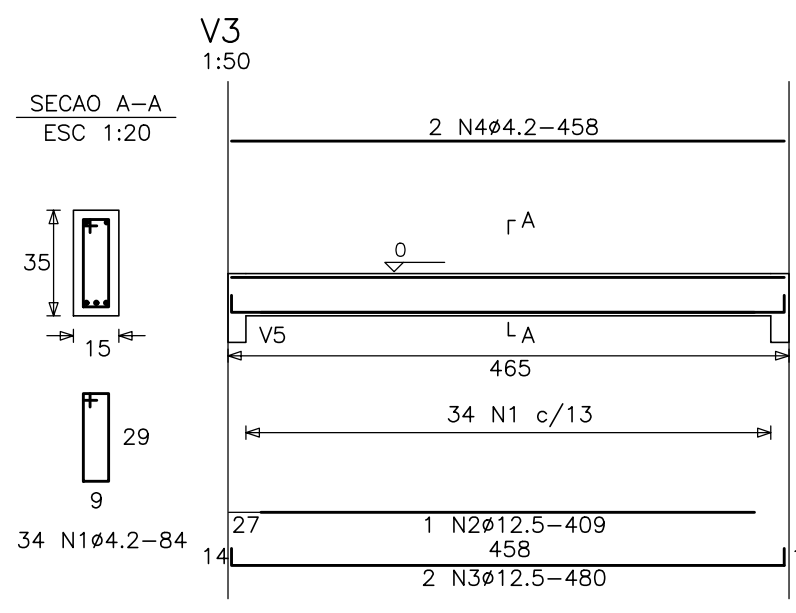
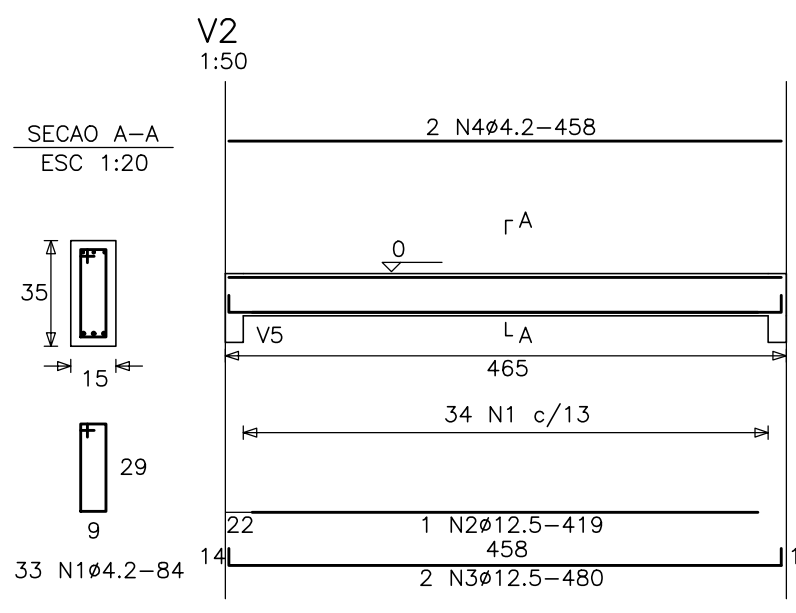
RESUMO DO AÇO				
ACO	DIAM.	C.TOTAL (m)	PESO UNIT. (kg)	PESO TOTAL (kg)
CA60	4,2	243,6	0,11	26,80
CA50A	12,5	53,7	0,963	51,71
CA50A	6,3	13,8	0,245	3,38
CA50A	16,0	32,7	1,578	51,60
CA50A	8,0	16,4	0,40	6,56
PESO TOTAL				
CA60	26,8 kg			
CA50A	113,25 kg			

Vol. concreto total = 1.76 m³
 Area de forma total = 27.88 m²



Technical drawing of a mechanical part with dimensions and labels:

- Top View:**
 - Overall width: 150
 - Left side features a hole with diameter $\varnothing 46.3$ and a distance of 29 from the left edge to its center.
 - Right side features a hole with diameter $\varnothing 66.3$ and a distance of 89 from the right edge to its center.
 - Distance between hole centers: 84
 - Overall length: 314
 - Feature: 2 N6 $\varnothing 4.2$ -314
- Front View:**
 - Overall height: 47
 - Left side features a hole with diameter $\varnothing 46.3$ and a distance of 11 from the left edge to its center.
 - Right side features a hole with diameter $\varnothing 66.3$ and a distance of 89 from the right edge to its center.
 - Distance between hole centers: 84
 - Overall length: 314
 - Feature: 2 N6 $\varnothing 4.2$ -314
- Section A-A:**
 - Section line A-A is shown with arrows pointing to the right.
 - Section A-A is a full section, indicated by the letter 'A' at both ends.
 - Section A-A is a full section, indicated by the letter 'A' at both ends.
 - Section A-A is a full section, indicated by the letter 'A' at both ends.
- Other Dimensions:**
 - Distance from left edge to center of hole $\varnothing 46.3$: 29
 - Distance from right edge to center of hole $\varnothing 66.3$: 89
 - Distance between hole centers: 84
 - Overall length: 314
 - Feature: 2 N6 $\varnothing 4.2$ -314



RESUMO DO AÇO				
ACO	DIAM.	C.TOTAL (m)	PESO UNIT. (kg)	PESO TOTAL (kg)
CA60	4,2	257,4	0,11	28,31
CA50A	10,0	26,5	0,63	16,70
CA50A	6,3	35,8	0,245	13,67
CA50A	12,5	27,4	0,963	26,39
CA50A	16,0	19,7	1,578	34,40
CA50A	8,0		0,40	7,88
PESO TOTAL				
CA60	28,31 kg			
CA50A	99,04 kg			


Vol. concreto total = 1.92 m³
 Area de forma total = 29.98 m²

NOTAS
(*) SERÃO COLOCADOS PELO MENOS TRÊS PLANOS DE ESPAÇADORES POR VÃO.
(**) SERÃO COLOCADOS ESPAÇADORES EM TODOS OS PLANOS POR VÃO.
Ø BITOLA DO FERRO ONDE ESTÁ PRESO O ESPAÇADOR.
UTILIZAR PREFERENCIALMENTE ESPAÇADORES PLÁSTICOS.
CANTOS E ELEMENTOS ESPECIAIS EXIGEM ESTUDO PARTICULAR.

TABELA 1

BITOLA	5 ϕ (mm)	2 ϕ (mm)
5,0	25	10
6,3	32	13
8,0	40	16
10,0	50	20
12,5	63	25
16,0	80	32
20,0	100	40

Detalhe típico dos ganchos



CARACTERÍSTICAS DO CONCRETO
Fck = 300 kgf/cm ²
E = 268384 kgf/cm ²
Dimensão máxima do agregado: 19 mm

N°	REVISÃO	DATA
0	EMISSION FINAL	02/2019
ENG. CIVIL EDUARDO M. FERREIRA		
CREA 5068995371-SP - ART 28027230180450508		

PLANTA CHAVE:




Desenho:	VMSSL	Data:	02/2019
Conferido:	EMF	Data:	02/2019
Aprovado:	EMF	Data:	02/2019

DES Nº: 01718-DE-EEE-ES-008

Projeto:
VMSSL/EMF

Escala:
IND.

Data:
25/02/2019

	MUNICÍPIO DE JACAREÍ/SP
	SAAE - Serviço Autônomo de
Água e Esgoto	

PROJETO EXECUTIVO - ESTÂNCIA PORTO VELHO
CASA DO GERADOR - ESTRUTURAL
VIGAS TÉRREO E COBERTURA

Revisão: 0 Folha N°: 1/1

REFERÊNCIAS:

PROJETO EXECUTIVO – ESTÂNCIA PORTO VELHO – CASA DO GERADOR – ESTRUTURAL
 ARMAÇÃO, PILARES, BLOCOS E RESUMO GERAL – DES Nº: 01718-DE-EEE-ES-07

NOTAS:

- 1 - DIMENSÕES EM CENTÍMETRO E ELEVAÇÕES EM METRO.
2 - PARA NOTAS GERAIS E ESPECIFICAÇÕES VER DES. 01718-DE-EEE-ES-07.