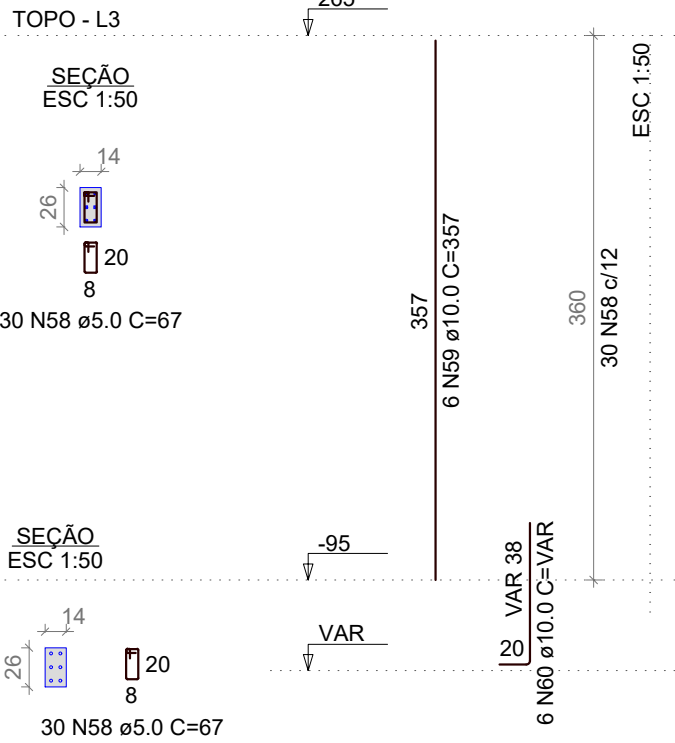
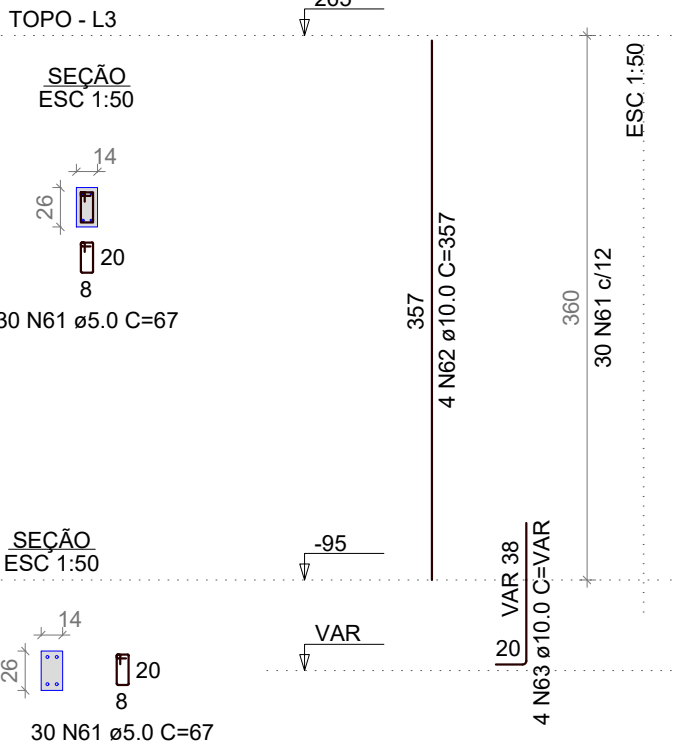


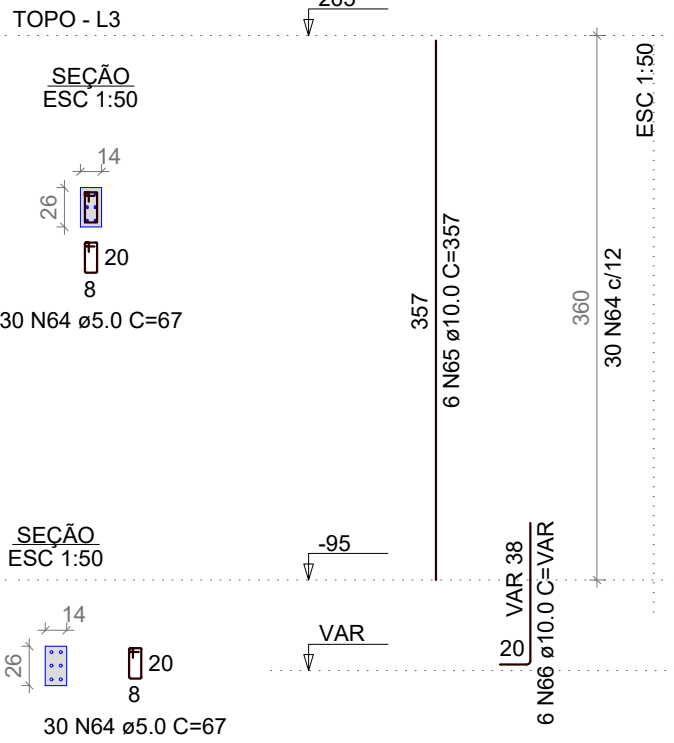
P17



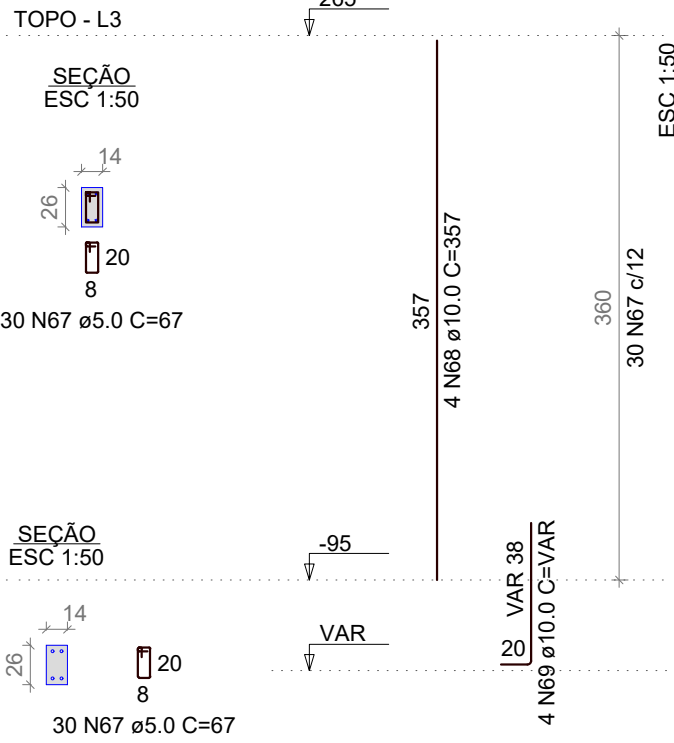
P18



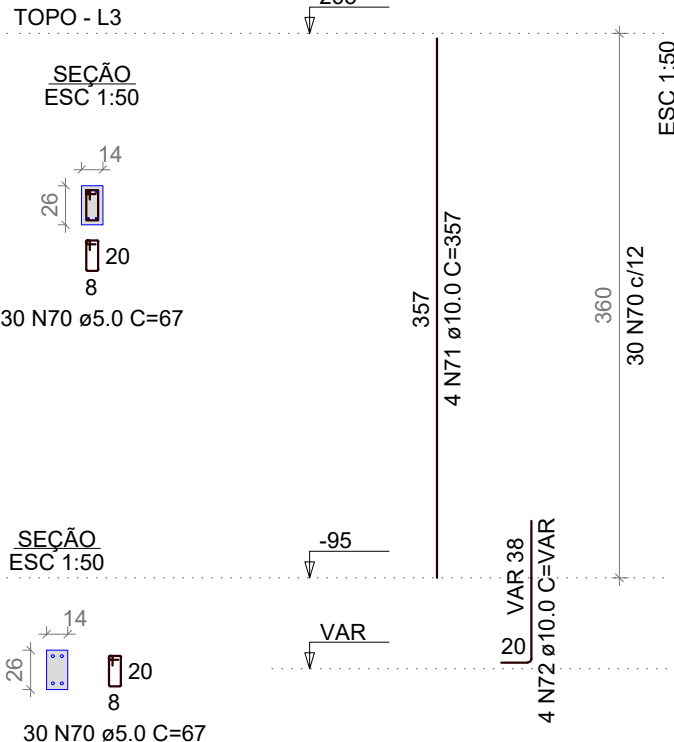
P19



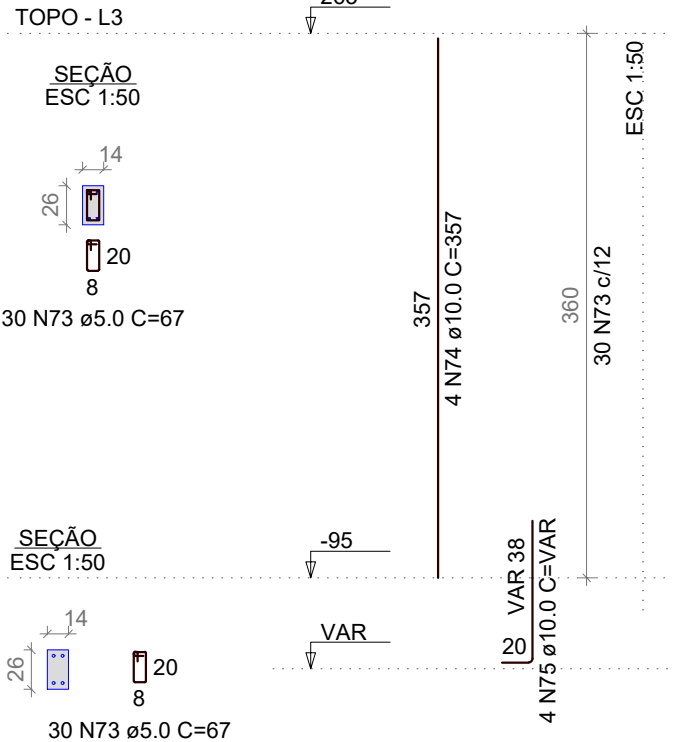
P20



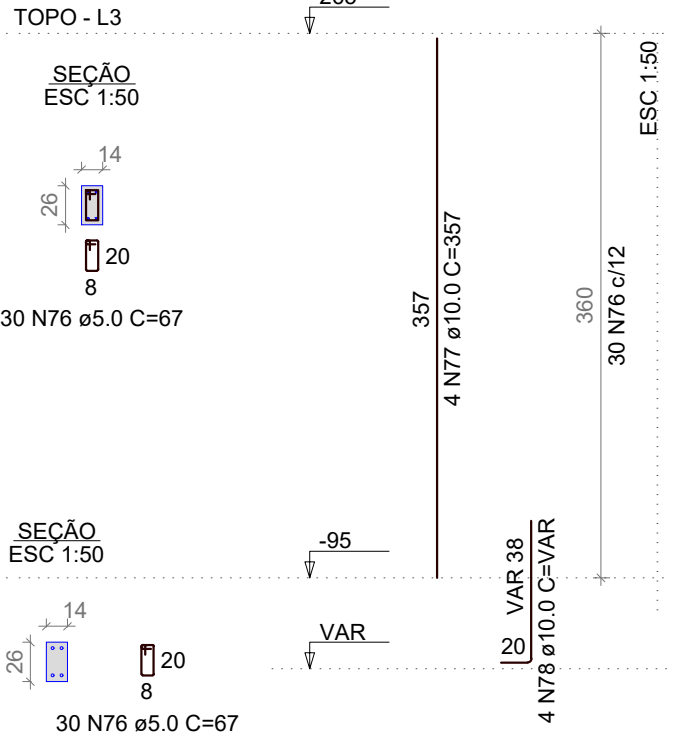
P21



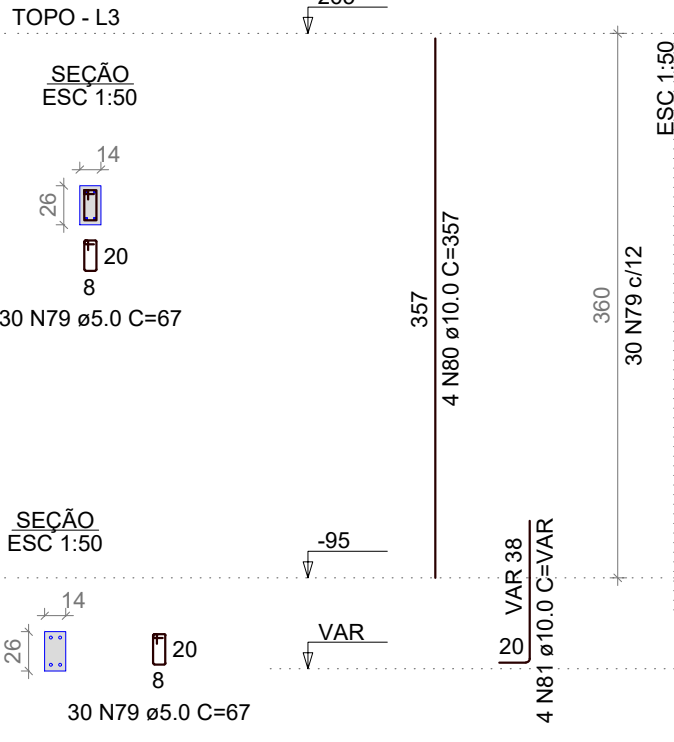
P22



P23



P24



RESUMO DO AÇO - TODOS PILARES

AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 10% (Barras)	UNIT	PESO + 10% (kg)
CA50	10.0	309.7	29	12 m	210
	12.5	145	14	12 m	153.6
CA60	5.0	464.5	43	12 m	78.7
PESO TOTAL (kg)		Volume de concreto (C-25) = 3.04 m³			
		Área de forma = 66.18 m²			
CA50	363.7				
CA60	78.7				

PILARES DE PRUMADA



**CERTA**  
Consultoria Técnica e Engenharia

Jayme Rodrigues Macedo  
Engenheiro Civil  
Responsável técnico  
(47) 99242-3022  
certacte@gmail.com

Proprietário:  
**ALEXANDRE HENRIQUE SCHOLL**  
Endereço:  
Rua Henrique Michels  
Velha/Blumenau/SC