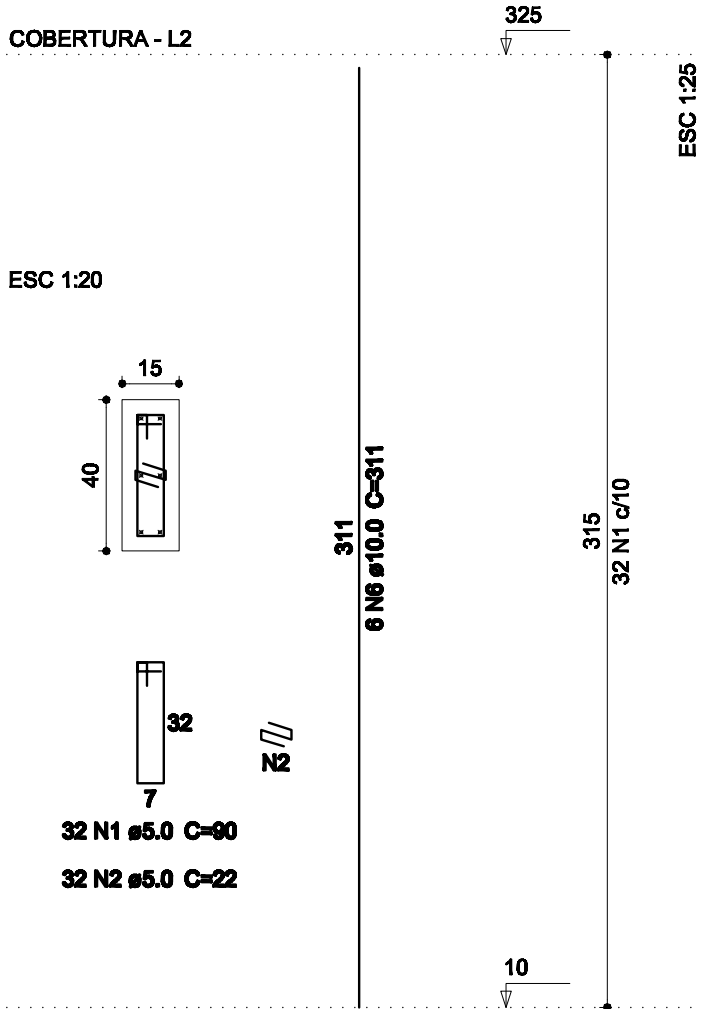
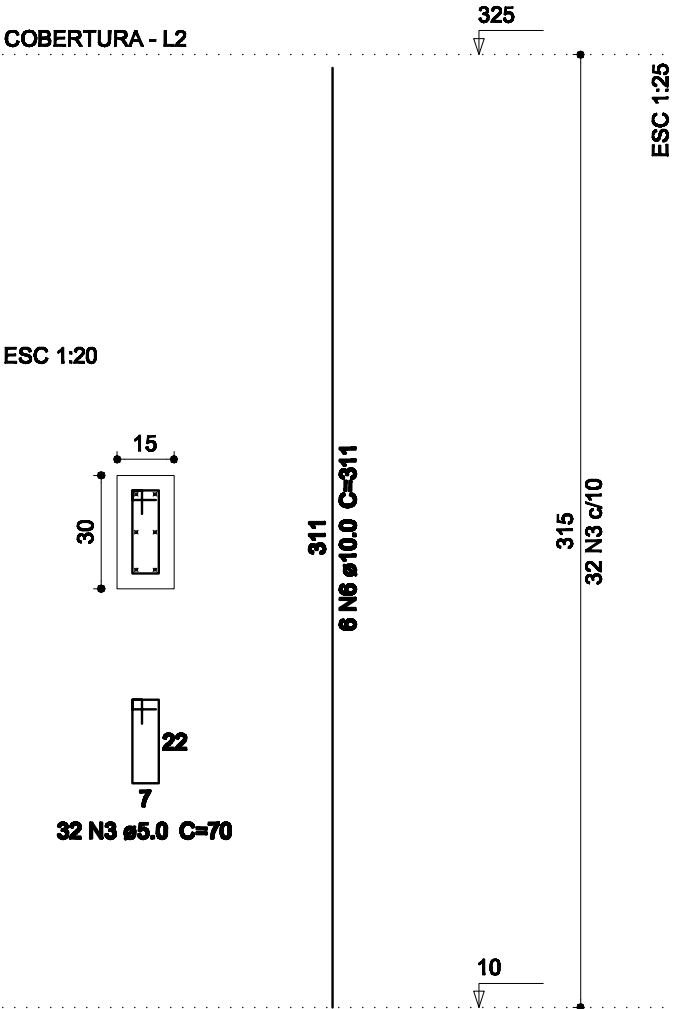


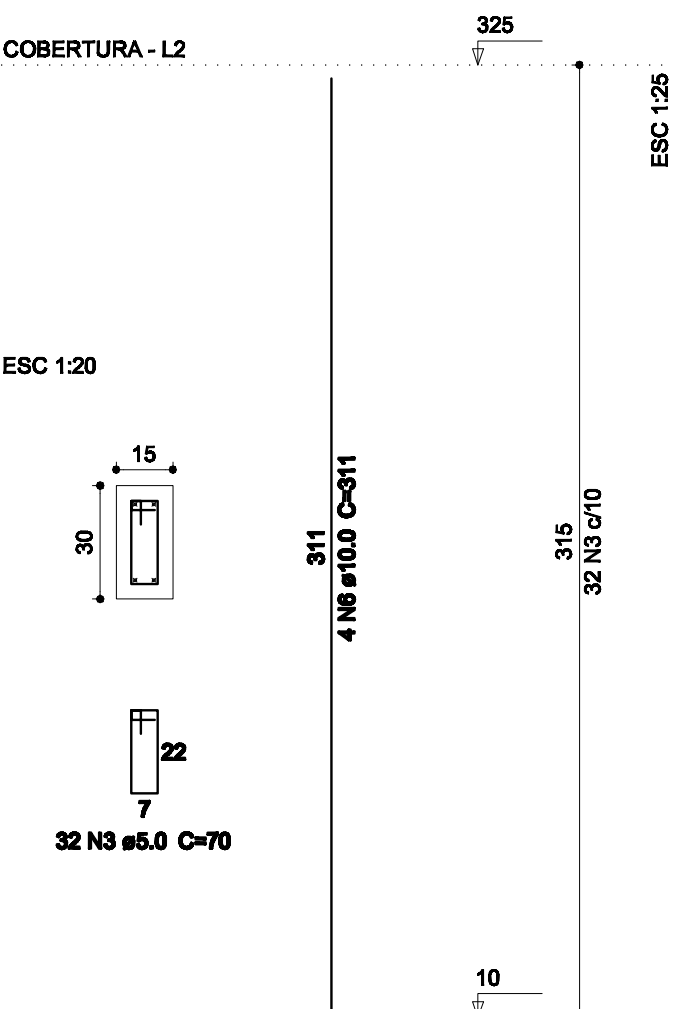
P1



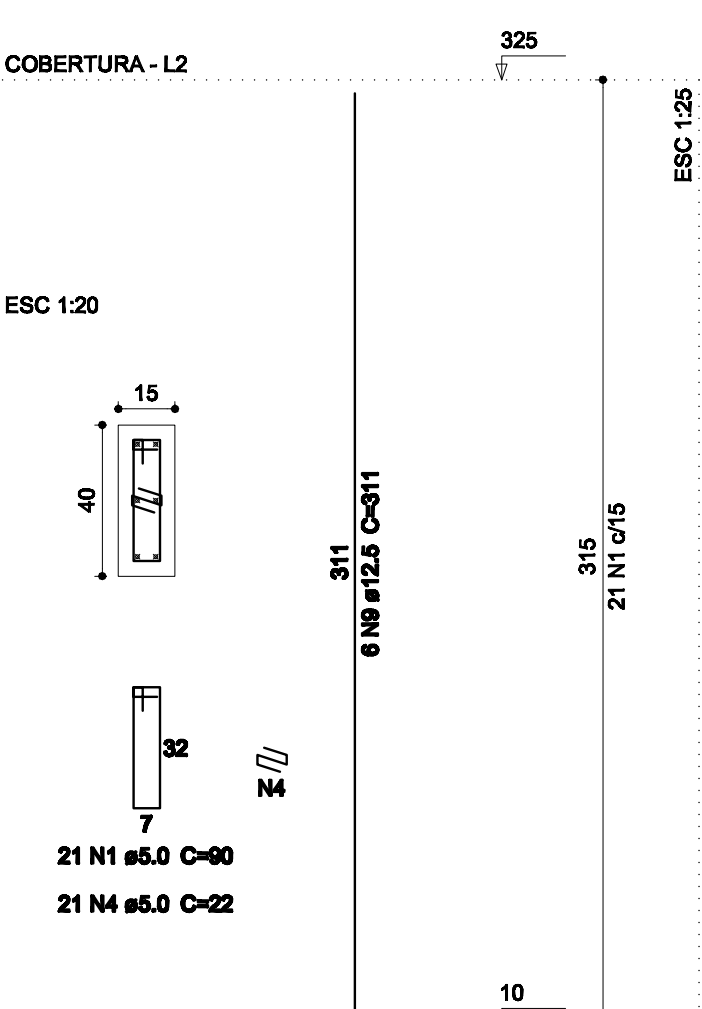
P19=P21



P2=P3=P7=P8=P9=P11=P12=P13=P14=P15=P16
=P17=P18=P20=P22=P23=P24



P4



Relação do aço

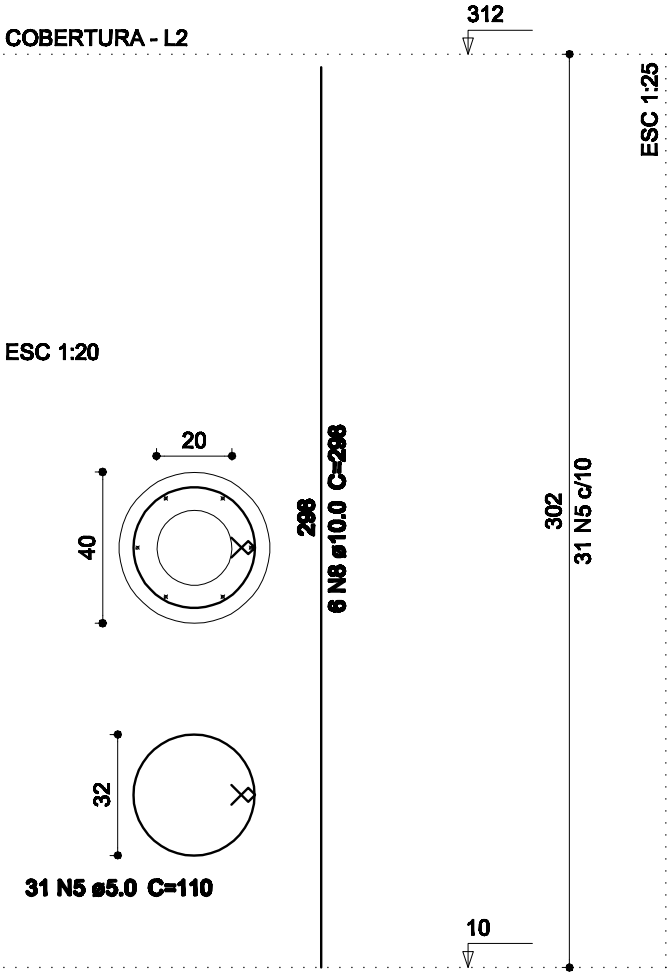
AÇO	N	DIAM	Q	UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	53	90	4770
	2	5.0	32	22	704
	3	5.0	608	70	42560
	4	5.0	21	22	462
	5	5.0	89	110	9790
CA50	6	10.0	86	311	26746
	7	10.0	12	281	3372
	8	10.0	6	298	1788
	9	12.5	6	311	1866

Resumo do aço

AÇO	DIAM	C.TOTAL (m)	PESO + 10 % (kg)
CA50	10.0	319.1	216.4
CA60	5.0	582.9	19.8
PESO TOTAL			
CA50	236.2		
CA60	98.8		

Vol. de concreto total (C-30) = 3.89 m³
Área de forma total = 71.75 m²

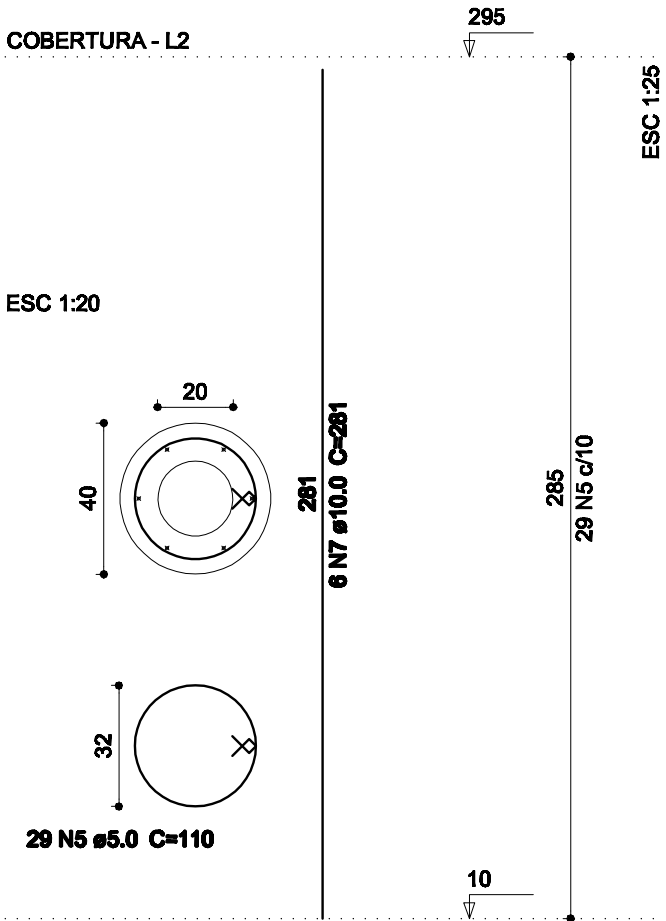
P6



Características dos materiais

Elemento	fck (kgf/cm²)	Ecs (kgf/cm²)	Abatimento (mm)
Vigas	300	260716	80
Pilares	300	260716	80
Lajes	300	260716	80
Sapatas/blocos	200	212874	80

P5=P10



NOME DO PROJETO : CENTRO DE REFERENCIA DE ASSISTÊNCIA SOCIAL			REF.:
LOCAL: PASSO DE TORRES/SC			
TIPO DE PROJETO: ESTRUTURAL			3024 - 03
CARACTERÍSTICAS: PROJETO PADRÃO - CRAS			11
ARMADURA DOS PILARES			
PAVIMENTO: COBERTURA			
AUTOR DO PROJETO: ENG. CIVIL ROBERTO DANIEL GEVAERD CREA/SC 041750-9			
AVALIUS ENGENHARIA E AVALIAÇÕES LTDA			
ÁREA: 169,06 m²	ESCALA: INDICADA	DATA: OUTUBRO/2018	DES. EDVÂNIO PACHECO