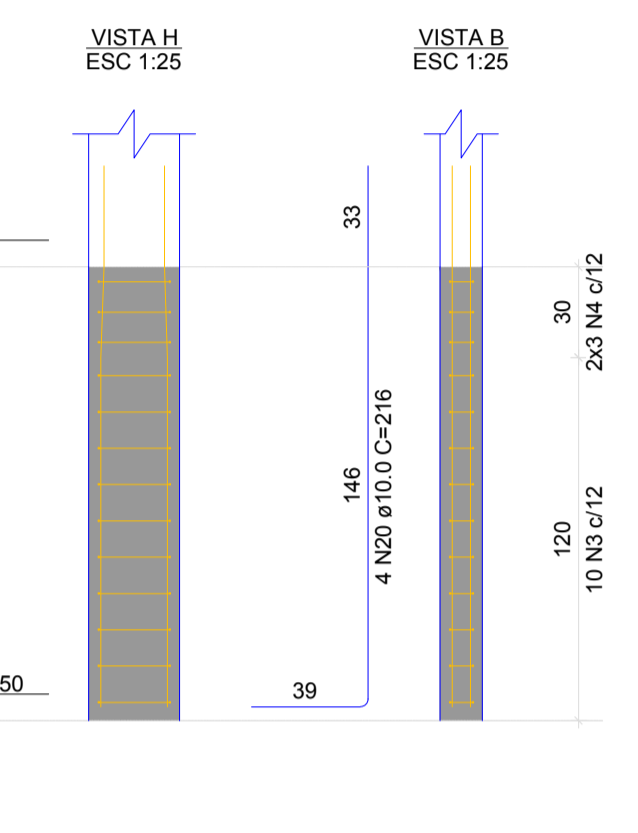
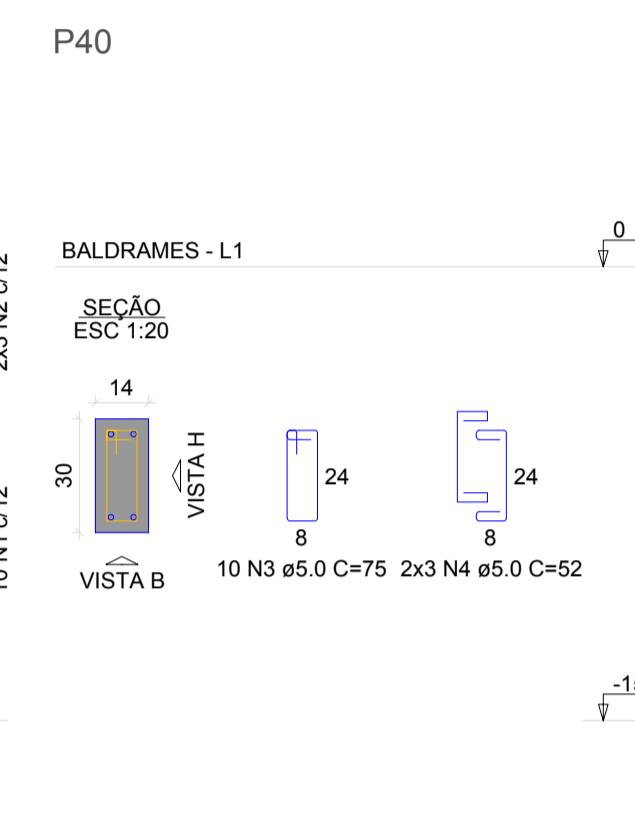
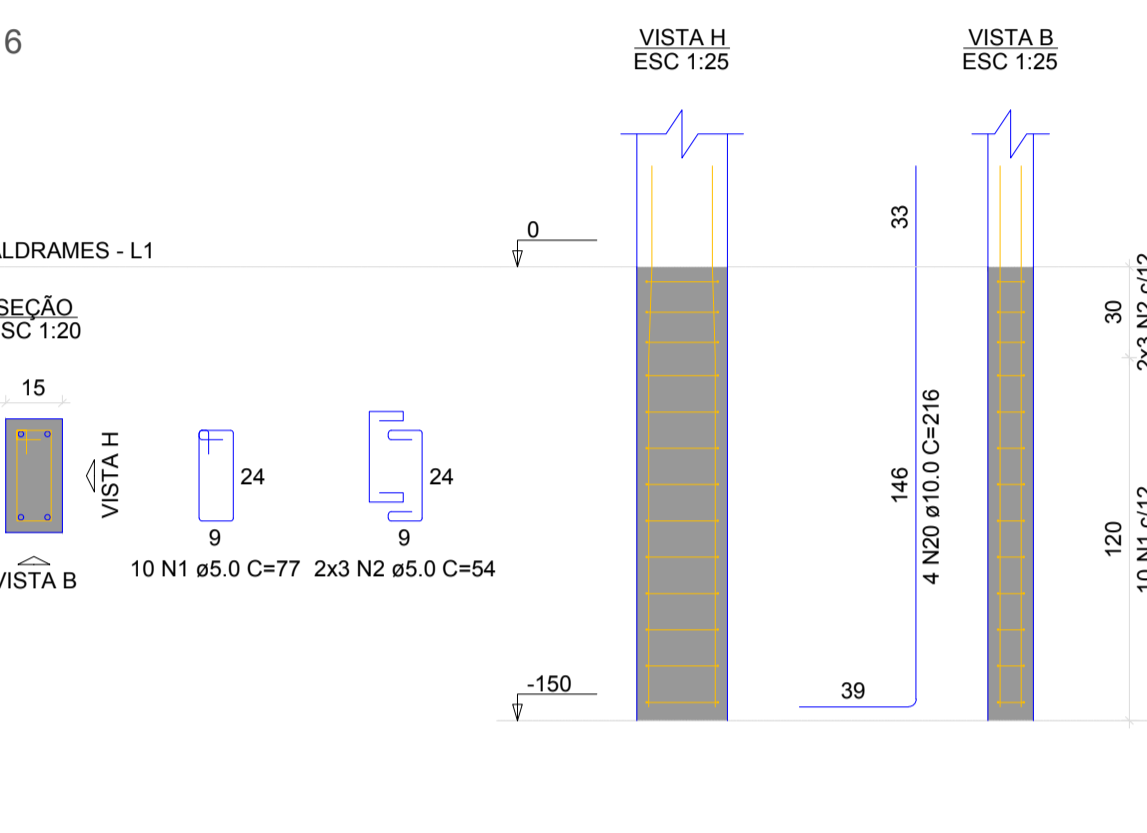
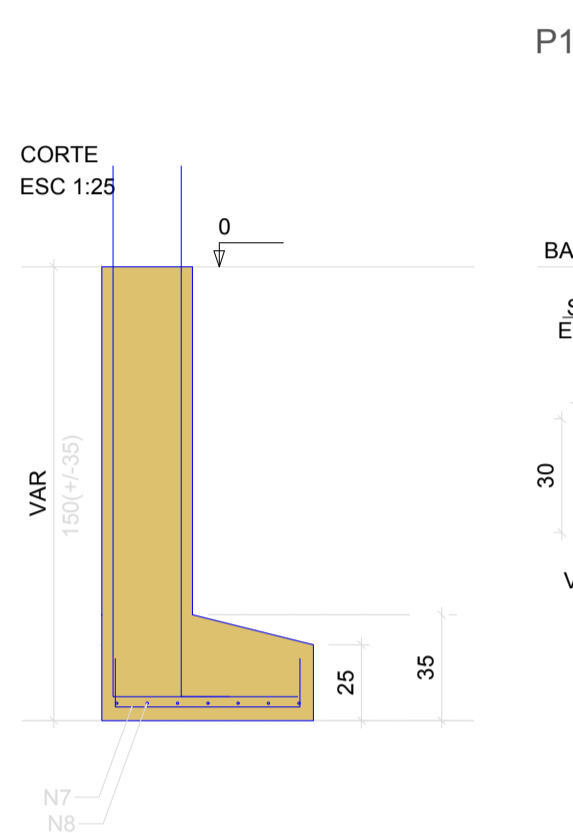
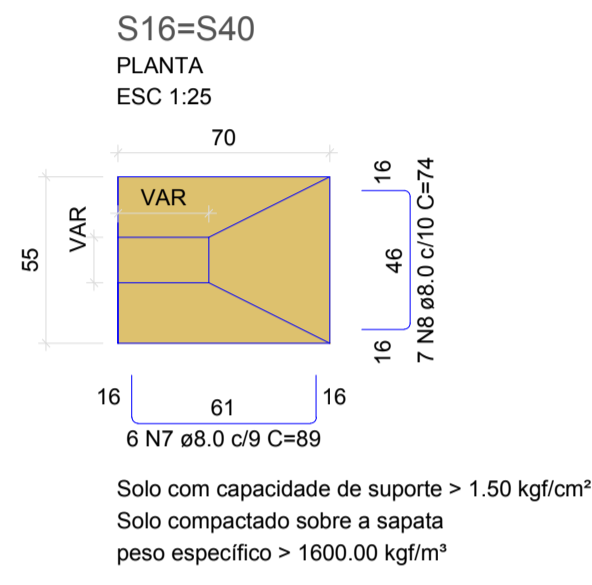


RELAÇÃO DO AÇO

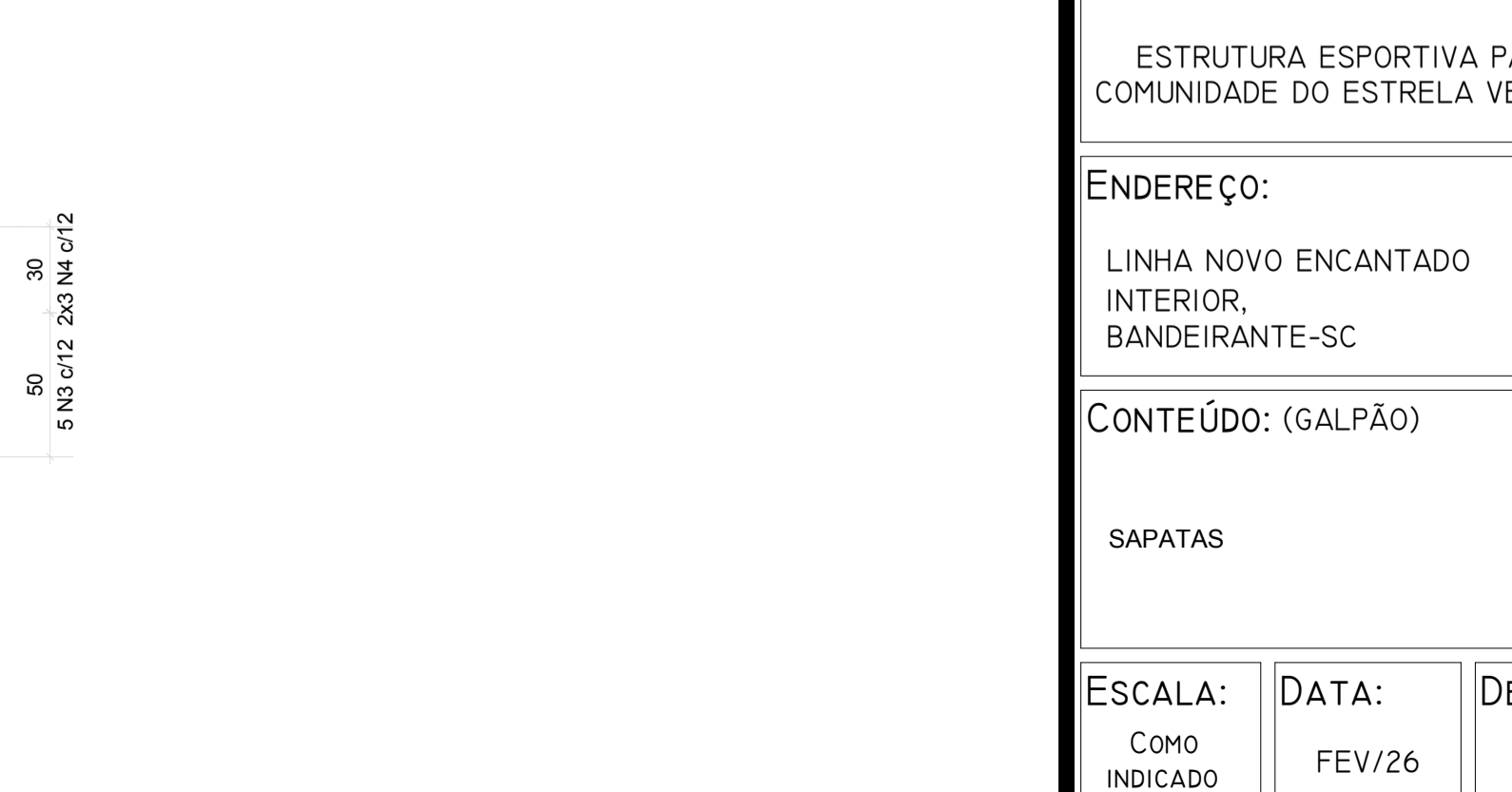
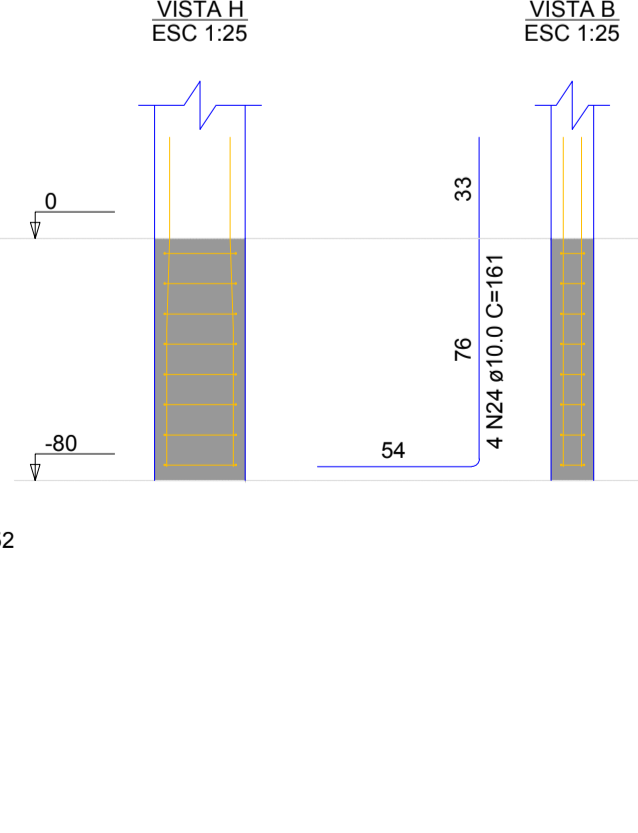
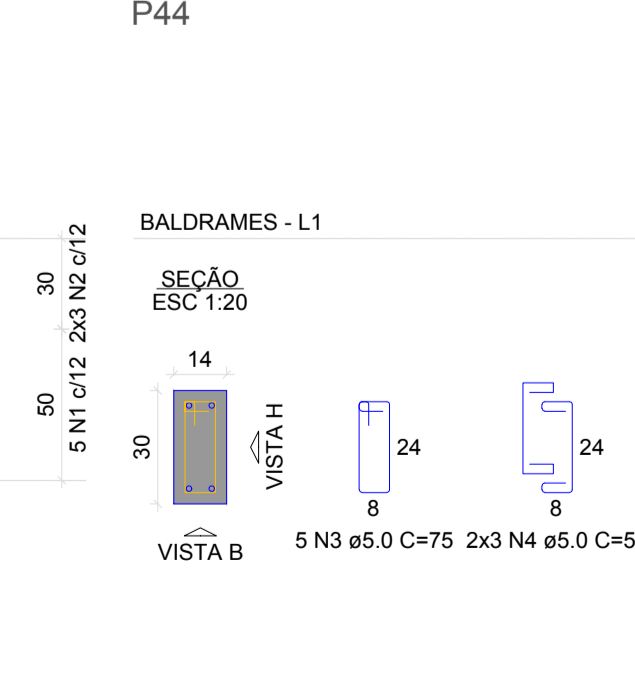
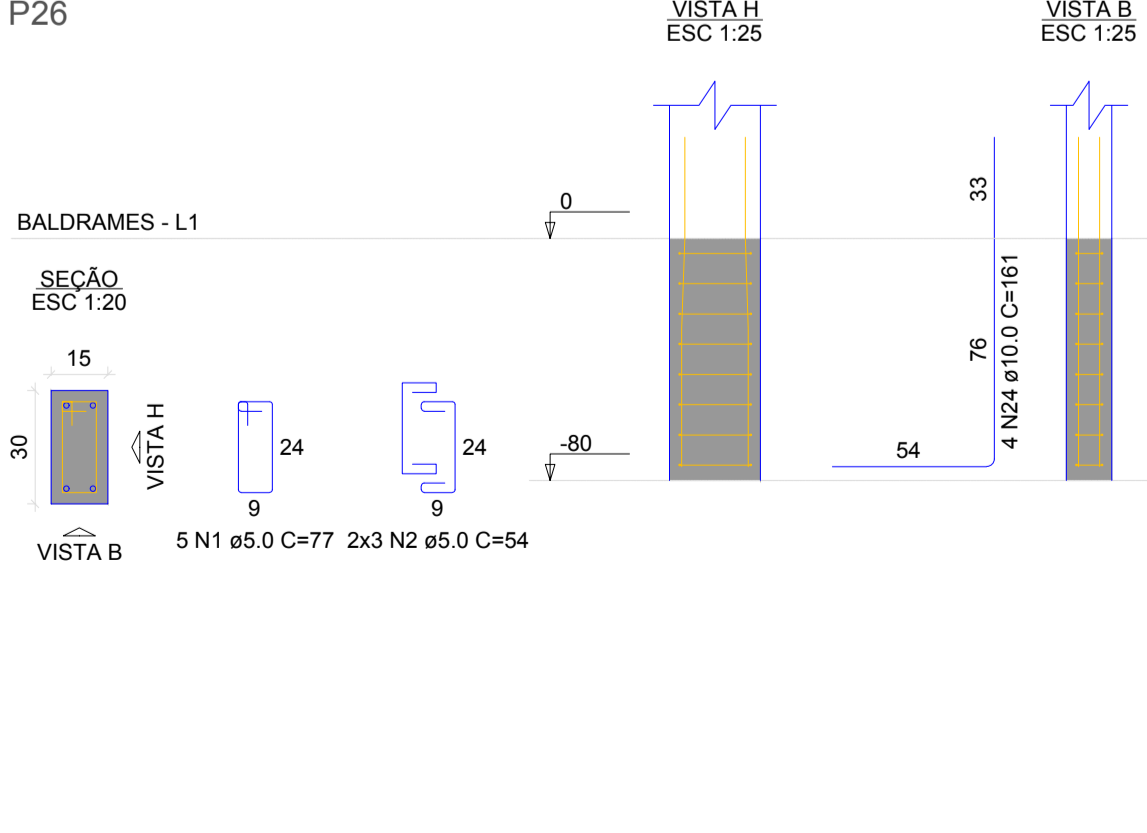
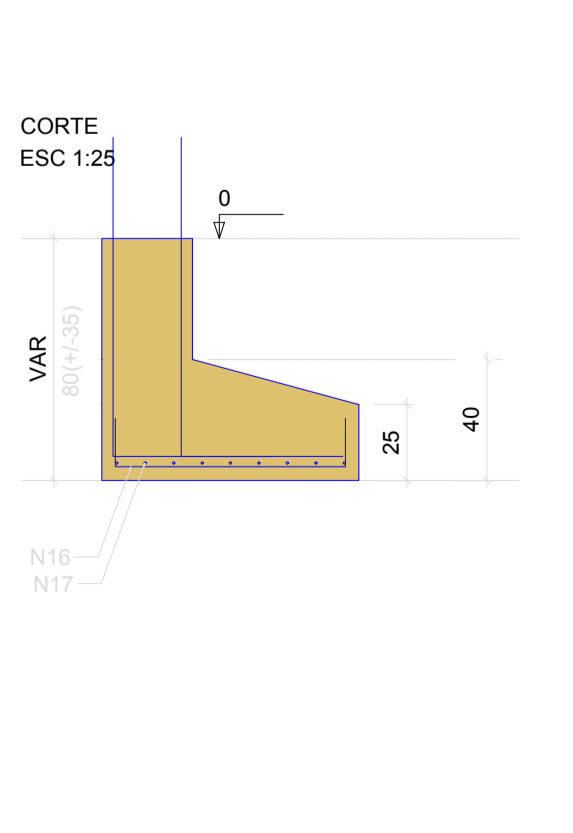
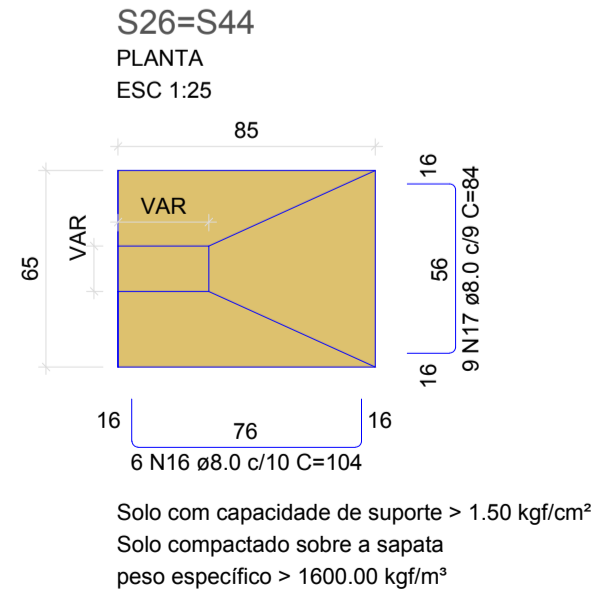
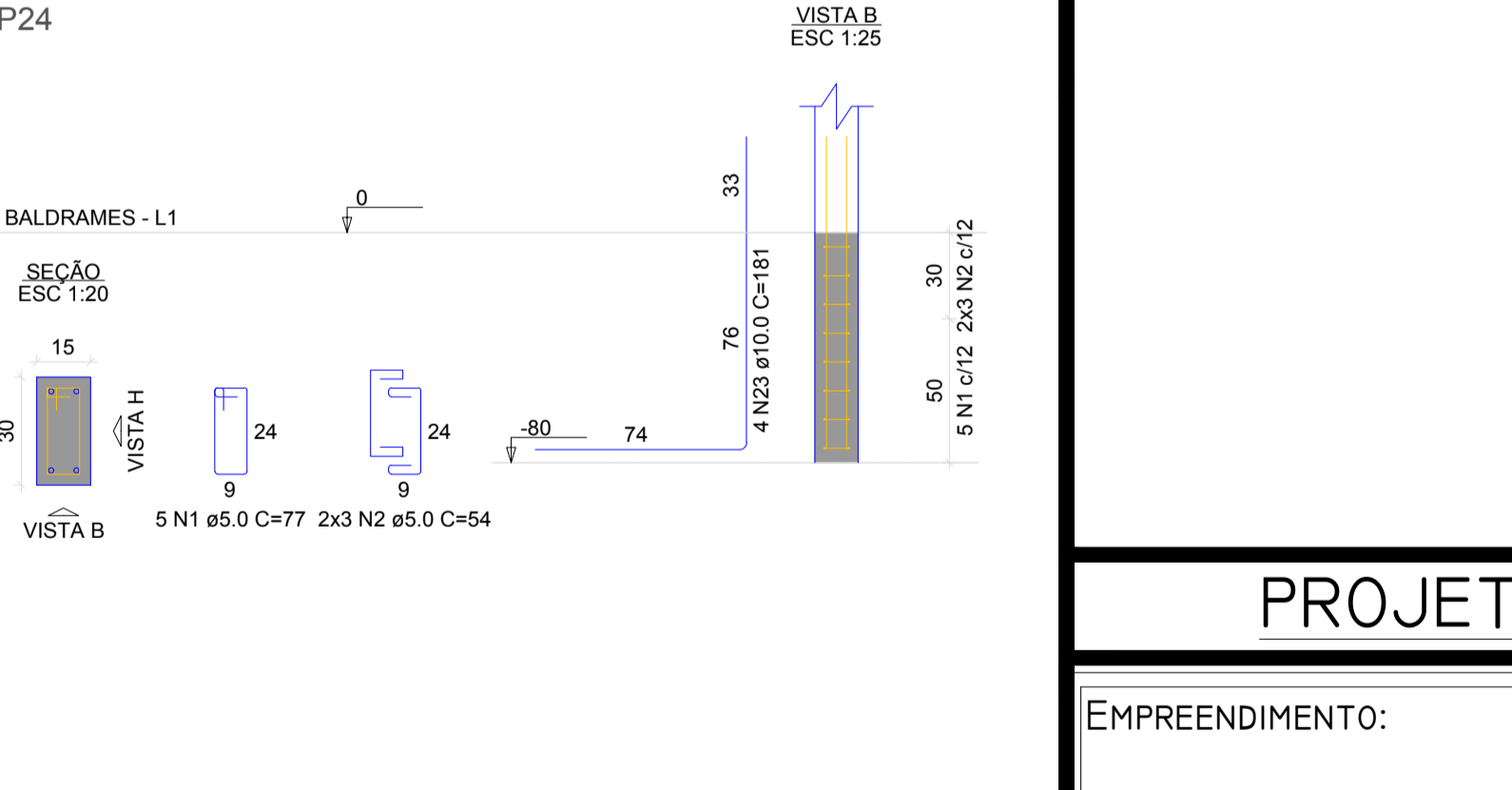
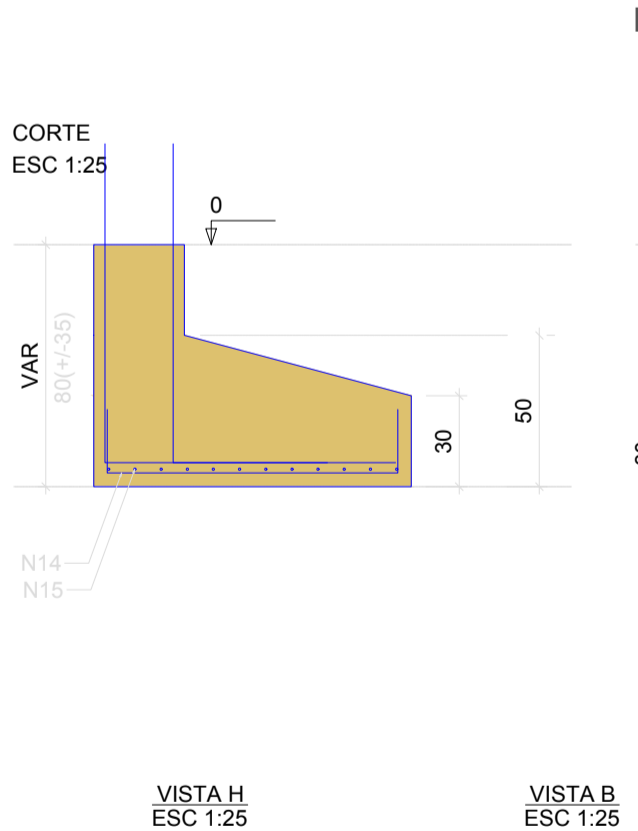
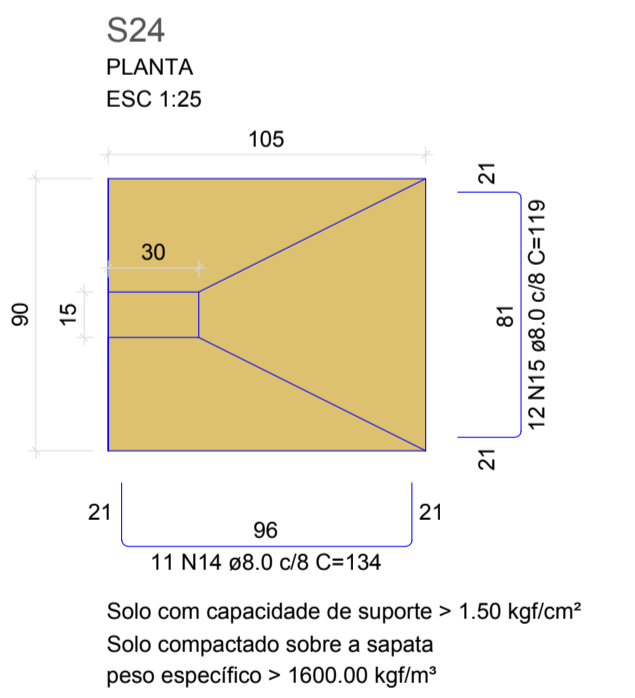
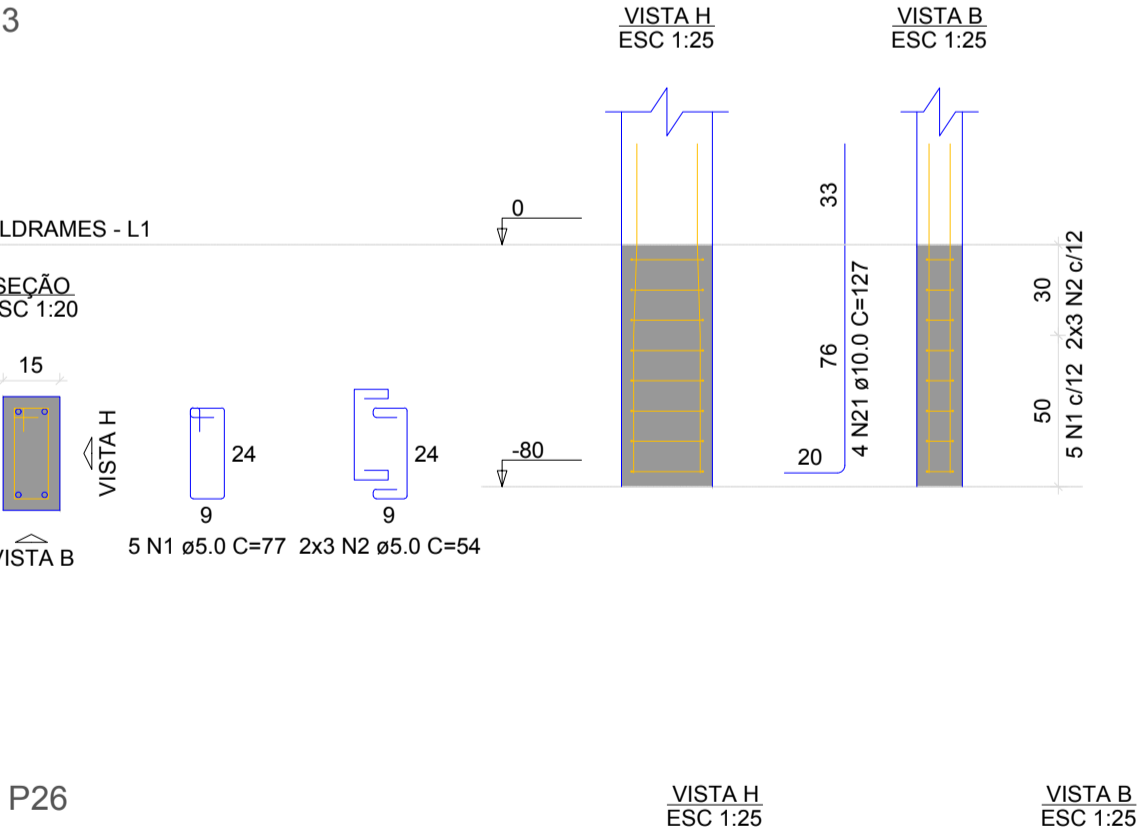
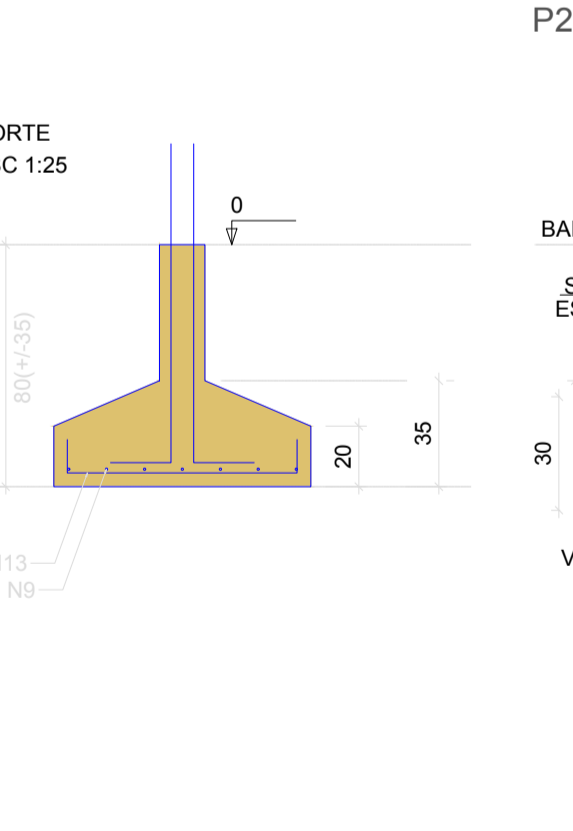
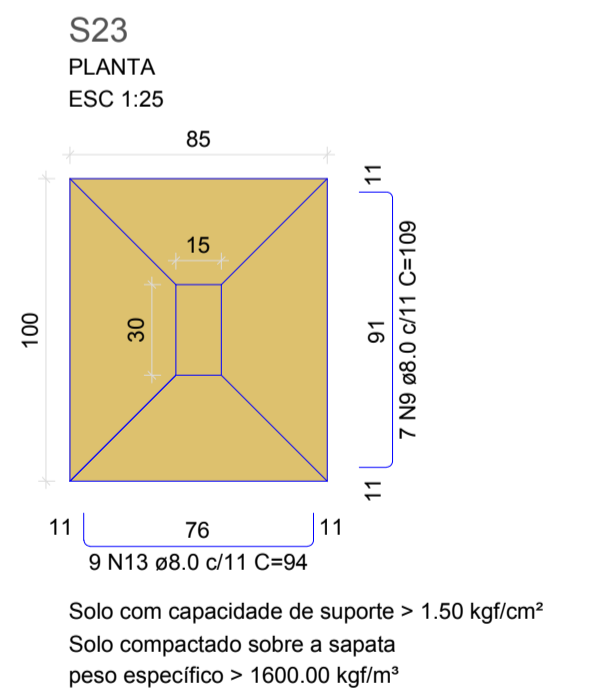
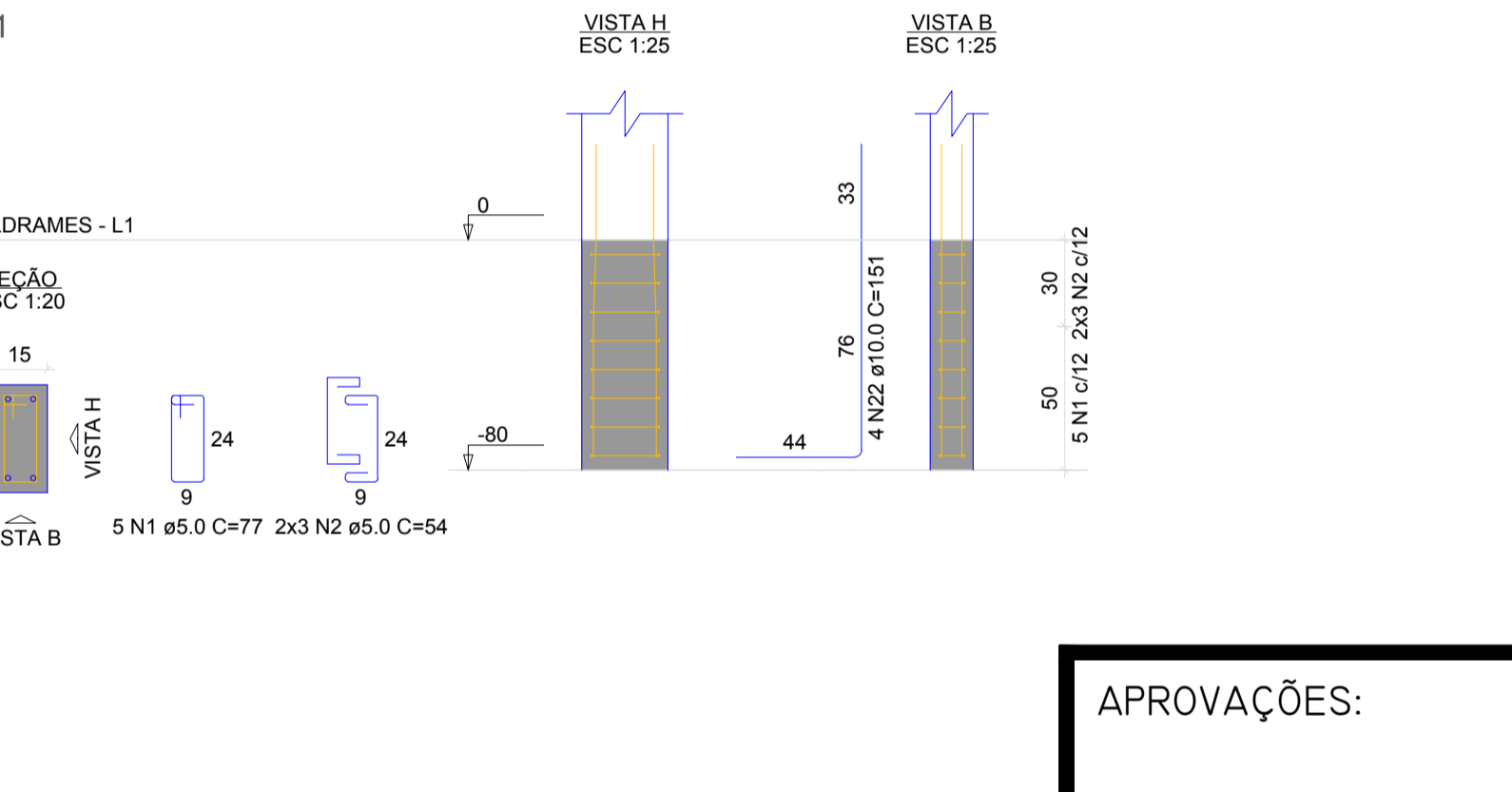
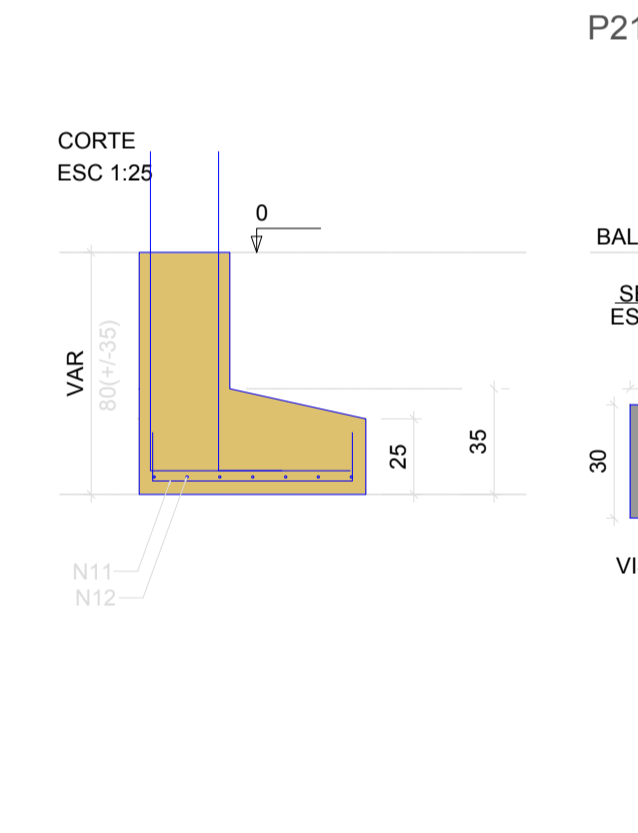
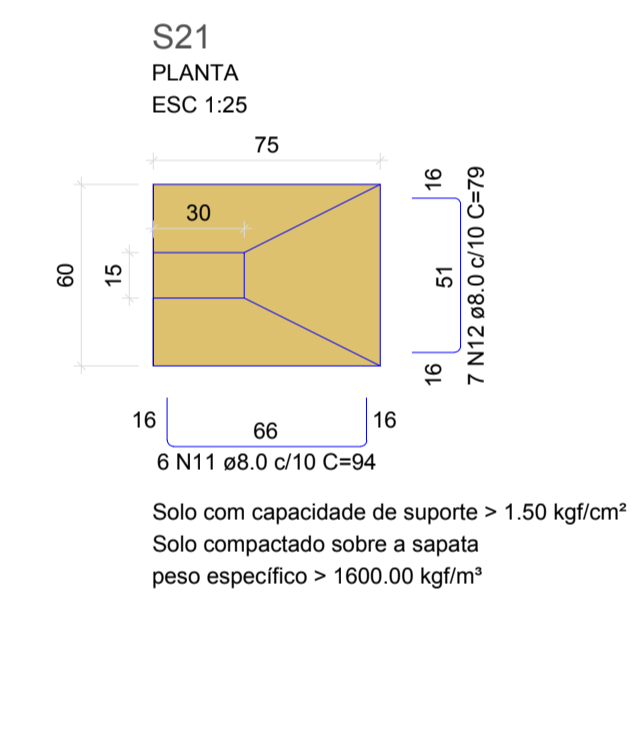
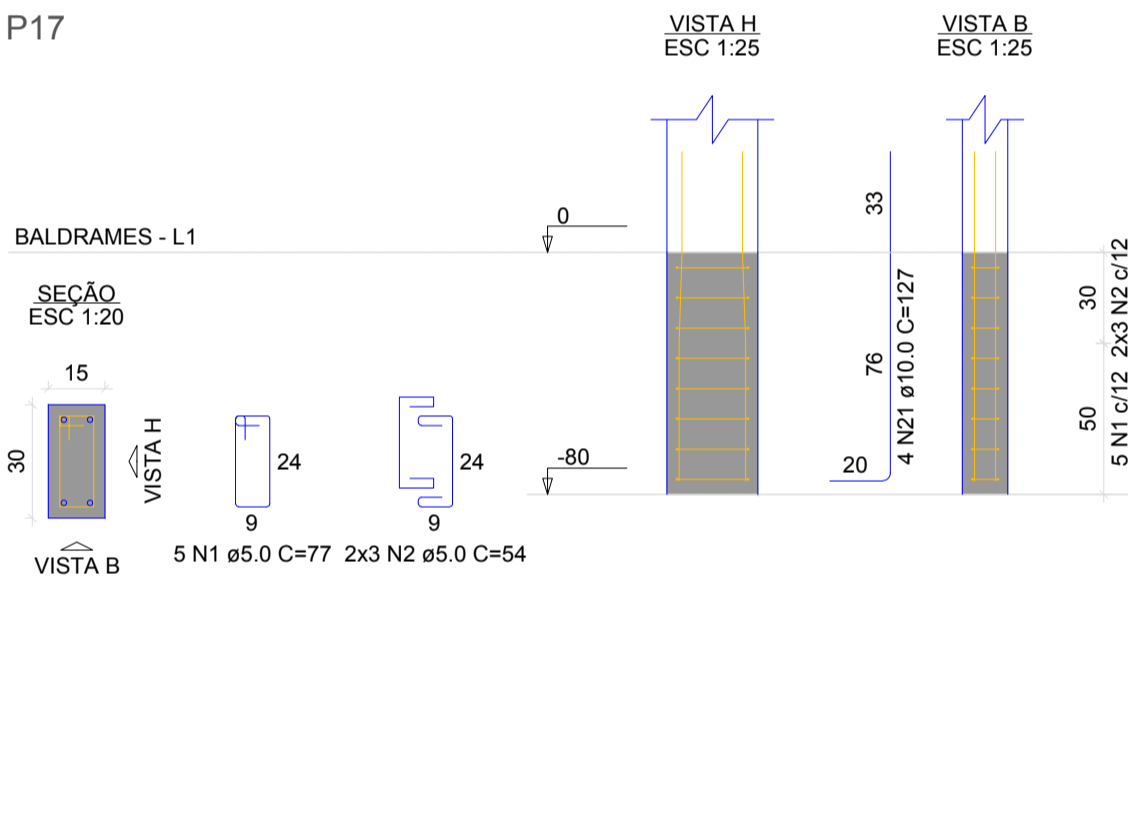
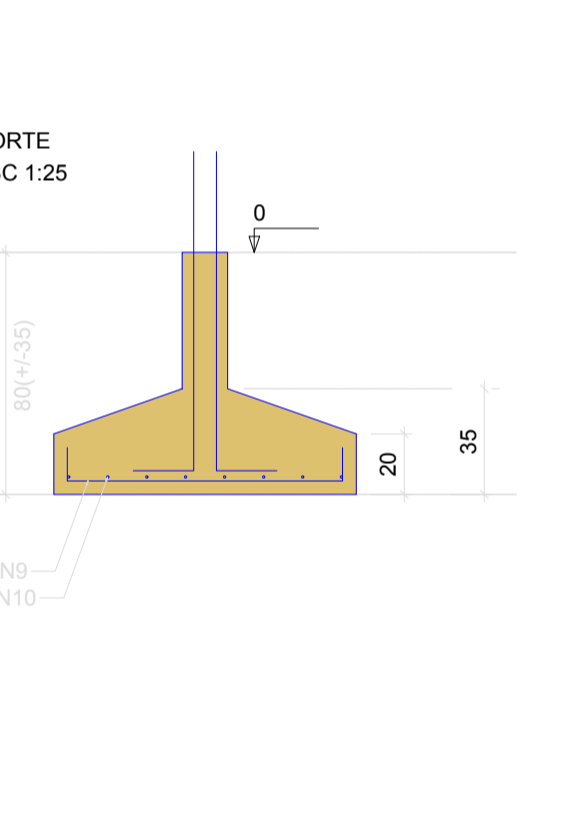
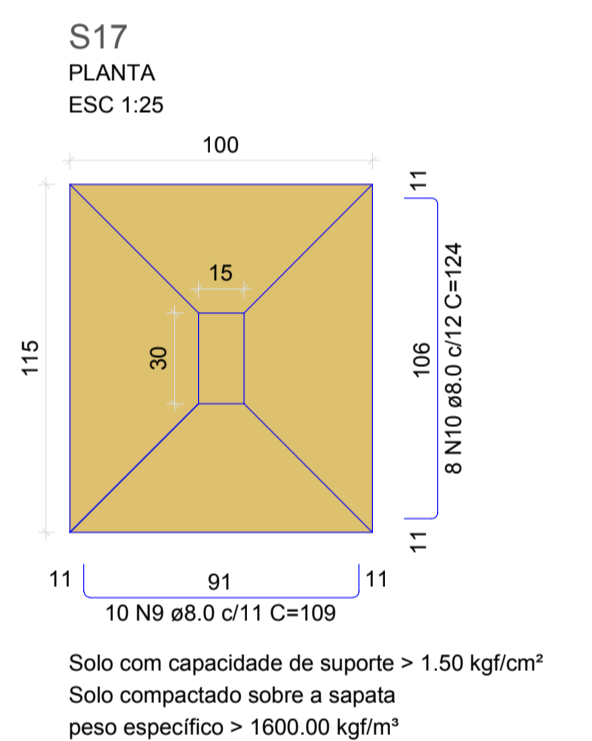
AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	50	77	3850
	2	5.0	48	54	2592
	3	5.0	15	75	1125
	4	5.0	12	52	624
	5	8.0	8	124	992
	6	8.0	11	104	1144
	7	8.0	12	89	1068
	8	8.0	14	74	1036
	9	8.0	17	109	1853
	10	8.0	8	124	992
	11	8.0	6	94	564
	12	8.0	7	79	553
	13	8.0	9	94	846
	14	8.0	11	134	1474
	15	8.0	12	119	1428
	16	8.0	12	104	1248
	17	8.0	18	84	1512
	18	10.0	4	241	964
	19	10.0	4	191	764
	20	10.0	8	216	1728
	21	10.0	8	127	1016
	22	10.0	4	151	604
	23	10.0	4	181	724
	24	10.0	6	161	1288
	25	10.0	9	163	1467
	26	10.0	11	143	1573



RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	8.0	147.1	63.8
CA60	5.0	81.9	13.9
PESO TOTAL (kg)			
CA50		132.5	
CA60		13.9	

Volume de concreto (C-30) = 2.66 m³
Área de forma = 15.11 m²



APROVAÇÕES:

PROJETO ESTRUTURAL

EMPREENDIMENTO: ESTRUTURA ESPORTIVA PARA A COMUNIDADE DO ESTRELA VERMELHA

PROPRIETÁRIO: MUNICÍPIO DE BANDEIRANTE/SC
CNPJ: 01.612.528/0001-84

ENDEREÇO: LINHA NOVO ENCANTADO INTERIOR, BANDEIRANTE-SC

RESP. TÉCNICO: GIOVANE MIGUEL KUHN
CREA-SC 186.990-8

CONTEÚDO: (GALPÃO)

SAPATAS

FOLHA **EST 109**

ESCALA: COMO INDICADO | DATA: FEV/26 | DESENHO: GIOVANE KUHN