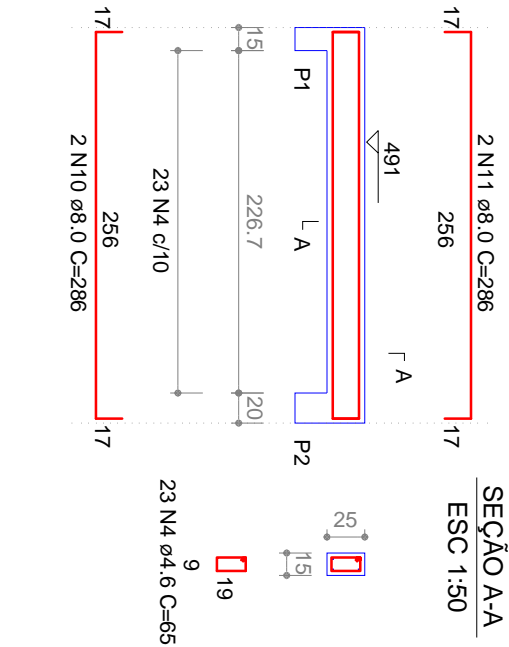
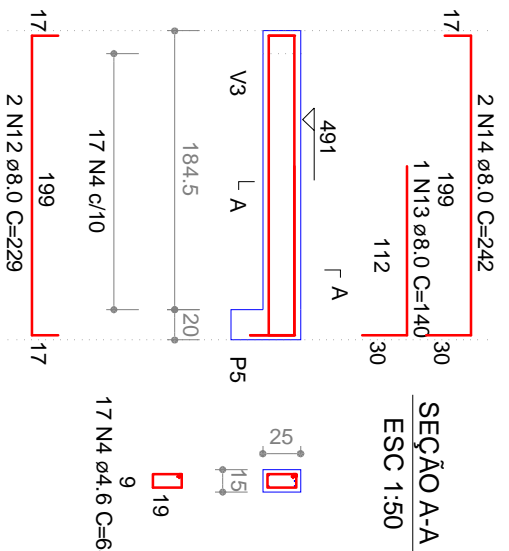


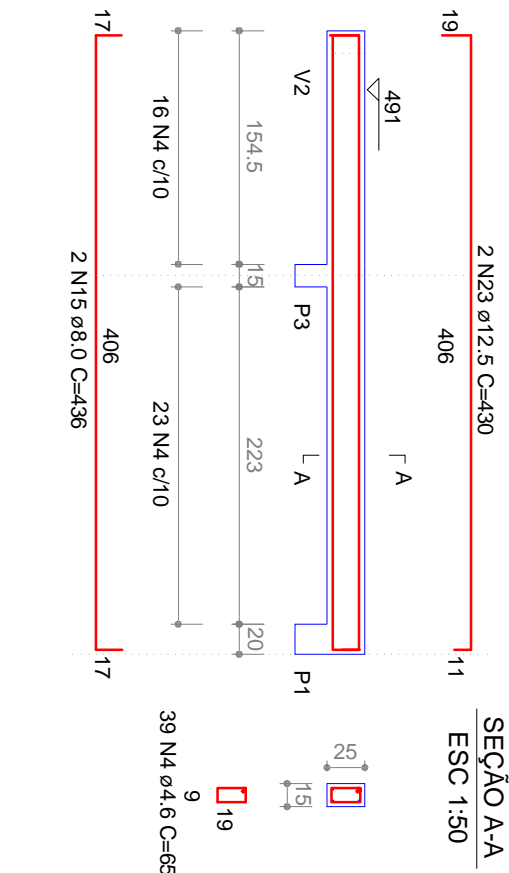
V1 (15 x 25)



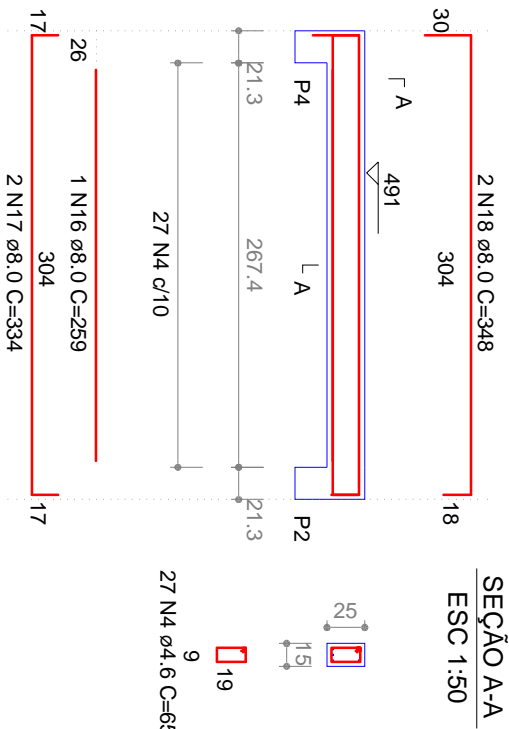
V2 (15 x 25)



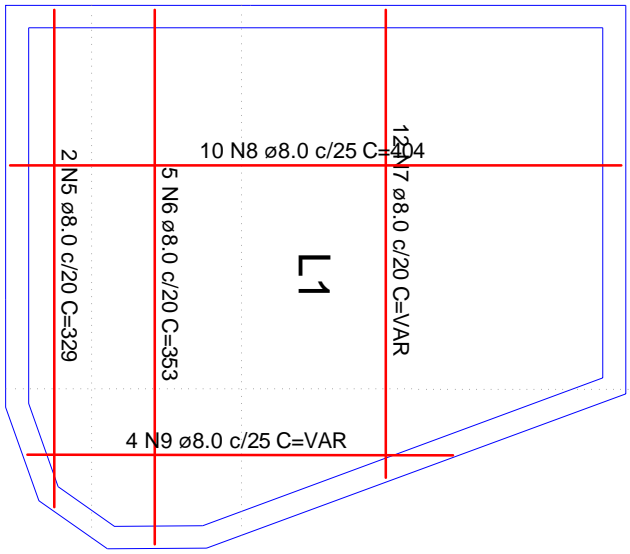
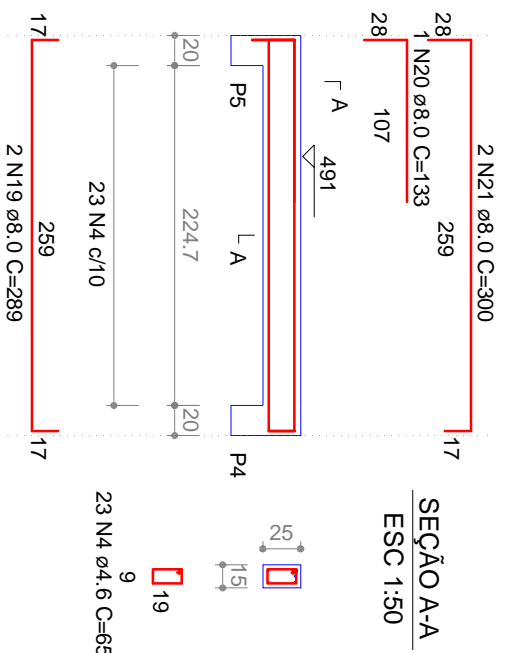
V3 (15 x 25)



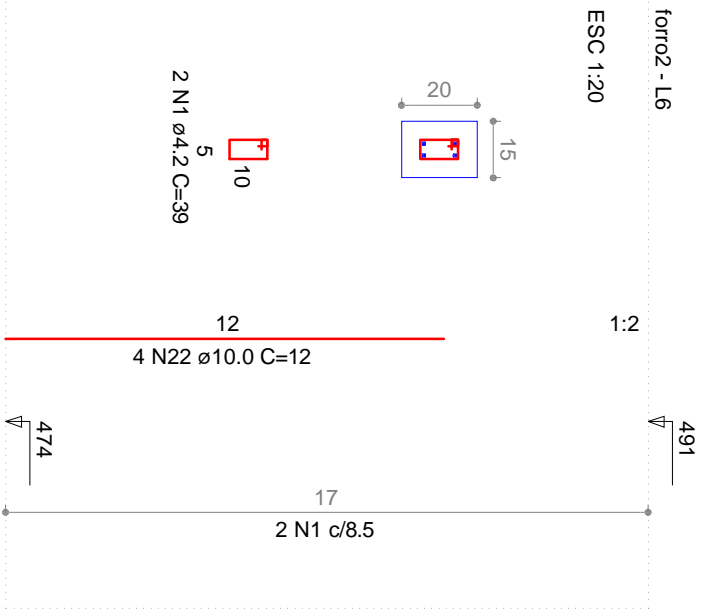
V4 (15 x 25)



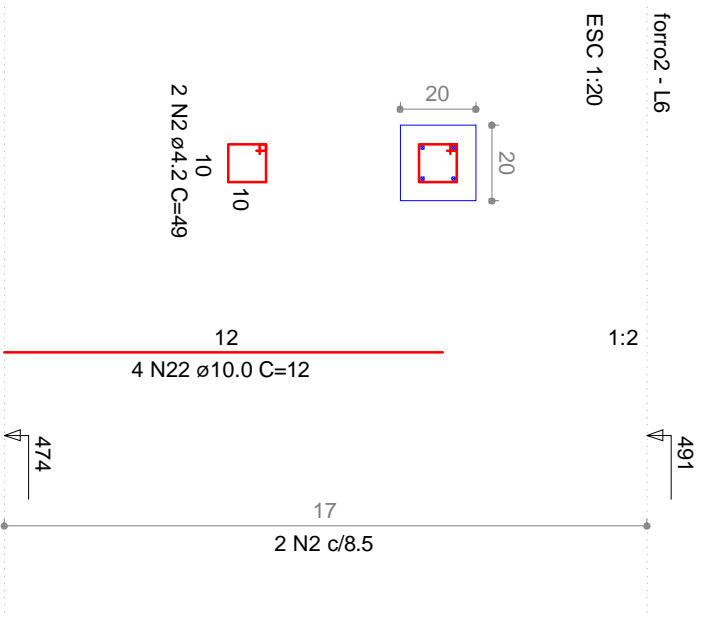
V5 (15 x 25)



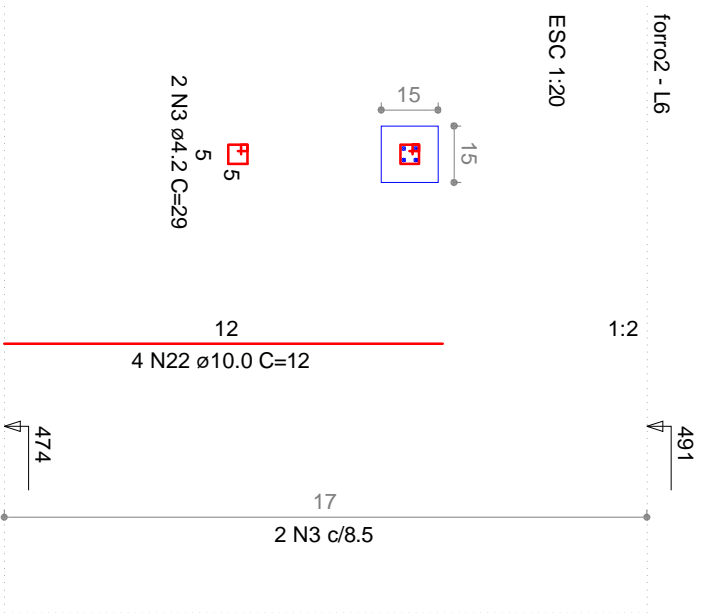
P1



P2=P4=P5



P3



AÇO	N	DIAM	Q	UNIT (cm)	C.TOTAL (cm)
60	1	4.2	2	39	78
	2	4.2	6	49	294
	3	4.2	2	29	58
	4	4.6	129	65	8385
	5	8.0	2	329	658
	6	8.0	5	353	1765
	7	8.0	12	VAR	VAR
	8	8.0	10	404	4040
	9	8.0	4	VAR	VAR
	10	8.0	2	286	572
50	11	8.0	2	286	572
	12	8.0	2	229	458
	13	8.0	1	140	140
	14	8.0	2	242	484
	15	8.0	2	436	872
	16	8.0	1	259	259
	17	8.0	2	334	668
	18	8.0	2	348	696
	19	8.0	2	289	578
	20	8.0	1	133	133
23	21	8.0	2	300	600
	22	10.0	20	12	240
	23	12.5	2	430	860

RESUMO DO AÇO

AÇO	DIAM	C.TOTAL (m)	PESO+10% (kg)
CASO	8.0	173.4	75.4
CASO	10.0	2.4	1.6
CASO	12.5	8.6	9.1
CASO	4.2	4.3	0.5
CASO	4.6	83.4	12.0
PESO TOTAL			
CASO	86.1		
CASO	12.5		

Volume de concreto total = 1,91 m³
Área de forma total = 21,17 m²
fck = 250.00 kg/cm²

TÍTULO: FERRAGEM

OBRA:	AUDITÓRIO RECEP		
LOCAL:	FRANCA SP		
CLIENTE:	UNIFACEF		
ENG.	VIRGINIO H. V. REIS		
CREA:	0600706662	OBS:	
ESCALA:	INDICADA		
DATA	NOV 2012		