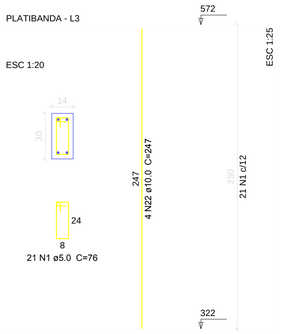
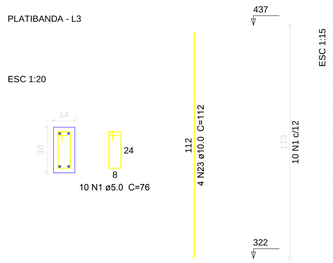
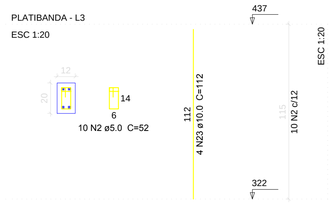
P2=P3=P5=P6



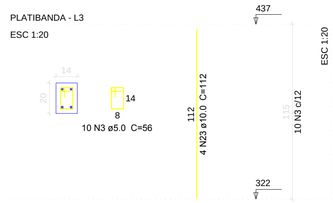
P4=P7



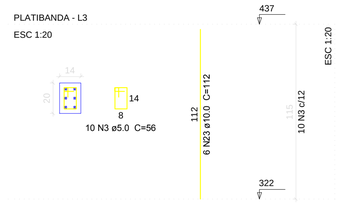
P11=P12=P13=P14=P16=P18=P19=P20=P21=P23



P15



P22



Relação do aço

4xP2	2xP4	10xP11
P15	P22	V1
V2	V3	V4
V5	V6	V7
V8		

AÇO	N	DIAM (mm)	QUANT (Barras)	UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	104	76	7904
	2	5.0	477	52	24804
	3	5.0	238	56	13328
CA50	4	8.0	2	1082	2164
	5	8.0	2	208	416
	6	8.0	2	606	1212
	7	8.0	2	642	1284
	8	8.0	4	368	1472
	9	8.0	4	390	1560
	10	8.0	2	1052	2104
	11	8.0	2	178	356
	12	8.0	2	1105	2210
	13	8.0	2	155	310
	14	8.0	2	697	1394
	15	8.0	2	710	1420
	16	8.0	2	229	458
	17	8.0	2	244	488
	18	8.0	2	221	442
	19	8.0	2	243	486
	20	8.0	2	705	1410
	21	8.0	2	701	1402
	22	10.0	16	247	3952
	23	10.0	58	112	6496

Resumo do aço

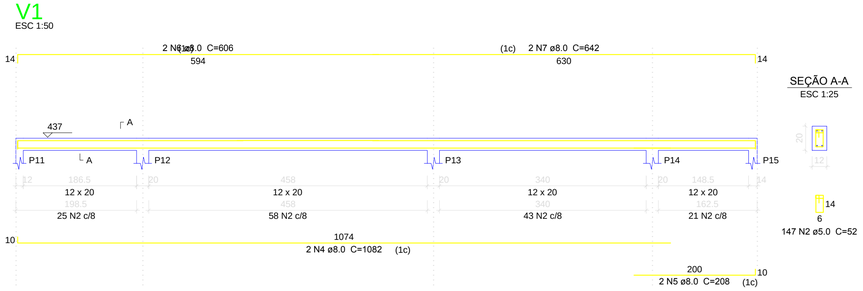
AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	8.0	205.9	89.4
	10.0	104.5	70.9
CA60	5.0	460.4	78.1

PESO TOTAL (kg)	
CA50	160.2
CA60	78.1

Volume de concreto (C-25) = 2.14 m³
Área de forma = 46.28 m²

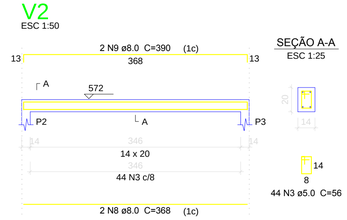
V1

ESC 1:50



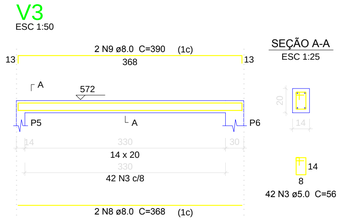
V2

ESC 1:50



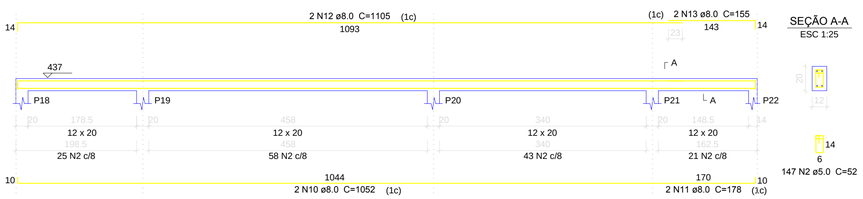
V3

ESC 1:50



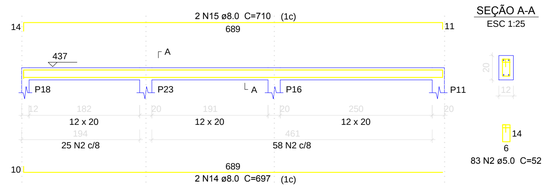
V4

ESC 1:50



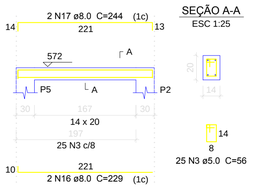
V5

ESC 1:50



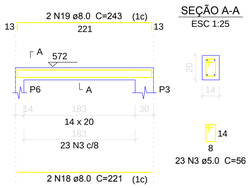
V6

ESC 1:50



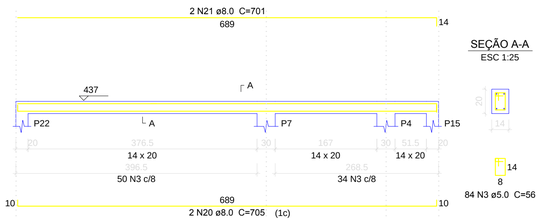
V7

ESC 1:50



V8

ESC 1:50



PROJETO ESTRUTURAL

OBRA:
COZINHA ESCOLA
ENDEREÇO:
UBIRATA

RESPONSÁVEL TÉCNICO:
REGINALDO DA SILVA RETAMERO CREA: 94820/D -PR

Conteúdo:
PILARES PLATIBANDA
VIGA PLATIBANDA

PAVIMENTO:	UNIDADE:	TOTAL DE PRANCHAS
PLATIBANDA	cm	05

PROPRIETÁRIO:
PREFEITURA MUNICIPAL DE UBIRATA

DESENHO:	DATA:	FOLHA:
EDUARDO	23/04/2019	05 / 05

A1