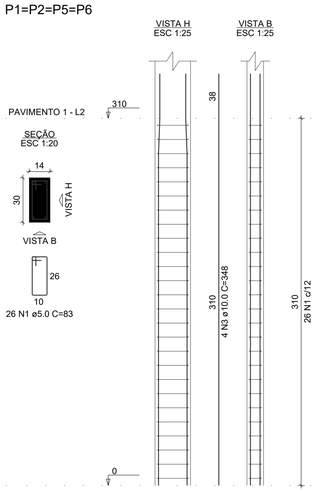
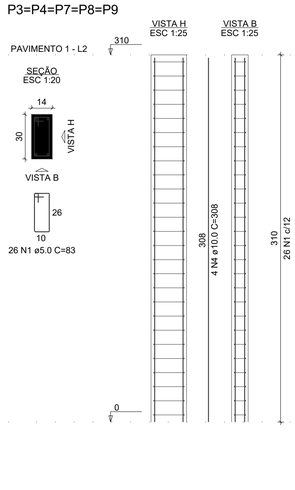
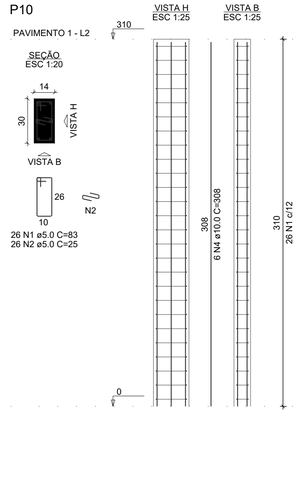
P1=P2=P5=P6



P3=P4=P7=P8=P9



P10



RELAÇÃO DO AÇO

4xP1 5xP3 P10

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	260	83	21580
	2	5.0	26	25	650
CA50	3	10.0	16	348	5568
	4	10.0	26	308	8008

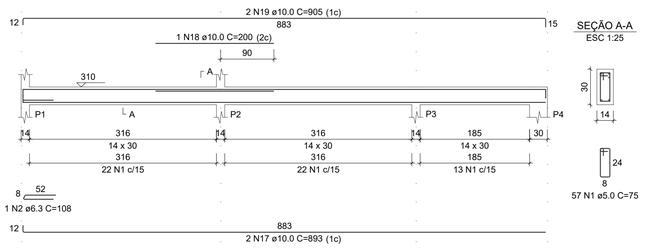
RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 0% (kg)
CA50	10.0	135.8	83.7
CA60	5.0	222.3	34.3
PESO TOTAL (kg)			
CA50	83.7		
CA60	34.3		

Volume de concreto (C-25) = 1.30 m³
Área de forma = 27.28 m²

V1

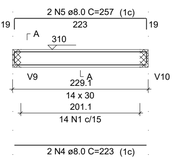
ESC 1:50



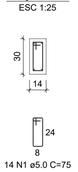
SEÇÃO A-A
ESC 1:25

V2

ESC 1:50

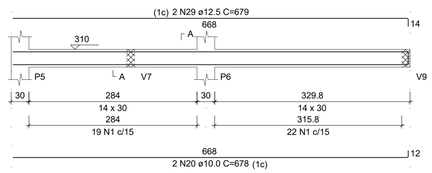


SEÇÃO A-A
ESC 1:25

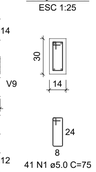


V3

ESC 1:50

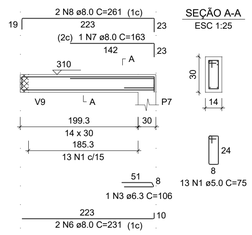


SEÇÃO A-A
ESC 1:25



V4

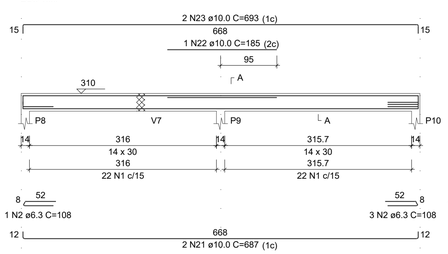
ESC 1:50



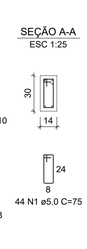
SEÇÃO A-A
ESC 1:25

V5

ESC 1:50

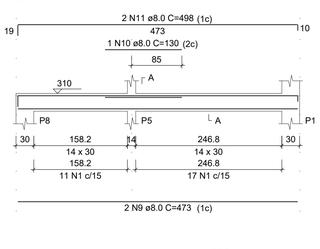


SEÇÃO A-A
ESC 1:25

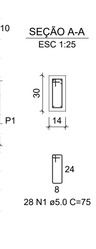


V6

ESC 1:50

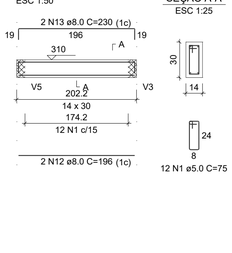


SEÇÃO A-A
ESC 1:25



V7

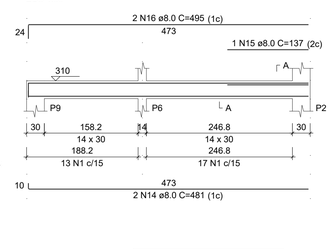
ESC 1:50



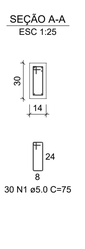
SEÇÃO A-A
ESC 1:25

V8

ESC 1:50

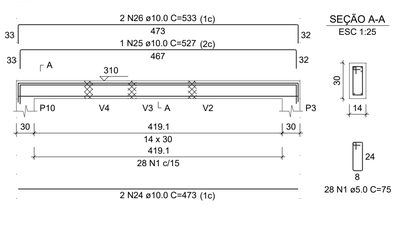


SEÇÃO A-A
ESC 1:25



V9

ESC 1:50



SEÇÃO A-A
ESC 1:25

RELAÇÃO DO AÇO

V1 V2 V3
V4 V5 V6
V7 V8 V9
V10

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	290	75	21750
CA50	2	6.3	9	108	972
	3	6.3	1	106	106
	4	8.0	2	223	446
	5	8.0	2	257	514
	6	8.0	2	231	462
	7	8.0	1	163	163
	8	8.0	2	261	522
	9	8.0	2	473	946
	10	8.0	1	130	130
	11	8.0	2	498	996
	12	8.0	2	196	392
	13	8.0	2	230	460
	14	8.0	2	481	962
	15	8.0	1	137	137
	16	8.0	2	495	990
	17	10.0	2	893	1786
	18	10.0	1	200	200
	19	10.0	2	905	1810
	20	10.0	2	678	1356
	21	10.0	2	687	1374
	22	10.0	1	185	185
	23	10.0	2	693	1386
	24	10.0	2	473	946
	25	10.0	1	527	527
	26	10.0	2	533	1066
	27	10.0	2	377	754
	28	10.0	2	385	770
	29	12.5	2	679	1358

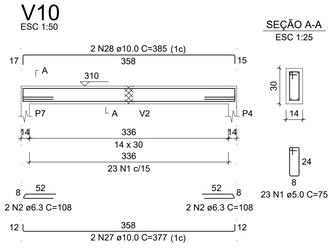
RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 0% (kg)
CA50	6.3	10.8	2.6
	8.0	71.2	28.1
	10.0	121.6	75
	12.5	13.6	13.1
CA60	5.0	217.5	33.5
PESO TOTAL (kg)			
CA50	118.8		
CA60	33.5		

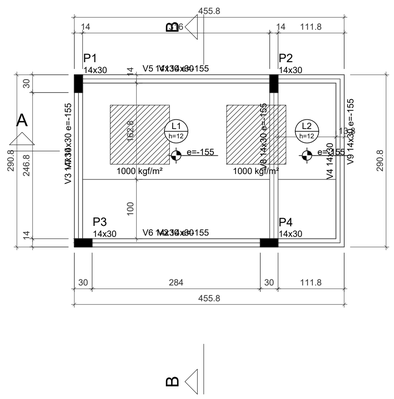
Volume de concreto (C-25) = 1.77 m³
Área de forma = 22.06 m²

V10

ESC 1:50



SEÇÃO A-A
ESC 1:25



A

B

Forma do pavimento Caixa dágua (Nível 540)

escala 1:50

Vigas			
Nome	Seção (cm)	Elevação (cm)	Nível (cm)
V1	14x30	0	540
V2	14x30	0	540
V3	14x30	0	540
V4	14x30	0	540
V5	14x30	-155	385
V6	14x30	-155	385
V7	14x30	-155	385
V8	14x30	-155	385
V9	14x30	-155	385

Lajes								
		Dados				Sobrecarga (kgf/m²)		
Nome	Tipo	Altura (cm)	Elevação (cm)	Nível (cm)	Peso próprio (kgf/m²)	Adicional	Acidental	Localizada
L1	Maciça	12	-155	385	300	182	150	sim
L2	Maciça	12	-155	385	300	182	150	sim

Características dos materiais	
fck (kgf/cm²)	Ecs (kgf/cm²)
250	241500

Pilares			
Nome	Seção (cm)	Elevação (cm)	Nível (cm)
P1	14x30	0	540
P2	14x30	0	540
P3	14x30	0	540
P4	14x30	0	540

Legenda dos pilares	
	Pilar que morre

Legenda das vigas e paredes	
	Viga

PROJETO ESTRUTURAL

DATA: JAN/26

BANHEIROS

PILARES, VIGAS E LAJES DO PAVIMENTO 1 E FORMA DA CAIXA DÁGUA

RESP. TÉC.: LUIZ PAULO DE CARVALHO LOPES
CREA 133.888/D- MG

PREFEITURA MUNICIPAL DE CAPITÃO ANDRADE
CNPJ: 66.229.105/0001-25

folha 04/05

ÁREA: 42,72 m²

END: RUA JOSÉ DE ESTEVÃO DE BARROS, S/N - CENTRO - CAPITÃO ANDRADE/MG