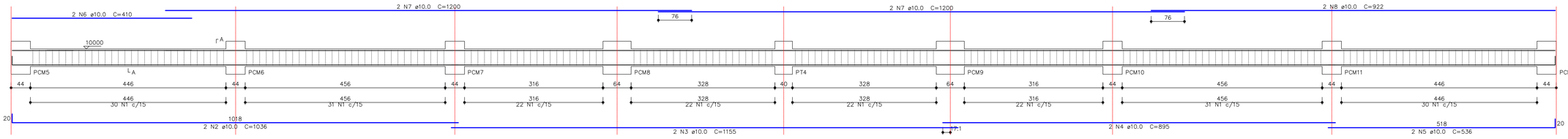
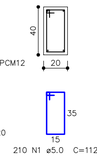
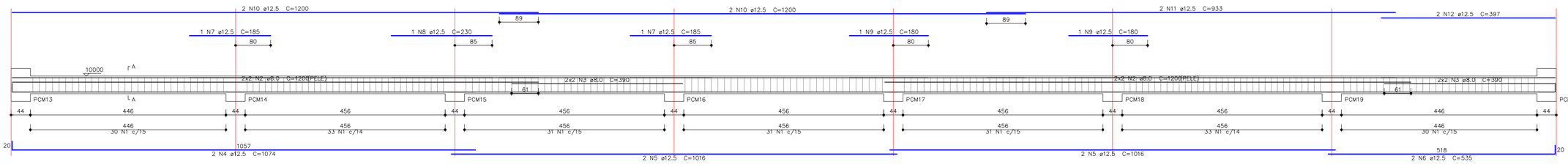
VB1
ESC 1:50



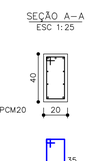
SEÇÃO A–A
ESC 1:25



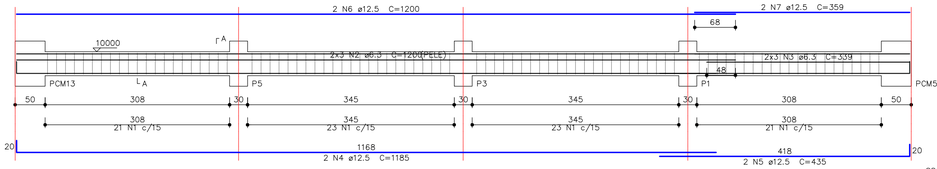
VB2
ESC 1:50



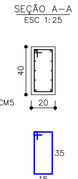
SEÇÃO A–A
ESC 1:25



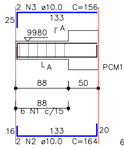
VB3
ESC 1:50



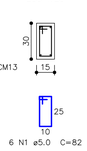
SEÇÃO A–A
ESC 1:25



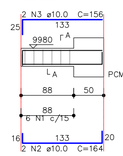
VB4
ESC 1:50



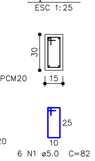
SEÇÃO A–A
ESC 1:25



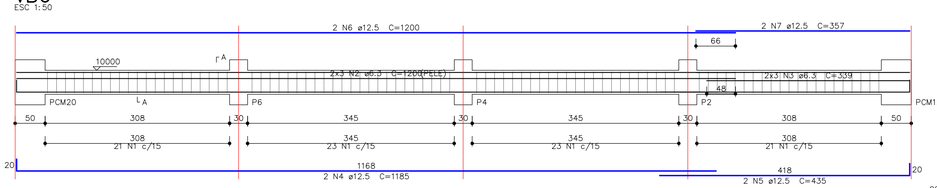
VB5
ESC 1:50



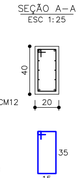
SEÇÃO A–A
ESC 1:25

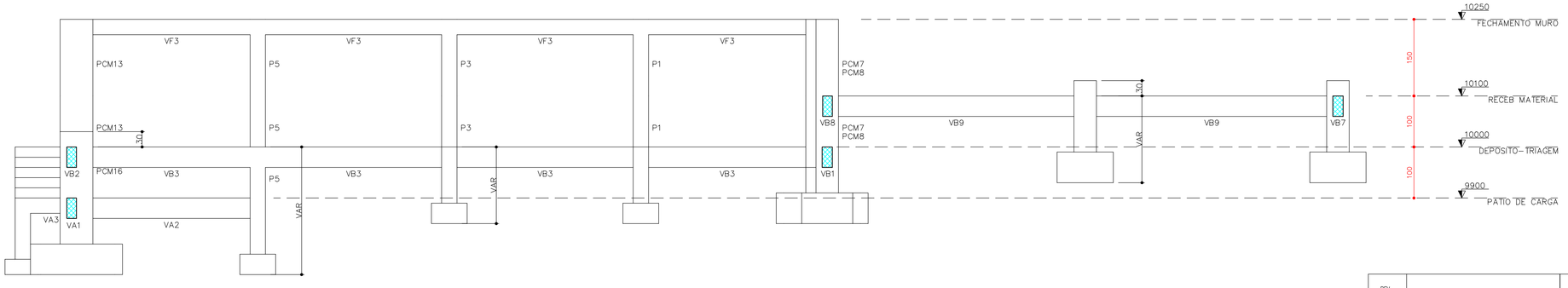


VB6
ESC 1:50



SEÇÃO A–A
ESC 1:25





CORTE C–C
ESCALA 1:50

MENU DE PENAS

PENA	ESPESSURA	COR
1	0.03	7
2	0.07	7
3	0.1	7
4	0.4	4
5	0.2	4
6	0.3	7
7	0.25	7
8	0.15	7
9	0.15	9
130	0.15	130
254	0.15	254

DEMAIS PENAS 0,15 NA COR
PLOTAGEM ESCALA 1:100

Relação do aço

ELEMENTO	AÇO	N	DIAM (mm)	QUANT (Barras)	UNIT (cm)	C.TOTAL (cm)
2xLE1	CA50	1	6.3	10	242	2420
	CA50	2	6.3	4	96	384
	CA50	3	6.3	14	230	3220
	CA50	4	6.3	14	105	1470
	CA50	5	6.3	14	VAR	VAR
	CA50	6	6.3	28	116	3248
2xP5	CA60	1	5.0	14	92	1288
	CA50	2	12.5	8	180	1440
6xPCM15	CA60	1	5.0	132	208	27456
	CA60	2	5.0	264	74	19536
	CA60	3	5.0	264	54	14256
	CA50	4	12.5	72	127	9144
4xS1	CA60	1	5.0	28	92	2576
	CA50	2	10.0	28	151	4228
	CA50	3	10.0	76	121	9196
	CA50	4	12.5	16	VAR	VAR
2xSCM8	CA60	1	5.0	14	208	2912
	CA60	2	5.0	28	74	2072
	CA60	3	5.0	28	54	1512
	CA50	4	10.0	44	171	7524
	CA50	5	10.0	22	211	4642
	CA50	6	12.5	24	VAR	VAR
4xSCM10	CA60	1	5.0	28	208	5824
	CA60	2	5.0	56	74	4144
	CA60	3	5.0	56	54	3024
	CA50	4	10.0	140	307	42980
	CA50	5	10.0	64	423	27072
	CA50	6	12.5	48	VAR	VAR
2xSCM12	CA60	1	5.0	14	208	2912
	CA60	2	5.0	28	74	2072
	CA60	3	5.0	28	54	1512
	CA50	4	10.0	48	211	10128
	CA50	5	10.0	32	241	7712
	CA50	6	12.5	24	VAR	VAR
ST4	CA60	1	5.0	7	112	784
	CA60	2	5.0	14	30	420
	CA50	3	10.0	8	171	1368
	CA50	4	10.0	23	131	3013
	CA50	5	12.5	8	VAR	VAR
VB1	CA60	1	5.0	210	112	23520
	CA50	2	10.0	2	1036	2072
	CA50	3	10.0	2	1155	2310
	CA50	4	10.0	2	895	1790
	CA50	5	10.0	2	536	1072
	CA50	6	10.0	2	410	820
	CA50	7	10.0	4	1200	4800
	CA50	8	10.0	2	922	1844
VB2	CA50	1	6.3	219	112	24528
	CA50	2	8.0	8	1200	9600
	CA50	3	8.0	8	390	3120
	CA50	4	12.5	2	1074	2148
	CA50	5	12.5	4	1016	4064
	CA50	6	12.5	2	535	1070
	CA50	7	12.5	2	185	370
	CA50	8	12.5	1	230	230
	CA50	9	12.5	2	180	360
	CA50	10	12.5	4	1200	4800
	CA50	11	12.5	2	933	1866
	CA50	12	12.5	2	397	794
VB3	CA60	1	5.0	88	112	9856
	CA50	2	6.3	6	1200	7200
	CA50	3	6.3	6	339	2034
	CA50	4	12.5	2	1185	2370
	CA50	5	12.5	2	435	870
	CA50	6	12.5	2	1200	2400
	CA50	7	12.5	2	359	718
VB4	CA60	1	5.0	6	82	492
	CA50	2	10.0	2	164	328
	CA50	3	10.0	2	156	312
VB5	CA60	1	5.0	6	82	492
	CA50	2	10.0	2	164	328
	CA50	3	10.0	2	156	312
VB6	CA60	1	5.0	88	112	9856
	CA50	2	6.3	6	1200	7200
	CA50	3	6.3	6	339	2034
	CA50	4	12.5	2	1185	2370
	CA50	5	12.5	2	435	870
	CA50	6	12.5	2	1200	2400
	CA50	7	12.5	2	357	714

Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	6.3	568.5	153
	8.0	127.2	55.2
	10.0	1338.6	907.8
	12.5	615.6	652.3
CA60	5.0	1365.2	231.5

PESO TOTAL (kg)	
CA50	1768.3
CA60	231.5

Volume de concreto Sapatas (C=25) = 10.25 m³
Volume de concreto Pilares/ Vigas e escada(C=25) = 14.78 m³
Área de forma Sapatas= 32.72 m²
Área de forma Pilares/ Vigas e escada= 156.08 m²

REV	
VER	
DATA	
REV	
VER	
DATA	

2MB ENGENHARIA e PROJETOS
RUA RIO BARBOSA Nº 1721, VILA SANTA HELENA FONE (018)-3221-1479 CEL.9702-6868 – CEP:19.430-000 – PRES.PRUDENTE – SP

FOLHA: EC–06

PROJETO: ESTRUTURA DE CONCRETO ARMADO – ADMINISTRAÇÃO/REFEITÓRIO
OBRA: PÚBLICA – CENTRO TRIAGEM DE MATERIAIS RECICLAVEIS
LOCAL DA OBRA: RODOVIA DEMÉTRIO ANTÔNIO ZACARIAS (2KM+200M) – SANTO ANASTÁCIO – SP
INTERESSADO: PREFEITURA MUNICIPAL DE SANTO ANASTACIO
ASSUNTO:

DETALHAMENTO DE VIGAS BALDRAME DO NIVEL 10000cm

DATA: MARÇO DE 2015
ESCALA: 1:50
ENG. RESPONSAVEL: MORANDIR MEIRA BRANDAO CREA: 5060040121/SP

A1=840x594mm