CONFIGURAÇÃO DE PINAS EM PRETO

	01	02	03	04	05	06	07	08	252	253	180	50
COR	0,1	0,2	0,3	0,4	0,5	0,6	0,7	0,8	0,05	0,05	1,00	1,40
ESP.												

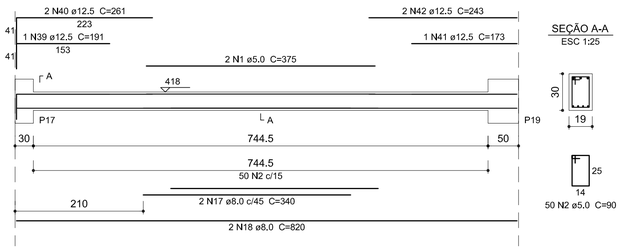
COLOR PLOTAR NA MESMA COR

	10	30	110	113	116	160	251	254	255
COR									
ESP.	0,8	0,2	0,65	0,65	0,65	0,6	0,1	0,2	0,2

COLOR 70% DA COR

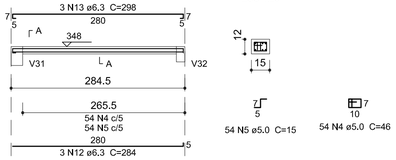
	31	61	93	94
COR				

V1
ESC 1:50



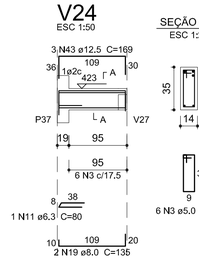
SEÇÃO A-A
ESC 1:25

V2=V3=V4=V5=V6=V7=V8=V9=V10
V11=V12=V13=V14=V15=V16=V17
V19=V20=V21=V22=V23
ESC 1:50



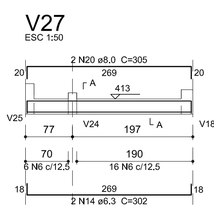
SEÇÃO A-A
ESC 1:25

V24
ESC 1:50

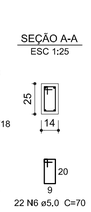


SEÇÃO A-A
ESC 1:25

V27
ESC 1:50



SEÇÃO A-A
ESC 1:25



Relação do aço

V1 21xV10 V18
V24 V25 V27
V28

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5,0	2	375	750
	2	5,0	50	90	4500
	3	5,0	6	90	540
	4	5,0	1134	46	52164
	5	5,0	1134	15	17010
	6	5,0	22	70	1540
	7	5,0	20	120	2400
	8	5,0	2	386	772
	9	5,0	85	110	9350
	10	5,0	61	120	7320
CA50	11	6,3	4	80	320
	12	6,3	63	284	17892
	13	6,3	63	298	18774
	14	6,3	2	302	604
	15	6,3	6	CORR	4680
	16	6,3	22	120	2640
	17	8,0	2	340	680
	18	8,0	2	820	1640
	19	8,0	2	135	270
	20	8,0	2	305	610
	21	8,0	1	196	196
	22	8,0	2	429	858
	23	8,0	1	144	144
	24	8,0	2	312	624
	25	8,0	2	471	942
	26	8,0	2	1109	2218
	27	8,0	2	174	348
	28	8,0	3	317	951
	29	10,0	2	313	626
	30	10,0	18	96	1728
	31	10,0	1	331	331
	32	10,0	2	767	1534
	33	10,0	10	91	910
	34	10,0	3	357	1071
	35	10,0	1	200	200
	36	10,0	2	660	1320
	37	10,0	2	155	310
	38	10,0	46	101	4646
	39	12,5	1	191	191
	40	12,5	2	261	522
	41	12,5	1	173	173
	42	12,5	2	243	486
	43	12,5	3	169	507
	44	12,5	1	192	192
	45	12,5	2	232	464
	46	12,5	2	301	602
	47	12,5	1	240	240
	48	12,5	2	656	1312
	49	12,5	1	160	160
	50	12,5	2	520	1040
	51	12,5	26	109	2834

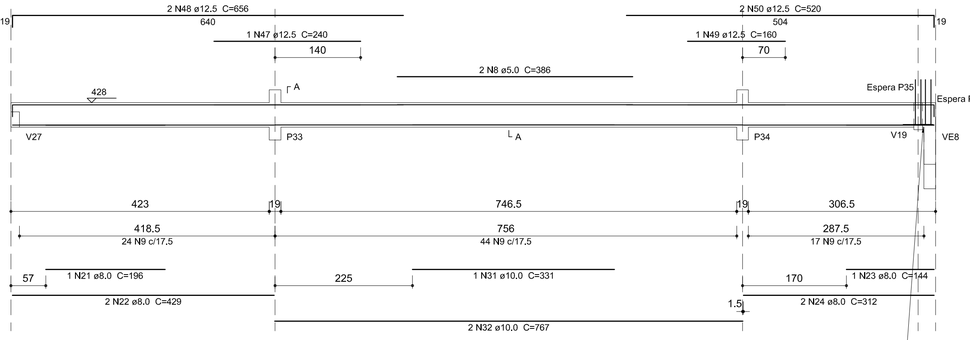
Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	6,3	449,1	120,9
	8,0	94,9	41,2
	10,0	126,8	86
	12,5	87,3	92,4
CA60	5,0	963,5	163,4

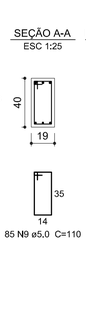
PESO TOTAL (kg)	
CA50	340,4
CA60	163,4

Volume de concreto (C-30) = 4,14 m³
Área de forma = 67,71 m²

V18
ESC 1:50



SEÇÃO A-A
ESC 1:25



ESPERA P35
ESC 1:25

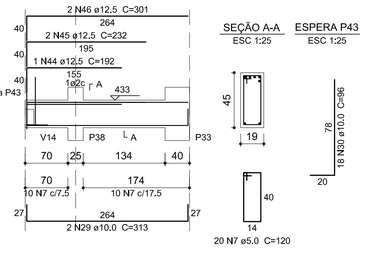


ESPERA P36
ESC 1:25



A ligação do prédio existente com o prédio a construir deverá ser feita após a cura do concreto do prédio a construir, para se evitar retração excessiva do concreto. O último trecho da viga que faz a ligação deverá, portanto, ser concretado a posteriori, com diferença mínima de 60 (sessenta) dias

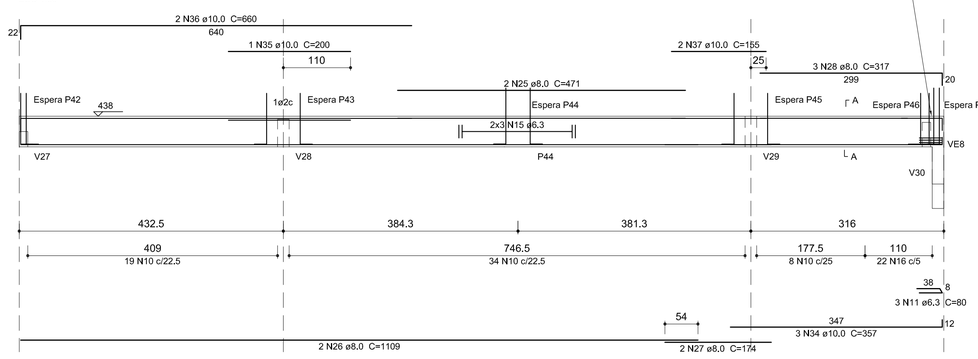
V28
ESC 1:50



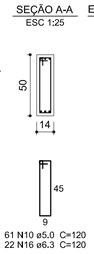
SEÇÃO A-A
ESC 1:25

ESPERA P43
ESC 1:25

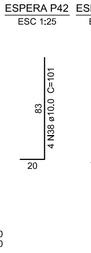
V25
ESC 1:50



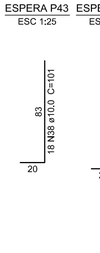
SEÇÃO A-A
ESC 1:25



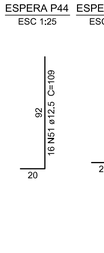
ESPERA P42
ESC 1:25



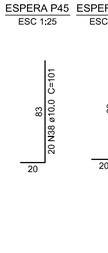
ESPERA P43
ESC 1:25



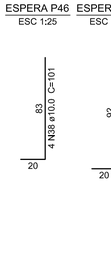
ESPERA P44
ESC 1:25



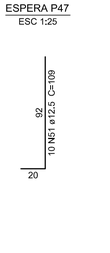
ESPERA P45
ESC 1:25



ESPERA P46
ESC 1:25



ESPERA P47
ESC 1:25



Nº	Data	Versão/Revisão
3		
2		
1		

FERREIRA COSTA
Engenharia e Consultoria Ltda
ferreiracostaengenharia@yahoo.com.br

Proprietário: PREFEITURA MUNICIPAL DE SERRANIA-MG

Projeto: VELÓRIO - PROJETO ESTRUTURAL

Ref.: VIGAS - LAJE - FL.01

Endereço: RUA CORONEL ANTÔNIO FAUSTINO, SERRANIA - MG

Data: SET/2018

Escala: INDICADA

Folha: 10

Autores:
MARLON BATISTA DA COSTA
Eng. Civil/Sanitarista - CREA 50744/D
SIMÔNIA C. FERREIRA COSTA
Eng. Civil - CREA 177925/D

FORMATO A1 - 841x594 mm