

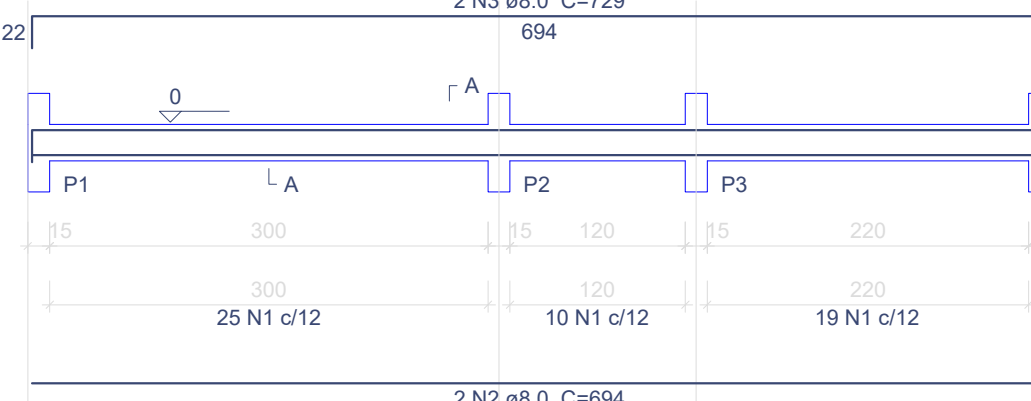
Forma do pavimento TERREO
escala 1:50

Vigas			
Nome	Seção (cm)	Elevação (cm)	Nível (cm)
VB1	15x25	0	0
VB2	15x25	0	0
VB3	15x25	0	0
VB4	15x25	0	0
VB5	15x25	0	0
VB6	15x25	0	0
VB7	15x25	0	0
VB8	15x25	0	0
VB9	15x25	0	0
VB10	15x25	0	0
VB11	15x25	0	0
VB12	15x25	0	0
VB13	15x25	0	0
VB14	15x25	0	0
VB15	15x25	0	0
VB16	15x25	0	0
VB17	15x25	0	0
VB18	15x25	0	0
VB19	15x25	0	0
VB20	15x25	0	0
VB21	15x25	0	0
VB22	15x25	0	0
VB23	15x25	0	0
VB24	15x25	0	0
VB25	15x25	0	0
VB26	15x25	0	0
VB27	15x25	0	0
VB28	15x25	0	0

Características dos materiais			
fck	Ecs	kgf/cm²	kgf/cm²
250		230000	

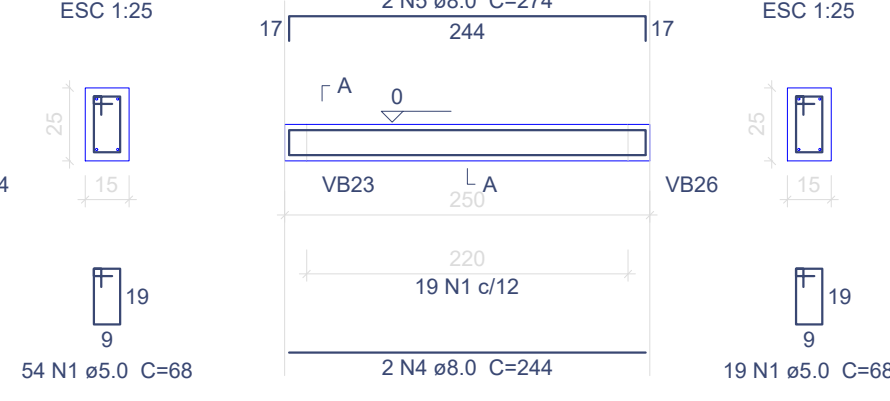
VB1

ESC 1:50



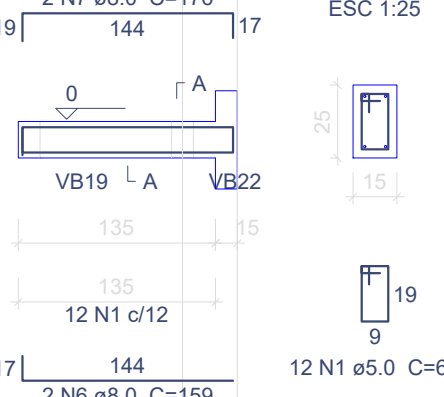
VB2

ESC 1:50



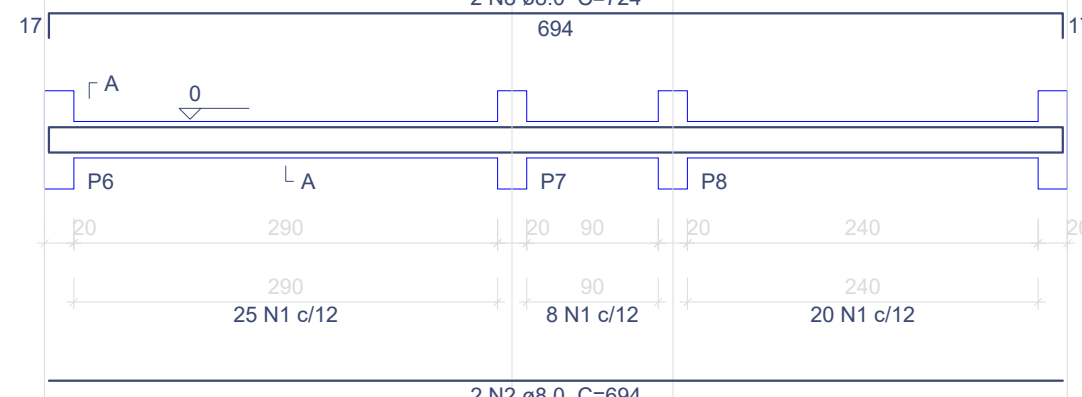
VB3

ESC 1:50



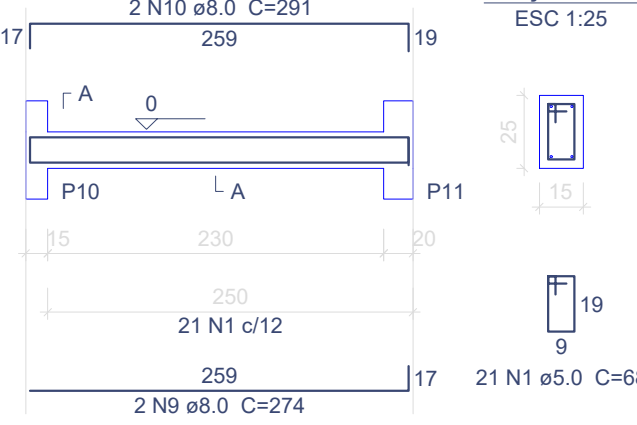
VB4

ESC 1:50



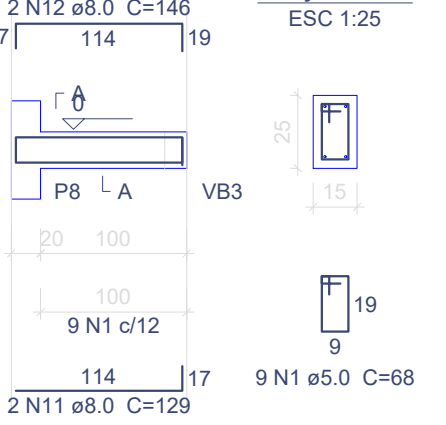
VB5

ESC 1:50



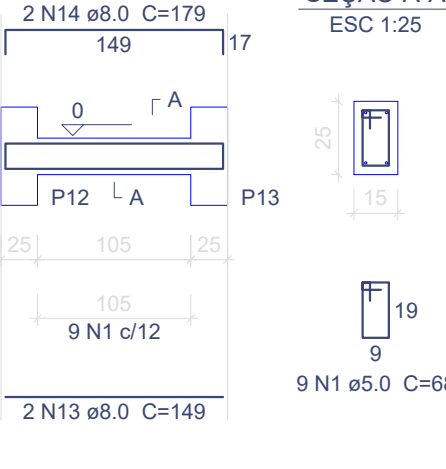
VB22

ESC 1:50



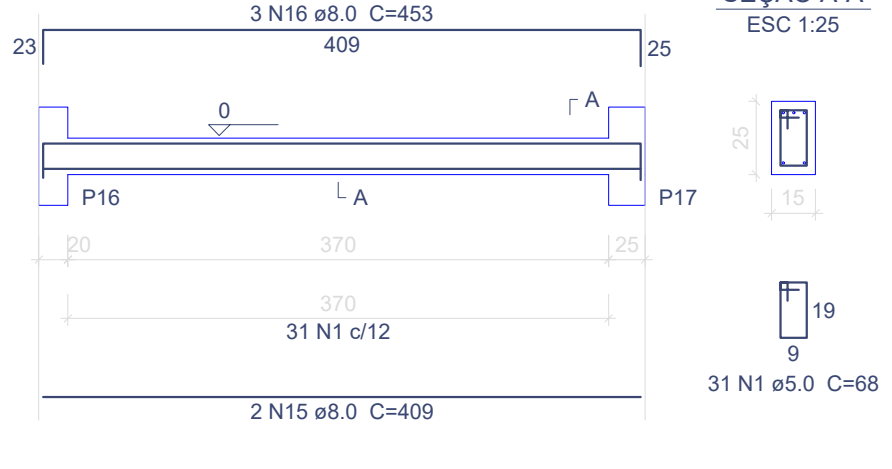
VB6

ESC 1:50



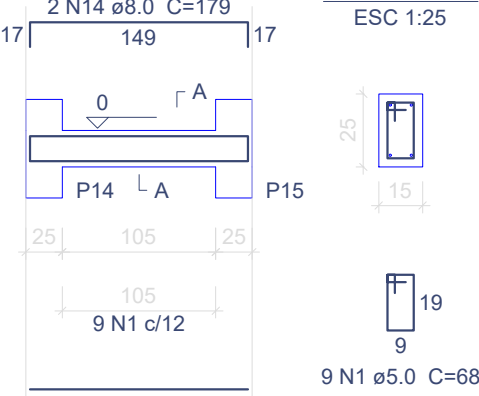
VB7

ESC 1:50



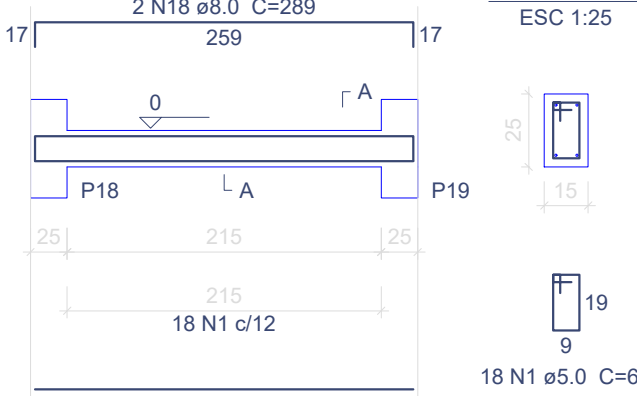
VB8

ESC 1:50



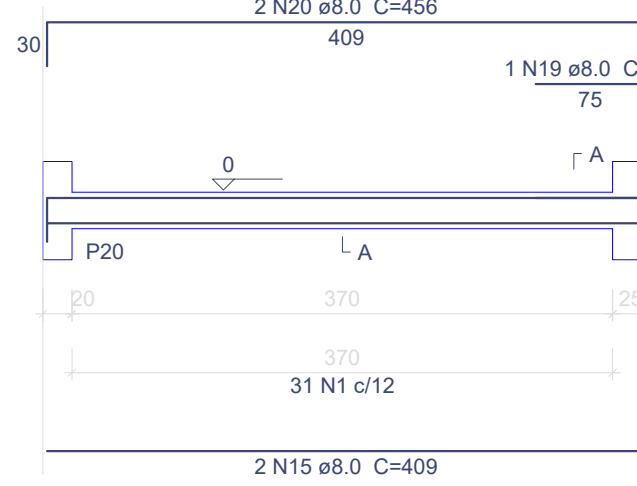
VB9

ESC 1:50



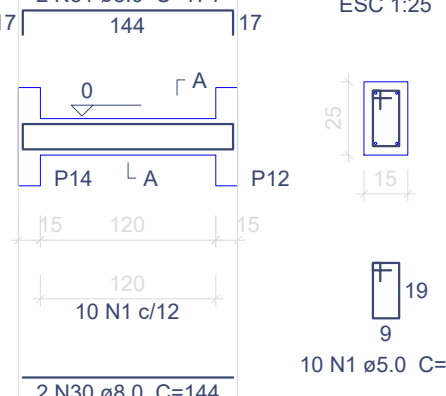
VB10

ESC 1:50



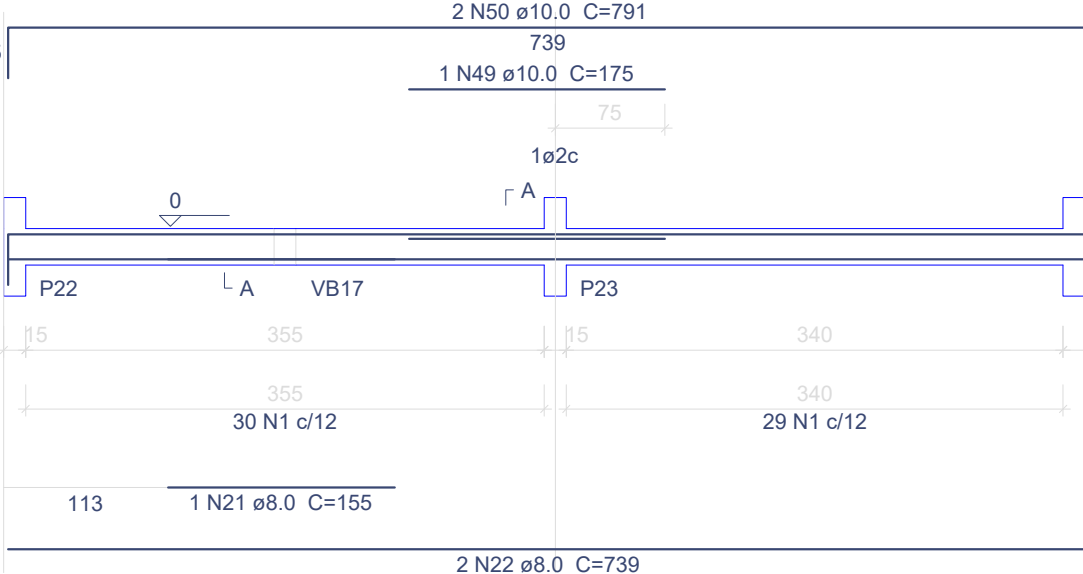
VB16

ESC 1:50



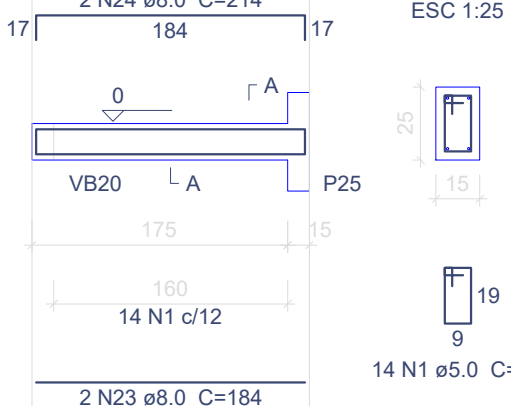
VB11

ESC 1:50



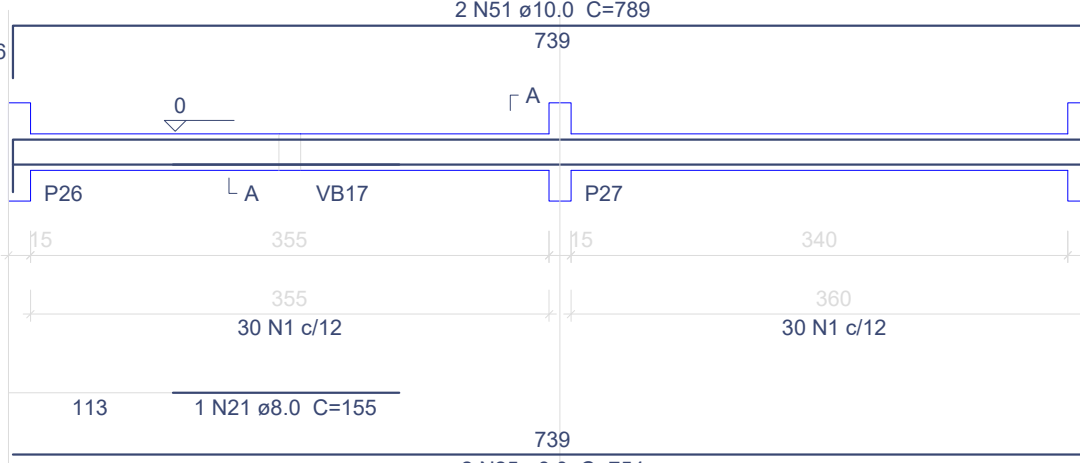
VB12

ESC 1:50



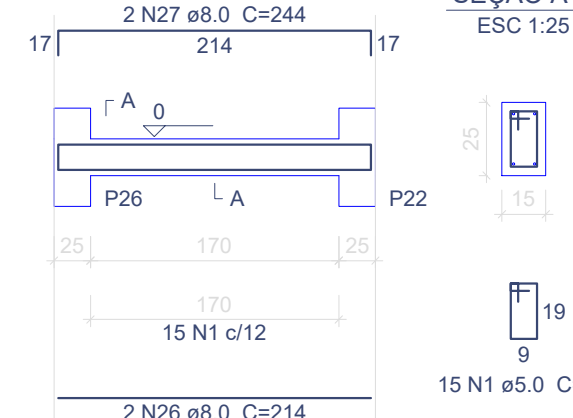
VB13

ESC 1:50



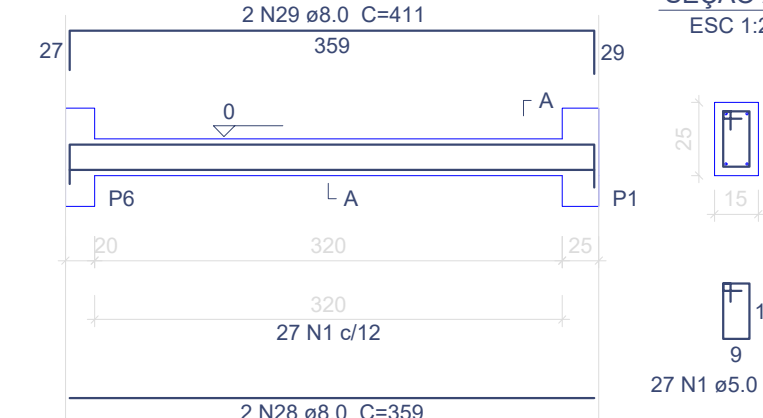
VB14

ESC 1:50



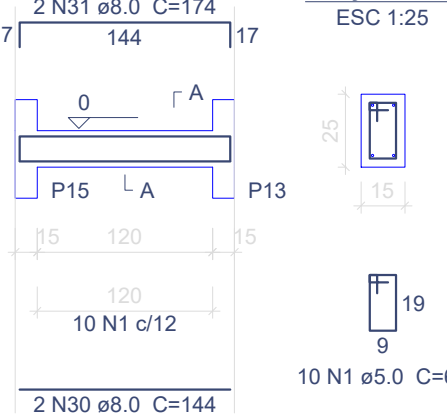
VB15

ESC 1:50



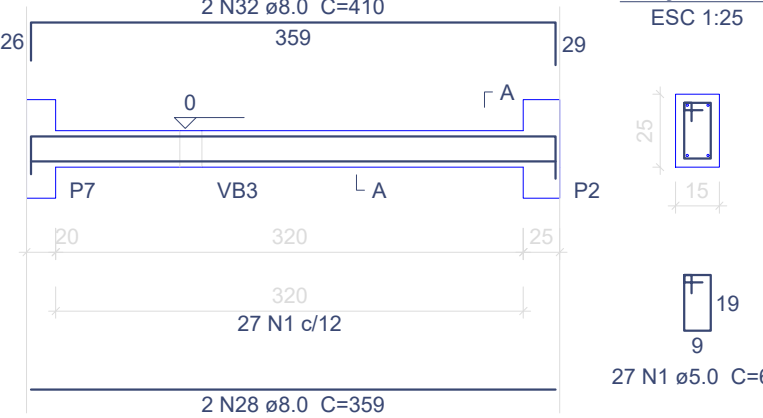
VB18

ESC 1:50



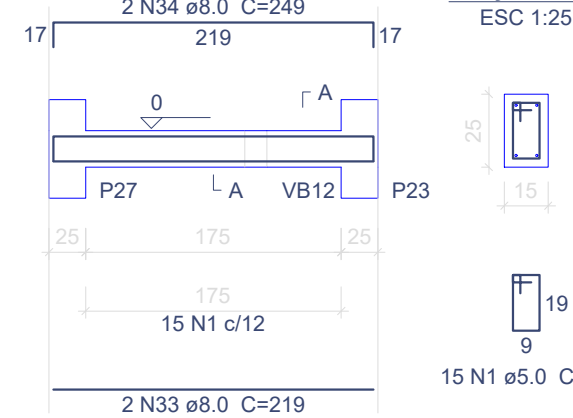
VB19

ESC 1:50



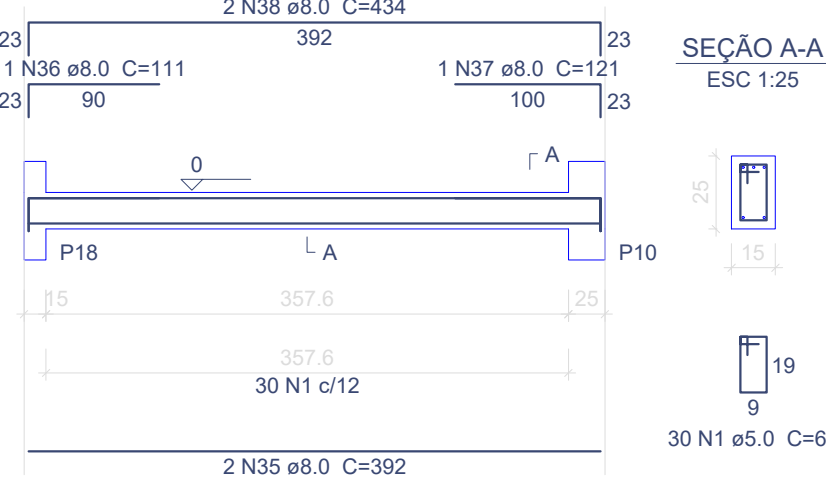
VB20

ESC 1:50



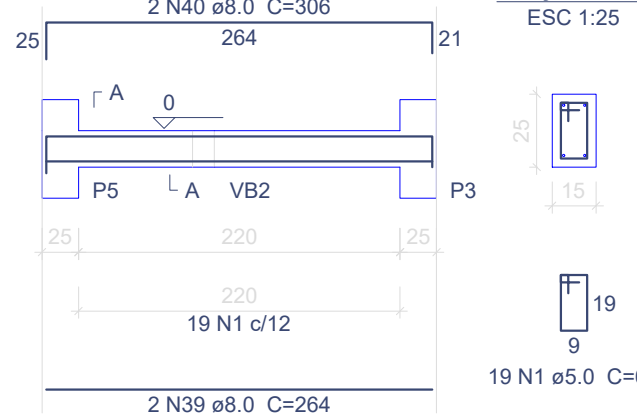
VB21

ESC 1:50



VB23

ESC 1:50



Relação do aço

VB1	VB2	VB3
VB4	VB5	VB8
VB7	VB8	VB11
VB10	VB11	VB12
VB13	VB14	VB15
VB16	VB17	VB18
VB19	VB20	VB21
VB22	VB23	VB24
VB25	VB26	VB27
VB28		

AÇO	N	DIAM (mm)	QUANT (Barras)	UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	707	68	48076
CA50	2	8.0	4	694	2776
	3	8.0	2	729	1458
	4	8.0	2	244	488
	5	8.0	2	274	548
	6	8.0	2	159	318
	7	8.0	2	176	352
	8	8.0	2	724	1448
	9	8.0	2	274	548
	10	8.0	2	291	582
	11	8.0	2	129	258
	12	8.0	2	146	292
	13	8.0	4	149	596
	14	8.0	4	179	716
	15	8.0	4	409	1636
	16	8.0	3	453	1359
	17	8.0	2	259	518
	18	8.0	2	289	578
	19	8.0	1	94	94
	20	8.0	2	456	912
	21	8.0	2	155	310
	22	8.0	2	739	1478
	23	8.0	2	184	368
	24	8.0	2	214	428
	25	8.0	2	754	1508
	26	8.0	4	214	856
	27	8.0	4	244	976
	28	8.0	6	359	2154
	29	8.0	2	411	822
	30	8.0	4	144	576
	31	8.0	4	174	696
	32	8.0	2	410	820
	33	8.0	2	219	438
	34	8.0	2	249	498
	35	8.0	2	322	784
	36	8.0	1	111	111
	37	8.0	1	121	121
	38	8.0	2	434	868
	39	8.0	2	264	528
	40	8.0	2	306	612
	41	8.0	2	394	788
	42	8.0	2	424	848
	43	8.0	2	234	468
	44	8.0	2	251	502
	45	8.0	2	410	820
	46	8.0	2	440	880
	47	8.0	2	402	804
	48	8.0	3	446	1338
	49	10.0	1	175	175
	50	10.0	2	791	1582
	51	10.0	2	789	1578
	52	10.0	2	422	844

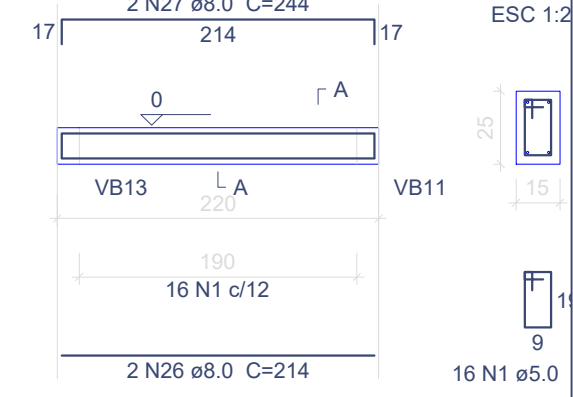
Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO * 10 % (kg)
CA50	8.0	368.8	160.1
	10.0	41.8	28.3
CA60	5.0	480.8	81.5
PESO TOTAL (kg)			
CA50	188.4		
CA60	81.5		

Volume de concreto (C-25) = 3.54 m³
Área de forma = 61.4 m²

VB17

ESC 1:50



OBRA: **REFORMA - UBS CERRADO DA ROSEIRA | ÁREA RURAL PROJETO ESTRUTURAL - REFORMA**

Prefeitura Municipal de Jaguariáiva

Praça Izabel Branco 142 - Cidade Alta - Fone (43) 3535-9400 - Fax (43) 3535-9400
Jaguariáiva -PR - CEP: 84.200-000 - CNPJ 76.910.900/0001-38

Secretaria Municipal de Infraestrutura e Habitação

2013-2016
JOSÉ SLOBODA
PREFEITO MUNICIPAL

TÍTULO: **LOCAÇÃO - BLOCOS - PILARES - VIGAS BALDRAMES**

RESPONSÁVEL TÉCNICO: **Eng. Ana Claudia Krul**
CREA 09.540/D-PR

DESENHO: **Ana Claudia Krul**
DATA: **AGOSTO/2016**

PRONCHA: **03/06**
ESCALA: **INDICADA**