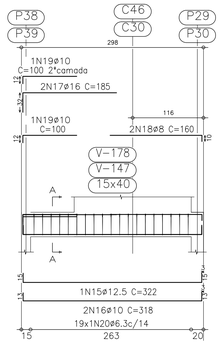
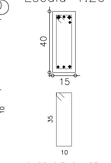
V 29
V 46
Escala 1:50

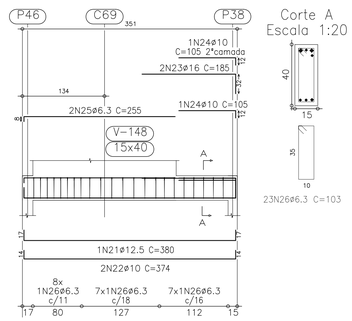


Corte A
Escala 1:20



19N20ø6.3 C=103

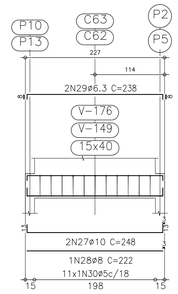
V 30
Escala 1:50



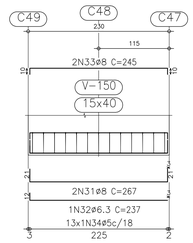
Corte A
Escala 1:20

23N26ø6.3 C=103

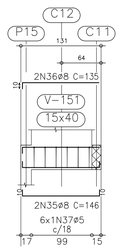
V 31
V 44
Escala 1:50



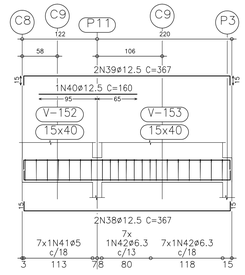
V 32
Escala 1:50



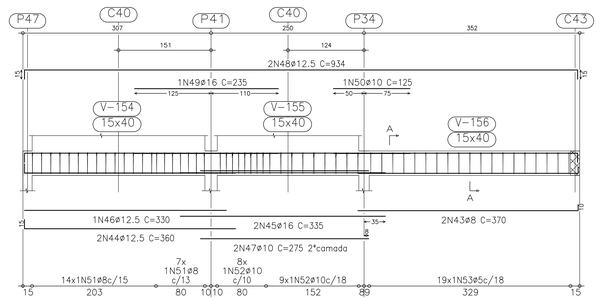
V 33
Escala 1:50



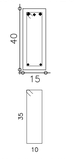
V 34
Escala 1:50



V 35
Escala 1:50

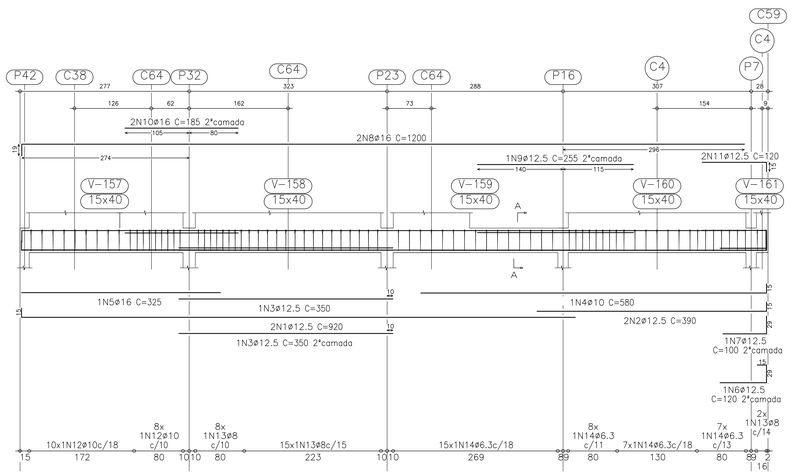


Corte A
Escala 1:20

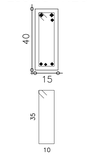


21N51ø8 C=106
17N52ø10 C=110
19N53ø5 C=100

V 36
Escala 1:50



Corte A
Escala 1:20



18N12ø10 C=110
25N13ø8 C=106
38N14ø6.3 C=103

TERREO
Desenho de vigas
Concreto: C25, em geral
Aço: CA-50-A e CA-60-B
Escala vigas: 1:50
Escala seções: 1:20
Nota: A disposição de blocos que se desenha corresponde à primeira fiada, exceto se o muro termina no piso, cujo caso corresponde à última fiada do piso inferior.

Elemento	Pos.	Diam.	Q.	Dob. (cm)	Reta (cm)	Dob. (cm)	Comp. (cm)	Total (cm)	CA-50-A (kg)	CA-60-B (kg)
V 36	1	ø12.5	2	15	905		920	1840	18.1	
	2	ø12.5	2		375	15	390	780	7.7	
	3	ø12.5	2		350		350	700	6.9	
	4	ø10	1		565	15	580	580	3.6	
	5	ø16	1		325		325	325	5.1	
	6	ø12.5	1		76	44	120	120	1.2	
	7	ø12.5	1		71	29	100	100	1.0	
	8	ø16	2	19	1181		1200	2400	37.7	
	9	ø12.5	1		255		255	255	2.5	
	10	ø16	2		185		185	370	5.8	
	11	ø12.5	2		105	15	120	240	2.4	
	12	ø10	18				110	1980	12.4	
	13	ø8	25				106	2650	10.4	
	14	ø6.3	37				103	3811	9.4	
								Total+10%	136.6	

Elemento	Pos.	Diam.	Q.	Dob. (cm)	Reta (cm)	Dob. (cm)	Comp. (cm)	Total (cm)	CA-50-A (kg)	CA-60-B (kg)
V 29=V 46	15	ø12.5	1	15	292	15	322	322	3.2	
	16	ø10	2	13	292	13	318	636	4.0	
	17	ø16	2	32	153		185	370	5.8	
	18	ø8	2		150	10	160	320	1.3	
	19	ø10	2	12	88		100	200	1.3	
	20	ø6.3	19				103	1957	4.8	
								Total+10%	22.4	
								(x2):	44.8	
V 30	21	ø12.5	1	17	346	17	380	380	3.7	
	22	ø10	2	14	346	14	374	748	4.7	
	23	ø16	2		153	32	185	370	5.8	
	24	ø10	2		93	12	105	210	1.3	
	25	ø6.3	2	8	247		255	510	1.3	
	26	ø6.3	22				103	2266	5.6	
								Total+10%	24.6	
V 31=V 44	27	ø10	2	13	222	13	248	496	3.1	
	28	ø8	1		222		222	222	0.9	
	29	ø6.3	2	8	222	8	238	476	1.2	
	30	ø5	11				100	1100		1.7
								Total+10%	5.7	1.9
								(x2):	11.4	3.8
V 32	31	ø8	2	21	225	21	267	534	2.1	
	32	ø6.3	1	12	225		237	237	0.6	
	33	ø8	2	10	225	10	245	490	1.9	
	34	ø5	13				100	1300		2.0
								Total+10%	5.1	2.2
V 33	35	ø8	2	10	126	10	146	292	1.1	
	36	ø8	2	10	125		135	270	1.1	
	37	ø5	6				100	600		0.9
								Total+10%	2.4	1.0
V 34	38	ø12.5	2	15	337	15	367	734	7.2	
	39	ø12.5	2	15	337	15	367	734	7.2	
	40	ø12.5	1		160		160	160	1.6	
	41	ø5	7				100	700		1.1
	42	ø6.3	14				103	1442	3.6	
								Total+10%	21.6	1.2
V 35	43	ø8	2				370	740	2.9	
	44	ø12.5	2	15	345		360	720	7.1	
	45	ø16	2		335		335	670	10.5	
	46	ø12.5	1		330		330	330	3.2	
	47	ø10	2		275		275	550	3.5	
	48	ø12.5	2	15	904	15	934	1868	18.3	
	49	ø16	1		235		235	235	3.7	
	50	ø10	1		125		125	125	0.8	
	51	ø8	21				106	2226	8.7	
	52	ø10	17				110	1870	11.7	
	53	ø5	19				100	1900		3.0
								Total+10%	77.4	3.3
								ø5:	0.0	11.5
								ø6.3:	35.5	0.0
								ø8:	36.1	0.0
								ø10:	60.4	0.0
								ø12.5:	103.9	0.0
								ø16:	88.0	0.0
								Total:	323.9	11.5

Concreto Fck = 25Mpa

CABREIRA RODRIGUES
SOLUÇÕES EM ENGENHARIA

Equipe Técnica
Engº. Civil Cristian Vitoreti Fernandes
Engº. Civil Fabrício Ferreira Rodrigues
Engº. Civil Diego Augusto De Cesaro
Eng. Civil / Eletrotéc. Fábio Ferreira
Acad. Eng. Civil Amanda Bianchini

PROJETO
ESTRUTURAL

RESPONSÁVEL PELO PROJETO
Engº. Civil Fabrício Ferreira Rodrigues
CREA/SC 41413-0

RESPONSÁVEL PELA EXECUÇÃO

OBRA / PROPRIETÁRIO
Vivendas De Barcelona
Rua Salvador e Rua Xingu, Bairro Brasília
Criciúma - Santa Catarina

ASSUNTO:
VIGAS BALDRAME

ARQUIVO
C:\CR\CRI\BARCELONA\ESTR.

FOLHA
08/35

DATA
JAN/13

OBRA
008/CRI

ÁREA
7.846,24m²

ESCALA
1/50

DESENHO
Diego Augusto

Rua Candido Cesar Freire Leão, 453 - Vila Moema - cep 88705-040 - Vila Moema - Tubarão - SC
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CABREIRA RODRIGUES SOLUÇÕES EM ENGENHARIA