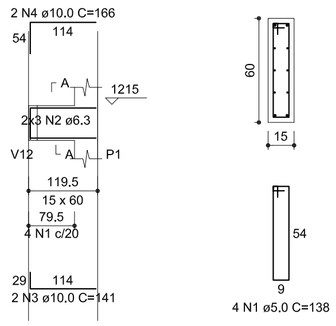
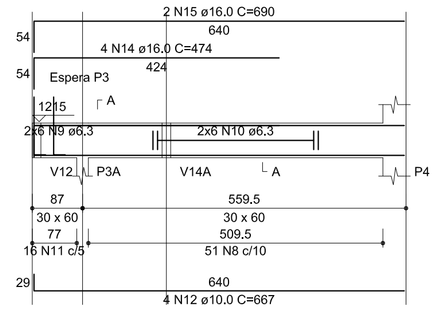
VIGAS - TÉRREO

V1 (15 x 60)
ESC 1:75

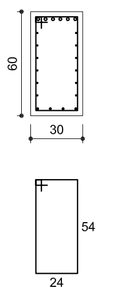


SEÇÃO A-A
ESC 1:25

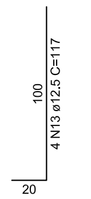
V2 (30 x 60)
ESC 1:75



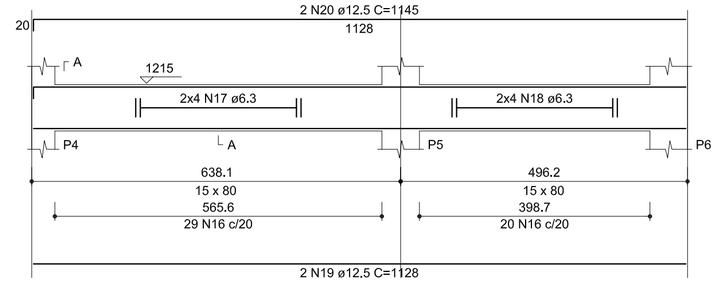
SEÇÃO A-A
ESC 1:25



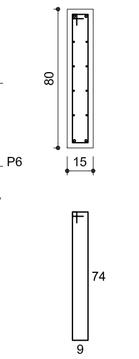
ESPERA P3
ESC 1:25



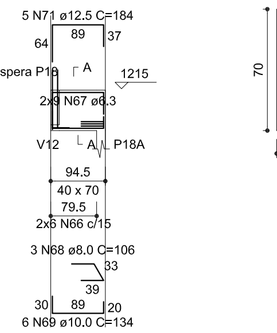
V3 (15 x 80)
ESC 1:75



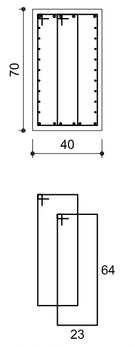
SEÇÃO A-A
ESC 1:25



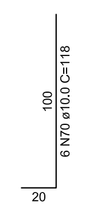
V8 (40 x 70)
ESC 1:75



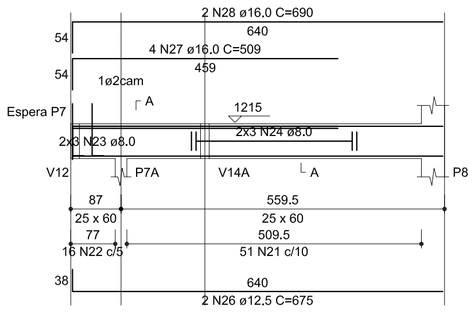
SEÇÃO A-A
ESC 1:25



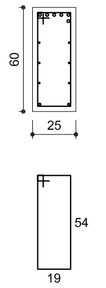
ESPERA P18
ESC 1:25



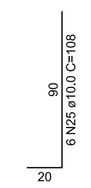
V4 (25 x 60)
ESC 1:75



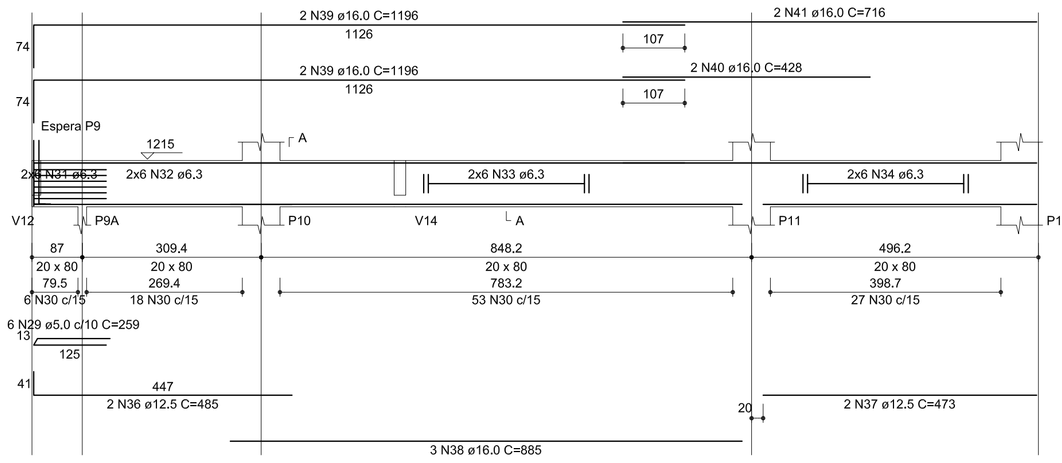
SEÇÃO A-A
ESC 1:25



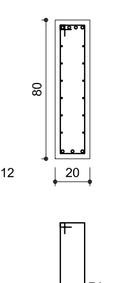
ESPERA P7
ESC 1:25



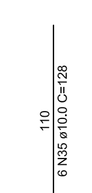
V5 (20 x 80)
ESC 1:75



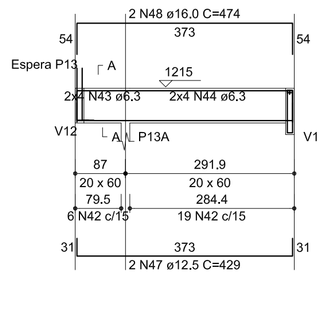
SEÇÃO A-A
ESC 1:25



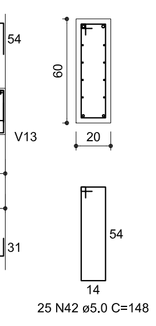
ESPERA P9
ESC 1:25



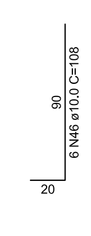
V6 (20 x 60)
ESC 1:75



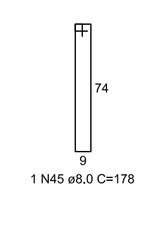
SEÇÃO A-A
ESC 1:25



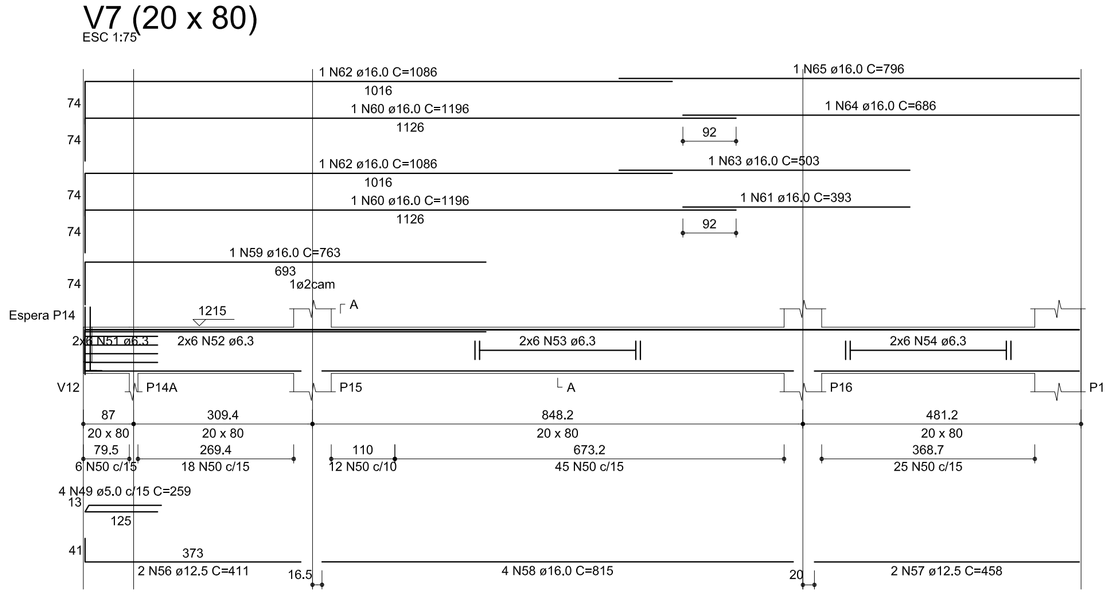
ESPERA P13
ESC 1:25



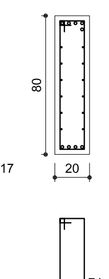
SUSPENSÃO V13
ESC 1:25



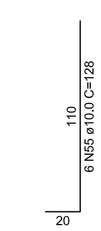
V7 (20 x 80)
ESC 1:75



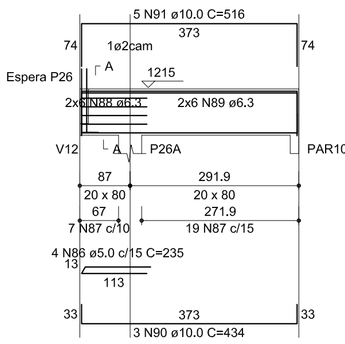
SEÇÃO A-A
ESC 1:25



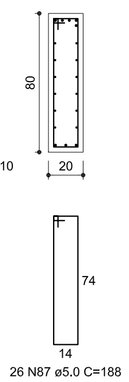
ESPERA P14
ESC 1:25



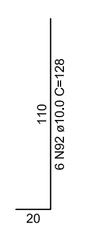
V10 (20 x 80)
ESC 1:75



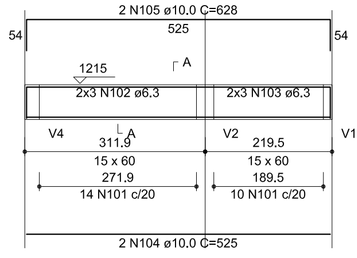
SEÇÃO A-A
ESC 1:25



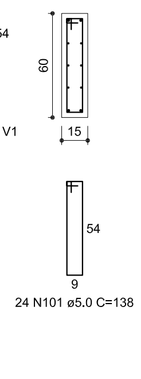
ESPERA P26
ESC 1:25



V14A (15 x 60)
ESC 1:75



SEÇÃO A-A
ESC 1:25



Relação do aço

ELEMENTO	AÇO	N	DIAM (mm)	QUANT (Barras)	UNIT (cm)	C.TOTAL (cm)
V1	CA60	1	5.0	4	138	552
	CA50	2	6.3	6	114	684
	CA50	3	10.0	2	141	282
	CA50	4	10.0	2	166	332
V2	CA60	8	5.0	51	168	8568
	CA50	9	6.3	12	CORR	1092
	CA50	10	6.3	12	CORR	6756
	CA50	11	6.3	16	168	2688
	CA50	12	10.0	4	667	2668
	CA50	13	12.5	4	117	468
	CA50	14	16.0	4	474	1896
	CA50	15	16.0	2	690	1380
V3	CA60	16	5.0	49	178	8722
	CA50	17	6.3	8	CORR	5320
	CA50	18	6.3	8	CORR	4184
	CA50	19	12.5	2	1128	2256
	CA50	20	12.5	2	1145	2290
V4	CA60	21	5.0	51	158	8058
	CA50	22	6.3	16	158	2528
	CA50	23	8.0	6	CORR	546
	CA50	24	8.0	6	CORR	3378
	CA50	25	10.0	6	108	648
	CA50	26	12.5	2	675	1350
	CA50	27	16.0	4	509	2036
	CA50	28	16.0	2	690	1380
V5	CA60	29	5.0	6	259	1554
	CA60	30	5.0	104	188	19552
	CA50	31	6.3	12	CORR	1068
	CA50	32	6.3	12	CORR	4116
	CA50	33	6.3	12	CORR	10884
	CA50	34	6.3	12	CORR	6276
	CA50	35	10.0	6	128	768
	CA50	36	12.5	2	485	970
	CA50	37	12.5	2	473	946
	CA50	38	16.0	3	885	2655
	CA50	39	16.0	4	1196	4784
	CA50	40	16.0	2	428	856
	CA50	41	16.0	2	716	1432
V6	CA60	42	5.0	25	148	3700
	CA50	43	6.3	8	CORR	712
	CA50	44	6.3	8	CORR	2344
	CA50	45	8.0	1	178	178
	CA50	46	10.0	6	108	648
	CA50	47	12.5	2	429	858
	CA50	48	16.0	2	474	948
V7	CA60	49	5.0	4	259	1036
	CA60	50	5.0	106	188	19928
	CA50	51	6.3	12	CORR	1068
	CA50	52	6.3	12	CORR	4116
	CA50	53	6.3	12	CORR	10884
	CA50	54	6.3	12	CORR	6096
	CA50	55	10.0	6	128	768
	CA50	56	12.5	2	411	822
	CA50	57	12.5	2	458	916
	CA50	58	16.0	4	815	3260
	CA50	59	16.0	1	763	763
	CA50	60	16.0	2	1196	2392
	CA50	61	16.0	1	393	393
	CA50	62	16.0	2	1086	2172
	CA50	63	16.0	1	503	503
	CA50	64	16.0	1	686	686
	CA50	65	16.0	1	796	796
V8	CA60	66	5.0	12	186	2232
	CA50	67	6.3	18	CORR	1602
	CA50	68	8.0	3	106	318
	CA50	69	10.0	6	134	804
	CA50	70	10.0	6	118	708
	CA50	71	12.5	5	184	920
V9	CA60	72	5.0	122	188	22936
	CA50	73	6.3	12	CORR	4536
	CA50	74	6.3	12	CORR	10944
	CA50	75	6.3	12	CORR	5328
	CA50	76	12.5	2	406	812
	CA50	77	12.5	2	394	788
	CA50	78	16.0	5	860	4300
	CA50	79	16.0	2	515	1030
	CA50	80	16.0	2	1196	2392
	CA50	81	16.0	1	437	437
	CA50	82	16.0	2	1081	2162
	CA50	83	16.0	1	552	552
	CA50	84	16.0	1	626	626
	CA50	85	16.0	1	741	741
V10	CA60	86	5.0	4	235	940
	CA60	87	5.0	26	188	4888
	CA50	88	6.3	12	CORR	1212
	CA50	89	6.3	12	CORR	3672
	CA50	90	10.0	3	434	1302
	CA50	91	10.0	5	516	2580
	CA50	92	10.0	6	128	768
V11	CA60	93	5.0	56	178	9968
	CA50	94	6.3	8	CORR	7256
	CA50	95	6.3	8	CORR	3552
	CA50	96	12.5	3	858	2574
	CA50	97	12.5	2	394	788
	CA50	98	12.5	2	1118	2236
	CA50	99	12.5	2	1172	2344
	CA50	100	12.5	2	203	406
V14A	CA60	101	5.0	24	138	3312
	CA50	102	6.3	6	CORR	1926
	CA50	103	6.3	6	CORR	1368
	CA50	104	10.0	2	525	1050
	CA50	105	10.0	2	628	1256

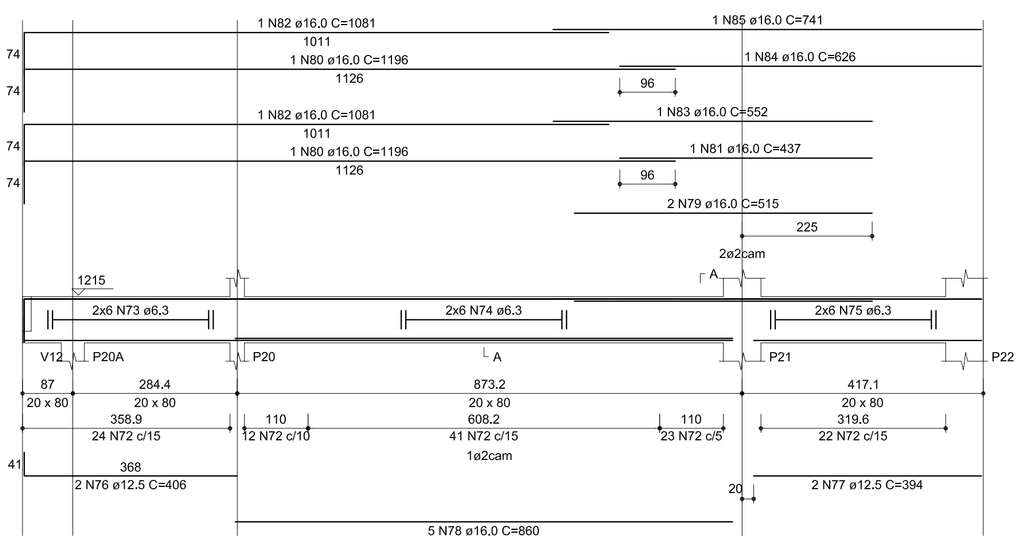
Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO (kg)
CA50	6,3	1159,4	283,7
	8,0	44,2	17,4
	10,0	177,7	109,5
	12,5	217,5	209,5
	16,0	405,8	640,4
CA60	5,0	1194	184

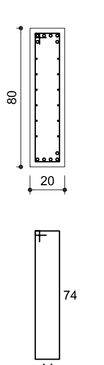
PESO TOTAL (kg)	
CA50	1260,5
CA60	184

Volume de concreto (C-30) = 15,64 m³
Área de forma = 183,66 m²

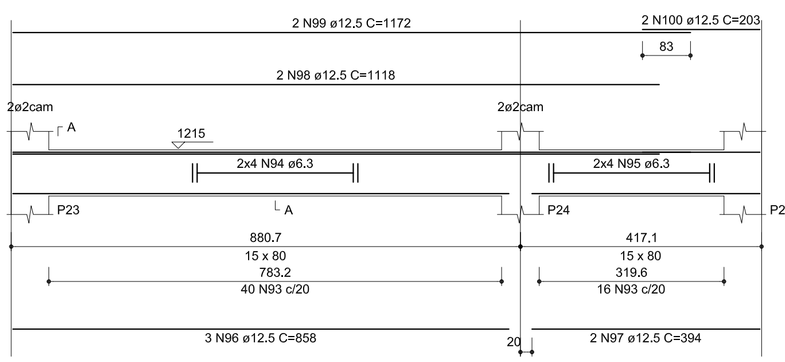
V9 (20 x 80)
ESC 1:75



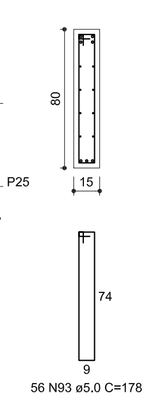
SEÇÃO A-A
ESC 1:25



V11 (15 x 80)
ESC 1:75



SEÇÃO A-A
ESC 1:25

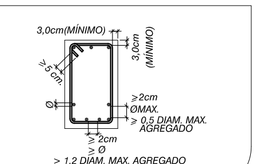


NOTAS

1º) O CONCRETO ADOTADO
Classe 30 (C30) - FCK30Mpa
Consumo mínimo de cimento = 280kg/m3
Relação água/cimento < 0,50

2º) VERIFICAR TODAS AS MEDIDAS NA OBRA

3º) CONSULTAR EM CASO DE DUVIDAS



2	REVISÃO GERAL	RAFAEL	05/09/2014
1	EMISSÃO INICIAL	RAFAEL	25/07/2014
Nº	Registro de Modificações	Visto	Data

Cliente:

Associação de Municípios do Nordeste do Estado de Santa Catarina
89.204-635 - JOINVILLE - SC - Rua Max Colin, 1843 - América - Fone: 0**47 433-3927
ASSESSORIA E COORDENADORIA DE PLANEJAMENTO URBANO, MUNICIPAL E REGIONAL
home page : www.amunesc.org.br
CREA SC 48.825-4

AMUNESC

TRABALHO CUSTEADO E REALIZADO ATRAVÉS DA ASSOCIAÇÃO DE MUNICÍPIOS DO NORDESTE DE SANTA CATARINA

Obra
PRONTO ATENDIMENTO 24 HORAS SUL - PA SUL

Endereço:
RUA JOÃO DA COSTA JR. ESQ. MONSENHOR G. - BAIRRO JOÃO COSTA, JOINVILLE/SC

Projeto:
PROJETO ESTRUTURAL

Data: JUL/2014
Escala: INDICADA
Desenho: RAFAEL A.F.
Coordenação: JULIANO

Conteúdo:
AMPLIAÇÃO PRINCIPAL - VIGAS TÉRREO

Prancha:
EST 11/28

Elaboração:
FITEJ - FUNDAÇÃO INSTITUTO TECNOLÓGICO DE JOINVILLE

JULIANO PERAZZOLI
ENGº CIVIL - CREA 055.296-7
LUCIO MARCELO DE MOURA
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