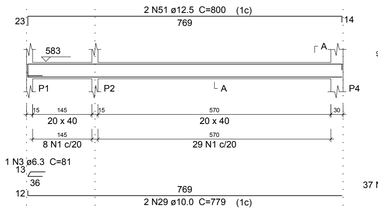
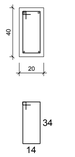
V1
ESC. 1:75



SEÇÃO A-A
ESC. 1:25



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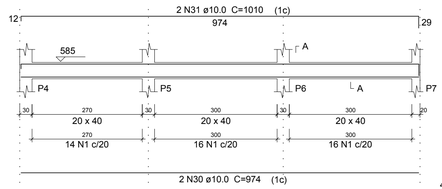
ESC. 1:75



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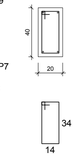

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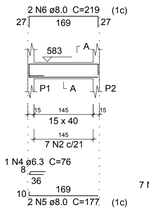
ESC. 1:75



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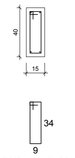

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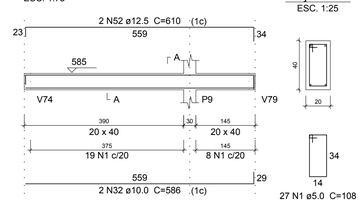
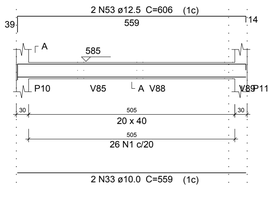


SEÇÃO A-A
ESC. 1:25

V5
ESC. 1:75



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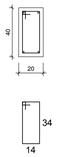

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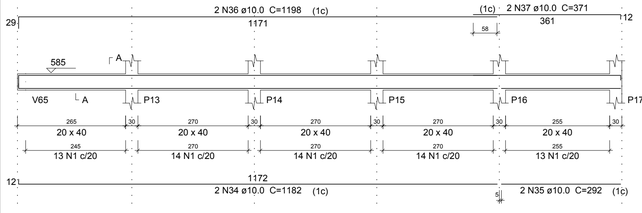

SEÇÃO A-A
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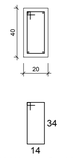

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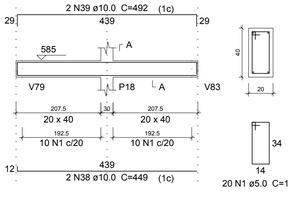
ESC. 1:75



SEÇÃO A-A
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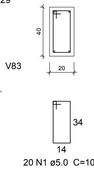

V8
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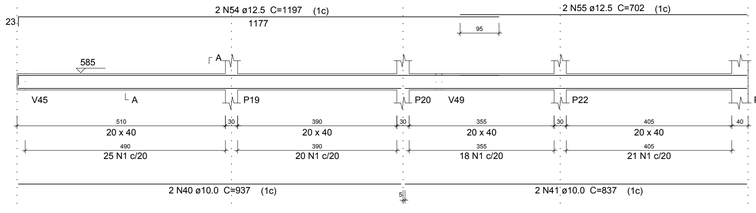

SEÇÃO A-A
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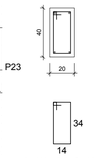
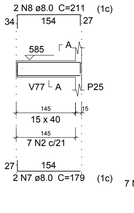


V9
ESC. 1:75



SEÇÃO A-A
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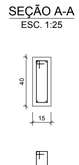

V10
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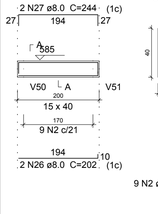

SEÇÃO A-A
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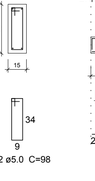

V11
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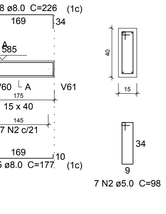

SEÇÃO A-A
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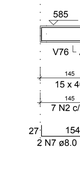

V12
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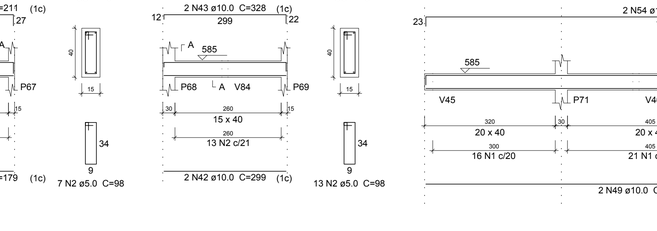
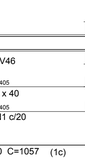


SEÇÃO A-A
ESC. 1:25



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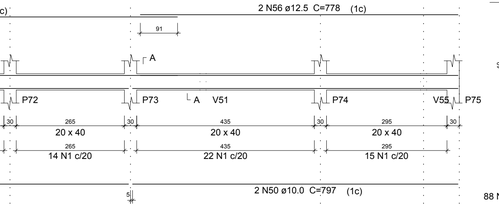
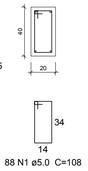


SEÇÃO A-A
ESC. 1:25



V14
ESC. 1:75

SEÇÃO A-A
ESC. 1:25

V15
ESC. 1:75

SEÇÃO A-A
ESC. 1:25

V16
ESC. 1:75

SEÇÃO A-A
ESC. 1:25

V17
ESC. 1:75

SEÇÃO A-A
ESC. 1:25

V18
ESC. 1:75

SEÇÃO A-A
ESC. 1:25

V19
ESC. 1:75

SEÇÃO A-A
ESC. 1:25

V20
ESC. 1:75

SEÇÃO A-A
ESC. 1:25

V21
ESC. 1:75

SEÇÃO A-A
ESC. 1:25

V22
ESC. 1:75

SEÇÃO A-A
ESC. 1:25

V23
ESC. 1:75

SEÇÃO A-A
ESC. 1:25

Relação do aço

V1	V2	V3
V4	V5	V6
V7	V8	V9
V10	V11	V12
V13	V14	V15
V16	V17	V18
V19	V20	V21
V22	V23	

AÇO	N	DIAM (mm)	QUANT (Barras)	UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	396	108	42768
	2	5.0	457	98	44786
CA50	3	6.3	1	81	81
	4	6.3	1	76	76
	5	8.0	4	177	708
	6	8.0	2	219	438
	7	8.0	4	179	716
	8	8.0	4	211	844
	9	8.0	4	304	1216
	10	8.0	2	1187	2374
	11	8.0	2	292	584
	12	8.0	2	1200	2400
	13	8.0	2	367	734
	14	8.0	4	1094	4376
	15	8.0	4	1144	4576
	16	8.0	2	820	1640
	17	8.0	2	445	890
	18	8.0	1	300	300
	19	8.0	2	1154	2308
	20	8.0	2	206	412
	21	8.0	2	1027	2054
	22	8.0	2	245	490
	23	8.0	2	1167	2334
	24	8.0	2	592	1184
	25	8.0	2	504	1008
	26	8.0	2	202	404
	27	8.0	2	244	488
	28	8.0	2	226	452
	29	10.0	2	779	1558
	30	10.0	2	974	1948
	31	10.0	2	1010	2020
	32	10.0	2	586	1172
	33	10.0	2	559	1118
	34	10.0	2	1182	2364
	35	10.0	2	292	584
	36	10.0	2	1198	2396
	37	10.0	2	371	742
	38	10.0	2	449	898
	39	10.0	2	492	984
	40	10.0	2	937	1874
	41	10.0	2	837	1674
	42	10.0	4	299	1196
	43	10.0	4	328	1312
	44	10.0	2	1154	2308
	45	10.0	2	225	450
	46	10.0	2	1198	2396
	47	10.0	2	675	1350
	48	10.0	2	533	1066
	49	10.0	2	1057	2114
	50	10.0	2	797	1594
	51	12.5	2	800	1600
	52	12.5	2	610	1220
	53	12.5	2	606	1212
	54	12.5	4	1197	4788
	55	12.5	2	702	1404
	56	12.5	2	778	1556

Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	6.3	1.6	0.4
	8.0	329.3	142.9
	10.0	331.2	224.6
	12.5	117.8	124.8
CA60	5.0	875.6	148.4

PESO TOTAL (kg)	
CA50	492.8
CA60	148.4

Volume de concreto (C-25) = 12.97 m³
Área de forma = 182.84 m²

PLAN engenharia

Equipe Técnica
Eng. Civil Dilnei de Freitas Jacinto
Eng. Civil Jacson Jeremias
Eng. Eletricista Edenir Vieira
Eng. Mecânico e Seg. do Trabalho Mario Cesar Osorio
Arq. Urbanista Andrea Patricia Martins de Souza
Acad. de Engenharia Civil Evair da Silva Borges
Acad. de Arq. e Urbanismo Vinicius Souza

E + Plan Engenharia Ltda Me - CNPJ:15.018.870/0001-65
Registro no CREA/SC: 127.622-8
www.emais.eng.br - contato@emais.eng.br - (48)3093-9350
Rua Najla Carone Goedert, nº 1080 - Sala 411 - Ed. City Office
Pagani - Palhoça - SC

Projeto

ESTRUTURAL

Obra
UBSF BAKITAS
Rua São Vicente S/N - Bairro Boa Vista - Joinville SC

Proprietário
Fundo Municipal de Saúde de Joinville
CNPJ:08184821/0001-37

Responsáveis Técnicos
Andrea P. Martins de Souza
Arquiteta e Urbanista
CAU: A30287-2

Edenir Vieira
Engenheiro Eletricista
Crea/SC:118.524-5

Dilnei de Freitas Jacinto
Engenheiro Civil
Crea/SC:122.825-5

Jacson Jeremias
Engenheiro Civil
Crea/SC:125.007-9

Conteúdo
Detalhamento de Vigas

Ref.	Data	Área	Escala	Folha
JOI-01	OUT/2016	862,69 m²	INDICADA	11/25

PROIBIDO CÓPIA OU REPRODUÇÃO DO PROJETO SEM PRÉVIA AUTORIZAÇÃO.
DIREITOS AUTORAIS RESERVADOS PELA LEI Nº 9.610-98