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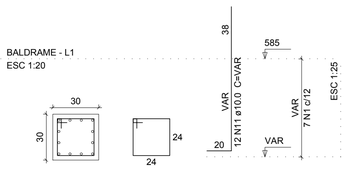

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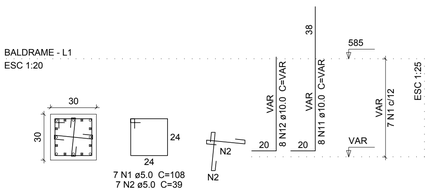

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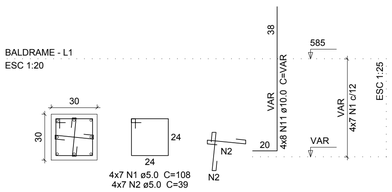

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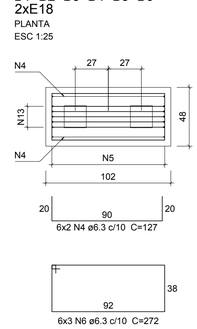
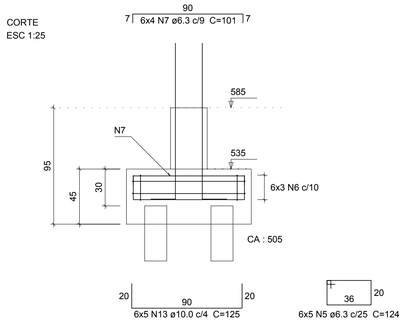
2xE18





Relação do aço

Baldrame:	B6		V1
			V2
			V3
			V4
			V5
Cinta de Amarração:	P1		5xP2
			V1
			V2
			V3
			V4
Fundo Reservatório:	6xP1		V1
			V2
			V3
			V4
			V5

AÇO	N	DIAM (mm)	QUANT (Barras)	UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	414	108	44712
	2	5.0	754	39	29406
	3	5.0	321	102	32742
CA50	4	6.3	12	127	1524
	5	6.3	30	124	3720
	6	6.3	18	272	4896
	7	6.3	24	101	2424
	8	6.3	6	107	642
	9	8.0	8	675	5400
	10	8.0	2	333	666
	11	10.0	52	VAR	VAR
	12	10.0	8	VAR	VAR
	13	10.0	30	125	3750
	14	10.0	6	675	4050
	15	10.0	8	399	3192
	16	10.0	4	347	1388
	17	10.0	48	388	18624
	18	10.0	48	413	19824
	19	10.0	2	333	666
	20	12.5	4	468	1872
	21	12.5	2	402	804
	22	12.5	4	697	2788
	23	12.5	8	404	3232
	24	12.5	4	457	1828
	25	12.5	9	458	4122
	26	12.5	2	723	1446
	27	12.5	1	360	360
	28	12.5	2	753	1506
	29	12.5	2	285	570
	30	12.5	2	249	498
	31	12.5	2	428	856
	32	12.5	4	462	1848

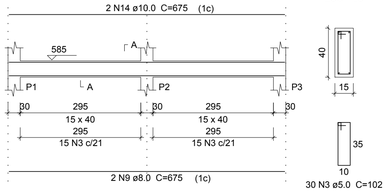
Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	6.3	132.1	35.5
	8.0	60.7	26.3
	10.0	593.3	402.3
	12.5	217.3	230.3
CA60	5.0	1068.6	181.2

PESO TOTAL (kg)	
CA50	694.5
CA60	181.2

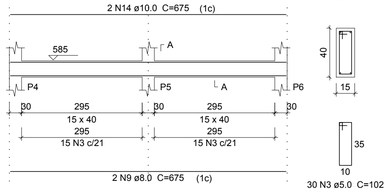
Volume de concreto (C-25) = 9.91 m³
Área de forma = 134.08 m²

V1
ESC 1:75



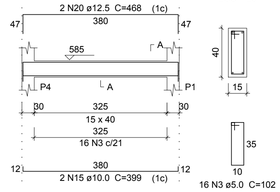
SEÇÃO A-A
ESC 1:25

V2
ESC 1:75



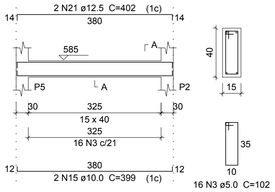
SEÇÃO A-A
ESC 1:25

V3
ESC 1:75



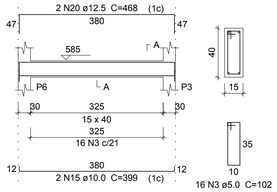
SEÇÃO A-A
ESC 1:25

V4
ESC 1:75



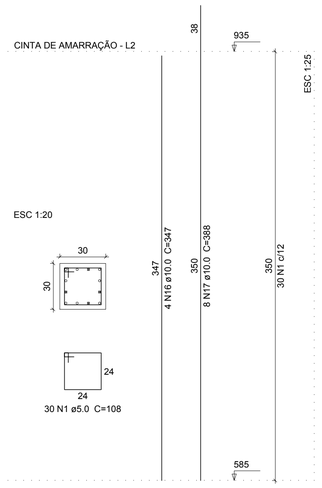
SEÇÃO A-A
ESC 1:25

V5
ESC 1:75



SEÇÃO A-A
ESC 1:25

P1



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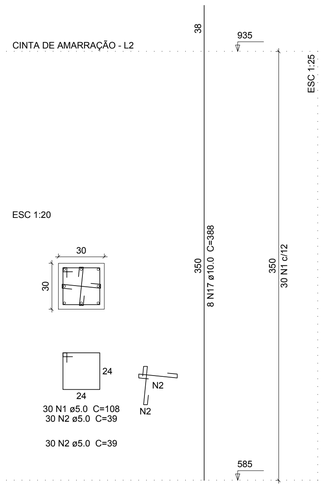
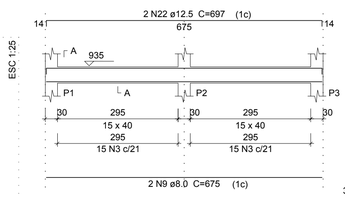
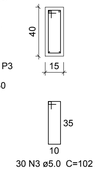


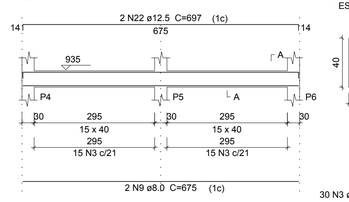
V1
ESC 1:75



SEÇÃO A-A
ESC 1:25



V2
ESC 1:75



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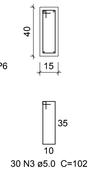
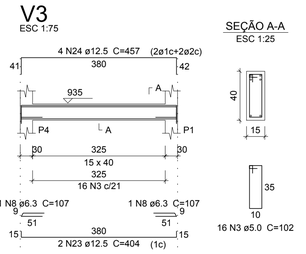
ESC 1:25

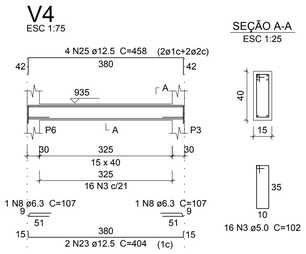


V3
ESC 1:75



SEÇÃO A-A
ESC 1:25

V4
ESC 1:75



SEÇÃO A-A
ESC 1:25

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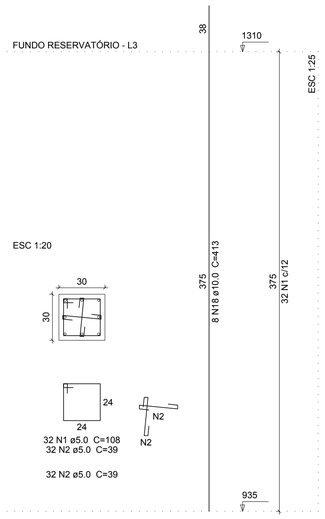
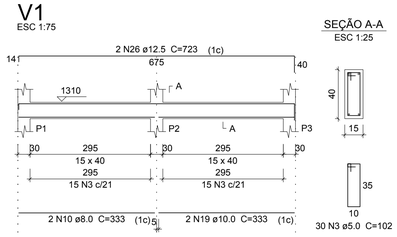
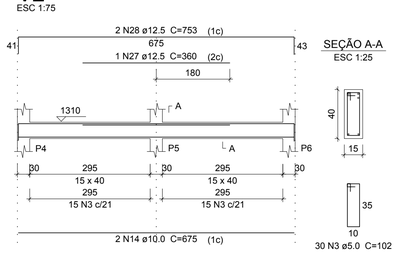


V1
ESC 1:75



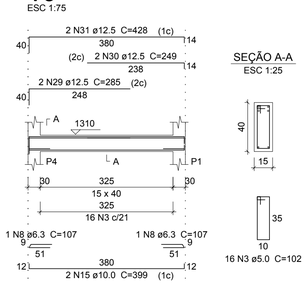
SEÇÃO A-A
ESC 1:25

V2
ESC 1:75



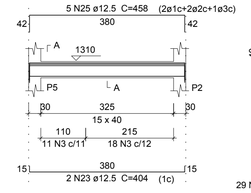
SEÇÃO A-A
ESC 1:25

V3
ESC 1:75

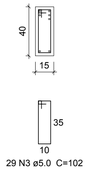


SEÇÃO A-A
ESC 1:25

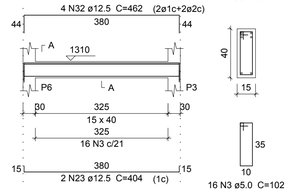
V4
ESC 1:75



SEÇÃO A-A
ESC 1:25



V5
ESC 1:75



SEÇÃO A-A
ESC 1:25

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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

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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

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

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CAU: A30287-2

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

Jacson Jeremias
Engenheiro Civil
Crea/SC:125.007-9

Conteúdo

Detalhamento das Fundações, pilares e vigas

Ref.	Data	Área	Escala	Folha
JOI-01	OUT/2016	862,69 m²	INDICADA	24/25

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