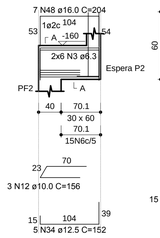
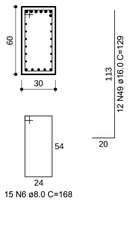
VIGAS SUBSOLO 02/02 (Nv. Ref. -1.60)

ESCALA 1:50

V19
ESC 1:50

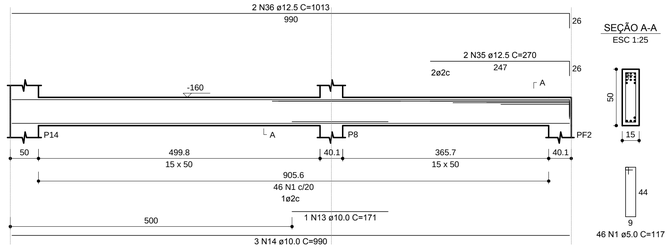


SEÇÃO A-A
ESC 1:25



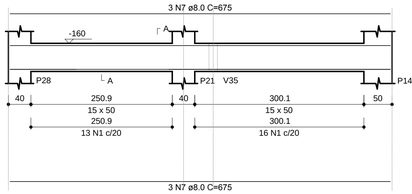
ESPERA P2
ESC 1:25

V20
ESC 1:50

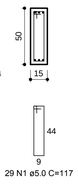


SEÇÃO A-A
ESC 1:25

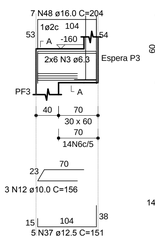
V21
ESC 1:50



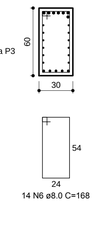
SEÇÃO A-A
ESC 1:25



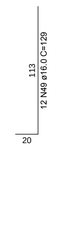
V23
ESC 1:50



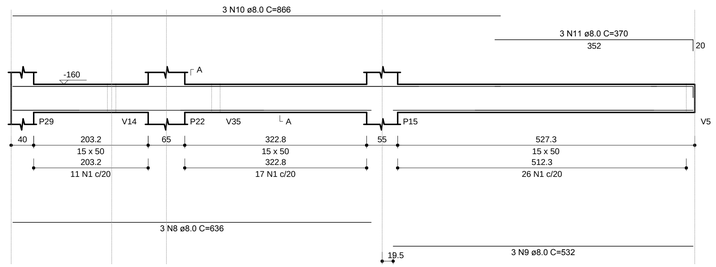
SEÇÃO A-A
ESC 1:25



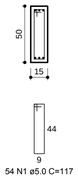
ESPERA P3
ESC 1:25



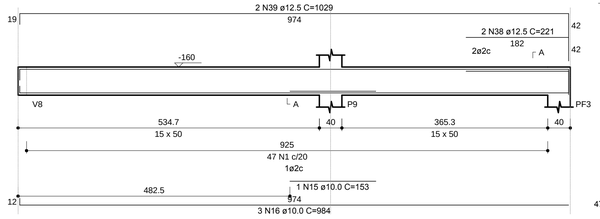
V22
ESC 1:50



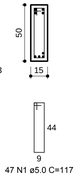
SEÇÃO A-A
ESC 1:25



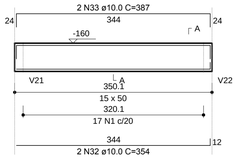
V24
ESC 1:50



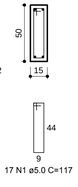
SEÇÃO A-A
ESC 1:25



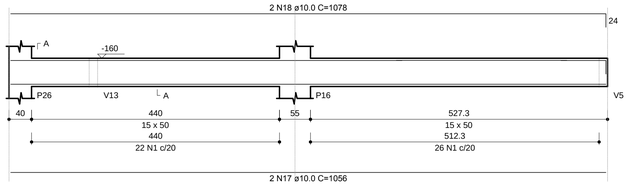
V35
ESC 1:50



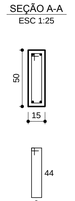
SEÇÃO A-A
ESC 1:25



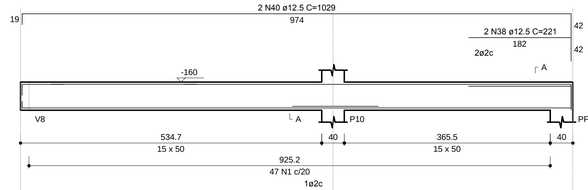
V25
ESC 1:50



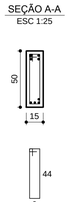
SEÇÃO A-A
ESC 1:25



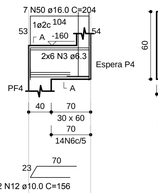
V26
ESC 1:50



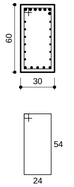
SEÇÃO A-A
ESC 1:25



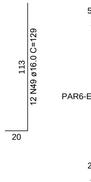
V27
ESC 1:50



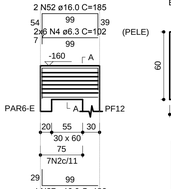
SEÇÃO A-A
ESC 1:25



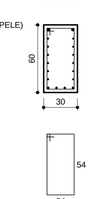
ESPERA P4
ESC 1:25



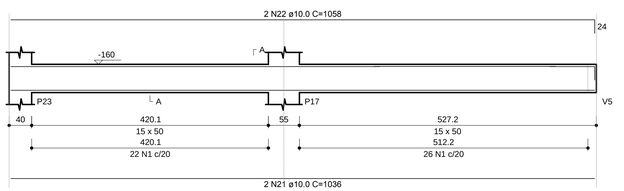
V32
ESC 1:50



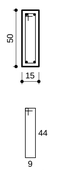
SEÇÃO A-A
ESC 1:25



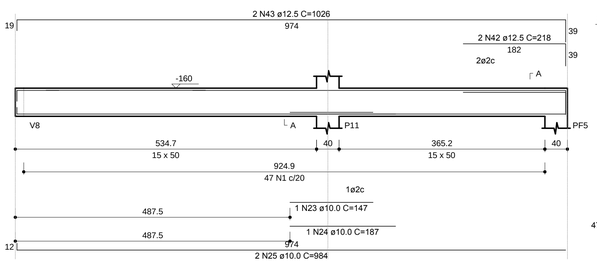
V28
ESC 1:50



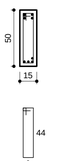
SEÇÃO A-A
ESC 1:25



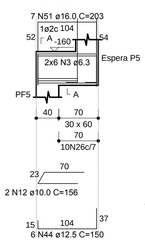
V29
ESC 1:50



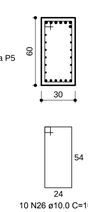
SEÇÃO A-A
ESC 1:25



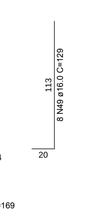
V30
ESC 1:50



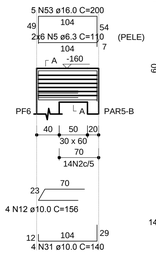
SEÇÃO A-A
ESC 1:25



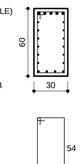
ESPERA P5
ESC 1:25



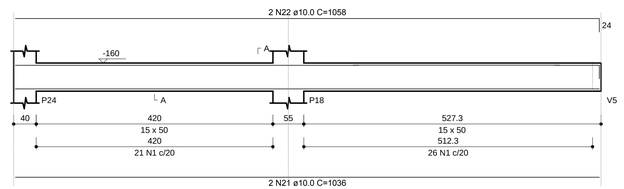
V34
ESC 1:50



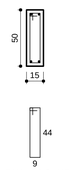
SEÇÃO A-A
ESC 1:25



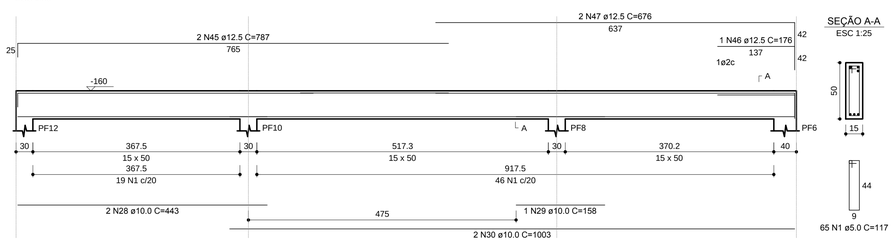
V31
ESC 1:50



SEÇÃO A-A
ESC 1:25



V33
ESC 1:50



SEÇÃO A-A
ESC 1:25

RELAÇÃO DO AÇO

V19	V20	V21
V22	V23	V24
V25	V26	V27
V28	V29	V30
V31	V32	V33
V34	V35	

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	495	117	57915
	2	5.0	21	167	3507
CA50	3	6.3	48	corr	4992
	4	6.3	12	102	1224
	5	6.3	12	110	1320
	6	8.0	43	168	7224
	7	8.0	6	675	4050
	8	8.0	3	636	1908
	9	8.0	3	532	1596
	10	8.0	3	866	2598
	11	8.0	3	370	1110
	12	10.0	14	156	2184
	13	10.0	1	171	171
	14	10.0	3	990	2970
	15	10.0	1	153	153
	16	10.0	3	984	2952
	17	10.0	2	1056	2112
	18	10.0	2	1078	2156
	19	10.0	1	153	153
	20	10.0	3	984	2952
	21	10.0	4	1036	4144
	22	10.0	4	1058	4232
	23	10.0	1	147	147
	24	10.0	1	187	187
	25	10.0	2	984	1968
	26	10.0	10	169	1690
	27	10.0	4	126	504
	28	10.0	2	443	886
	29	10.0	1	158	158
	30	10.0	2	1003	2006
	31	10.0	4	140	560
	32	10.0	2	354	708
	33	10.0	2	387	774
	34	12.5	5	152	760
	35	12.5	2	270	540
	36	12.5	2	1013	2026
	37	12.5	5	151	755
	38	12.5	4	221	884
	39	12.5	2	1029	2058
	40	12.5	2	1029	2058
	41	12.5	5	153	765
	42	12.5	2	218	436
	43	12.5	2	1026	2052
	44	12.5	6	150	900
	45	12.5	2	787	1574
	46	12.5	1	176	176
	47	12.5	2	676	1352
	48	16.0	14	204	2856
	49	16.0	44	129	5676
	50	16.0	7	204	1428
	51	16.0	7	203	1421
	52	16.0	2	185	370
	53	16.0	5	200	1000

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	6.3	75.4	20.3
	8.0	184.9	80.2
	10.0	337.7	229
	12.5	163.4	173.1
	16.0	127.5	221.4
CA60	5.0	614.2	104.1

PESO TOTAL (kg)	
CA50	724
CA60	104.1

Volume de concreto (C-30) = 9.21 m³
Área de forma = 133.02 m²

RESPONSÁVEL TÉCNICO

PROPRIETÁRIO

DATA	REVISÃO	DISCRIMINAÇÃO
05/2018	REV002	RECUO DA RAMPA E TORRE DA ESCADA / ELEVADOR
05/2018	REV001	ALTERAÇÃO FUNDAÇÃO / ESTACAS
05/2018	REV000	PARTIDO INICIAL

PROPRIETÁRIO
INTERBLU

OBRA/LOCAL
RUA 2300
CENTRO
BALNEÁRIO CAMBORIU - SC

TÍTULO
VIGAS SUBSOLO 02/02 (Nv. Ref. -1.60)

RESPONSÁVEL TÉCNICO
ANDRÉ VINÍCIUS PAVANELLO
ENG CIVIL
CREA/SC 136749-3

GUSTAVO ZIMMERMANN, 10205 - ITOUPAVA CENTRAL - BLUMENAU/SC
FONE (047)991288288 e-mail:otto.engenharia@hotmail.com

funcional ARQUITETURA
ASSESSORIA E DESENVOLVIMENTO DE SOLUÇÕES ARQUITETÔNICAS

OTTO Engenharia

PROJETO EST
ESCALA IND.
DATA 28/05/2018

EST 08/37

É mandatório o perfeito entendimento dos projetos antes de sua execução, em caso de dúvida consulte o autor.
DIREITOS AUTORAIS RESERVADOS - Decreto Federal nº23.569 de 11/12/33. - Lei Federal nº5.194 de 24/12/66. - Lei Federal nº5.988/73 e Lei Federal nº9.610/98.
(Regulamentam o Direito Autoral) - Resolução nº205 de 30/12/70 do CONFEA. (Ética Profissional) - Resolução nº218 de 29/06/73 do CONFEA (Atribuições Profissionais).

RECICLE