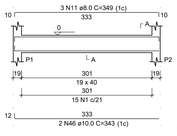
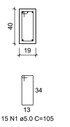
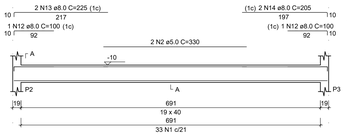
V1
ESC 1:50



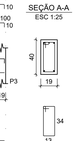
SEÇÃO A-A
ESC 1:25



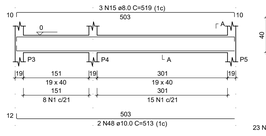
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ESC 1:50



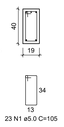
SEÇÃO A-A
ESC 1:25



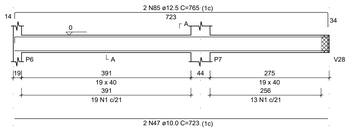
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ESC 1:50



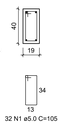
SEÇÃO A-A
ESC 1:25



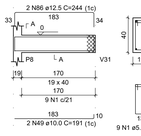
V4
ESC 1:50



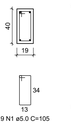
SEÇÃO A-A
ESC 1:25



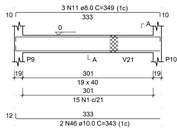
V5
ESC 1:50



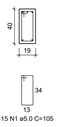
SEÇÃO A-A
ESC 1:25



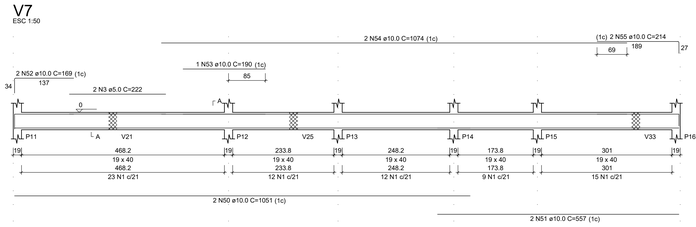
V6
ESC 1:50



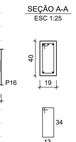
SEÇÃO A-A
ESC 1:25



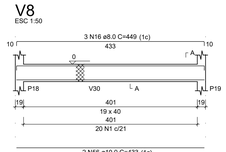
V7
ESC 1:50



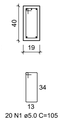
SEÇÃO A-A
ESC 1:25



V8
ESC 1:50



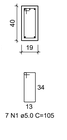
SEÇÃO A-A
ESC 1:25



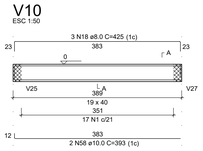
V9
ESC 1:50



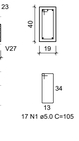
SEÇÃO A-A
ESC 1:25



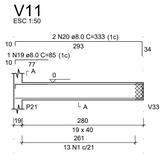
V10
ESC 1:50



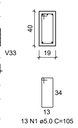
SEÇÃO A-A
ESC 1:25



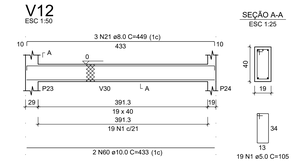
V11
ESC 1:50



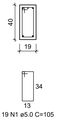
SEÇÃO A-A
ESC 1:25



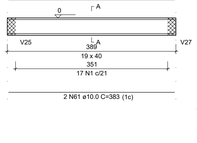
V12
ESC 1:50



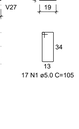
SEÇÃO A-A
ESC 1:25



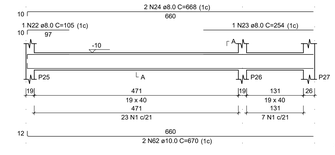
V13
ESC 1:50



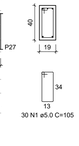
SEÇÃO A-A
ESC 1:25



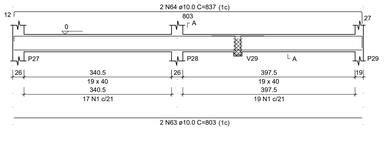
V14
ESC 1:50



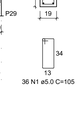
SEÇÃO A-A
ESC 1:25



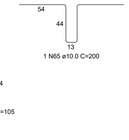
V15
ESC 1:50



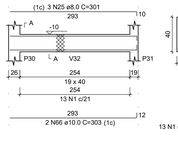
SEÇÃO A-A
ESC 1:25



SUSPENSÃO V29
ESC 1:25



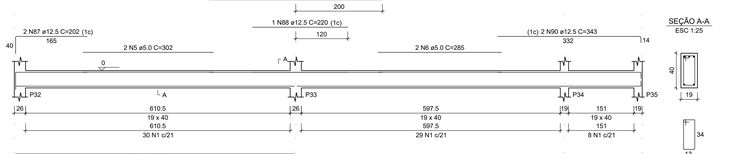
V16
ESC 1:50



SEÇÃO A-A
ESC 1:25

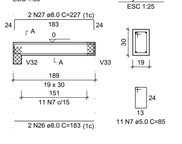


V17
ESC 1:50



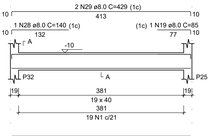
SEÇÃO A-A
ESC 1:25

V18
ESC 1:50



SEÇÃO A-A
ESC 1:25

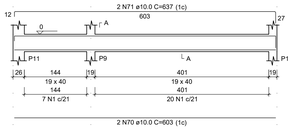
V19
ESC 1:50



SEÇÃO A-A
ESC 1:25



V20
ESC 1:50



SEÇÃO A-A
ESC 1:25

V21
ESC 1:50

SEÇÃO A-A
ESC 1:25

V22
ESC 1:50

SEÇÃO A-A
ESC 1:25

V23
ESC 1:50

SEÇÃO A-A
ESC 1:25

V24
ESC 1:50

SEÇÃO A-A
ESC 1:25

V25
ESC 1:50

SEÇÃO A-A
ESC 1:25

SUSPENSÃO V10
ESC 1:25

V26
ESC 1:50

SEÇÃO A-A
ESC 1:25

V27
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

V31
ESC 1:50

SEÇÃO A-A
ESC 1:25

V32
ESC 1:50

SEÇÃO A-A
ESC 1:25

V33
ESC 1:50

SEÇÃO A-A
ESC 1:25

SEÇÃO B-B
ESC 1:25

V34
ESC 1:50

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	V24
V25	V26	V27
V28	V29	V30
V31	V32	V33
V34		

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	856	105	89880
	2	5.0	2	330	660
	3	5.0	2	222	444
	4	5.0	2	383	766
	5	5.0	2	302	604
	6	5.0	2	285	570
	7	5.0	20	85	1700
	8	5.0	2	183	366
	9	5.0	2	305	610
	10	5.0	2	253	506
CA50	11	8.0	6	349	2094
	12	8.0	2	100	200
	13	8.0	2	225	450
	14	8.0	2	205	410
	15	8.0	3	519	1557
	16	8.0	6	449	2694
	17	8.0	3	192	576
	18	8.0	3	425	1275
	19	8.0	2	85	170
	20	8.0	2	333	666
	21	8.0	3	449	1347
	22	8.0	3	105	315
	23	8.0	1	254	254
	24	8.0	2	668	1336
	25	8.0	3	301	903
	26	8.0	2	183	366
	27	8.0	2	227	454
	28	8.0	1	140	140
	29	8.0	2	429	858
	30	8.0	1	155	155
	31	8.0	5	1009	5045
	32	8.0	3	446	1338
	33	8.0	1	399	399
	34	8.0	1	800	800
	35	8.0	2	1048	2096
	36	8.0	1	125	125
	37	8.0	1	127	127
	38	8.0	2	466	932
	39	8.0	3	249	747
	40	8.0	1	110	110
	41	8.0	2	223	446
	42	8.0	1	190	190
	43	8.0	2	417	834
	44	8.0	3	428	1284
	45	8.0	2	136	272
	46	10.0	4	343	1372
	47	10.0	4	723	2892
	48	10.0	2	513	1026
	49	10.0	2	191	382
	50	10.0	2	1051	2102
	51	10.0	2	557	1114
	52	10.0	2	169	338
	53	10.0	1	190	190
	54	10.0	2	1074	2148
	55	10.0	2	214	428
	56	10.0	2	182	364
	57	10.0	2	352	704
	58	10.0	2	393	786
	59	10.0	2	293	586
	60	10.0	2	433	866
	61	10.0	2	383	766
	62	10.0	2	670	1340
	63	10.0	2	803	1606
	64	10.0	2	837	1674
	65	10.0	1	200	200
	66	10.0	2	303	606
	67	10.0	2	644	1288
	68	10.0	2	804	1608
	69	10.0	4	413	1652
	70	10.0	6	603	3618
	71	10.0	2	637	1274
	72	10.0	4	183	732
	73	10.0	2	452	904
	74	10.0	2	1003	2006
	75	10.0	2	993	1986
	76	10.0	1	180	180
	77	10.0	2	1012	2024
	78	10.0	2	252	504
	79	10.0	2	361	722
	80	10.0	2	372	744
	81	10.0	2	1103	2206
	82	10.0	2	327	654
	83	10.0	2	1199	2398
	84	10.0	2	433	866
	85	12.5	2	765	1530
	86	12.5	2	244	488
	87	12.5	2	202	404
	88	12.5	1	220	220
	89	12.5	2	400	800
	90	12.5	2	343	686
	91	12.5	2	193	386
	92	12.5	2	188	376
	93	12.5	2	224	448
	94	12.5	2	226	452

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	8.0	309.7	134.4
	10.0	478.8	324.7
	12.5	57.9	61.4
CA60	5.0	961.1	162.9
PESO TOTAL (kg)			
CA50	520.5		
CA60	162.9		

Volume de concreto (C-25) = 13.36 m³
Área de forma = 173.97 m²

TRMUNCHEN ENGENHARIA
trmunchen@outlook.com (51) 9 9509 6182

OBRA: NOVA SEDE DEFESA CIVÍL E CORPO DE BOMBEIROS

ÁREA A CONSTRUIR: 644,46 m²

LOCAL: Rua Firmino Britz, S/N
Centro - Feliz

EQUIPE TÉCNICA: TRMUNCHEN ENGENHARIA

PROPRIETÁRIO: MUNICÍPIO DE FELIZ
CNPJ: 87.838.330/0001-39

RESP. TÉCNICO - ENGENHEIRO CIVIL: TIAGO RODRIGO MÜNCHEN
CREA/RS: 251585

CONTEÚDO: VIGAS BALDRAME

PROJETO: PROJETO ESTRUTURAL

ESCALA:	DESENHISTA:	DATA:	FOLHA:
INDICADA	TIAGO RODRIGO MÜNCHEN	JUL/2026	05/ 18

DIREITOS AUTORAIS RESERVADOS. PROIBIDA A REPRODUÇÃO TOTAL OU PARCIAL.