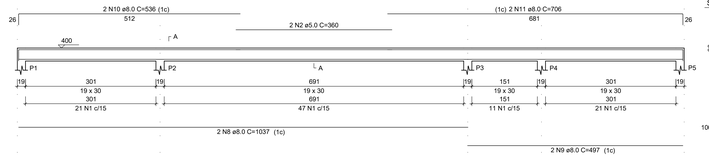
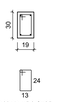
V201
ESC 1:50

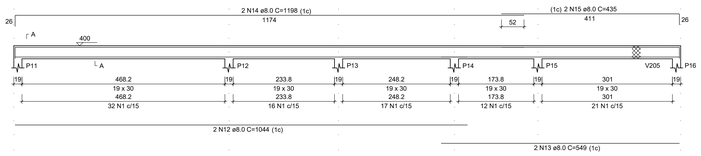


SEÇÃO A-A
ESC 1:25

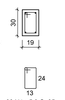


100 N1 ø5.0 C=85

V202
ESC 1:50

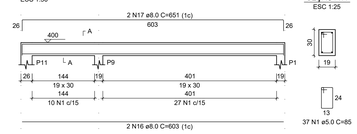


SEÇÃO A-A
ESC 1:25



98 N1 ø5.0 C=85

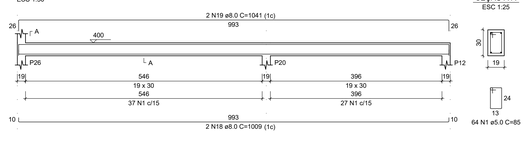
V203
ESC 1:50



SEÇÃO A-A
ESC 1:25

37 N1 ø5.0 C=85

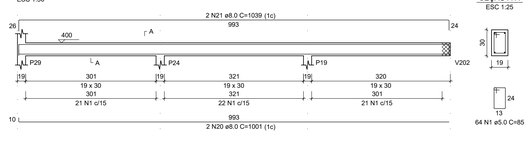
V204
ESC 1:50



SEÇÃO A-A
ESC 1:25

64 N1 ø5.0 C=85

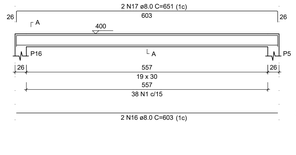
V205
ESC 1:50



SEÇÃO A-A
ESC 1:25

64 N1 ø5.0 C=85

V206
ESC 1:50

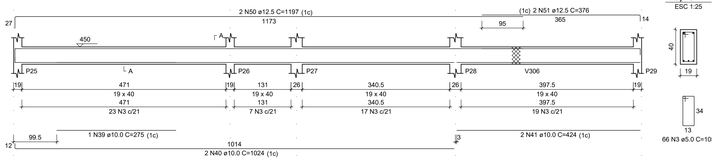


SEÇÃO A-A
ESC 1:25



38 N1 ø5.0 C=85

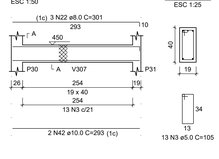
V301
ESC 1:50



SEÇÃO A-A
ESC 1:25

66 N3 ø5.0 C=105

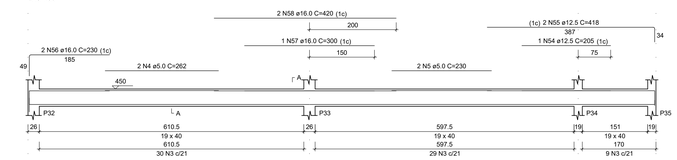
V302
ESC 1:50



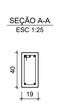
SEÇÃO A-A
ESC 1:25

13 N3 ø5.0 C=105

V303
ESC 1:50

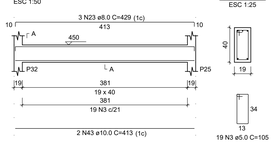


SEÇÃO A-A
ESC 1:25



68 N3 ø5.0 C=105

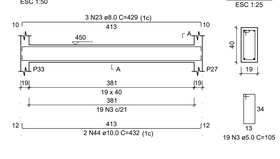
V304
ESC 1:50



SEÇÃO A-A
ESC 1:25

19 N3 ø5.0 C=105

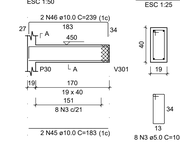
V305
ESC 1:50



SEÇÃO A-A
ESC 1:25

19 N3 ø5.0 C=105

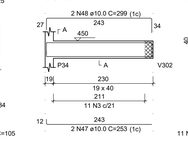
V306
ESC 1:50



SEÇÃO A-A
ESC 1:25

8 N3 ø5.0 C=105

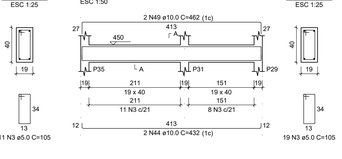
V307
ESC 1:50



SEÇÃO A-A
ESC 1:25

11 N3 ø5.0 C=105

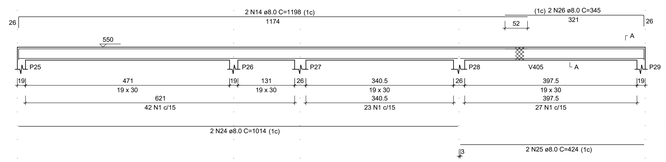
V308
ESC 1:50



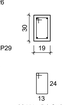
SEÇÃO A-A
ESC 1:25

19 N3 ø5.0 C=105

V401
ESC 1:50

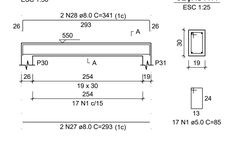


SEÇÃO A-A
ESC 1:25



92 N1 ø5.0 C=85

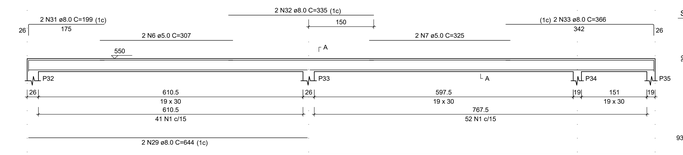
V402
ESC 1:50



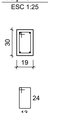
SEÇÃO A-A
ESC 1:25

17 N1 ø5.0 C=85

V403
ESC 1:50

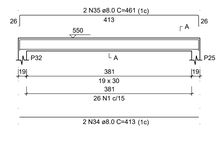


SEÇÃO A-A
ESC 1:25

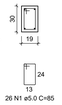


93 N1 ø5.0 C=85

V404
ESC 1:50

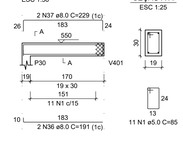


SEÇÃO A-A
ESC 1:25



26 N1 ø5.0 C=85

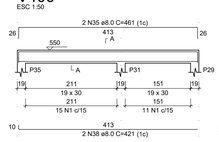
V405
ESC 1:50



SEÇÃO A-A
ESC 1:25

11 N1 ø5.0 C=85

V406
ESC 1:50



SEÇÃO A-A
ESC 1:25



26 N1 ø5.0 C=85

RELAÇÃO DO AÇO

V201-L3	V202-L3	V203-L3
V204-L3	V205-L3	V206-L3
V301-L4	V302-L4	V303-L4
V304-L4	V305-L4	V306-L4
V307-L4	V308-L4	V401-L5
V402-L5	V403-L5	V404-L5
V405-L5	V406-L5	

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	666	85	56610
	2	5.0	2	360	720
	3	5.0	223	105	23415
	4	5.0	2	262	524
	5	5.0	2	230	460
	6	5.0	2	307	614
	7	5.0	2	325	650
CA50	8	8.0	2	1037	2074
	9	8.0	2	497	994
	10	8.0	2	536	1072
	11	8.0	2	706	1412
	12	8.0	2	1044	2088
	13	8.0	2	549	1098
	14	8.0	4	1198	4792
	15	8.0	2	435	870
	16	8.0	4	603	2412
	17	8.0	4	651	2604
	18	8.0	2	1009	2018
	19	8.0	2	1041	2082
	20	8.0	2	1001	2002
	21	8.0	2	1039	2078
	22	8.0	3	301	903
	23	8.0	6	429	2574
	24	8.0	2	1014	2028
	25	8.0	2	424	848
	26	8.0	2	345	690
	27	8.0	2	293	586
	28	8.0	2	341	682
	29	8.0	2	644	1288
	30	8.0	2	794	1588
	31	8.0	2	199	398
	32	8.0	2	335	670
	33	8.0	2	366	732
	34	8.0	2	413	826
	35	8.0	4	461	1844
	36	8.0	2	191	382
	37	8.0	2	229	458
	38	8.0	2	421	842
	39	10.0	1	275	275
	40	10.0	2	1024	2048
	41	10.0	2	424	848
	42	10.0	2	293	586
	43	10.0	2	413	826
	44	10.0	4	432	1728
	45	10.0	2	183	366
	46	10.0	2	239	478
	47	10.0	2	253	506
	48	10.0	2	299	598
	49	10.0	2	462	924
	50	12.5	2	1197	2394
	51	12.5	2	376	752
	52	12.5	2	658	1316
	53	12.5	2	803	1606
	54	12.5	1	205	205
	55	12.5	2	418	836
	56	16.0	2	230	460
	57	16.0	1	300	300
	58	16.0	2	420	840

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	8.0	449.4	195
	10.0	91.8	62.3
	12.5	71.1	75.3
	16.0	16	27.8
CA60	5.0	829.9	140.7

PESO TOTAL (kg)	
CA50	360.4
CA60	140.7

Volume de concreto (C-25) = 8.91 m³
Área de forma = 113.68 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 PLATIBANDAS

PROJETO:
PROJETO ESTRUTURAL

ESCALA:
INDICADA

DESENHISTA:
TIAGO RODRIGO MÜNCHEN

DATA:
JUL/2026

FOLHA:
08/ 18

DIREITOS AUTORAIS RESERVADOS. PROIBIDA A REPRODUÇÃO TOTAL OU PARCIAL.