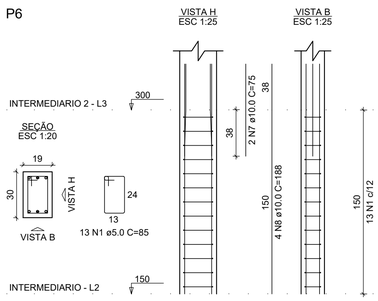
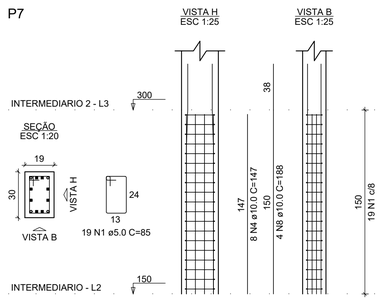
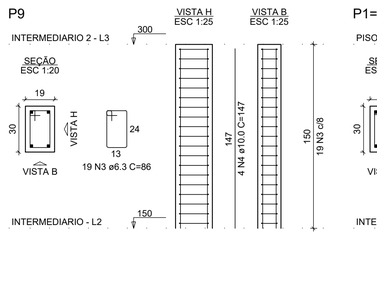
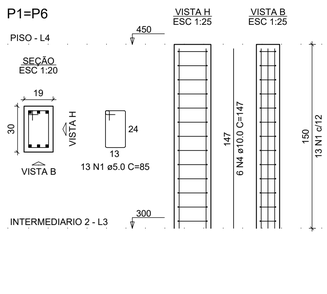
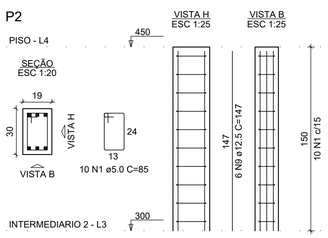


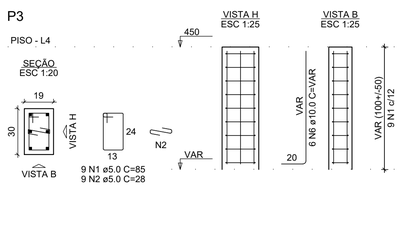


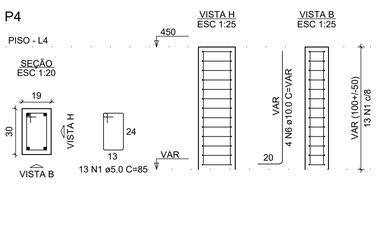


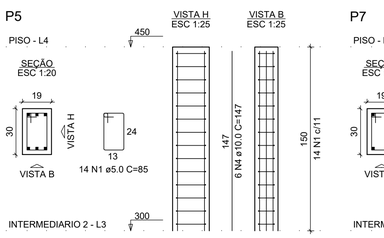


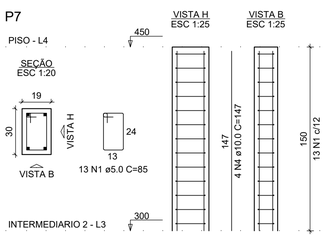












RELAÇÃO DO AÇO

2xP1-L4	2xP1-L3	P2-L4
P2-L3	P3-L4	P4-L4
P5-L4	P6-L3	P6-L2
P7-L4	P7-L3	P7-L2
P7-L1	P8-L2	P8-L1
P9-L3	P9-L2	2xP9-L1
P10-L2	P11-L1	

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	243	85	20655
	2	5.0	31	28	868
CA50	3	6.3	38	86	3268
	4	10.0	52	147	7644
	5	10.0	46	VAR	VAR
	6	10.0	14	VAR	VAR
	7	10.0	6	75	450
	8	10.0	20	188	3760
	9	12.5	6	147	882
	10	12.5	6	VAR	VAR

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	6.3	32.7	8.8
	10.0	203.9	138.3
	12.5	18.4	19.5
CA60	5.0	215.2	36.5

PESO TOTAL (kg)	
CA50	166.6
CA60	36.5

Volume de concreto (C-25) = 1.44 m³
Área de forma = 24.70 m²

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

OBRA:
NOVA SEDE DEFESA CIVÍL E CORPO DE BOMBEIROS

ÁREA À 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:
MURO LATERAL PILARES

PROJETO
PROJETO ESTRUTURAL

ESCALA:	DESENHISTA:	DATA:	FOLHA:
INDICADA	TIAGO RODRIGO MÜNCHEN	JUL/2026	16/ 18

DIREITOS AUTORAIS RESERVADOS. PROIBIDA A REPRODUÇÃO TOTAL OU PARCIAL.