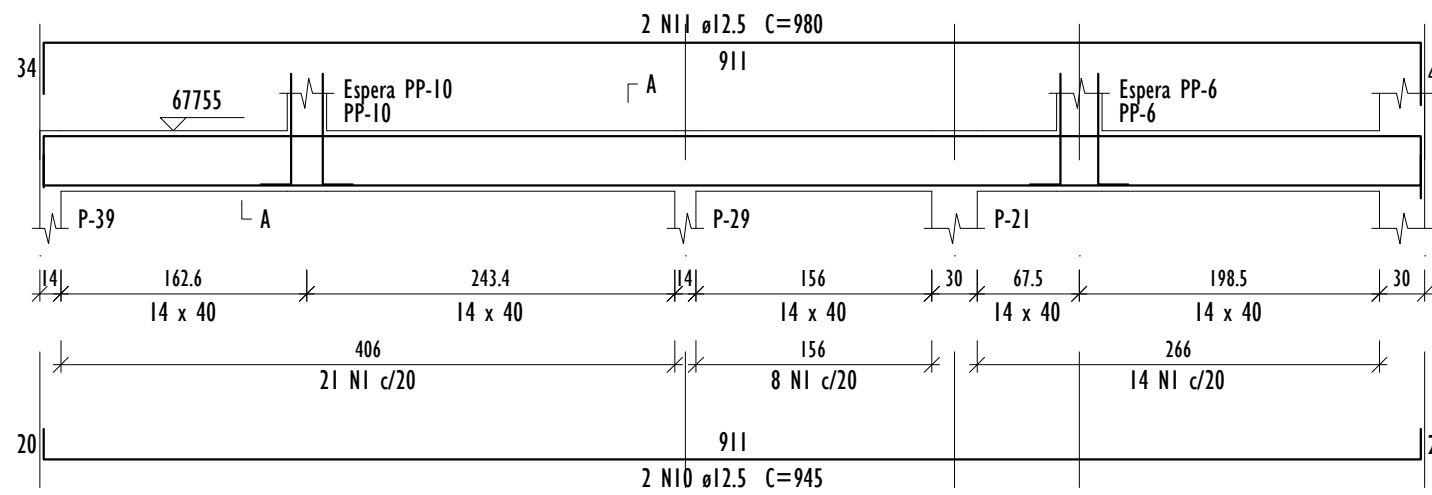


PROJETO ESTRUTURAL - UBS VALADARES

V-335 (14 x 40)

ESC. 1:50

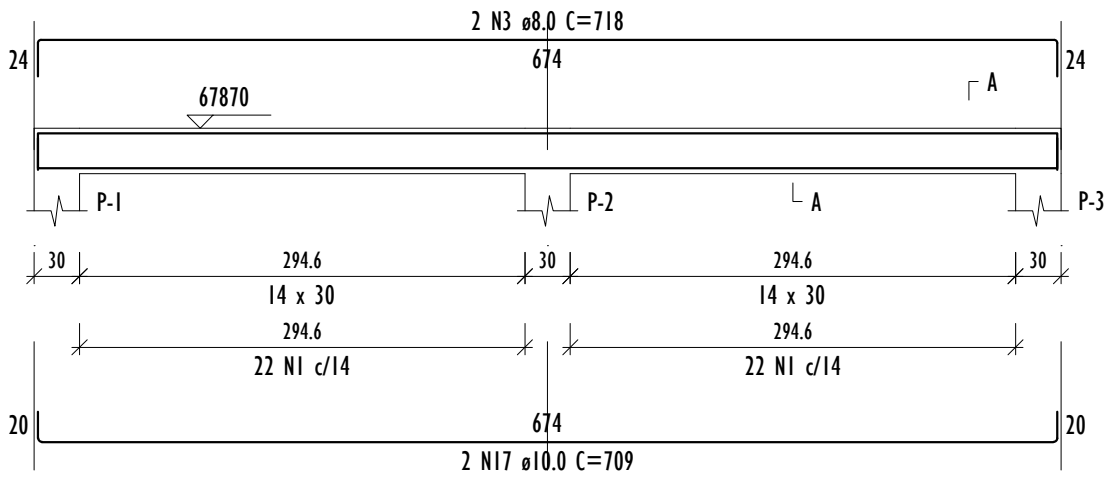


DETALHAMENTO DE VIGAS (NÍVEL 677.55)

ESCALA INDICADA

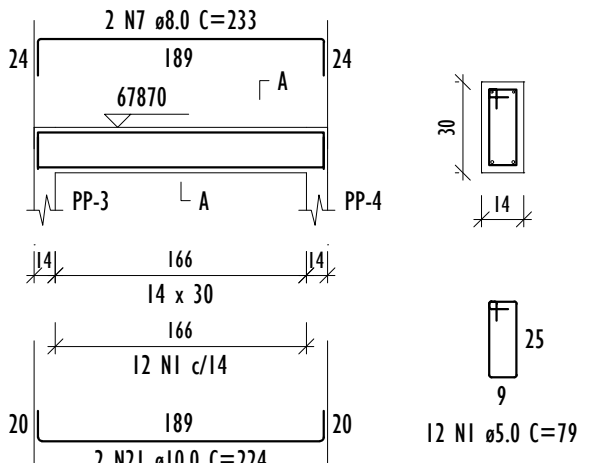
V-401 (14 x 30)

ESC. 1:50



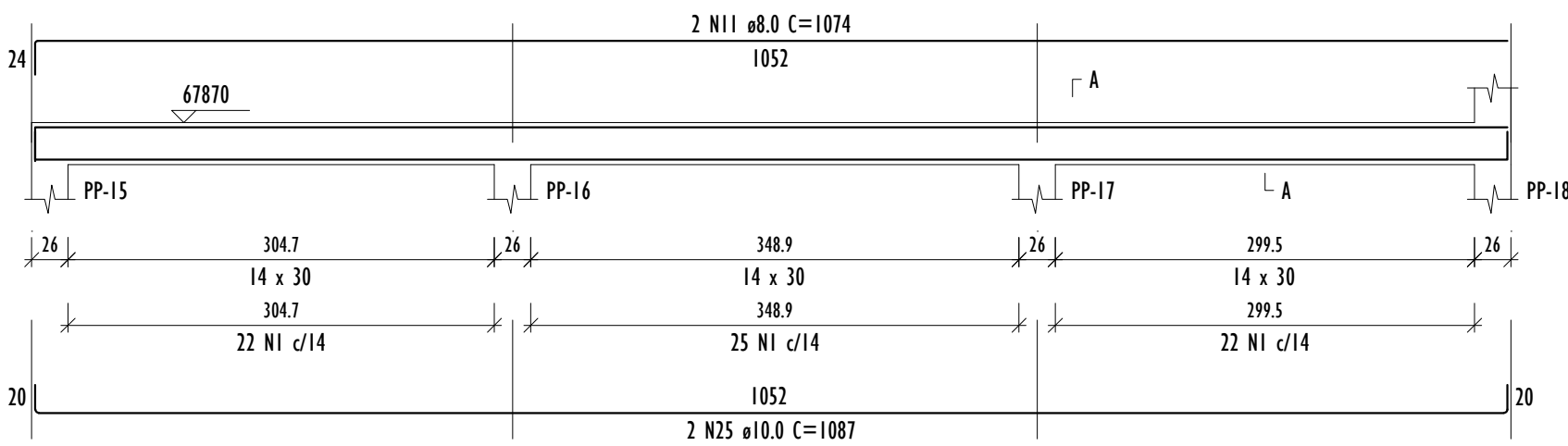
V-405 (14 x 30)

ESC. 1:50



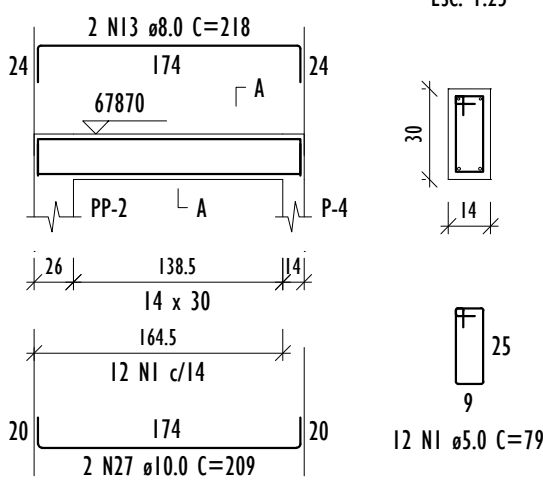
V-411 (14 x 30)

ESC. 1:50



V-415 (14 x 30)

ESC. 1:50

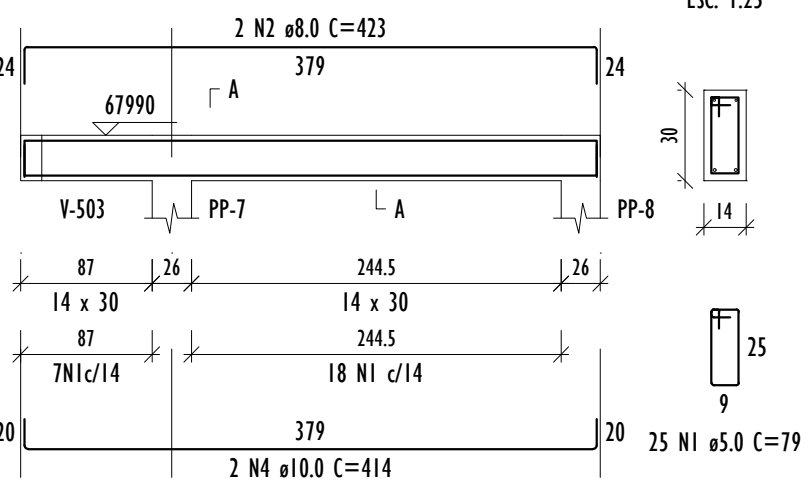


DETALHAMENTO DE VIGAS (NÍVEL 678.70)

ESCALA INDICADA

V-501 (14 x 30)

ESC. 1:50

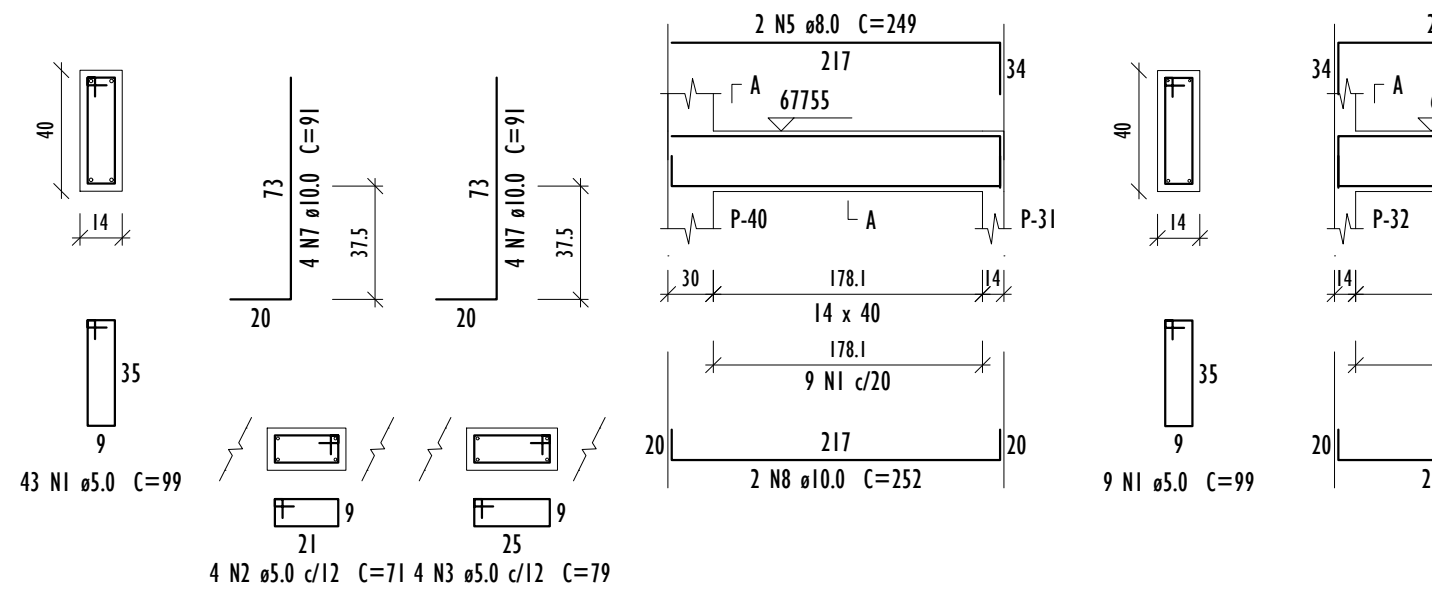


DETALHAMENTO DE VIGAS (NÍVEL 679.90)

ESCALA INDICADA

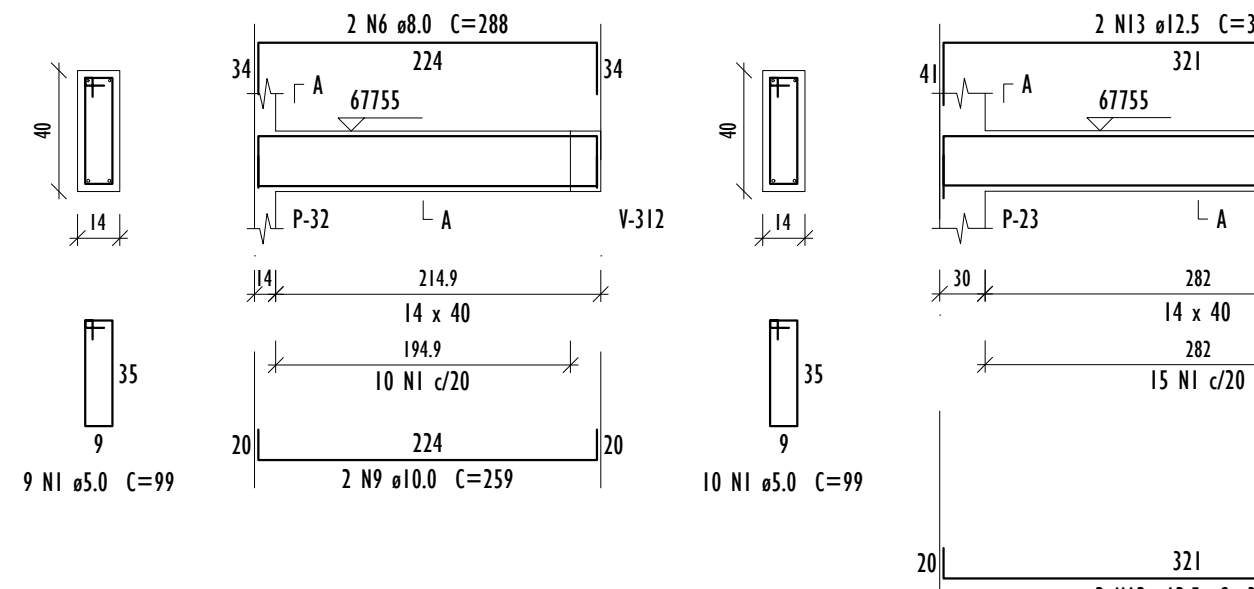
V-336 (14 x 40)

ESC. 1:50



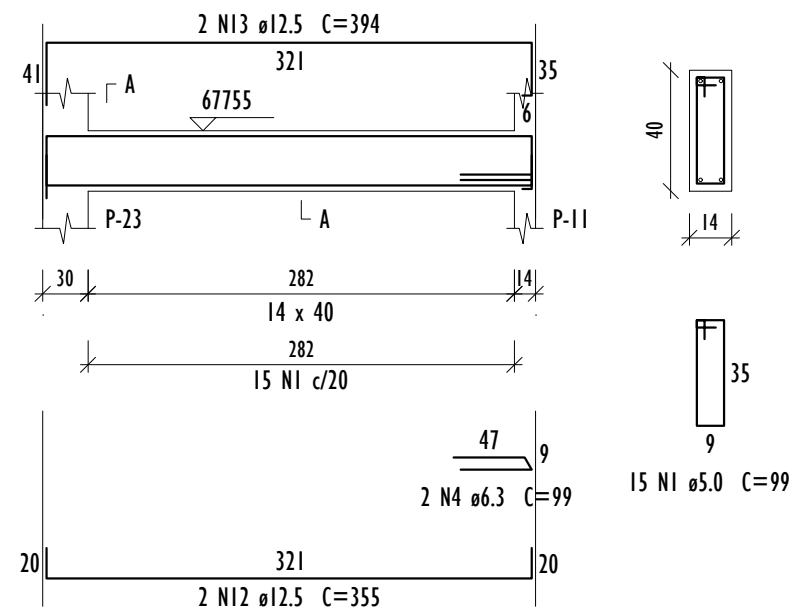
V-337 (14 x 40)

ESC. 1:50



V-338 (14 x 40)

ESC. 1:50



Relação do aço

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
V-335	1	5.0	77	99	7623
V-338	2	5.0	4	71	284
	3	5.0	4	79	316
	4	6.3	2	99	198
	5	8.0	2	249	498
	6	8.0	2	288	576
	7	10.0	8	91	728
	8	10.0	2	252	504
	9	10.0	2	259	518
	10	12.5	2	945	1890
	11	12.5	2	980	1960
	12	12.5	2	355	710
	13	12.5	2	394	788

Resumo do aço

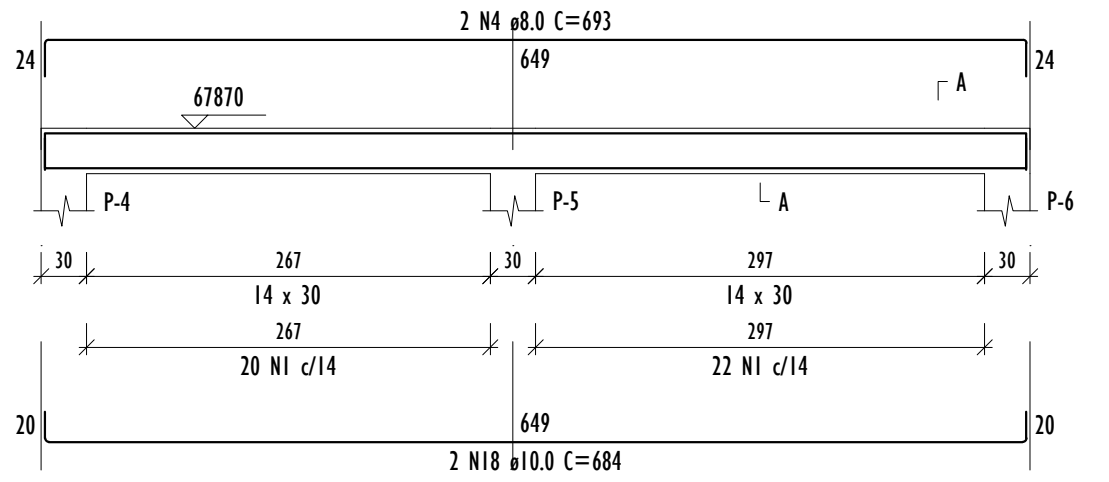
AÇO	DIAM (mm)	C.TOTAL (m)	QUANT (Barras)	PESO (kg)
CASO	6.3	2	1	0.5
	8.0	10.8	1	4.2
	10.0	17.5	2	10.8
	12.5	53.5	5	51.5
	5.0	82.3	7	12.7

PESO TOTAL (kg)

Volume de concreto (C-30) = 0.84 m³
Área de forma = 11.57 m²

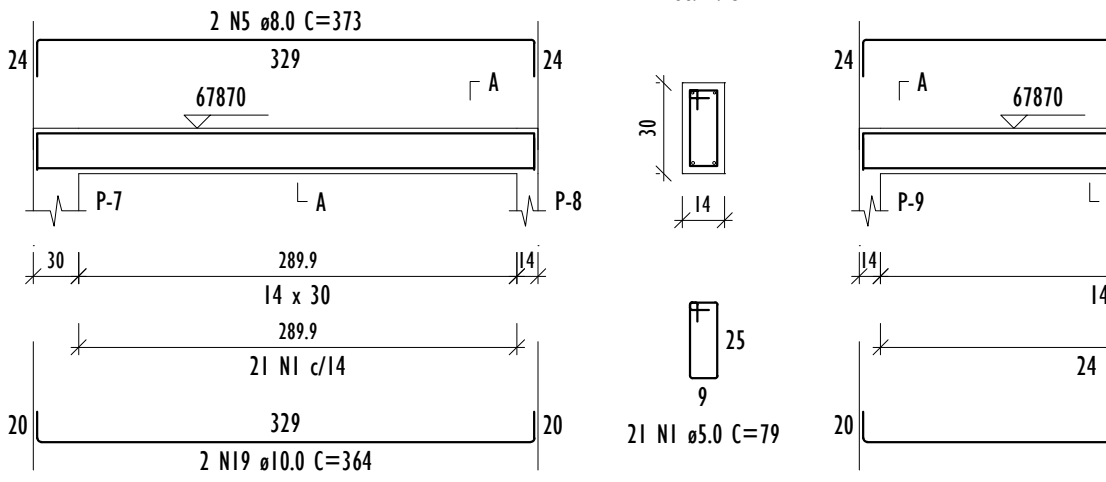
V-402 (14 x 30)

ESC. 1:50



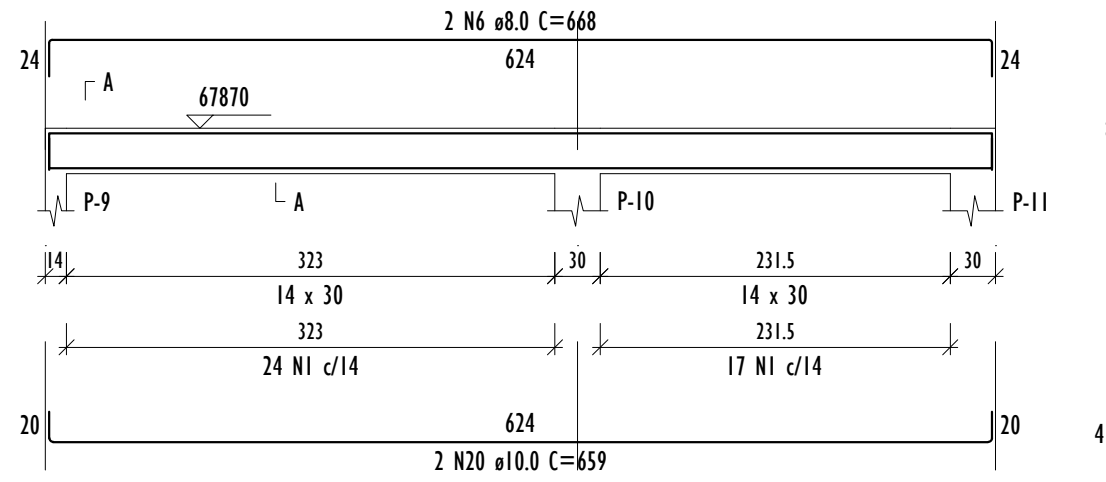
V-403 (14 x 30)

ESC. 1:50



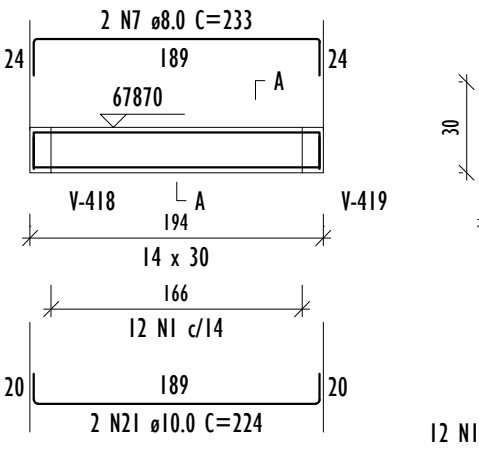
V-404 (14 x 30)

ESC. 1:50



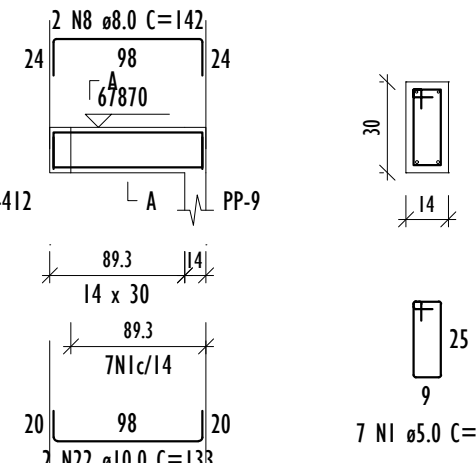
V-407 (14 x 30)

ESC. 1:50



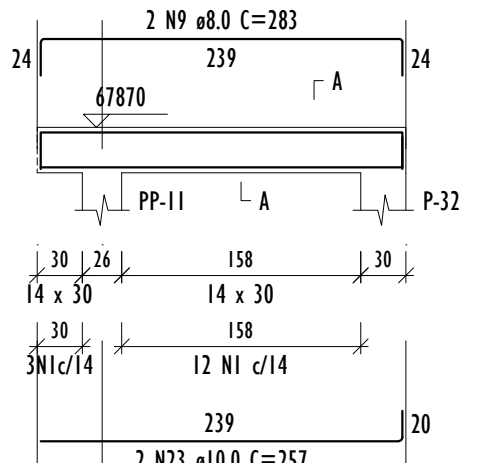
V-408 (14 x 30)

ESC. 1:50



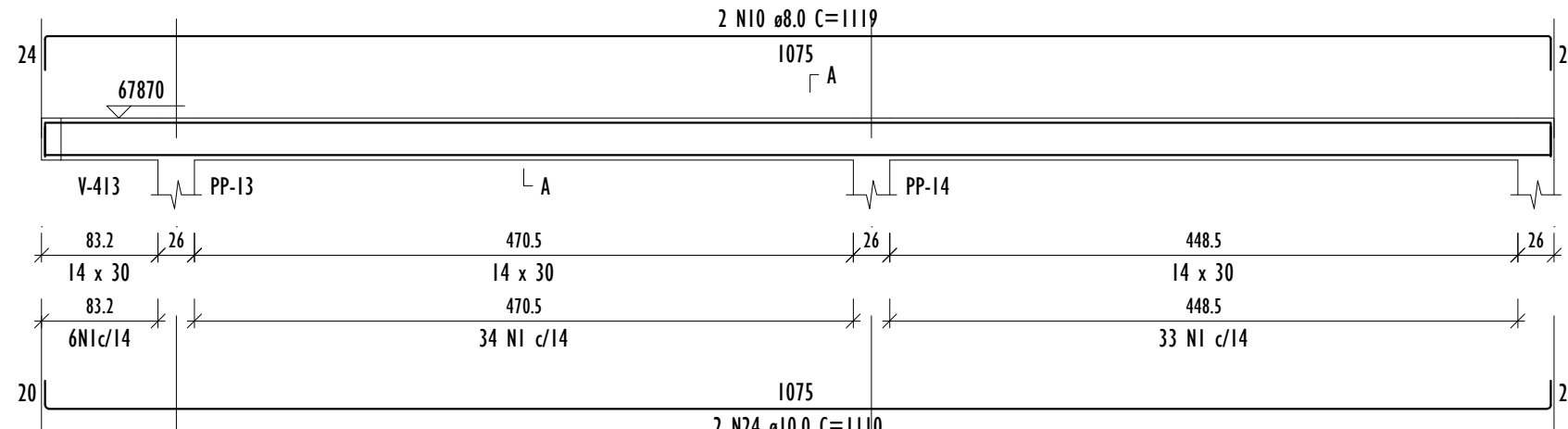
V-409 (14 x 30)

ESC. 1:50



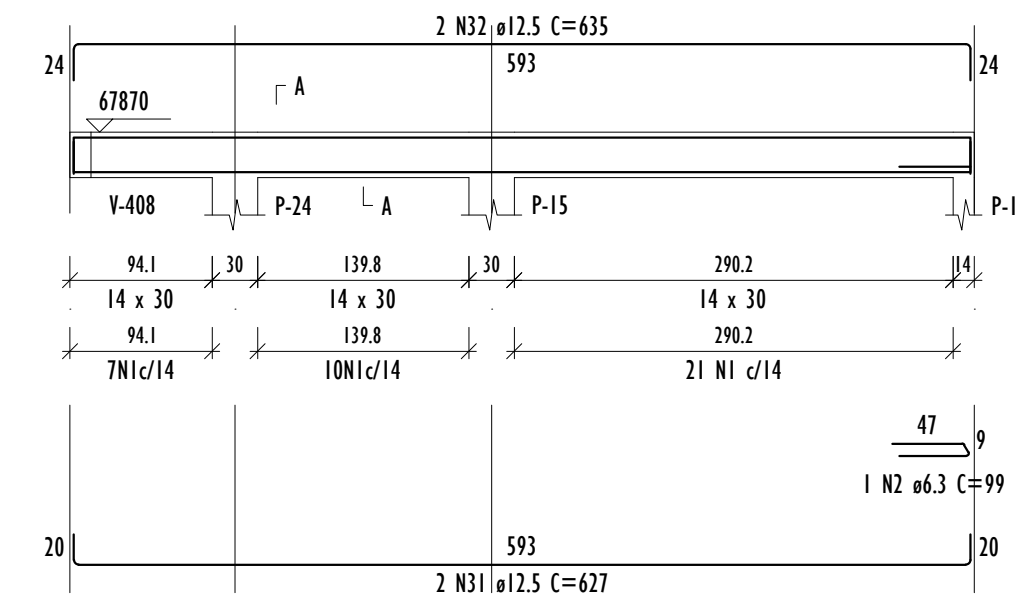
V-410 (14 x 30)

ESC. 1:50



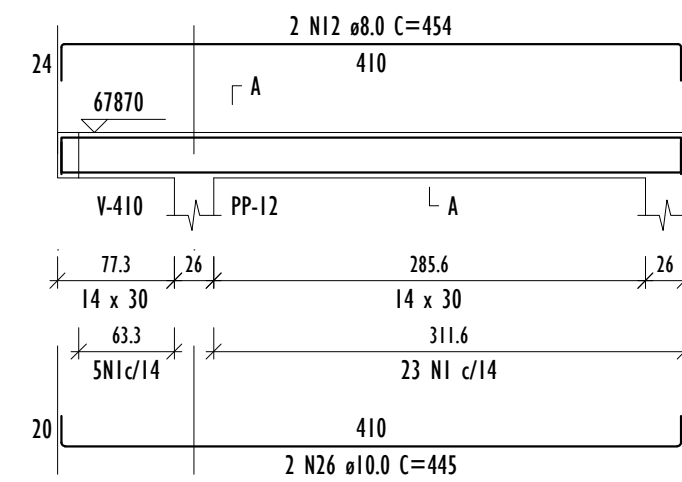
V-412 (14 x 30)

ESC. 1:50



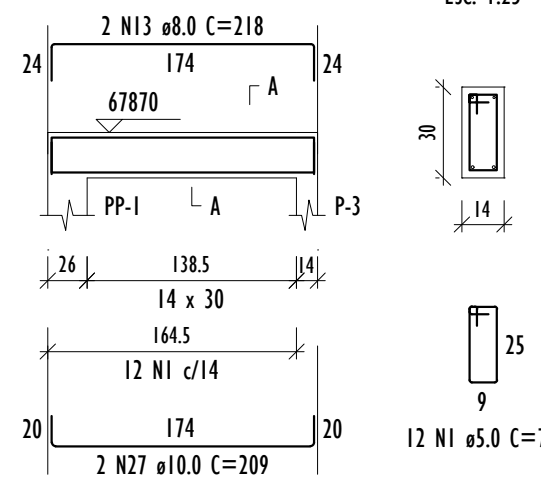
V-413 (14 x 30)

ESC. 1:50



V-414 (14 x 30)

ESC. 1:50



RELAÇÃO DO AÇO

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
V-401	1	5.0	545	79	43055
V-404	2	6.3	1	99	99
V-407	3	8.0	2	718	1436
V-410	4	8.0	2	693	1386
V-411	5	8.0	2	373	746
V-413	6	8.0	2	668	1336
V-416	7	8.0	4	233	1398
V-419	8	8.0	2	142	284
	9	8.0	2	283	566
	10	8.0	2	1119	2238
	11	8.0	2	1074	2148
	12	8.0	2	454	908
	13	8.0	4	218	872
	14	8.0	4	168	672
	15	8.0	4	363	1452
	16	8.0	2	747	1494
	17	10.0	2	709	1418
	18	10.0	2	684	1368
	19	10.0	2	364	728
	20	10.0	2	659	1318
	21	10.0	6	224	1344
	22	10.0	2	133	266
	23	10.0	2	257	514
	24	10.0	2	1110	2220
	25	10.0	2	1087	2174
	26	10.0	2	445	890
	27	10.0	4	209	836
	28	10.0	4	159	636
	29	10.0	4	354	1416
	30	10.0	2	738	1476
	31	12.5	2	627	1254
	32	12.5	2	635	1270

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 0% (Barras)	PESO + 0% (kg)
CASO	6.3	1	1	0.2
	8.0	169.4	15	66.8
	10.0	166	14	102.4
	12.5	25.2	3	24.3
	5.0	430.6	36	66.4

PESO TOTAL (kg)

Volume de concreto (C-30) = 3.05 m³
Área de forma = 53.75 m²

Relação do Aço

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
V-501	1	5.0	121	79	9559
V-504	2	8.0	4	423	1692
	3	8.0	4	558	2232
	4	10.0	4	414	1656
	5	10.0	4	549	2196

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 0% (Barras)	PESO + 0% (kg)
CASO	8.0	39.2	4	15.5
	10.0	38.5	4	23.7
	5.0	95.6	8	14.7

Volume de concreto (C-30) = 0.68 m³
Área de forma = 11.95 m²

REV.	DESCRIÇÃO	DATA	EXEC.	VERIF.	APROV.
01	REVISÃO DE PROJETO	06/2026	RF	LS	SL
00	EMIÇÃO INICIAL	05/2026	RF	LS	SL
CONTRATADA:		RE: Sinval Ladeira REG. CREIA: 28.498/D ASS:			
CONTRATANTE:		PREFEITURA MUNICIPAL DE JUIZ DE FORA			
ENDEREÇO:		JUIZ DE FORA/MG			
PROGRAMA:		UBS VALADARES			
TÍTULO E CONTEÚDO:		PROJETO EXECUTIVO ESTRUTURAL DETALHAMENTO DE VIGAS NÍVEL 677,55 - PARTE 03/03 DETALHAMENTO DE VIGAS NÍVEL 678,70 DETALHAMENTO DE VIGAS NÍVEL 679,90			
DATA:		MAIO/2026		ESCALA:	
ARQUIVO:		INDICADA		FOLHA:	
ESTC-PE-JF691-VLDR-052026-R01				20/23	