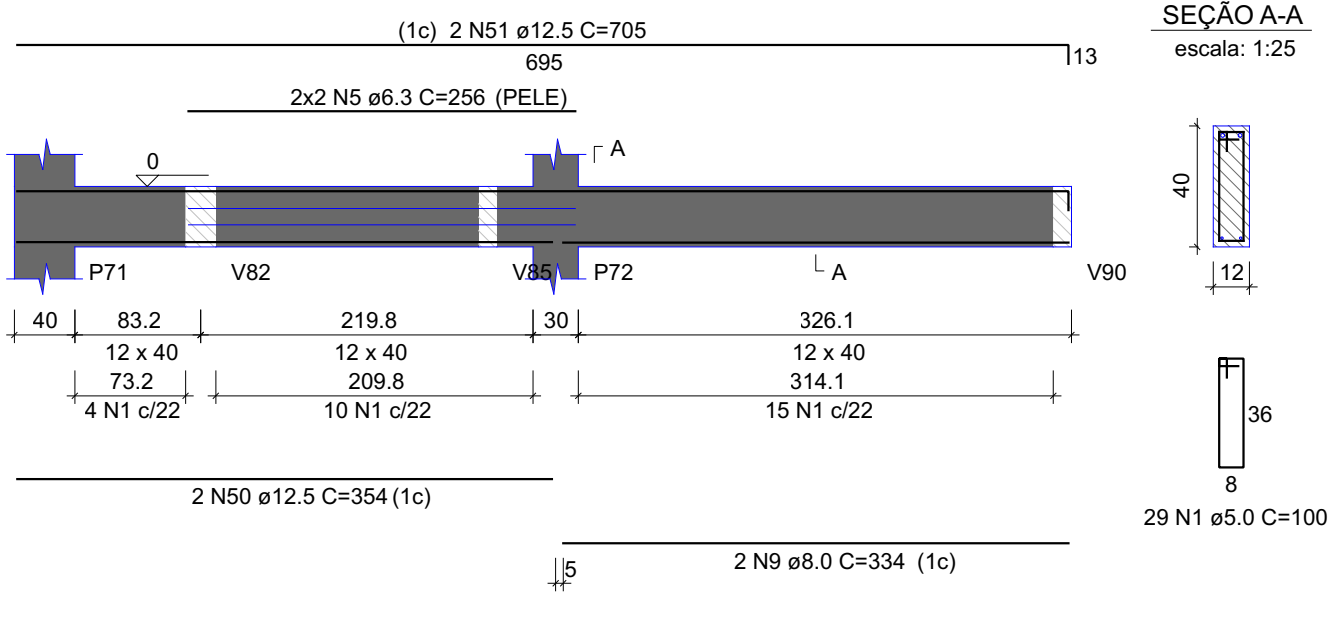
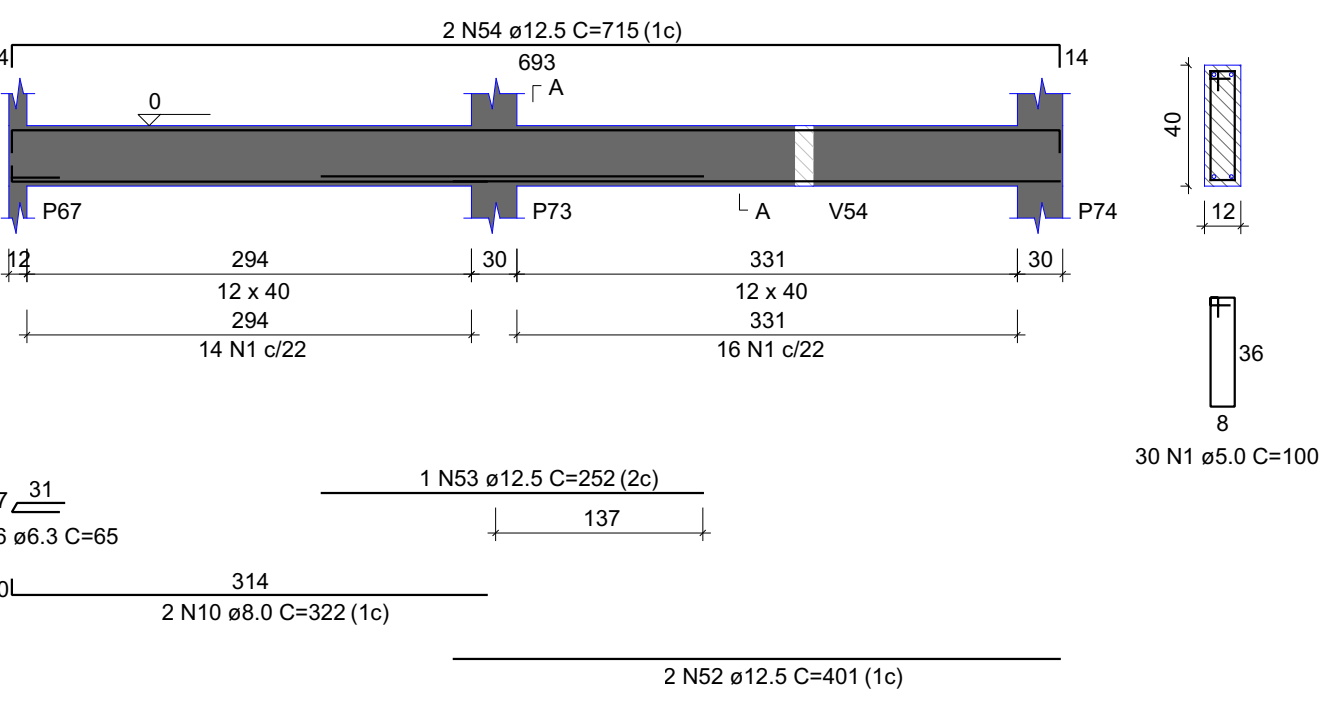


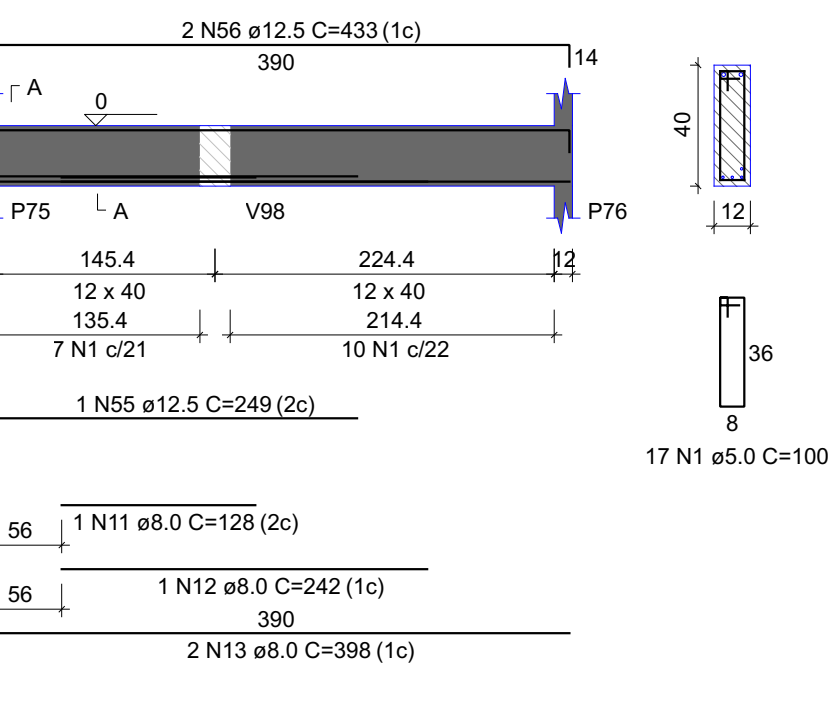
V44
escala: 1:50



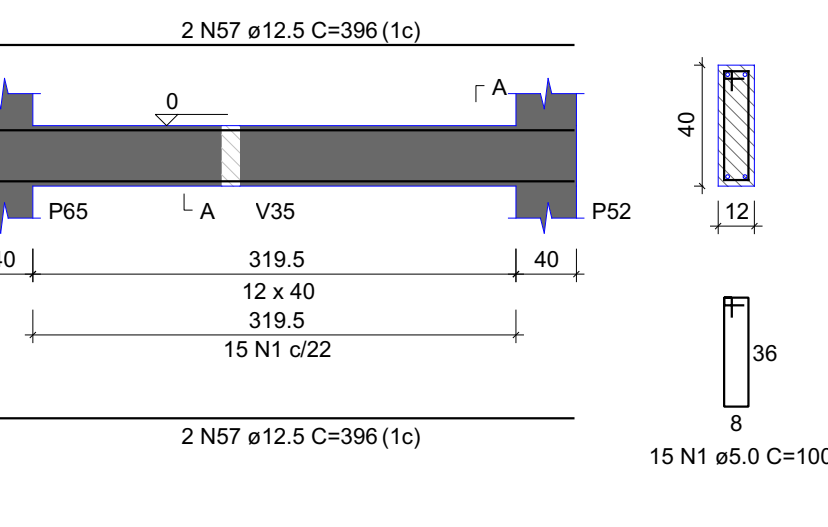
V45
escala: 1:50



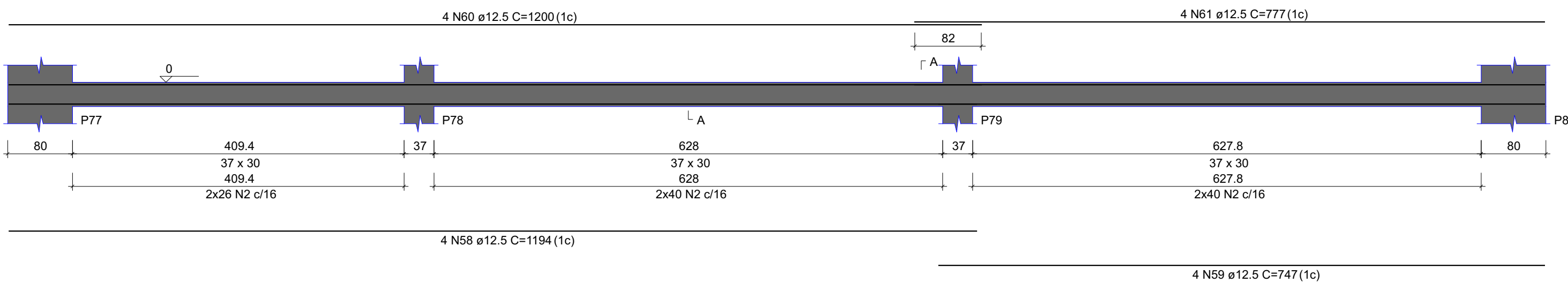
V46
escala: 1:50



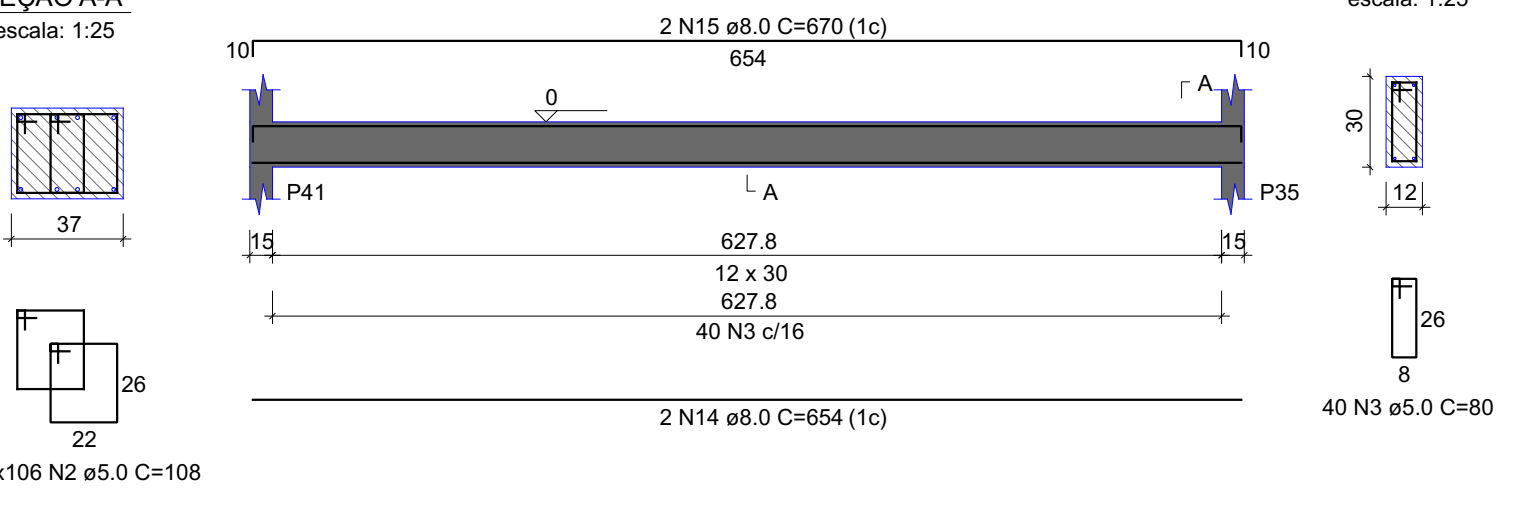
V52
escala: 1:50



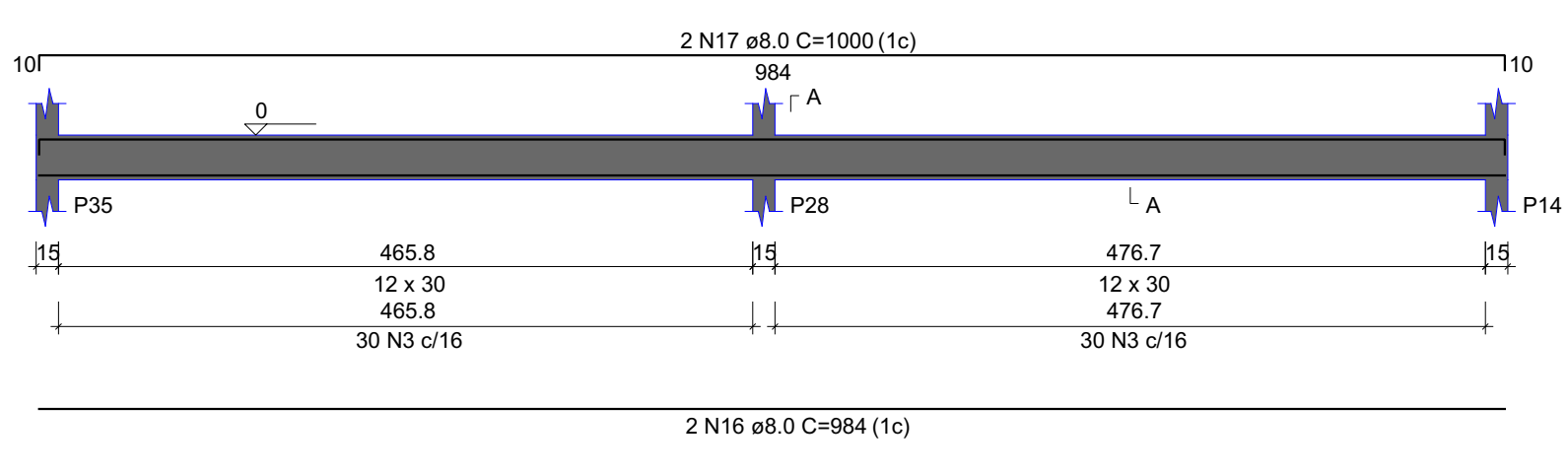
V47
escala: 1:50



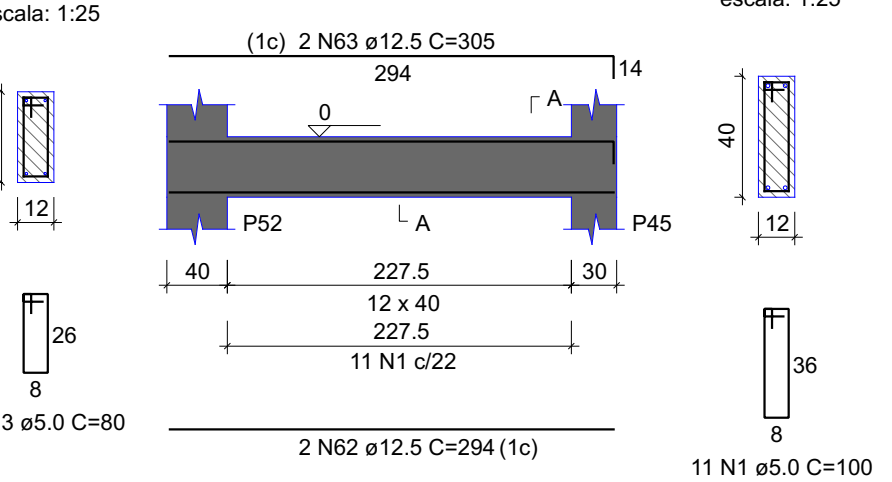
V49
escala: 1:50



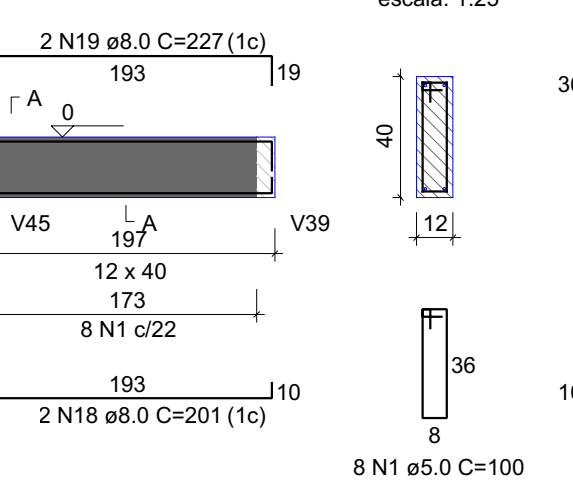
V50
escala: 1:50



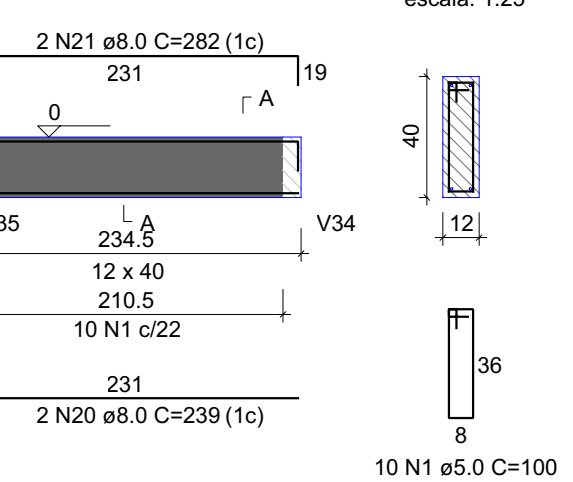
V53
escala: 1:50



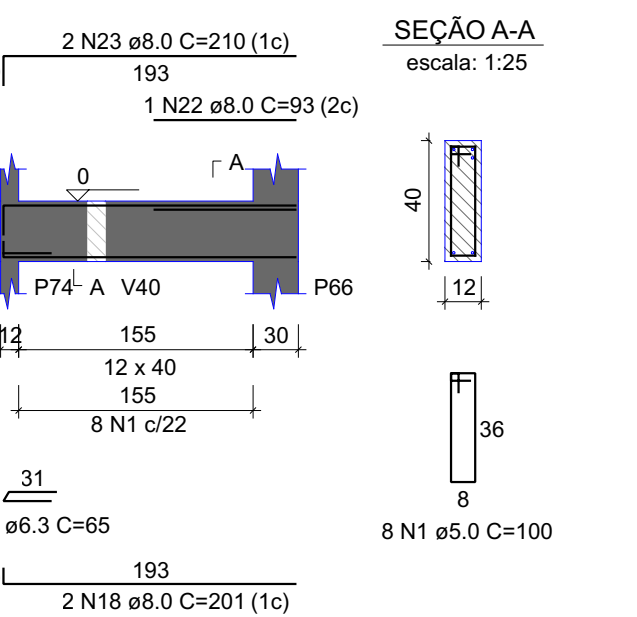
V54
escala: 1:50



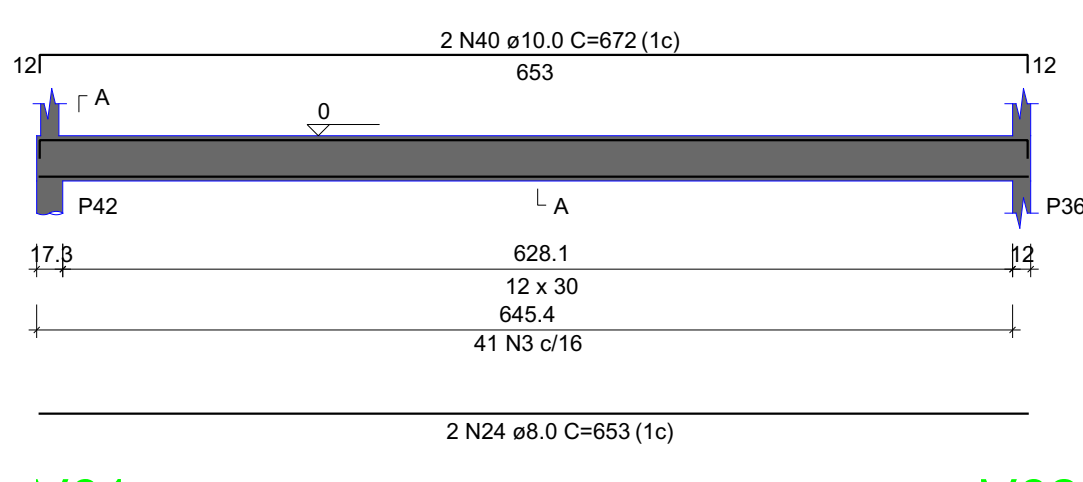
V55
escala: 1:50



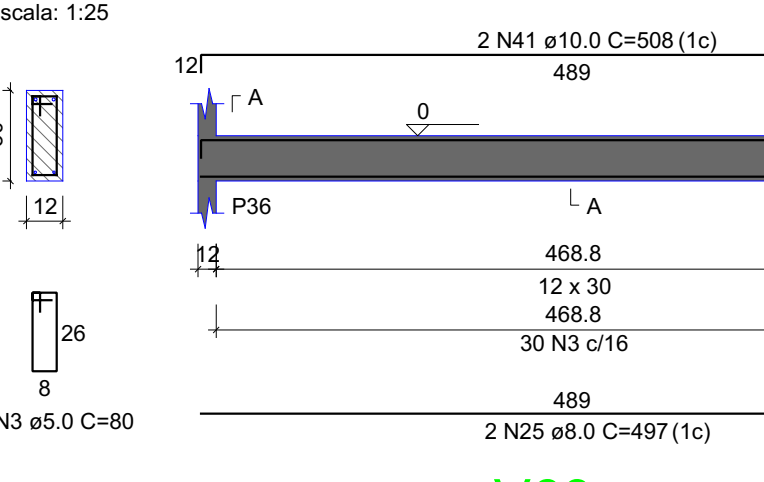
V60
escala: 1:50



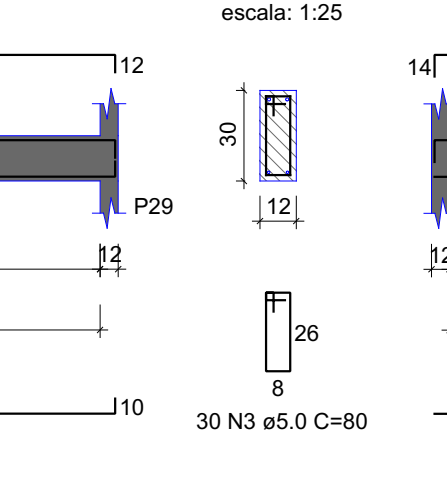
V56
escala: 1:50



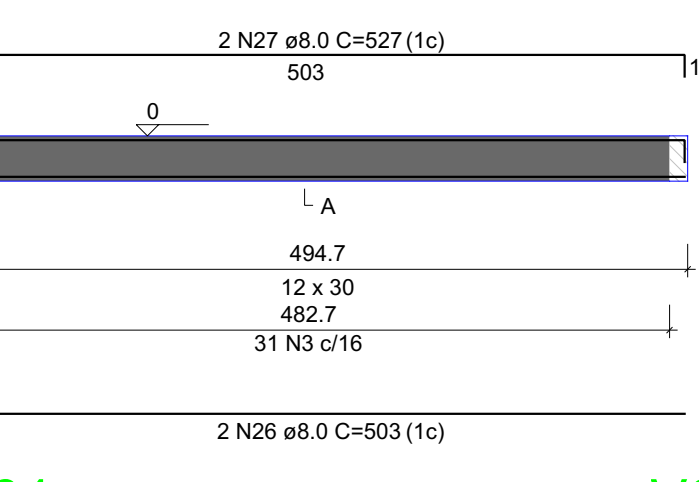
V57
escala: 1:50



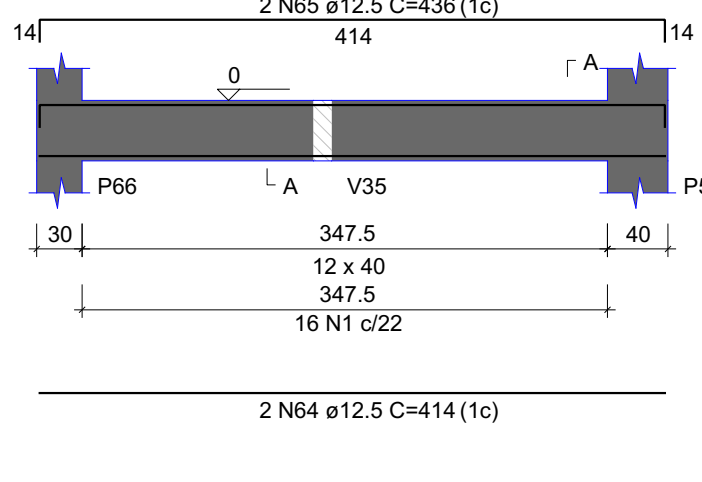
V58
escala: 1:50



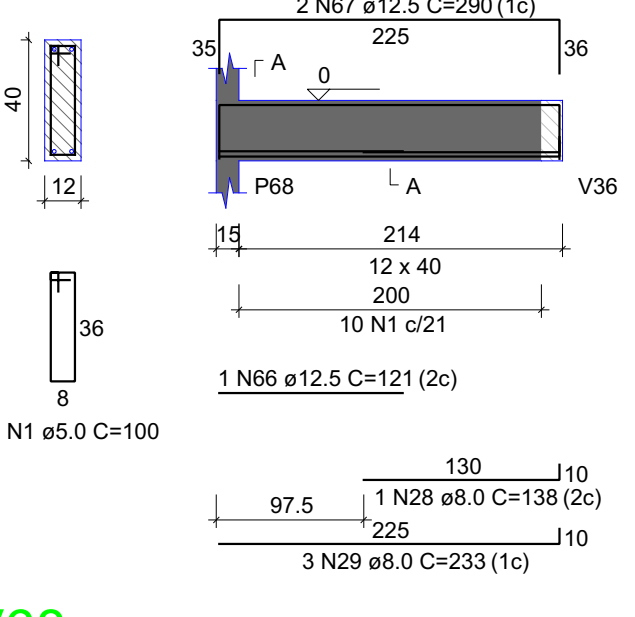
V59
escala: 1:50



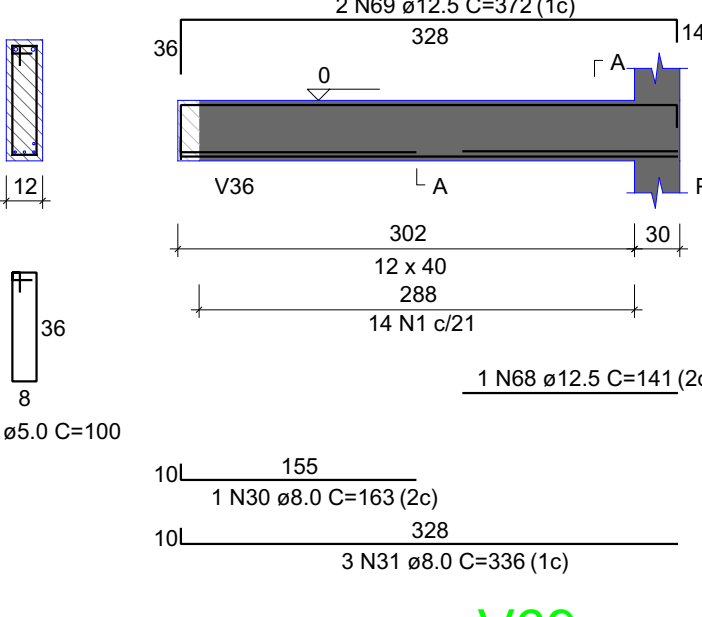
V61
escala: 1:50



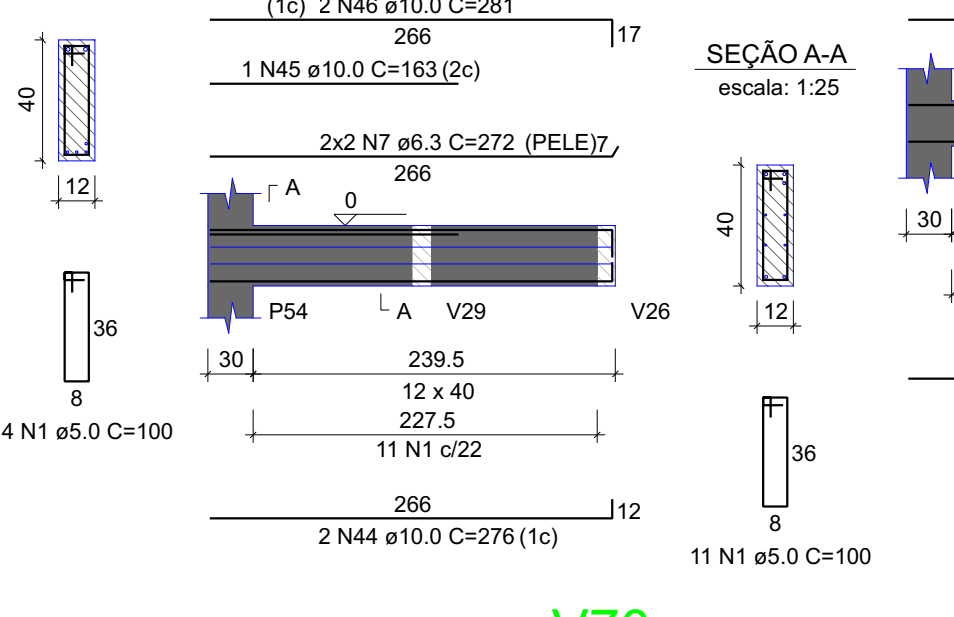
V62
escala: 1:50



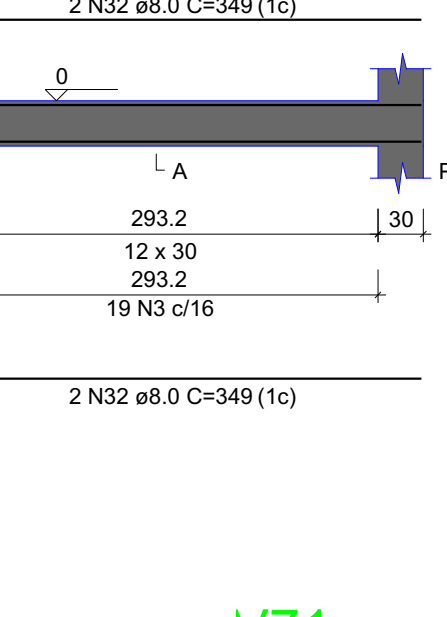
V63
escala: 1:50



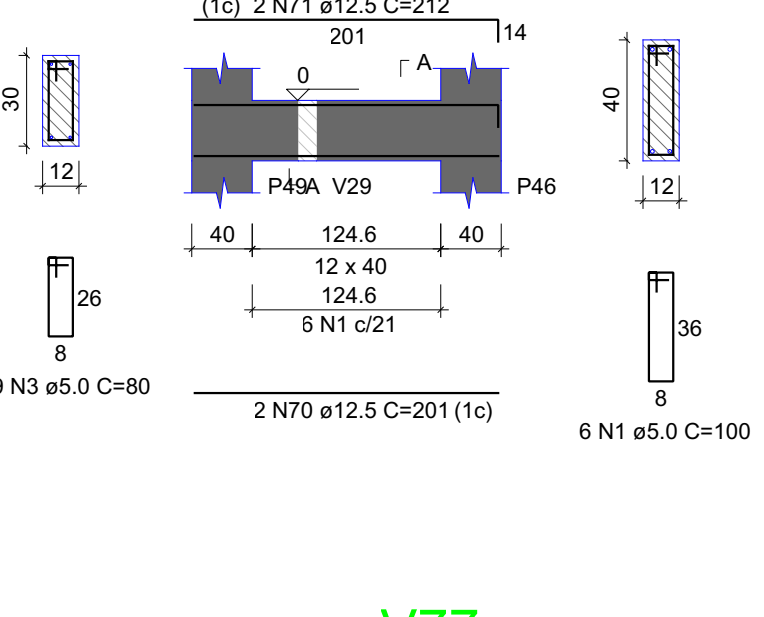
V64
escala: 1:50



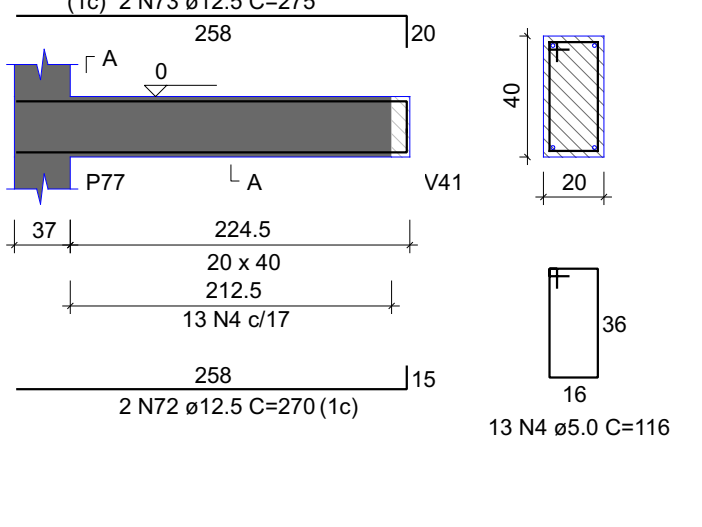
V65
escala: 1:50



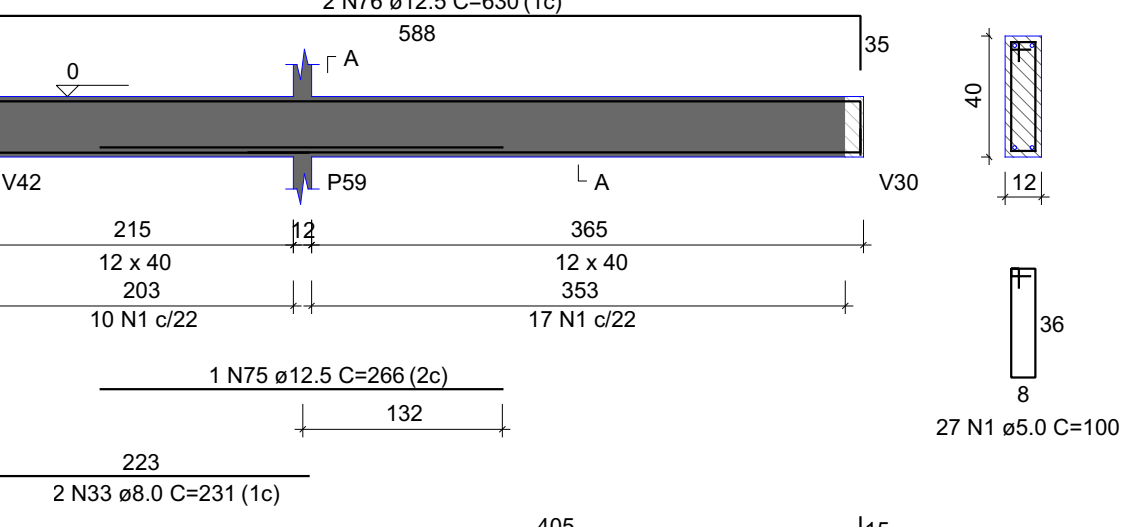
V67
escala: 1:50



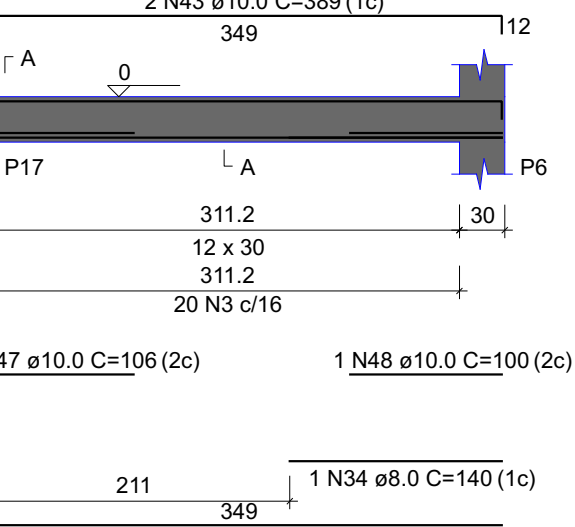
V66
escala: 1:50



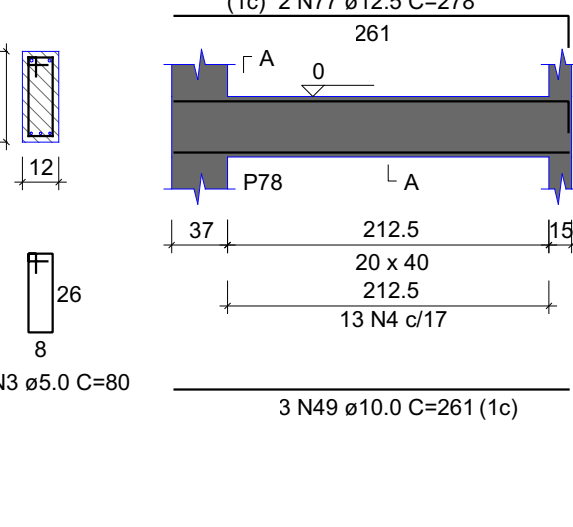
V68
escala: 1:50



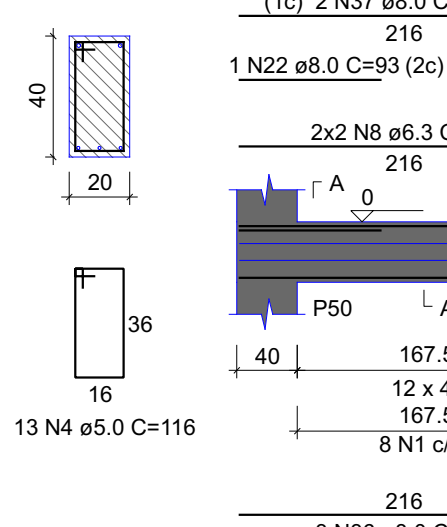
V69
escala: 1:50



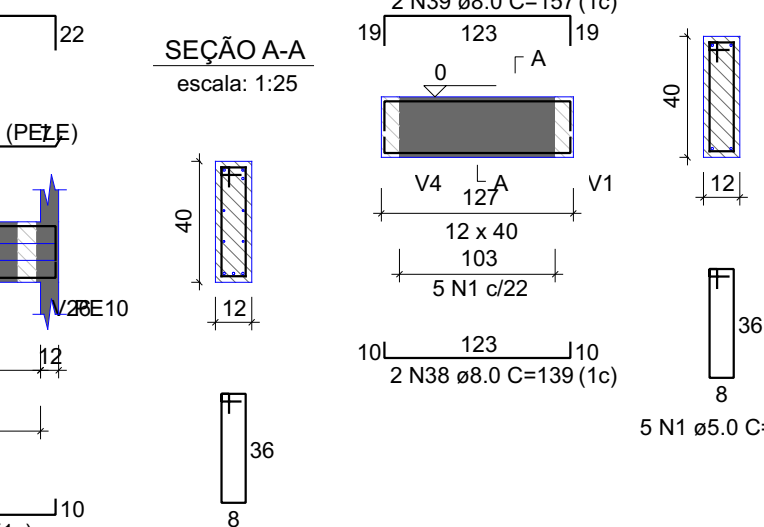
V70
escala: 1:50



V71
escala: 1:50



V77
escala: 1:50



Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 10 % (Barras)
CA50	6.3	31.3	3
	8.0	228.2	21
	10.0	69	7
	12.5	322.9	30
	5.0	693	64
PESO TOTAL (kg)			
CA50	496.4		
CA60	117.5		

Volume de concreto (C-30) = 6.74 m³
Área de forma = 105.75 m²

Relação do aço

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
V44	1	5.0	225	100	22500
V47	2	5.0	212	108	22896
V52	3	5.0	261	80	20880
V55	4	5.0	26	116	3016
V58	5	6.3	4	256	1024
V61	6	6.3	2	65	130
V64	7	6.3	4	272	1088
V67	8	6.3	4	222	888
V70	9	8.0	2	334	668
	10	8.0	2	322	644
	11	8.0	1	128	128
	12	8.0	1	242	242
	13	8.0	2	398	796
	14	8.0	2	654	1308
	15	8.0	2	670	1340
	16	8.0	2	984	1968
	17	8.0	2	1000	2000
	18	8.0	4	201	804
	19	8.0	2	227	454
	20	8.0	2	239	478
	21	8.0	2	282	564
	22	8.0	2	93	186
	23	8.0	2	210	420
	24	8.0	2	653	1306
	25	8.0	2	497	994
	26	8.0	2	503	1006
	27	8.0	2	527	1054
	28	8.0	1	138	138
	29	8.0	3	233	699
	30	8.0	1	163	163
	31	8.0	3	336	1008
	32	8.0	4	349	1396
	33	8.0	2	462	924
	34	8.0	1	140	140
	35	8.0	2	357	714
	36	8.0	3	224	672
	37	8.0	2	236	472
	38	8.0	2	139	278
	39	8.0	2	157	314
	40	10.0	2	672	1344
	41	10.0	2	508	1016
	42	10.0	2	359	718
	43	10.0	4	389	1556
	44	10.0	2	276	552
	45	10.0	1	163	163
	46	10.0	2	281	562
	47	10.0	1	106	106
	48	10.0	1	100	100
	49	10.0	3	261	783
	50	12.5	2	354	708
	51	12.5	2	705	1410
	52	12.5	2	401	802
	53	12.5	1	252	252
	54	12.5	2	715	1430
	55	12.5	1	249	249
	56	12.5	2	433	866
	57	12.5	4	396	1584
	58	12.5	4	1194	4776
	59	12.5	4	747	2988
	60	12.5	4	1200	4800
	61	12.5	4	777	3108
	62	12.5	2	294	588
	63	12.5	2	305	610
	64	12.5	2	414	828
	65	12.5	2	436	872
	66	12.5	1	121	121
	67	12.5	2	290	580
	68	12.5	1	141	141
	69	12.5	2	372	744
	70	12.5	2	201	402
	71	12.5	2	212	424
	72	12.5	2	270	540
	73	12.5	2	275	550
	74	12.5	2	417	834
	75	12.5	1	266	266
	76	12.5	2	630	1260
	77	12.5	2	278	556

REVISÕES

NÚMERO	COMENTÁRIOS	DATA	AUTOR

Projeto de Engenharia

CLIENTE/CONTRATANTE:

PREFEITURA MUNICIPAL DE FRANCISCO BELTRÃO

TÍTULO/EMPREENHAMENTO:

REFORMA E AMPLIAÇÃO - UNIDADE DE SAÚDE PE. ULRICO

TIPO DE OBRA/SERVIÇO:

REFORMA E AMPLIAÇÃO

ENDEREÇO:

RUA PEDRO F. DE BACKER, SN - PE. ULRICO

DIMENSÕES DA FOLHA:

841x594mm

ESCALA DE PLOTAGEM:

INDICADA

PAVIMENTO:

DISCIPLINA:

ESTRUTURAL

CONTEÚDO DA FRANCHA:

DETALHAMENTO ESTRUTURAL - VIGAS BALDRAMES

CONJUNTO:

PROJETARE ENGENHARIA LTDA

CREA PR-43596 / CAU 37134-3

Avenida Florianópolis, 530 - sala 41 - Alvorada

Francisco Beltrão - PR - CEP 85.001-560

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SERGIO V. GALVÃO JUNIOR

ING. CIVIL - CREA PR-173760-D

RESP. TÉCNICO COORDENAÇÃO

GABRIEL ANDRÉ CHIOSSI

ING. CIVIL - CREA PR-173760-D

RESP. TÉCNICO PROJETO

1/5

3/ 26

DT	NOME	COR	PERM
01	BRD	0.75	
02	YELLOW	0.25	
03	GREEN	0.25	
04	RED	0.25	
05	BLUE	0.25	
06	MAGENTA	0.25	
07	WHITE	0.25	
08	GRAY	0.25	
09	BLACK	0.25	
10	CON	0.25	

Desenhos

1. O contrato para elaboração de um projeto não implica a obrigação de executá-lo, ou de fiscalizá-lo a execução. [Lei 10.406/02 Cap. VIII Art. 610 §2º]
2. Os direitos de autoria de um projeto, respeitadas as relações contratuais, são do profissional que os elabora. [Lei 5.194/66 Cap. II Art. 17]