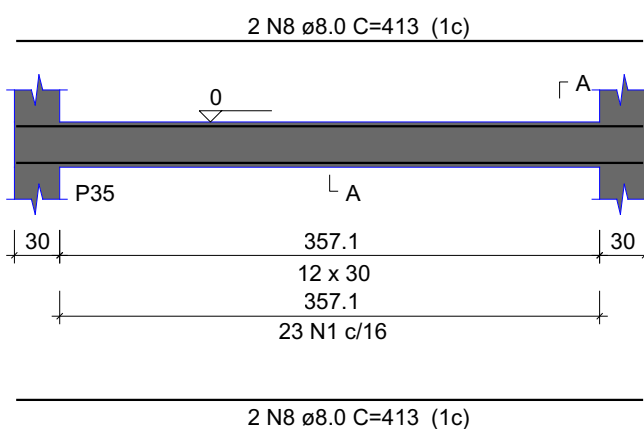
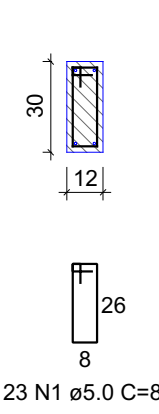


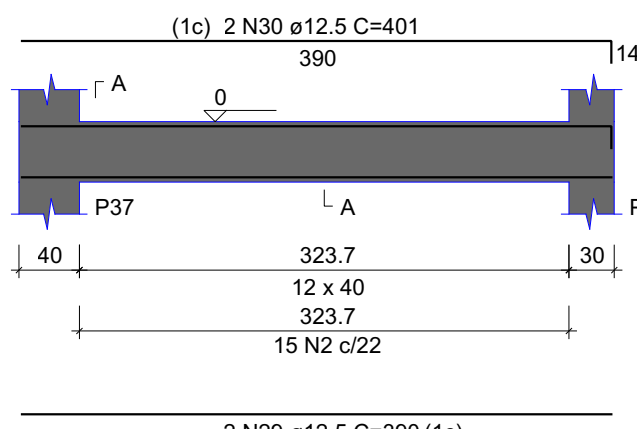
V20
escala: 1:50



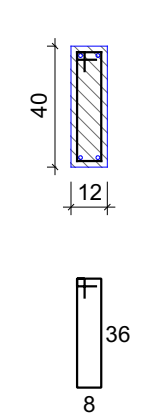
SEÇÃO A-A
escala: 1:25



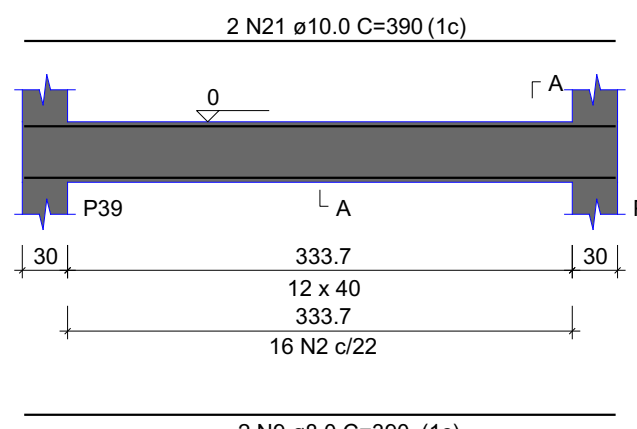
V21
escala: 1:50



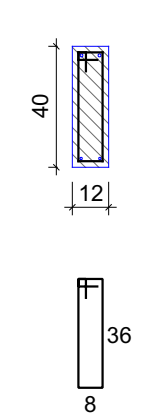
SEÇÃO A-A
escala: 1:25



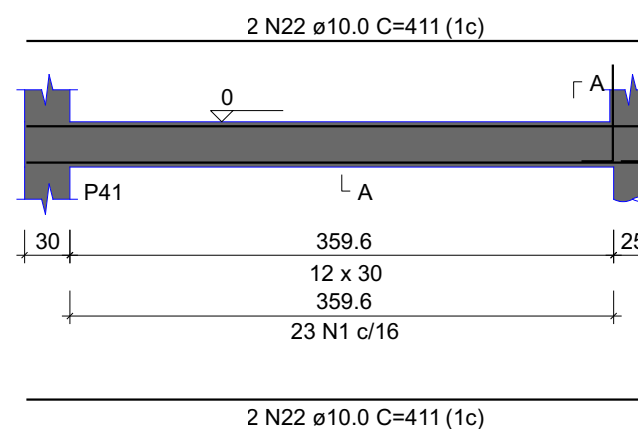
V22
escala: 1:50



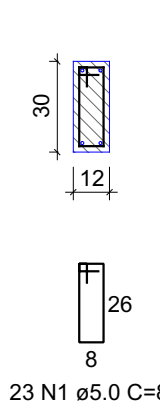
SEÇÃO A-A
escala: 1:25



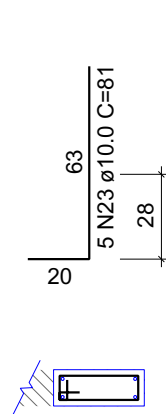
V24
escala: 1:50



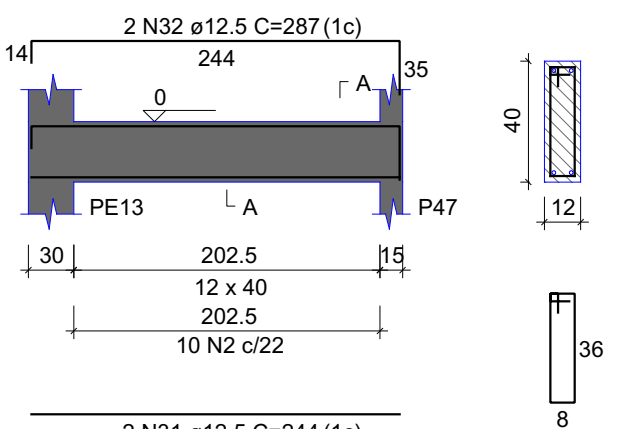
SEÇÃO A-A
escala: 1:25



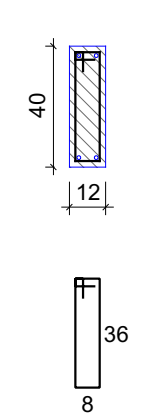
ESPERA P42
escala: 1:25



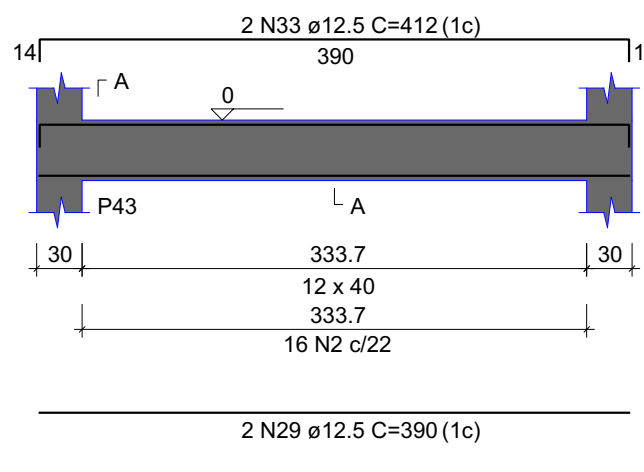
V27
escala: 1:50



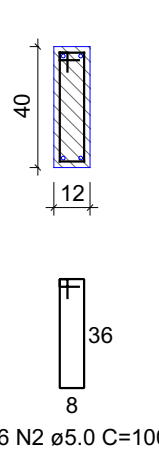
SEÇÃO A-A
escala: 1:25



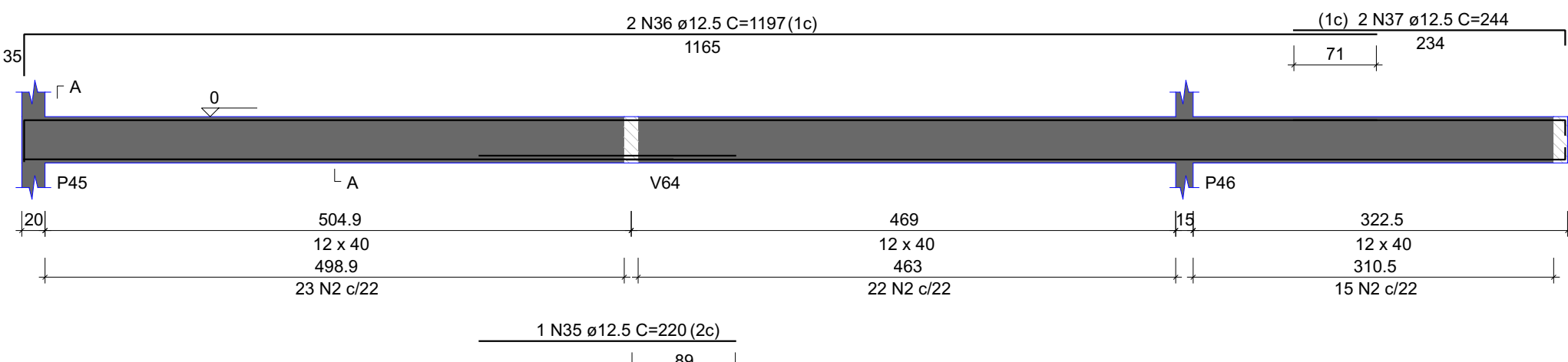
V25
escala: 1:50



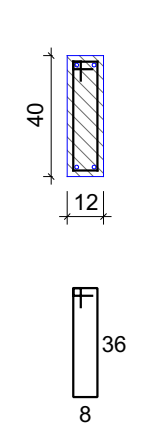
SEÇÃO A-A
escala: 1:25



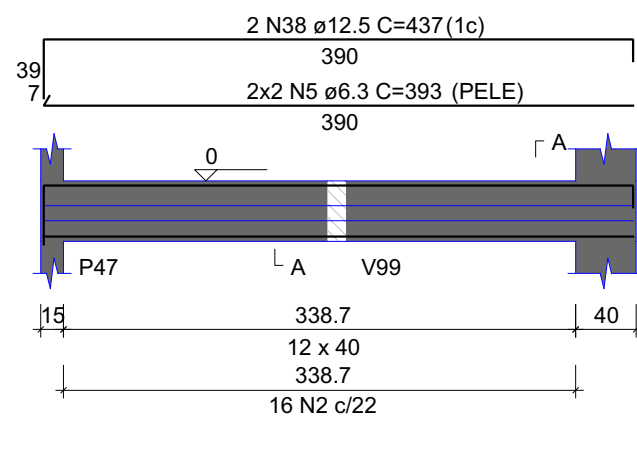
V26
escala: 1:50



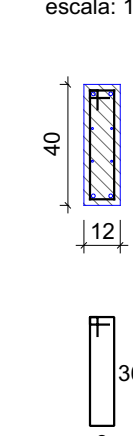
SEÇÃO A-A
escala: 1:25



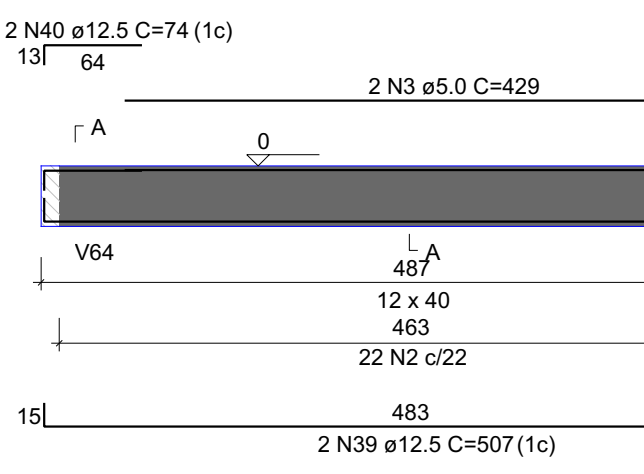
V28
escala: 1:50



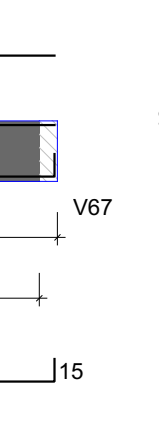
SEÇÃO A-A
escala: 1:25



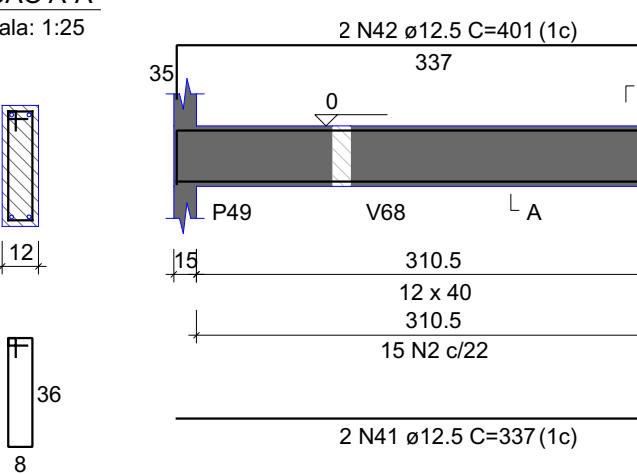
V29
escala: 1:50



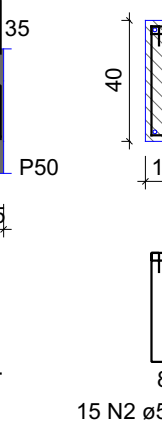
SEÇÃO A-A
escala: 1:25



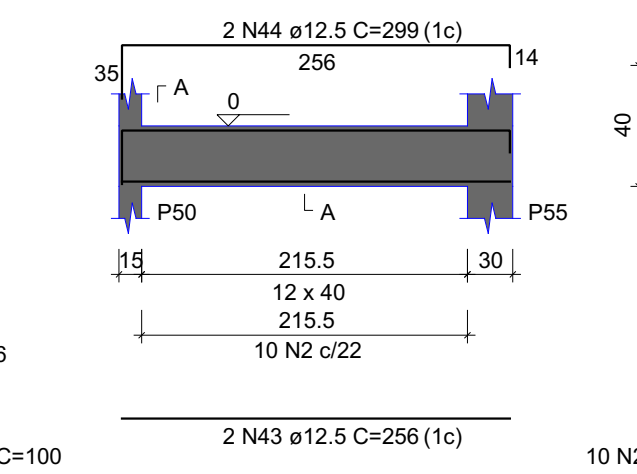
V30
escala: 1:50



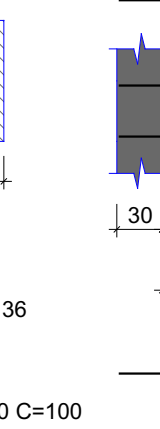
SEÇÃO A-A
escala: 1:25



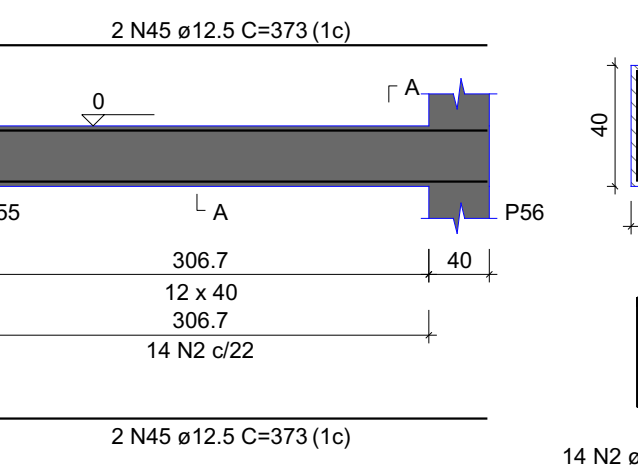
V31
escala: 1:50



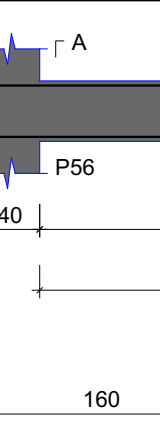
SEÇÃO A-A
escala: 1:25



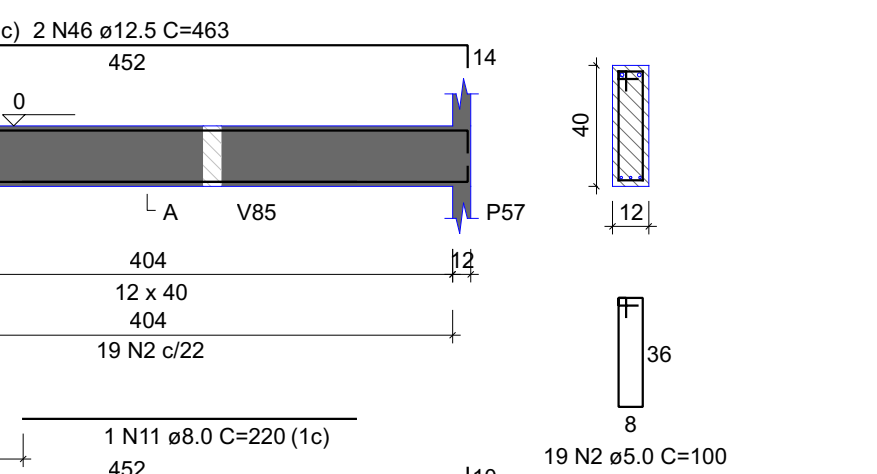
V32
escala: 1:50



SEÇÃO A-A
escala: 1:25



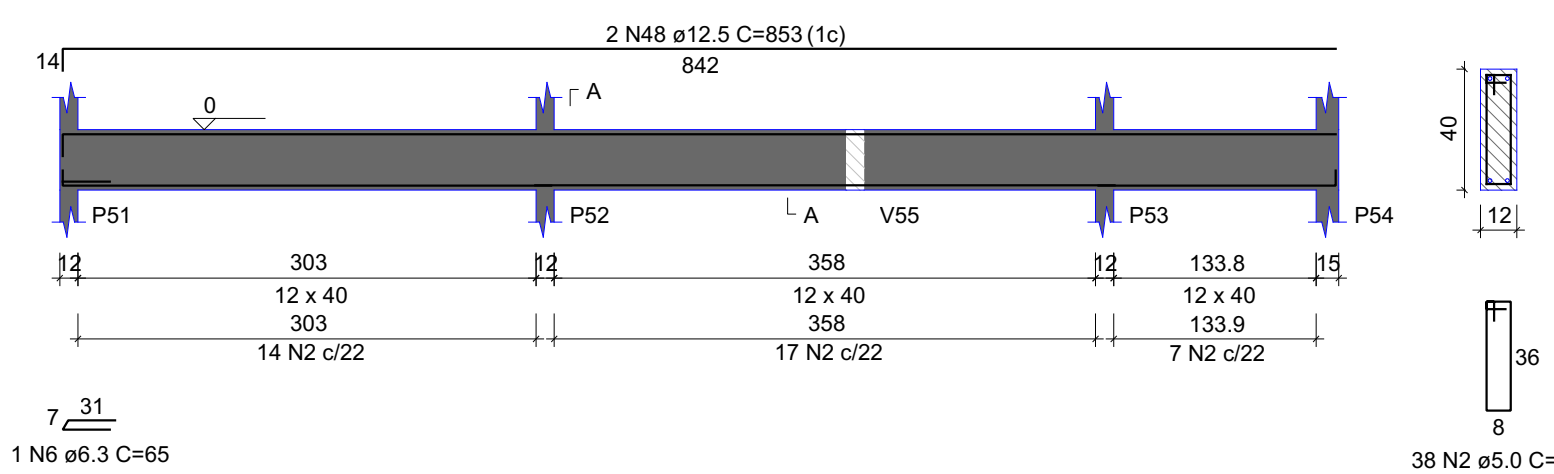
V33
escala: 1:50



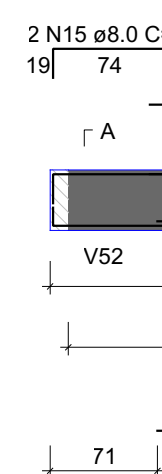
SEÇÃO A-A
escala: 1:25



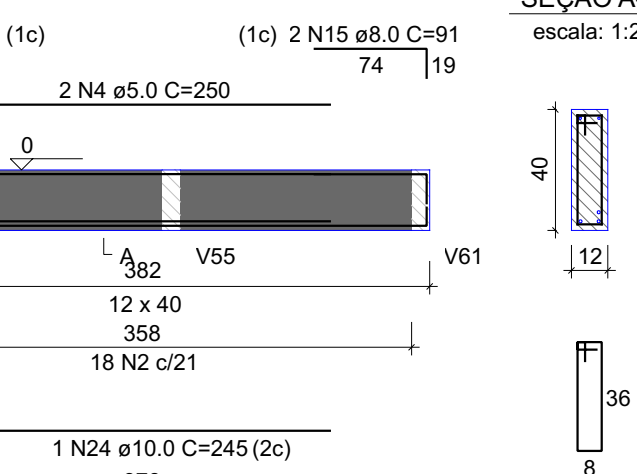
V34
escala: 1:50



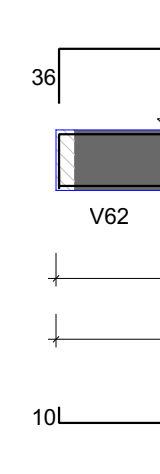
SEÇÃO A-A
escala: 1:25



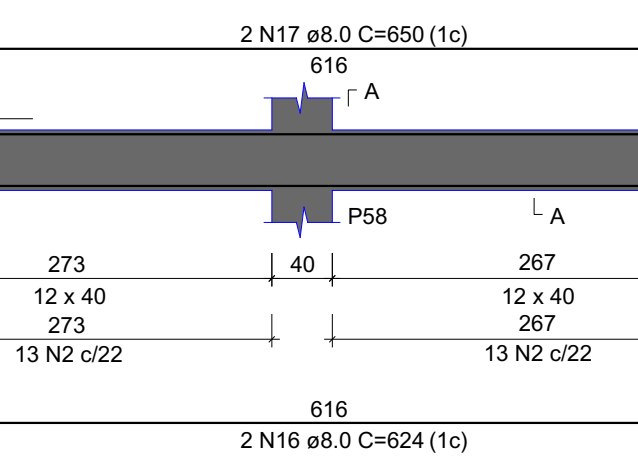
V35
escala: 1:50



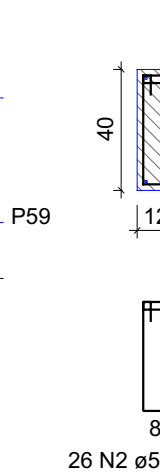
SEÇÃO A-A
escala: 1:25



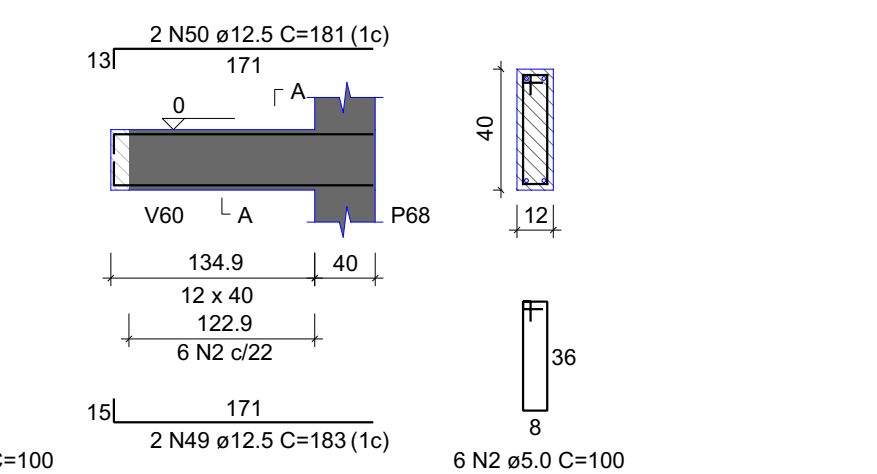
V36
escala: 1:50



SEÇÃO A-A
escala: 1:25



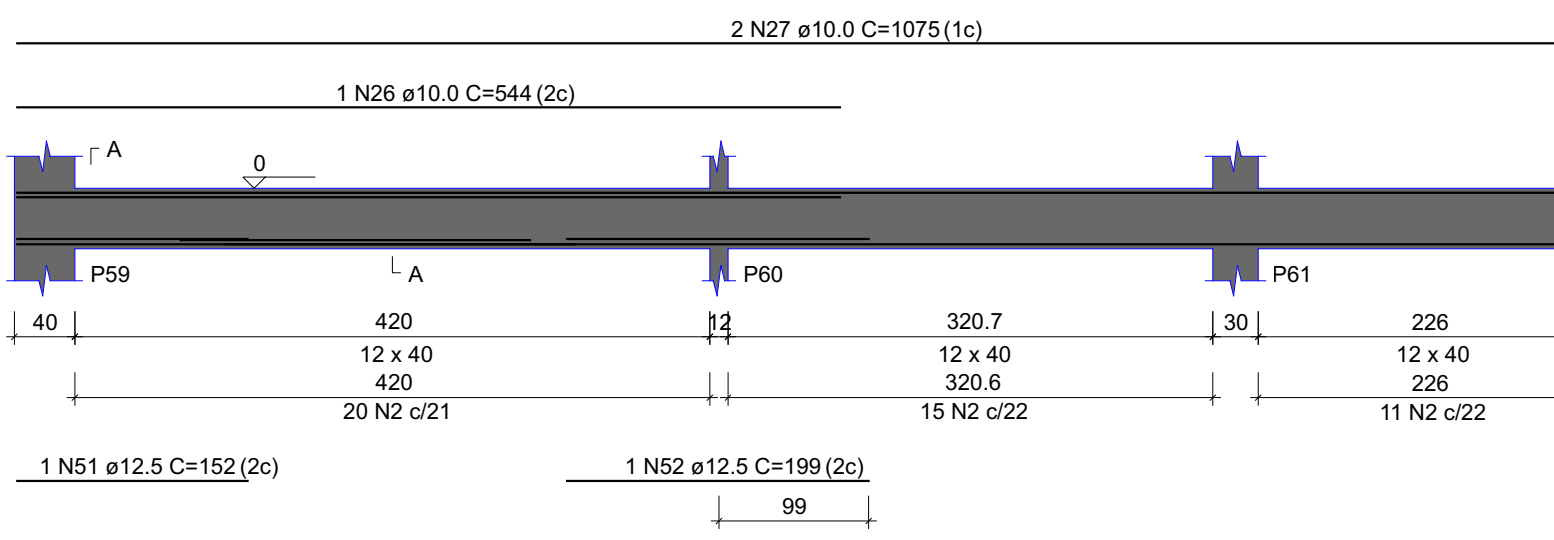
V40
escala: 1:50



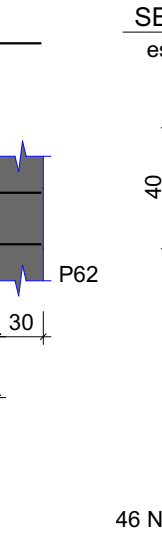
SEÇÃO A-A
escala: 1:25



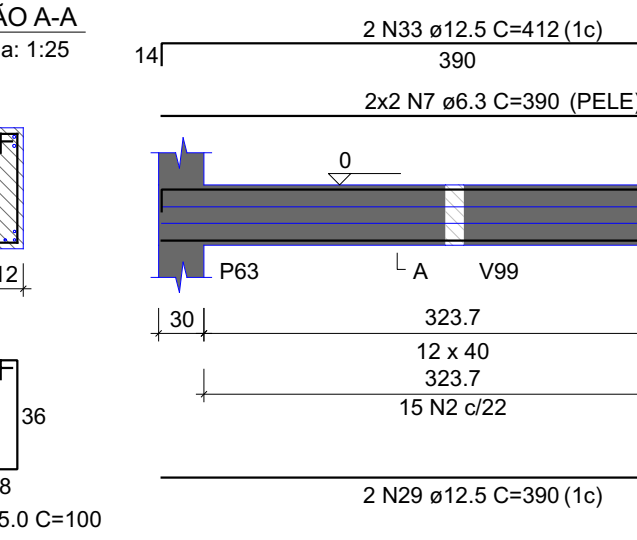
V37
escala: 1:50



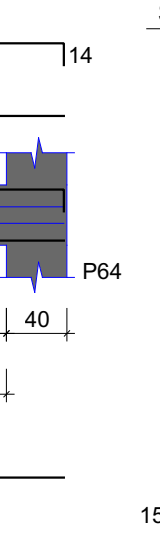
SEÇÃO A-A
escala: 1:25



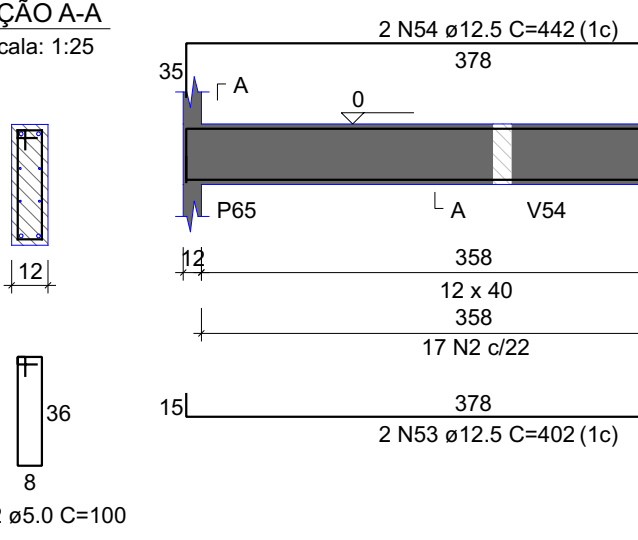
V38
escala: 1:50



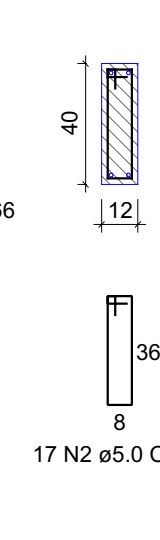
SEÇÃO A-A
escala: 1:25



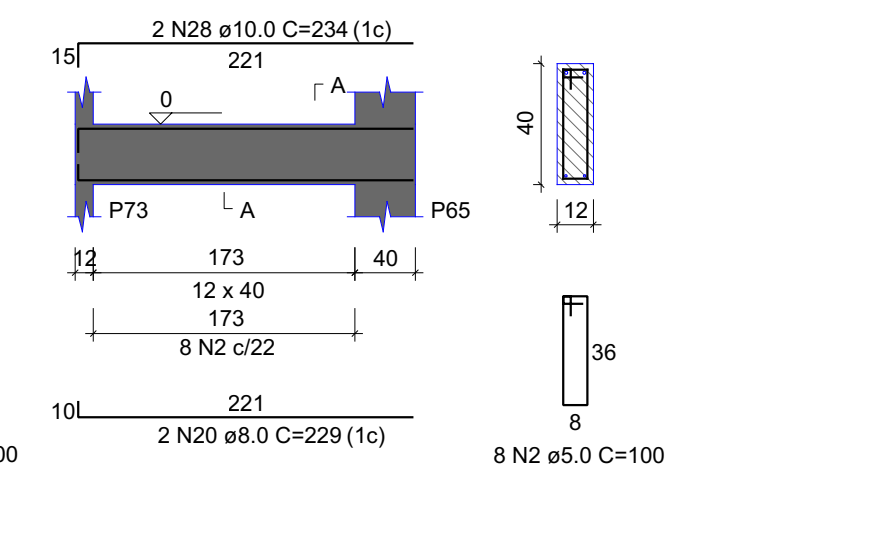
V39
escala: 1:50



SEÇÃO A-A
escala: 1:25



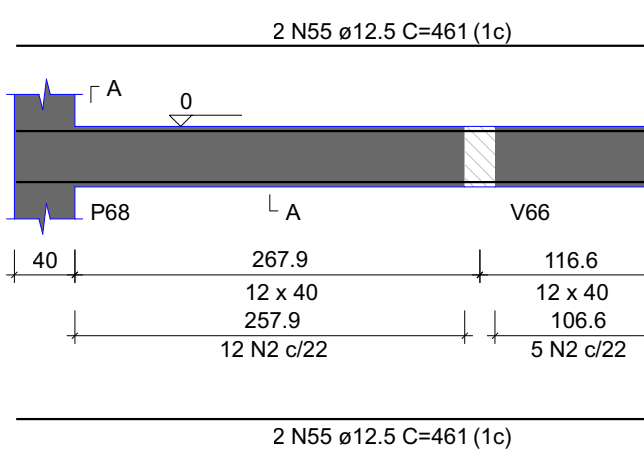
V51
escala: 1:50



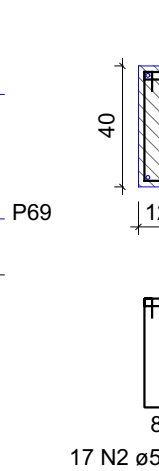
SEÇÃO A-A
escala: 1:25



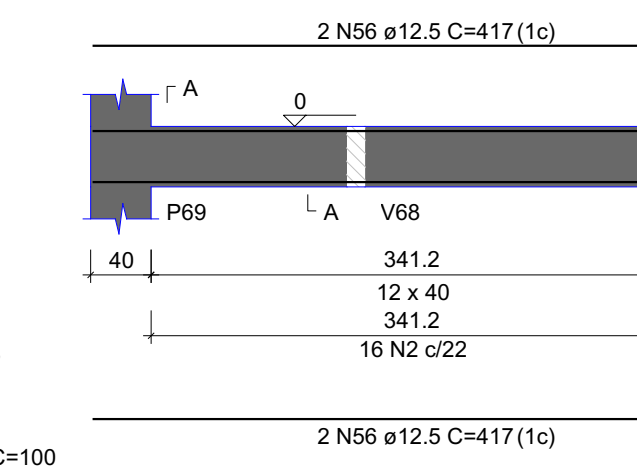
V41
escala: 1:50



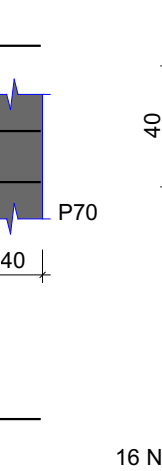
SEÇÃO A-A
escala: 1:25



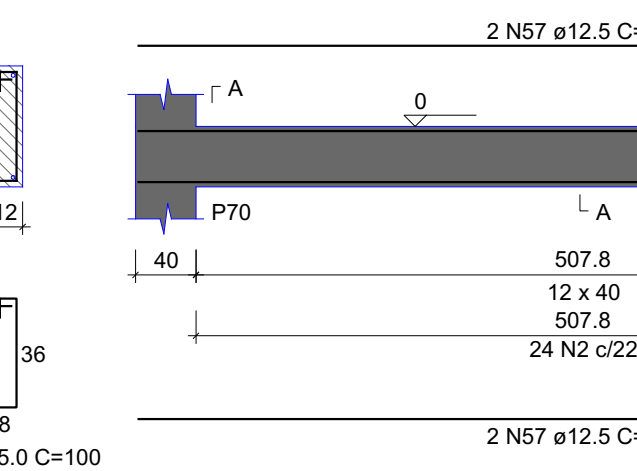
V42
escala: 1:50



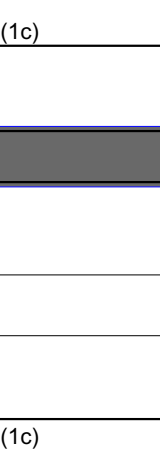
SEÇÃO A-A
escala: 1:25



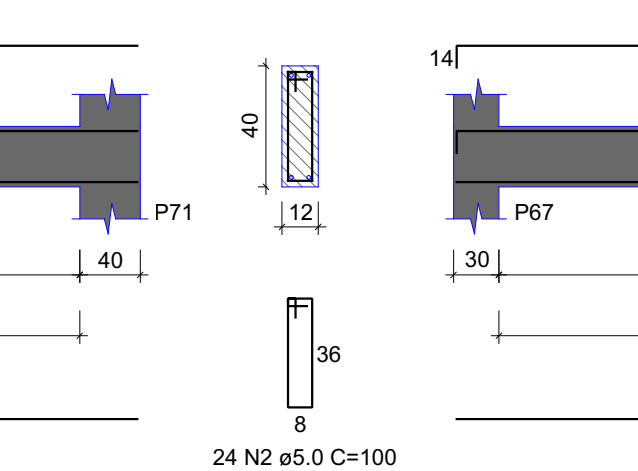
V43
escala: 1:50



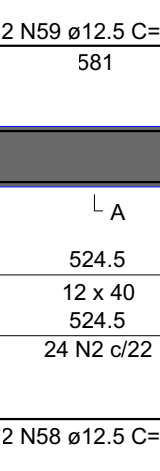
SEÇÃO A-A
escala: 1:25



V48
escala: 1:50



SEÇÃO A-A
escala: 1:25



Relação do aço

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
V20	1	5.0	49	80	3920
V24	2	5.0	468	100	46800
V27	3	5.0	2	429	858
V30	4	5.0	2	250	500
V33	5	6.3	4	393	1572
V36	6	6.3	1	65	65
V39	7	6.3	4	390	1560
V42	8	8.0	4	413	1652
V51	9	8.0	2	390	780
	10	8.0	2	817	1634
	11	8.0	1	220	220
	12	8.0	2	460	920
	13	8.0	2	331	662
	14	8.0	2	165	330
	15	8.0	4	91	364
	16	8.0	2	624	1248
	17	8.0	2	650	1300
	18	8.0	2	231	462
	19	8.0	2	1075	2150
	20	8.0	2	229	458
	21	10.0	2	390	780
	22	10.0	4	411	1644
	23	10.0	5	81	405
	24	10.0	1	245	245
	25	10.0	2	397	794
	26	10.0	1	544	544
	27	10.0	2	1075	2150
	28	10.0	2	234	468
	29	12.5	8	390	3120
	30	12.5	2	401	802
	31	12.5	2	244	488
	32	12.5	2	287	574
	33	12.5	4	412	1648
	34	12.5	2	559	1118
	35	12.5	1	220	220
	36	12.5	2	1197	2394
	37	12.5	2	244	488
	38	12.5	2	437	874
	39	12.5	2	507	1014
	40	12.5	2	74	148
	41	12.5	2	337	674
	42	12.5	2	401	802
	43	12.5	2	256	512
	44	12.5	2	299	598
	45	12.5	4	373	1492
	46	12.5	2	463	926
	47	12.5	2	383	766
	48	12.5	2	853	1706
	49	12.5	2	183	366
	50	12.5	2	181	362
	51	12.5	1	152	152
	52	12.5	1	199	199
	53	12.5	2	402	804
	54	12.5	2	442	884
	55	12.5	4	461	1844
	56	12.5	4	417	1668
	57	12.5	4	584	2336
	58	12.5	2	581	1162
	59	12.5	2	603	1206

Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	6.3	32	8.6
	8.0	121.8	52.9
	10.0	70.3	47.7
	12.5	313.5	332.2
CA60	5.0	520.8	88.3
PESO TOTAL (kg)			
CA50	441.3		
CA60	88.3		
Volume de concreto (C-30) = 5.69 m³			
Área de forma = 109.35 m²			

REVISÕES

NUMERO	COMENTARIOS	DATA	AUTOR

CLIENTE/CONTRATANTE:
PREFEITURA MUNICIPAL DE FRANCISCO BELTRÃO

TITULO/EMPREENDIMENTO:
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

CONTRATO:

CÓDIGO:

ÁREA DO PROJETO:
Área existente: 325,23 m²
Área ampliar: 459,65 m²

ESCALA DE PLOTAGEM:
INDICADA

DATA:
28/06/2019

DESENHO:
Gabriel

ART:

PAVIMENTO:

DISCIPLINA:
ESTRUTURAL

CONTEÚDO DA FRANCHA:
DETALHAMENTO ESTRUTURAL - VIGAS BALDRAMES

PROJETARE ENGENHARIA LTDA
CREA PR-43596 / CAU 37134-3
Avenida Florianópolis, 530 - sala 41 - Alvorada
Francisco Beltrão - PR - CEP 85.901-560
Tel: (46) 3524.7920
facebook: projetareeng
instagram: R000000000

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

CONJUNTO:
1/5
2/26

Nº	NOME	COR	PERM
01	BRN	01/18	
02	YELLOW	02/28	
03	GREEN	03/38	
04	CYAN	04/38	
05	BLUE	05/48	
06	MAGENTA	06/38	
07	PINK	07/38	
08	RED	08/38	
09	ORANGE	09/38	
10	BROWN	10/38	

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]