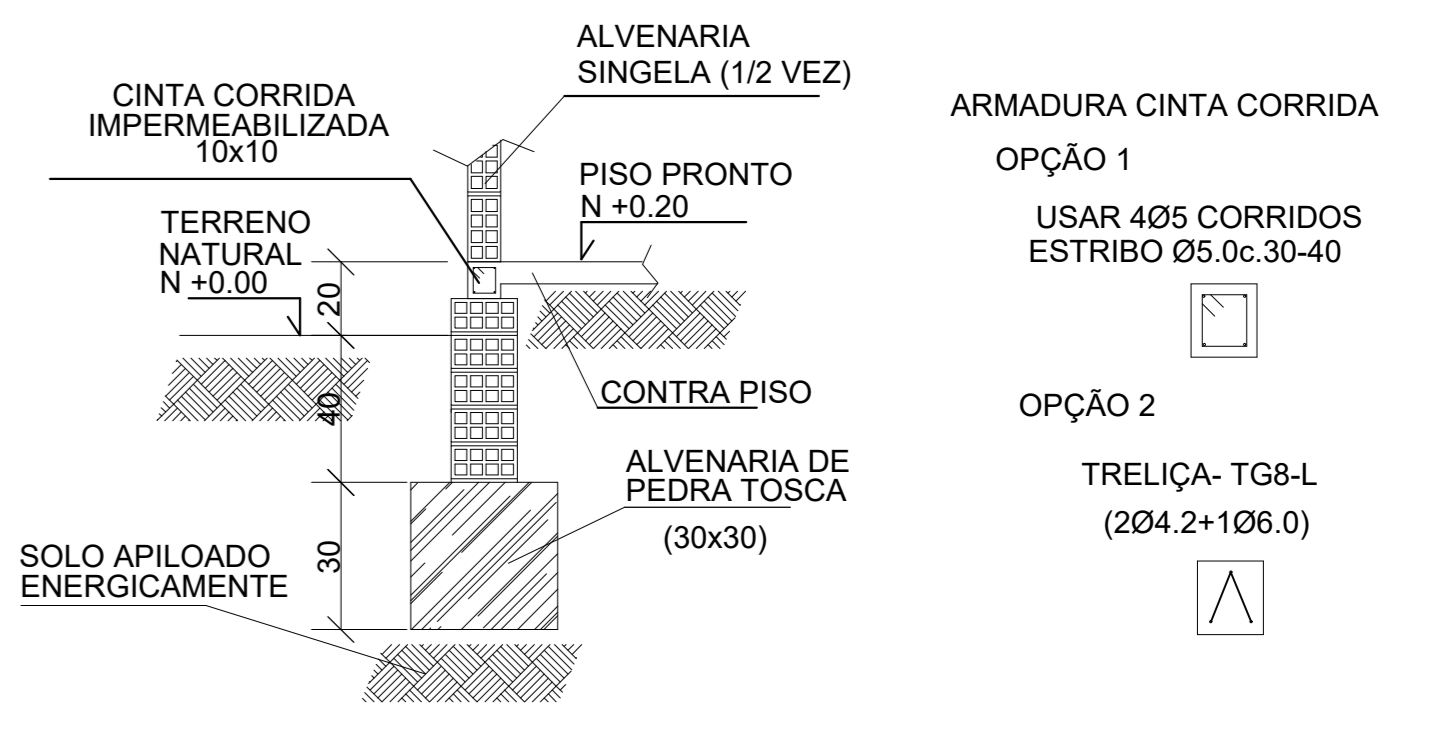
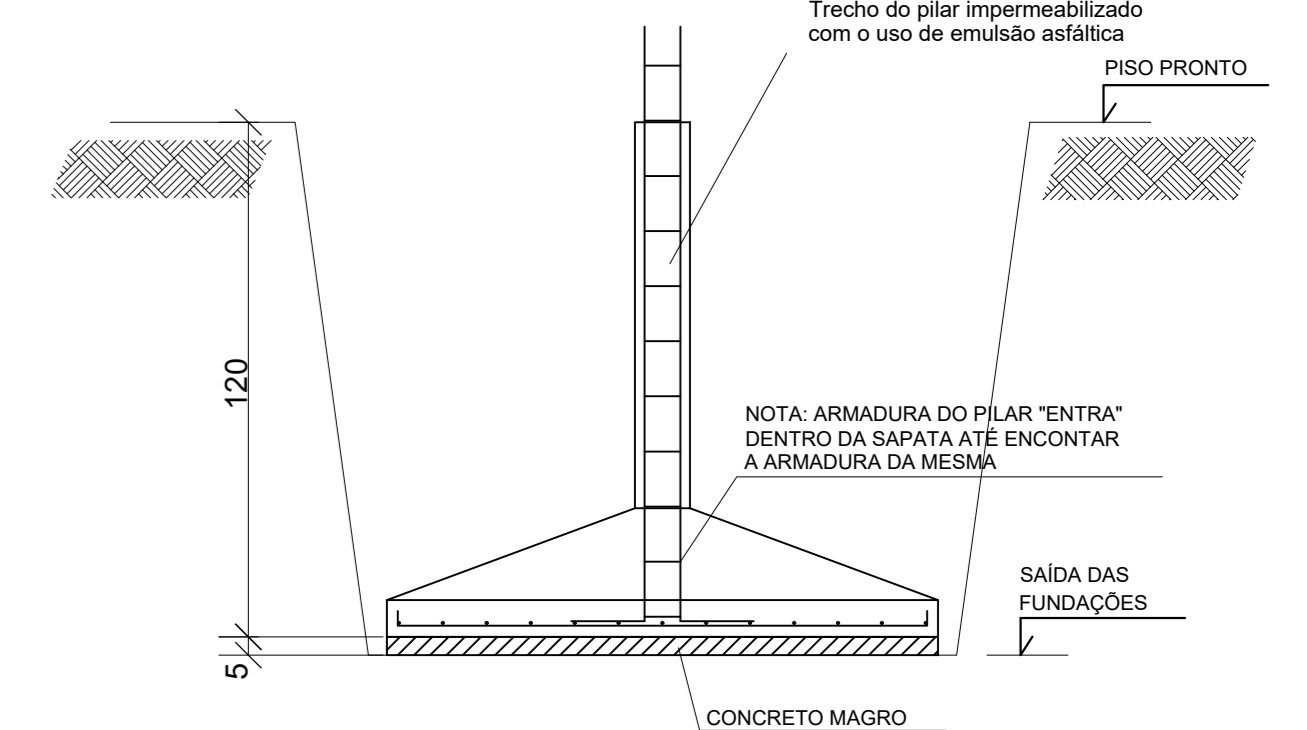


**LEGENDA DAS FUNDAÇÕES**

- PILAR/PILARETE - CONCRETO ARMADO
- ⊗ SAPATA - CONCRETO ARMADO
- A — EIXO DE LOCAÇÃO



**DET. DO ALICERCE CORRIDO**  
ESCALA 1:25



**DETALHE GÊNÉRICO DAS SAPATAS**  
ESCALA 1:25

- NOTAS IMPORTANTES:**
- A EXECUÇÃO DA ESTRUTURA DEVERÁ OBEDECER AS PRESCRIÇÕES DA NBR-6118
  - O RESPECTIVO PROJETO ESTRUTURAL SE COMPLEMENTA COM PROJETO ARQUITETÔNICO E OS PROJETOS COMPLEMENTARES DEVENDO SER ANALIZADAS TODAS AS INTERFERÊNCIAS ENTRE OS PROJETOS ANTES DO INÍCIO DA OBRA
  - COTAS E DIMENSÕES EM CENTÍMETROS
  - Fck = 30MPa
  - RECORRIMENTO: LAJES 2,0 cm
  - VIGAS 2,0 cm
  - PILARES 2,0 cm

**RAIO (r) DE DOBRAMENTO PARA GANCHOS**

2xØ	BITOLA	CASO Ø	CASO Ø
<20mm	Ø	2,5xØ	3xØ
>=20mm	Ø	4xØ	
<=10mm	Ø	1,5xØ	1,5xØ

- TENSÃO ADMISSÍVEL DO SOLO = 0,7 kgf/cm<sup>2</sup> (CONFIRMAR ATRAVÉS DE SONDAAGEM GEOTÉCNICA) HAVENDO DIVERGÊNCIAS ENTRE OS VALORES ADOTADOS OS VALORES EFETIVAMENTE EXISTENTES DEVEM SER CONSULTAR IMEDIATAMENTE O ENGR. CALCULISTA DA ESTRUTURA
- DEVERÁ SER ESCORADA TODA E QUALQUER ESTRUTURA QUE POR VENTURA VENHA A SER COMPROMETIDA COM A EXECUÇÃO DAS CAVAS DE FUNDAÇÕES - COMO EXEMPLO:
  - JAIROS DE SONDAGENS HORMAS
  - REDES DE ABASTECIMENTO
  - JAIROS DE ACESSO
  - ETC.
- DEVERÁ SER DADA ATENÇÃO ESPECIAL NO QUE SE REFERE AS CAVAS DE FUNDAÇÃO QUANTO A PRESENÇA LOCALIZAÇÃO DE SOLOS DE MÁ QUALIDADE (SOLOS ORGÂNICOS), PRESENÇA DE FORMIGUEIROS, RAÍZES DE ÁRVORES/MATERIAS ORGÂNICAS), ANTIGOS POÇOS E CACIMBAS E ATERROS MAL COMPACTADOS
- TODO MATERIAL ESCAVADO DEVERÁ SER DEPOSITADO A UMA DISTÂNCIA MÍNIMA DE 50M DA CAVA
- O SOLO DEVERÁ SER ENRIPECIMENTO APROLADO ANTES DA EXECUÇÃO DAS FUNDAÇÕES E O REATERRO EXECUTADO COM SOLO COMATO EM 30% COMPACTADOS DE 20 EM 20 cm DEVIDAMENTE UMEDECIDOS
- CASO O SOLO CONTENHA TEORES ORGÂNICOS DEVE-SE TROCAR POR MATERIAL ARENOSO DE BOA QUALIDADE
- MODIFICAÇÕES NAS SECOS DAS PECAS OU NAS ARMADURAS E NA SITUAÇÃO DE CARREGAMENTO PREVISTA NO PROJETO ESTRUTURAL OU DE ARQUITETURA SÃO TERMINANTEMENTE PROIBIDAS SEM A PREVIA CONSULTA AO ENGENHEIRO CALCULISTA DA ESTRUTURA
- A UTILIZAÇÃO DESTA PLANILHA EM TODA OU EM PARTE EM OUTRA OBRA QUE NÃO A ESPECIFICADA ABANCO SUEITRA OS RESPONSÁVEIS AS PENAS PREVISTAS NA LEGISLAÇÃO VIGENTE.
- EXIGIMOS CONTROLE ELEVADO DE QUALIDADE E LIMITES RÍGIDOS DE TOLERÂNCIA DE VARIAÇÃO DAS MEDIDAS DURANTE A EXECUÇÃO DA OBRA (NBR 6118:2014 ITEM 7.4.7.4).

**ATENÇÃO**  
É TOTALMENTE PROIBIDO O INÍCIO DA OBRA SEM A CONFIRMAÇÃO DA SONDAGEM GEOTÉCNICA JUNTO AO RESPECTIVO PROJETO E DA DOCUMENTAÇÃO (ART. DE CÁLCULO ESTRUTURAL) PRESENTE NO CANTIERO

**Revisões da prancha**

Nº	Descrição	Por	Data
X	XXXXX	XXXXX	XXXX/XX/XX
X	XXXXX	XXXXX	XXXX/XX/XX
X	XXXXX	XXXXX	XXXX/XX/XX
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**ESTADO DO CEARÁ**  
**PREFEITURA MUNICIPAL DE QUIXADÁ**

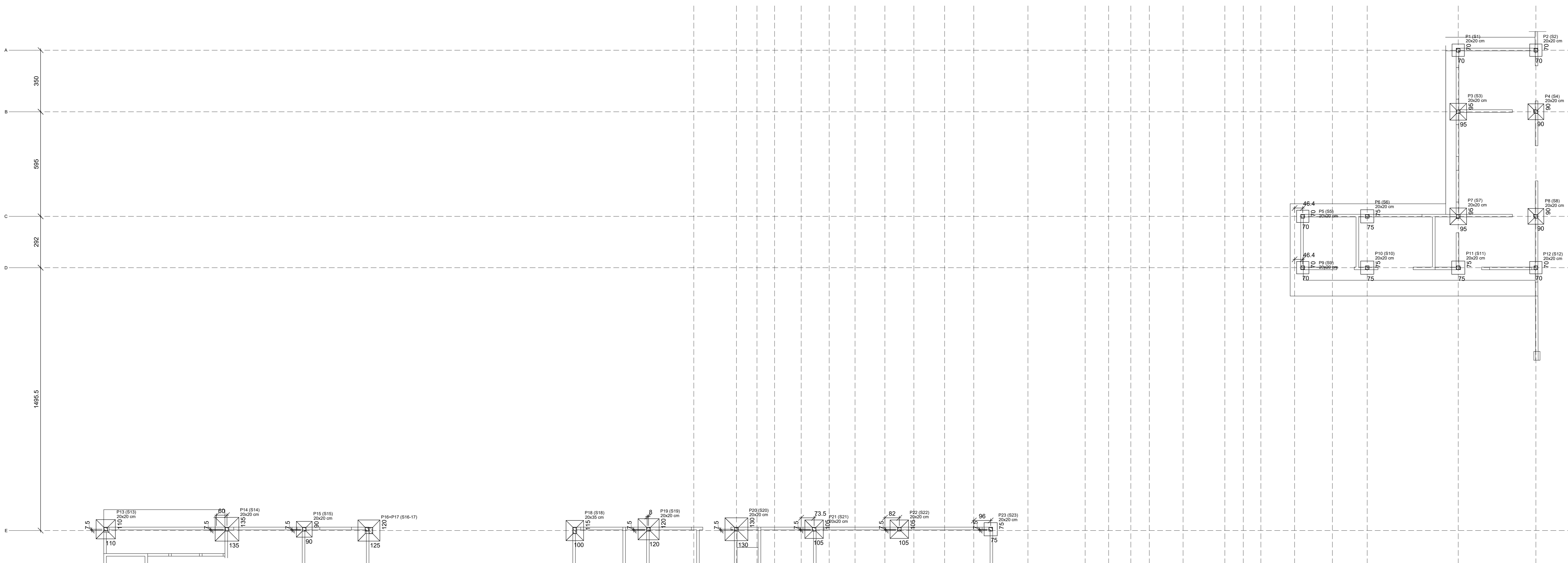
CONCRETO: Fck = 30 MPa  
 OBRA: PREFEITURA MUNICIPAL DE QUIXADÁ - CE  
 TÍTULO: PRÉDIO PARA USO HOSPITALAR  
 LOCALIZAÇÃO: Loja - Parte 1

PROJETO Nº: 1  
 FOLHA Nº: 26  
 ESCALA: 1:100

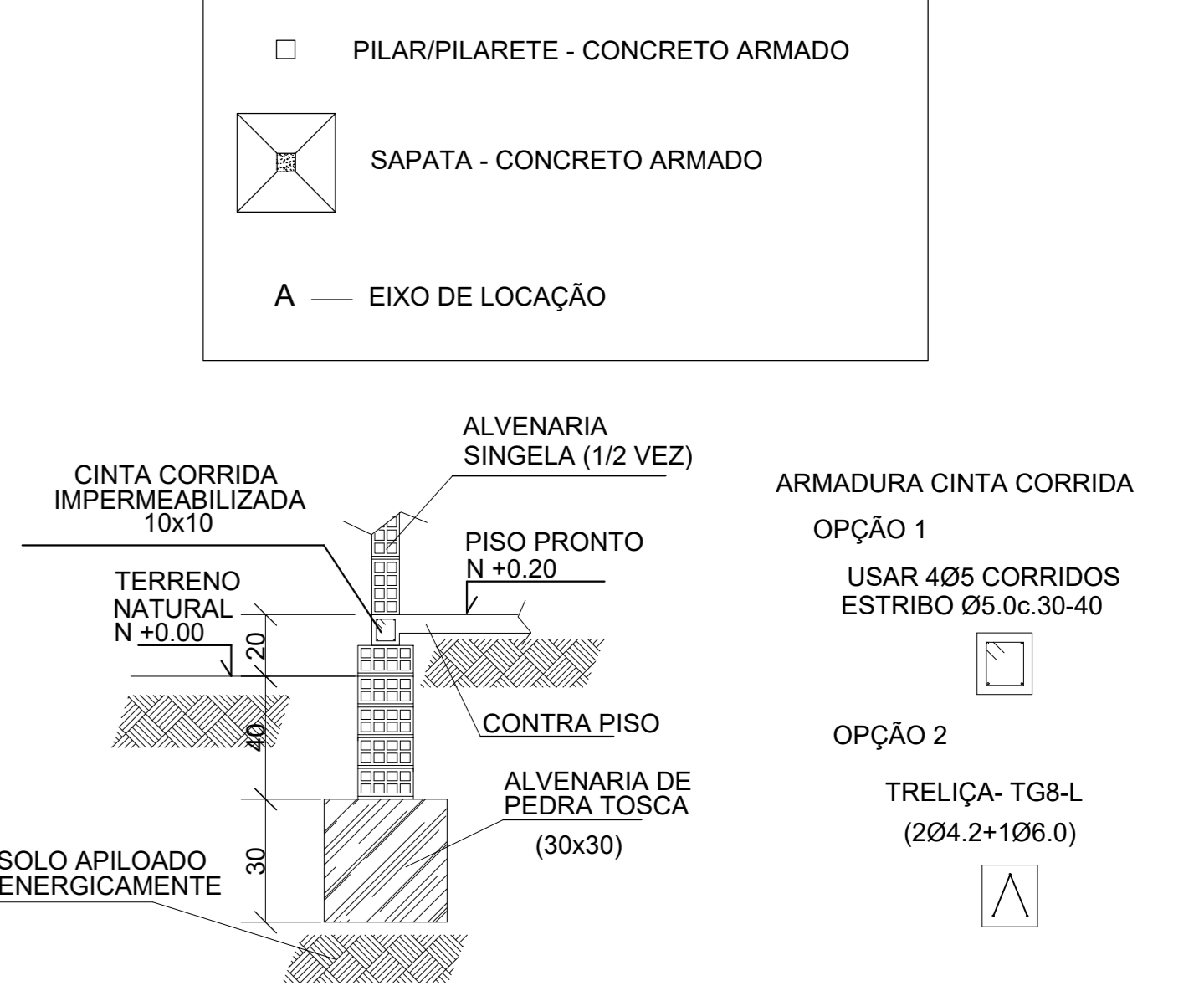
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 SISTEMA: MARRAZ-VIG-01-REV  
 TÍTULO: PROJ. 1

Planta de locação  
escala 1:100

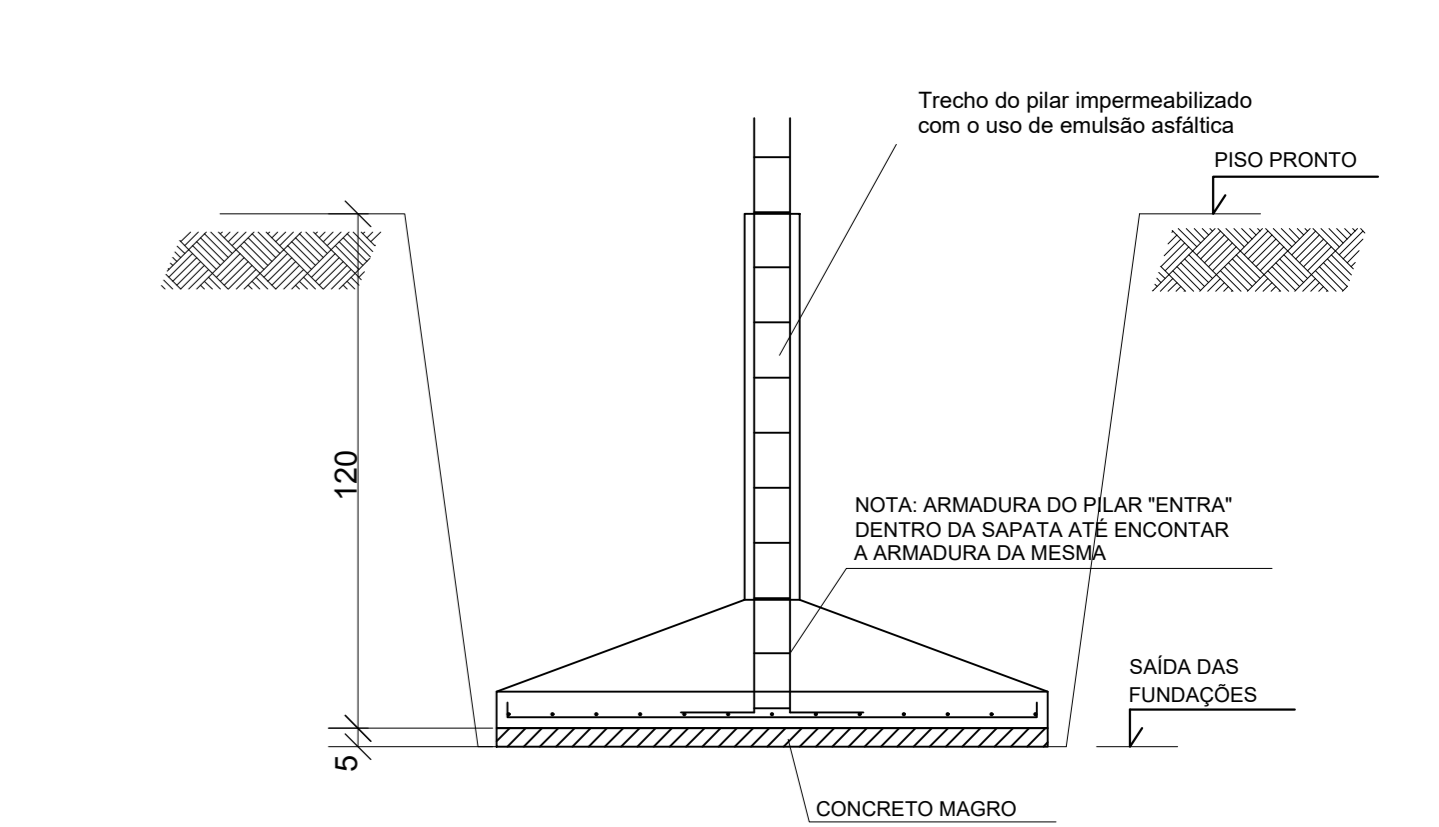




LEGENDA DAS FUNDAÇÕES



DET. DO ALICERCE CORRIDO



DETALHE GÊNICO DAS SAPATAS

- NOTAS IMPORTANTES:**
- A EXECUÇÃO DA ESTRUTURA DEVERÁ OBEDECER AS PRESCRIÇÕES DA NBR-6118
  - O RESPECTIVO PROJETO ESTRUTURAL SE COMPLEMENTA COM O PROJETO ARQUITETÔNICO E OS PROJETOS COMPLEMENTARES DEVENDO SER ANALIZADAS TODAS AS INTERFERÊNCIAS ENTRE OS PROJETOS ANTES DO INÍCIO DA OBRA
  - COTAS E DIMENSÕES EM CENTÍMETROS
  - Fck= 30MPa
  - RECOBRIMENTO: LAJES 2,0 cm VIGAS 2,0 cm PILARES 2,0cm

RAIO (r) DE DOBRAMENTO PARA GANCHOS

BITOLA Ø	NBR-6118(Item 6.3.4.1)	
	CA50	CA60
<20mm	2,5xØ	3xØ
>=20mm	4xØ	
estribo <=10mm	1,5xØ	1,5xØ

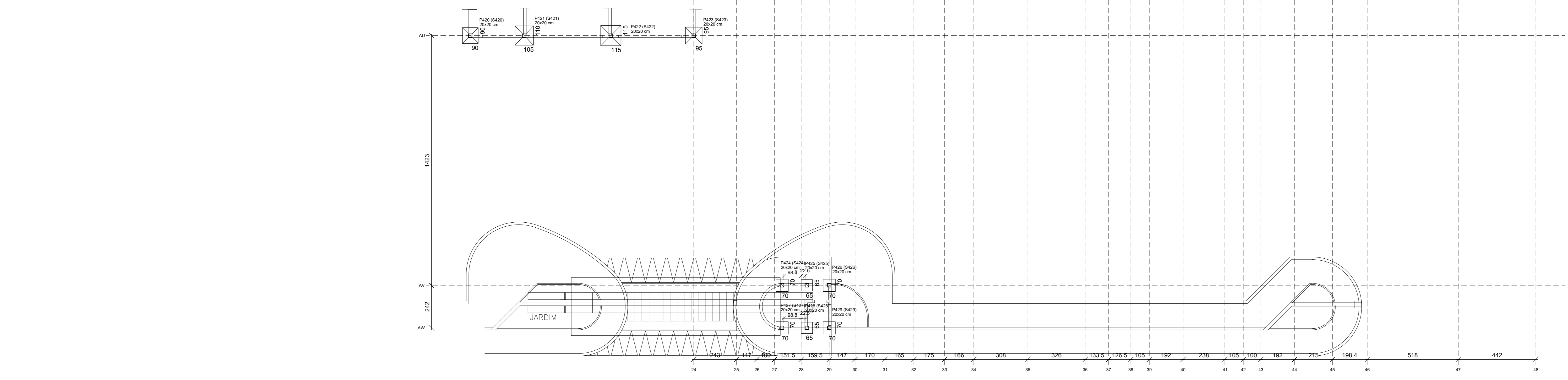
- TENSÃO ADMISSÍVEL DO SOLO = 0,7 Kg/cm<sup>2</sup> (CONFIRMAR ATRAVÉS DE SONDAGEM GEOTÉCNICA) HAVENDO DIVERGÊNCIAS ENTRE OS VALORES ADOTADOS OS VALORES EFETIVAMENTE EXISTENTES DEVE-SE CONSULTAR IMEDIATAMENTE O ENGE. CALCULISTA DA ESTRUTURA
- DEVERÁ SER ESCORADA TODA E QUALQUER ESTRUTURA QUE POR VENTURA VENHA A SER COMPROMETIDA COM A EXECUÇÃO DAS CAVAS DE FUNDAÇÕES. COMO EXEMPLO: ABRIGOS DE ENFERMAGENS, REDES DE ABASTECIMENTO, VIAS DE ACESSO, ETC.
- DEVERÁ SER DADA ATENÇÃO ESPECIAL NO QUE SE REFERE AS CAVAS DE FUNDAÇÃO QUANTO A PRESENÇA LOCALIZADA DE SOLOS DE MÁ QUALIDADE ( SOLOS ORGÂNICOS ) PRESENÇA DE FORMIGUEIROS, RAÍZES DE ÁRVORES(MATERIAS ORGÂNICAS) ANTIGOS POÇOS E CACIMBAS E ATERROS MAL COMPACTADOS
- TODOS MATERIAIS ESCAVADOS DEVERÃO SER DEPOSITADOS A UMA DISTÂNCIA MÍNIMA DE 30M DA CAVA ESCAVADA
- O SOLO DEVERÁ SER ENERGIATICAMENTE APOIADO ANTES DA EXECUÇÃO DAS FUNDAÇÕES E O REATERRO EXECUTADO COM SOLO CIMENTADO EM 30% COMPACTADOS DE 20 EM 20 cm DEVIDAMENTE UMEDECIDOS
- CASO O SOLO CONTENHA TEORES ORGÂNICOS DEVE-SE TROCAR POR MATERIAL ARRODO DE BOM QUALIDADE
- MODIFICAÇÕES NAS SEÇÕES DAS PECAS OU NAS ARMADURAS E NA SITUAÇÃO DE CARREGAMENTO PREVISTA NO PROJETO ESTRUTURAL OU DE ARQUITETURA SÃO TERMINANTEMENTE PROIBIDAS SEM A PREVIA CONSULTA AO ENGENHEIRO CALCULISTA DA ESTRUTURA.
- A UTILIZAÇÃO DESTA PLANILHA NÃO QUER EM PARTE EM OUTRA OBRA QUE NÃO A ESPECIFICADA ABAIXO SUELTOS OS RESPONSABILIZAVIS AS PENAS PREVISTAS NA LEGISLAÇÃO VIGENTE.
- EXIGIMOS CONTROLE ELEVADO DE QUALIDADE E LIMITES RÍGIDOS DE TOLERÂNCIA DE VARIABILIDADE DAS MEDIDAS DURANTE A EXECUÇÃO DA OBRA (NBR 6118/2014 ITEM 7.4.7.4).

**ATENÇÃO**

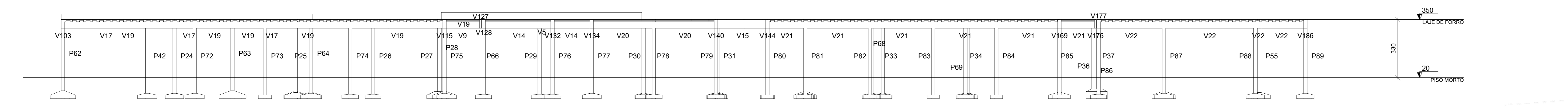
É TOTALMENTE PROIBIDO O INÍCIO DA OBRA SEM A CONFIRMAÇÃO DA SONDAGEM GEOTÉCNICA JUNTO AO RESPECTIVO PROJETO E DA DOCUMENTAÇÃO (ART DE CÁLCULO ESTRUTURAL) PRESENTE NO CANTIERO

Revisões da prancha

Nº	Descrição	Por	Data
X	XXXXX	XXXXX	XXXX/XX/XX
X	XXXXX	XXXXX	XXXX/XX/XX
X	XXXXX	XXXXX	XXXX/XX/XX
0	Emissão Inicial	<>	<>
Nº	Comentário	Autor	Data



Planta de localização escala 1:100



Corte A-A escala 1:100

**ESTADO DO CEARÁ**  
**PREFEITURA MUNICIPAL DE QUIXADÁ**

CONCRETO: Fck = 30 MPa

CLIENTE: PREFEITURA MUNICIPAL DE QUIXADÁ - CE

OBRA: PRÉDIO PARA USO HOSPITALAR

TÍTULO: <>

PROJETO Nº: 2

TOTAL: 26

PÁGINA: 00

DATA: 01/03/2024

ESCALA: 1:50

DESENHO: MARCELO VIGORINI

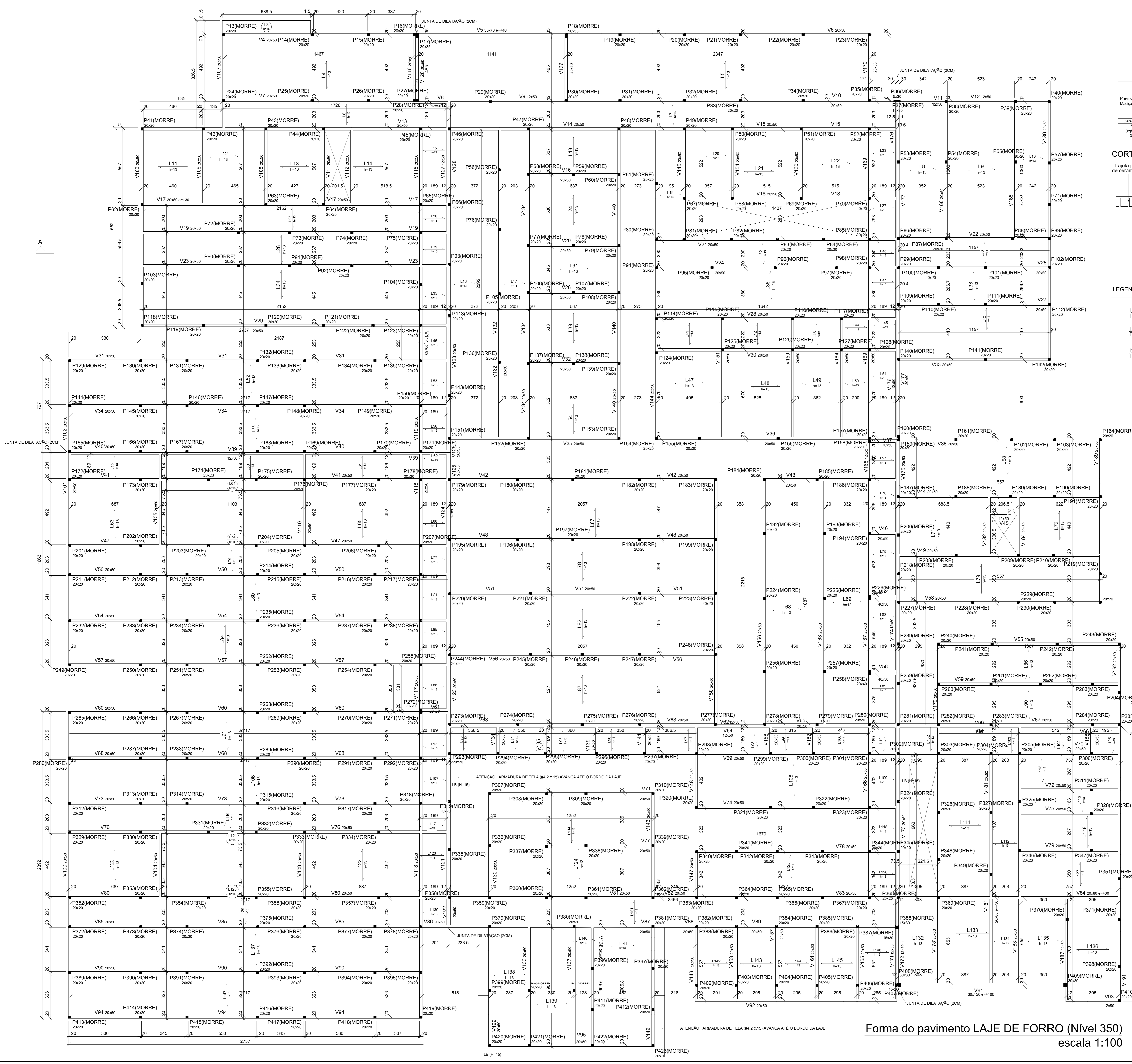
CODICE: PROJ

PROJETO Nº: 2

TOTAL: 26

PÁGINA: 00



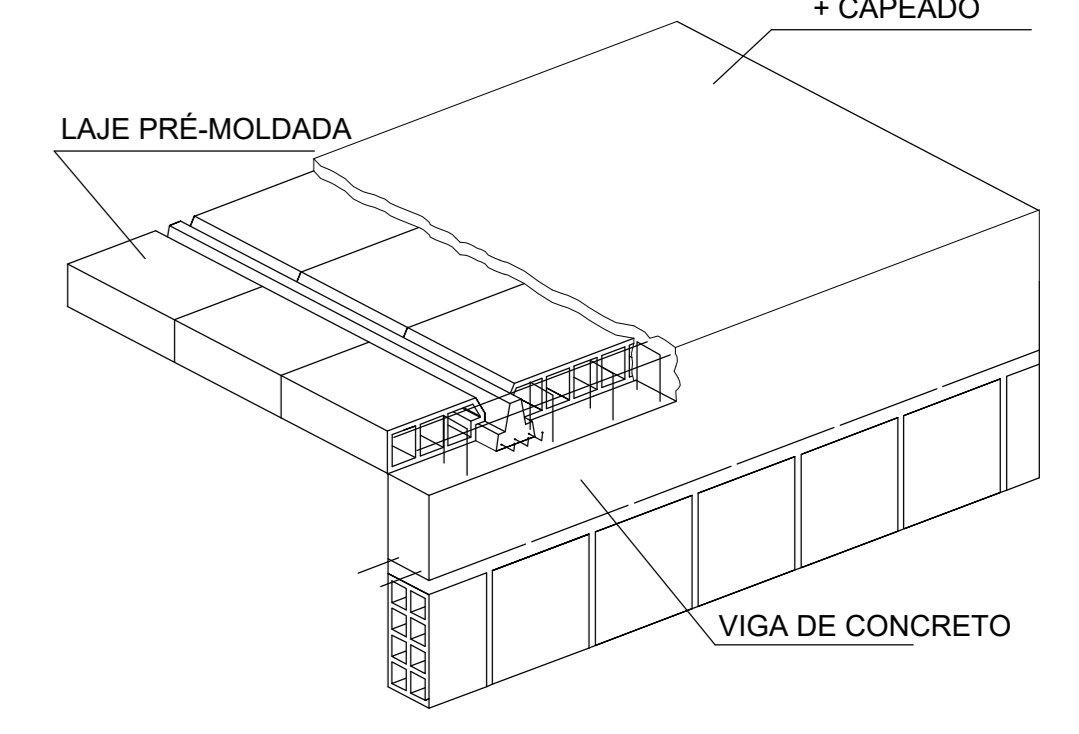


**DETALHE DA LIGAÇÃO DA LAJE x VIGA**

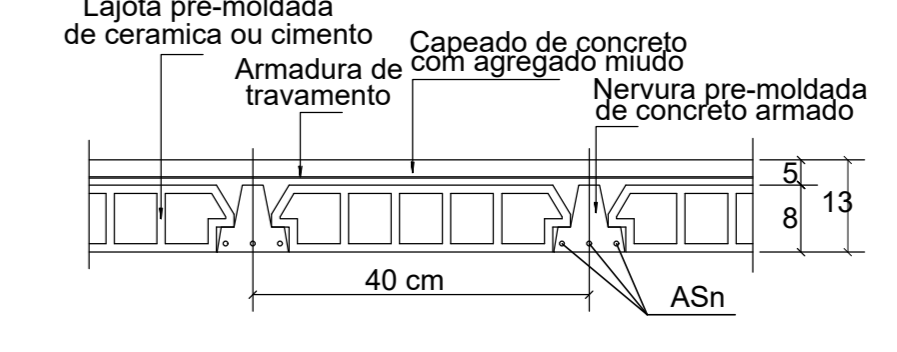
Tipo	Área de laje (cm²)	Área de Enchimento (cm²)	Área (m²)
Pré-moldada	13	882000	4412,16
Marcia	15	-	53,18

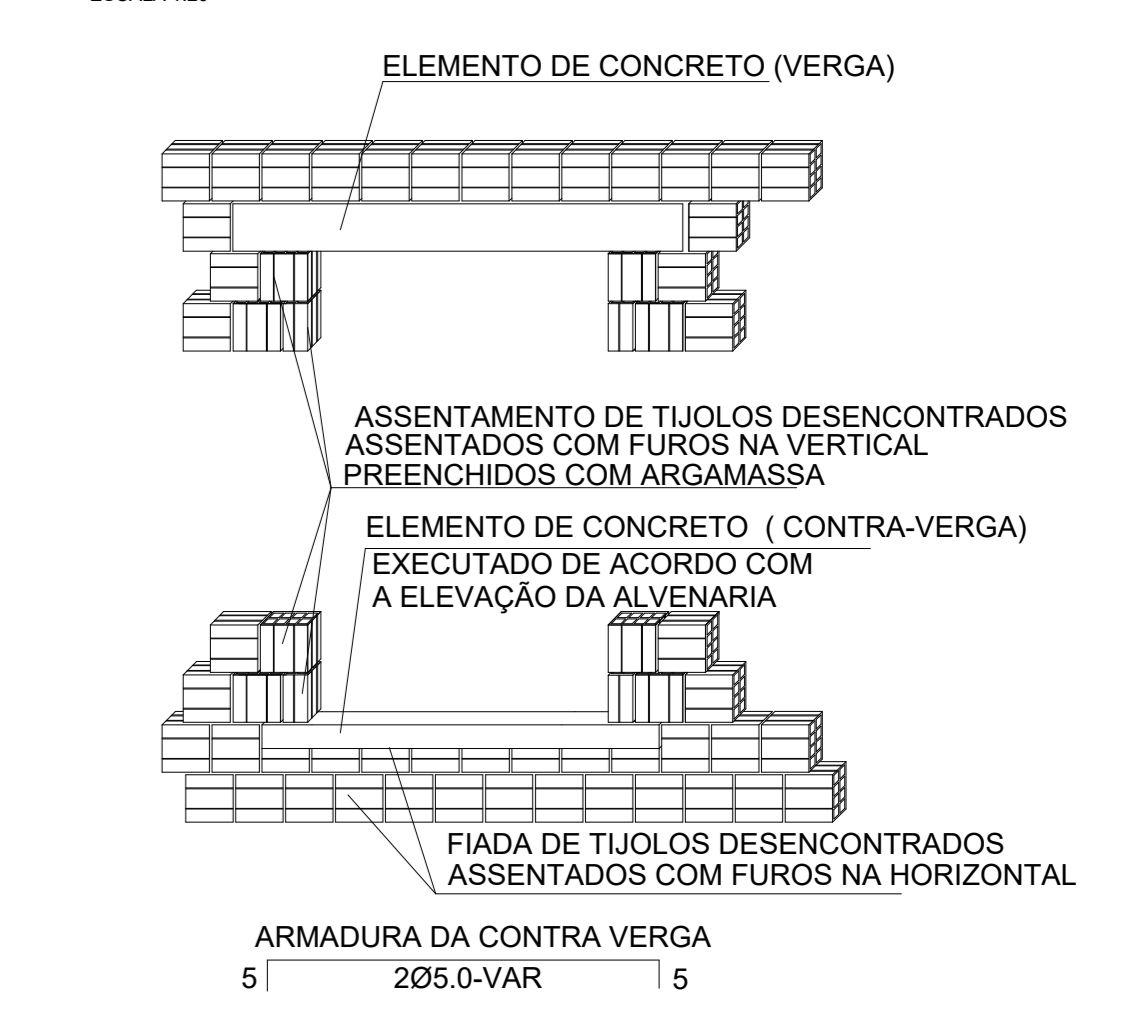
Características dos materiais	
f <sub>ck</sub> (MPa)	30
E <sub>c</sub> (kgf/cm²)	268384



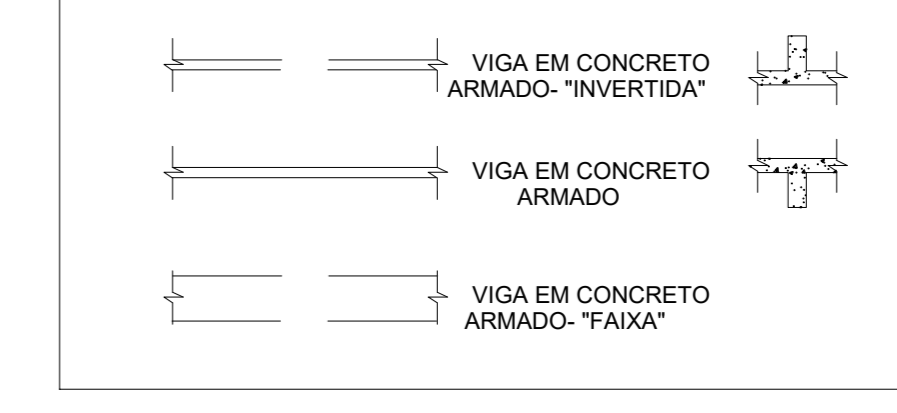
**CORTE TÍPICO DAS LAJES**



**DETALHE DO ARREIMATE DE PORTAS E JANELAS**



**LEGENDA DAS VIGAS**



**NOTAS IMPORTANTES:**

- A EXECUÇÃO DA ESTRUTURA DEVERÁ OBEDECER AS PRESCRIÇÕES DA NBR-818
  - O RESPECTIVO PROJETO ESTRUTURAL SE COMPLEMENTA COM PROJETO ARQUITETÔNICO E OS PROJETOS COMPLEMENTARES DEVENDO SER ANALIZADAS TODAS AS INTERFERÊNCIAS ENTRE OS PROJETOS ANTES DO INÍCIO DA OBRA
  - CORTAS E DIMENSÕES EM CENTÍMETROS, BITOLAS EM MILÍMETROS
  - FIC = 30MPa
  - RECORRIMENTO: LAJES: 2,0 cm
  - VIGAS: 2,0 cm
  - PLALRES: 2,0 cm
- RAIO (r) DE DOBRAMENTO PARA GANCHOS
- | BITOLA | CASO  | CABO  |
|--------|-------|-------|
| >20mm  | 2,5xØ | 3xØ   |
| >=20mm | 4xØ   | -     |
| <=10mm | 1,5xØ | 1,5xØ |
- AS FORMAS E ESCORAMENTOS DEVERÃO SER PROJETADOS DE MODO A NÃO SOFREREM DEFORMAÇÕES EXCESSIVAS DEVIDAS AO SEU PESO AO PESO DO CONCRETO LANÇADO E AS CARGAS ACIDENTAIS QUE POSSAM ATUAR DURANTE A EXECUÇÃO DA OBRA
  - A REMOÇÃO DO ESCORAMENTO DEVERÁ SER GRADUAL, APÓS 20 DIAS DO LANÇAMENTO DO CONCRETO E DEVERÁ RESPEITAR O COMPORTAMENTO ESTRUTURAL DA PEÇA
  - NO CASO DE VIGAS E LAJES:
    - DESFORMA DO CENTRO PARA AS EXTREMIDADES (DE FORMA GRADUAL)
    - NO CASO DE MARQUISSES E VIGAS EM BALANÇO: DESFORMA DA EXTREMIDADE EM DIREÇÃO AO PIVOTE (FORMA GRADUAL)
  - DEVERÁ SER LOCADA TÁBUAS APOIADAS TRANSVERSALMENTE SOBRE AS NERVURAS DE MODO A EVITAR A QUEBRA DOS ELEMENTOS ESTRUTURAIS (TUILOS E NERVURAS) E ACIDENTES COM OPERÁRIOS, GARANTINDO ASSIM O TRÁNSITO SEGURO DURANTE A MONTAGEM E CONCRETAGEM DAS LAJES
  - MONTAR AS LAJES PRÉ-MOLDADAS ANTES DA CONCRETAGEM TOTAL DAS VIGAS
  - INDICAM O SENTIDO DE MONTAGEM DAS LAJES PRÉ-MOLDADAS
    - NA LINHA CENTRAL DA LAJE
    - NAS VIGAS NOS LOCOS INDICADOS EM PLANTA
  - ADOPTAR ARMADURA DE COSTURA ENTRE AS NERVURAS DE 95,0 c. 20 NO MÍNIMO, OU CONFORME RECOMENDAÇÃO DO FABRICANTE
  - A FORMA, TUILOS E NERVURAS DEVERÃO ESTAR BEM MOLHADOS ANTES DA CONCRETAGEM DAS LAJES E VIGAS
  - NOS PRIMEIROS DEZ (10) DIAS A PARTIR DO LANÇAMENTO DO CONCRETO DEVERÁ SER FEITA SUA CURA MANTENDO-SE UMEDECIDA A SUPERFÍCIE OU PROTEGIDA COM PELÍCULA IMPENÁVEL AGUARDANDO-SE PELO MENOS 2 VEZES AO DIA
  - MODIFICAÇÕES NAS SEÇÕES DAS PEÇAS OU NAS ARMADURAS NA SITUAÇÃO DE CARREGAMENTO PREVIAM PROJETO ESTRUTURAL OU DE ARQUITETURA SÃO TERMINANTEMENTE PROIBIDAS SEM A PRÉVIA CONSULTA AO ENCO. CALCULISTA DA ESTRUTURA
  - A UTILIZAÇÃO DESTES PROJETO NO TODO OU EM PARTE EM OUTRA OBRA QUE NÃO A ESPECIFICADA ABAIXO QUALIFICARÁ OS RESPONSÁVEIS AS PENAS PREVISTAS NA LEGISLAÇÃO VIGENTE
  - EXIGIMOS CONTROLE ELEVADO DE QUALIDADE E LIMITES RÍGIDOS DE TOLERÂNCIA DE VARIABILIDADE DAS MEDIDAS DURANTE A EXECUÇÃO DA OBRA (NBR 6118:2014 ITEM 7.4.7.4).

Revisões da prancha

Nº	Descrição	Elaborado	Data
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X	XXXXX	XXXXX	XXXXXX
0	Emissão Final	<>	<>
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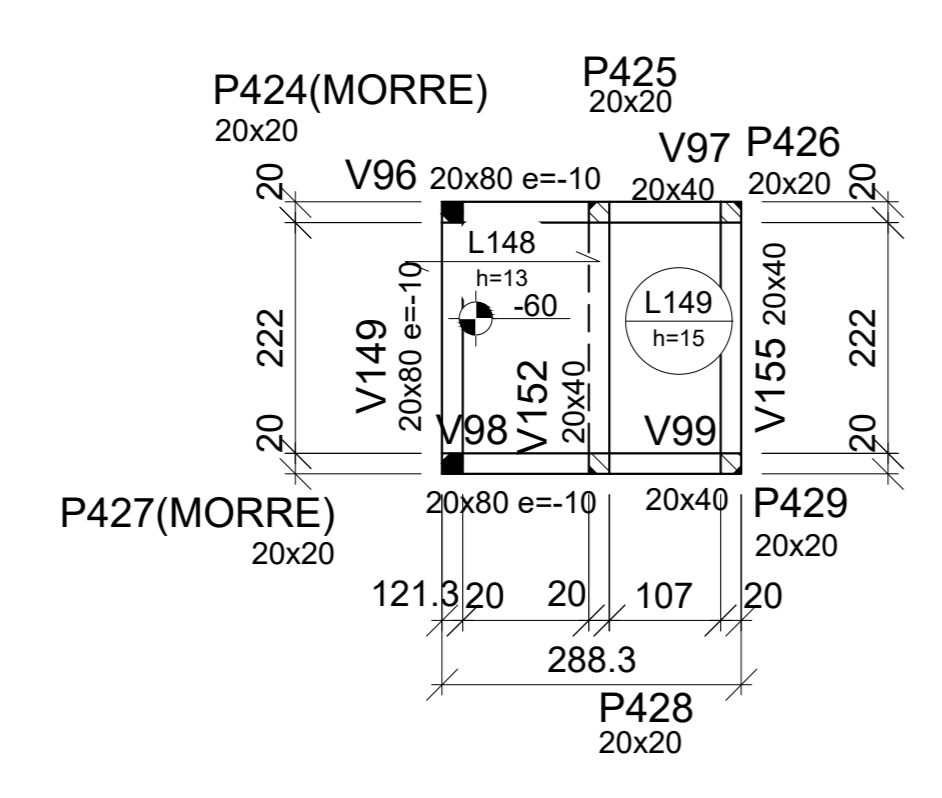
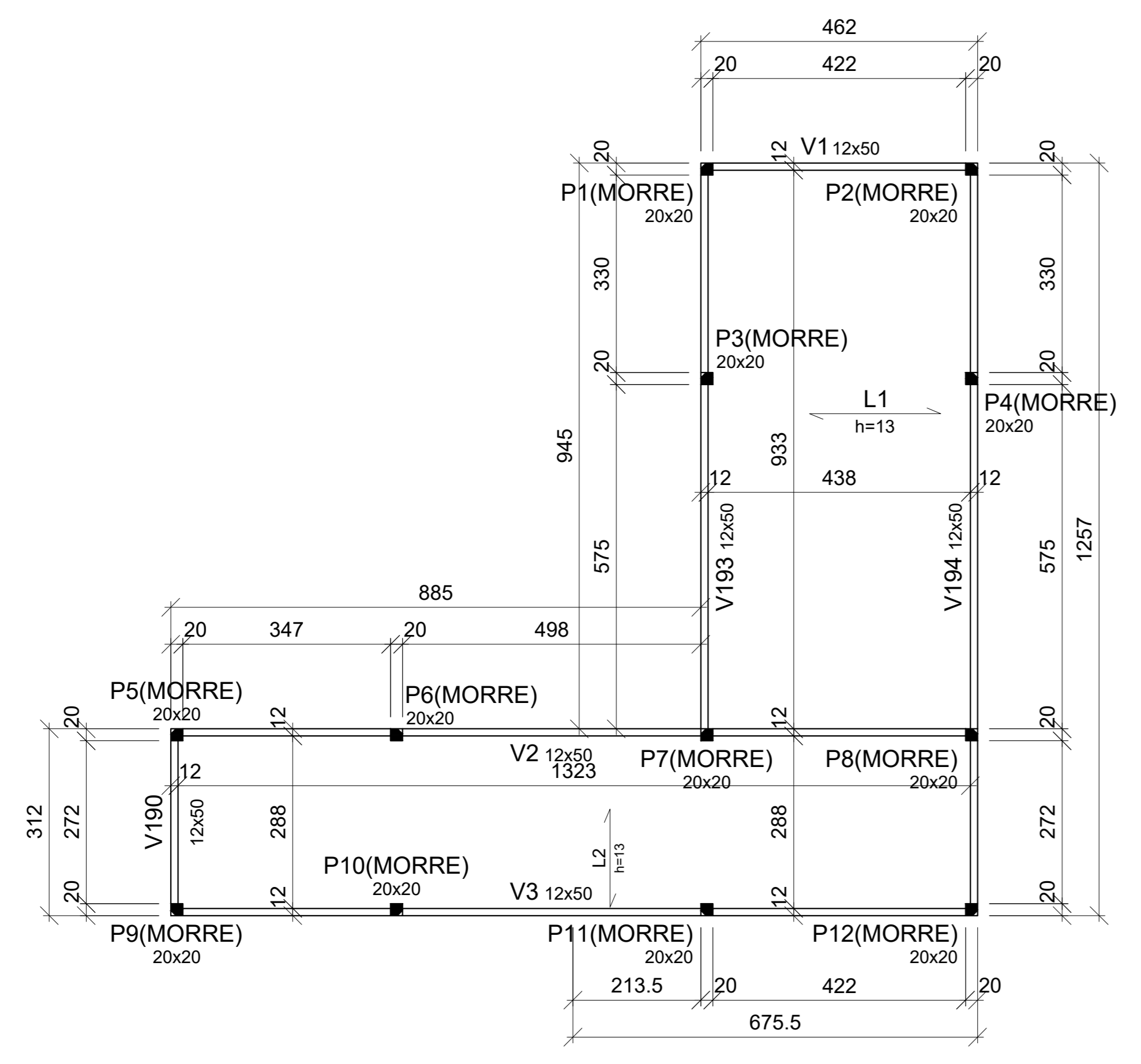
**ESTADO DO CEARÁ**  
**PREFEITURA MUNICIPAL DE QUIXADÁ**

CONCRETO: FIC = 30 MPa  
 PROJETO Nº: 9  
 OBRAS: PREFEITURA MUNICIPAL DE QUIXADÁ - CE  
 PRÉDIO PARA USO HOSPITALAR  
 Formas-LAJE DE FORRO

01/03/2024 ESCALA: 1:50  
 PROJETO Nº: 9  
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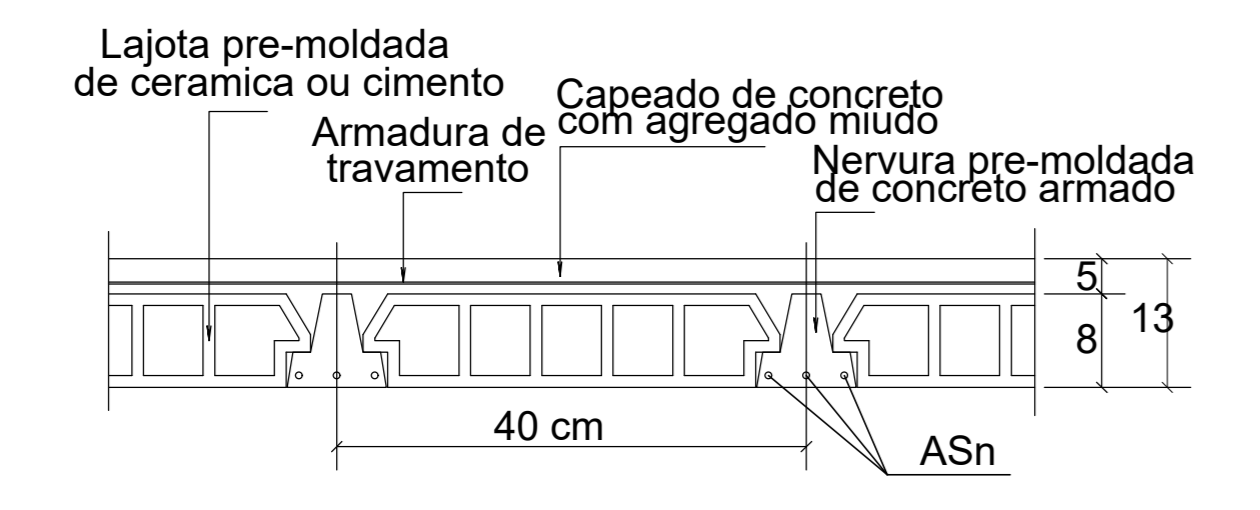
Forma do pavimento LAJE DE FORRO (Nível 350) escala 1:100



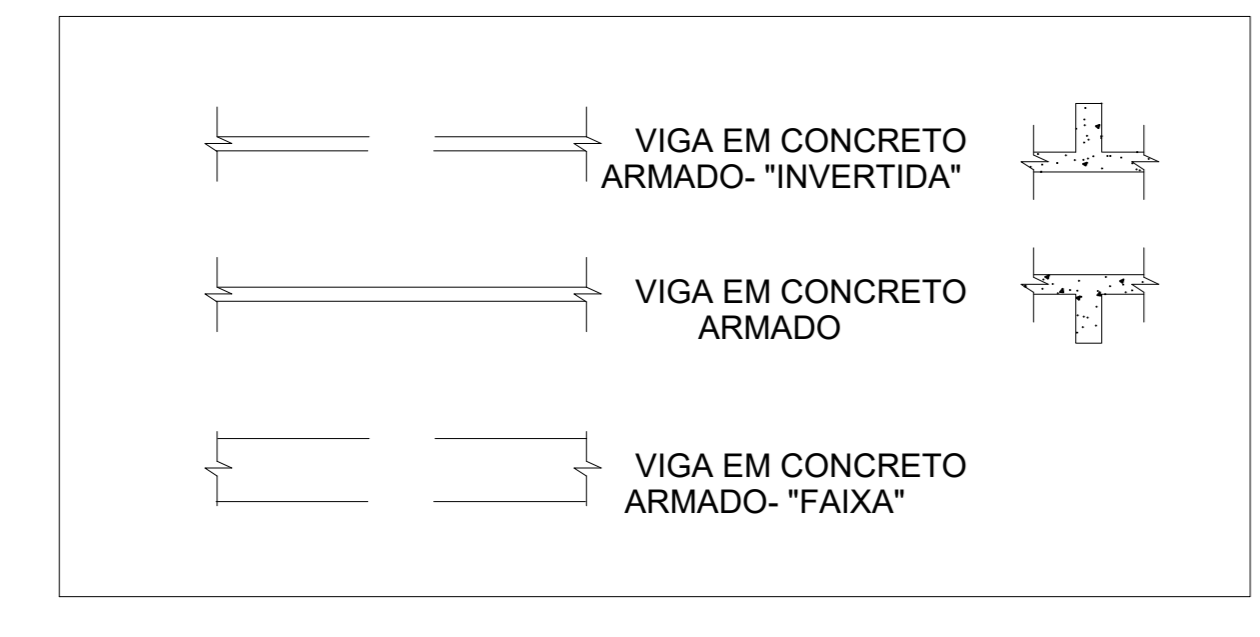


Forma do pavimento LAJE DE FORRO (Nível 350)  
escala 1:100

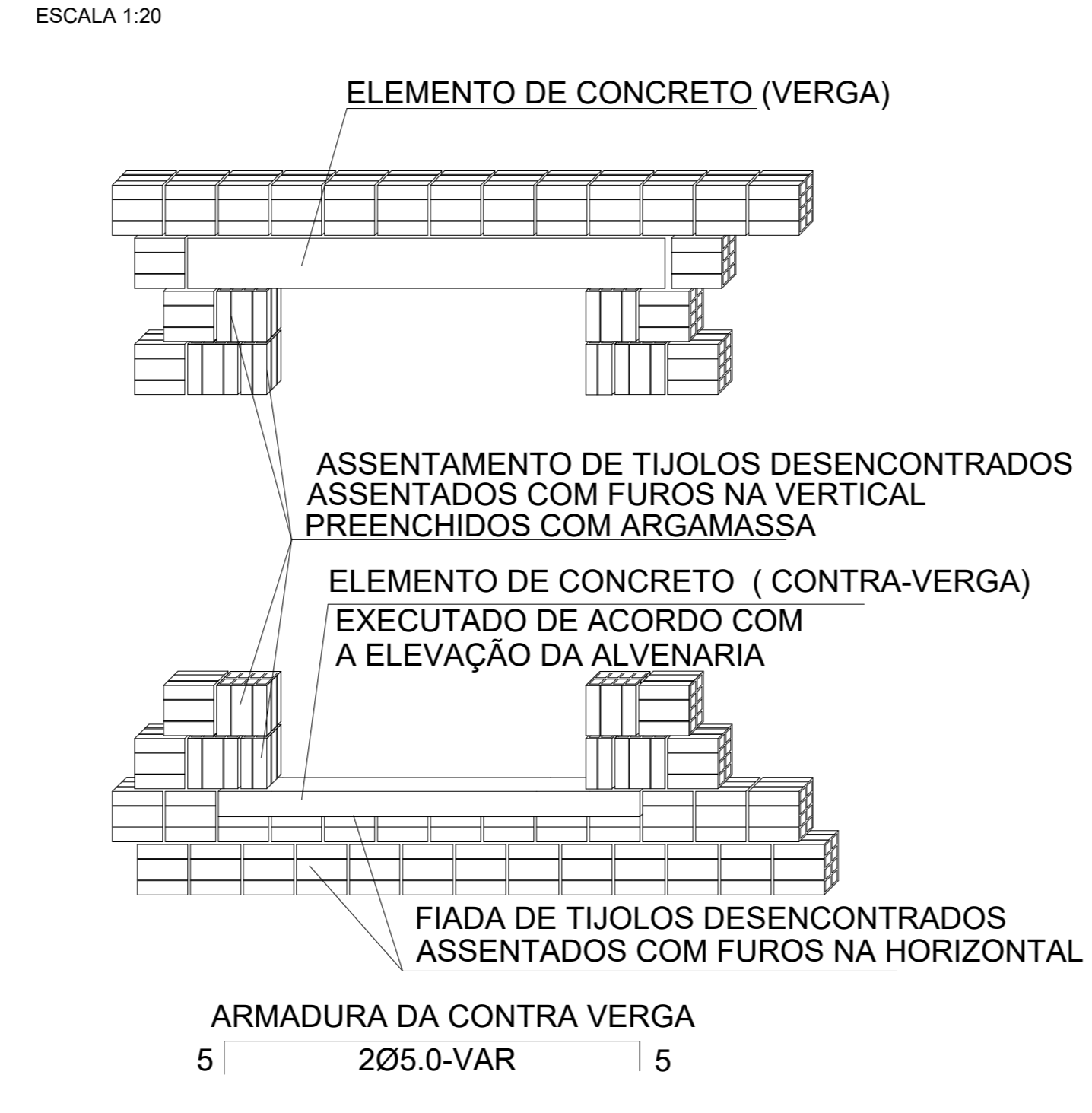
CORTE TÍPICO DAS LAJES



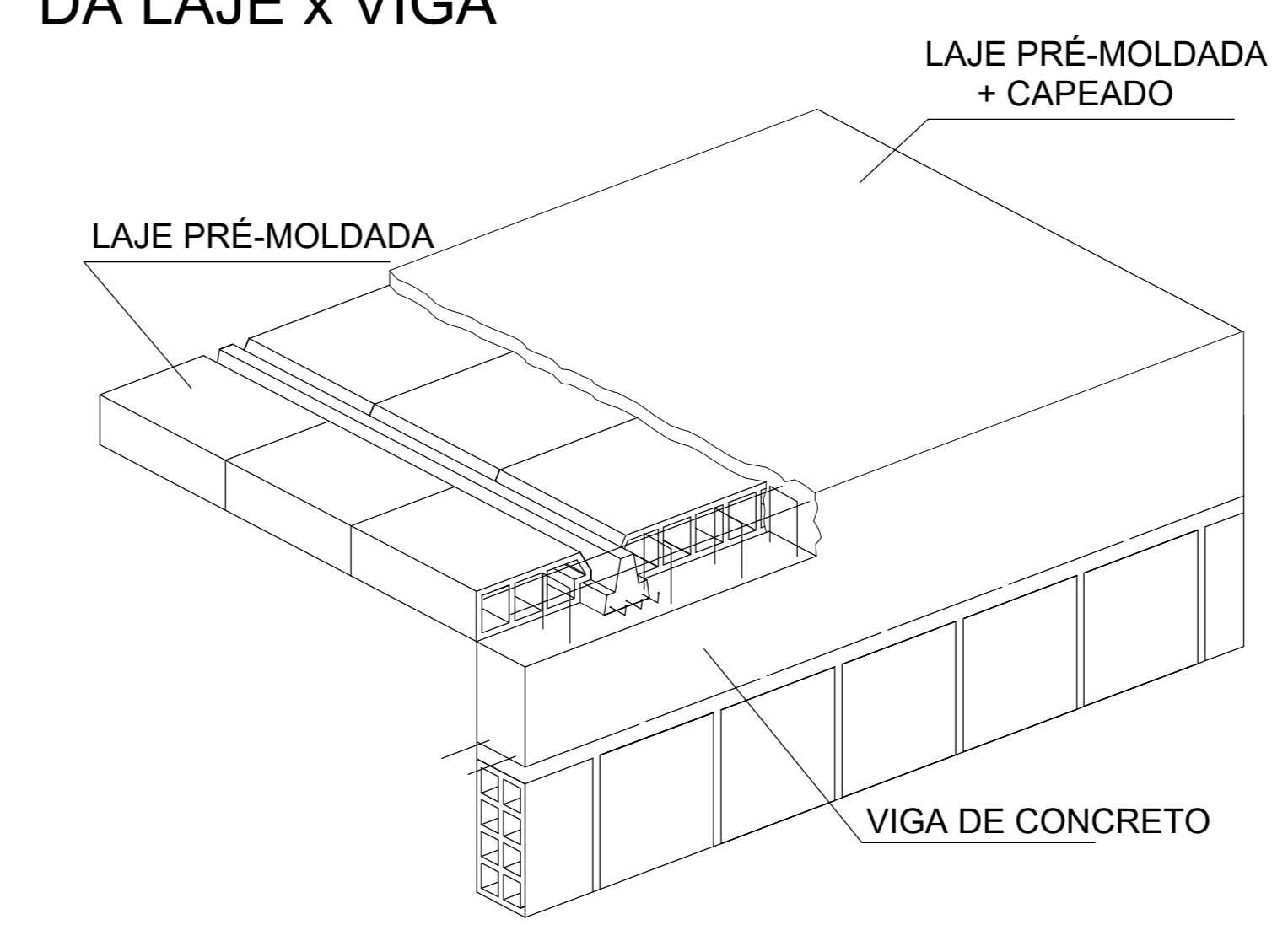
LEGENDA DAS VIGAS



DETALHE DO ARREIMATE DE PORTAS E JANELAS



DETALHE DA LIGAÇÃO DA LAJE x VIGA



NOTAS IMPORTANTES:

- A EXECUÇÃO DA ESTRUTURA DEVERÁ OBEDECER AS PRESCRIÇÕES DA NBR-6118
- O RESPECTIVO PROJETO ESTRUTURAL SE COMPLEMENTA COM PROJETO ARQUITETÔNICO E OS PROJETOS COMPLEMENTARES DEVENDO SER ANALIZADAS TODAS AS INTERFERÊNCIAS ENTRE OS PROJETOS ANTES DO INÍCIO DA OBRA
- COTAS E DIMENSÕES EM CENTÍMETROS, BITOLAS EM MILÍMETROS
- Fck= 30 MPa
- RECOBRIMENTO: LAJES:2,0 cm  
VIGAS:2,0 cm  
PILARES:2,0cm

RAIO (r) DE DOBRAMENTO PARA GANCHOS

2xØ	NBR-6118(tem 6.3.4.1)	
	BITOLA Ø	CA50 CA60
8xØ	<20mm	2,5xØ 3xØ
	>=20mm	4xØ
8xØ	estirbo <=10mm	1,5xØ 1,5xØ

- AS FORMAS E ESCORAMENTOS DEVERÃO SER PROJETADOS DE MODO A NÃO SOFREREM DEFORMAÇÕES EXCESSIVAS DEVIDAS AO SEU PESO, AO PESO DO CONCRETO LANÇADO E AS CARGAS ACIDENTAIS QUE POSSAM ATUAR DURANTE A EXECUÇÃO DA OBRA
- A REMOÇÃO DO ESCORAMENTO DEVERÁ SER GRADUAL, APÓS 20 DIAS DO LANÇAMENTO DO CONCRETO E DEVERÁ RESPEITAR O COMPORTAMENTO ESTRUTURAL DA PEÇA
- NO CASO DE VIGAS E LAJES DESFORMA DO CENTRO PARA AS EXTREMIDADES (DE FORMA GRADUAL)
- NO CASO DE MARQUISES E VIGAS EM BALANÇO DESFORMA DA EXTREMIDADE EM DIREÇÃO AO POIO(DE FORMA GRADUAL)
- DEVERÁ SER LOCADA TÁBUAS APOIADAS TRANSVERSALMENTE SOBRE AS NERVURAS DE MODO A EVITAR A QUEBRA DOS ELEMENTOS ESTRUTURAIS (TÍJLOS E NERVURAS) E ACIDENTES COM OPERÁRIOS, GARANTINDO ASSIM O TRÂNSITO SEGURO DURANTE A MONTAGEM E CONCRETAGEM DAS LAJES
- MONTAR AS LAJES PRÉ-MOLDADAS ANTES DA CONCRETAGEM TOTAL DAS VIGAS
- INDICAM O SENTIDO DE MONTAGEM DAS LAJES PRÉ-MOLDADAS
- CONTRA-FLECHA EM CENTÍMETROS A SER ADOTADA
- NAS LINHAS CENTRAIS DA LAJE
- NAS VIGAS NOS LOCAIS INDICADOS EM PLANTA
- ADOTAR ARMADURA DE COSTURA ENTRE AS NERVURAS DE Ø5,0 c. 20 NO MÍNIMO, OU CONFORME RECOMENDAÇÃO DO FABRICANTE
- A FORMA, TÍJLOS E NERVURAS DEVERÃO ESTAR BEM MOLHADOS ANTES DA CONCRETAGEM DAS LAJES E VIGAS
- NOS PRIMEIROS DEZ(10) DIAS A PARTIR DO LANÇAMENTO DO CONCRETO DEVERÁ SER FEITA SUA CURA, MANTENDO-SE UMEDECIDA A SUPERFÍCIE OU PROTEGENDO-A COM PELÍCULA IMPEMEÁVEL AGUANDO-SE PELO MENOS 2 VEZES AO DIA
- MODIFICAÇÕES NAS SEÇÕES DAS PEÇAS OU NAS ARMADURAS E NA SITUAÇÃO DE CARREGAMENTO PREVISTA NO PROJETO ESTRUTURAL OU DE ARQUITETURA SÃO TERMINANTEMENTE PROIBIDAS SEM A PRÉVIA CONSULTA AO ENGO. CALCULISTA DA ESTRUTURA.
- A UTILIZAÇÃO DESTES PROJETO NO TODO OU EM PARTE EM OUTRA OBRA QUE NÃO A ESPECIFICADA ABAIXO SUJEITARÁ OS RESPONSÁVEIS ÀS PENAS PREVISTAS NA LEGISLAÇÃO VIGENTE.
- EXIGIMOS CONTROLE ELEVADO DE QUALIDADE E LIMITES RÍGIDOS DE TOLERÂNCIA DE VARIABILIDADE DAS MEDIDAS DURANTE A EXECUÇÃO DA OBRA (NBR 6118/2014 ÍTEM 7.4.7.4).

Revisões da prancha

Nº	Comentário	Autor	Data
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X	XXXXX	XXXXX	XXXXXX
X	XXXXX	XXXXX	XXXXXX
0	Emissão inicial	<>	<>

ESTADO DO CEARÁ  
PREFEITURA MUNICIPAL DE QUIXADÁ

CONCRETO Fck = 30 MPa

CLIENTE: PREFEITURA MUNICIPAL DE QUIXADÁ - CE

OBRA: PRÉDIO PARA USO HOSPITALAR

TÍTULO: Forma-LAJE DE FORRO

PROJETO N.º: [ ]

PRANCHA N.º: 10

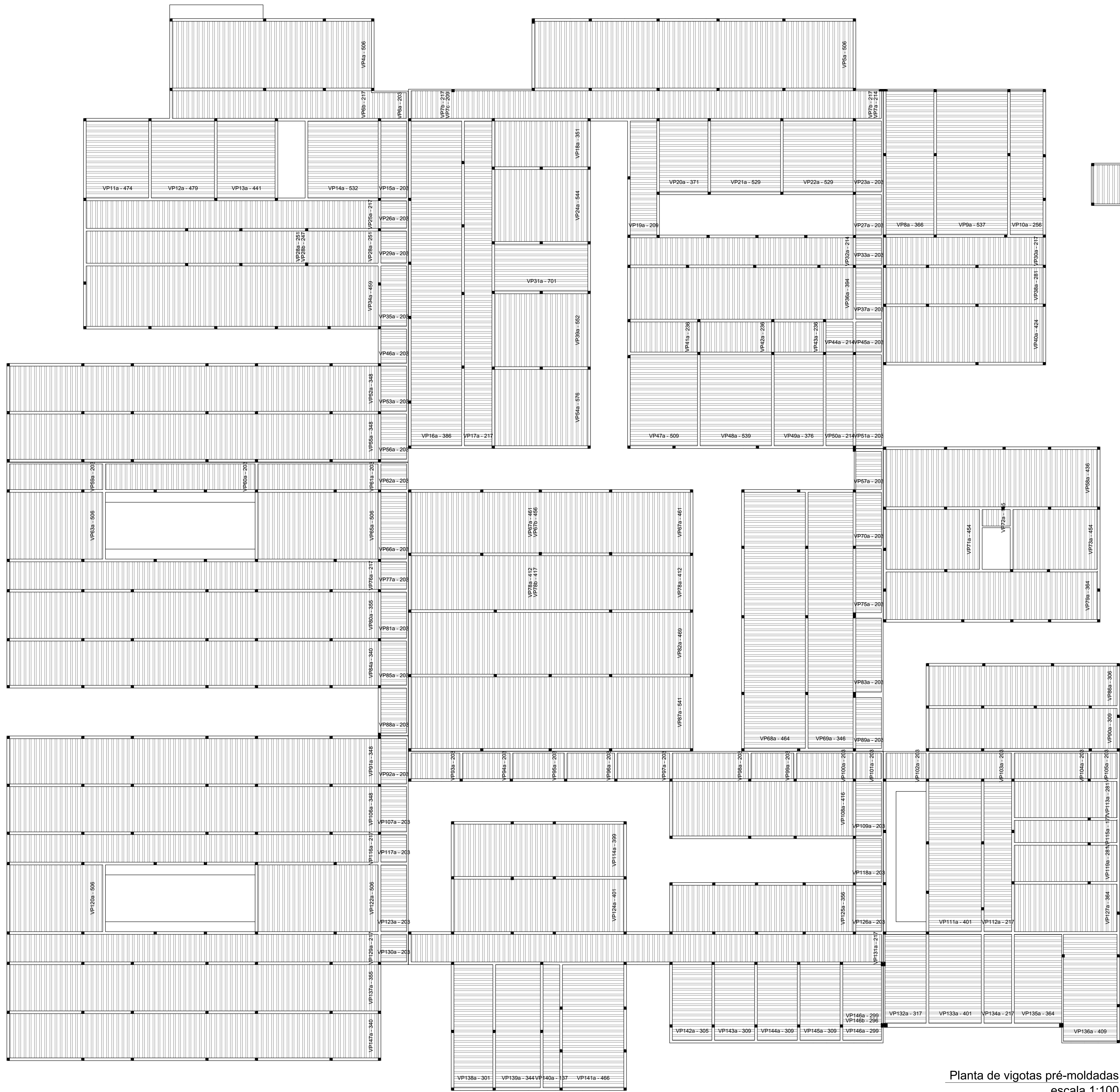
TOTAL: 26

REV. N.º: 00

DATA: 01/03/2024 ESCALA: 1:50 DESENHO: MAR-LAJ-VIG-001-R00 COORD. FOCL. ENG.º: [ ]

*Jose Milton Felinto de Souza*  
José Milton Felinto de Souza  
Eng.º Civil - CREA 011564/07-1





**Relação do aço**

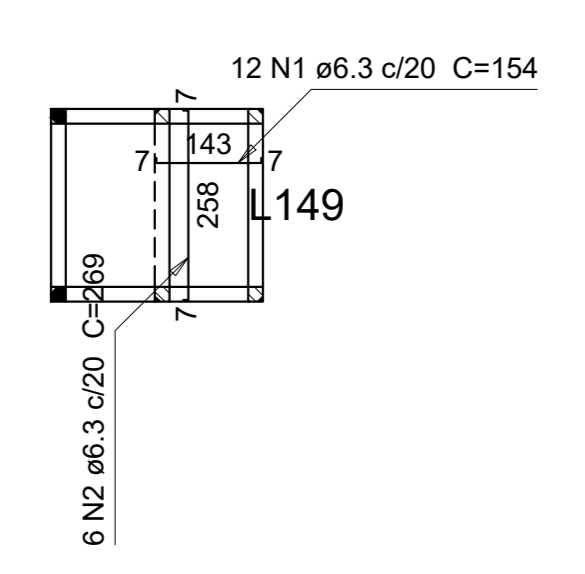
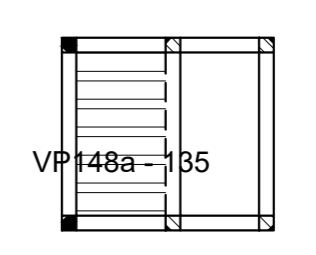
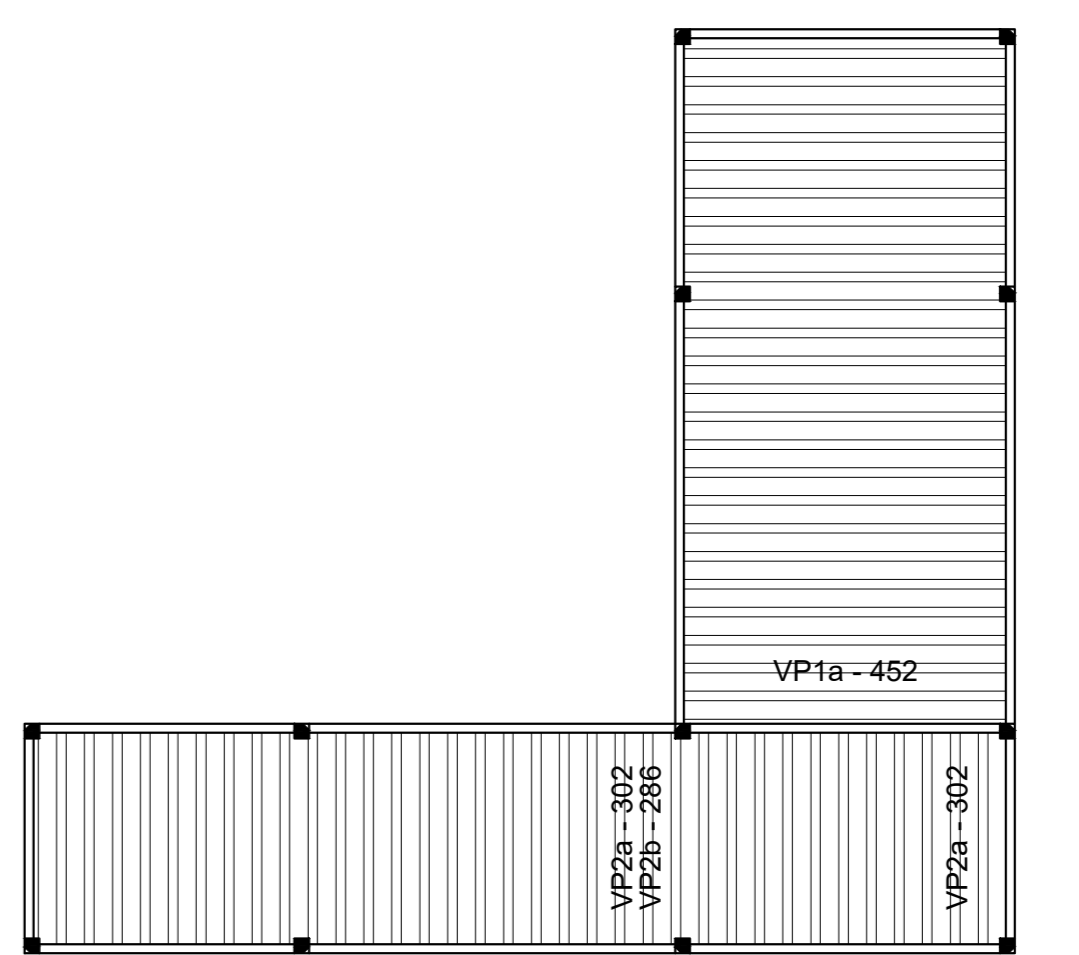
AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CASO	1	6.3	12	154	1848
	2	6.3	6	289	1614

**Resumo do aço**

AÇO	DIAM (mm)	C. TOTAL (m)	PESO (kg)
CASO	6.3	34.7	8.5
PESO TOTAL (kg)			8.5
CASO			8.5

Volume de concreto (C-30) = 228.27 m³  
 Área de forma = 63.19 m²



Armação positiva das lajes do pavimento LAJE DE FORRO  
 escala 1:100

Revisões da prancha

Nº	Descrição	Por quem	Data
X	XXXXX	XXXXX	XXXXXX/XX/XX
X	XXXXX	XXXXX	XXXXXX/XX/XX
X	XXXXX	XXXXX	XXXXXX/XX/XX
0	Emissão Inicial	<>	<>
Nº	Comentário	Autor	Data

Planta de vigotas pré-moldadas  
 escala 1:100

ESTADO DO CEARÁ  
 PREFEITURA MUNICIPAL DE QUIXADÁ

CONCRETO: Fc = 30 MPa

CLIENTE: PREFEITURA MUNICIPAL DE QUIXADÁ - CE

OBRA: PRÉDIO PARA USO HOSPITALAR

TÍTULO: Planta de vigotas PM-Lajes-LAJE DE FORRO

PROJETO Nº: 12

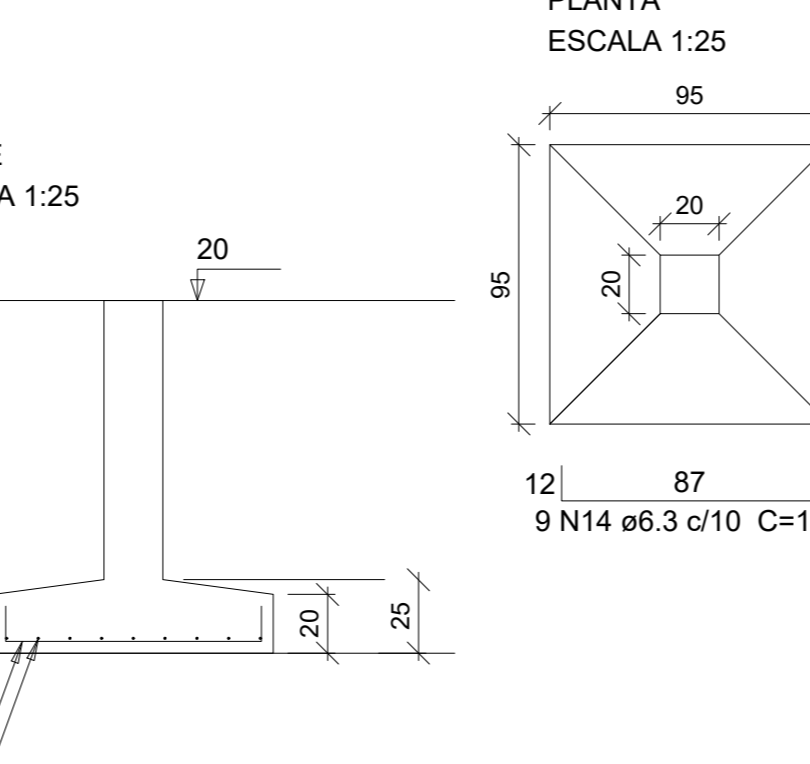
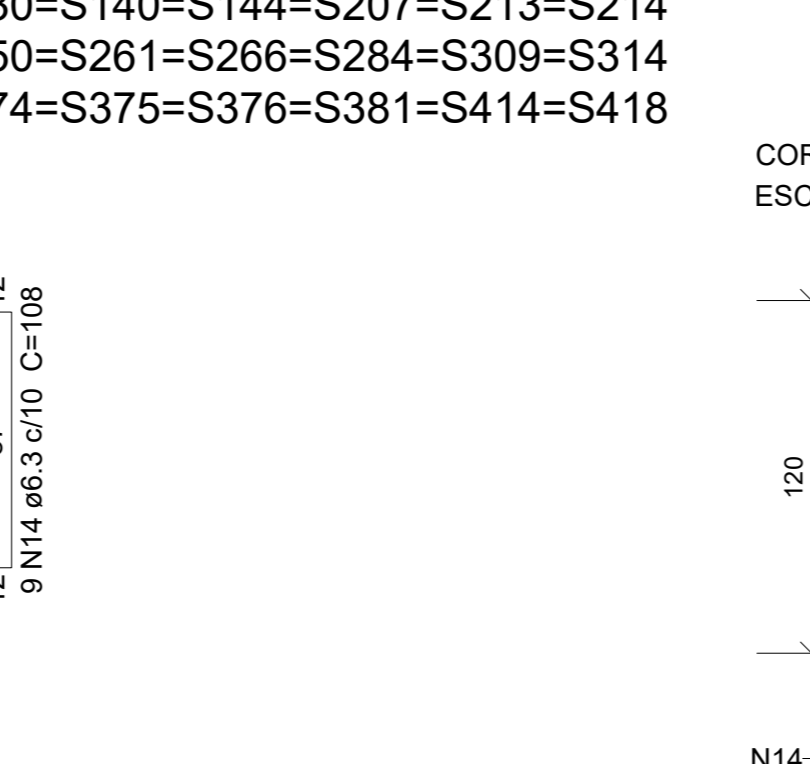
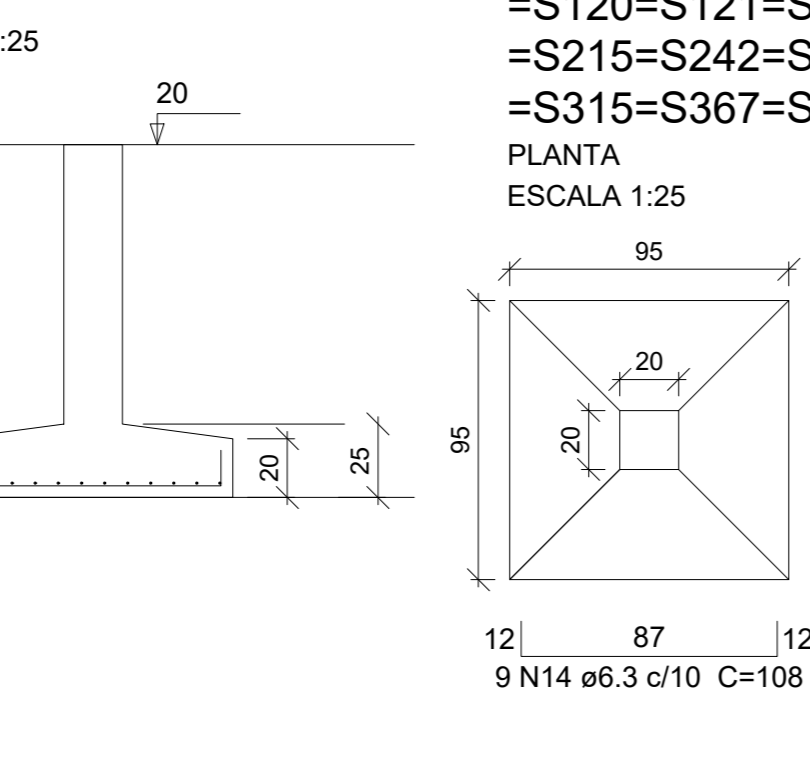
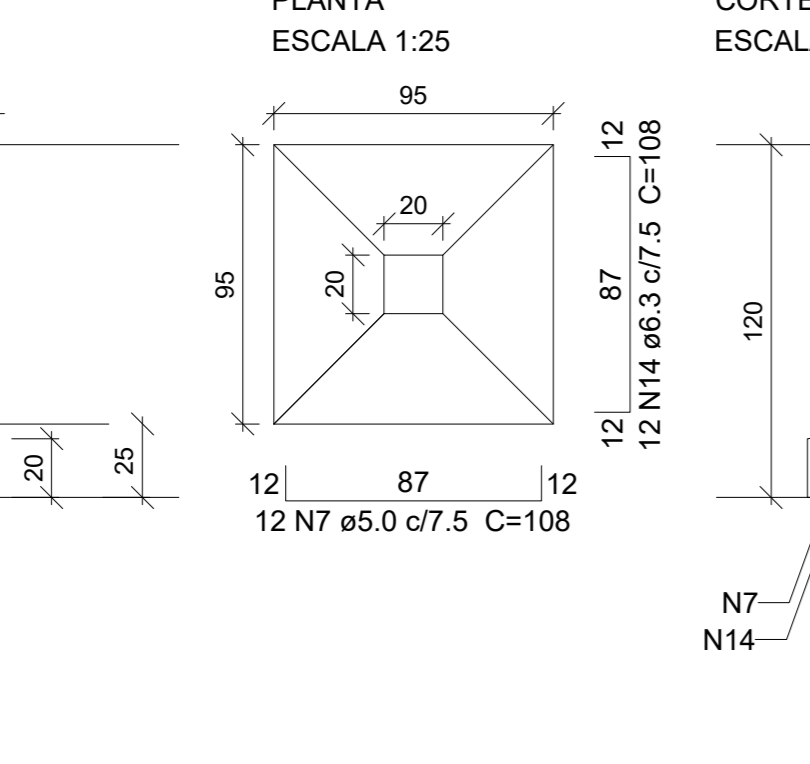
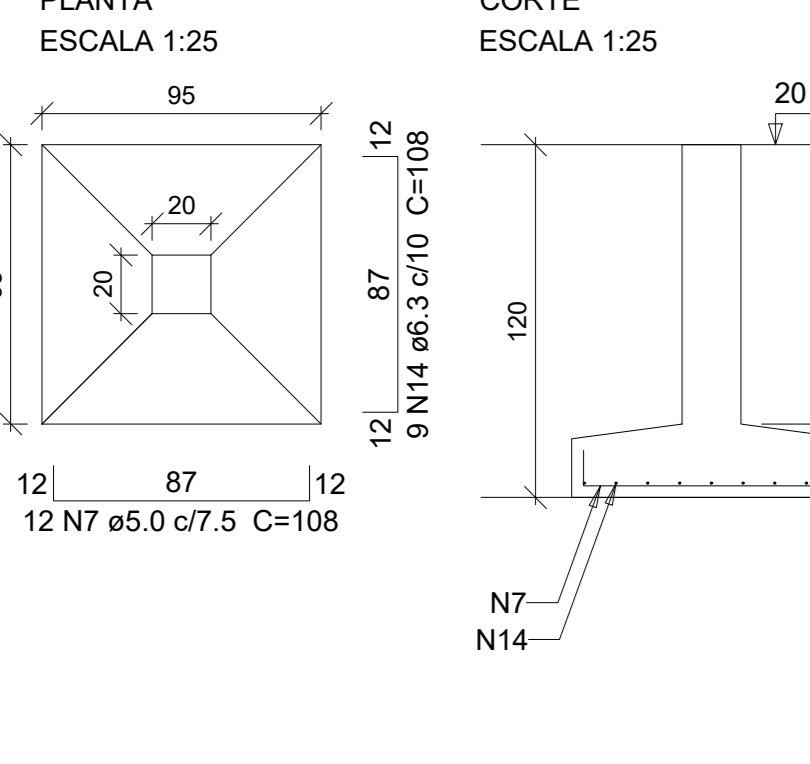
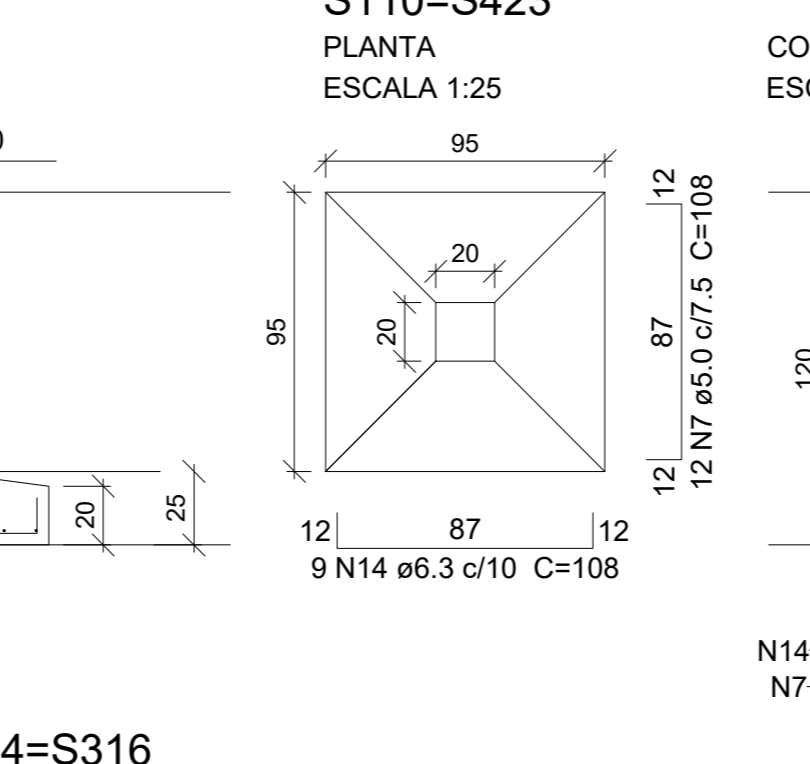
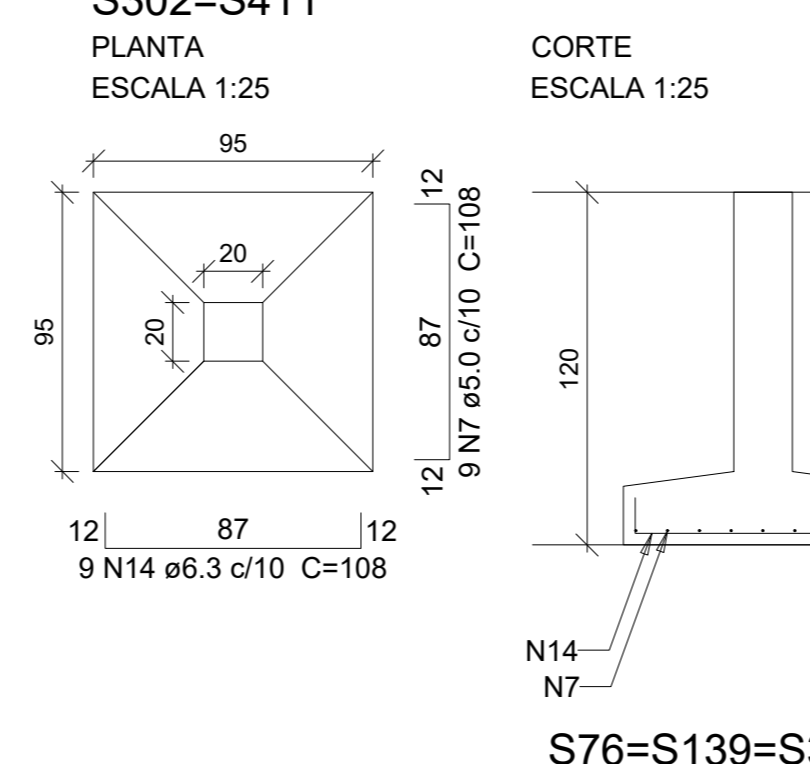
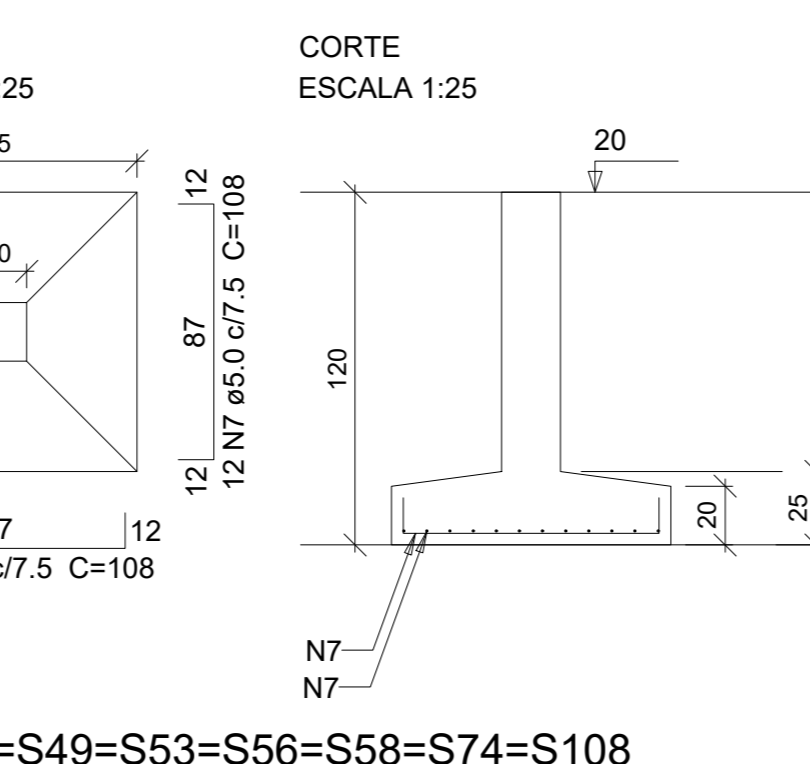
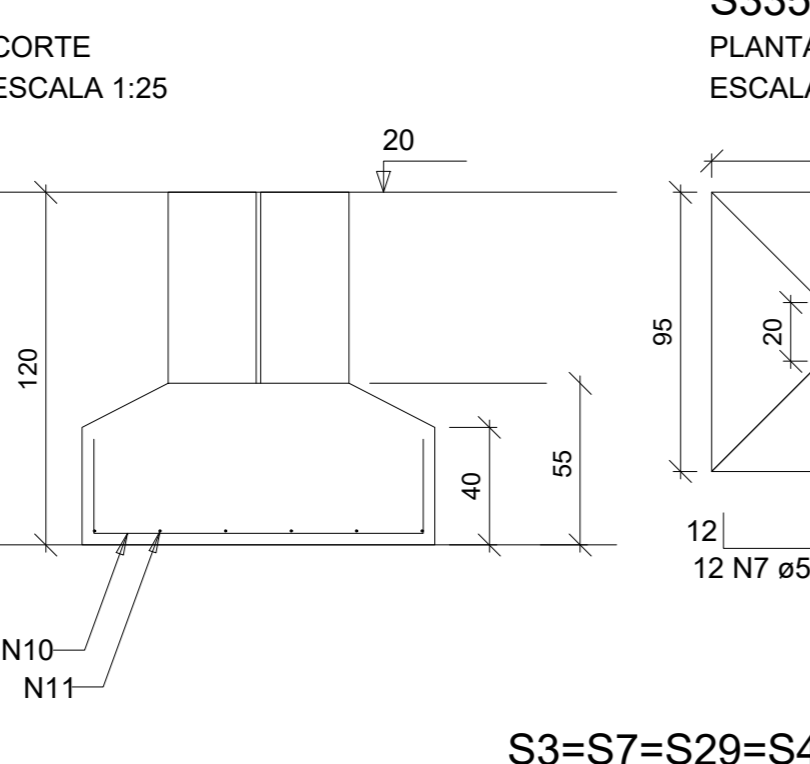
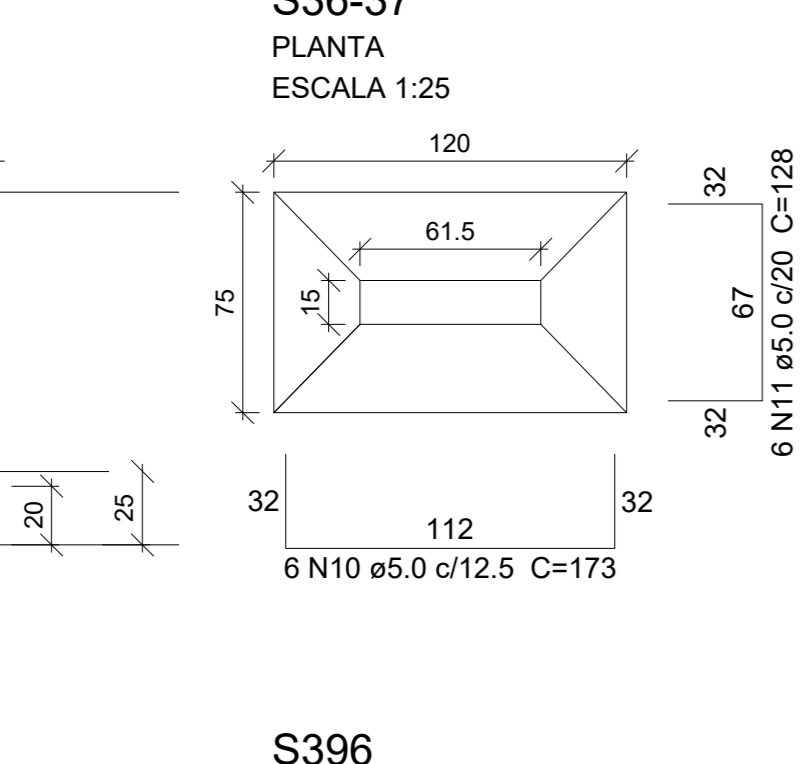
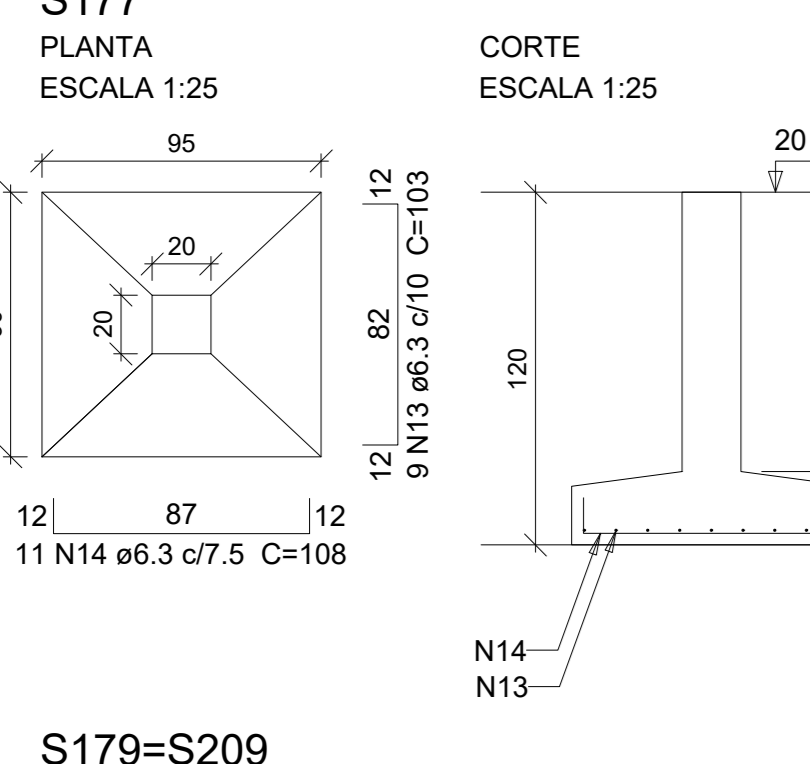
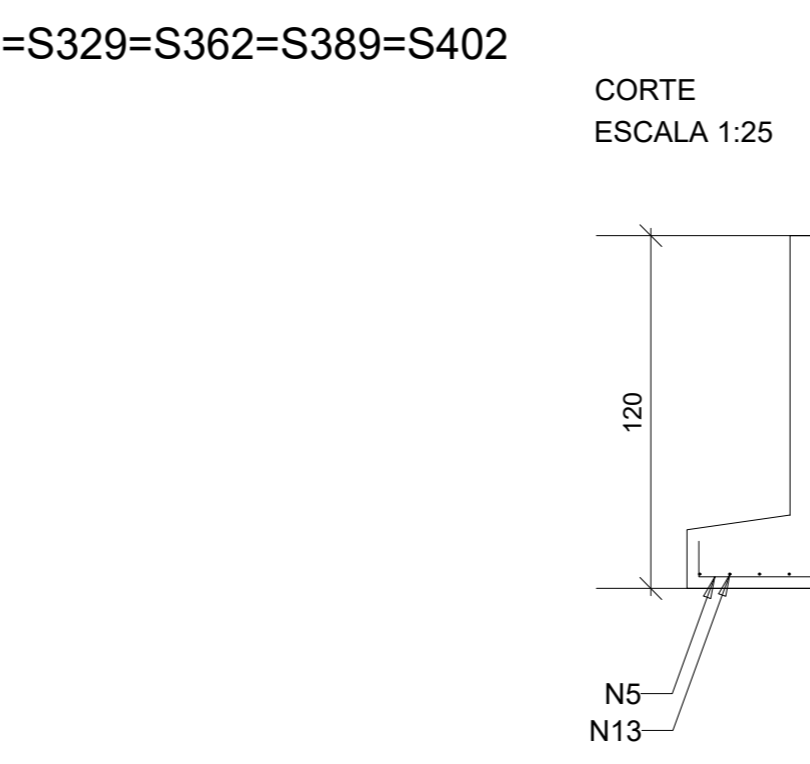
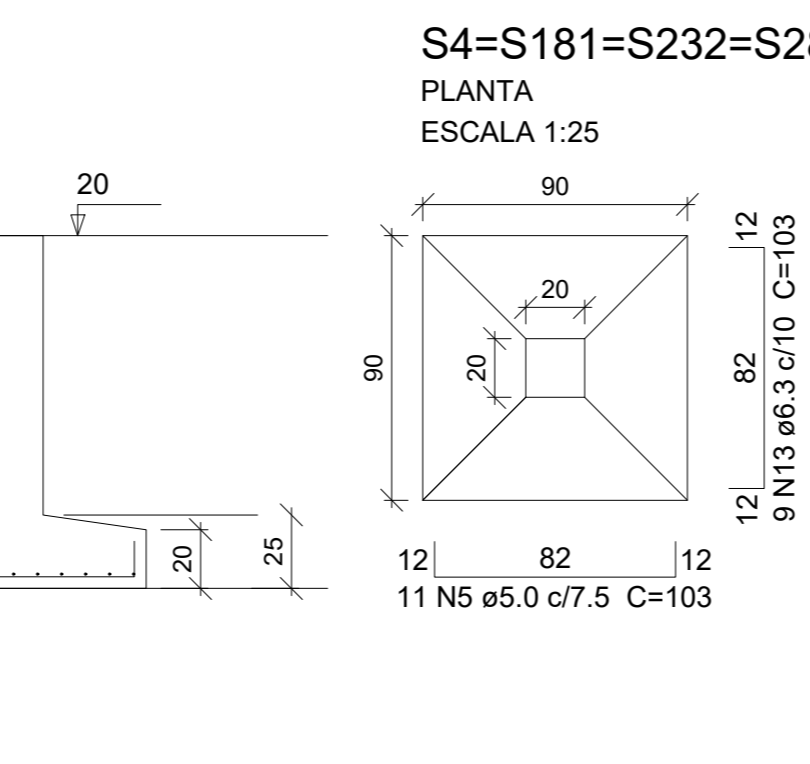
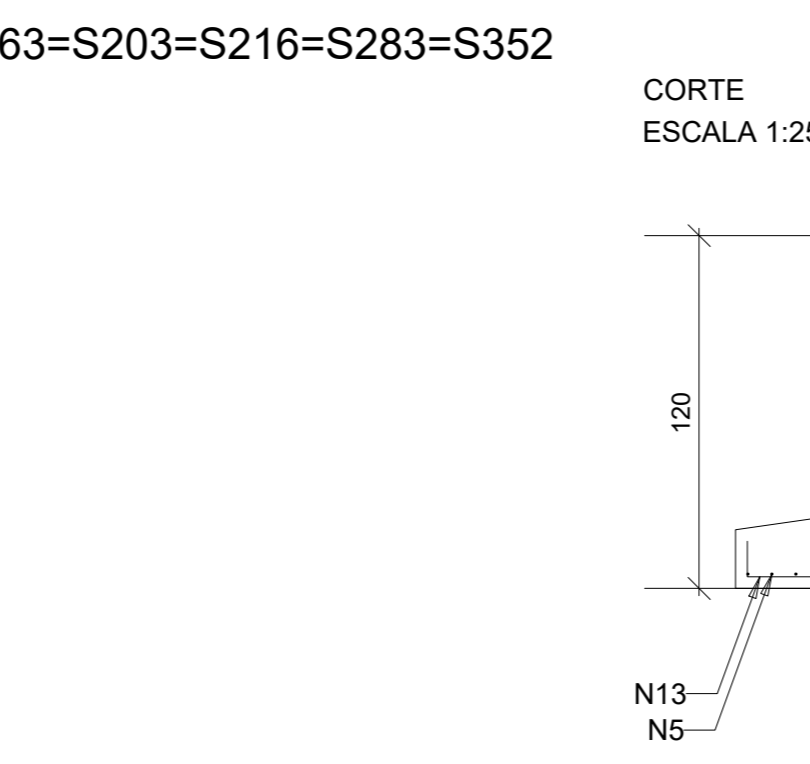
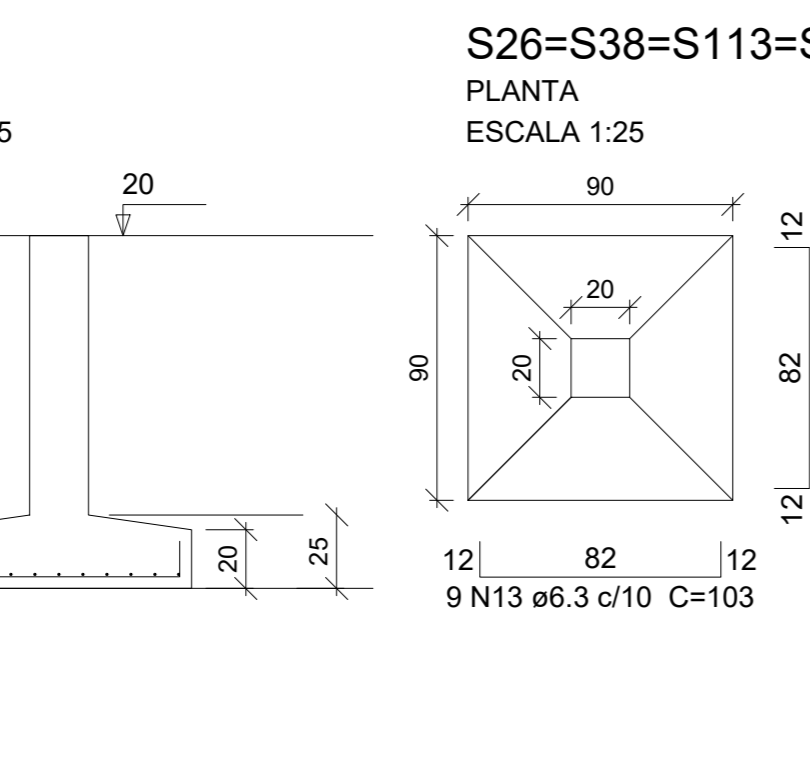
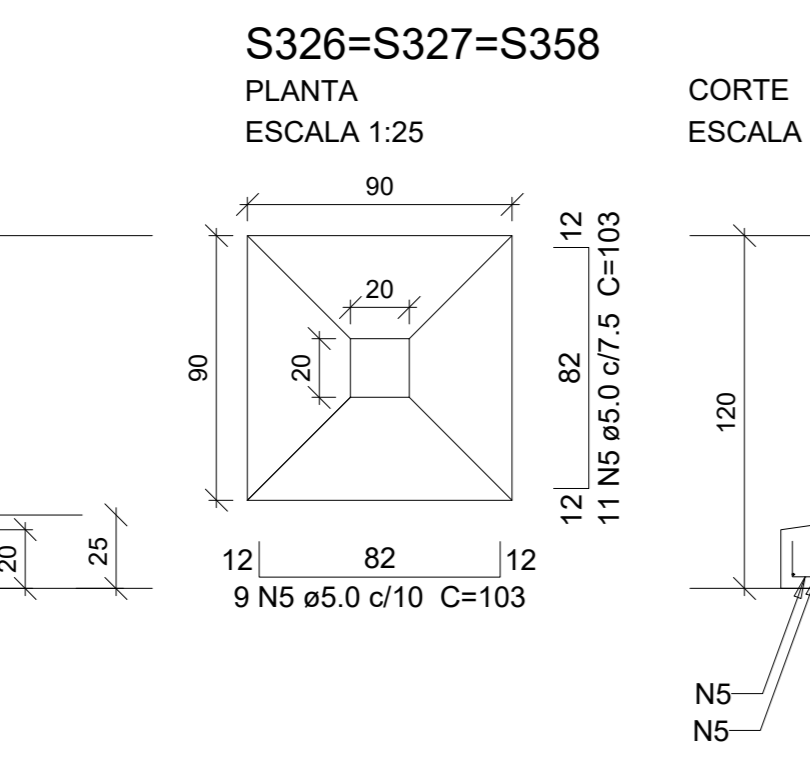
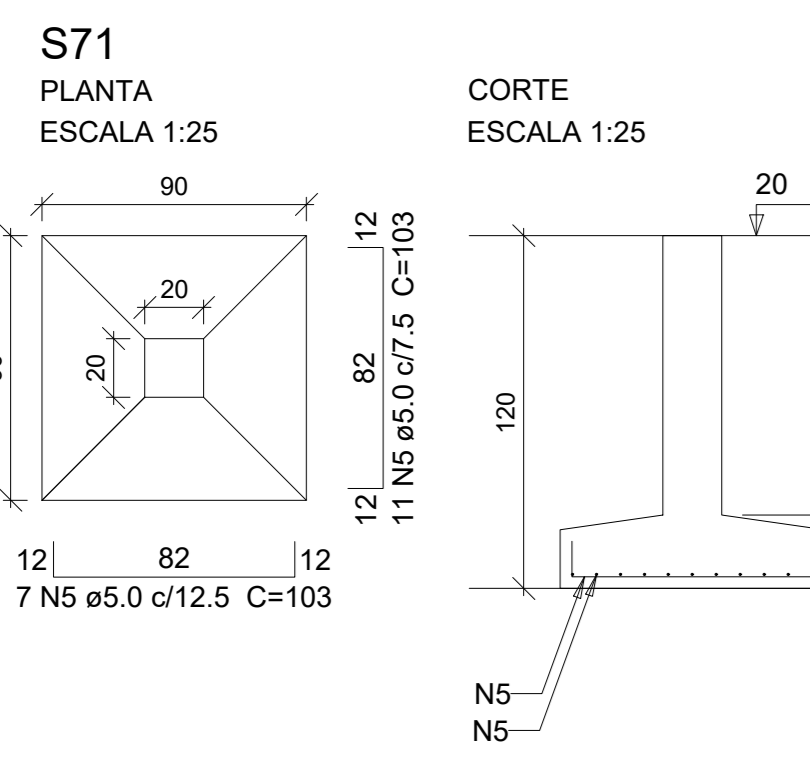
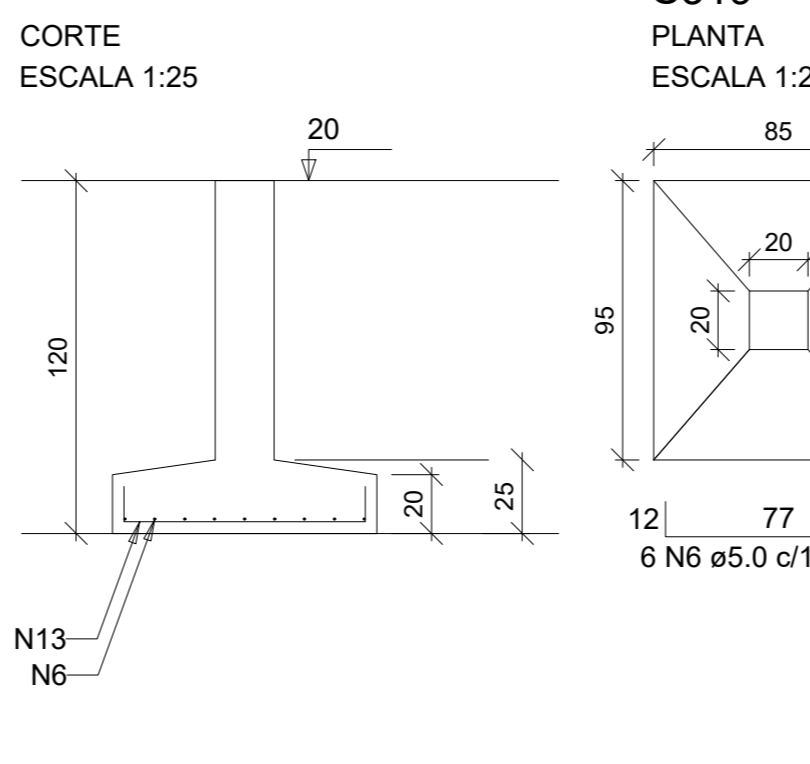
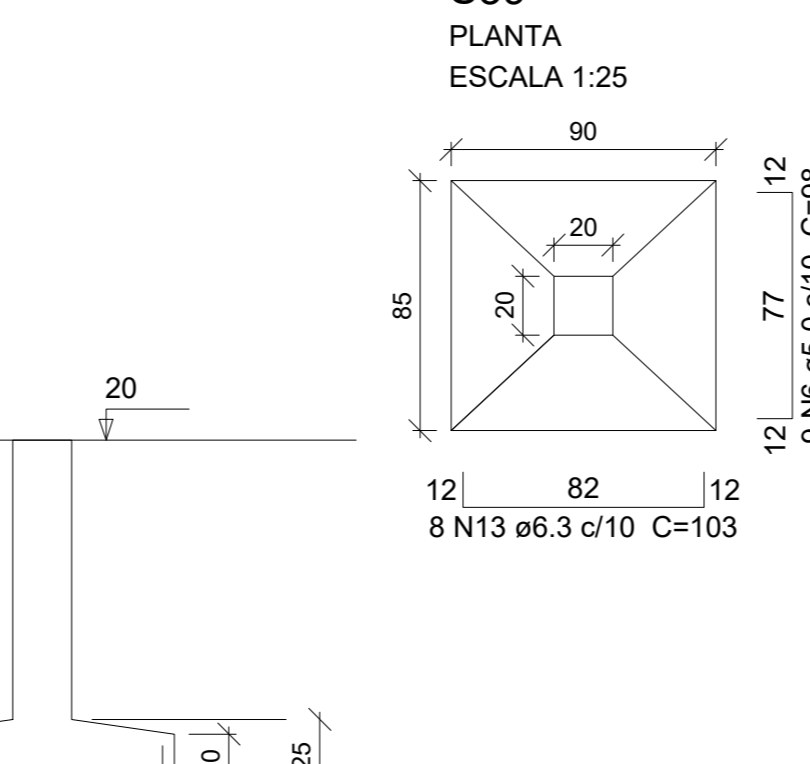
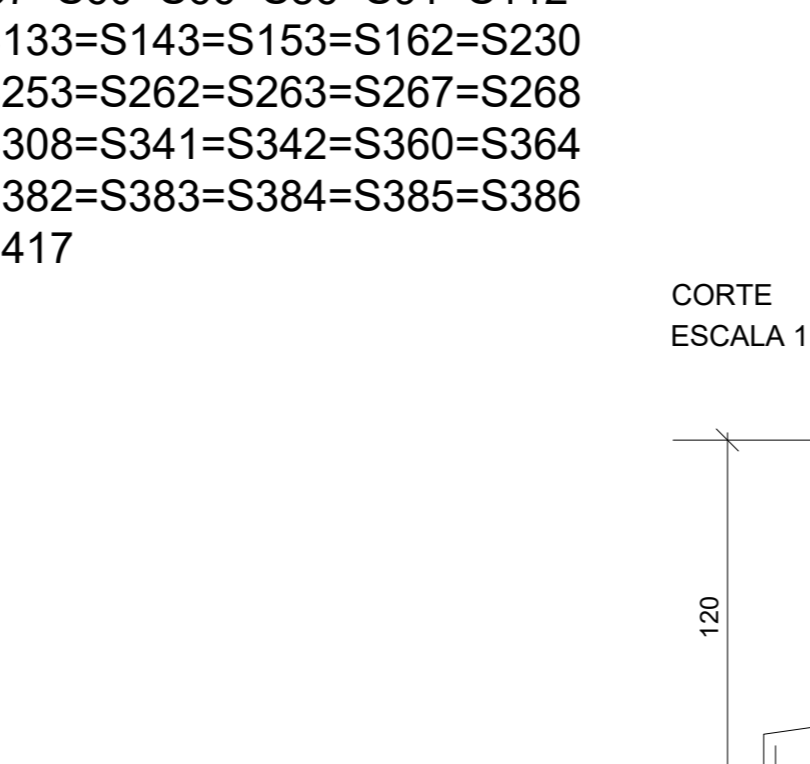
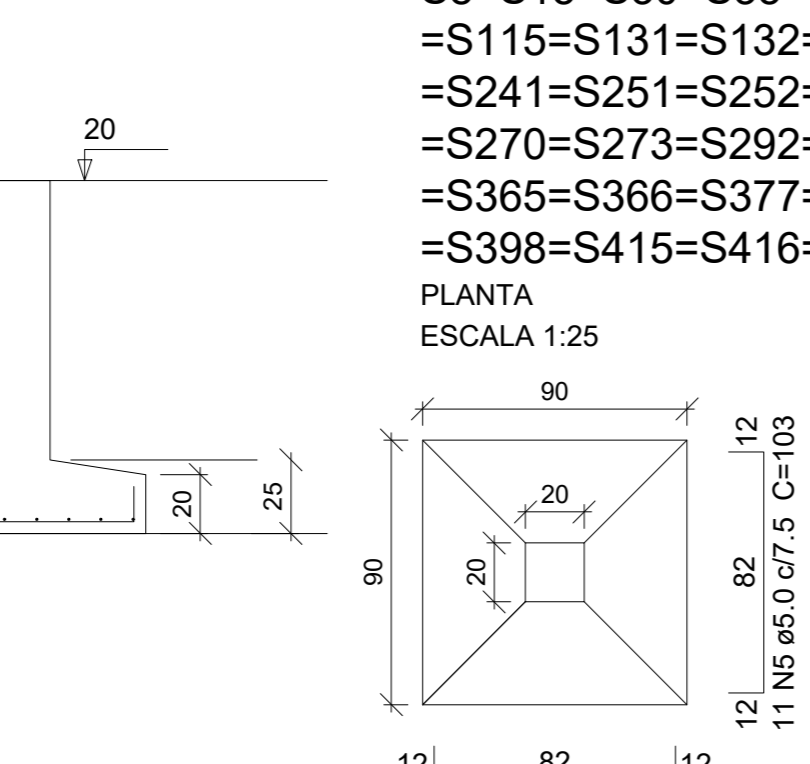
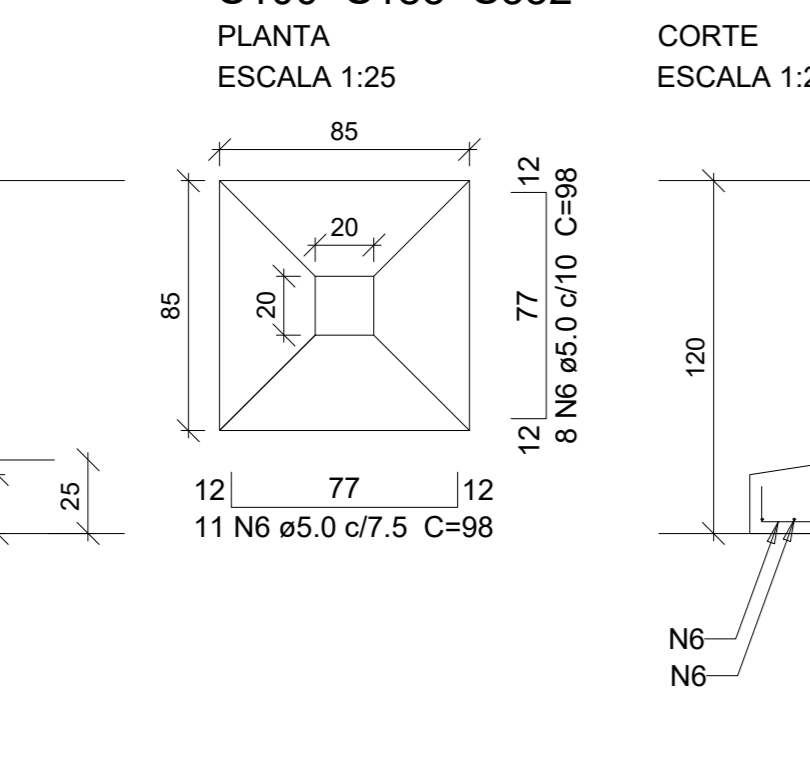
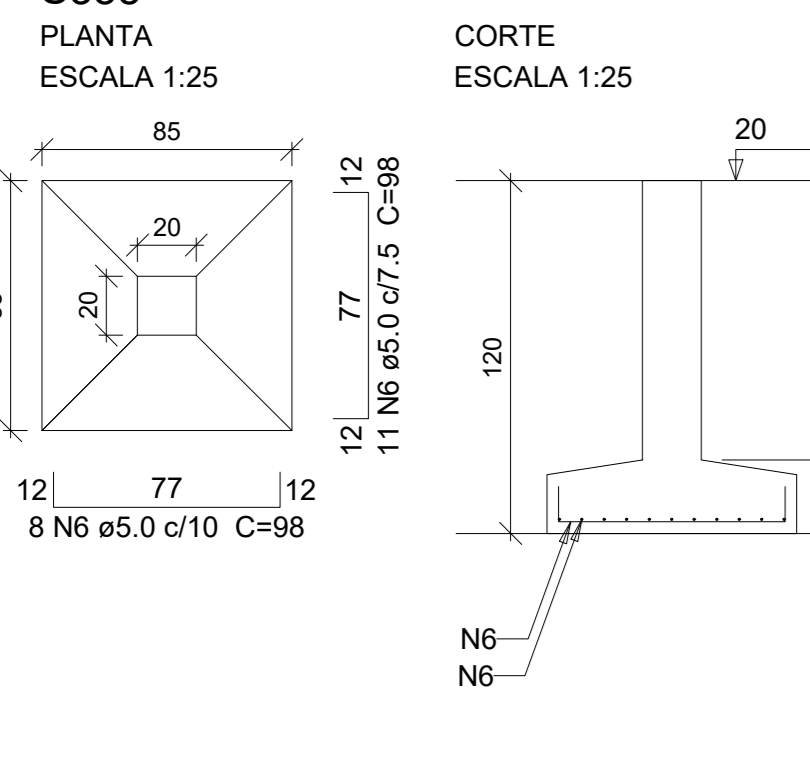
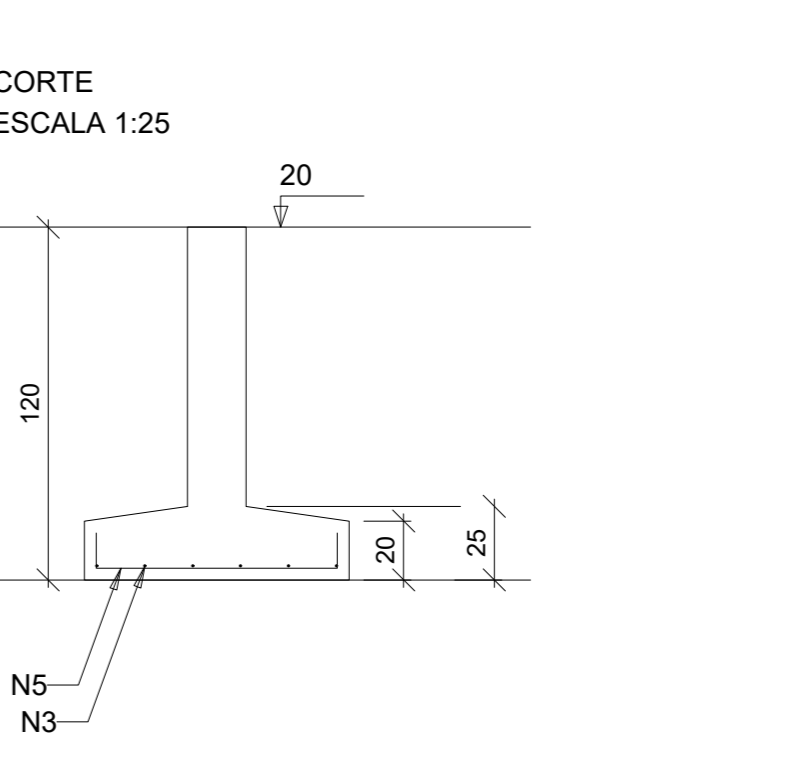
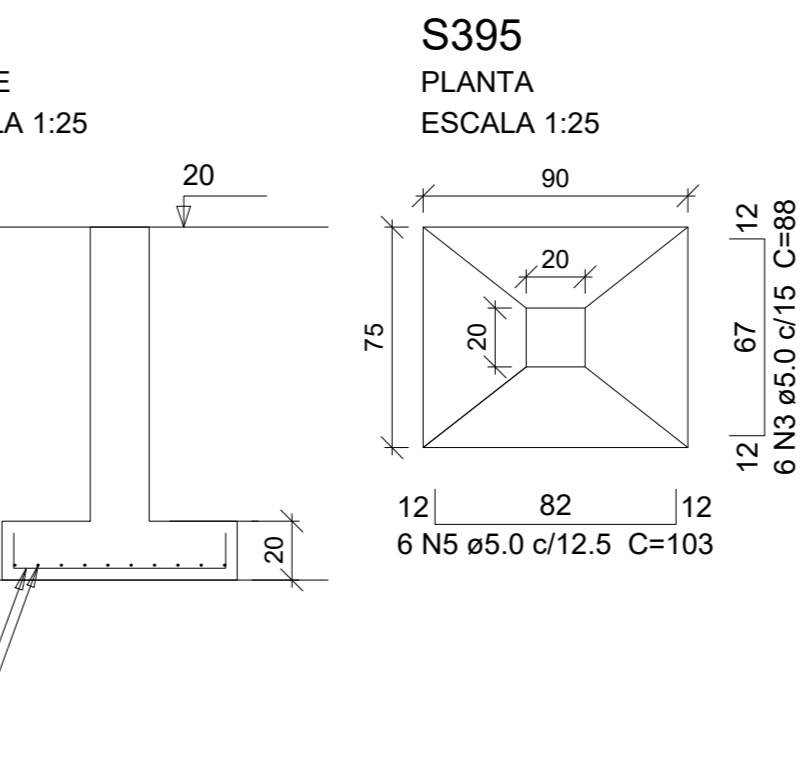
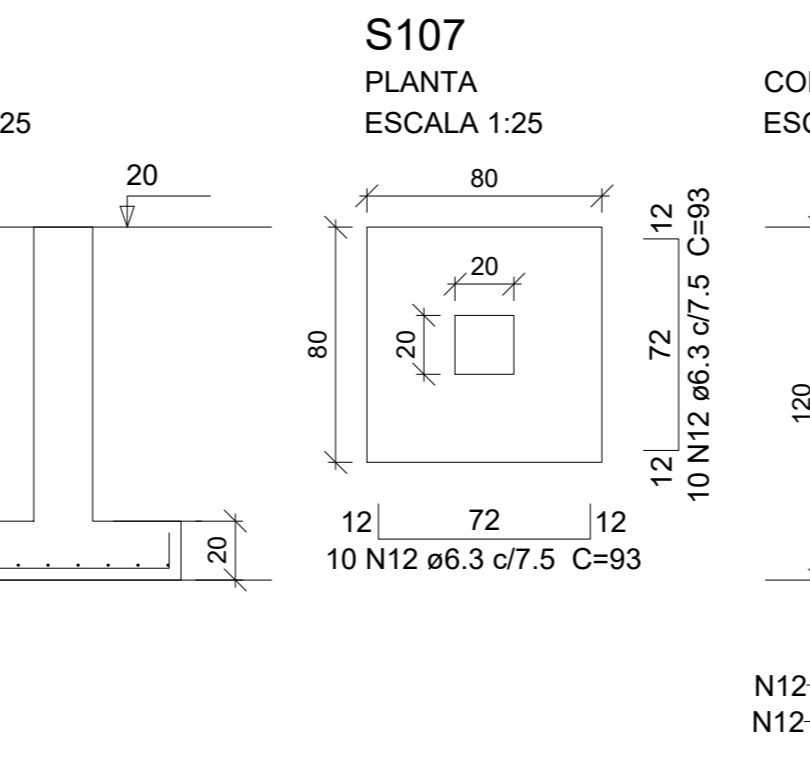
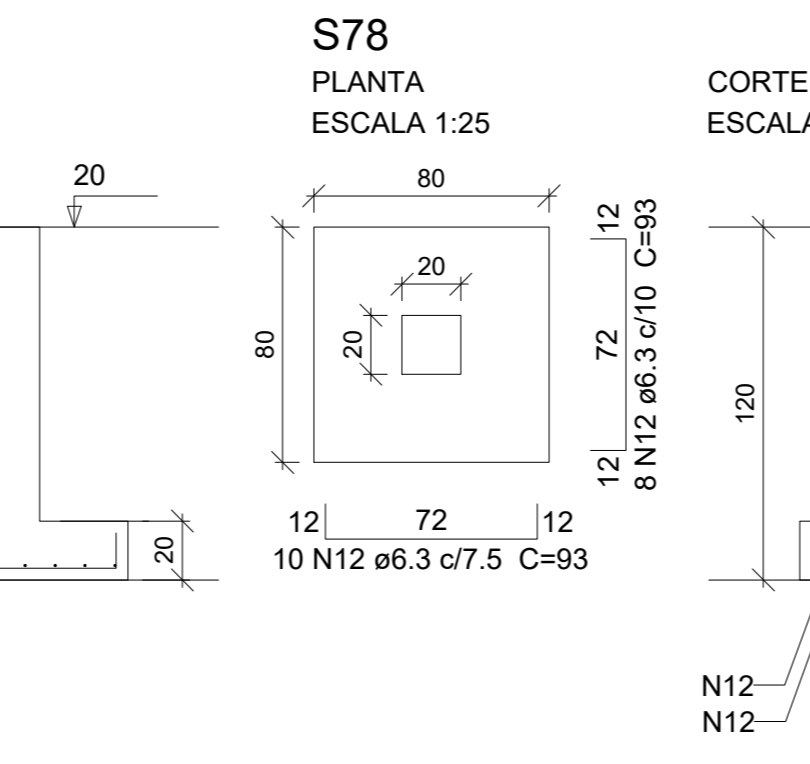
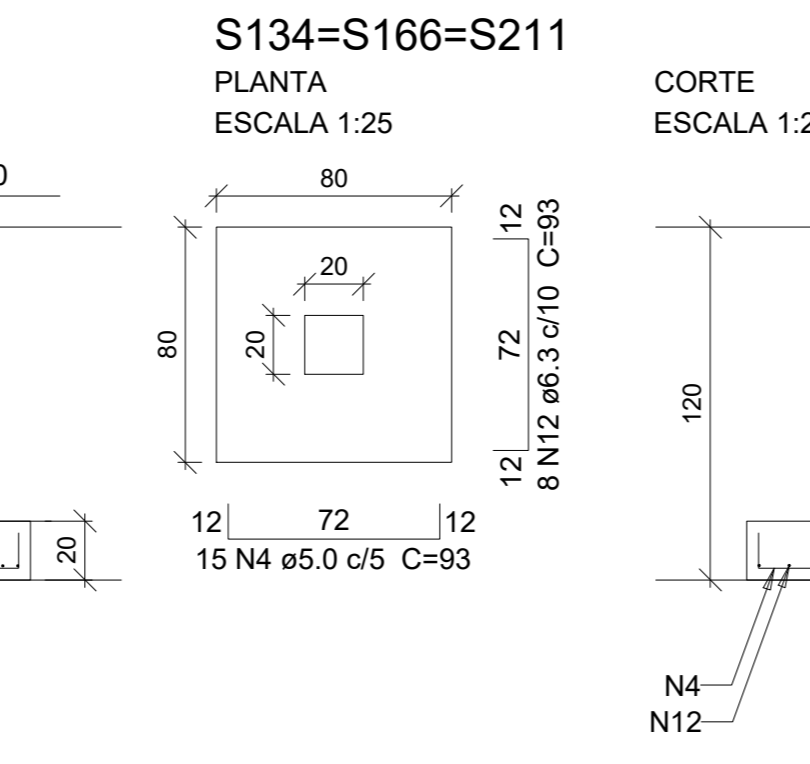
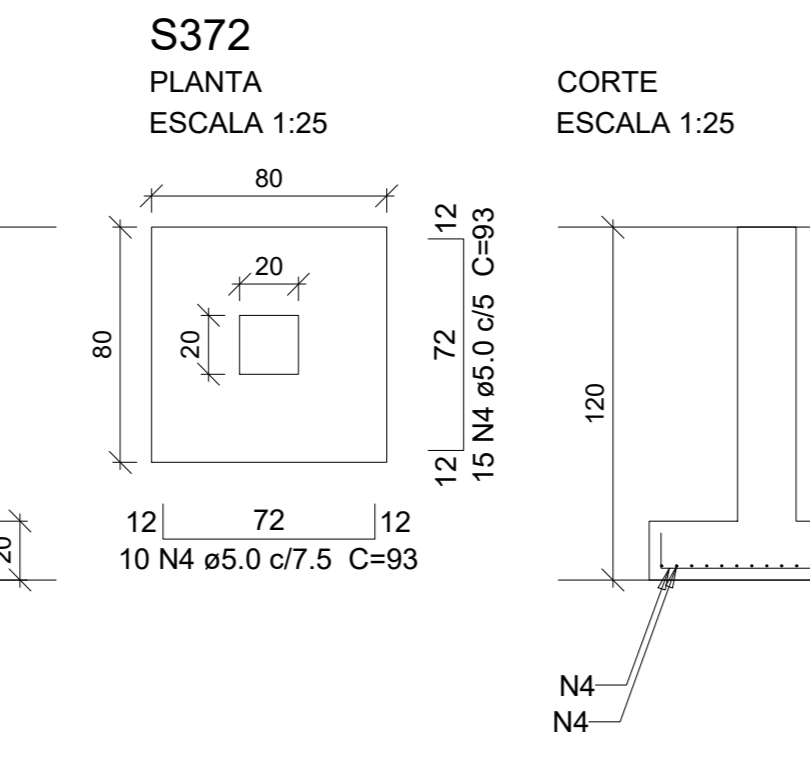
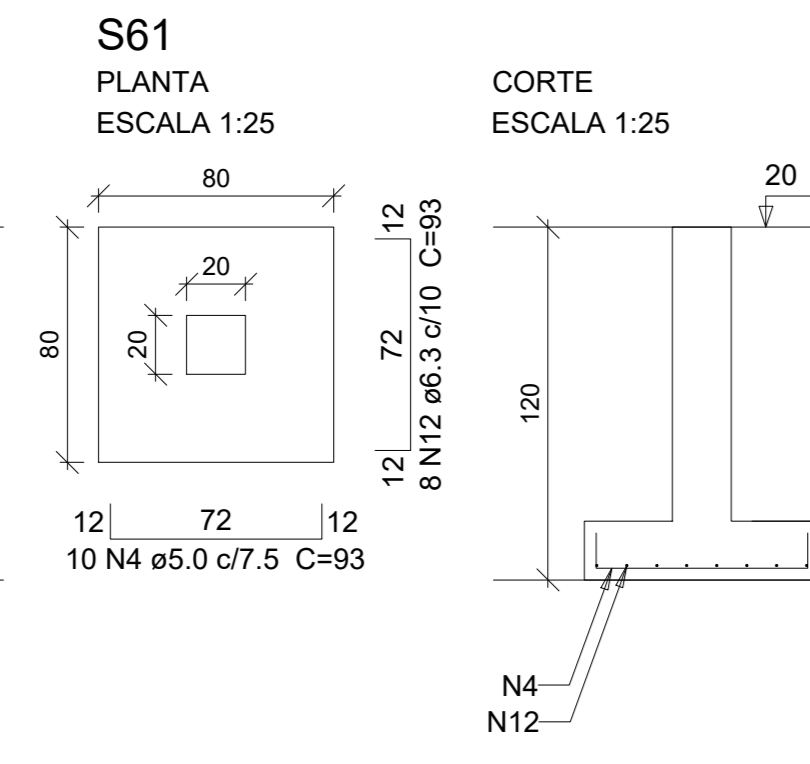
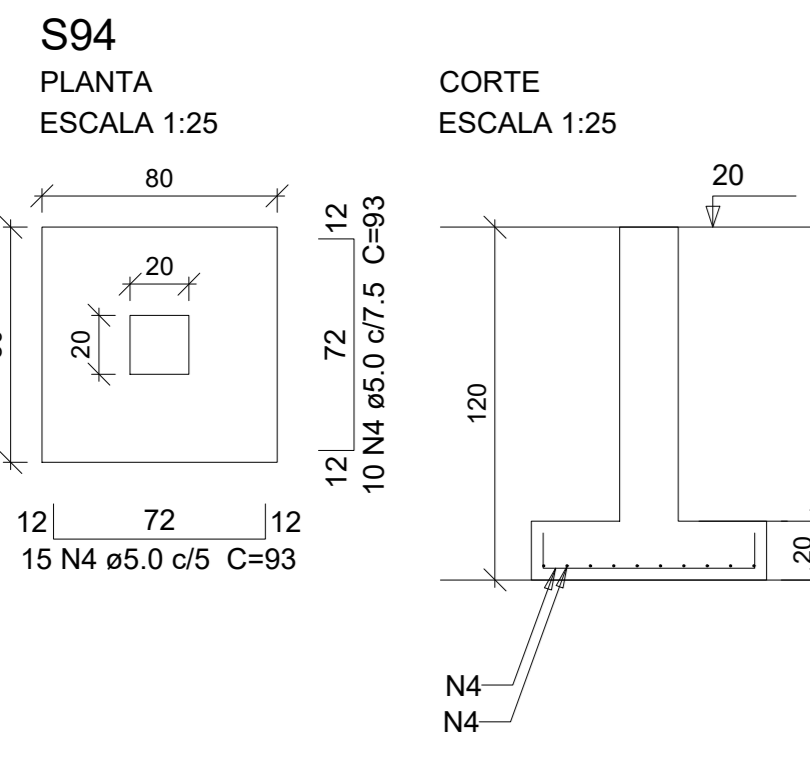
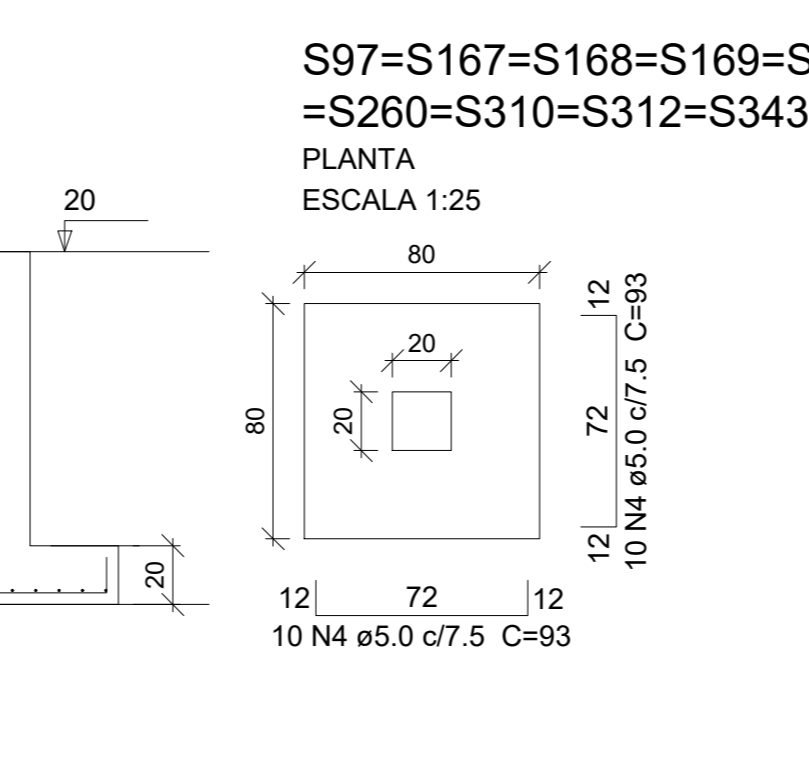
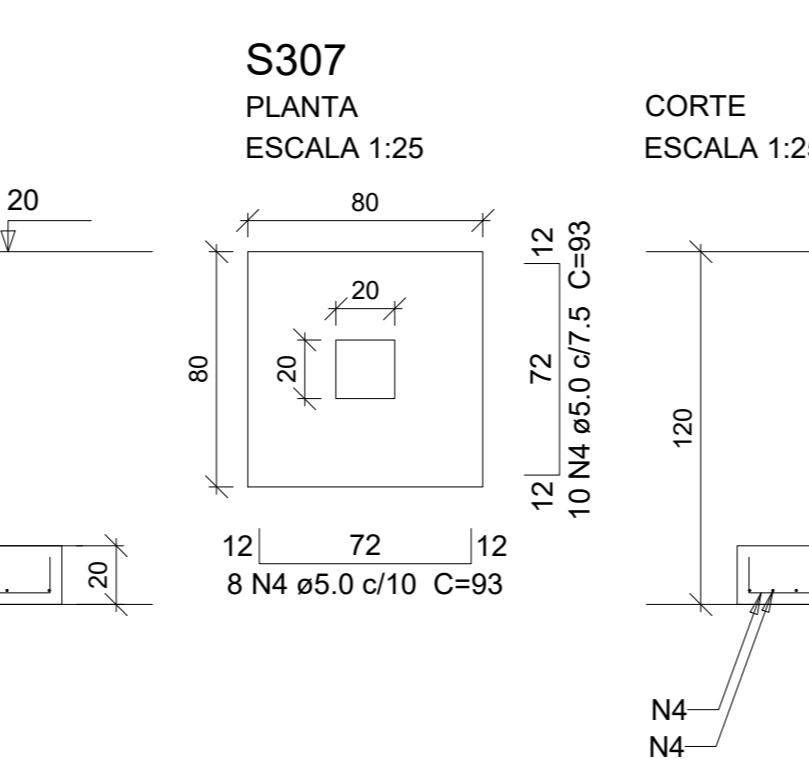
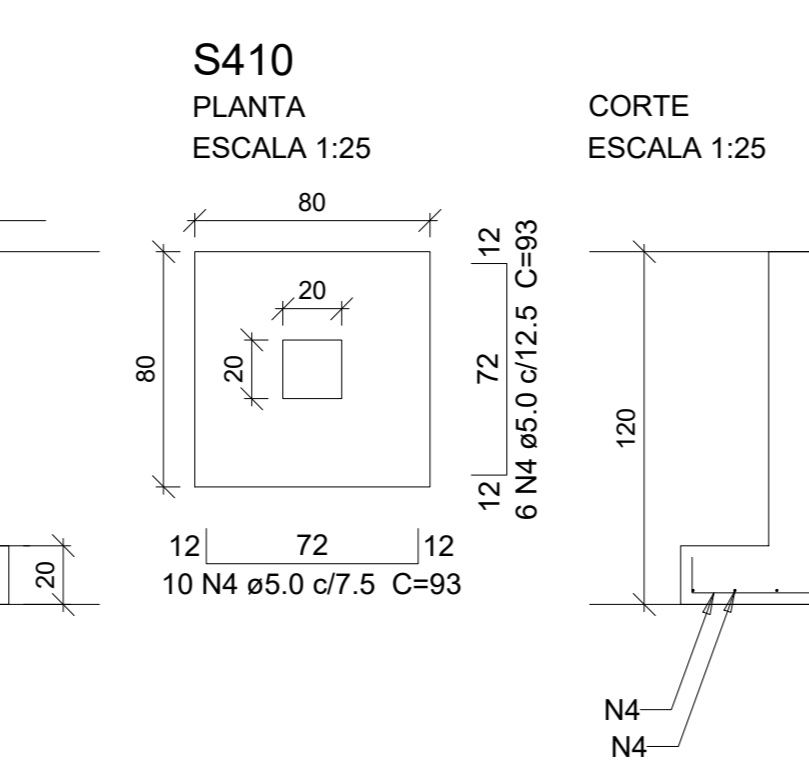
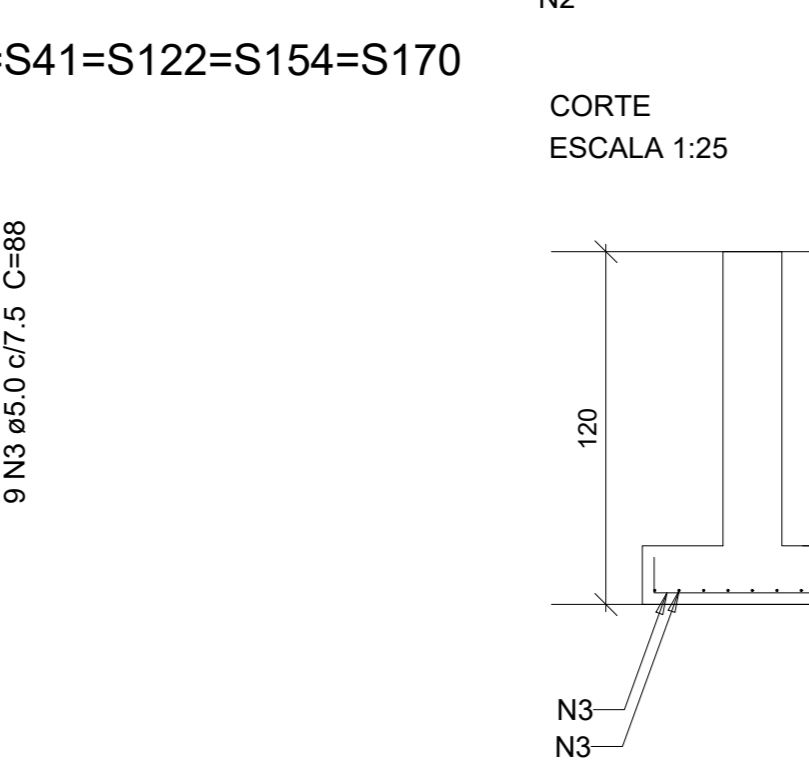
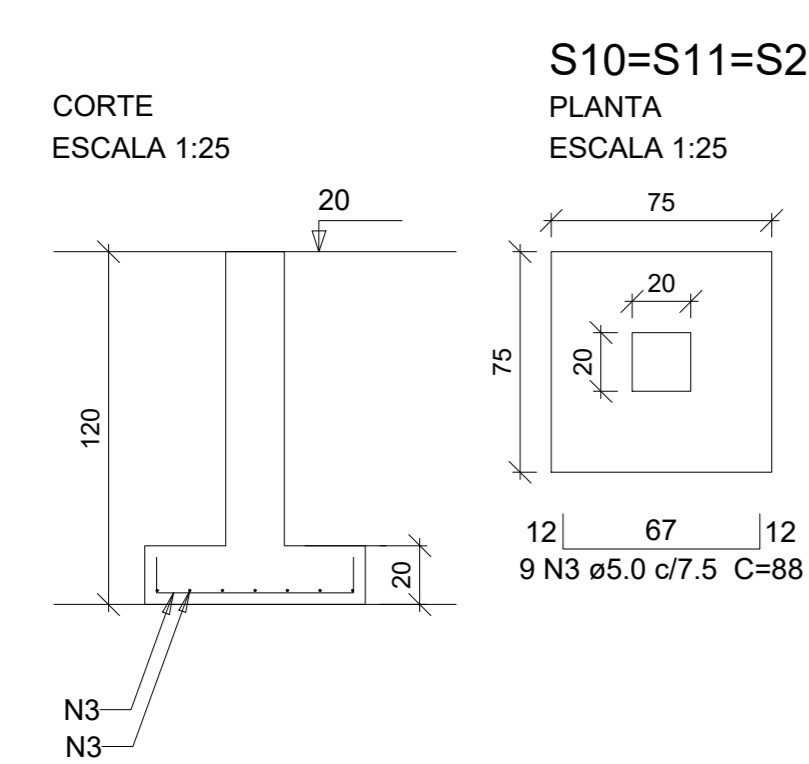
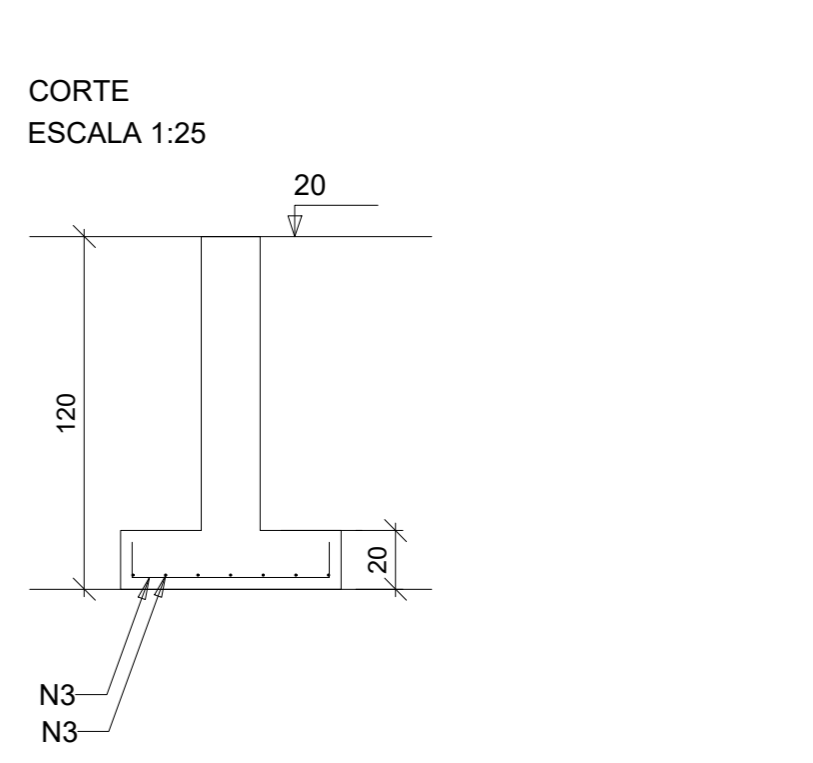
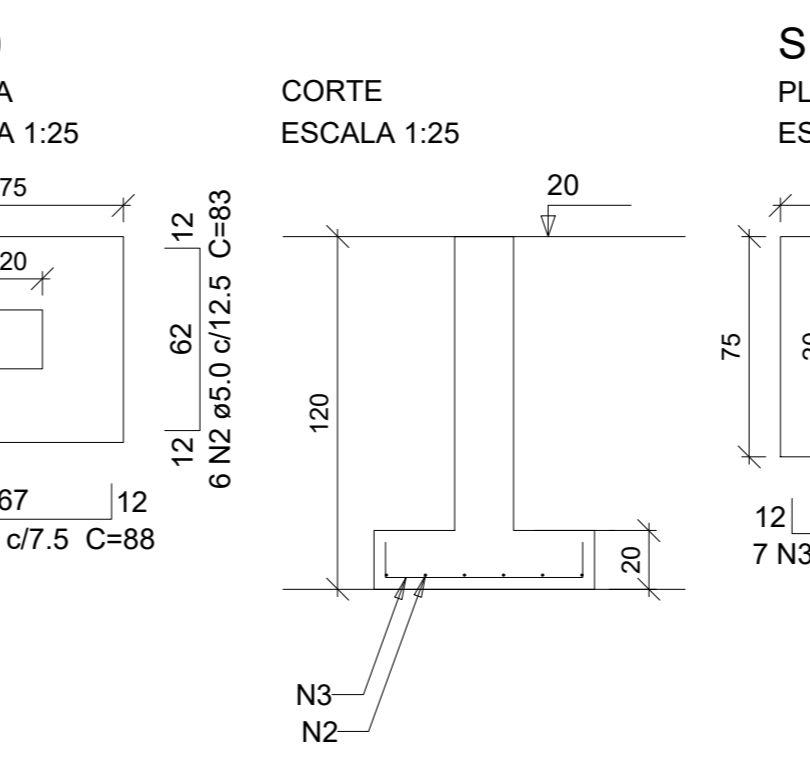
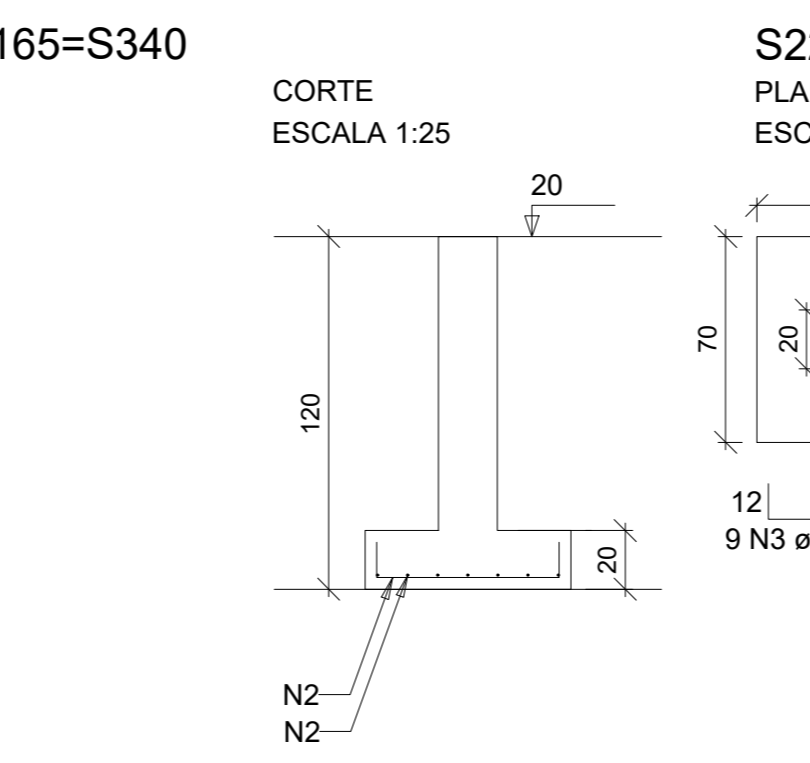
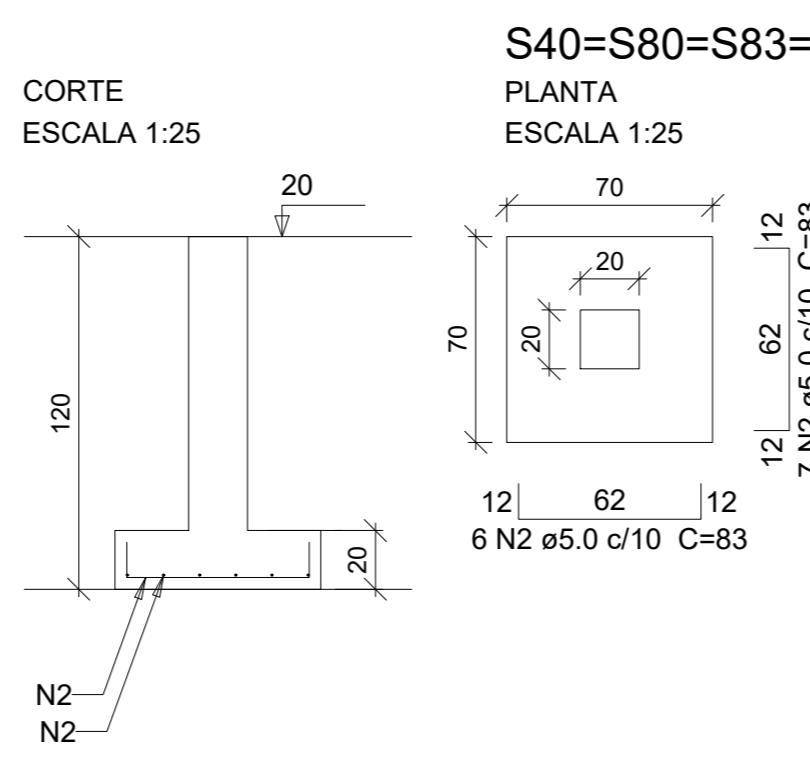
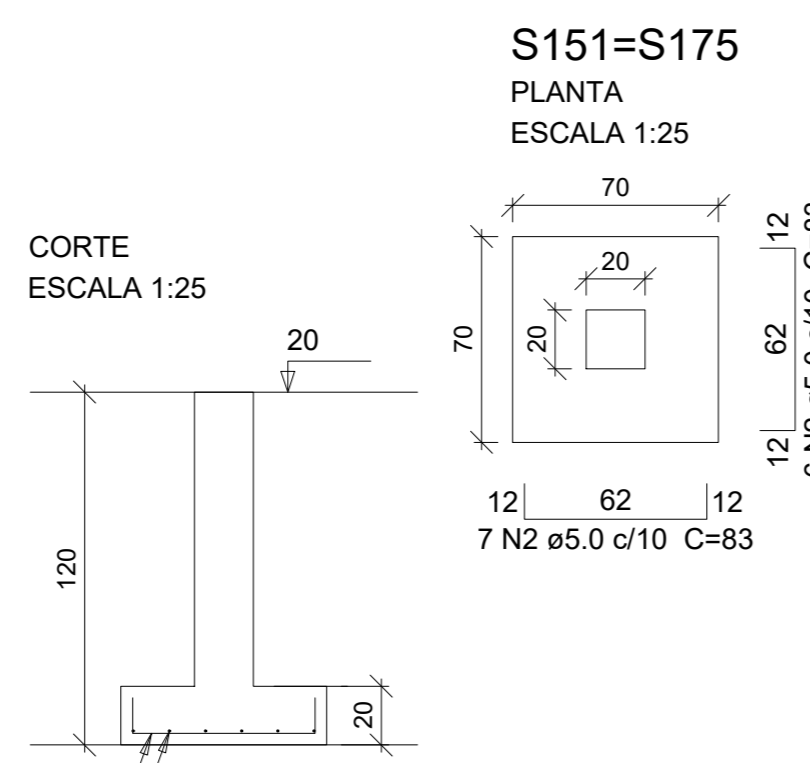
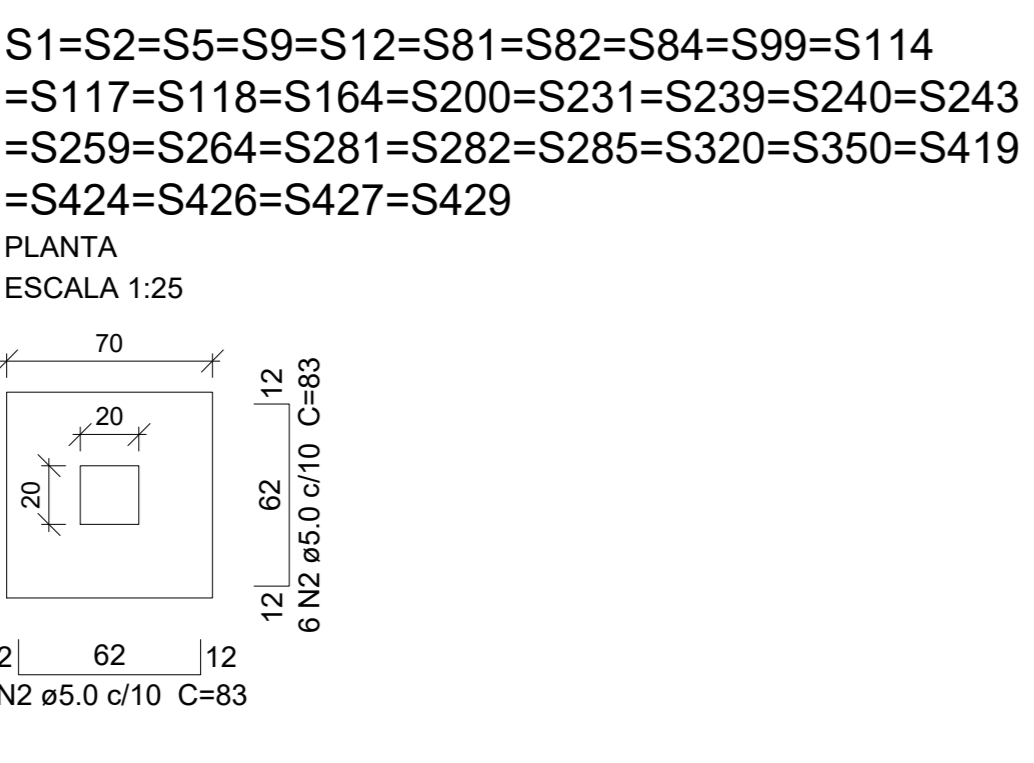
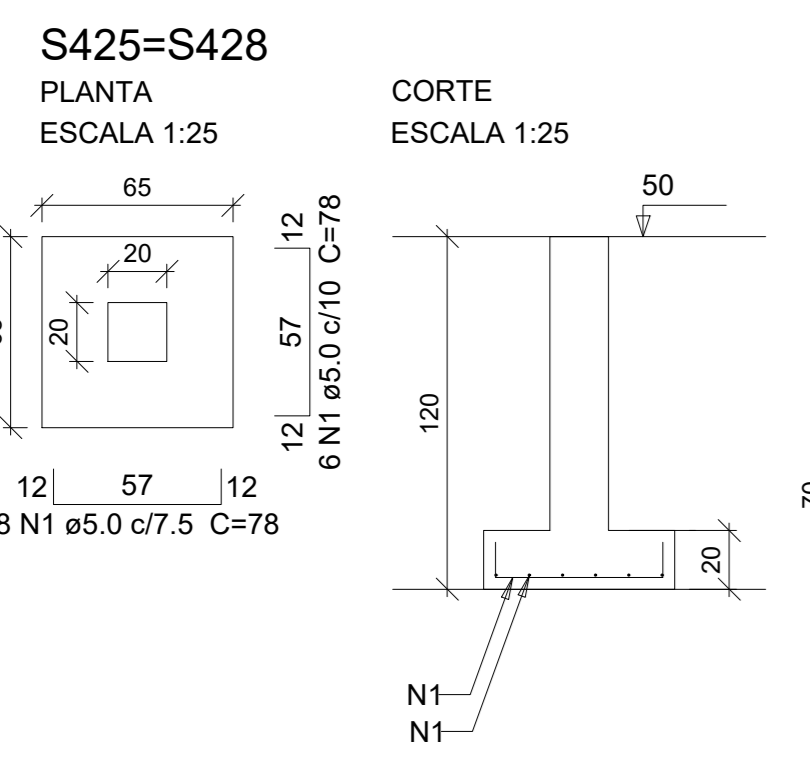
26

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DATA: 01/03/2024 ESCALA: 1:50 PROJETO: MBR-LAJE-VIG-01-R02

*Handwritten signature and stamp of the project engineer.*





**Relação do aço**

7xS10	S39	S61
S71	S78	S94
3xS100	S102	S107
34xS108	6xS109	2xS110
8xS113	5xS116	3xS134
4xS139	2xS151	S155
46xS162	5xS165	12xS167
S177	2xS179	8xS181
30xS200	2xS201	S229
2xS278	6xS291	2xS326
S307	S319	3xS326
S335	S355	S372
S395	S396	S410
2xS425	S36-37	S159-160

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	28	78	2184
	2	5.0	457	83	37931
	3	5.0	305	88	26840
	4	5.0	399	93	37107
	5	5.0	1312	103	135136
	6	5.0	91	98	8918
	7	5.0	122	108	13176
	8	5.0	6	103	618
	9	5.0	6	128	768
	10	5.0	6	173	1038
	11	5.0	6	128	768
	12	6.3	86	93	7998
	13	6.3	183	103	18849
	14	6.3	908	108	98064

**Resumo do aço**

AÇO	DIAM (mm)	C.TOTAL (m)	PESO (kg)
CA50	6.3	1249.2	305.7
CA60	5.0	2644.9	407.7
<b>PESO TOTAL (kg)</b>			
CA50			305.7
CA60			407.7

Volume de concreto (C-30) = 33.95 m³  
Área de forma = 146.49 m²

**Revisões da prancha**

X	XXXX	XXXX	XXXXXX
X	XXXX	XXXX	XXXXXX
X	XXXX	XXXX	XXXXXX
0	Emissão Inicial	←	→
N°	Comentário	Autor	Data

**ESTADO DO CEARÁ**  
**PREFEITURA MUNICIPAL DE QUIXADÁ**

CONCRETO: Fc = 30 MPa

CLIENTE: PREFEITURA MUNICIPAL DE QUIXADÁ - CE

OBRA: PRÉDIO PARA USO HOSPITALAR

TÍTULO: Sapatas do pavimento PISO MORTO

PROJETO Nº: 3

FOLHA Nº: 26

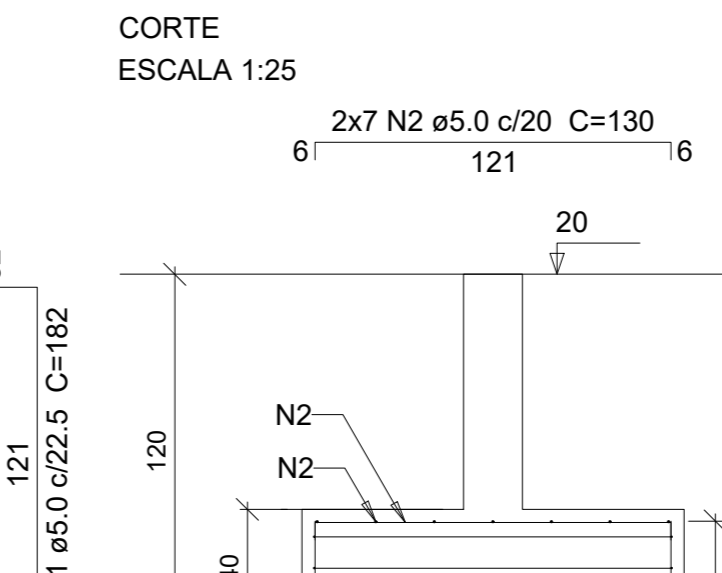
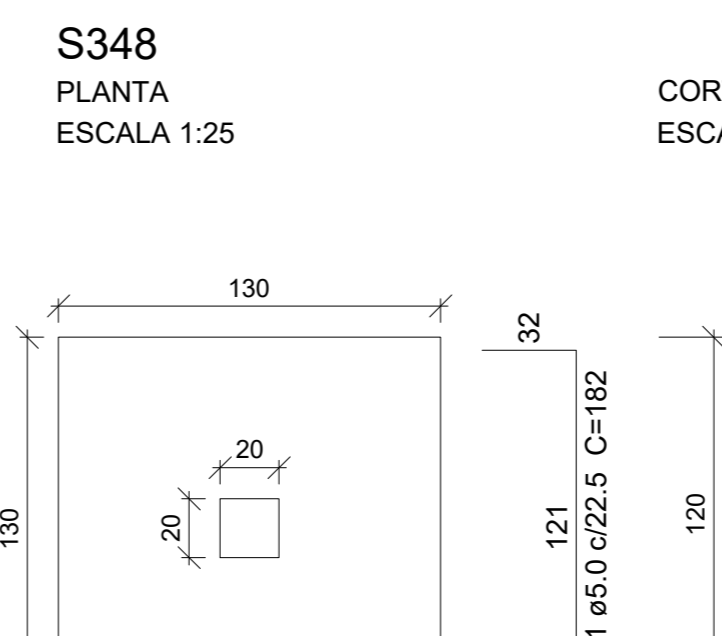
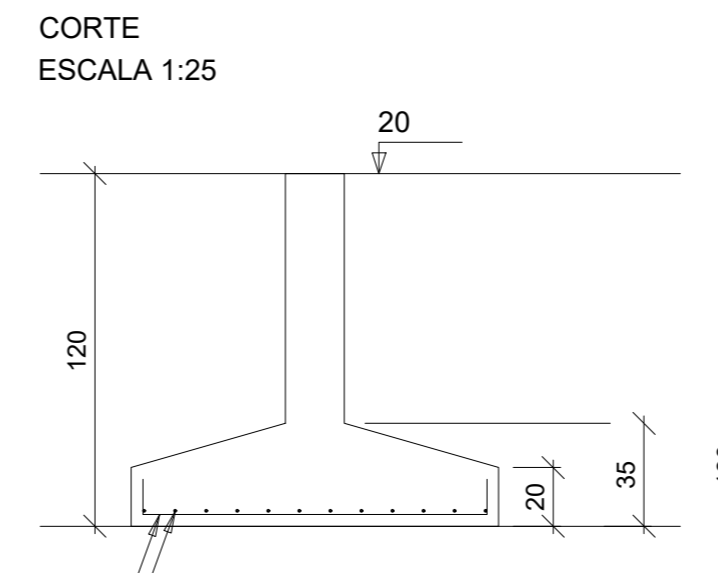
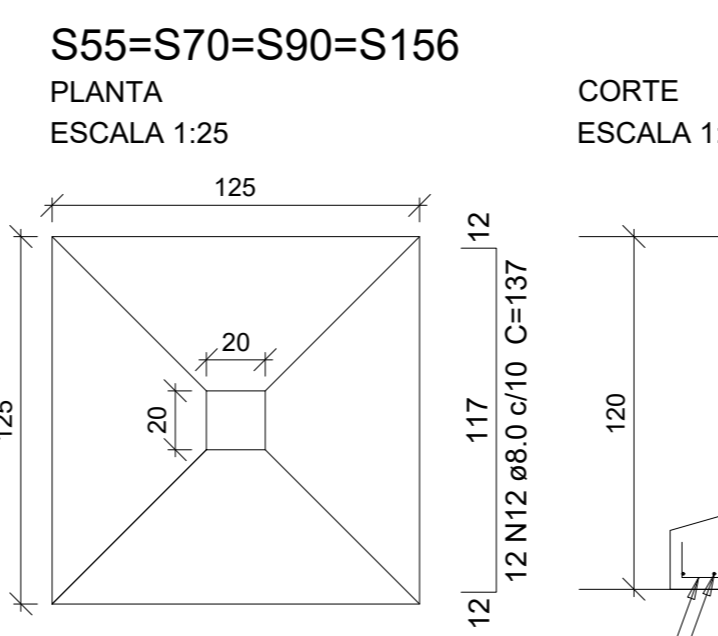
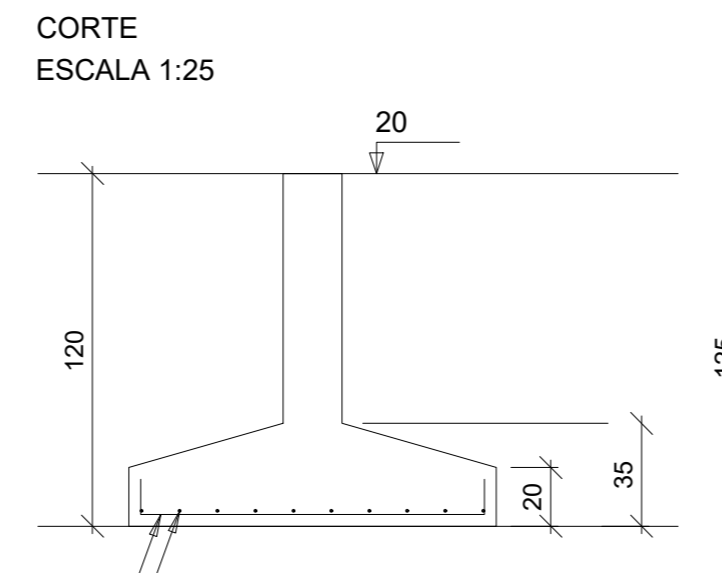
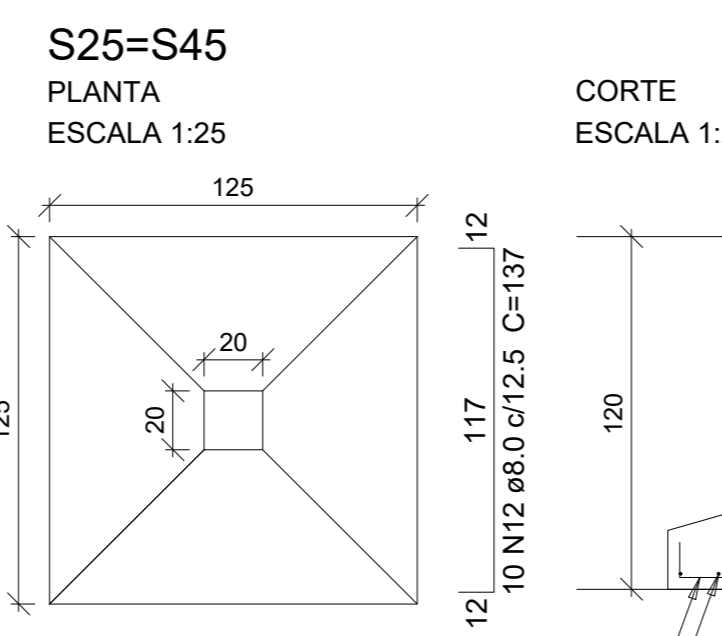
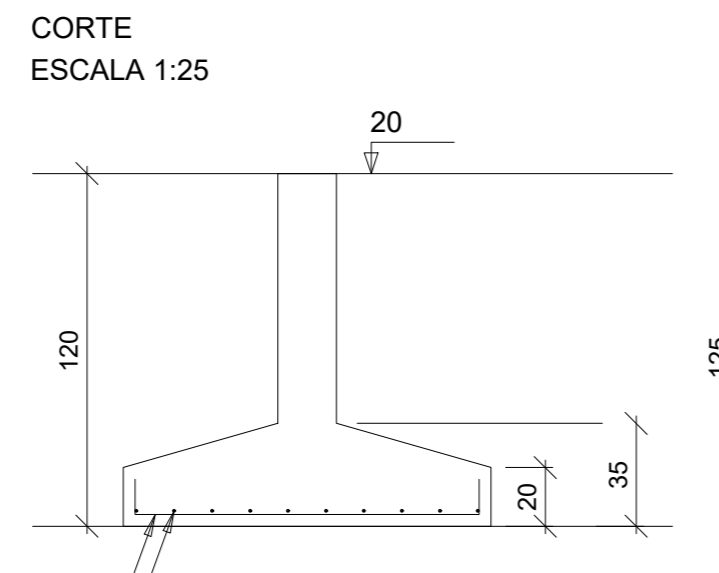
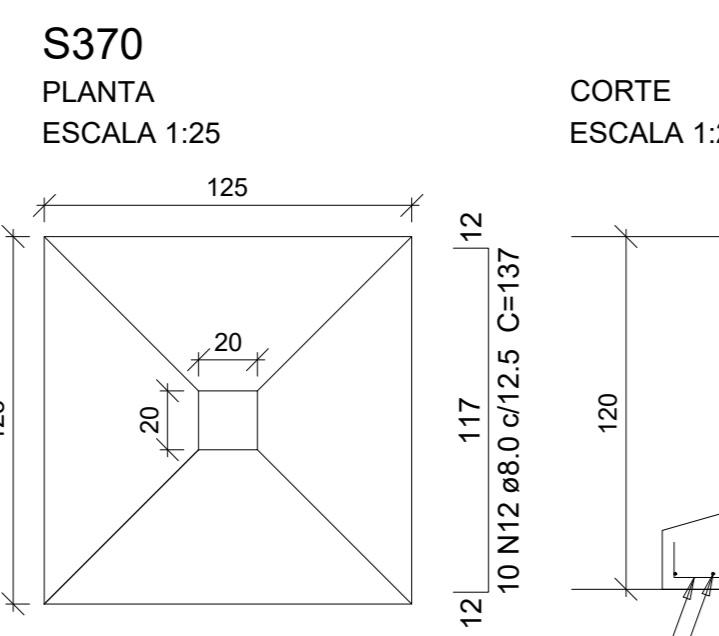
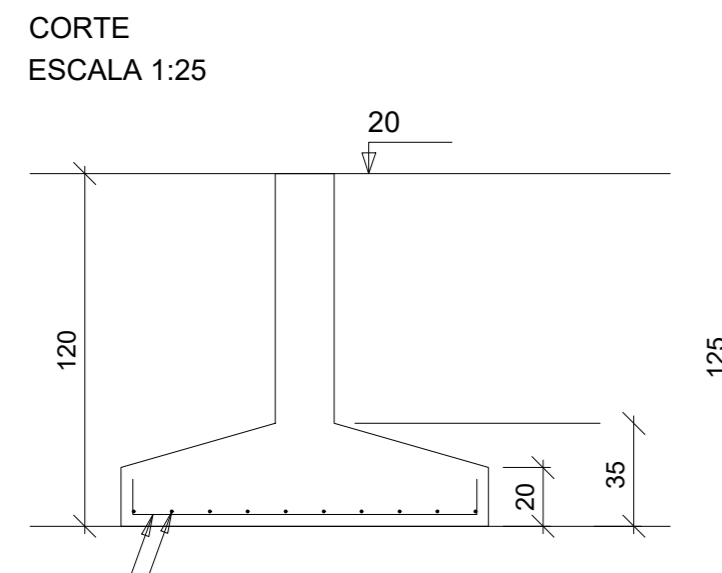
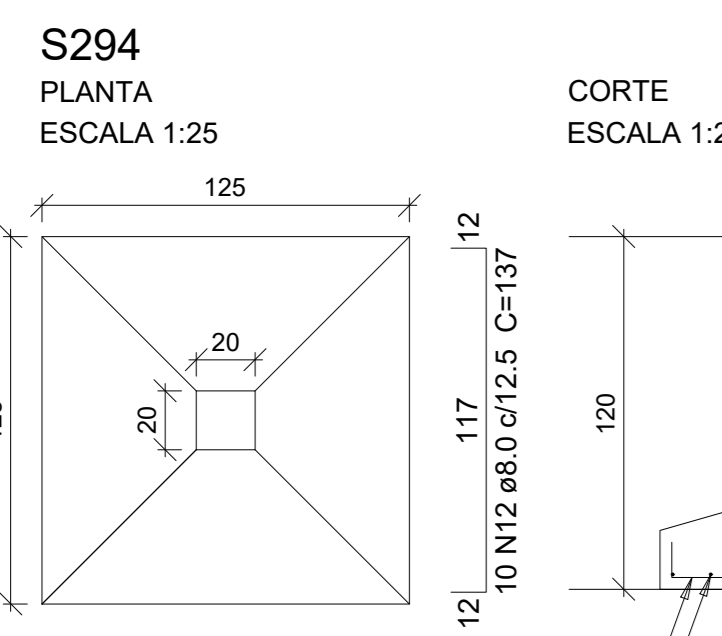
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01/10/2024 1:50









**Relação do aço**

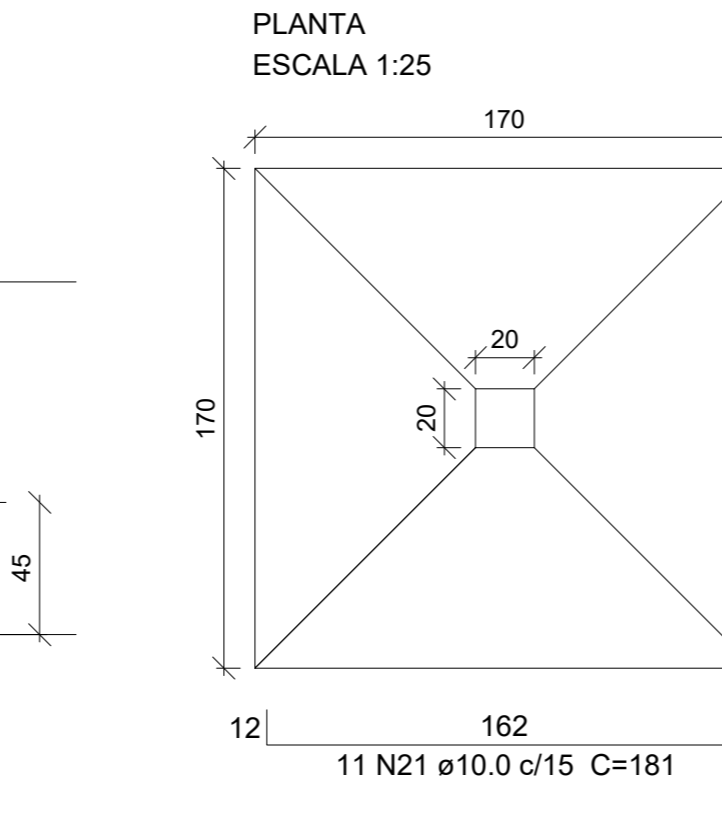
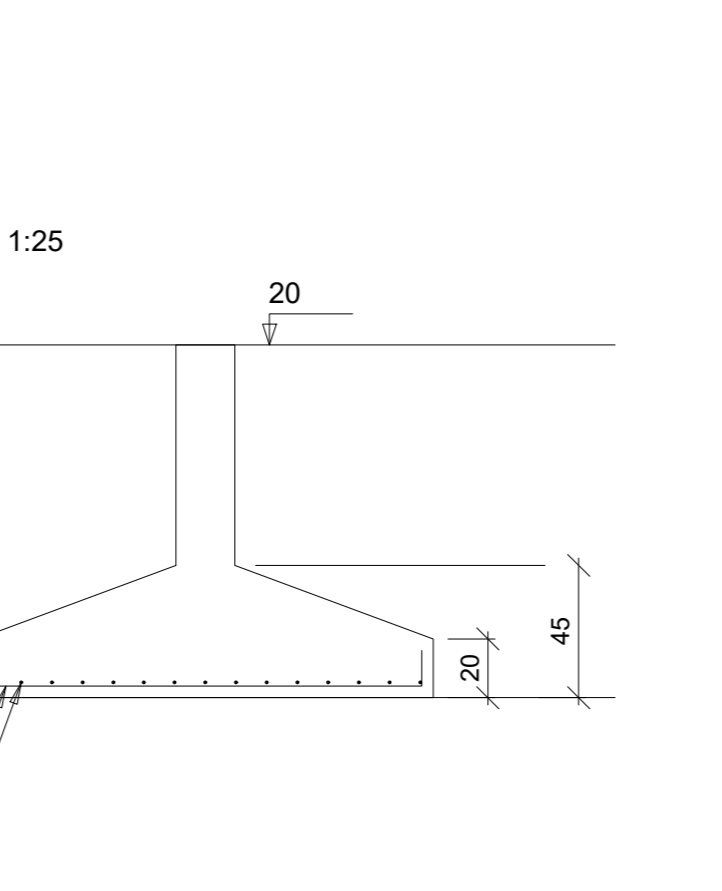
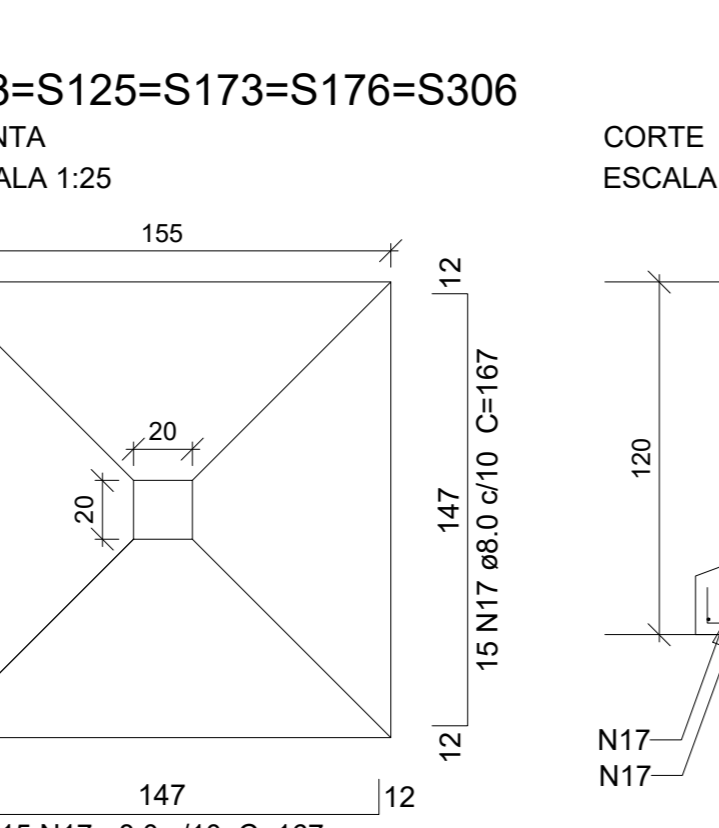
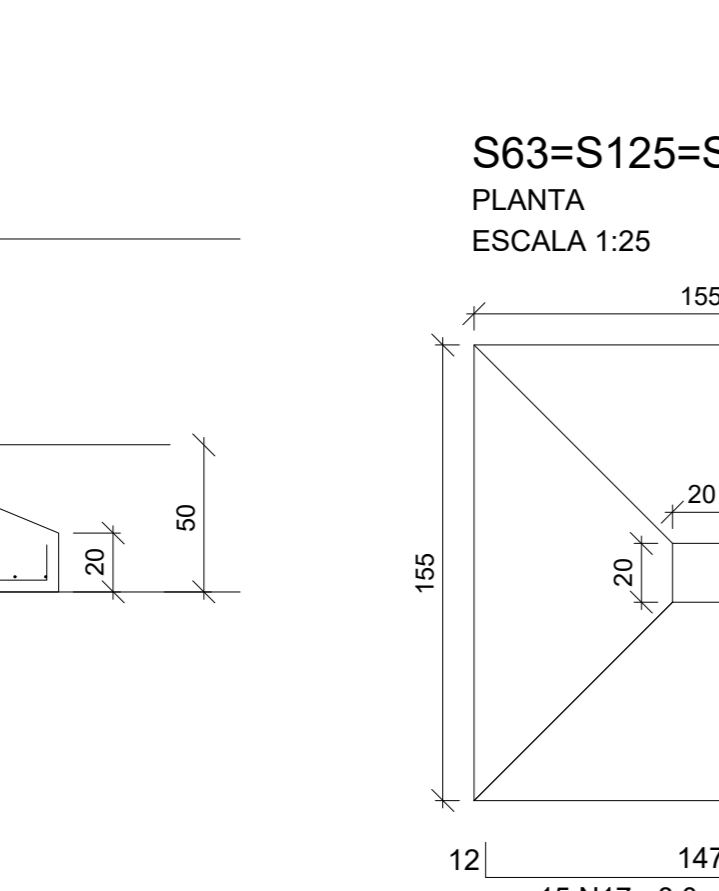
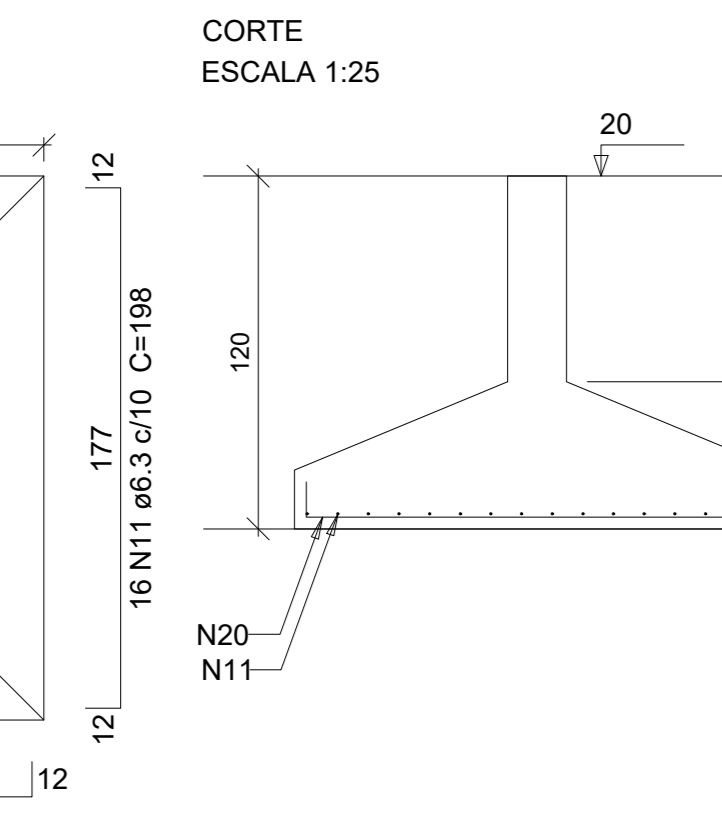
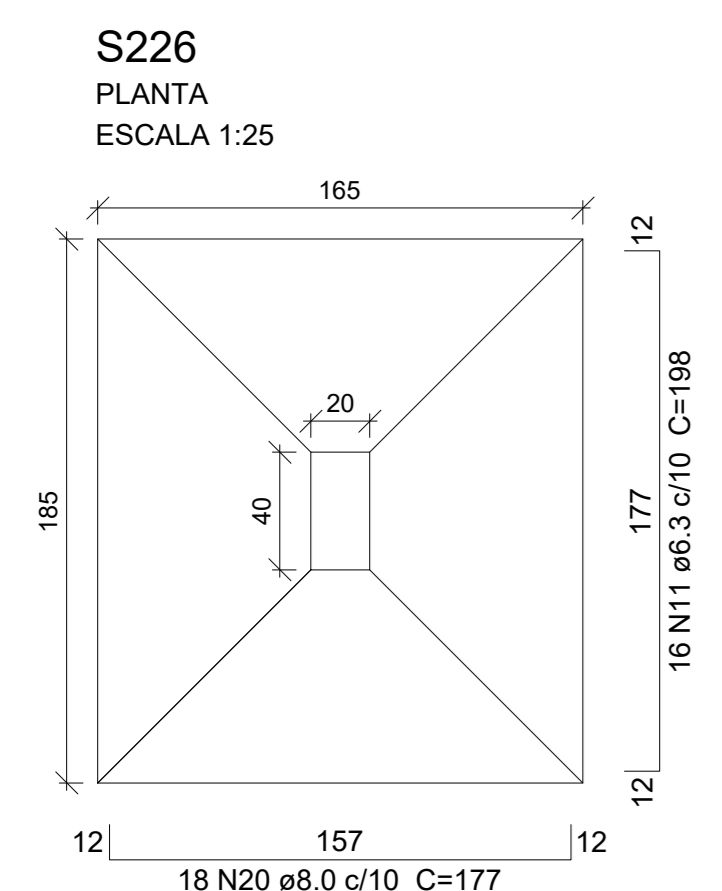
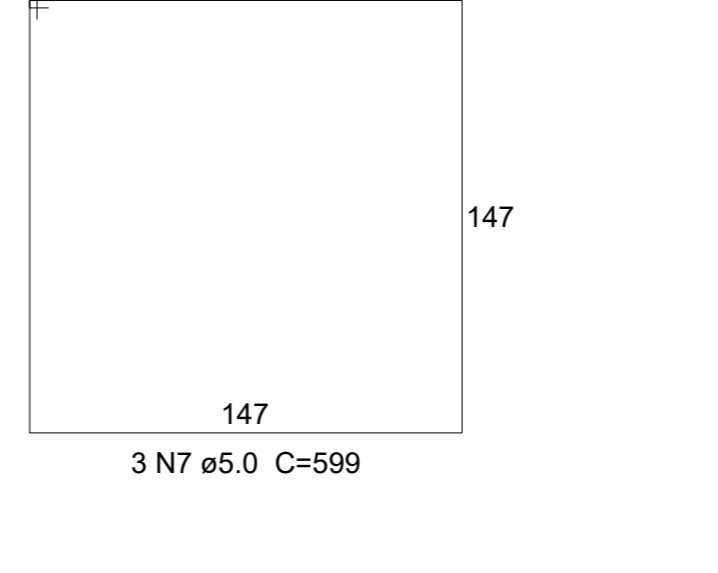
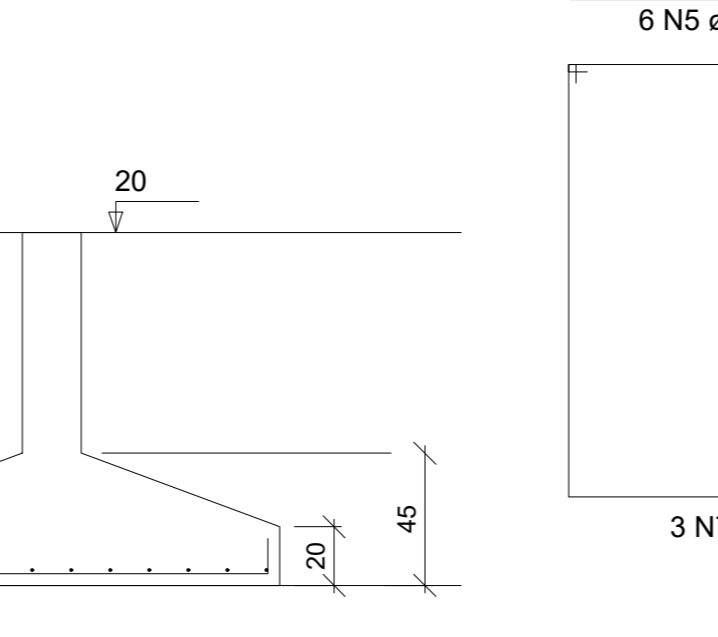
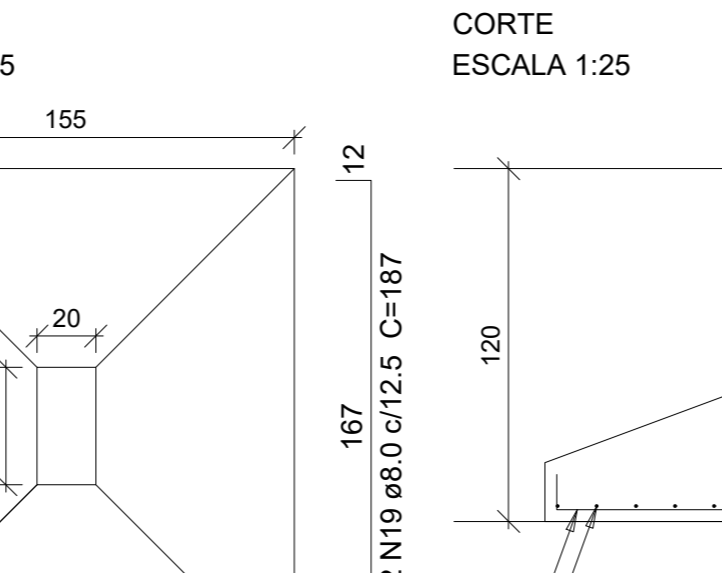
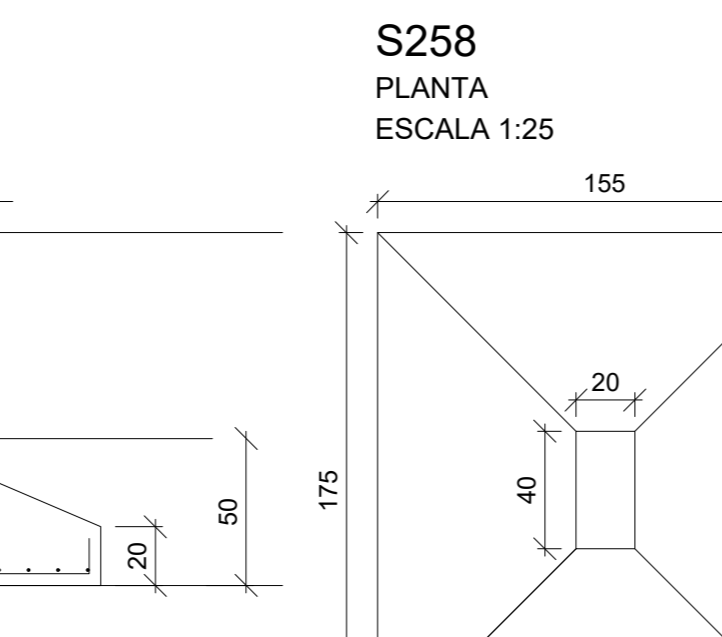
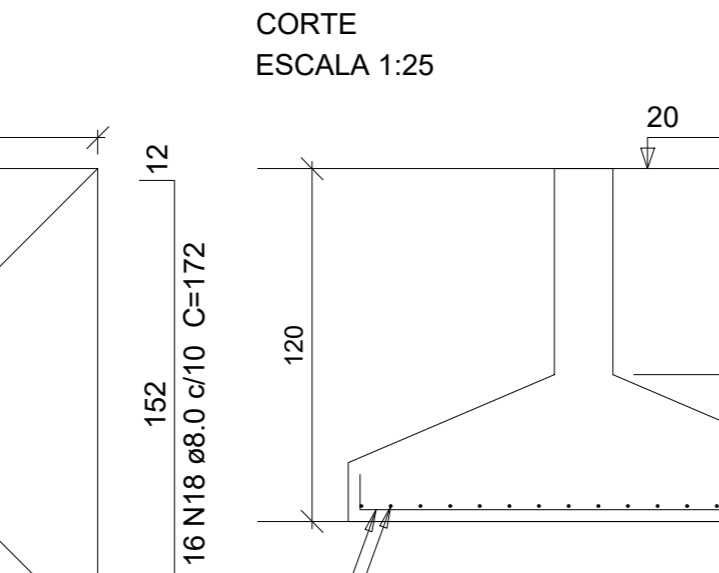
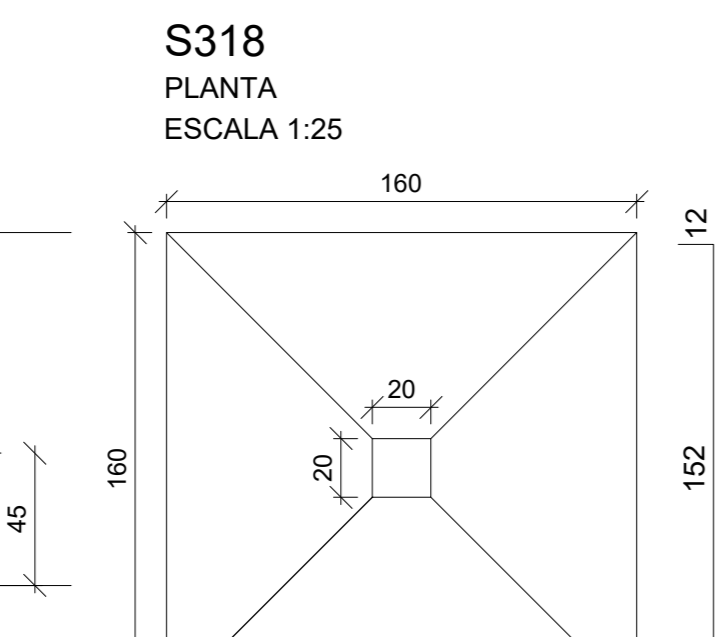
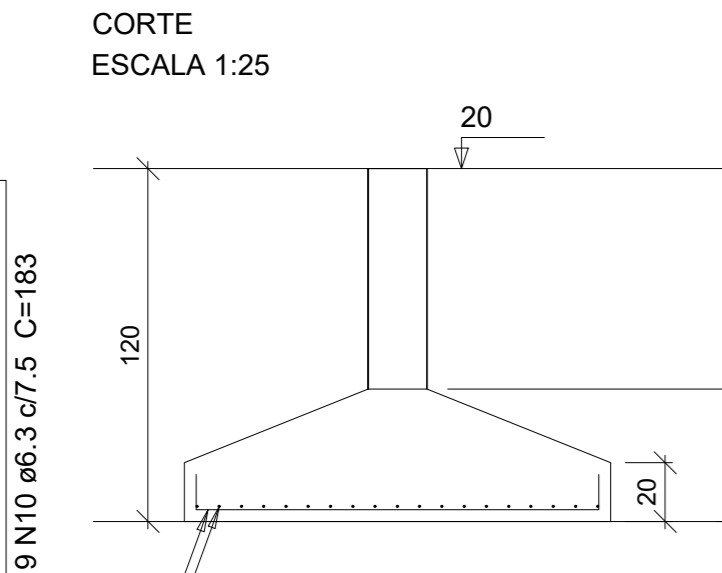
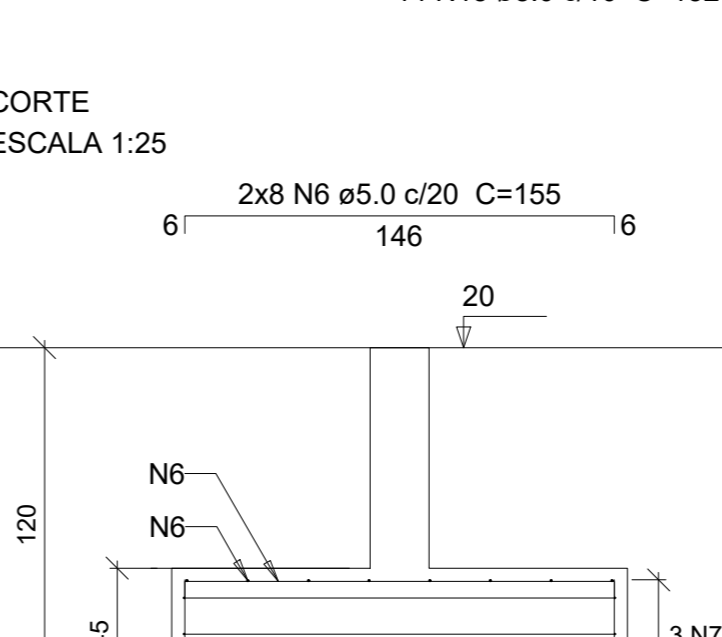
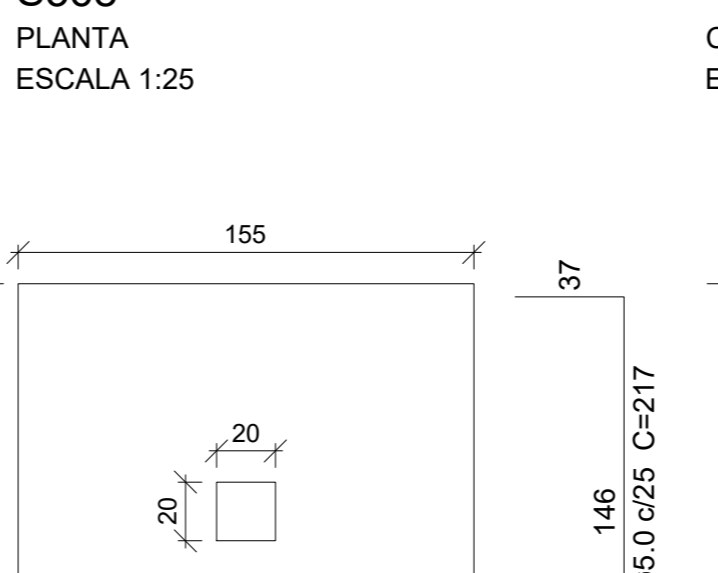
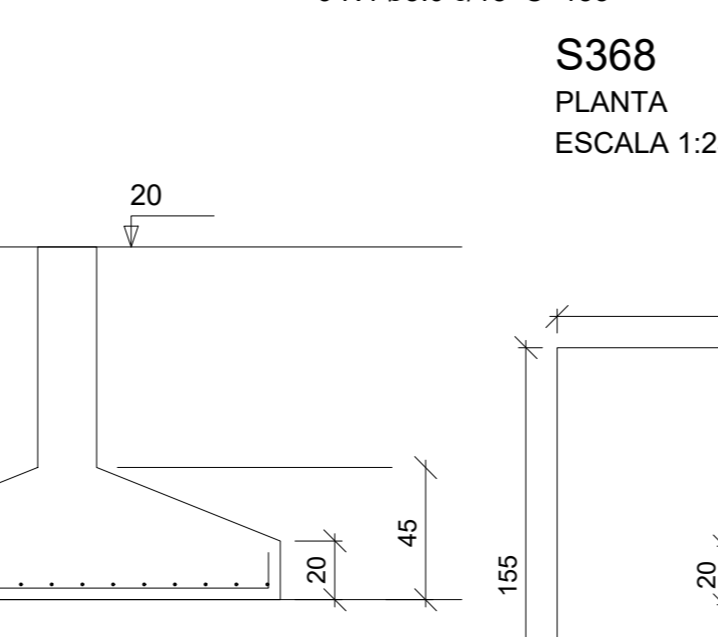
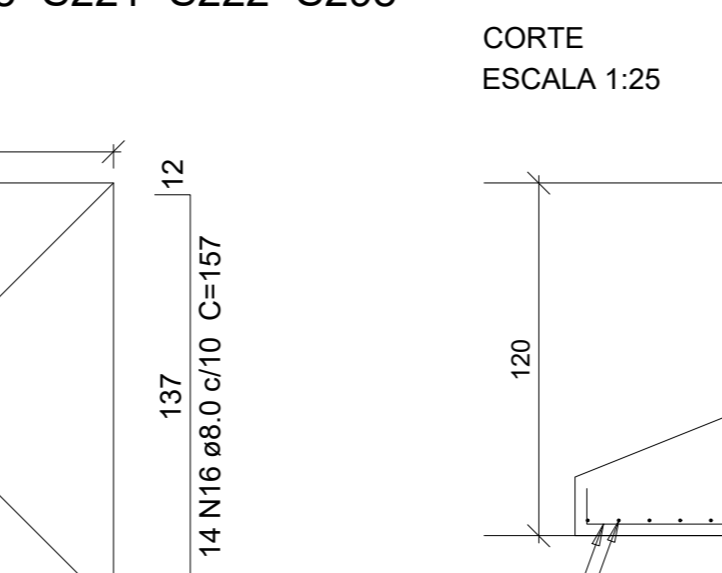
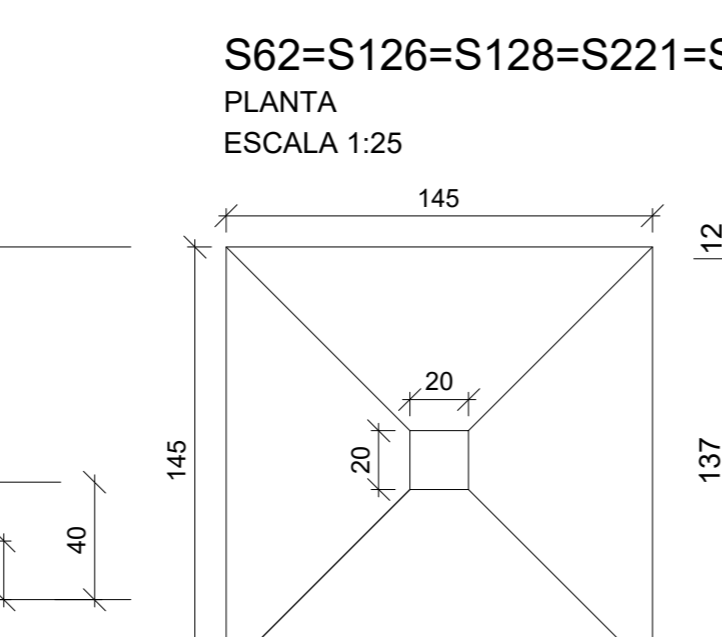
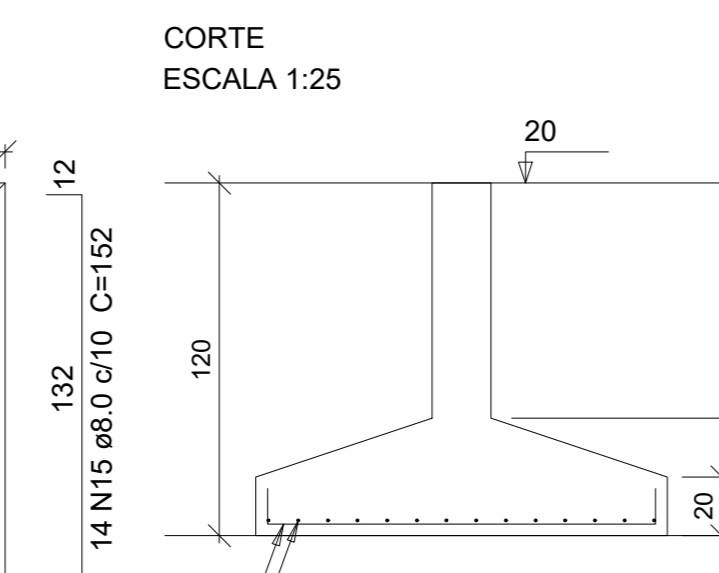
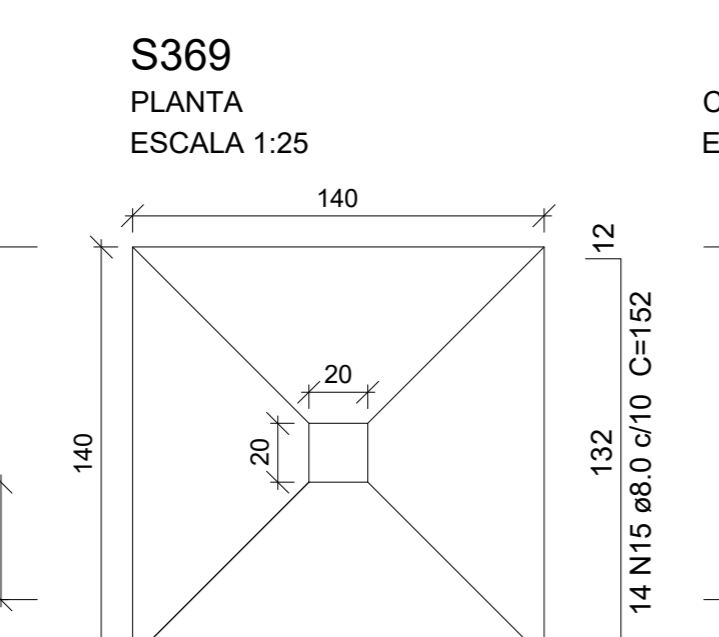
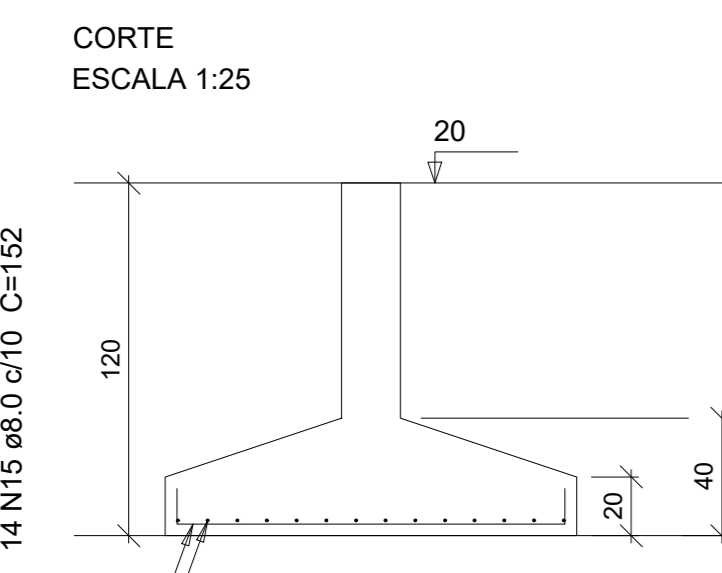
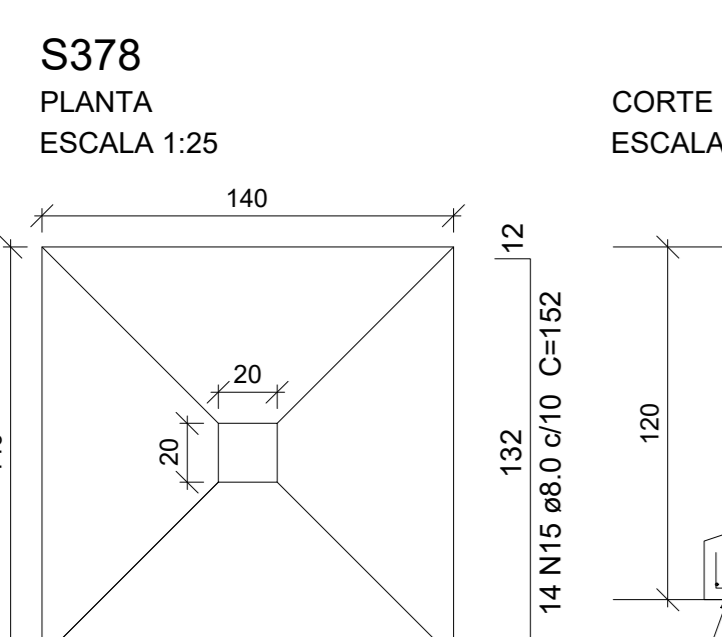
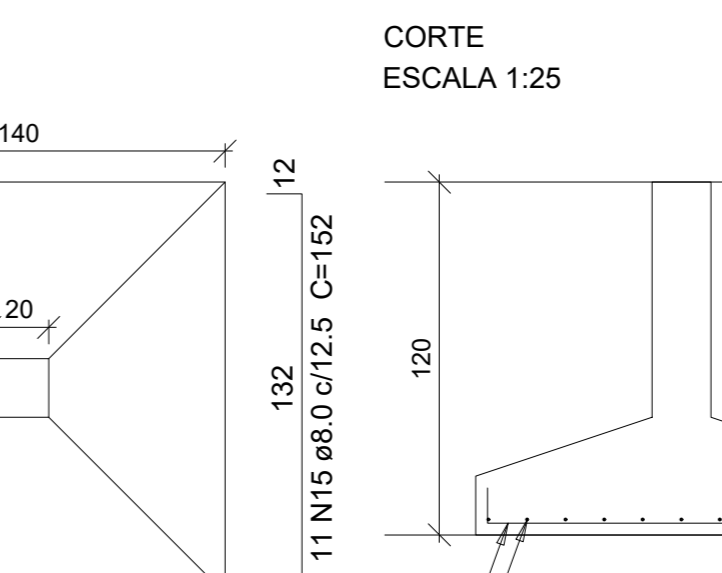
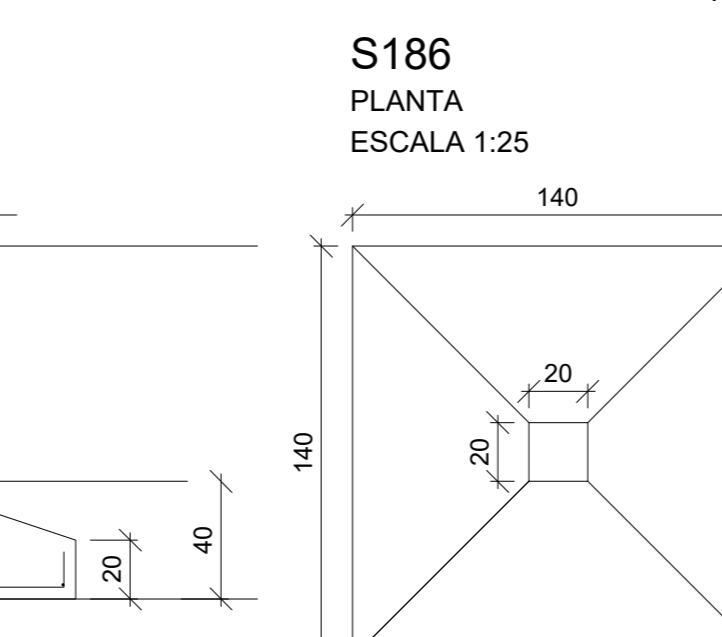
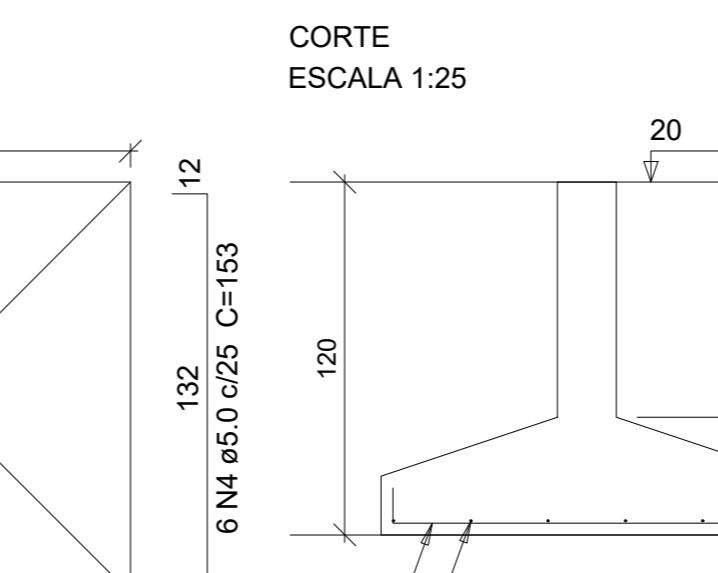
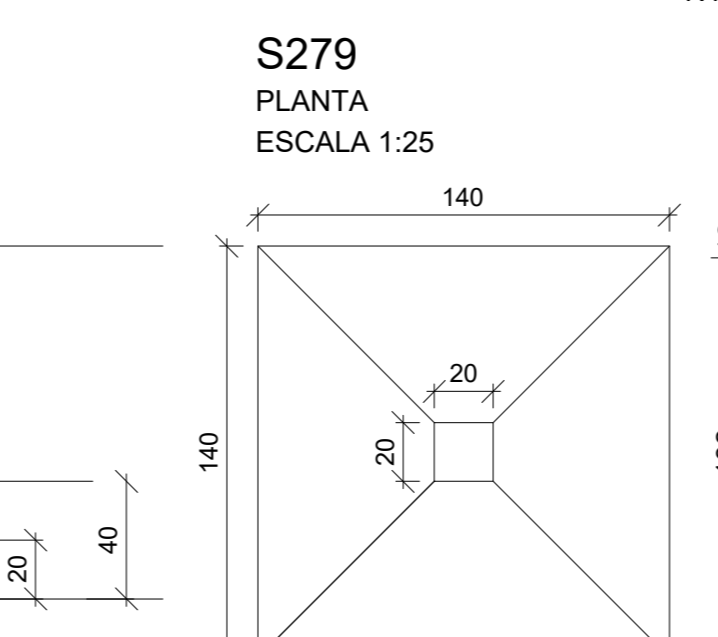
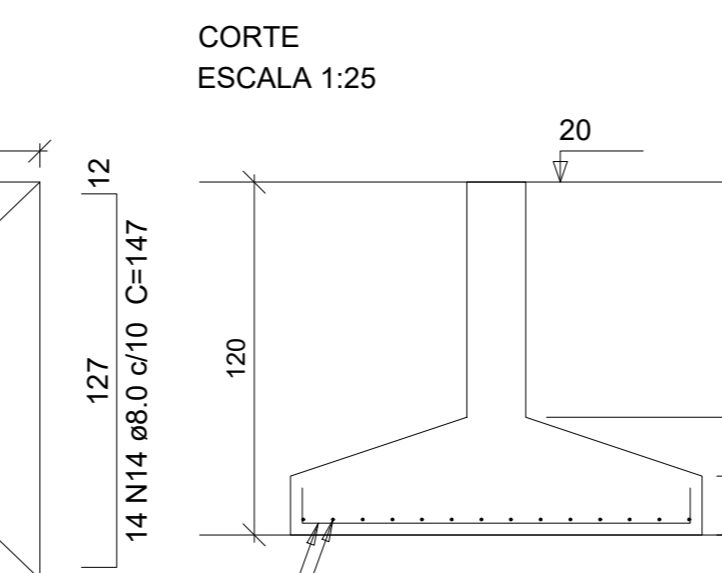
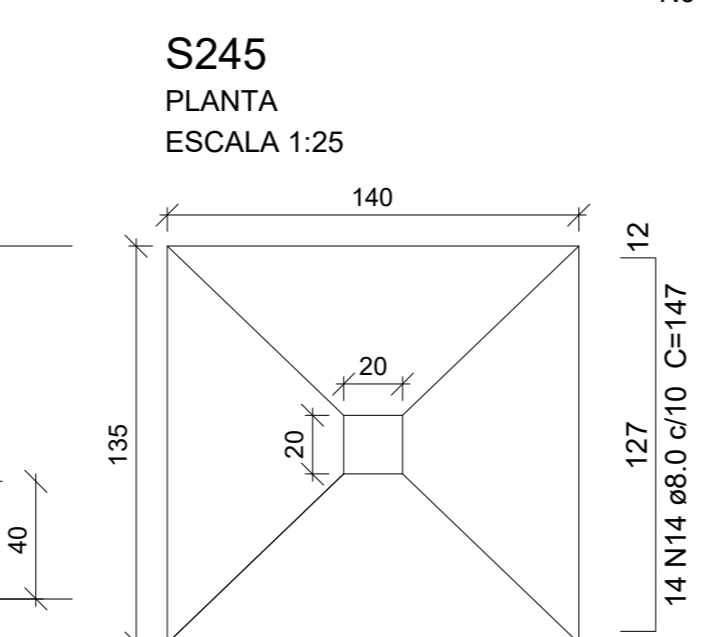
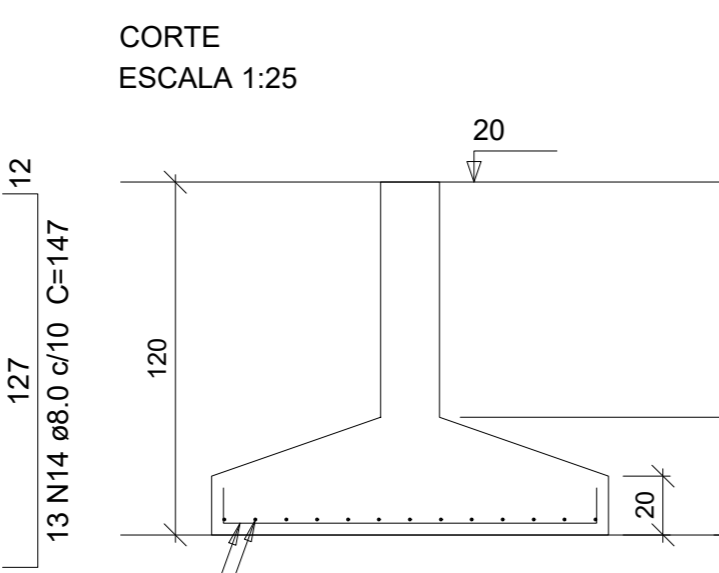
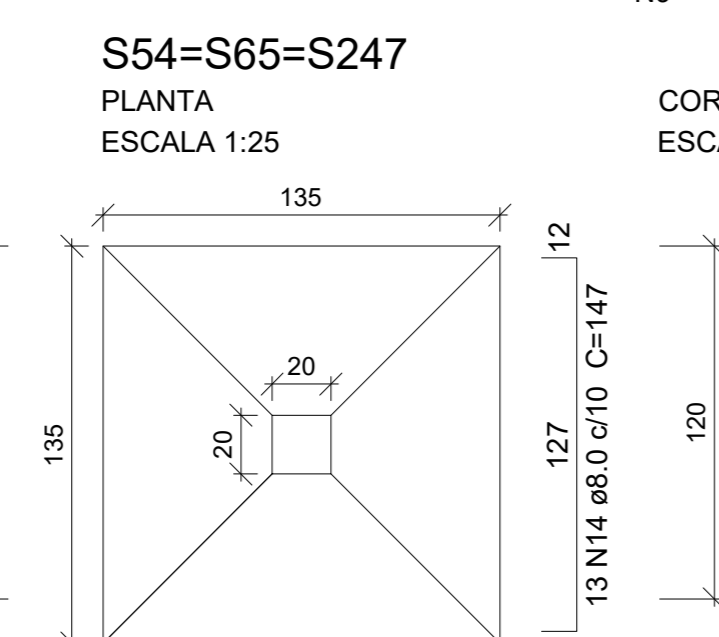
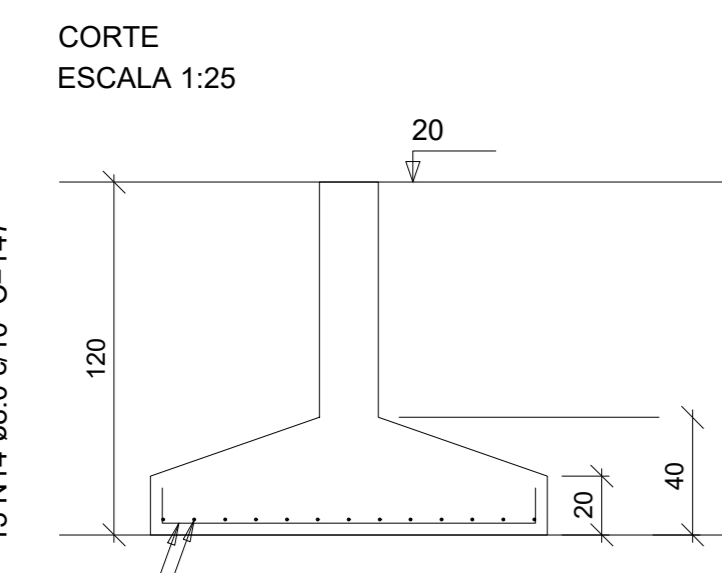
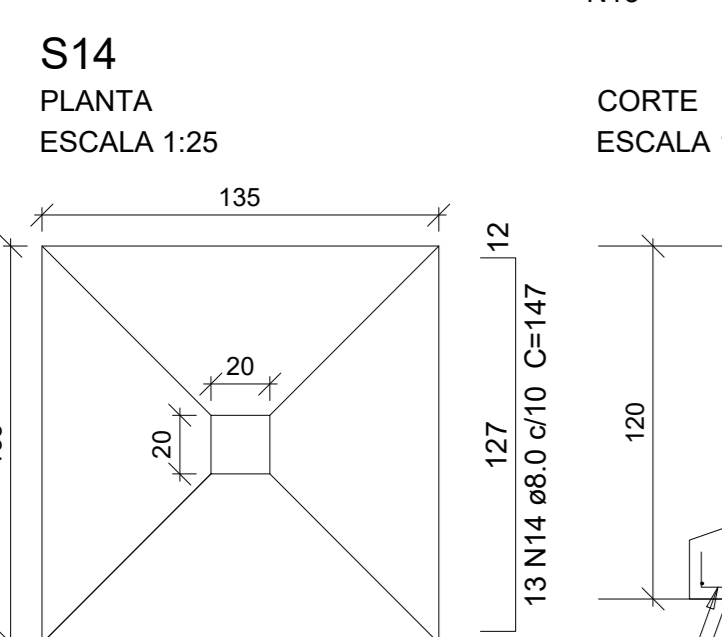
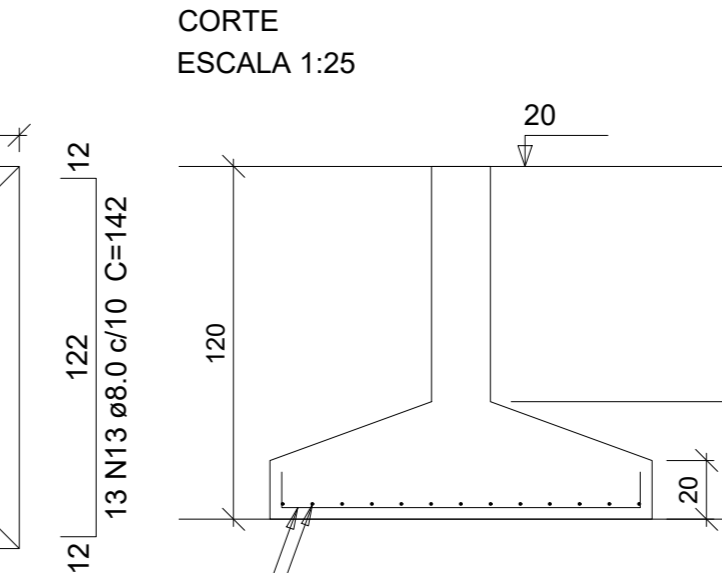
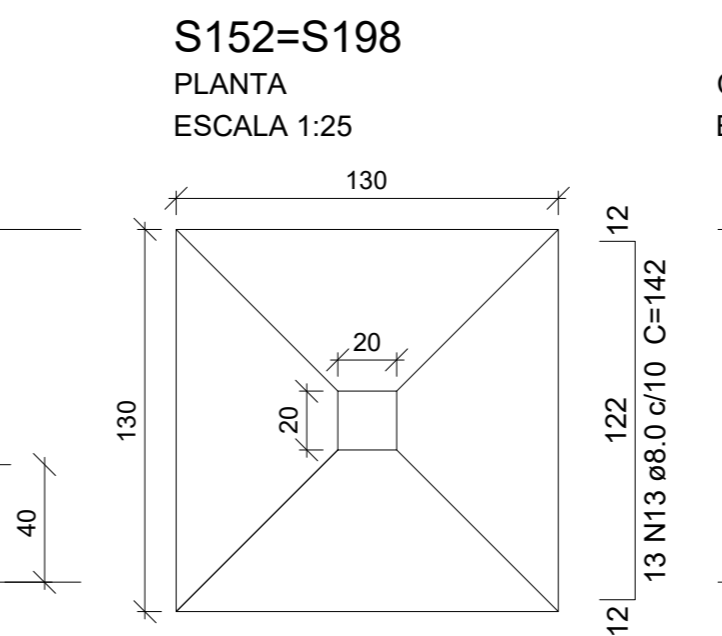
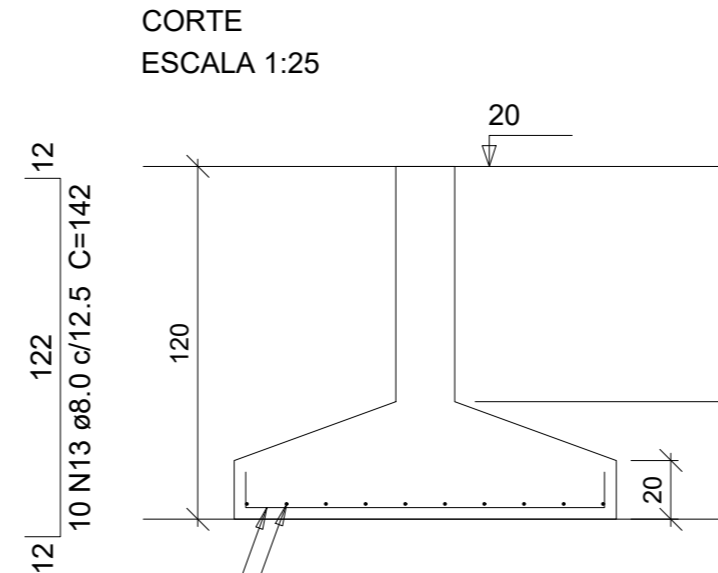
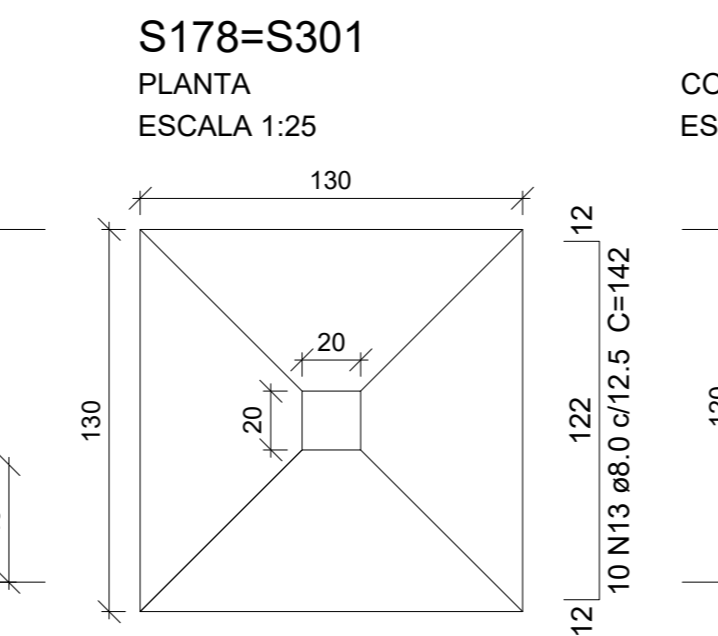
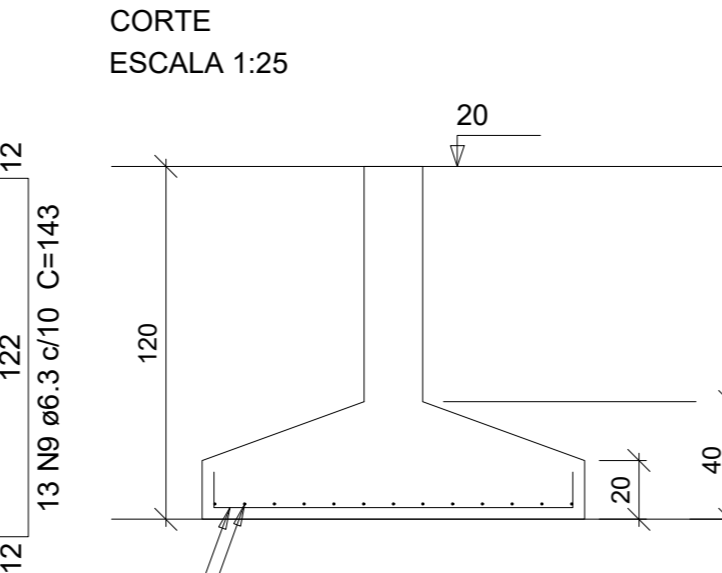
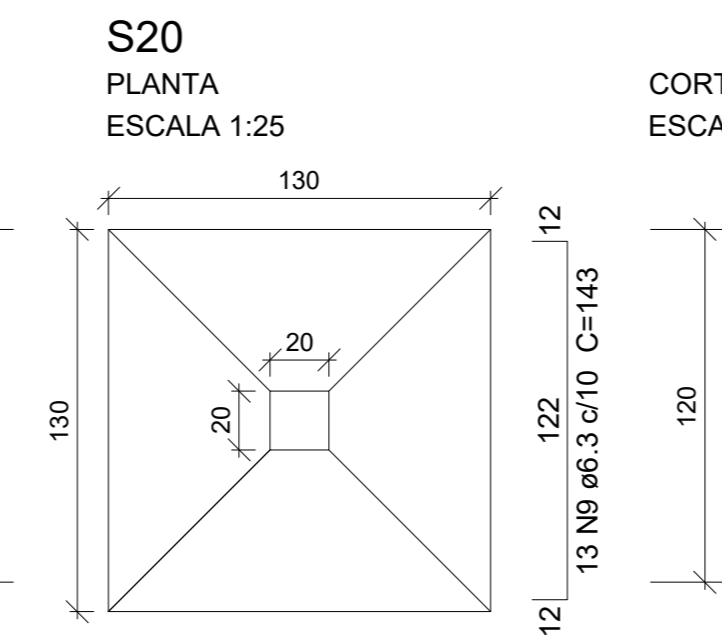
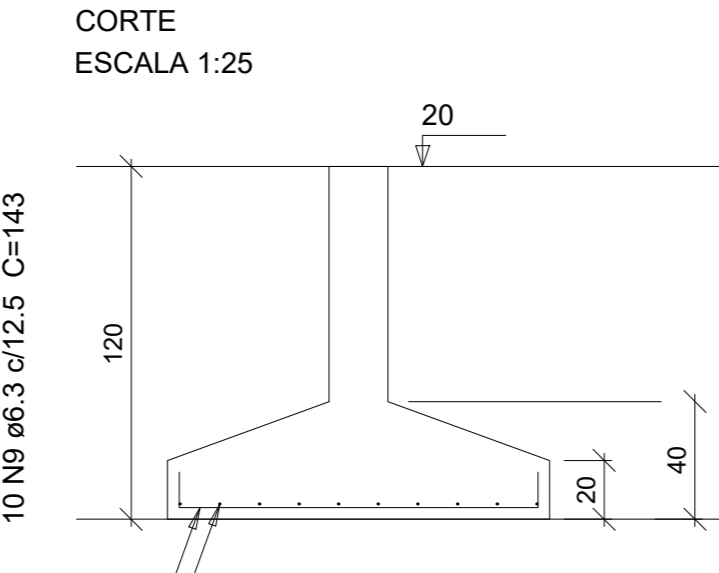
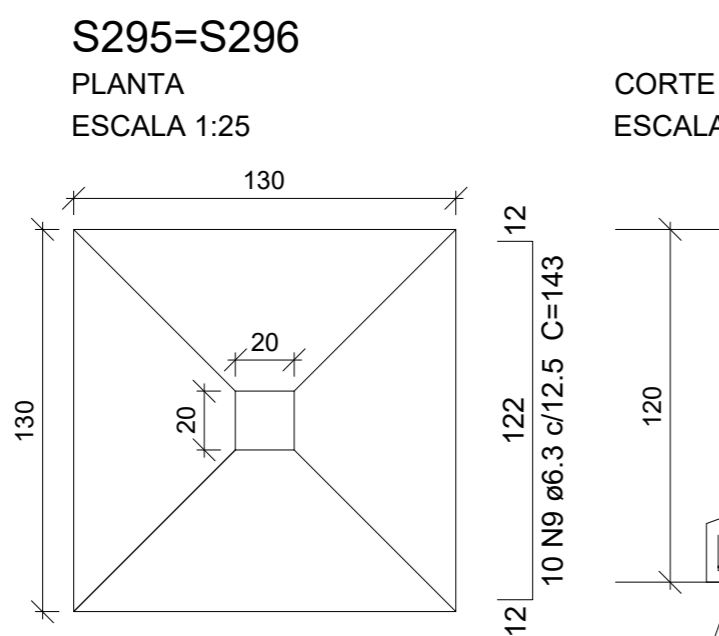
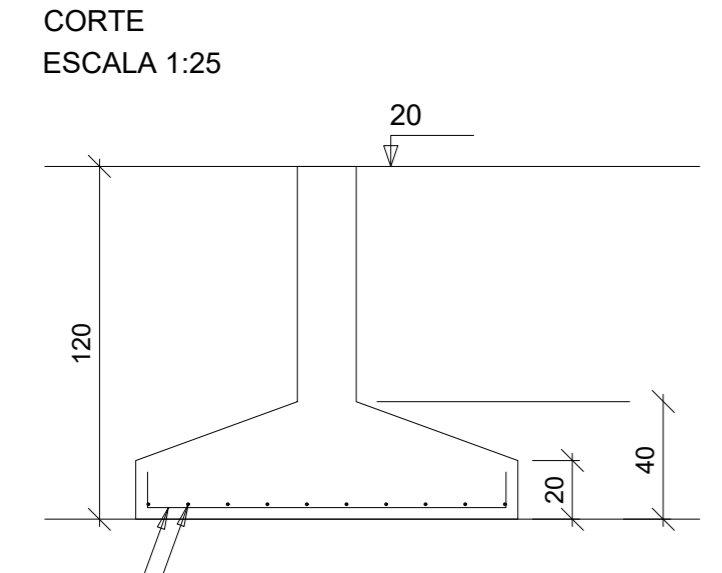
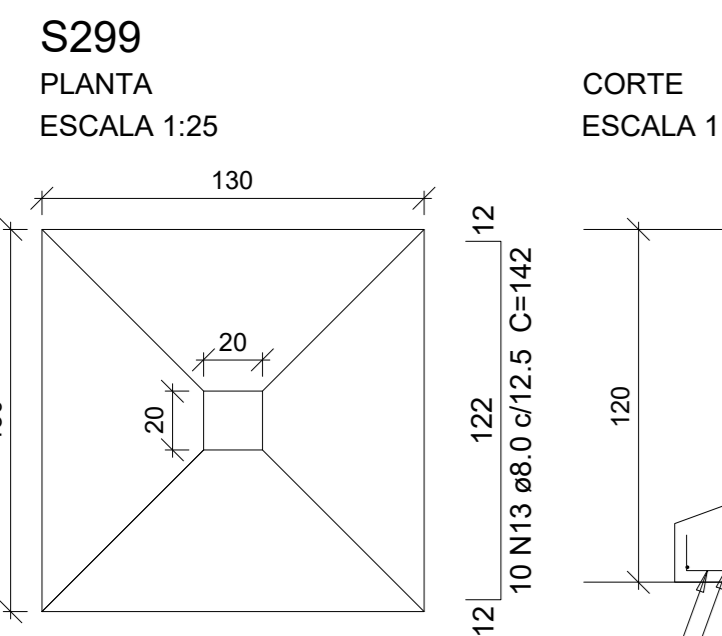
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5xS176	2xS178	S186
S226	S245	3xS247
S258	S279	S294
2xS295	S299	S318
S348	S349	S368
S369	S370	S378
S157-158		

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	12	182	2184
	2	5.0	14	130	1820
	3	5.0	3	499	1497
	4	5.0	15	153	2295
	5	5.0	12	217	2604
	6	5.0	16	155	2480
	7	5.0	3	599	1797
CA50	8	6.3	12	138	1656
	9	6.3	46	143	6578
	10	6.3	19	183	3477
	11	6.3	16	196	3168
	12	8.0	170	137	23290
	13	8.0	126	142	17892
	14	8.0	116	147	17052
	15	8.0	94	152	14288
	16	8.0	181	157	28417
	17	8.0	167	167	27880
	18	8.0	32	172	5504
19	8.0	12	187	2244	
20	8.0	18	177	3186	
21	10.0	22	181	3982	

**Resumo do aço**

AÇO	DIAM (mm)	C.TOTAL (m)	PESO (kg)
CA50	6.3	148.8	36.4
	8.0	1397.7	551.5
	10.0	39.9	24.6
CA60	5.0	146.8	22.6
<b>PESO TOTAL (kg)</b>			
CA50		612.4	
CA60		22.6	

Volume de concreto (C-30) = 25.02 m³  
Área de forma = 50.87 m²



Revisões da prancha

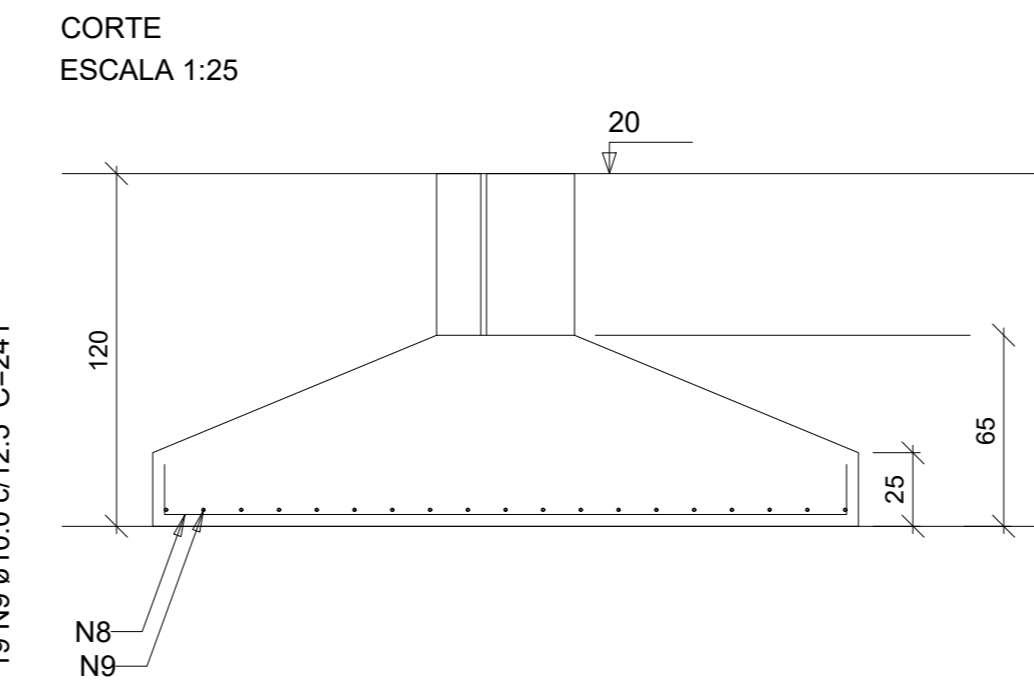
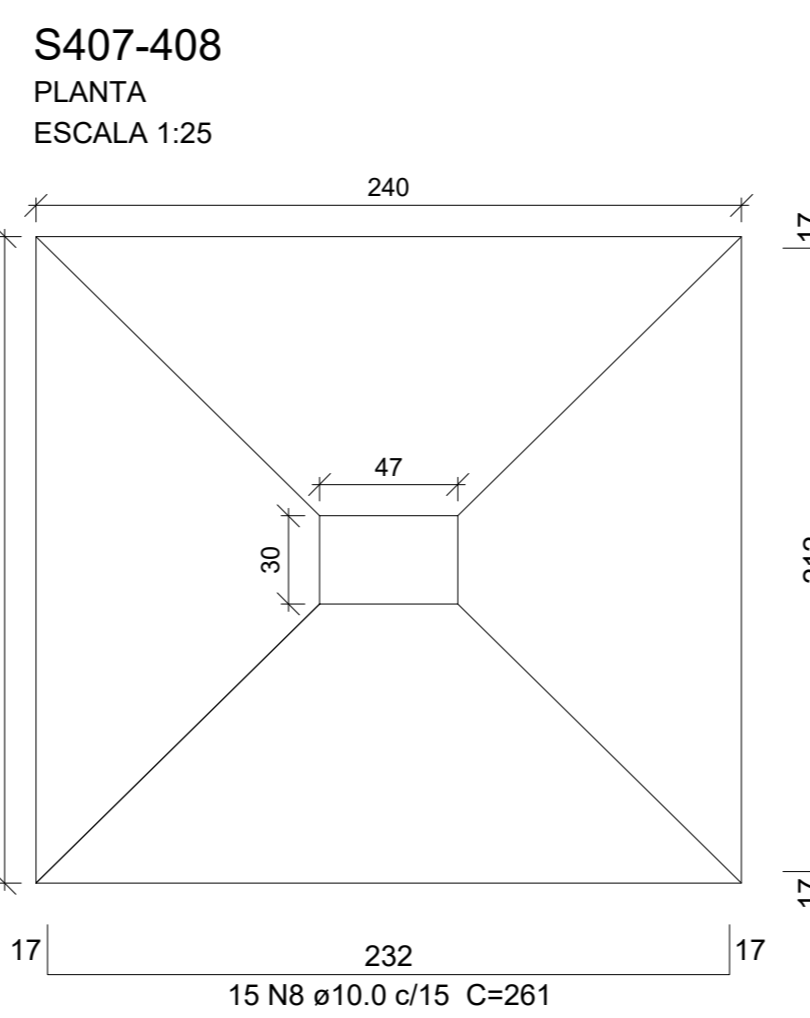
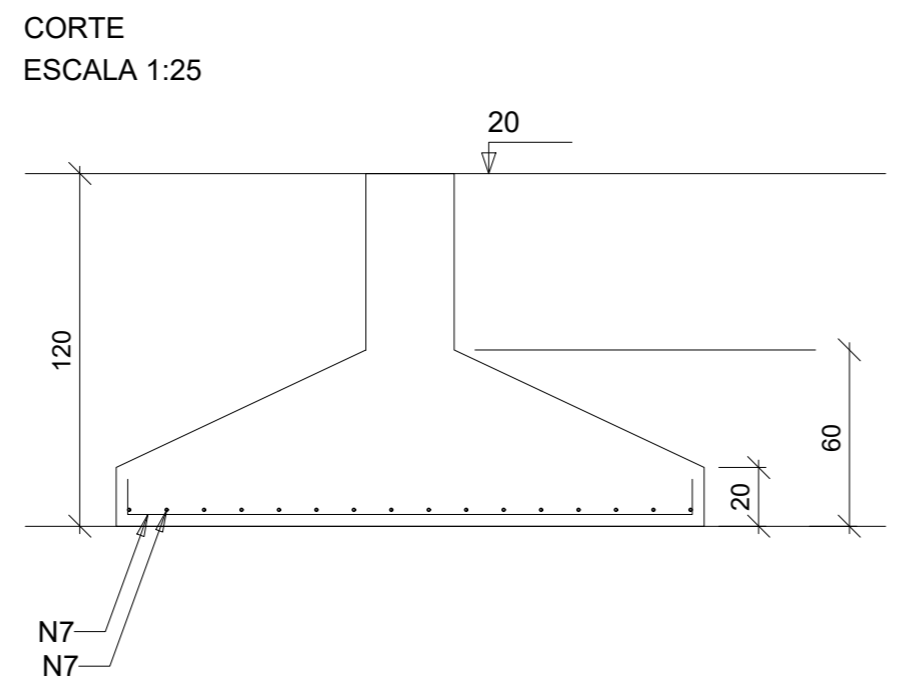
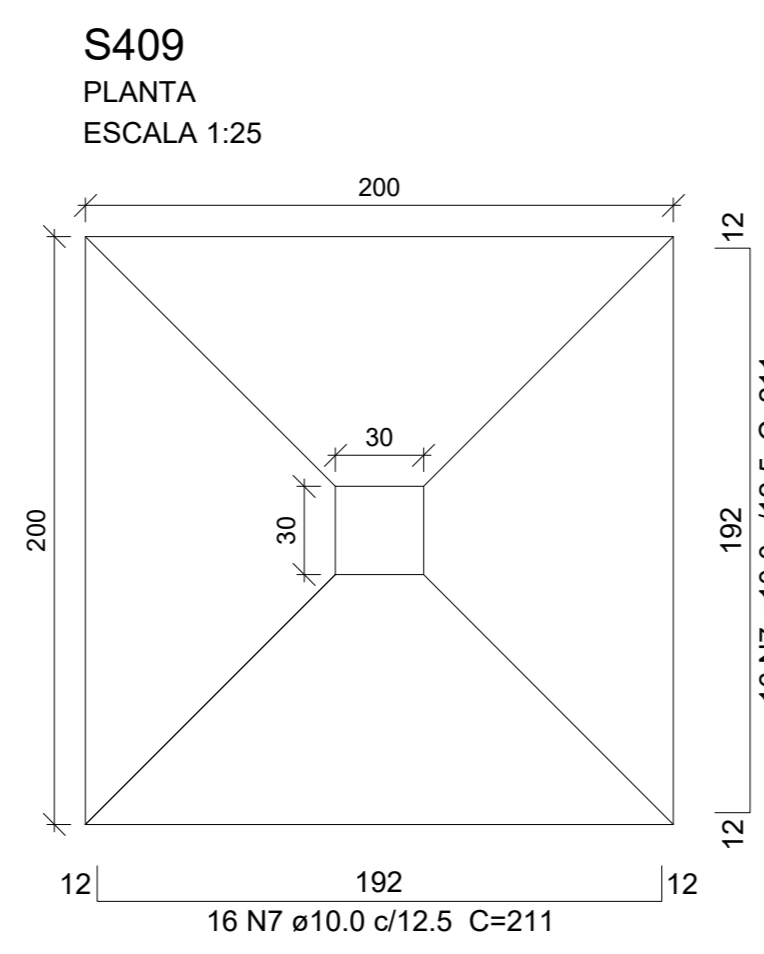
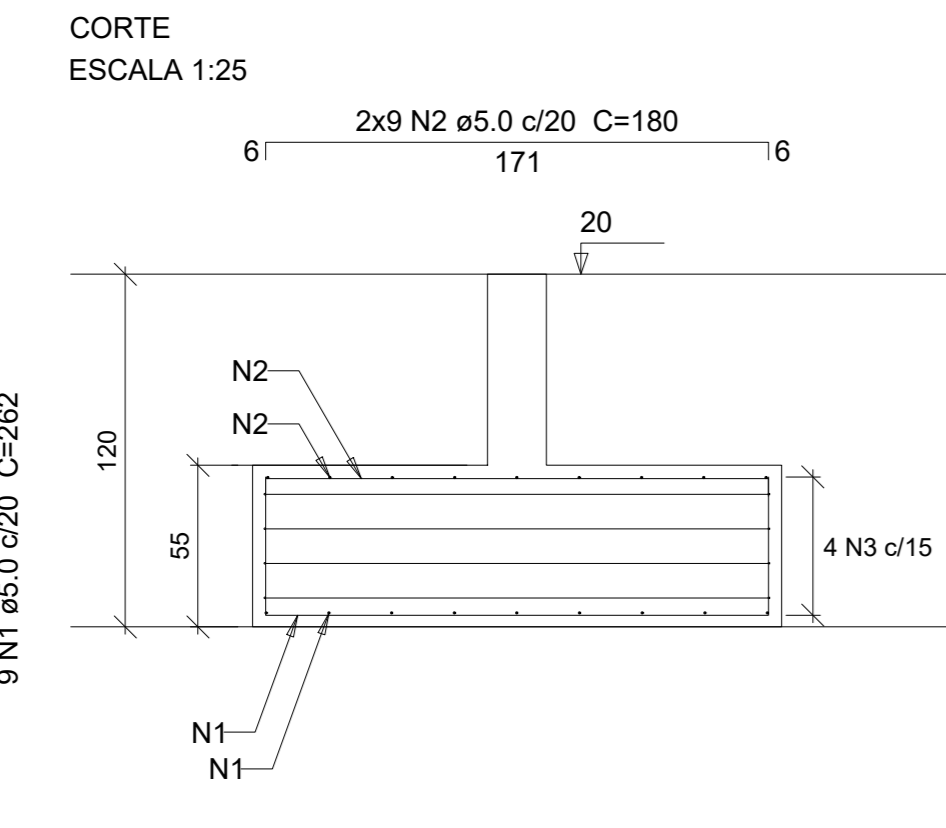
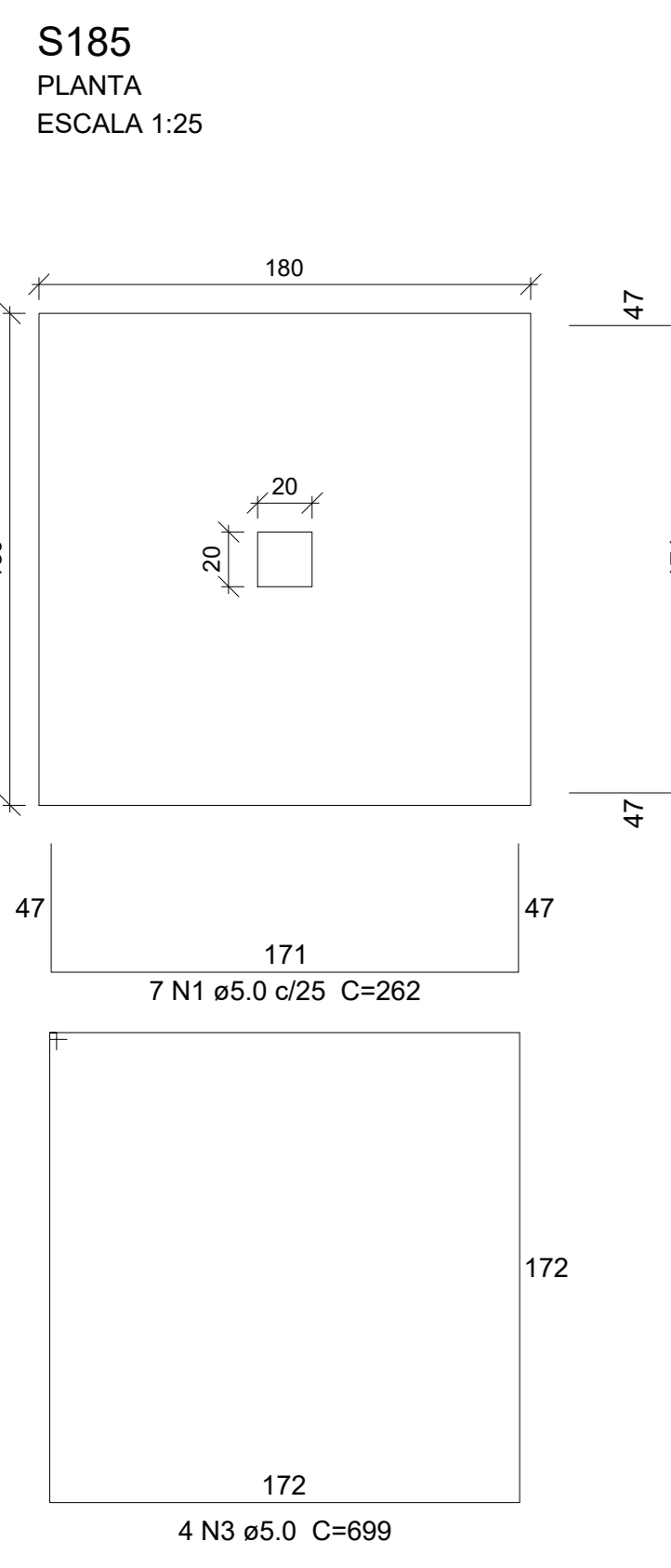
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N°	Comentário	Autor	Data

**ESTADO DO CEARÁ**  
**PREFEITURA MUNICIPAL DE QUIXADÁ**

CONCRETO	F24 = 30 MPa	PROJETO = 1
CLIENTE	PREFEITURA MUNICIPAL DE QUIXADÁ - CE	PRONOME =
OBRA	PRÉDIO PARA USO HOSPITALAR	<b>5</b>
TÍTULO	Sapatas do pavimento PISO MORTO	TOTAL 26
DATA	01/03/2024	FOLHA 00

José Klauere Felício Soares  
 Engenheiro Civil - CREA 151564/07-1





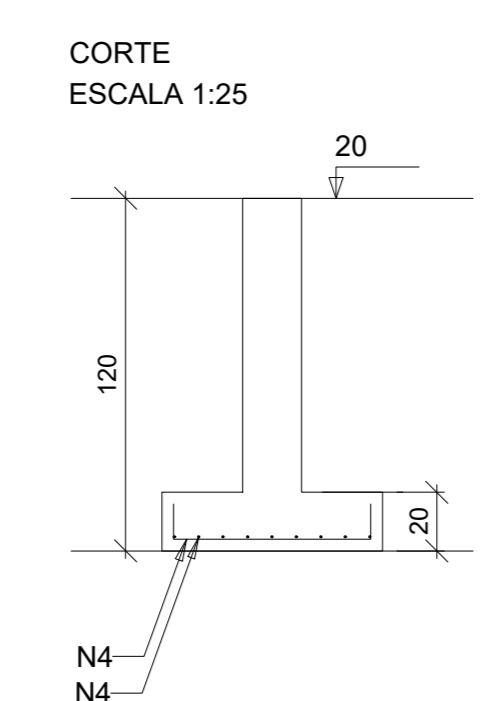
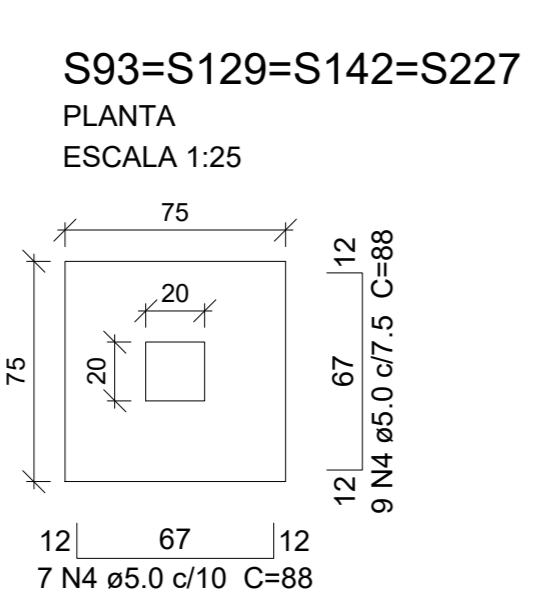
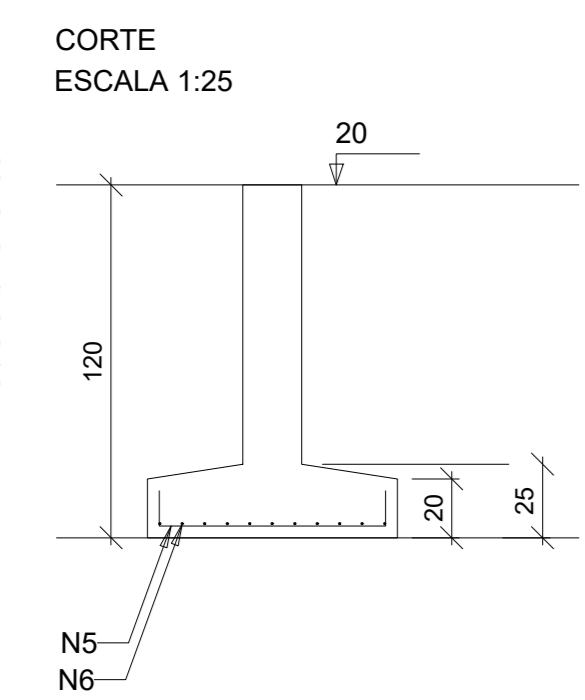
**Relação do aço**

4xS129	S185	S269			
S409	S407-408				
AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	16	262	4192
	2	5.0	18	180	3240
	3	5.0	4	699	2796
	4	5.0	64	88	5632
	5	5.0	10	98	980
CA50	6	5.0	11	93	1023
	7	10.0	32	211	6752
	8	10.0	15	261	3915
	9	10.0	19	241	4579

**Resumo do aço**

AÇO	DIAM (mm)	C.TOTAL (m)	PESO (kg)
CA50	10.0	152.5	94
CA60	5.0	178.7	27.5
PESO TOTAL (kg)			
CA50			94
CA60			27.5

Volume de concreto (C-30) = 5.97 m³  
Área de forma = 10.92 m²



Revisões da prancha

Nº	Comentário	Autor	Data
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0	Emissão Inicial	->	->

**ESTADO DO CEARÁ**  
**PREFEITURA MUNICIPAL DE QUIXADÁ**

CONCRETO: Fc = 30 MPa

CLIENTE: PREFEITURA MUNICIPAL DE QUIXADÁ - CE

OBRA: PRÉDIO PARA USO HOSPITALAR

TÍTULO: Sapatas do pavimento PISO MORTO

PROJETO Nº: 6

TOTAL: 26

REV. Nº: 00

DATA: 01/03/2024 ESCALA: 1:50 PROJETO: MARRAS-VIGAS-REDE LOCAL: FASE: 01

*Jose Nelson F. de A. Almeida*  
Jose Nelson F. de A. Almeida  
Eng. Civil - CREA/CE 0156403-7



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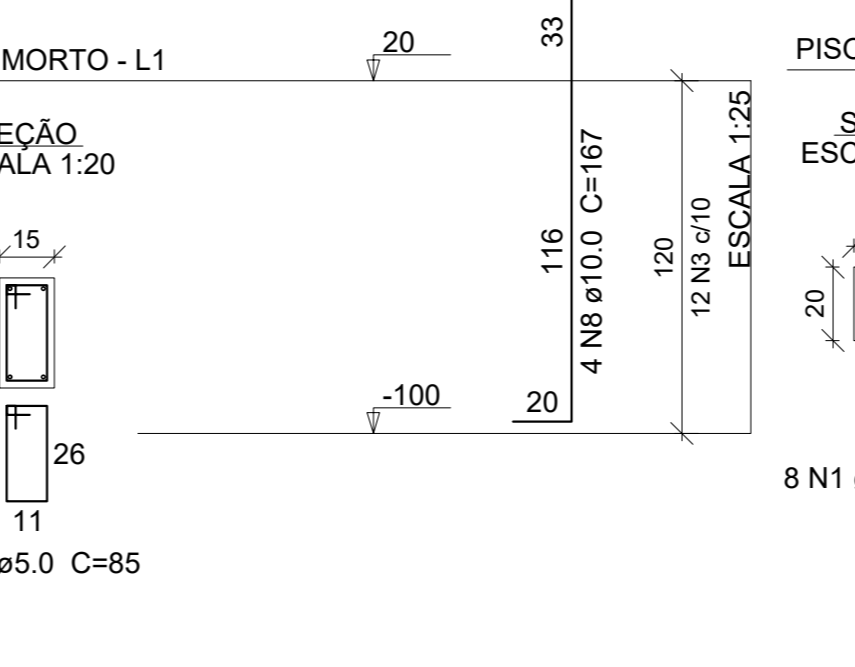
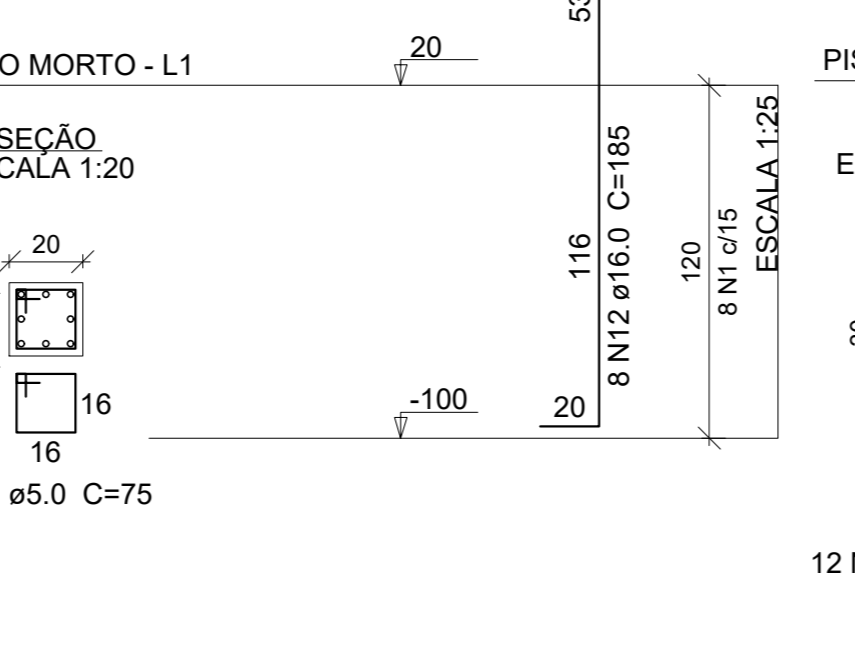
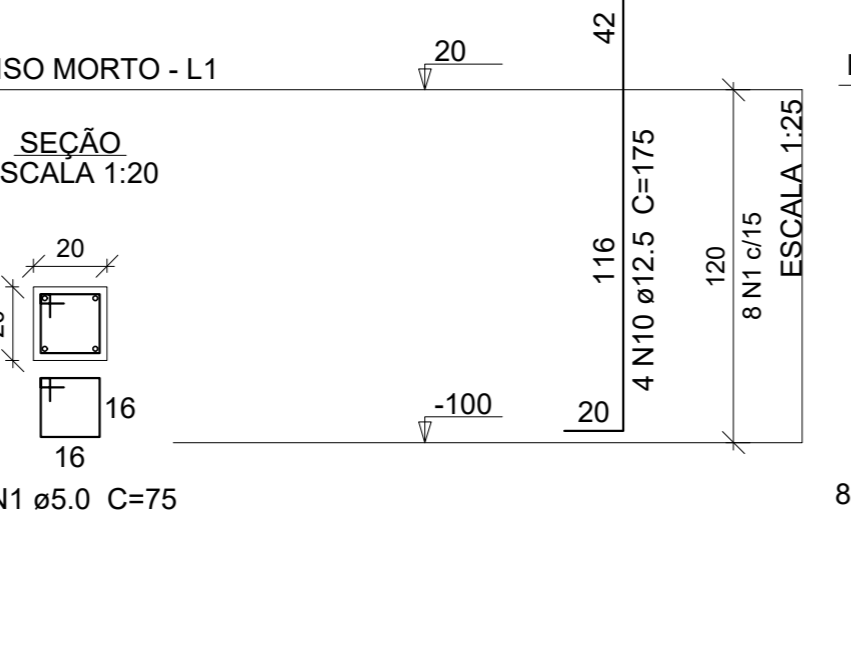
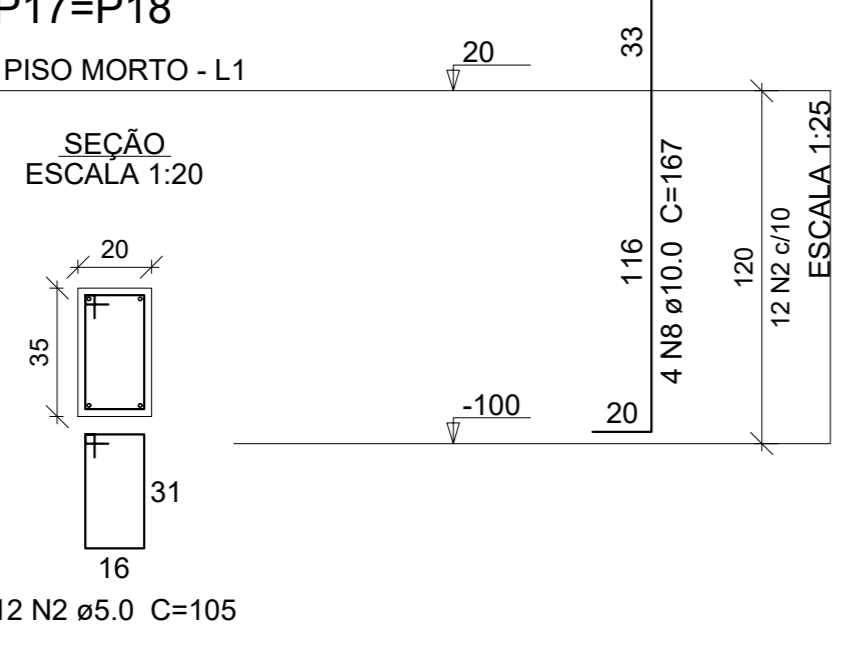
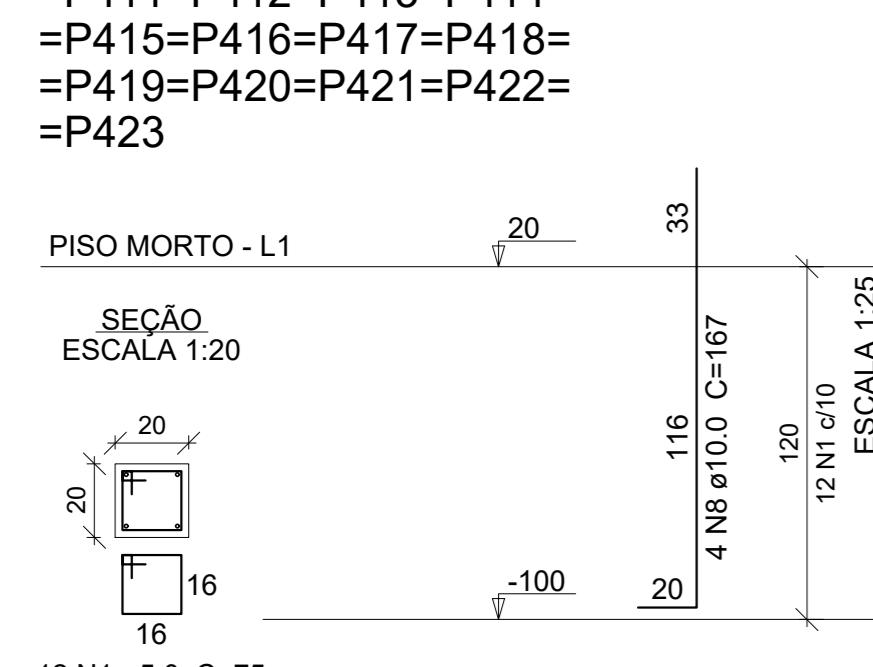
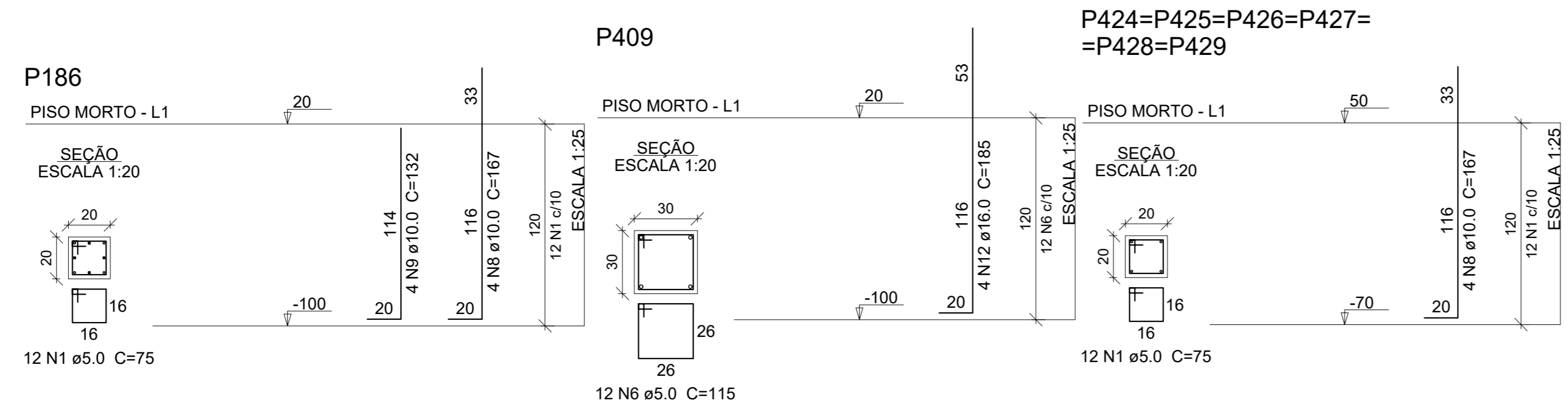
Relação do aço

ACO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	4928	75	369600
	2	5.0	24	105	2520
	3	5.0	60	85	5100
	4	5.0	16	115	1840
	5	5.0	56	31	1736
	6	5.0	24	115	2760
CA50	7	5.0	24	41	984
	8	10.0	1608	167	268536
	9	10.0	10	132	1320
	10	12.5	36	175	6300
	11	12.5	4	131	524
	12	16.0	156	185	28860

Resumo do aço

ACO	DIAM (mm)	C.TOTAL (m)	PESO (kg)
CA50	10.0	2698.6	1663.8
	12.5	68.3	65.7
	16.0	288.6	455.5
CA60	5.0	3845.4	592.7
PESO TOTAL (kg)			
CA50		2185	
CA60		592.7	

Volume de concreto (C-30) = 17.06 m³  
 Área de forma = 339.43 m²



Revisões da prancha

Nº	Descrição	Por	Data
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Nº	Comentário		Data

**ESTADO DO CEARÁ**  
**PREFEITURA MUNICIPAL DE QUIXADÁ**

CONCRETO: Fc = 30 MPa

OBRA: PREFEITURA MUNICIPAL DE QUIXADÁ - CE

TÍTULO: PRÉDIO PARA USO HOSPITALAR

Moldados in loco

7

TOTAL 26

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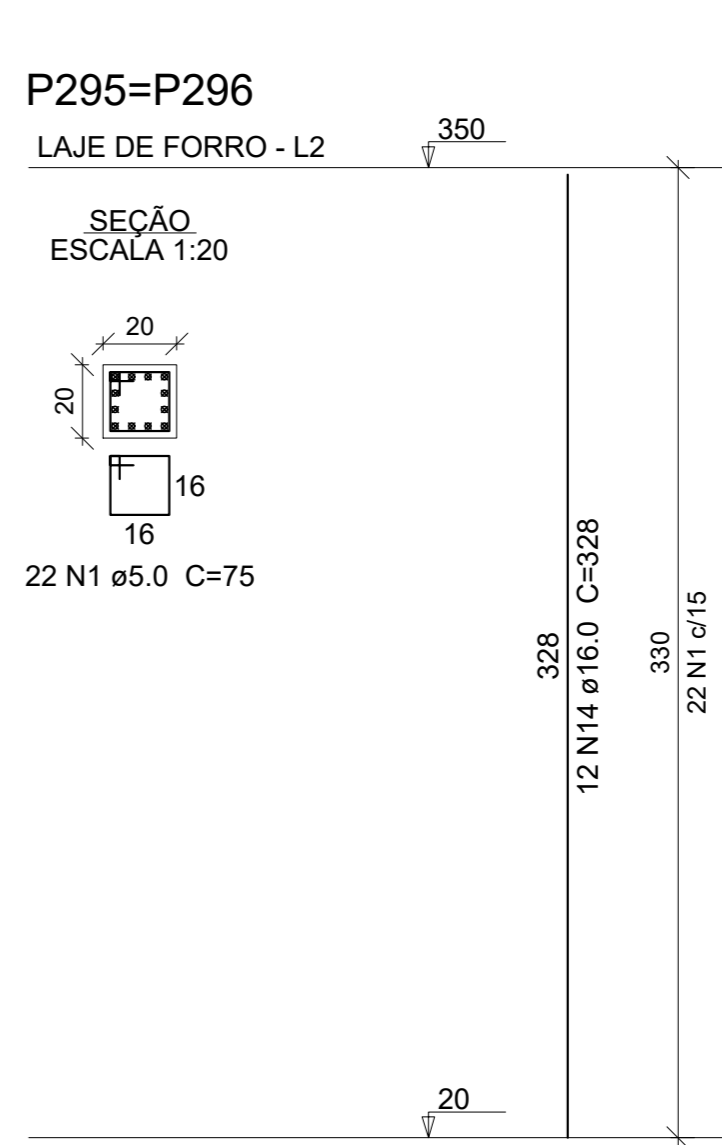
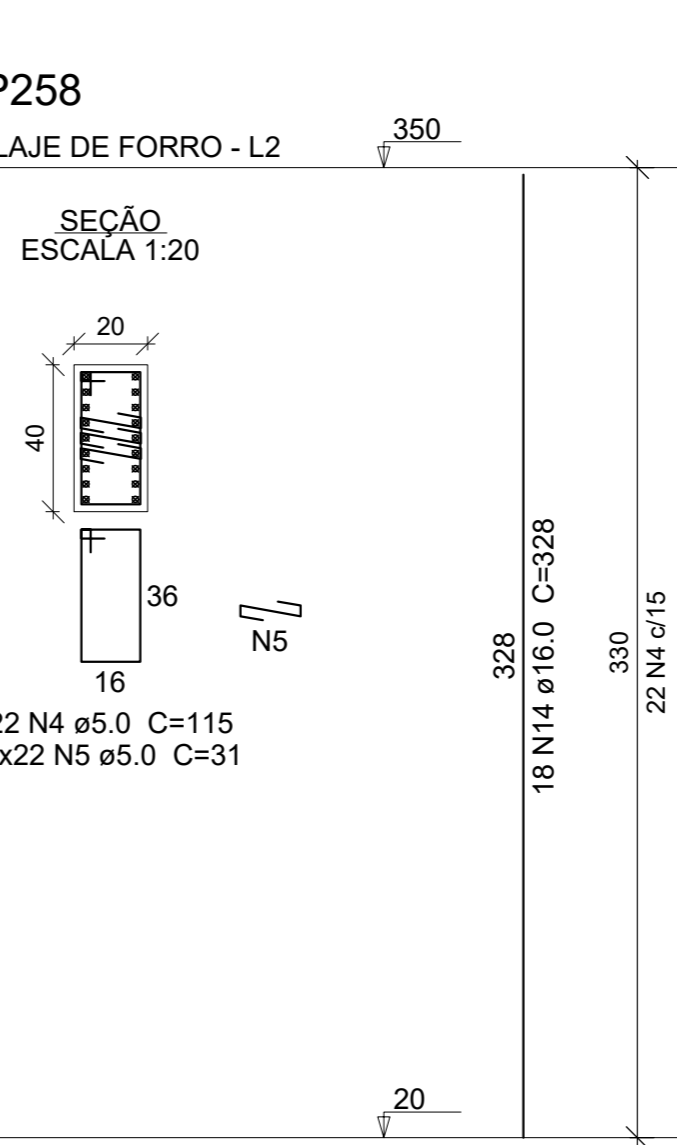
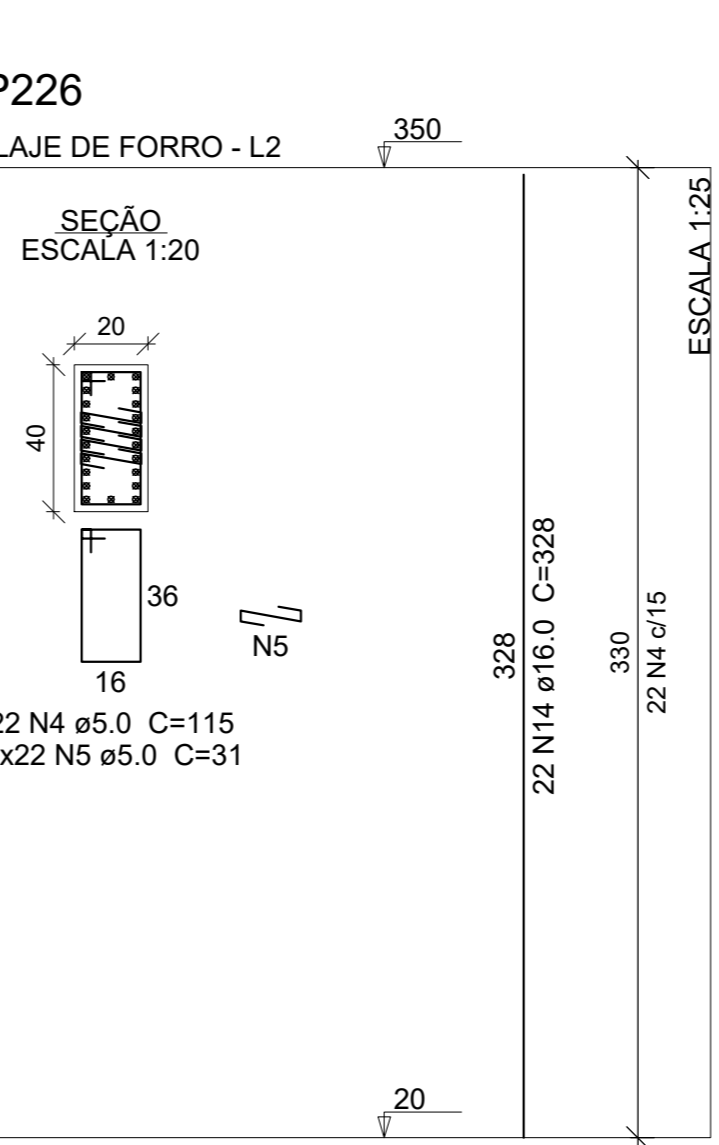
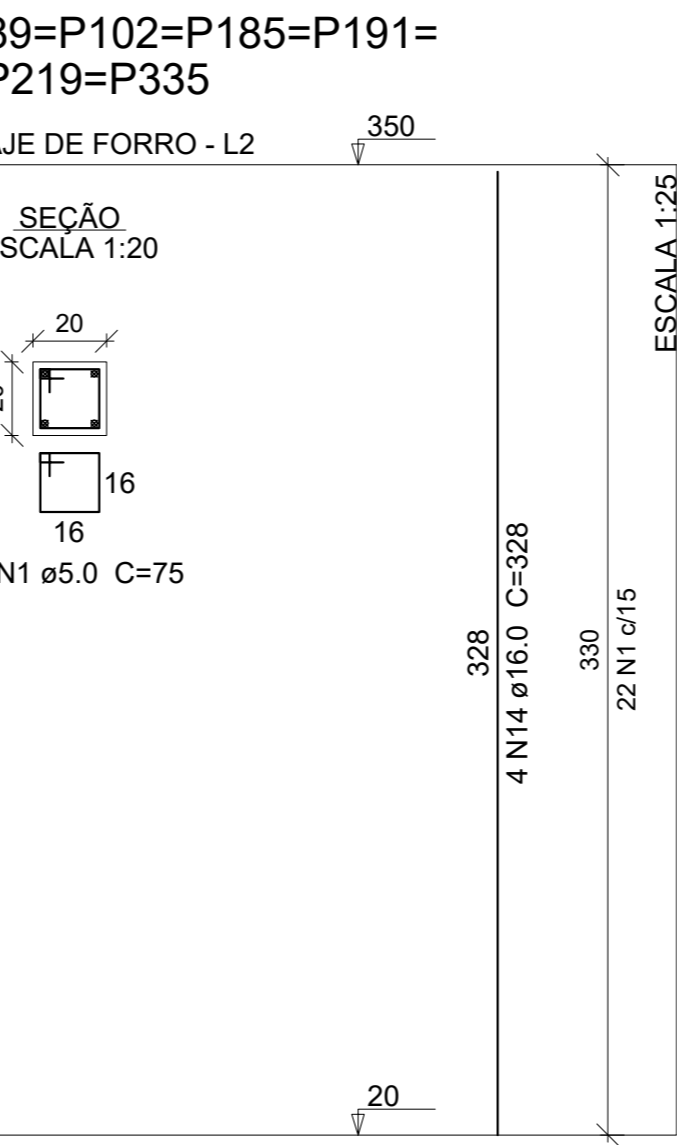
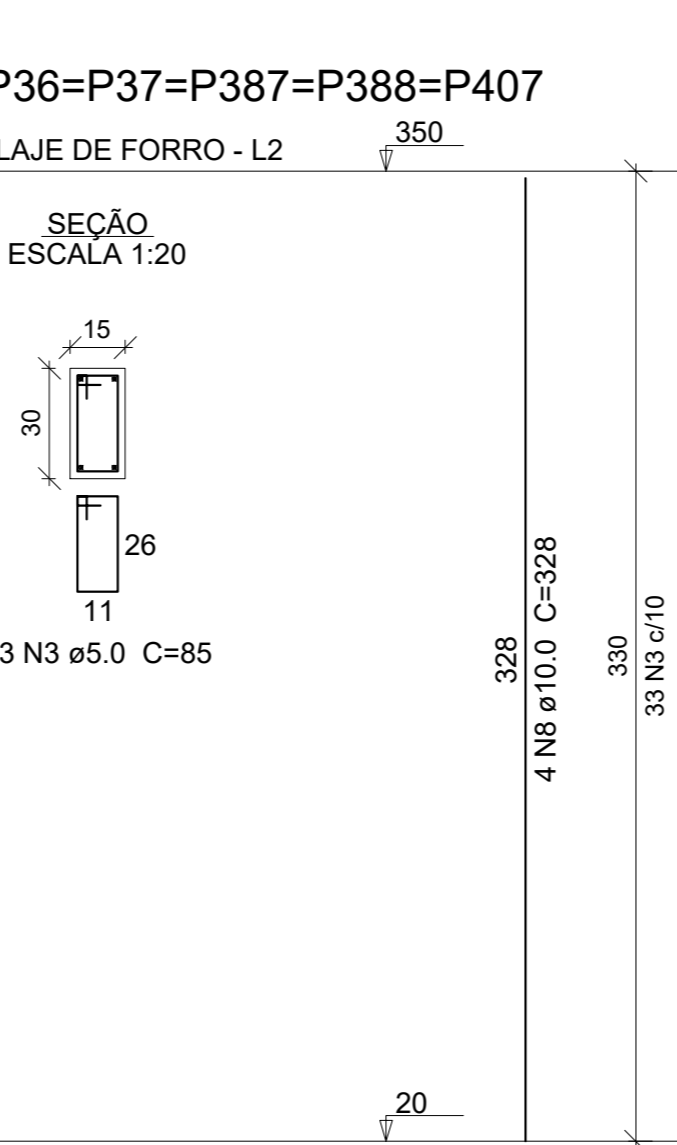
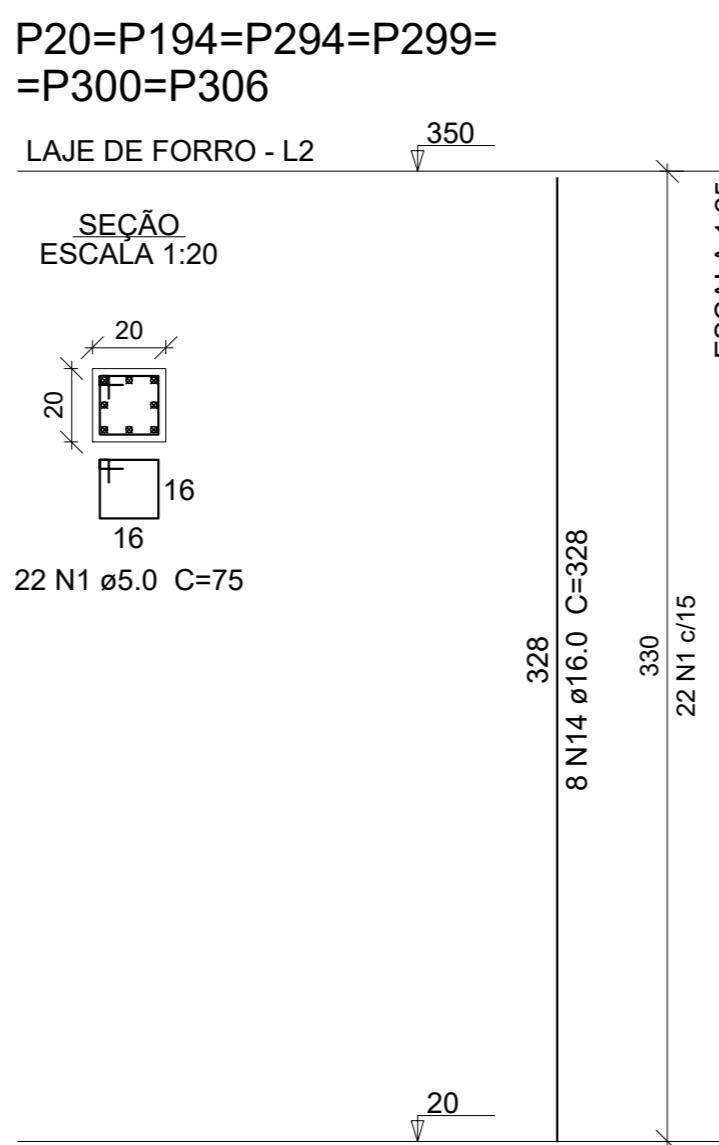
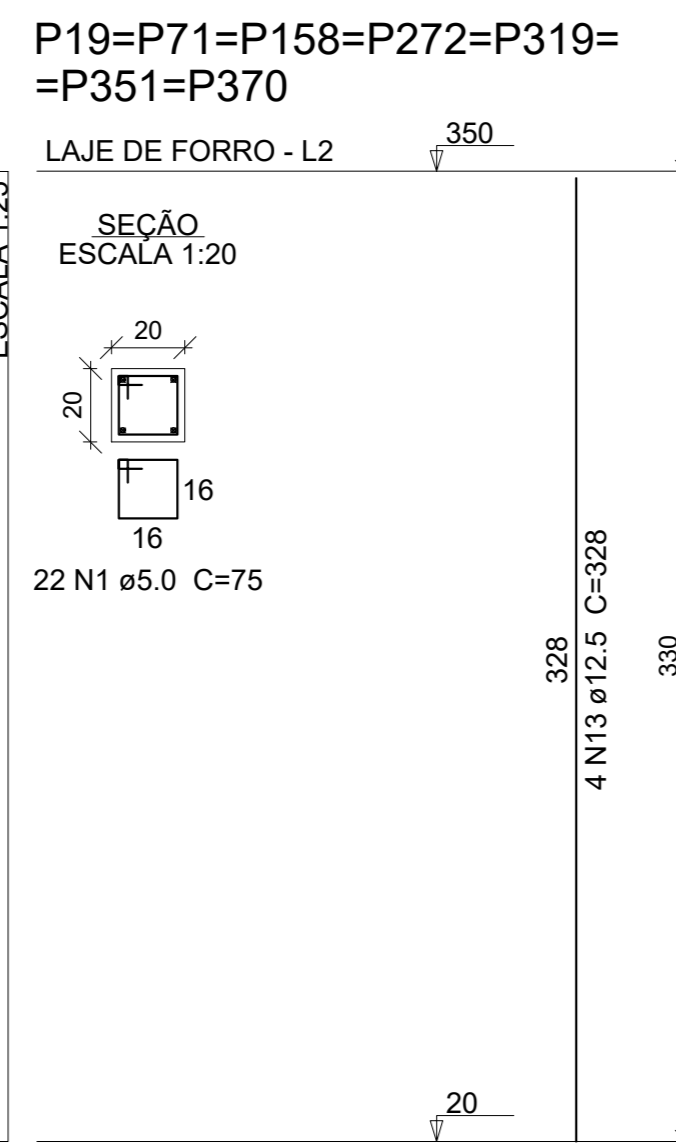
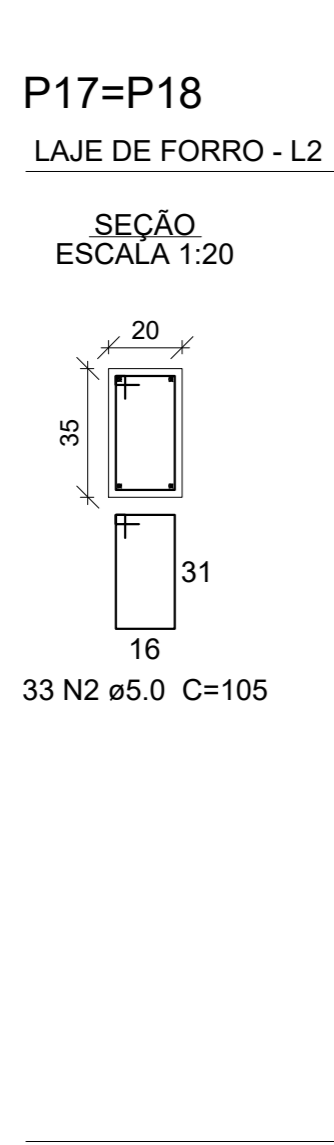
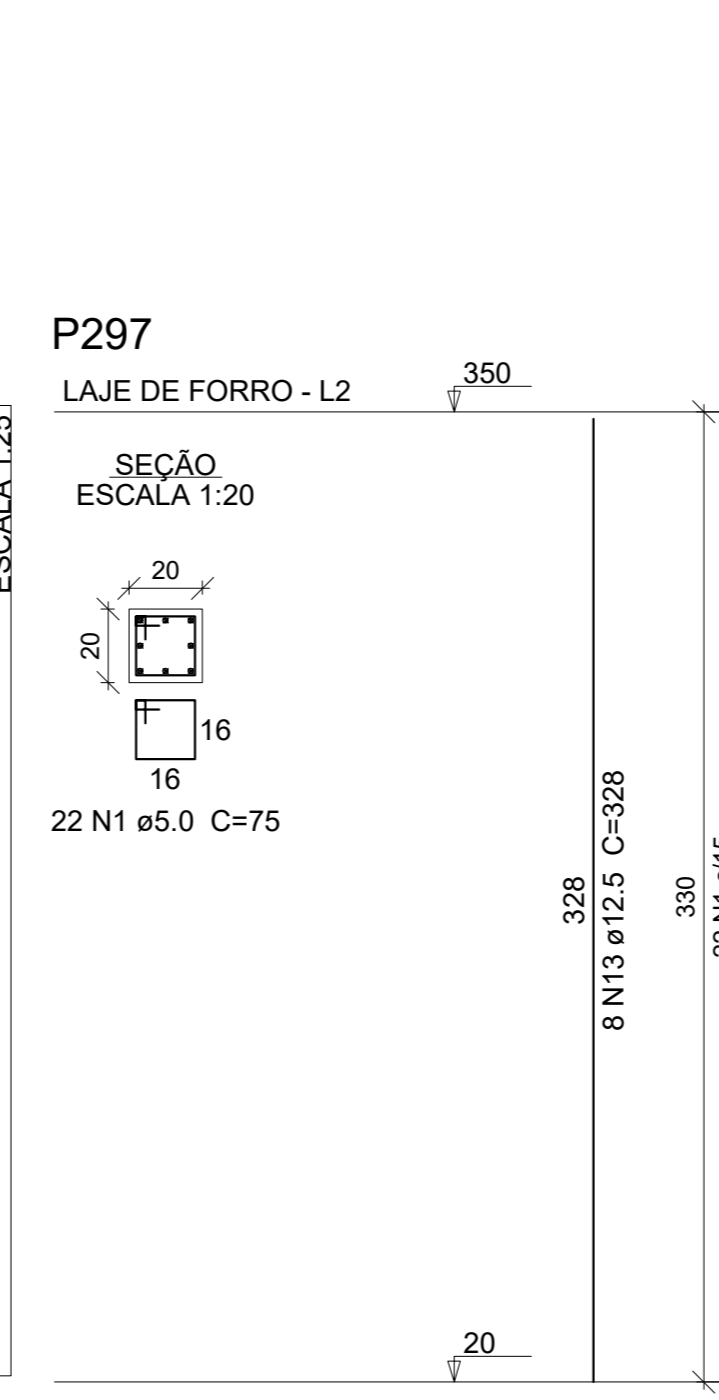
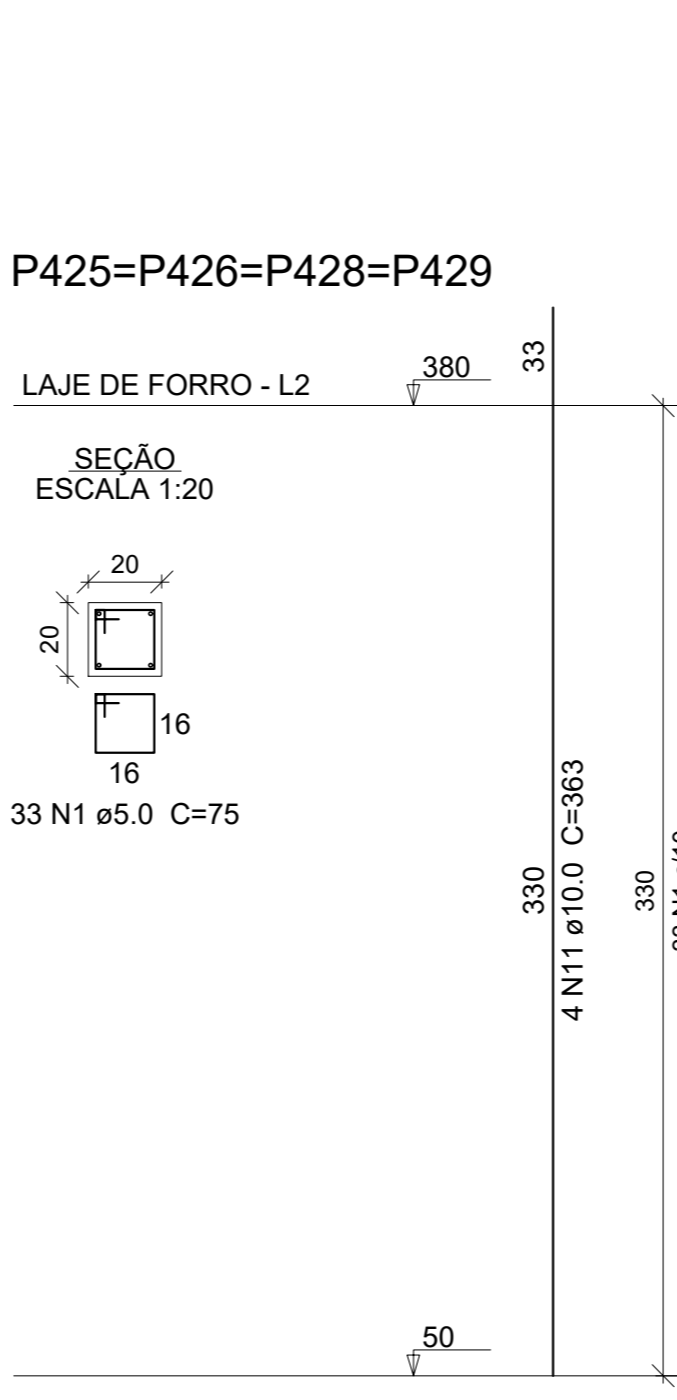
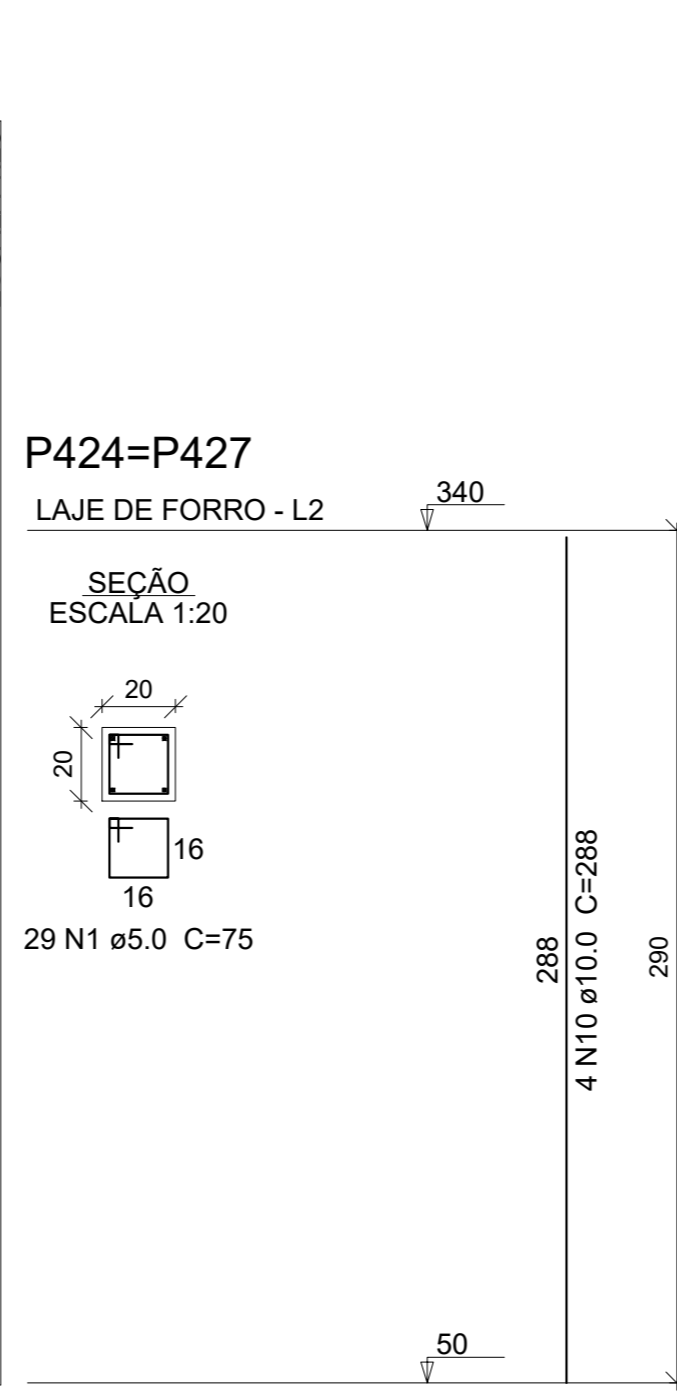
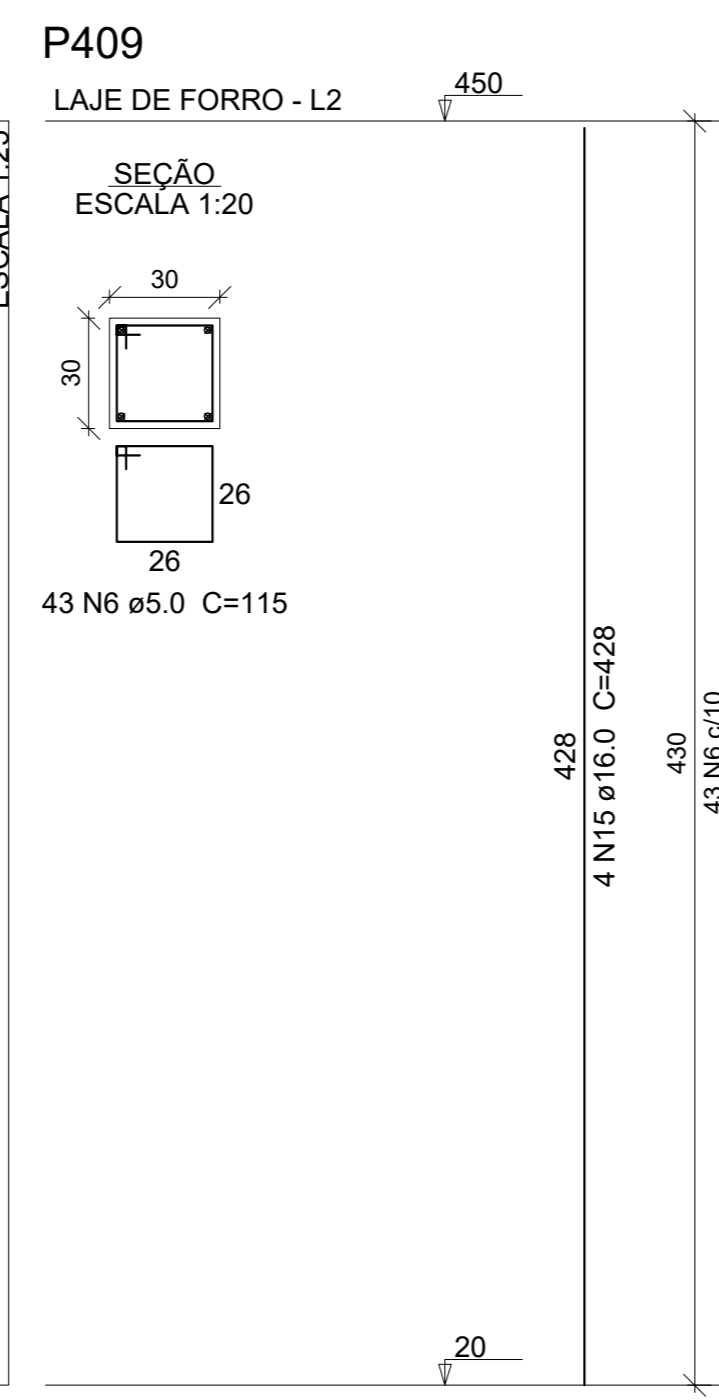
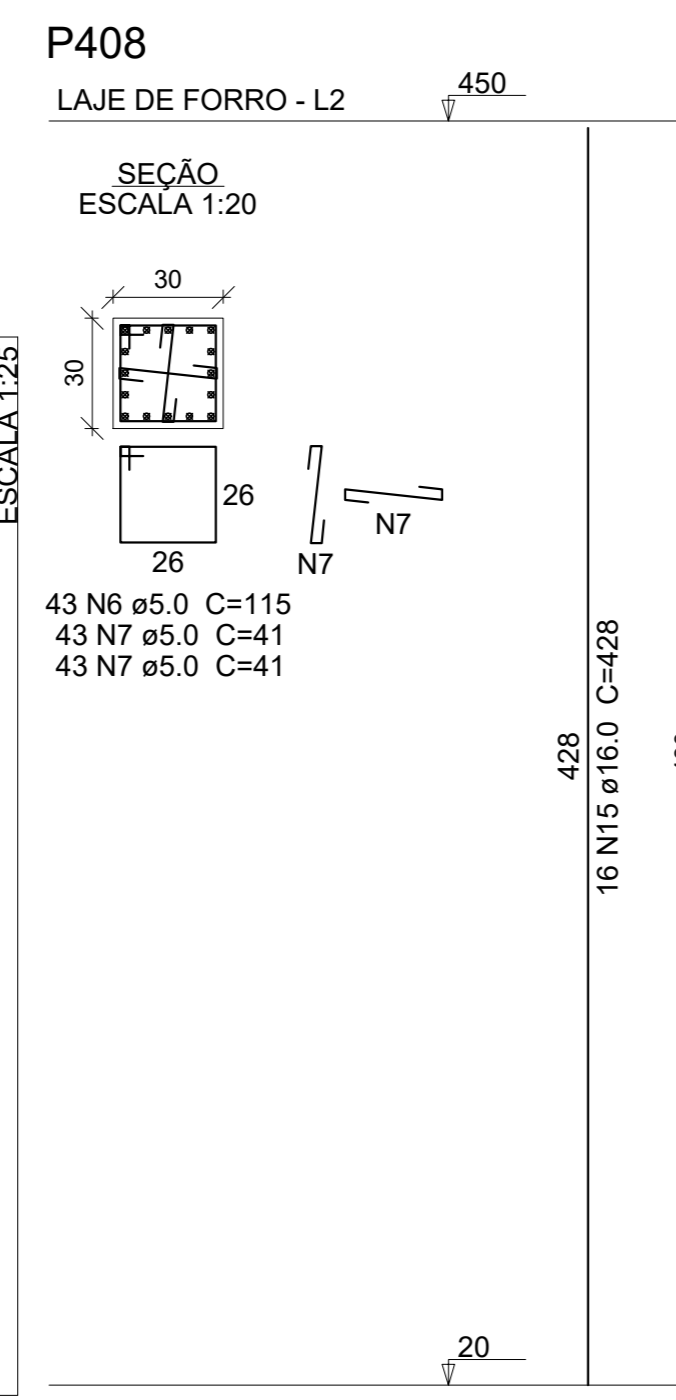
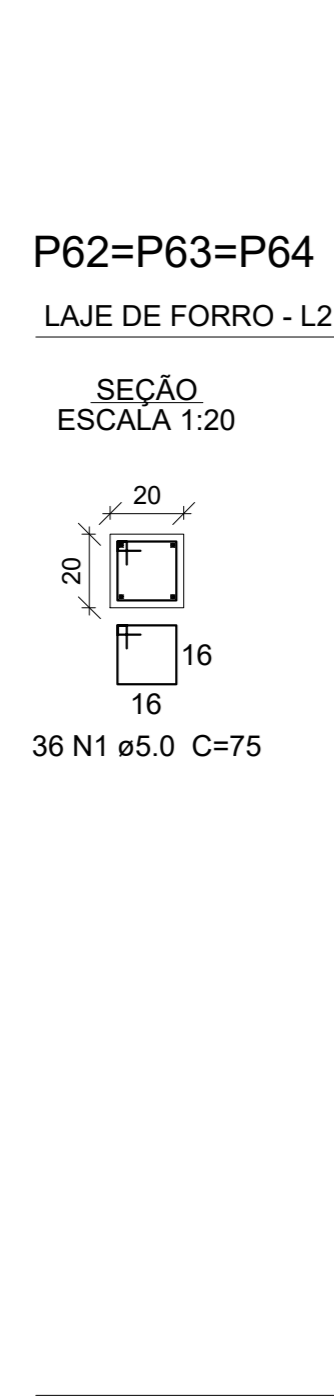
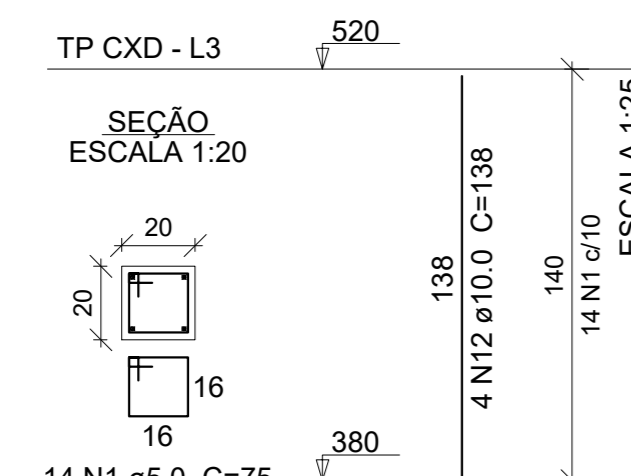
DATA: 01/03/2024 ESCALA: 1:50

*Jose Kluare Filho*  
 José Kluare Filho  
 Eng. Civil - CREA 01/158407-7



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Relação do aço

LAJE DE FORRO:	386xP1	2xP17
	7xP19	6xP20
	5xP36	3xP62
	6xP89	P226
	P258	2xP295
	P297	P408
	P409	2xP424
TP CXD:	4xP425	4xP425

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	13576	75	1018200
	2	5.0	66	105	6930
	3	5.0	165	85	14025
	4	5.0	44	115	5090
	5	5.0	154	31	4774
	6	5.0	86	115	9890
CA50	7	5.0	86	41	3526
	8	10.0	1572	328	515616
	9	10.0	12	358	4296
	10	10.0	8	288	2304
	11	10.0	16	363	5808
	12	10.0	16	138	2208
	13	12.5	36	328	11808
	15	16.0	20	428	8560

Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO (kg)
CA50	10.0	5302.4	3269.1
	12.5	118.1	113.8
	16.0	531.7	839.2
CA60	5.0	10624.1	1637.5
PESO TOTAL (kg)			
CA50		4222	
CA60		1637.5	

Volume de concreto (C-30) = 57.78 m³  
 Área de forma = 1145.79 m²

*Jose Augusto Pereira Soares*  
 Eng. Civil - CRÉD. 159407-7

Revisões da prancha			
X	XXXX	XXXXX	XXXXXXX
X	XXXX	XXXXX	XXXXXXX
X	XXXX	XXXXX	XXXXXXX
0	Emissão Inicial	<<	>>
N°	Comentário	Autor	Data

**ESTADO DO CEARÁ**  
**PREFEITURA MUNICIPAL DE QUIXADÁ**

CONCRETO	Fôr = 30 MPa	PROJEÇÃO	1
CLIENTE	PREFEITURA MUNICIPAL DE QUIXADÁ - CE		
OBRA	PRÉDIO PARA USO HOSPITALAR		
TÍTULO	Moldados in loco		

PRONOME Nº

8

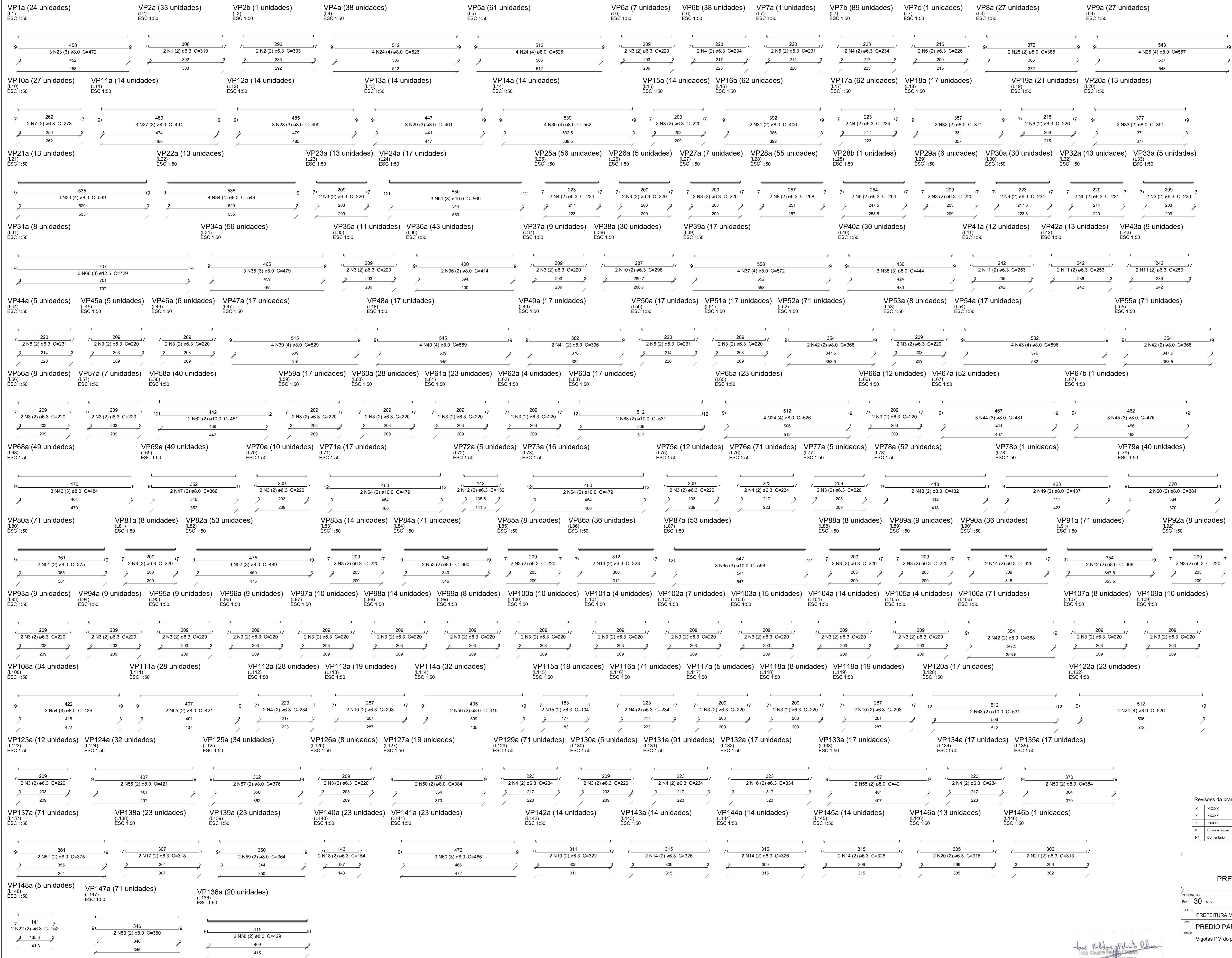
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REV. Nº 1

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**Relação do aço**

ACO	N	DIAM (mm)	QUANT	C.LIMIT (cm)	C.TOTAL (cm)
CA50	1	6.3	66	319	2154
	2	6.3	2	303	606
	3	6.3	844	220	20780
	4	6.3	1248	234	29232
	5	6.3	132	231	30492
	6	6.3	44	226	9944
	7	6.3	54	273	14742
	8	6.3	110	268	29480
	9	6.3	2	264	528
	10	6.3	136	268	40256
	11	6.3	68	253	17204
	12	6.3	10	152	1520
	13	6.3	12	152	1520
	14	6.3	156	326	50556
	15	6.3	38	194	7372
	16	6.3	32	220	9016
	17	6.3	46	318	14628
	18	6.3	46	154	7084
	19	6.3	28	322	9016
	20	6.3	26	316	8216
	21	6.3	2	313	626
	22	6.3	10	152	1520
	23	6.3	80	472	33984
	24	8.0	580	526	305880
	25	8.0	54	386	20844
	26	8.0	108	607	65156
	27	8.0	42	494	20748
	28	8.0	42	499	20958
	29	8.0	42	461	19262
	30	8.0	56	552	30912
	31	8.0	124	406	50344
	32	8.0	34	371	12614
	33	8.0	26	391	10166
	34	8.0	104	549	57096
	35	8.0	166	479	80472
	36	8.0	86	414	35604
	37	8.0	68	572	38896
	38	8.0	90	444	39960
	39	8.0	68	509	35972
	40	8.0	68	509	35972
	41	8.0	34	396	13464
	42	8.0	68	368	25004
	43	8.0	68	596	40528
	44	8.0	156	481	75036
	45	8.0	3	476	1428
	46	8.0	147	484	71148
	47	8.0	98	366	35868
	48	8.0	104	452	44608
	49	8.0	2	437	874
	50	8.0	152	384	58368
	51	8.0	294	375	109500
	52	8.0	159	489	77751
	53	8.0	284	360	102240
	54	8.0	102	436	44472
	55	8.0	154	421	64634
	56	8.0	64	419	26816
	57	8.0	68	378	25568
	58	8.0	40	429	17160
	59	8.0	46	364	16744
	60	8.0	69	486	33534
	61	10.0	51	569	29019
	62	10.0	80	461	36880
	63	10.0	68	531	36108
	64	10.0	66	479	31614
	65	10.0	159	566	89994
	66	12.5	24	729	17496

**Resumo do aço**

ACO	DIAM (mm)	C.TOTAL (m)	PESO (kg)
CA50	6.3	7997.4	1957
	8.0	19774.7	7822.8
	10.0	2236.2	1378.7
	12.5	175	188.5
<b>PESO TOTAL (kg)</b>			<b>11347.0</b>
CA50	1357		

**Revisões da prancha**

Nº	Descrição	Elaborado	Autor	Data
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X	XXXXX	XXXXX	XXXXX	XXXXXX
0	Emissão Inicial			

**ESTADO DO CEARÁ**  
**PREFEITURA MUNICIPAL DE QUIXADÁ**

CONCRETO: Fc = 30 MPa

PROJETO: PREFEITURA MUNICIPAL DE QUIXADÁ - CE

OBRA: PRÉDIO PARA USO HOSPITALAR

TÍTULO: Vigotas PM do pavimento LAJE DE FORRO

11

00

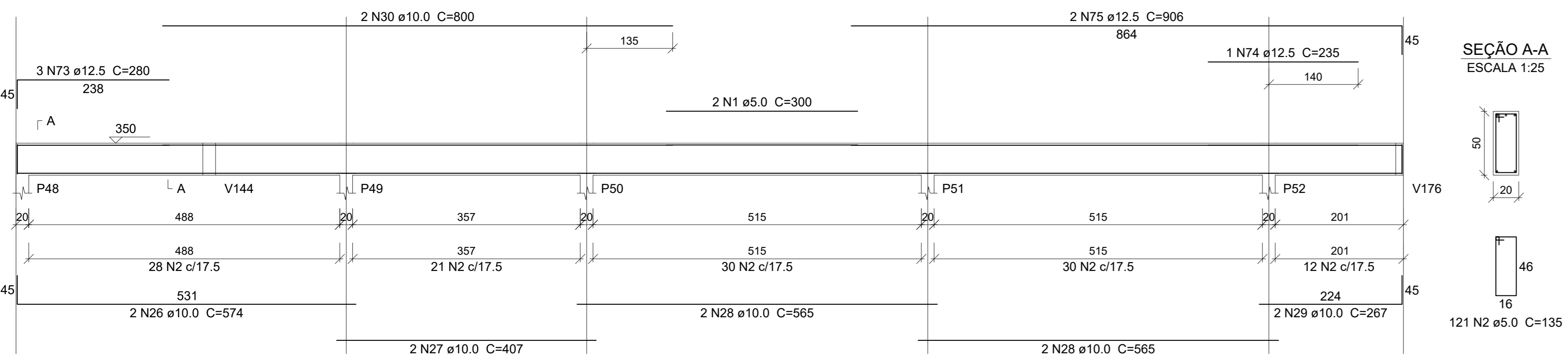
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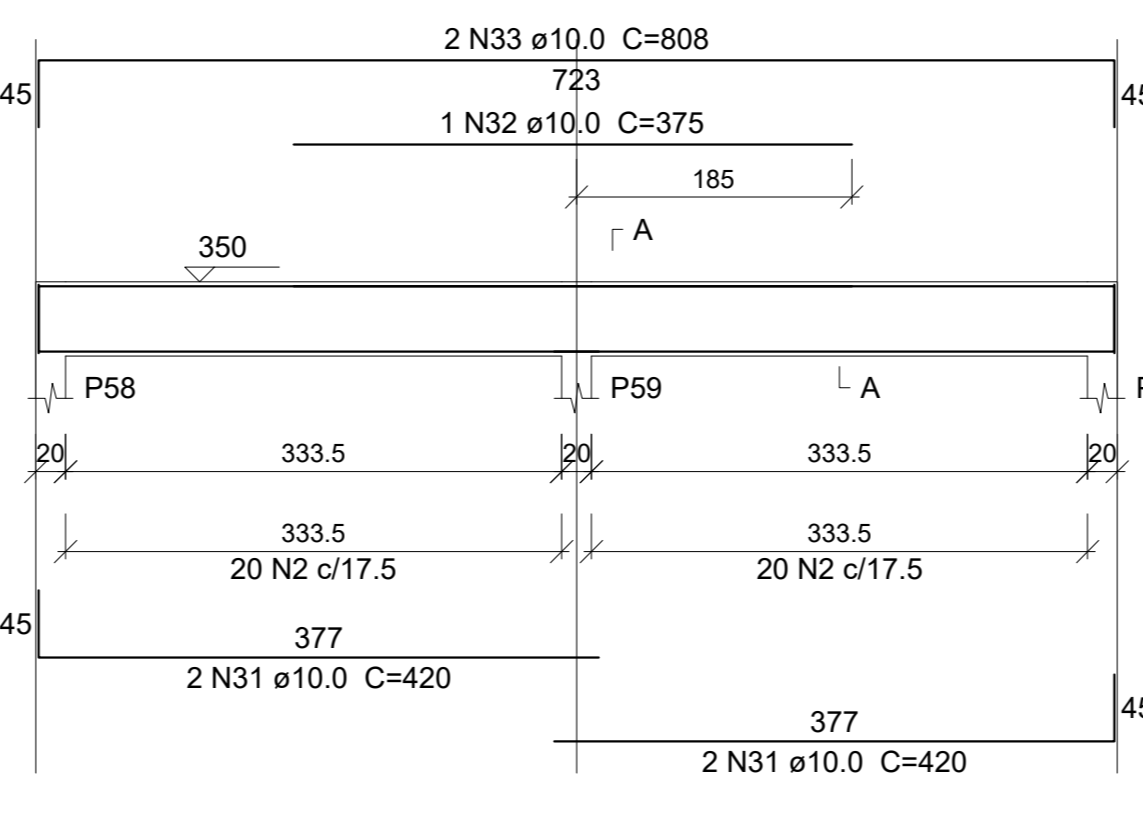




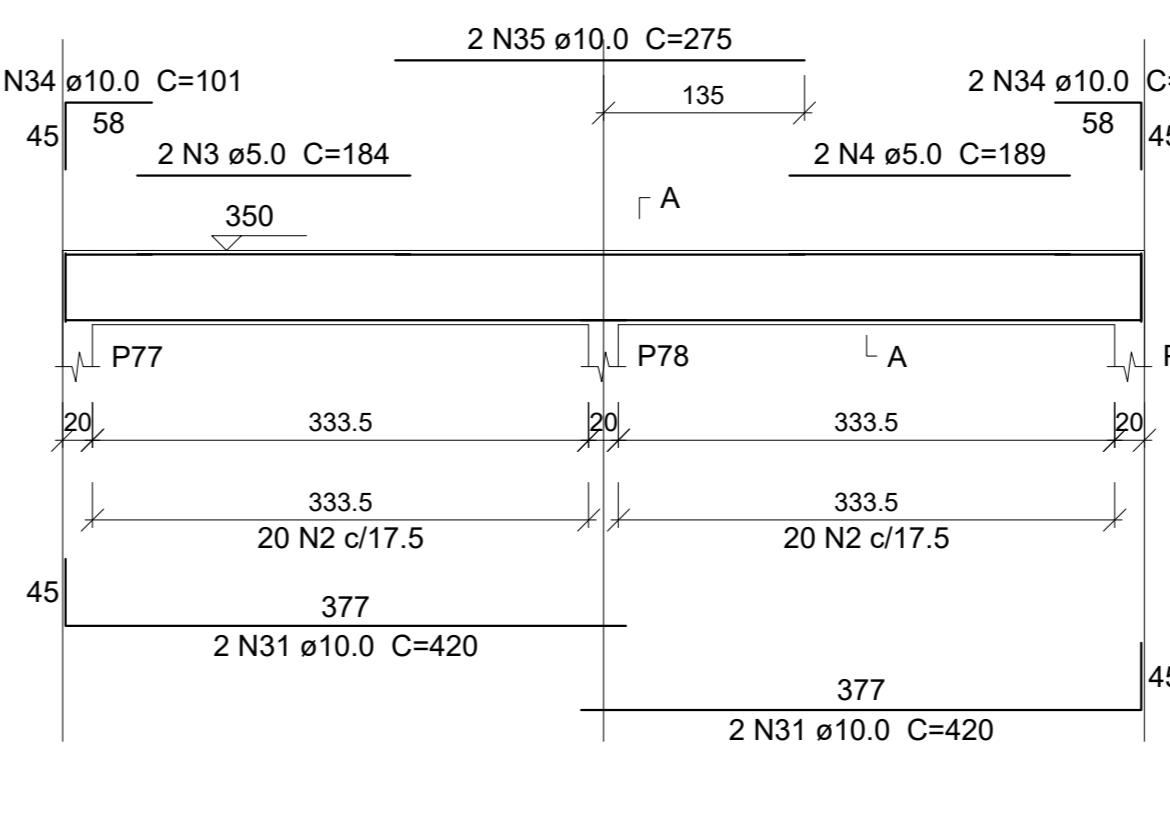
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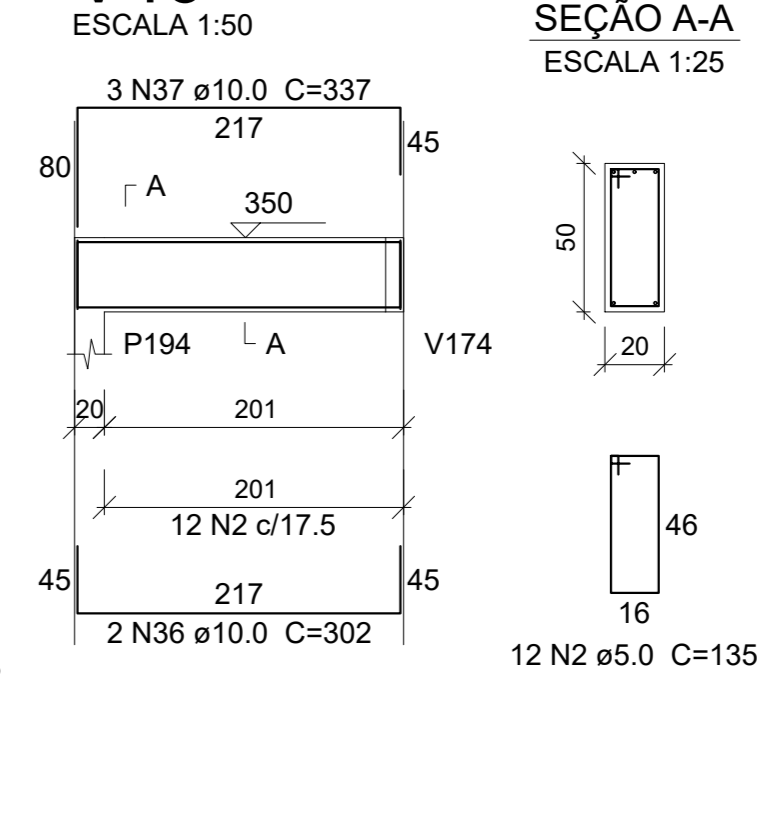
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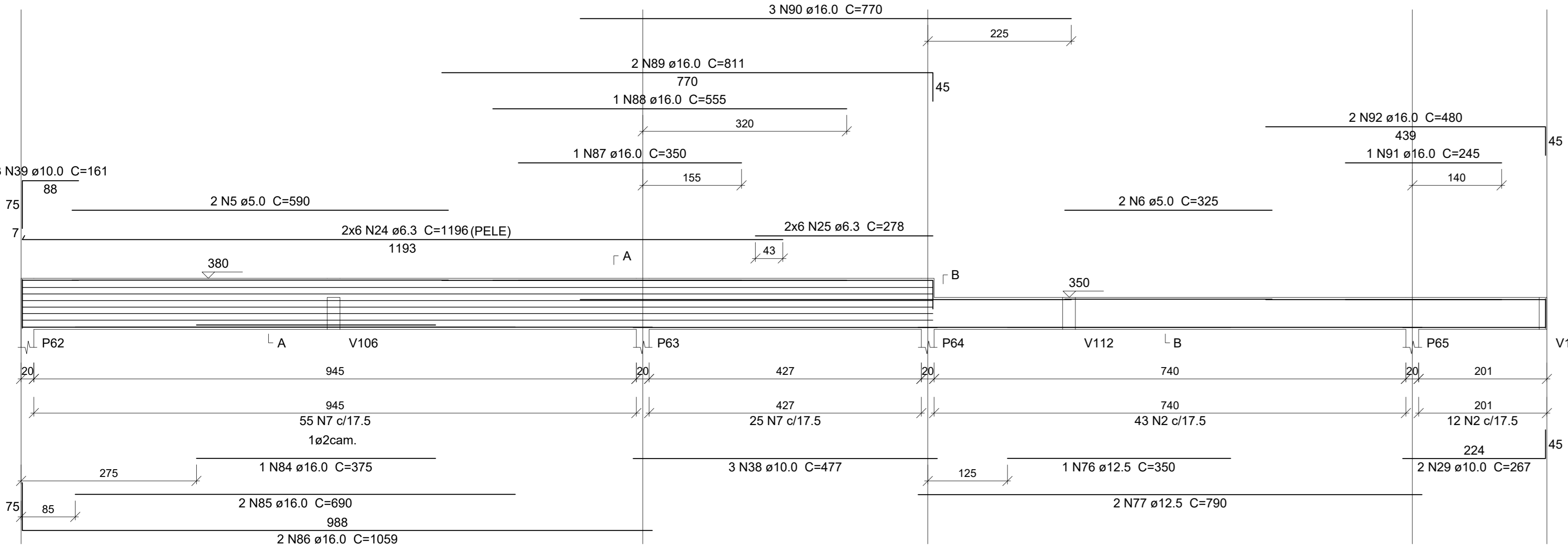
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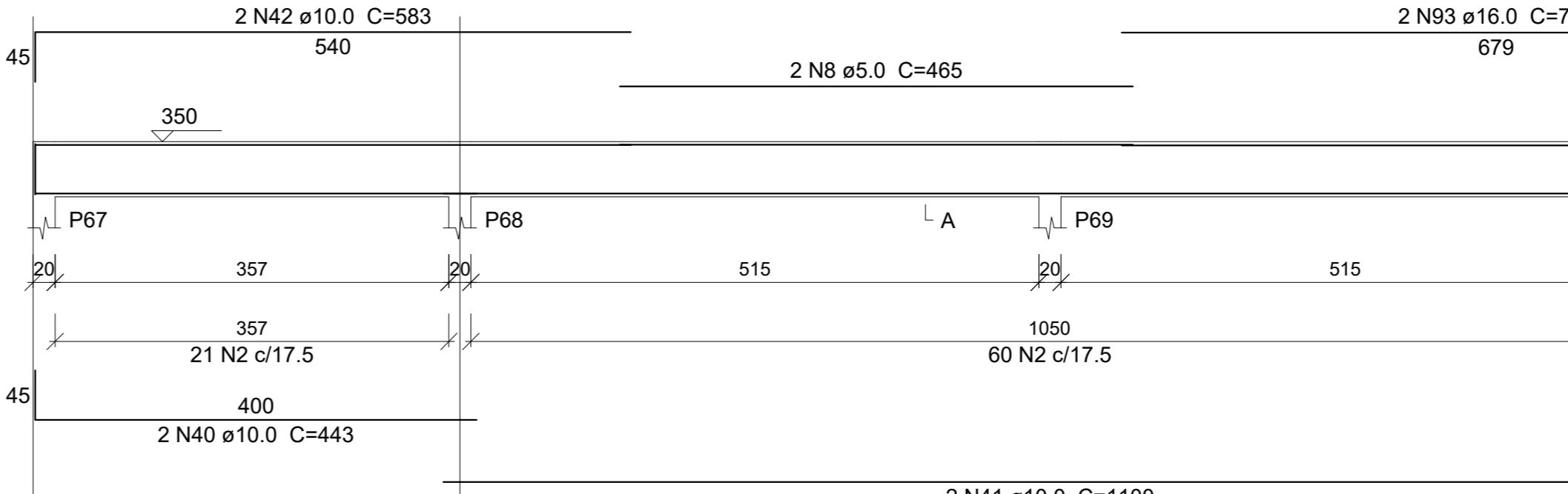
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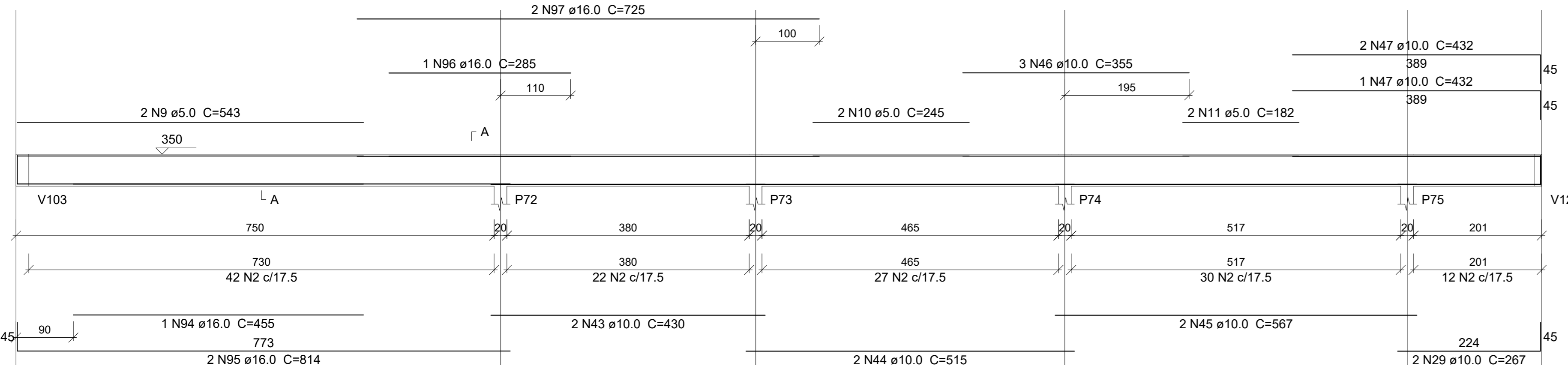
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ESCALA 1:50



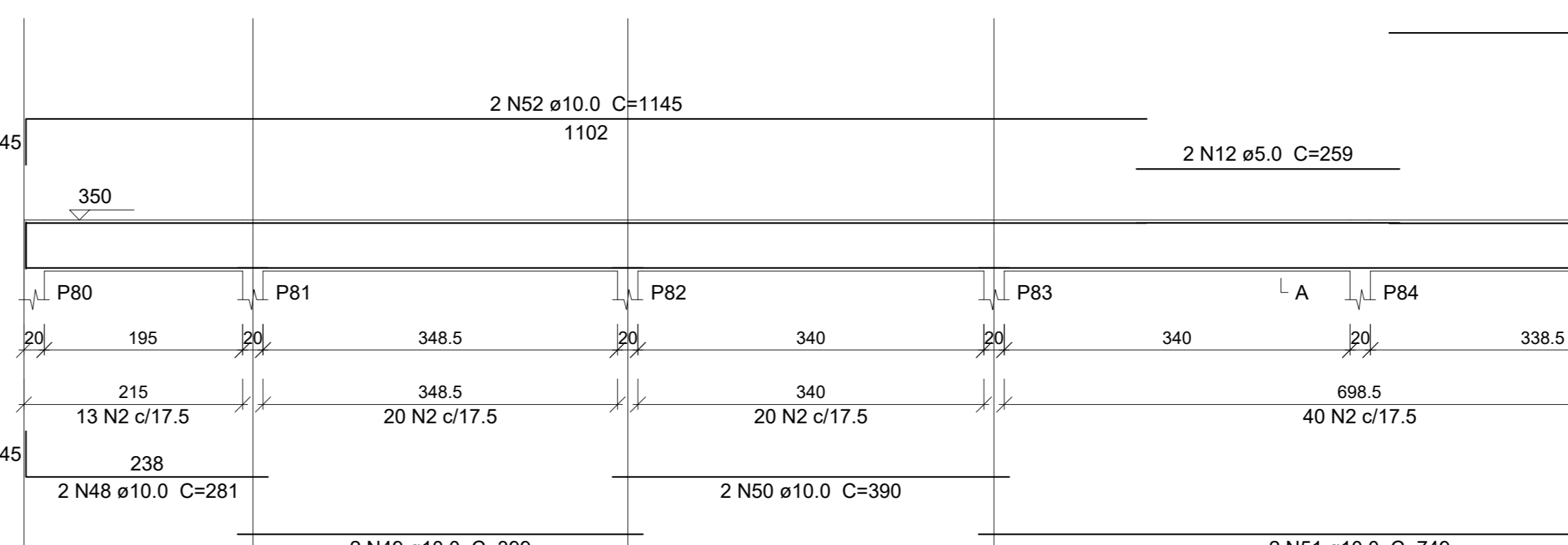
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ESCALA 1:50



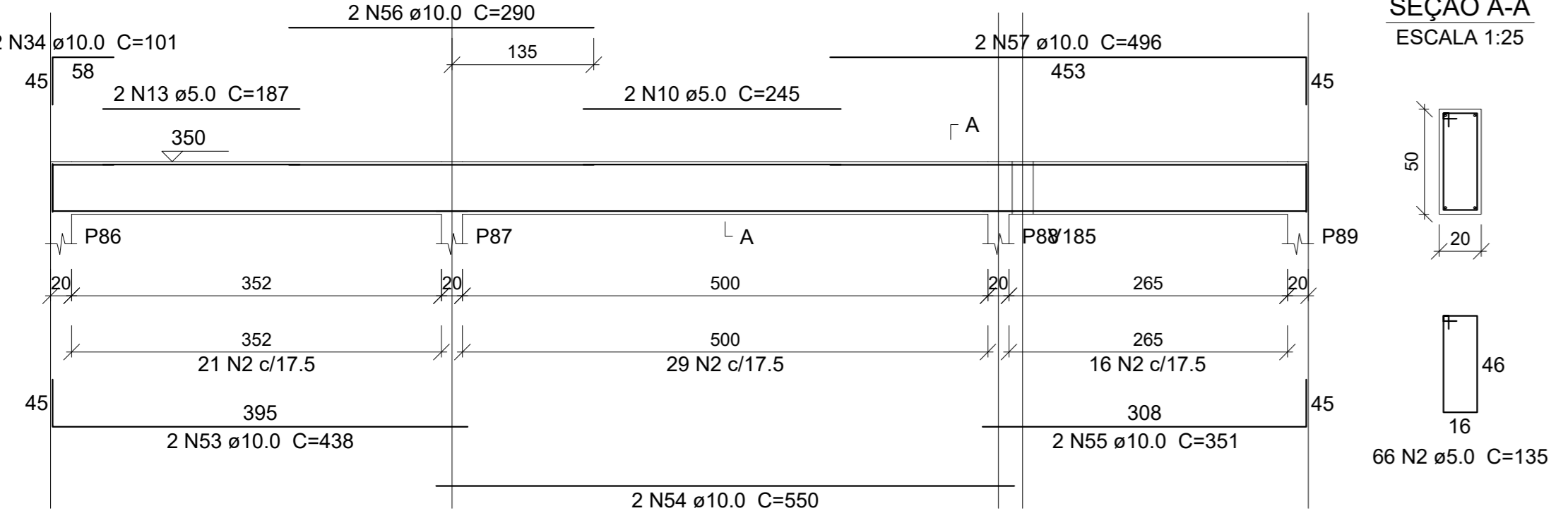
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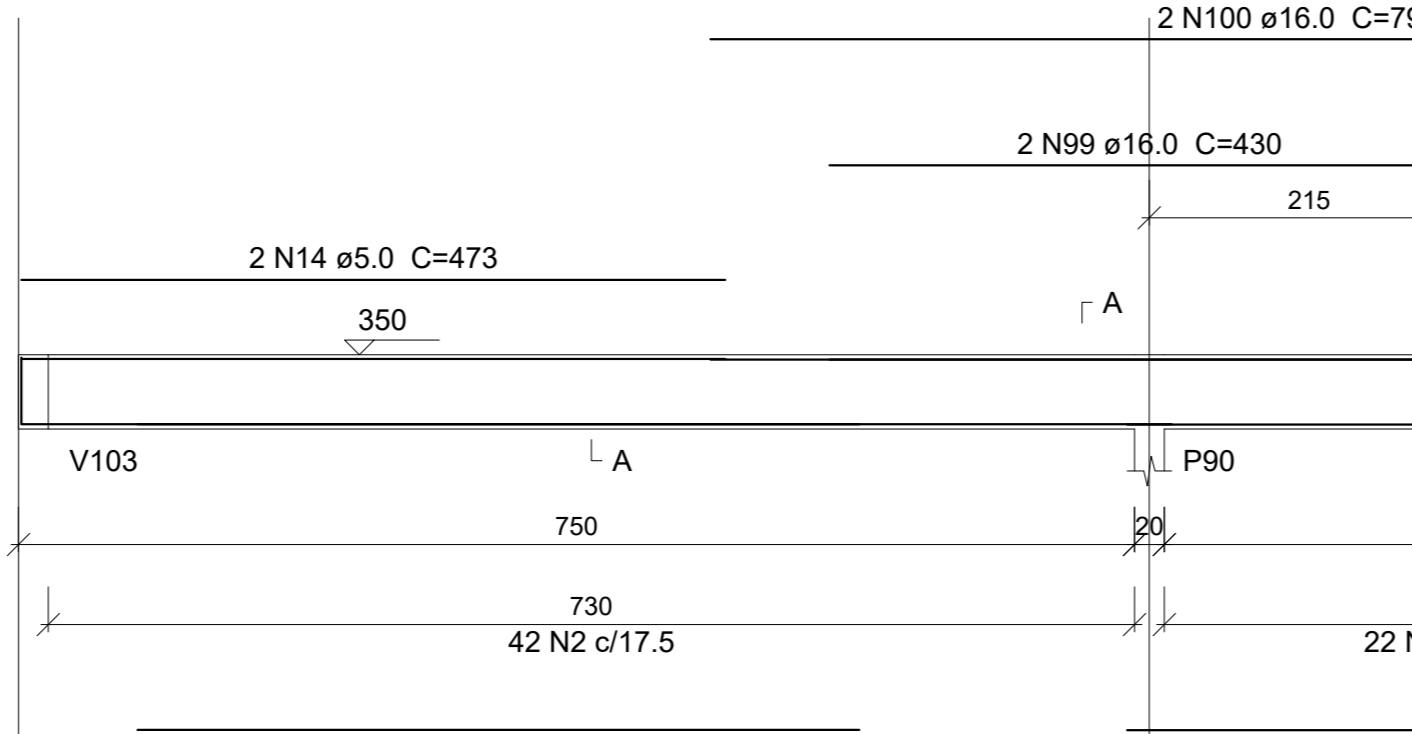
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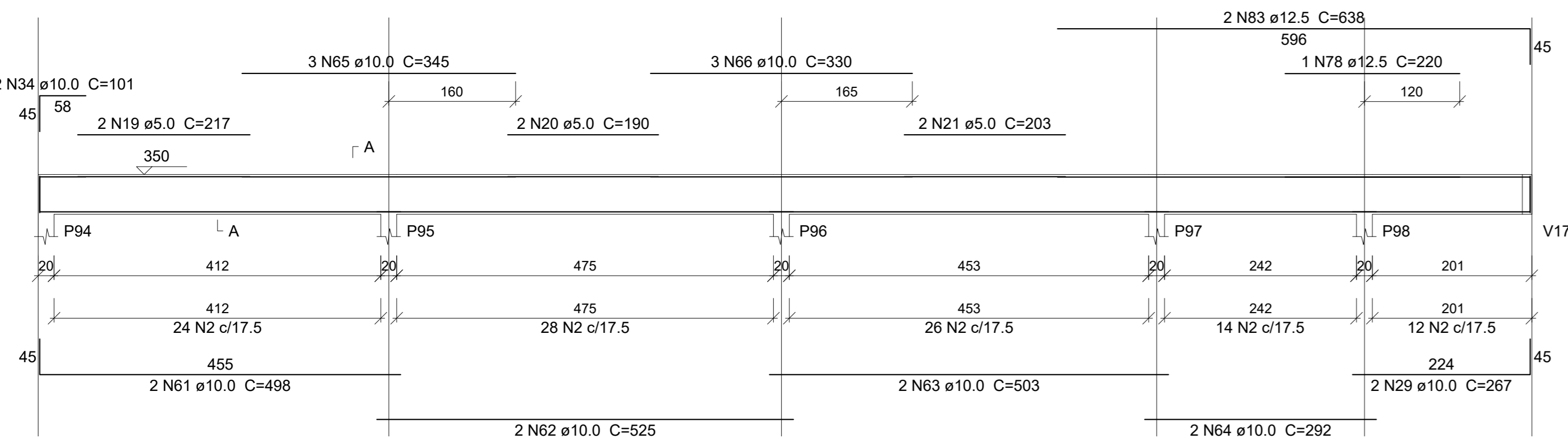
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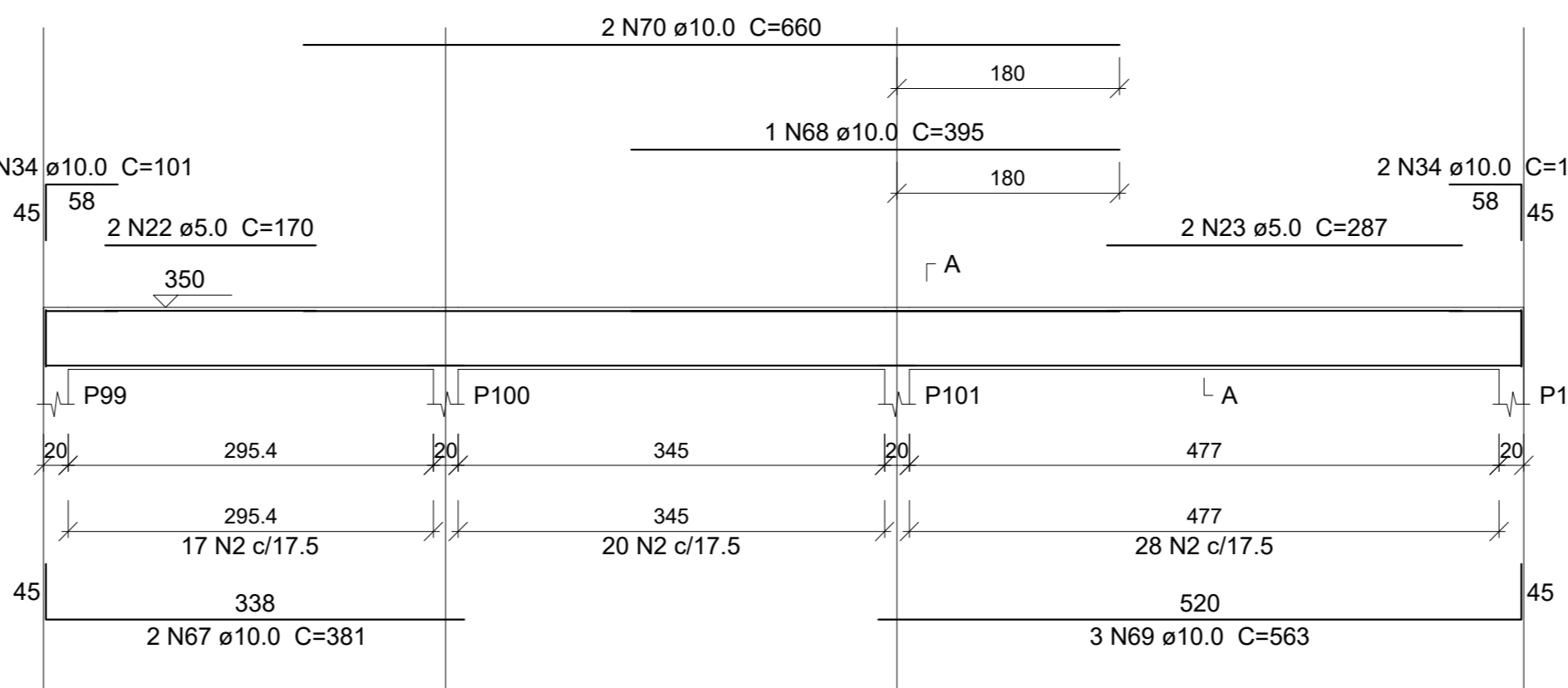
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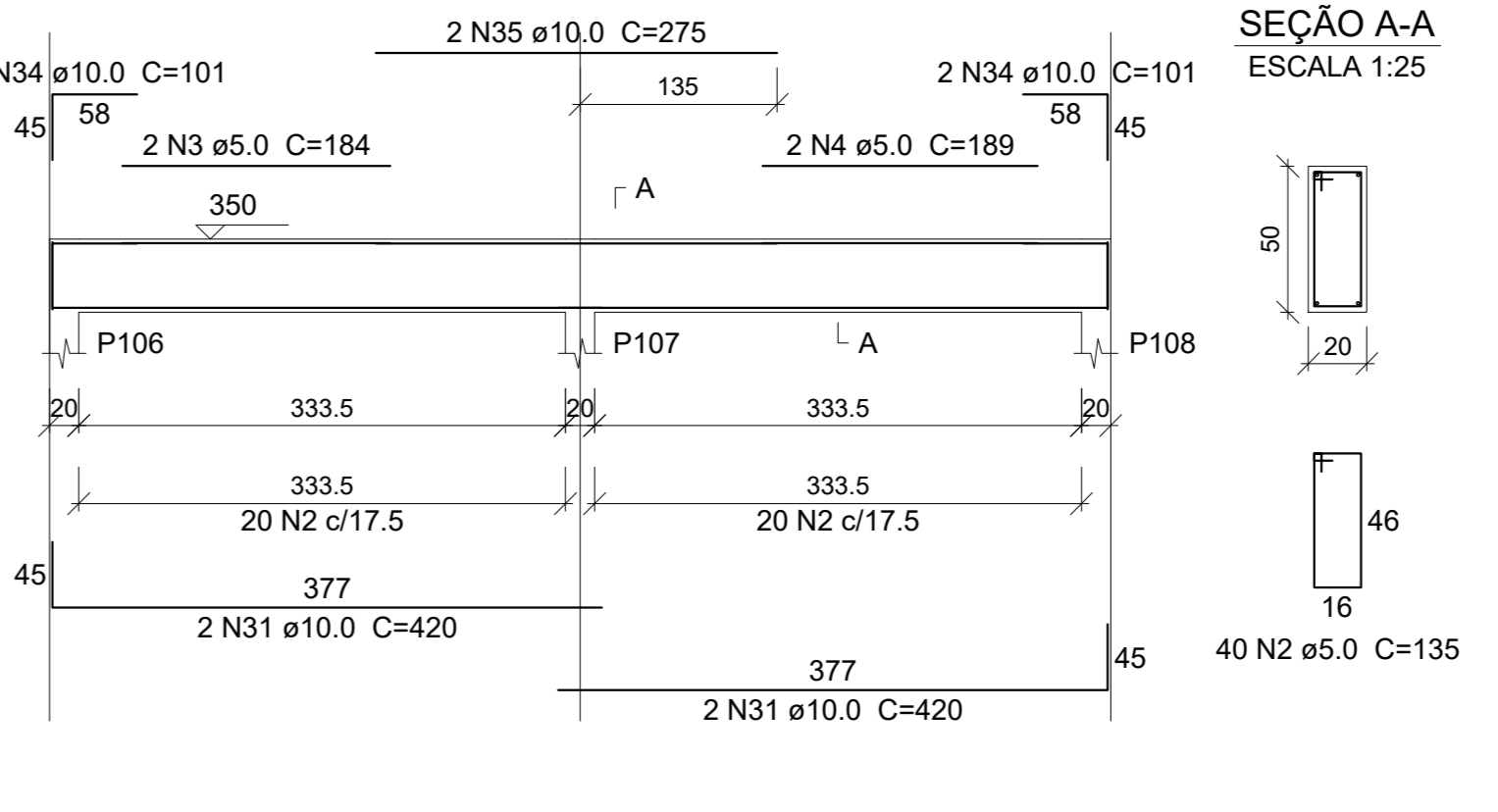
**V24**  
ESCALA 1:50



**V25**  
ESCALA 1:50



**V26**  
ESCALA 1:50



**Relação do aço**

ACO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	2	300	600
CA60	2	5.0	1015	135	137025
CA60	3	5.0	4	184	736
CA60	4	5.0	4	189	756
CA60	5	5.0	2	590	1180
CA60	6	5.0	2	325	650
CA60	7	5.0	80	195	15600
CA60	8	5.0	2	465	930
CA60	9	5.0	4	543	2172
CA60	10	5.0	4	245	980
CA60	11	5.0	2	182	364
CA60	12	5.0	2	299	598
CA60	13	5.0	2	187	374
CA60	14	5.0	2	473	946
CA60	15	5.0	2	195	390
CA60	16	5.0	2	192	384
CA60	17	5.0	27	175	4725
CA60	18	5.0	7	115	805
CA60	19	5.0	2	217	434
CA60	20	5.0	2	190	380
CA60	21	5.0	2	203	406
CA60	22	5.0	2	170	340
CA60	23	5.0	2	287	574
CA60	24	6.3	12	1196	14352
CA60	25	6.3	12	278	3336
CA60	26	10.0	2	574	1148
CA60	27	10.0	2	407	814
CA60	28	10.0	4	565	2260
CA60	29	10.0	14	267	3738
CA60	30	10.0	2	800	1600
CA60	31	10.0	12	420	5040
CA60	32	10.0	2	375	750
CA60	33	10.0	2	808	1616
CA60	34	10.0	16	101	1616
CA60	35	10.0	3	275	825
CA60	36	10.0	2	302	604
CA60	37	10.0	3	337	1011
CA60	38	10.0	3	477	1431
CA60	39	10.0	2	161	322
CA60	40	10.0	2	443	886
CA60	41	10.0	2	1100	2200
CA60	42	10.0	2	1166	2332
CA60	43	10.0	4	430	1720
CA60	44	10.0	4	515	2060
CA60	45	10.0	4	567	2268
CA60	46	10.0	3	355	1065
CA60	47	10.0	3	432	1296
CA60	48	10.0	2	281	562
CA60	49	10.0	2	399	798
CA60	50	10.0	2	390	780
CA60	51	10.0	2	749	1498
CA60	52	10.0	2	1145	2290
CA60	53	10.0	2	438	876
CA60	54	10.0	2	550	1100
CA60	55	10.0	2	351	702
CA60	56	10.0	2	290	580
CA60	57	10.0	2	496	992
CA60	58	10.0	2	280	560
CA60	59	10.0	2	208	416
CA60	60	10.0	2	238	476
CA60	61	10.0	2	498	996
CA60	62	10.0	2	1050	2100
CA60	63	10.0	2	503	1006
CA60	64	10.0	2	292	584
CA60	65	10.0	3	345	1035
CA60	66	10.0	3	330	990
CA60	67	10.0	2	381	762
CA60	68	10.0	3	395	1185
CA60	69	10.0	3	563	1689
CA60	70	10.0	2	660	1320
CA60	71	10.0	2	159	318
CA60	72	10.0	2	236	472
CA60	73	12.5	3	280	840
CA60	74	12.5	1	235	235
CA60	75	12.5	1	906	1812
CA60	76	12.5	1	350	350
CA60	77	12.5	2	790	1580
CA60	78	12.5	2	220	440
CA60	79	12.5	2	581	1162
CA60	80	12.5	3	410	1230
CA60	81	12.5	3	421	1263
CA60	82	12.5	3	301	903
CA60	83	12.5	2	638	1276
CA60	84	16.0	1	375	375
CA60	85	16.0	2	690	1380
CA60	86	16.0	2	1059	2118
CA60	87	16.0	1	350	350
CA60	88	16.0	1	555	555
CA60	89	16.0	2	811	1622
CA60	90	16.0	3	770	2310
CA60	91	16.0	1	245	245
CA60	92	16.0	2	480	960
CA60	93	16.0	2	720	1440
CA60	94	16.0	1	455	455
CA60	95	16.0	4	814	3256
CA60	96	16.0	1	285	285
CA60	97	16.0	2	725	1450
CA60	98	16.0	1	485	485
CA60	99	16.0	2	430	860
CA60	100	16.0	2	790	1580
CA60	101	16.0	4	335	1340

**Resumo do aço**

ACO	DIAM (mm)	C.TOTAL (m)	PESO (kg)
CA50	6.3	178.9	43.3
CA50	10.0	582.6	359.2
CA50	12.5	111	106.8
CA50	16.0	210.7	332.5
CA60	5.0	1701.9	262.3
<b>PESO TOTAL (kg)</b>			
CA50		841.8	
CA60		262.3	
Volume de concreto (C-30) = 20.06 m³			
Área de forma = 192.03 m²			

**Revisões da prancha**

Nº	Descrição	Por	Data
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Nº	Comentário	Autor	Data

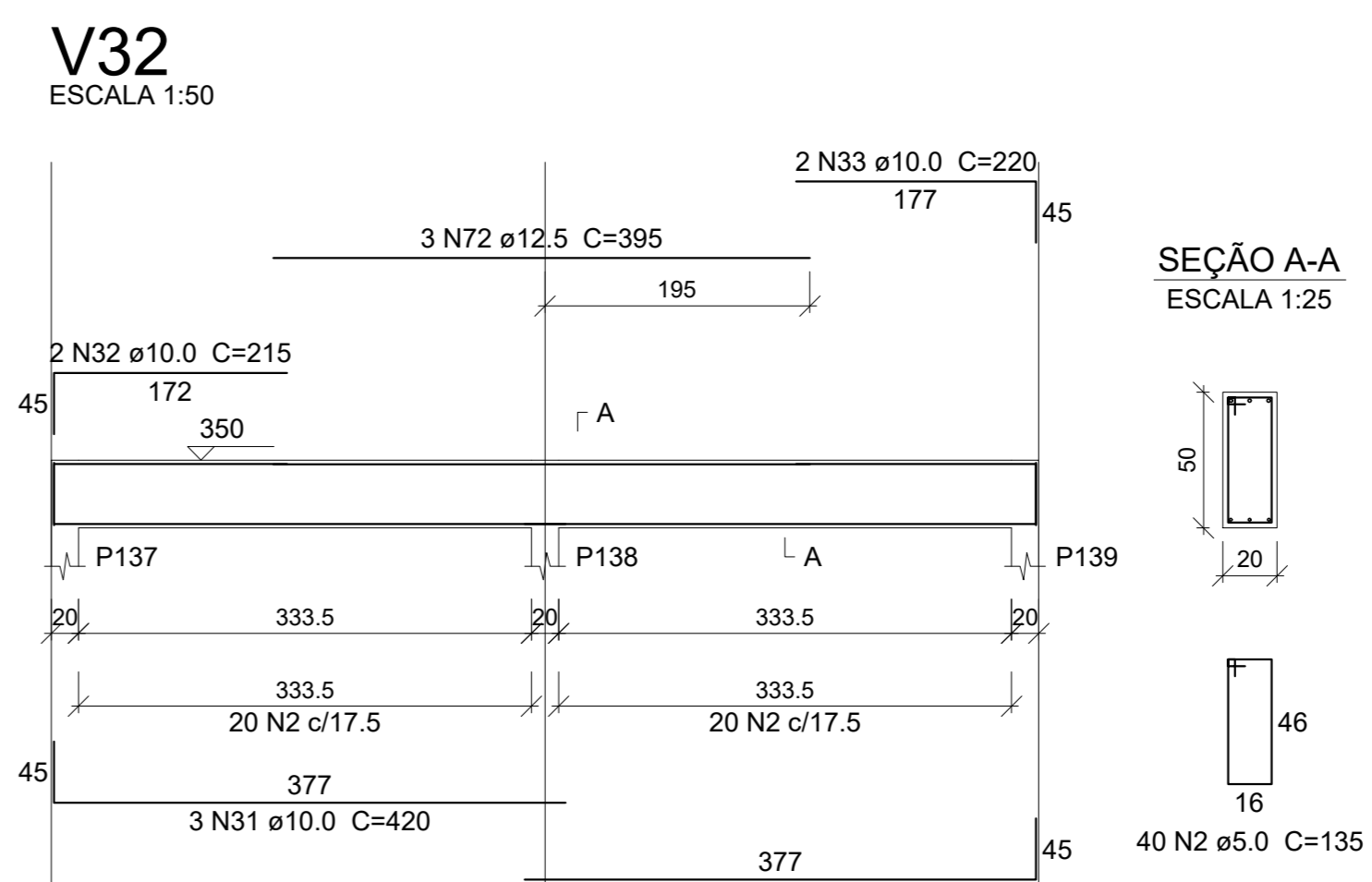
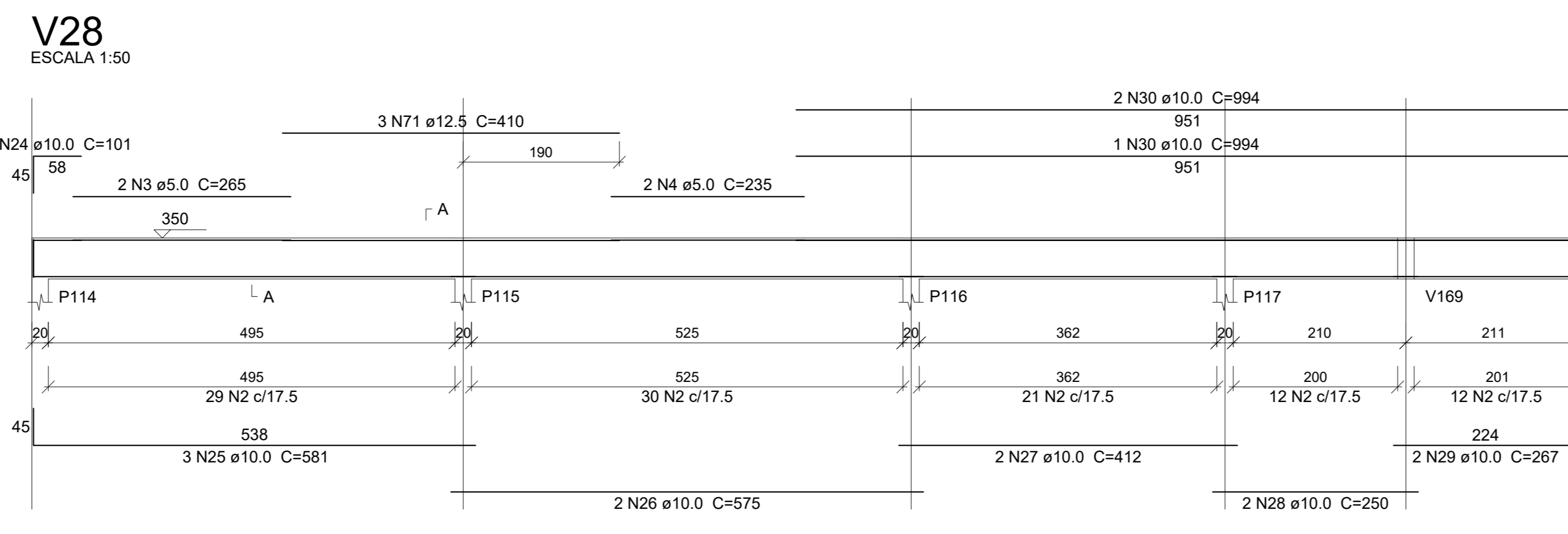
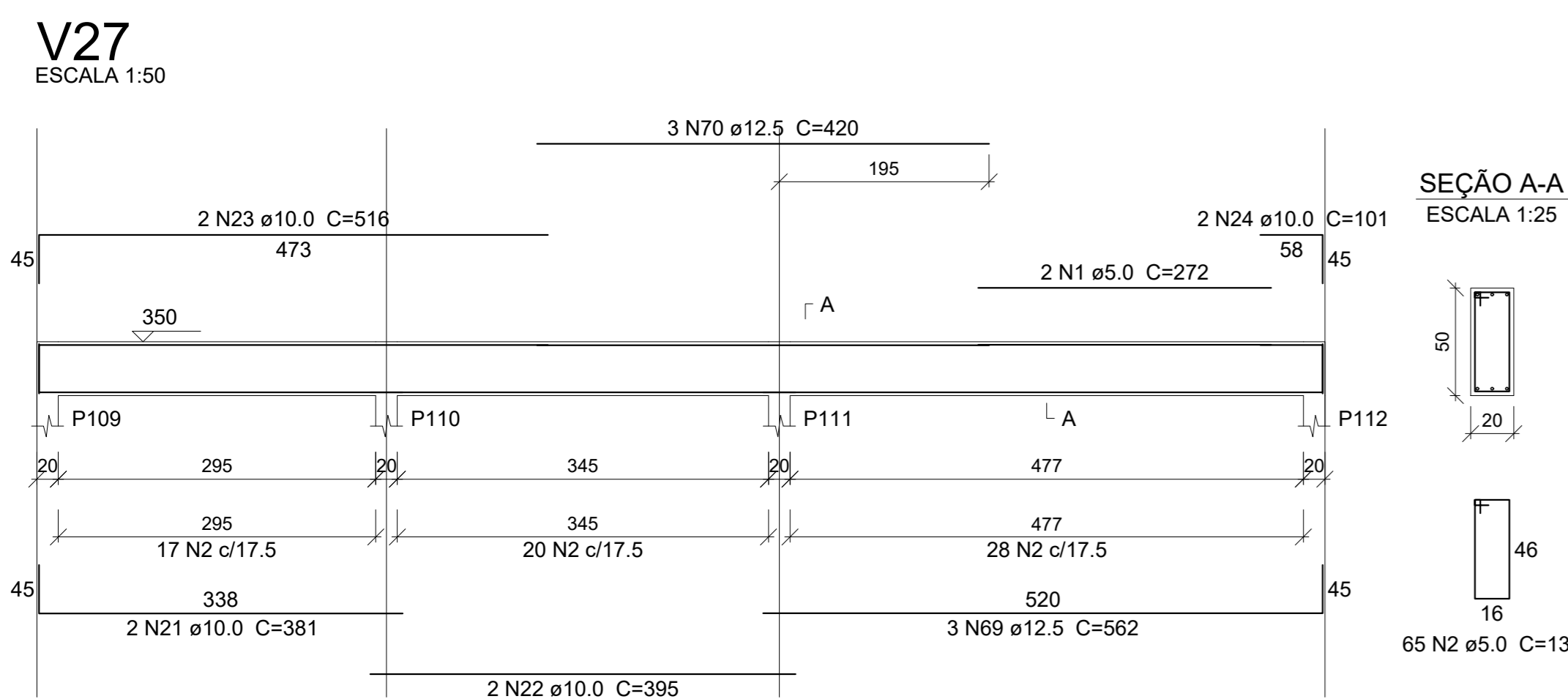
**ESTADO DO CEARÁ**  
**PREFEITURA MUNICIPAL DE QUIXADÁ**

CONCRETO: FR - 30 MPa  
CLIENTE: PREFEITURA MUNICIPAL DE QUIXADÁ - CE  
OBJETO: PRÉDIO PARA USO HOSPITALAR  
TÍTULO: Vigas do pavimento LAJE DE FORRO

PROJETO Nº: 14  
REV. Nº: 00

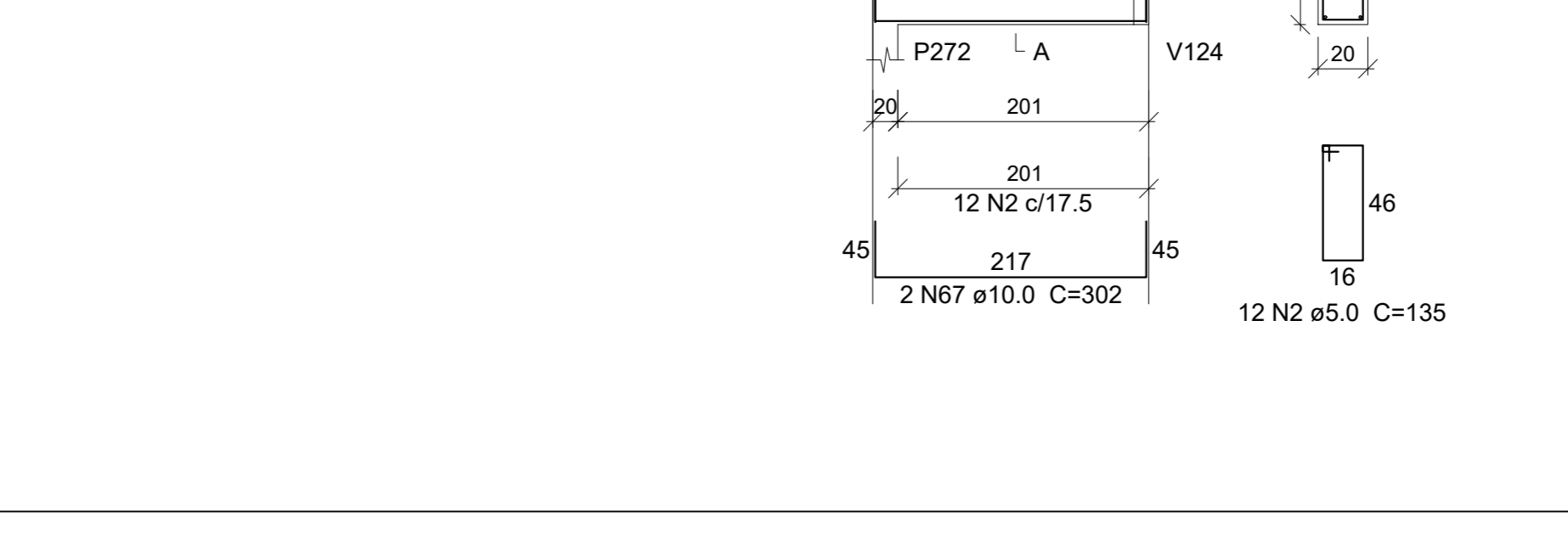
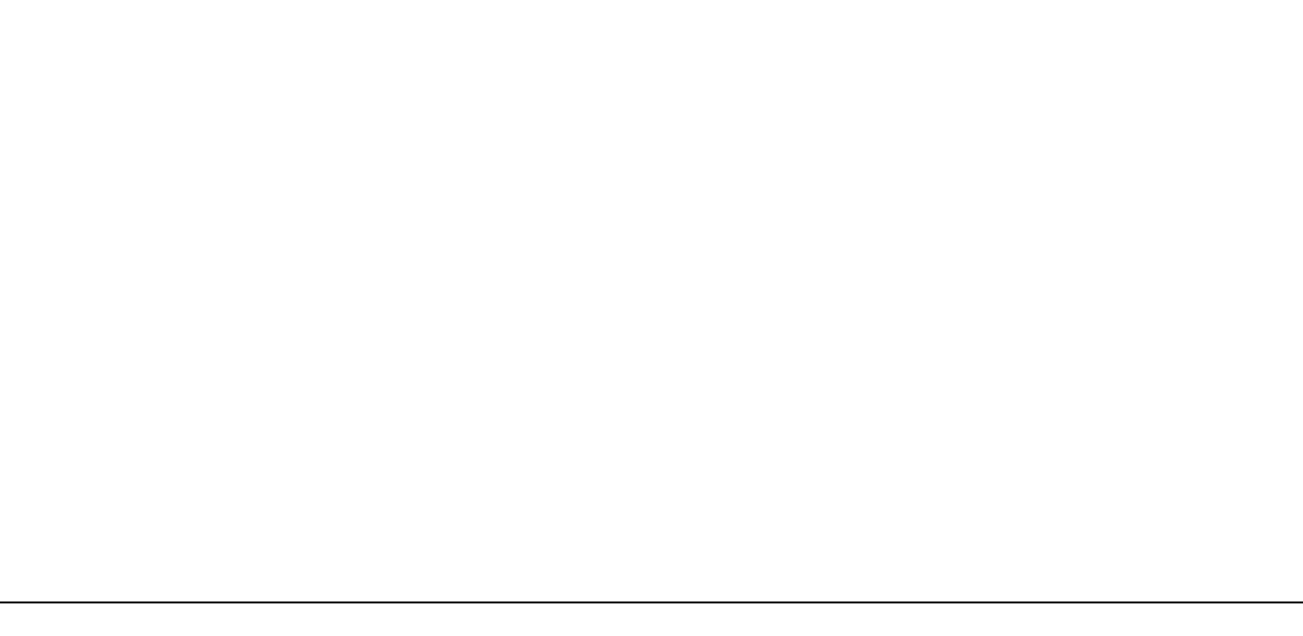
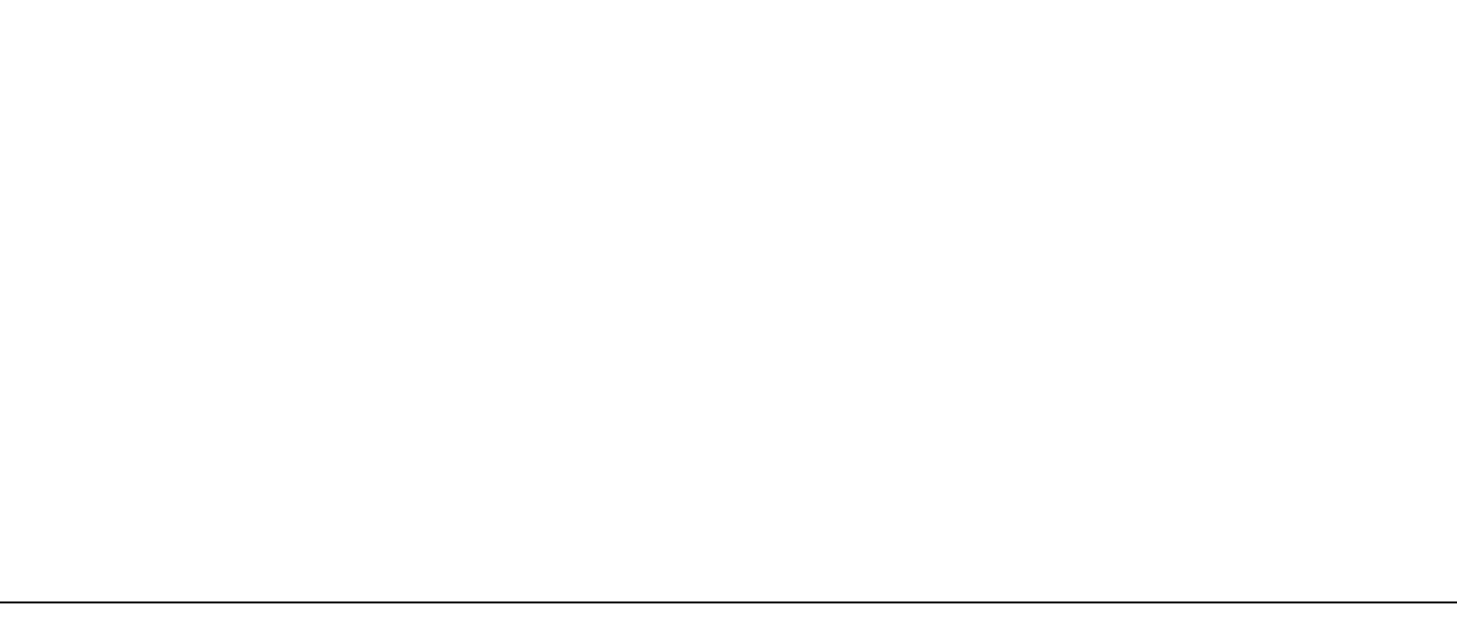
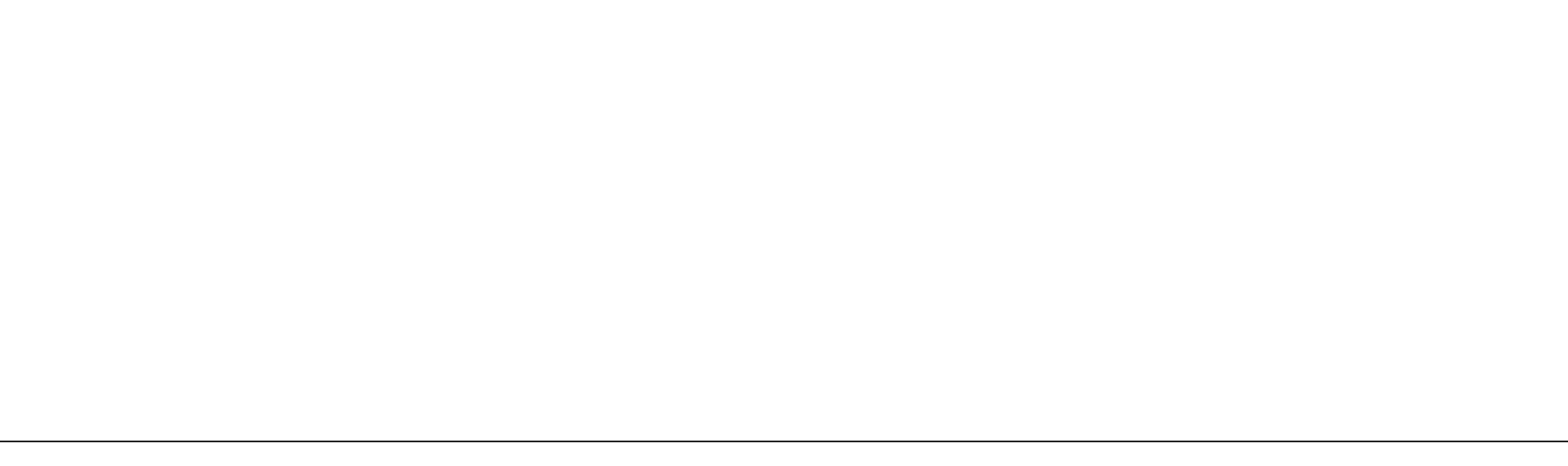
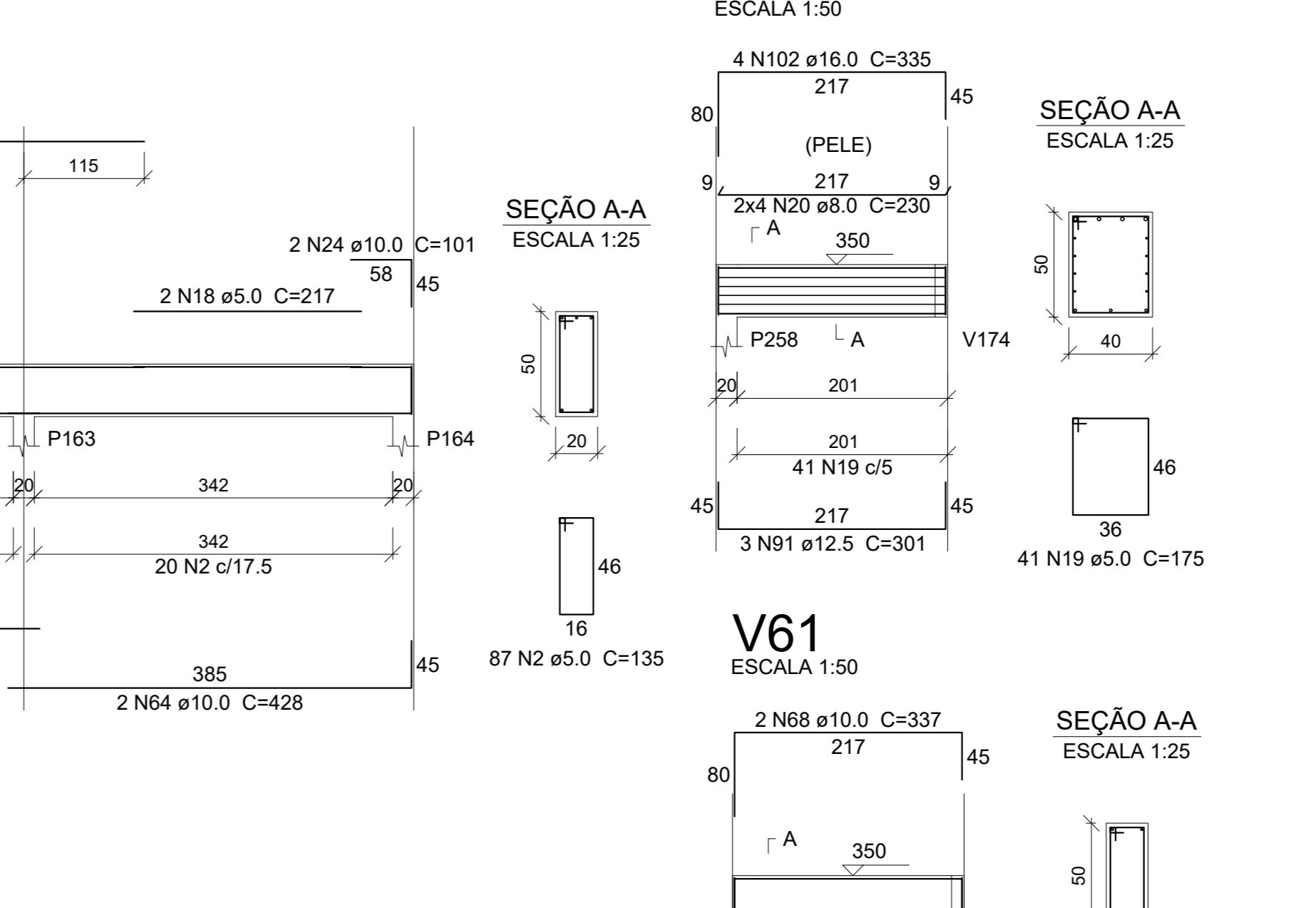
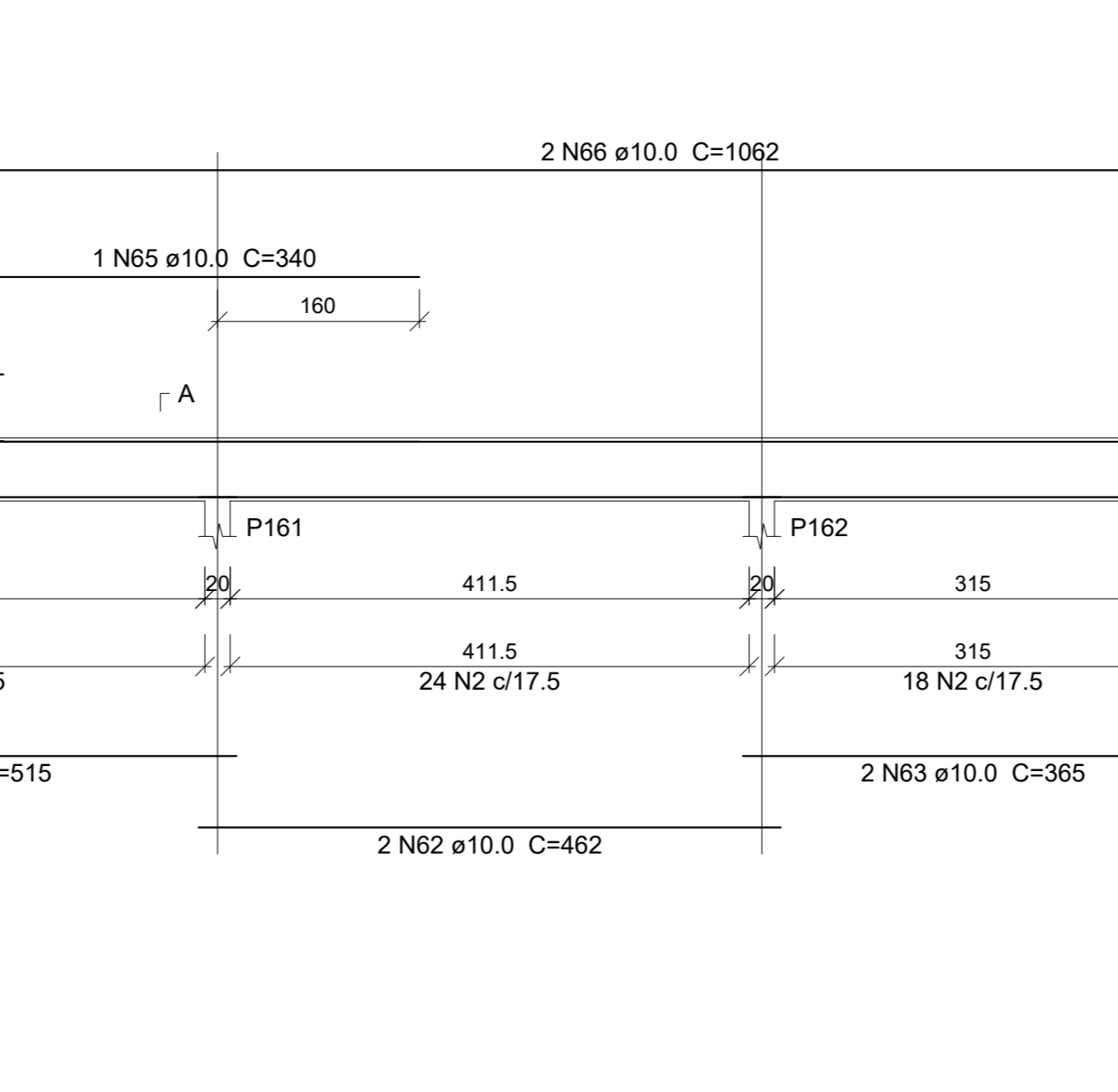
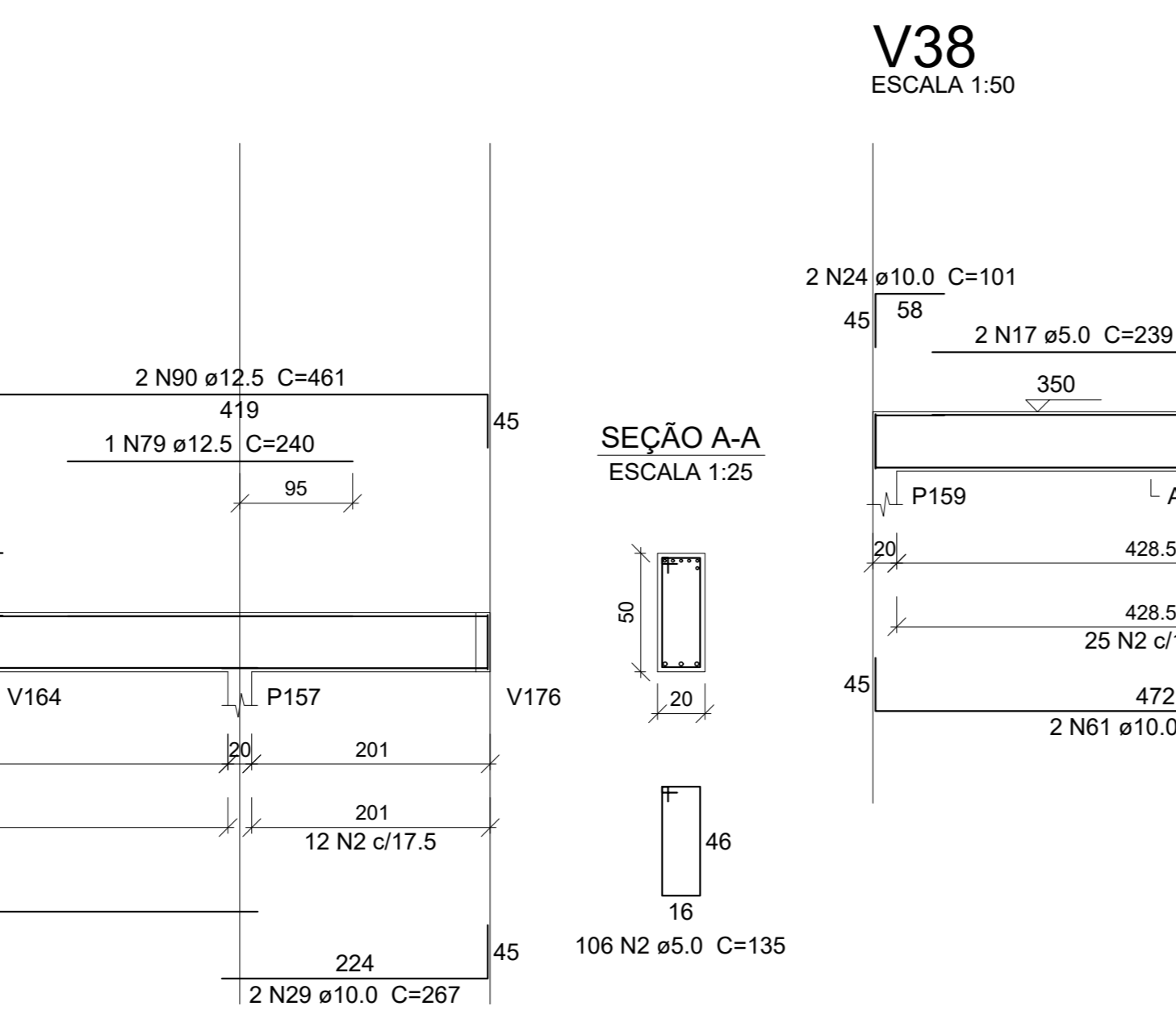
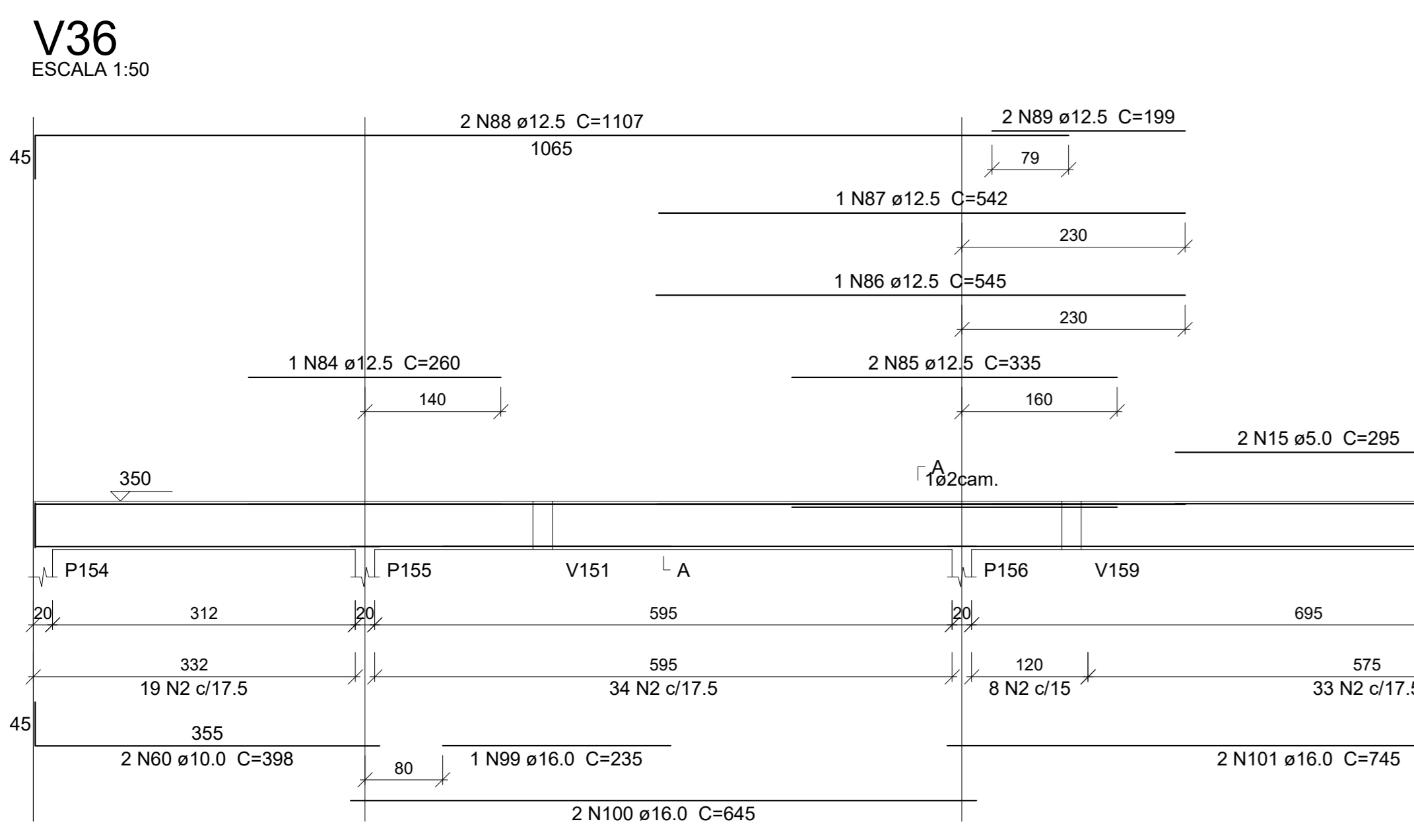
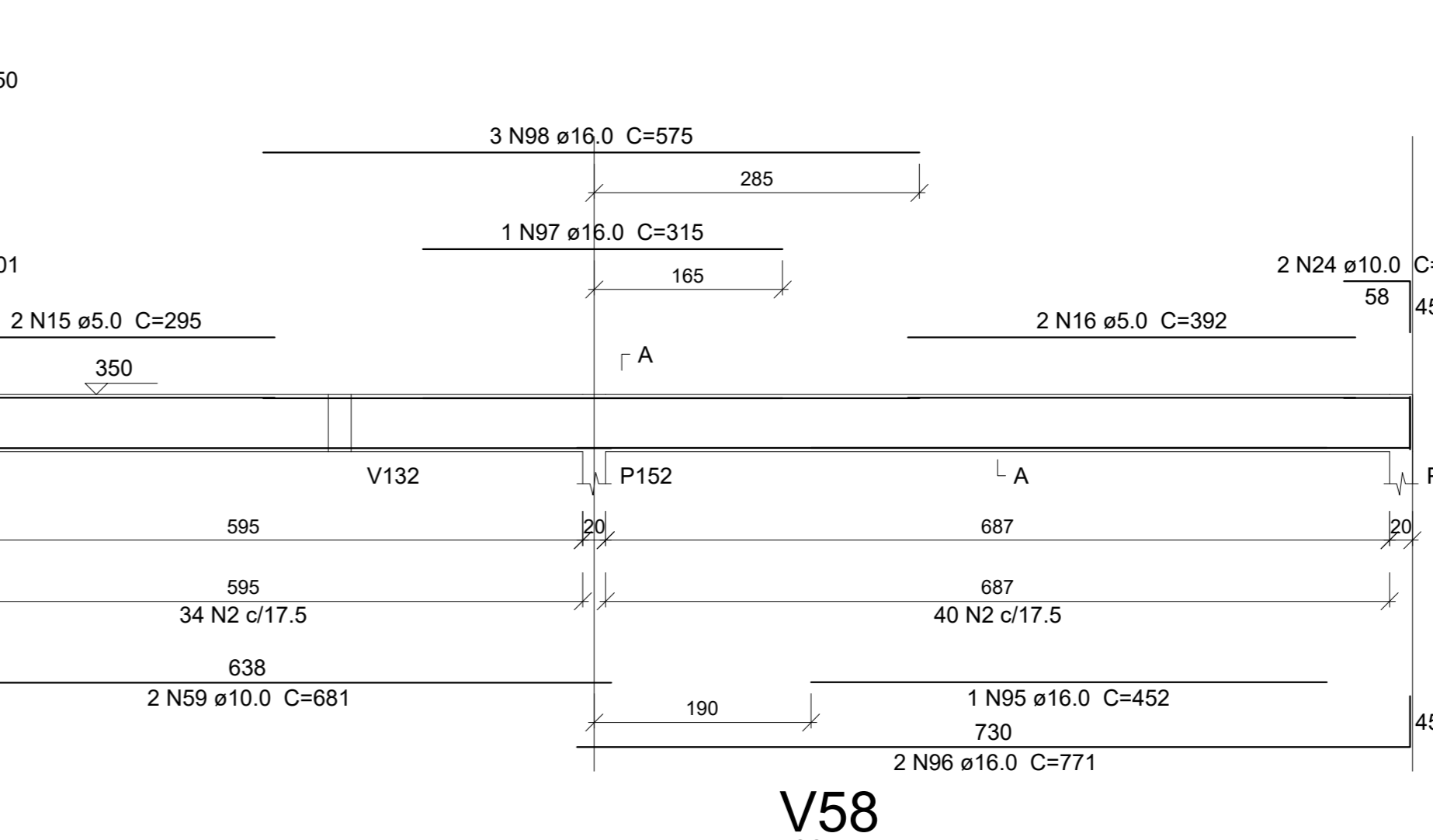
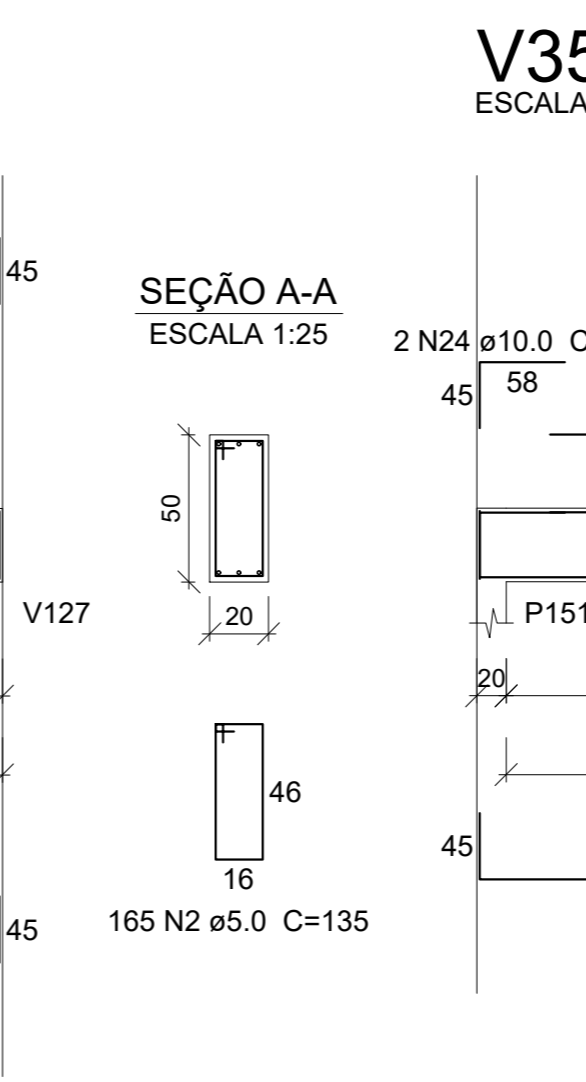
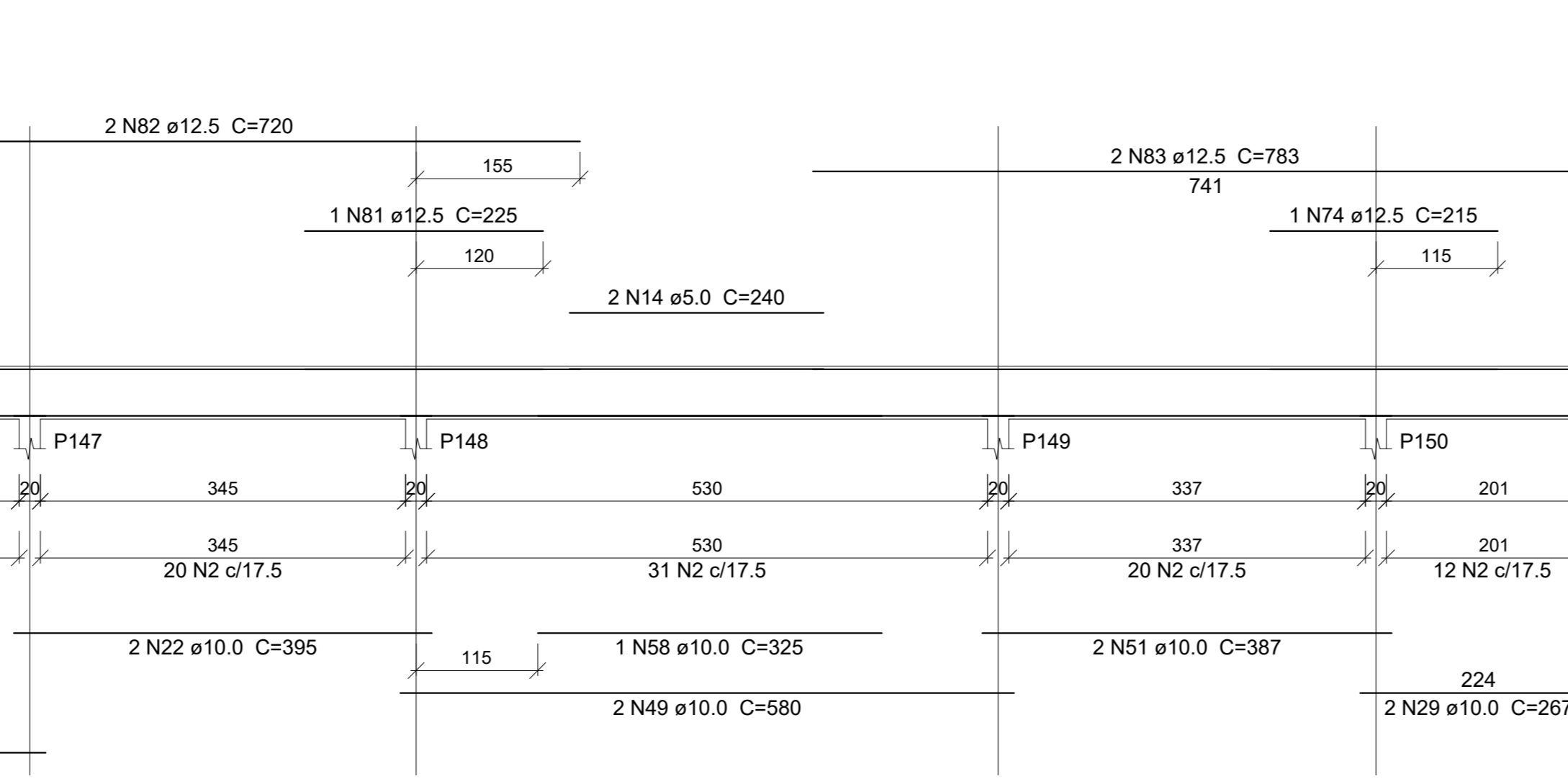
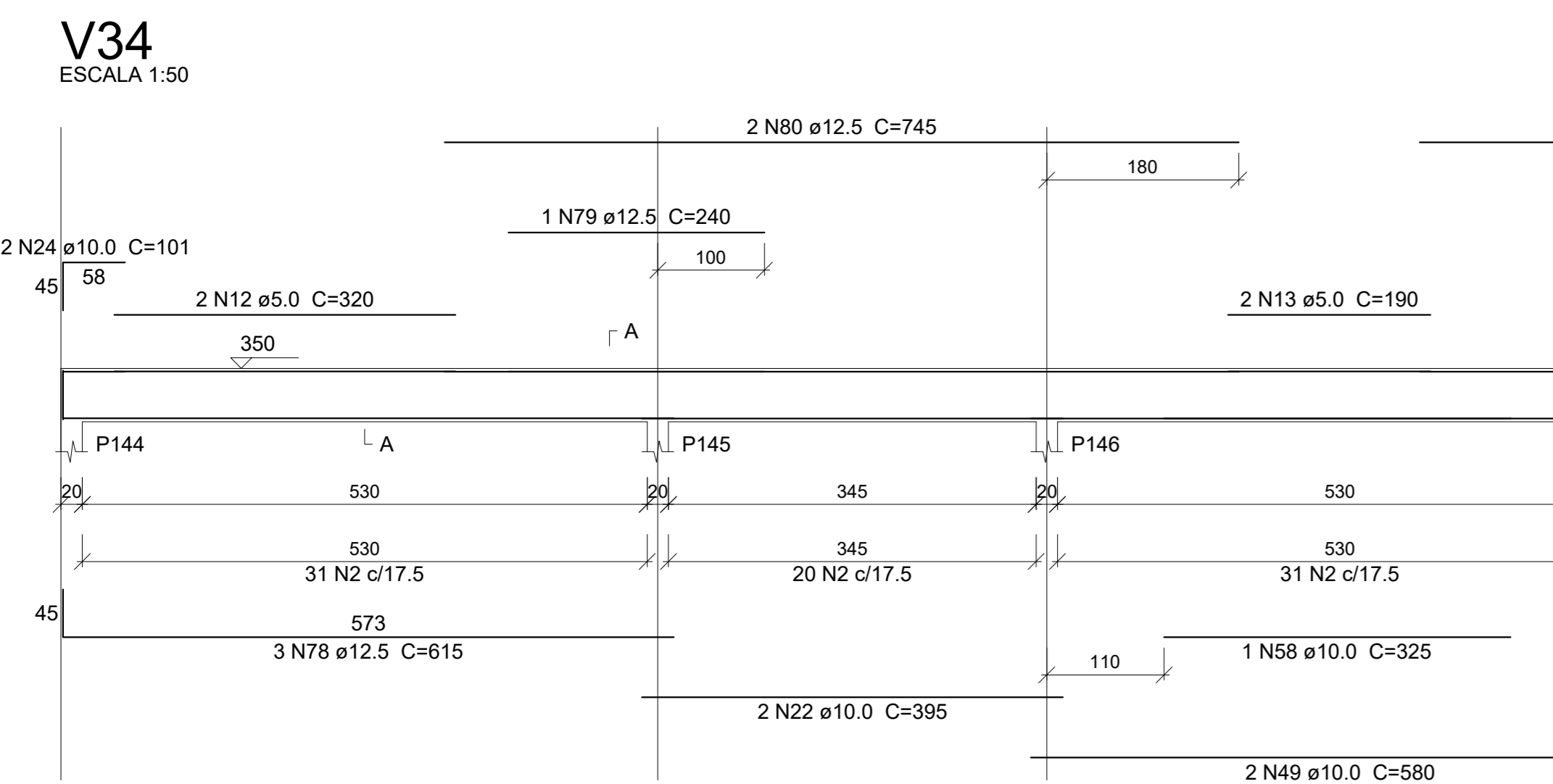
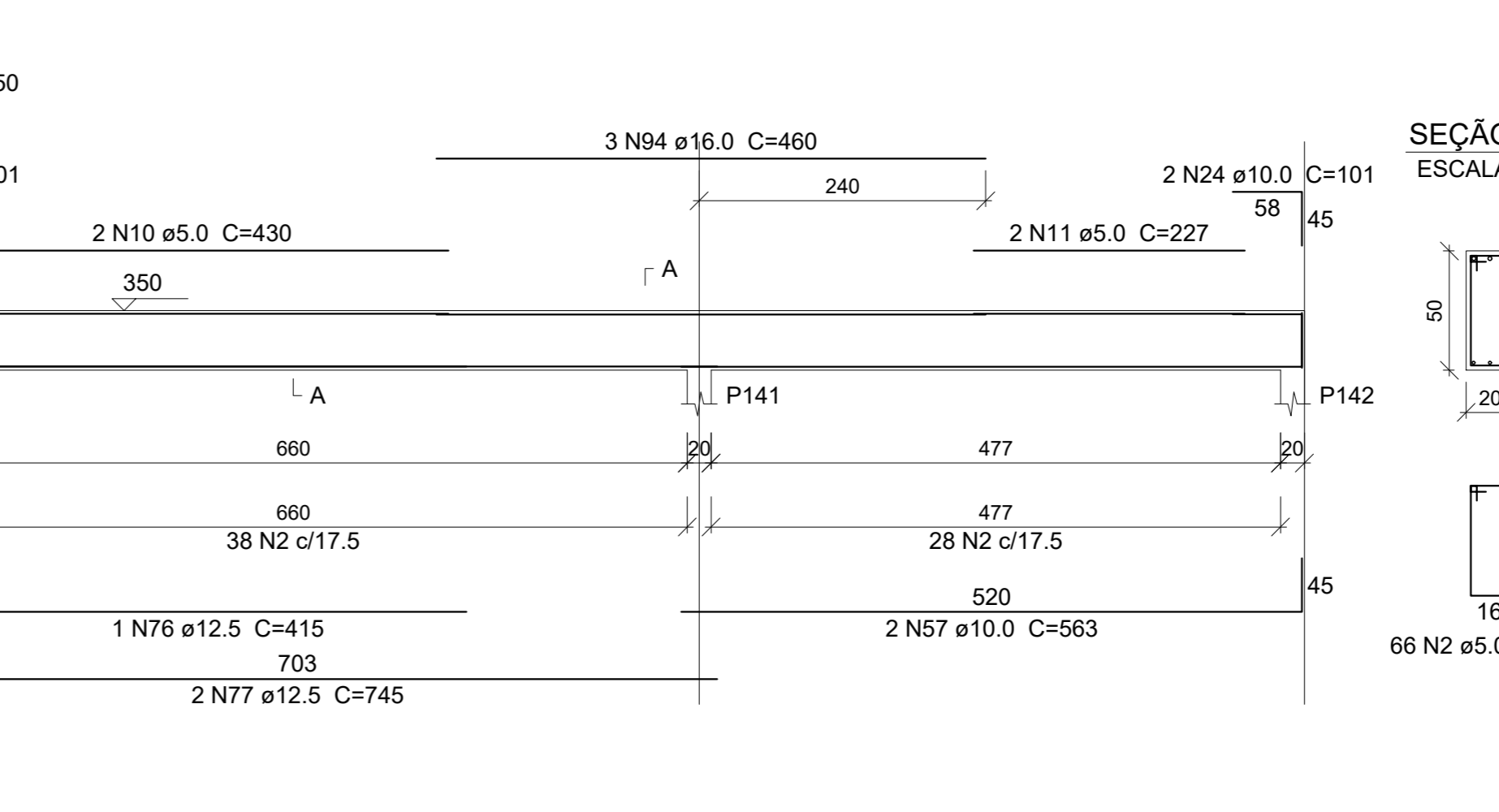
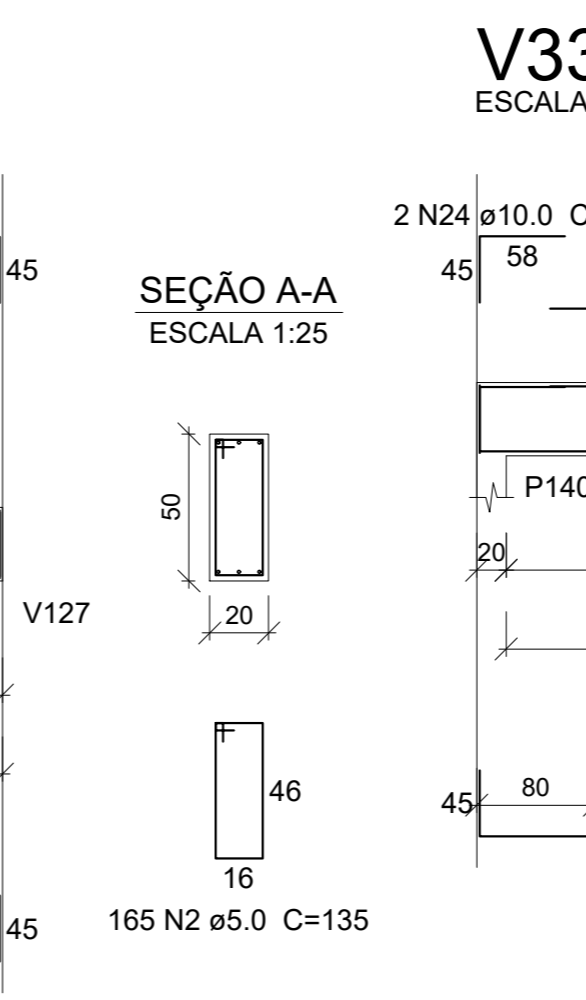
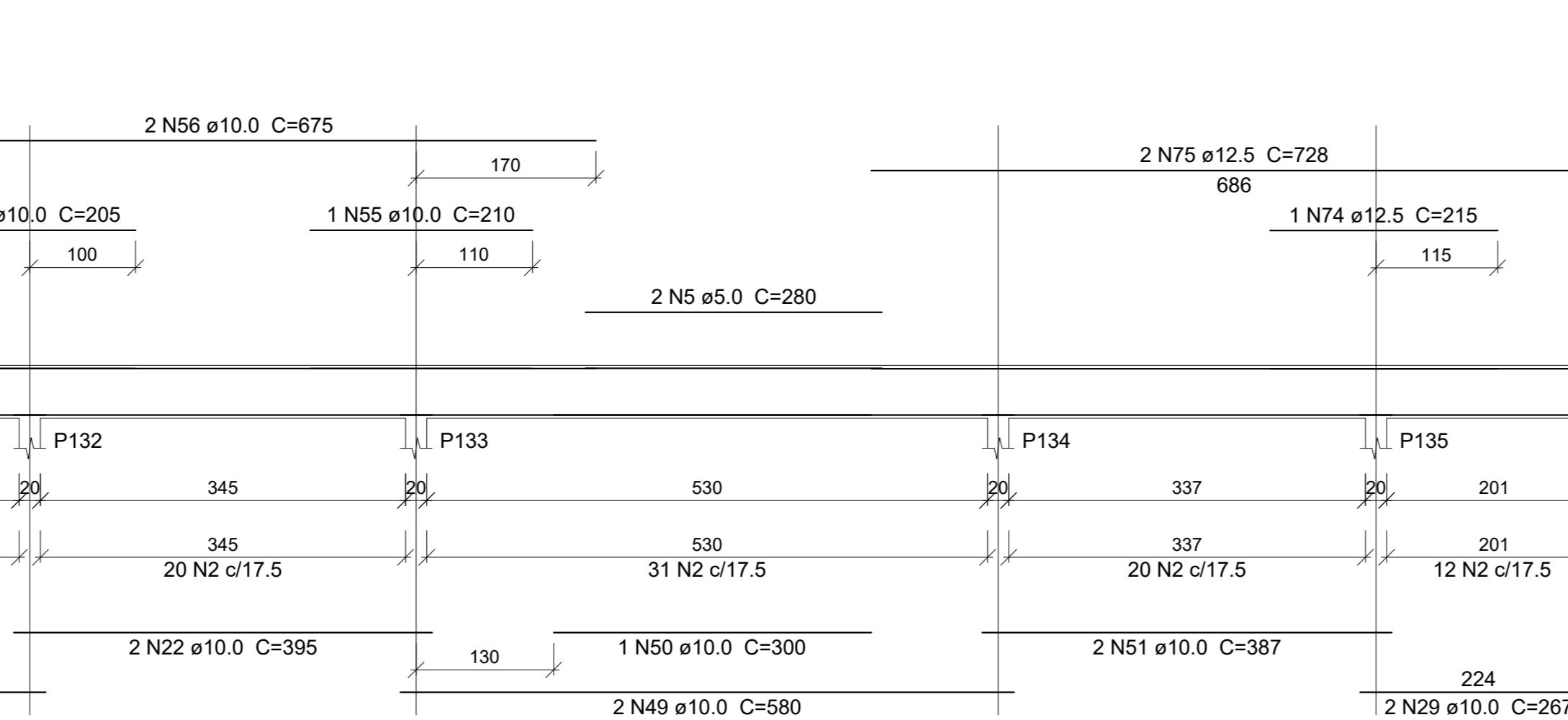
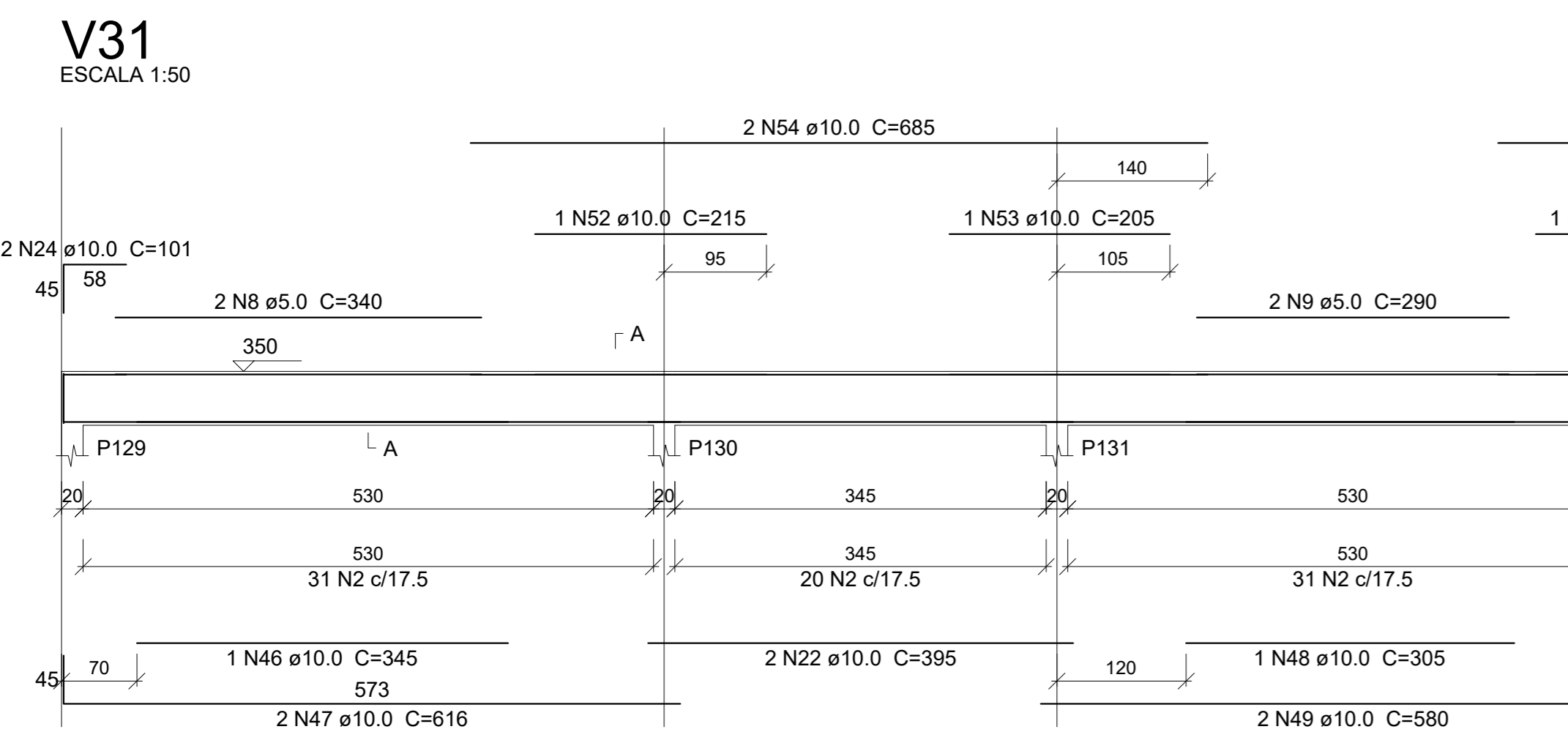
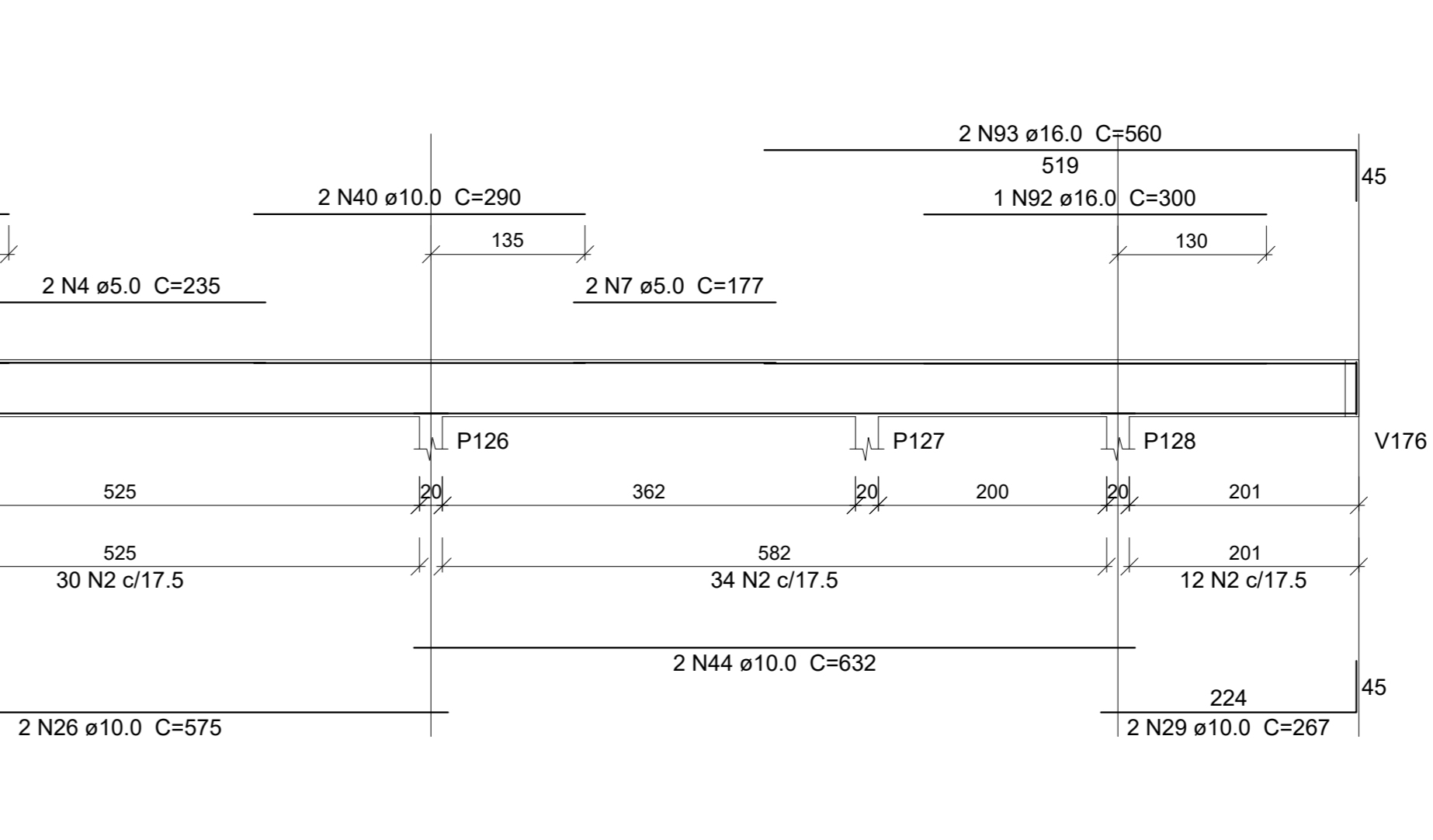
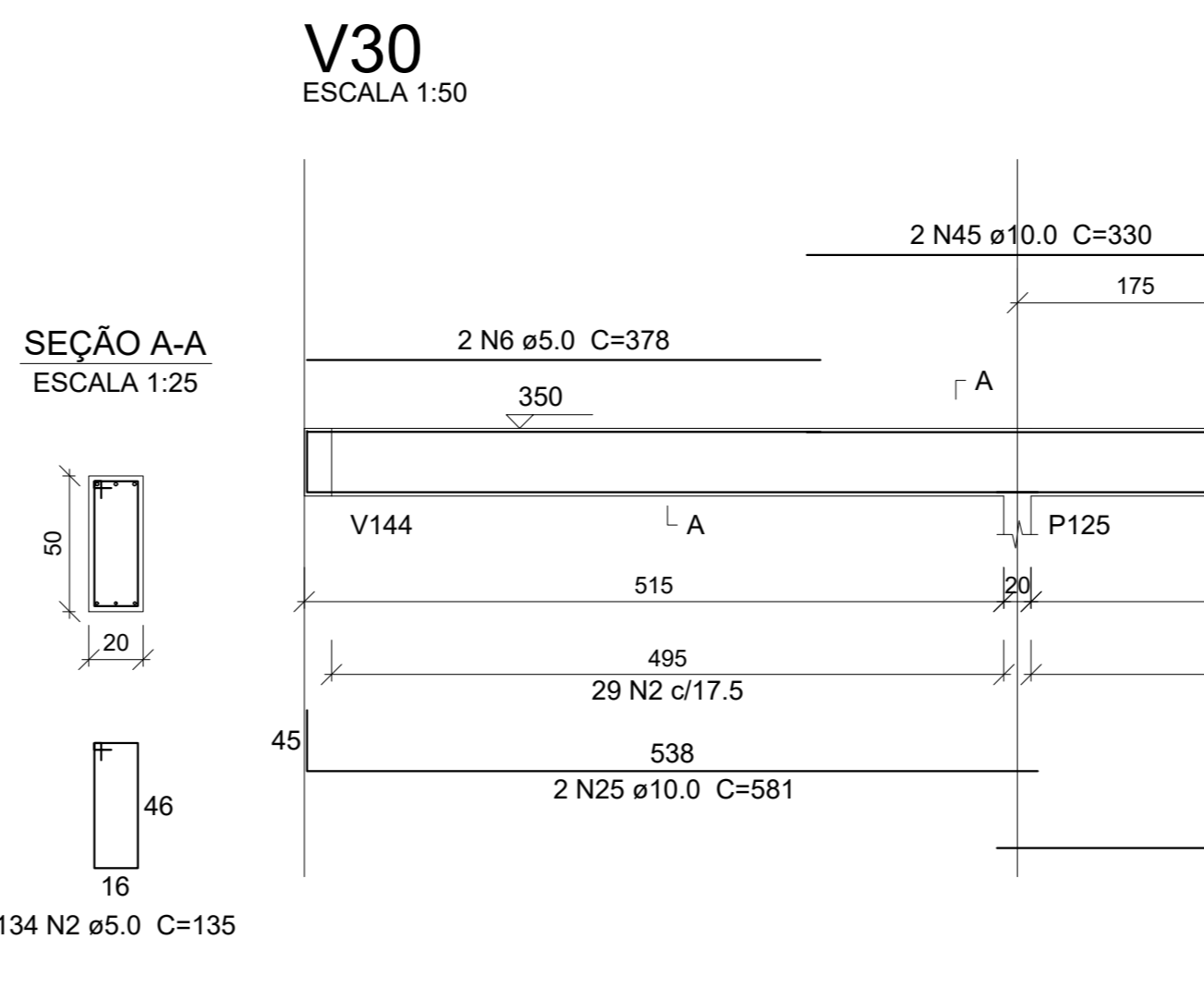
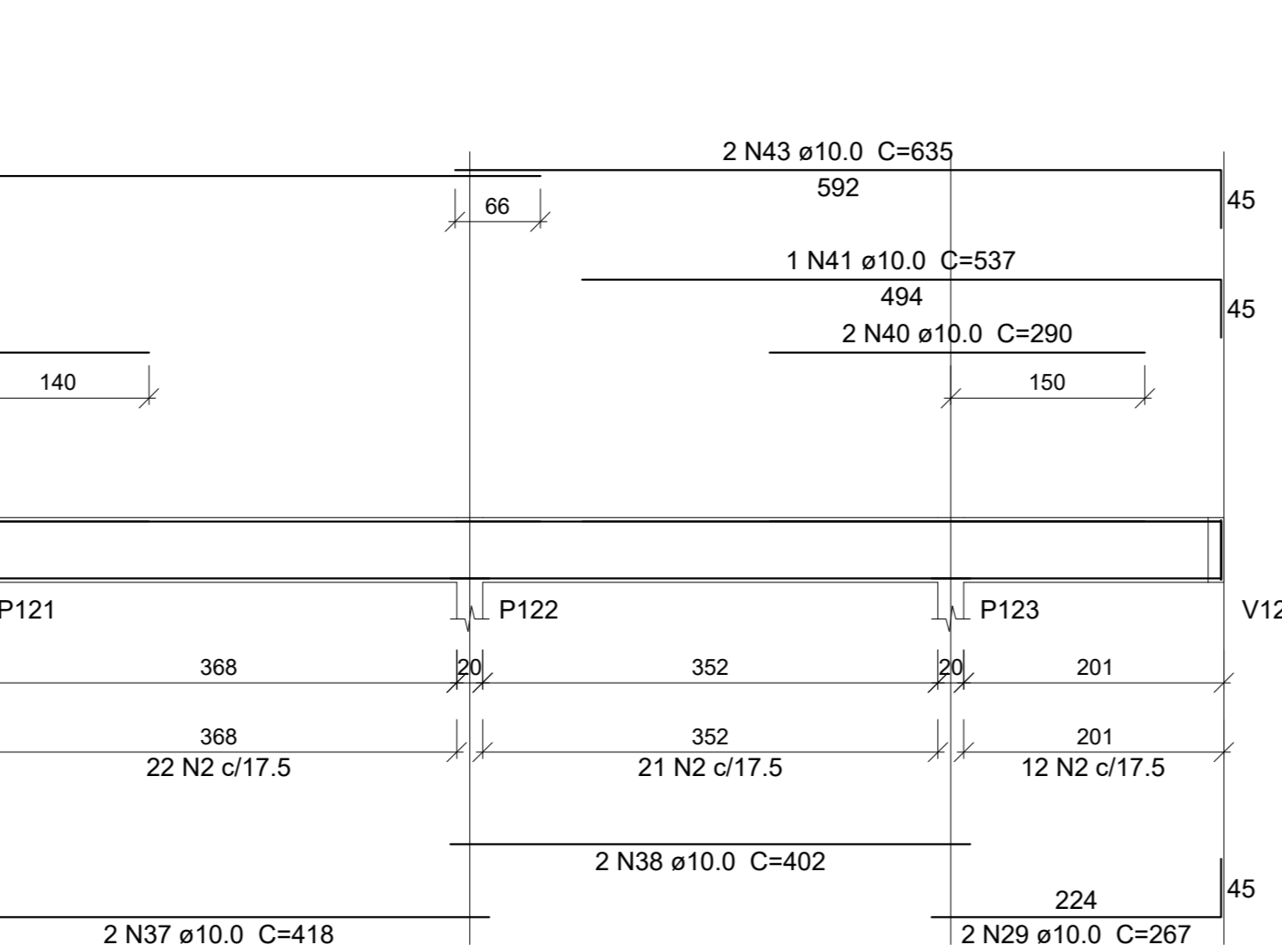
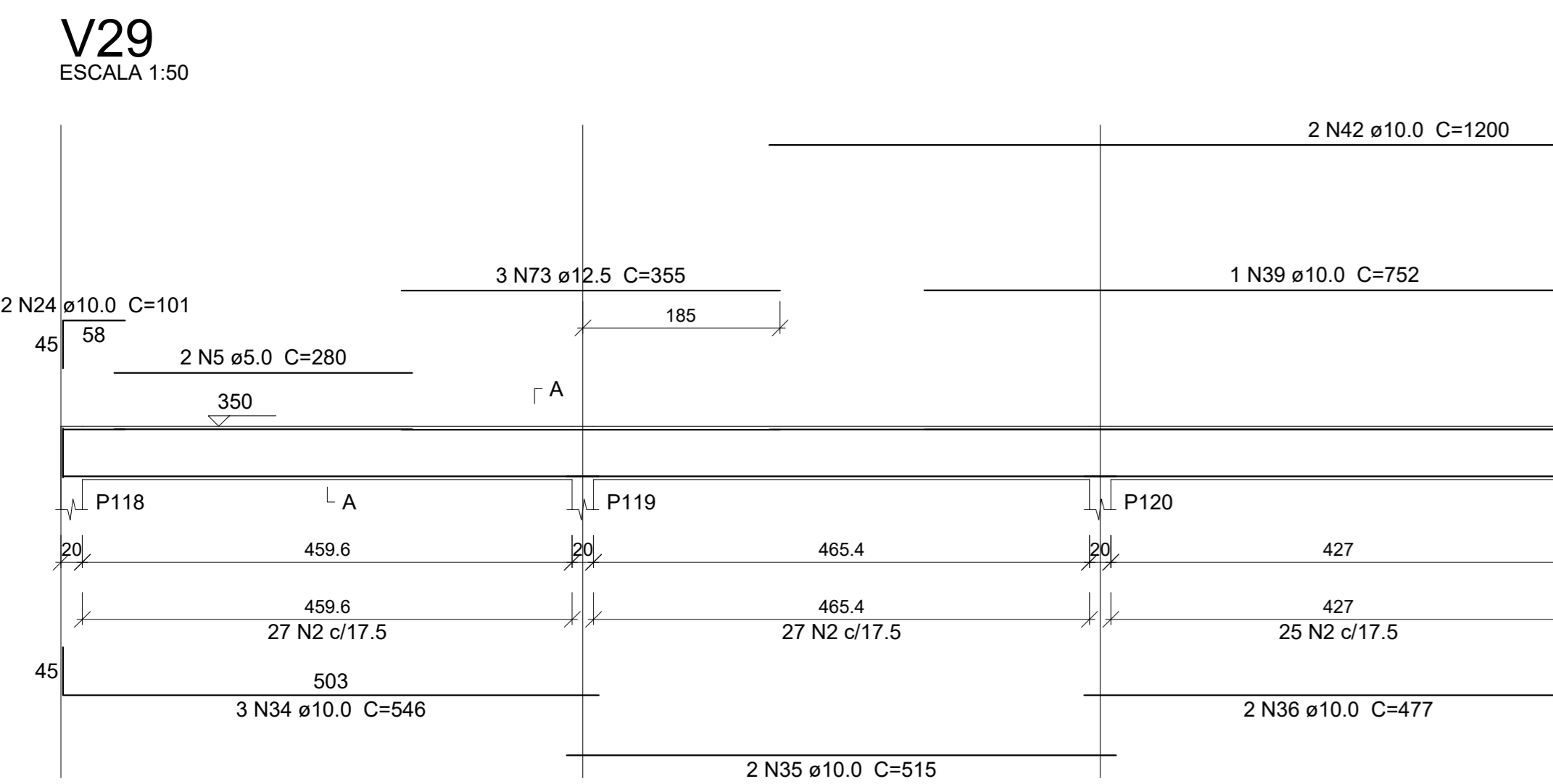
DATA: 01/03/2024 | ESCALA: 1:50 | DESENHO: MARLAU-VIGAS-01-400 | COORDENADOR: FOLG | PÁG. 1





**Relação do aço**

ACO	N	DIAM (mm)	QUANT	C.LUNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	2	272	544
	2	5.0	1123	135	151605
	3	5.0	2	265	530
	4	5.0	4	235	940
	5	5.0	4	280	1120
	6	5.0	2	378	756
	7	5.0	2	177	354
	8	5.0	2	340	680
	9	5.0	2	290	580
	10	5.0	2	430	860
	11	5.0	2	227	454
	12	5.0	2	320	640
	13	5.0	2	190	380
	14	5.0	2	240	480
	15	5.0	4	295	1180
	16	5.0	2	392	784
	17	5.0	2	239	478
	18	5.0	2	217	434
	19	5.0	41	175	7175
	20	8.0	8	230	1940
	21	10.0	2	381	762
	22	10.0	10	395	3950
	23	10.0	2	516	1032
	24	10.0	22	101	2222
	25	10.0	5	581	2905
	26	10.0	4	575	2300
	27	10.0	2	412	824
	28	10.0	2	250	500
	29	10.0	12	267	3204
	30	10.0	3	694	2082
	31	10.0	6	420	2520
	32	10.0	2	215	430
	33	10.0	2	220	440
	34	10.0	3	546	1638
	35	10.0	2	515	1030
	36	10.0	2	477	954
	37	10.0	2	418	836
	38	10.0	2	402	804
	39	10.0	2	215	430
	40	10.0	4	290	1160
	41	10.0	1	537	537
	42	10.0	2	1200	2400
	43	10.0	2	635	1270
	44	10.0	2	632	1264
	45	10.0	2	330	660
	46	10.0	1	1345	1345
	47	10.0	2	616	1232
	48	10.0	1	305	305
	49	10.0	6	650	3900
	50	10.0	1	300	300
	51	10.0	4	387	1548
	52	10.0	1	215	215
	53	10.0	2	205	410
	54	10.0	2	685	1370
	55	10.0	1	210	210
	56	10.0	2	675	1350
	57	10.0	2	563	1126
	58	10.0	2	325	650
	59	10.0	2	681	1362
	60	10.0	2	398	796
	61	10.0	2	515	1030
	62	10.0	2	462	924
	63	10.0	2	365	730
	64	10.0	2	428	856
	65	10.0	1	340	340
	66	10.0	2	1062	2124
	67	10.0	2	302	604
	68	10.0	2	337	674
	69	12.5	3	562	1686
	70	12.5	3	420	1260
	71	12.5	2	215	430
	72	12.5	3	395	1185
	73	12.5	3	355	1065
	74	12.5	2	215	430
	75	12.5	2	728	1456
	76	12.5	1	415	415
	77	12.5	2	745	1490
	78	12.5	3	615	1845
	79	12.5	2	240	480
	80	12.5	2	745	1490
	81	12.5	1	225	225
	82	12.5	2	720	1440
	83	12.5	2	783	1566
	84	12.5	1	260	260
	85	12.5	2	335	670
	86	12.5	1	545	545
	87	12.5	1	542	542
	88	12.5	2	1107	2214
	89	12.5	2	199	398
	90	12.5	2	461	922
	91	12.5	3	301	903
	92	16.0	1	300	300
	93	16.0	2	560	1120
	94	16.0	3	460	1380
	95	16.0	1	452	452
	96	16.0	2	771	1542
	97	16.0	1	315	315
	98	16.0	3	575	1725
	99	16.0	1	235	235
	100	16.0	2	645	1290
	101	16.0	2	745	1490
	102	16.0	4	335	1340



**Resumo do aço**

ACO	DIAM (mm)	C.TOTAL (m)	PESO (kg)
CA50	8.0	18.4	7.3
	10.0	605.2	373.3
	12.5	237.2	228.5
	16.0	111.9	178.6
CA60	5.0	1699.8	262
<b>PESO TOTAL (kg)</b>			
CA50		785.4	
CA60		262	

Volume de concreto (C-30) = 19.65 m³  
Área de forma = 197.08 m²

*Handwritten signature and stamp*

Revisões da prancha

Nº	Descrição	Por	Data
X	XXXXX	XXXXX	XXXX/XX/XX
X	XXXXX	XXXXX	XXXX/XX/XX
X	XXXXX	XXXXX	XXXX/XX/XX
0	Emissão inicial	->	->
Nº	Comentário	Autor	Data

**ESTADO DO CEARÁ**  
**PREFEITURA MUNICIPAL DE QUIXADÁ**

CONCRETO: FA = 30 MPa

CLIENTE: PREFEITURA MUNICIPAL DE QUIXADÁ - CE

OBRA: PRÉDIO PARA USO HOSPITALAR

TÍTULO: Vigas do pavimento LAJE DE FORRO

15

TOTAL: 26

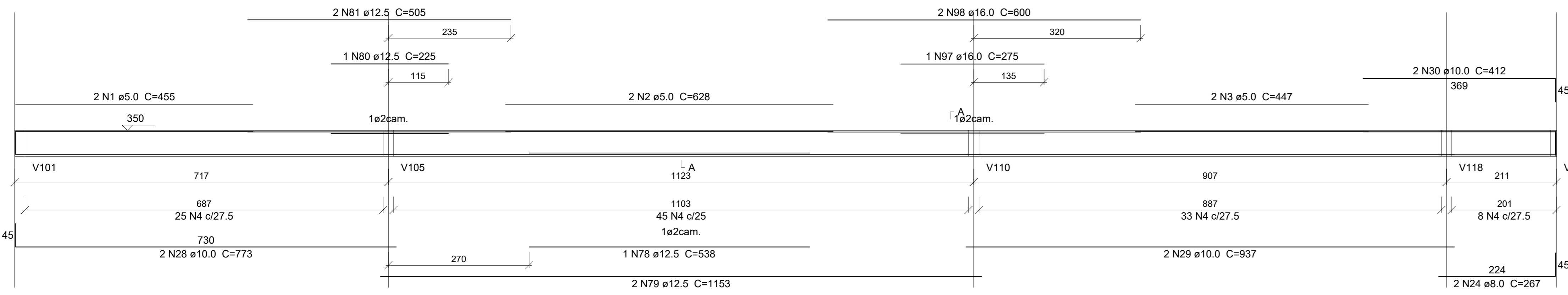
REV. Nº: 1

00

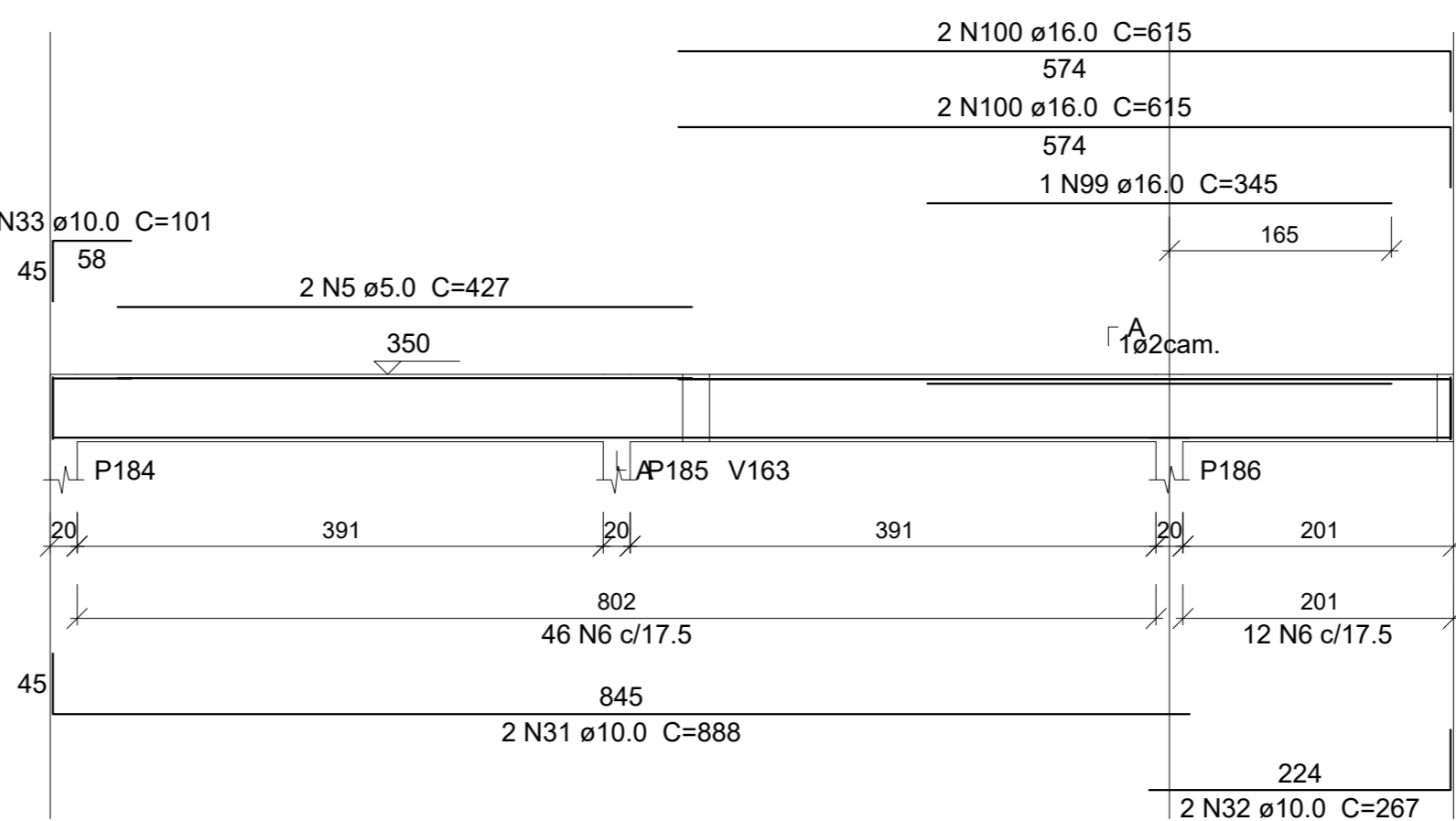
DATA: 01/10/2024 ESCALA: 1:50 LOCAL: MARRA-LAJE 001-REDO



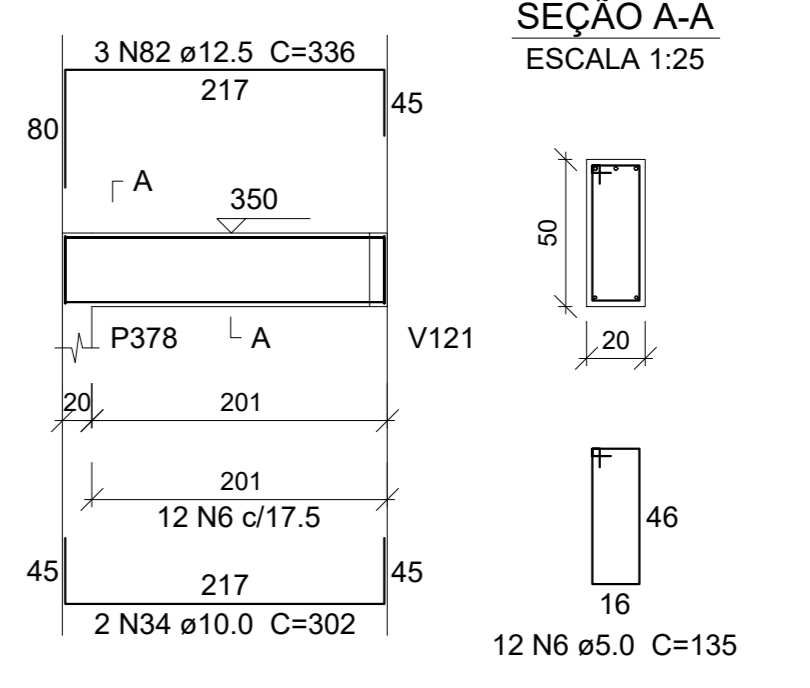
V39 ESCALA 1:50



V43 ESCALA 1:50



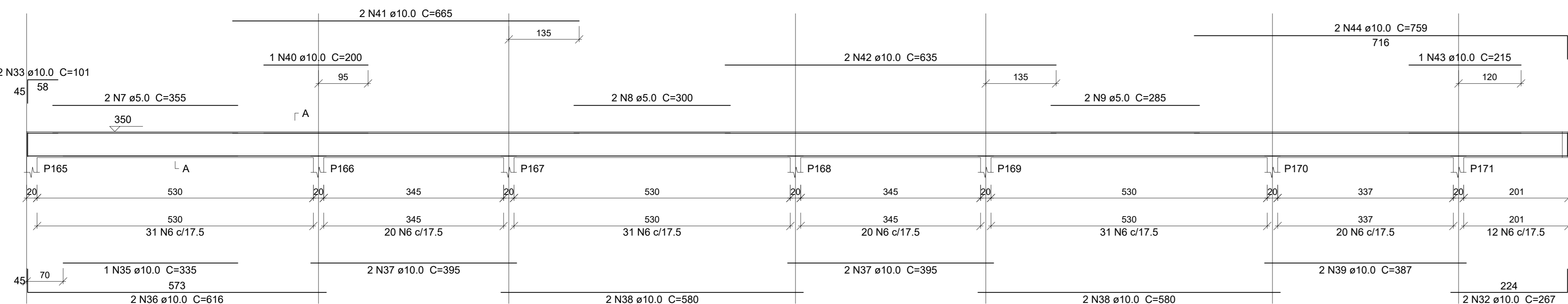
V86 ESCALA 1:50



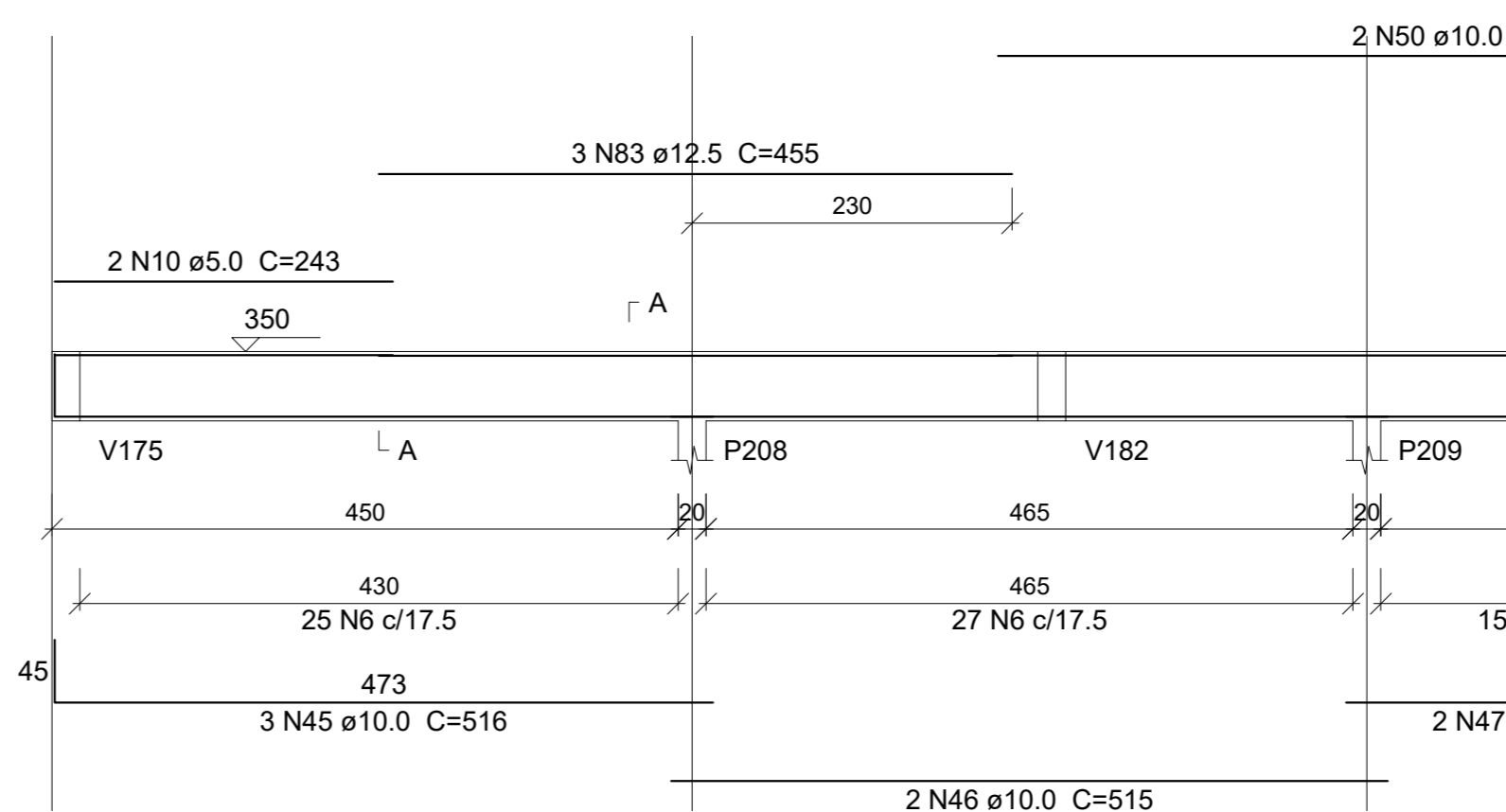
Relação do aço

Table with columns: AÇO, N, DIAM (mm), QUANT, C.UNIT (cm), C.TOTAL (cm). Lists reinforcement for beams V39, V43, V47, V86, V40, V41, V42, V44, V49, V55, V64, V65, V74, V77, V80, V81, V82, V83, V84, V85, V86, V87, V88, V89, V90, V91, V92, V93, V94, V95, V96, V97, V98, V99, V100.

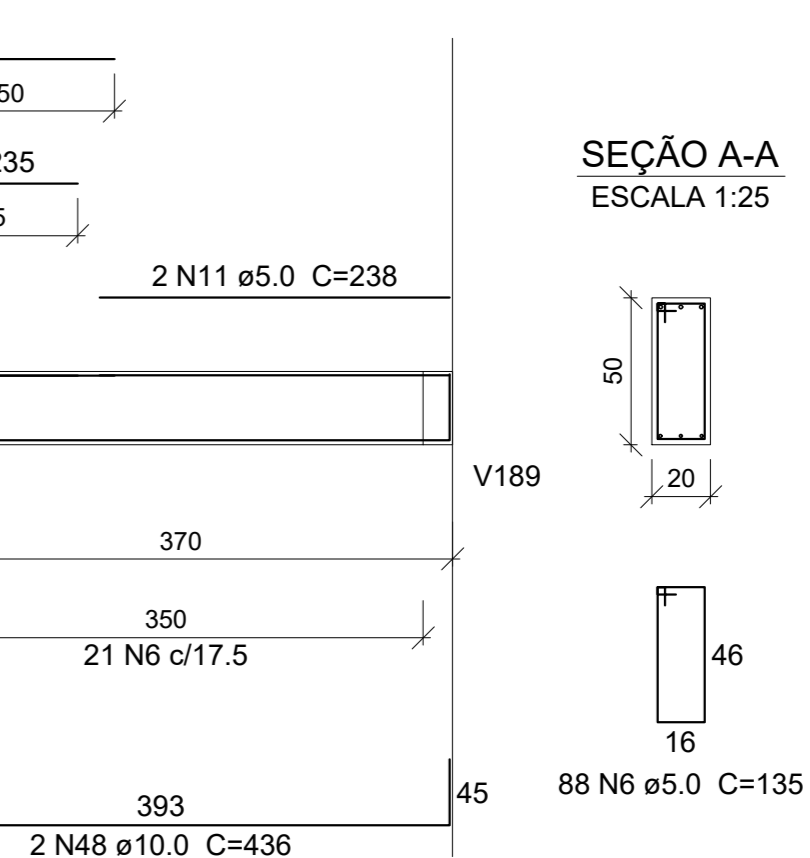
V40 ESCALA 1:50



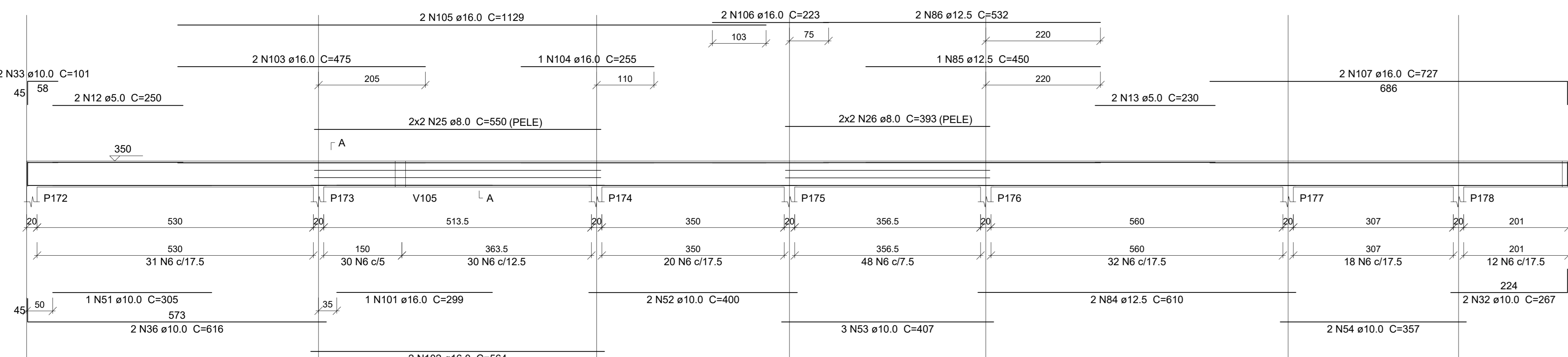
V49 ESCALA 1:50



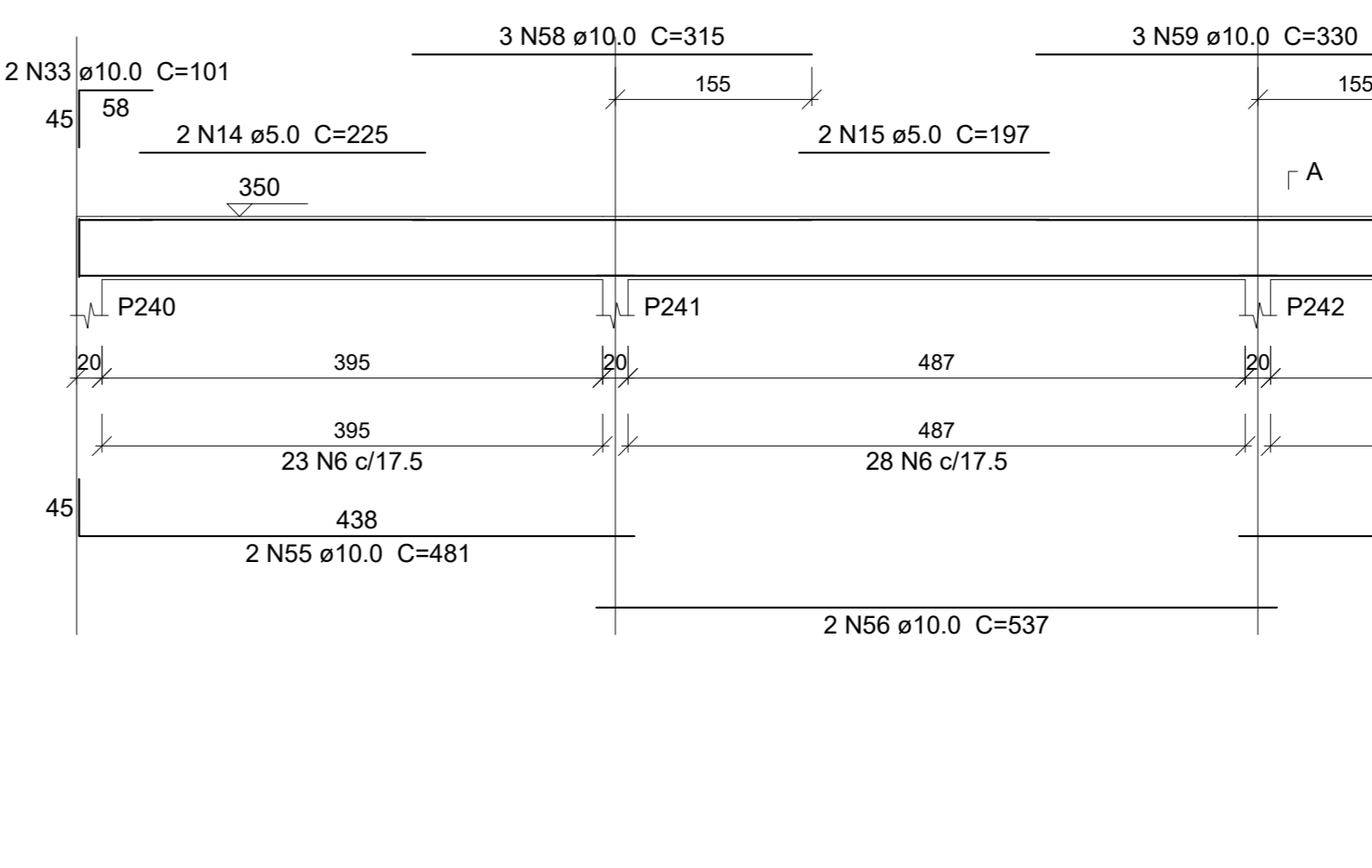
V55 ESCALA 1:50



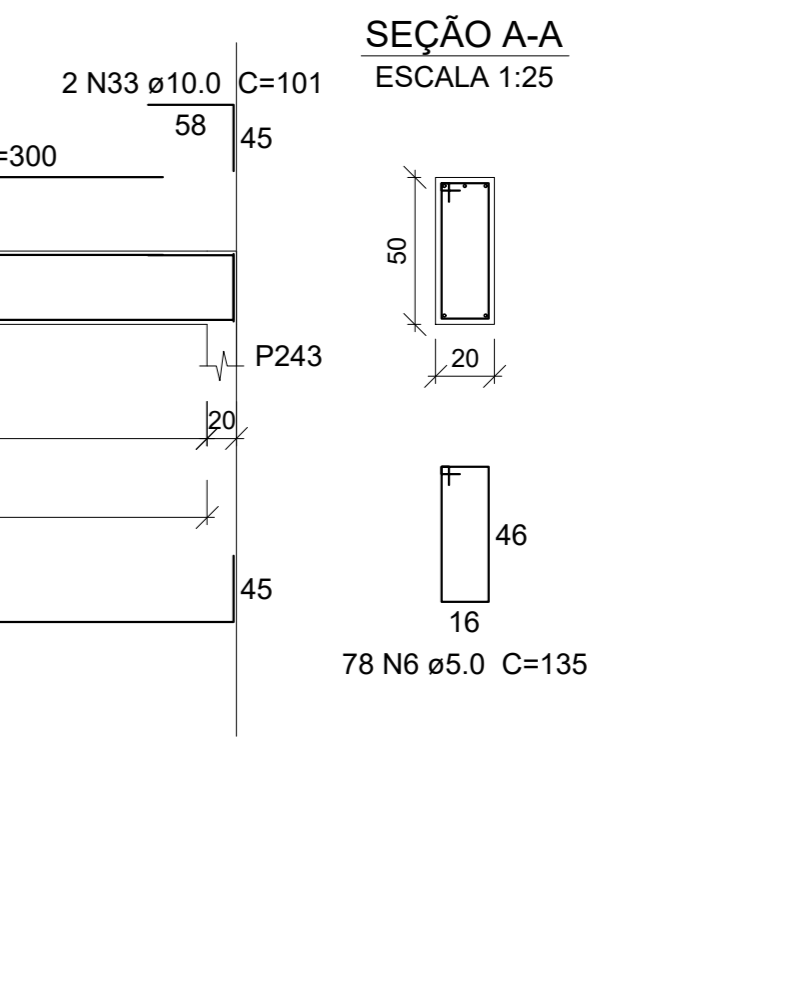
V41 ESCALA 1:50



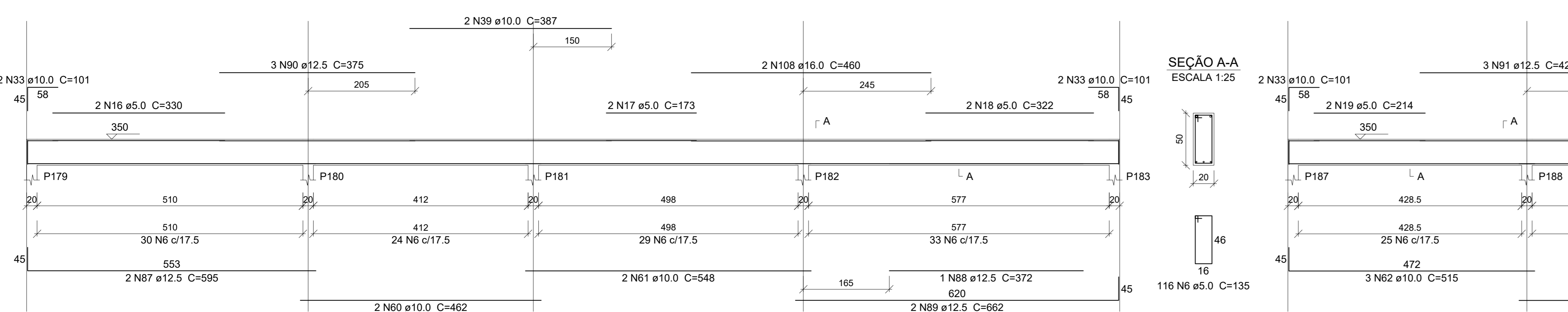
V55 ESCALA 1:50



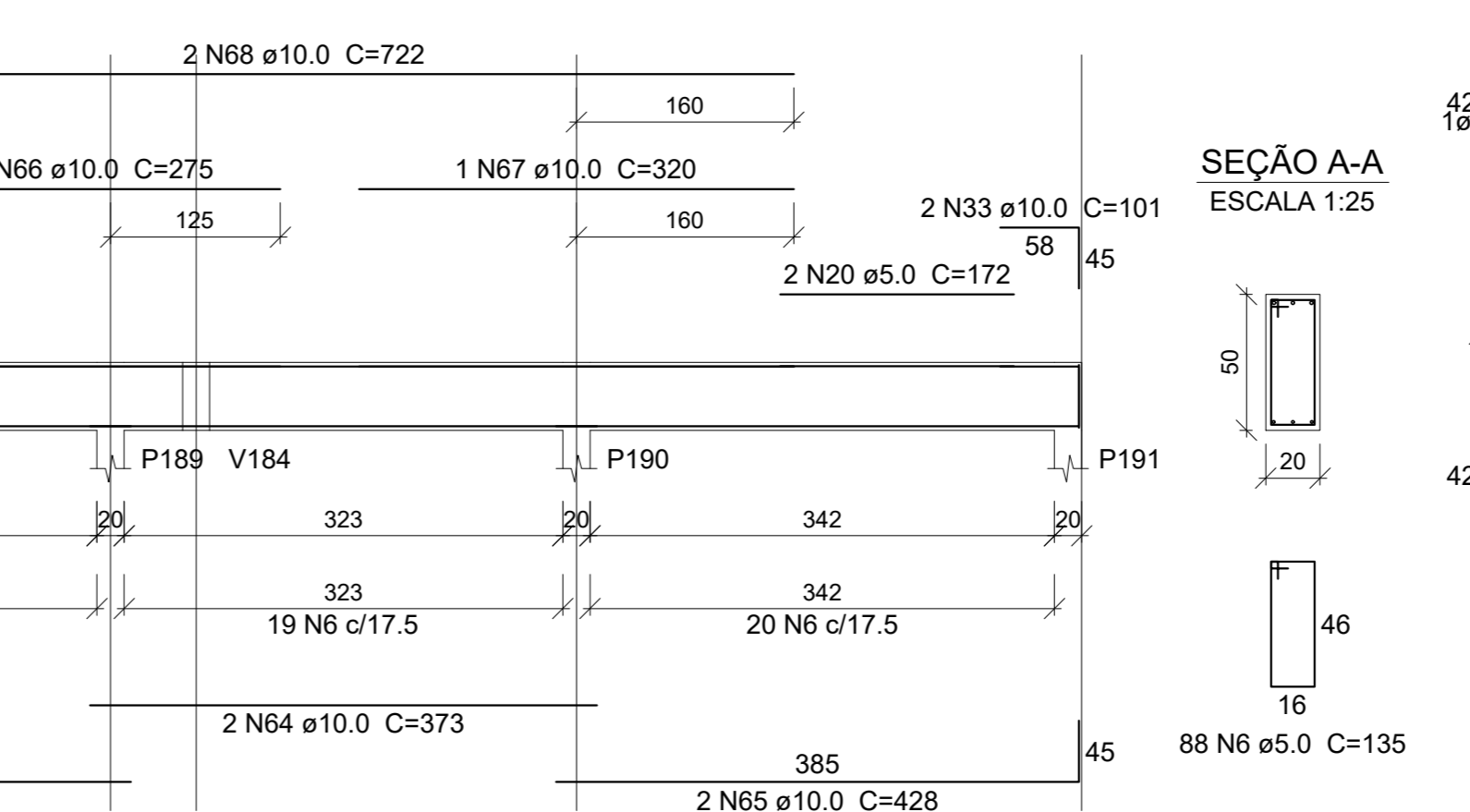
V64 ESCALA 1:50



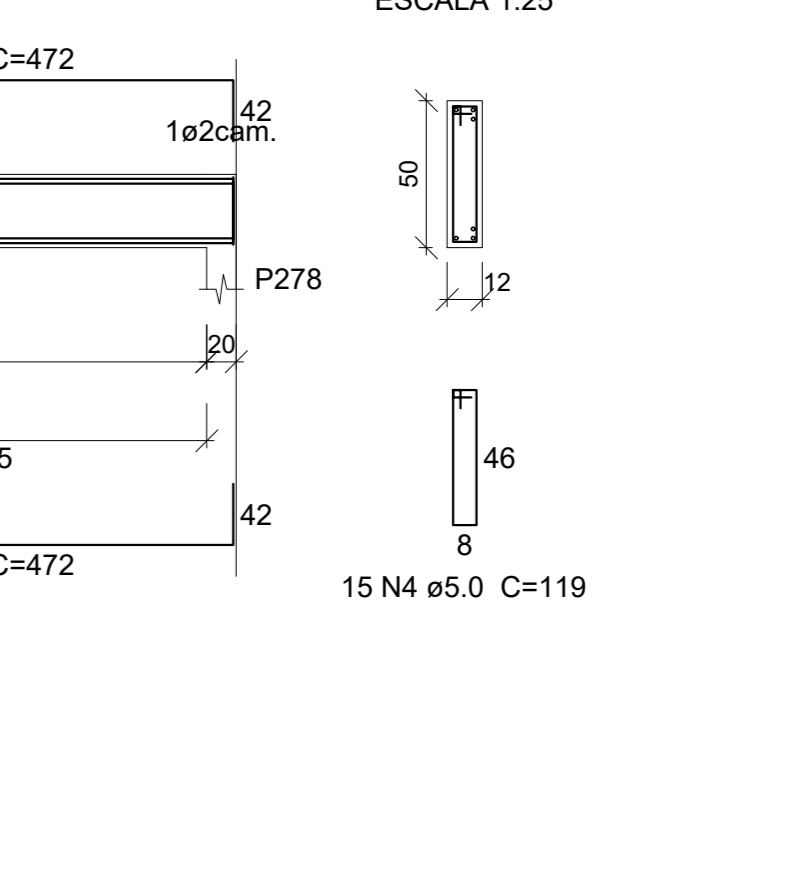
V42 ESCALA 1:50



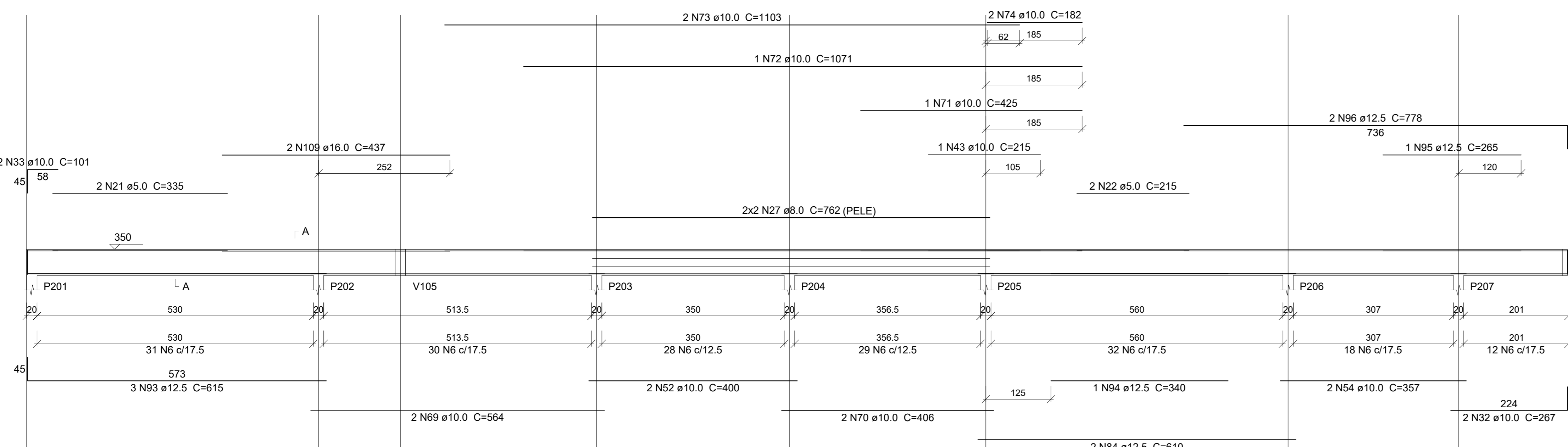
V44 ESCALA 1:50



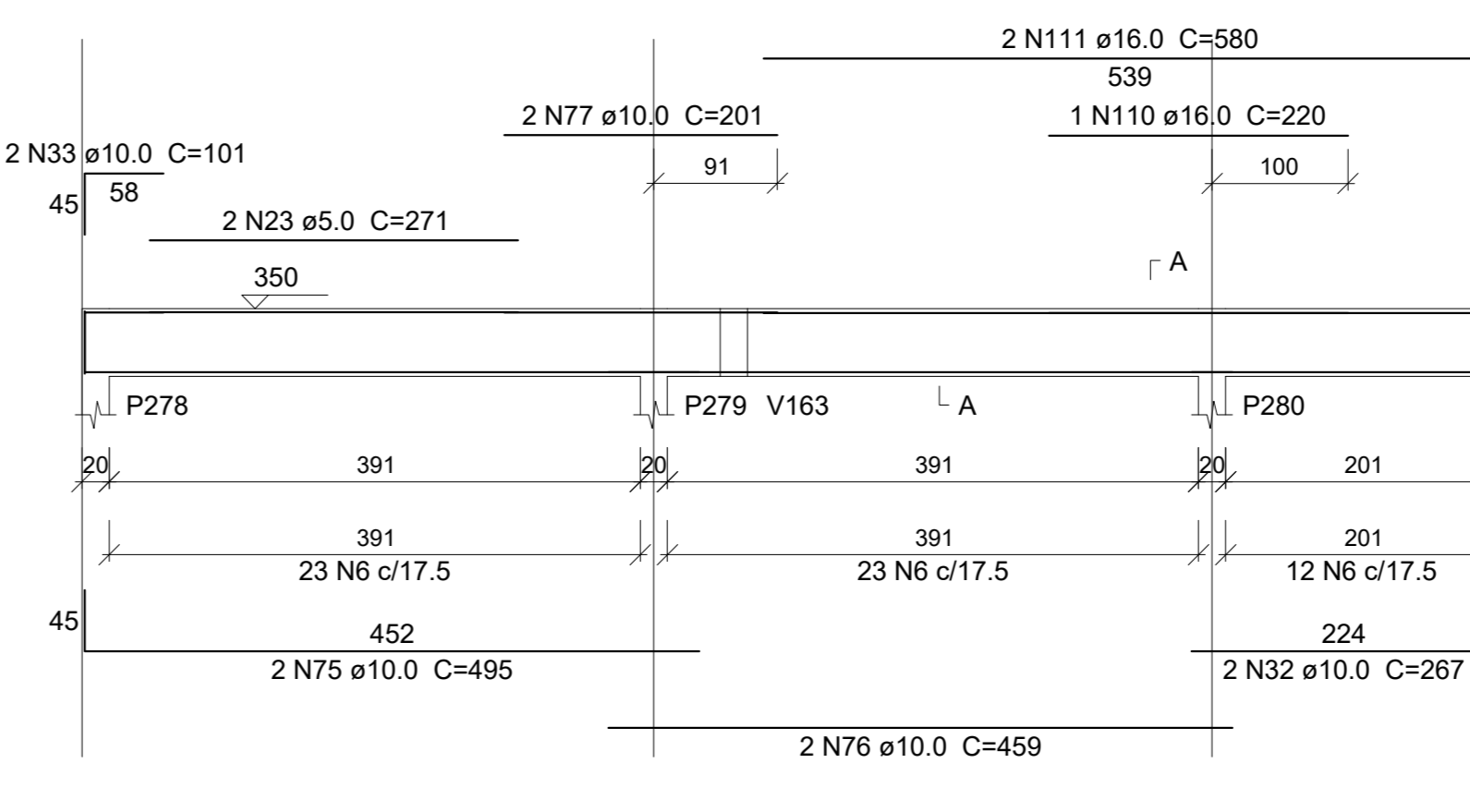
V64 ESCALA 1:50



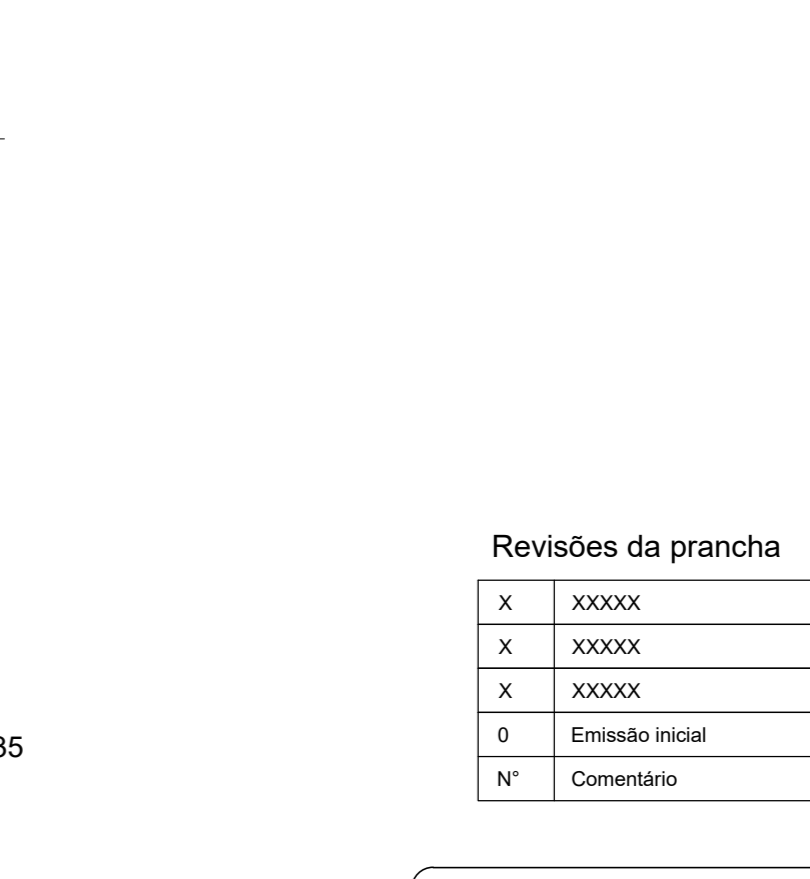
V47 ESCALA 1:50



V65 ESCALA 1:50



V65 ESCALA 1:50



Resumo do aço table with columns: AÇO, DIAM (mm), C.TOTAL (m), PESO (kg). Shows totals for CA50 and CA60.

Volume de concreto (C-30) = 18.96 m³
Área de forma = 202.63 m²

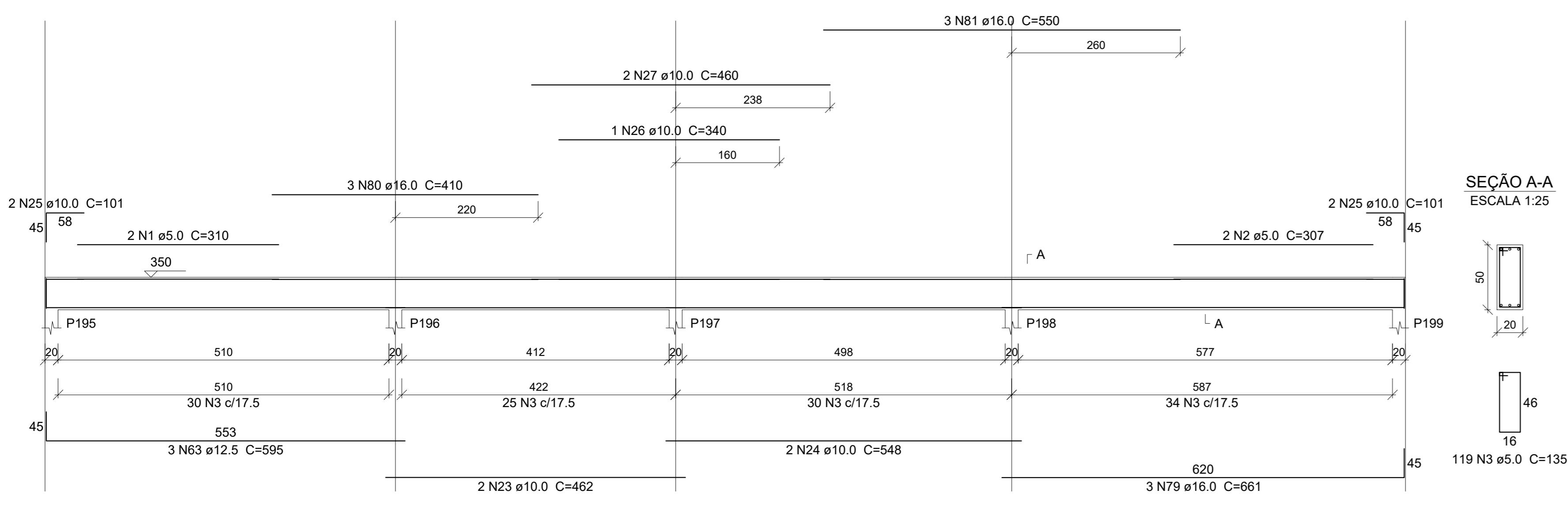
Table for 'Revisões da prancha' with columns for revision number, date, and initials.

ESTADO DO CEARÁ
PREFEITURA MUNICIPAL DE QUIXADÁ - CE
PRÉDIO PARA USO HOSPITALAR
Vigas do pavimento LAJE DE FORRO
Includes project details, scale, and date.

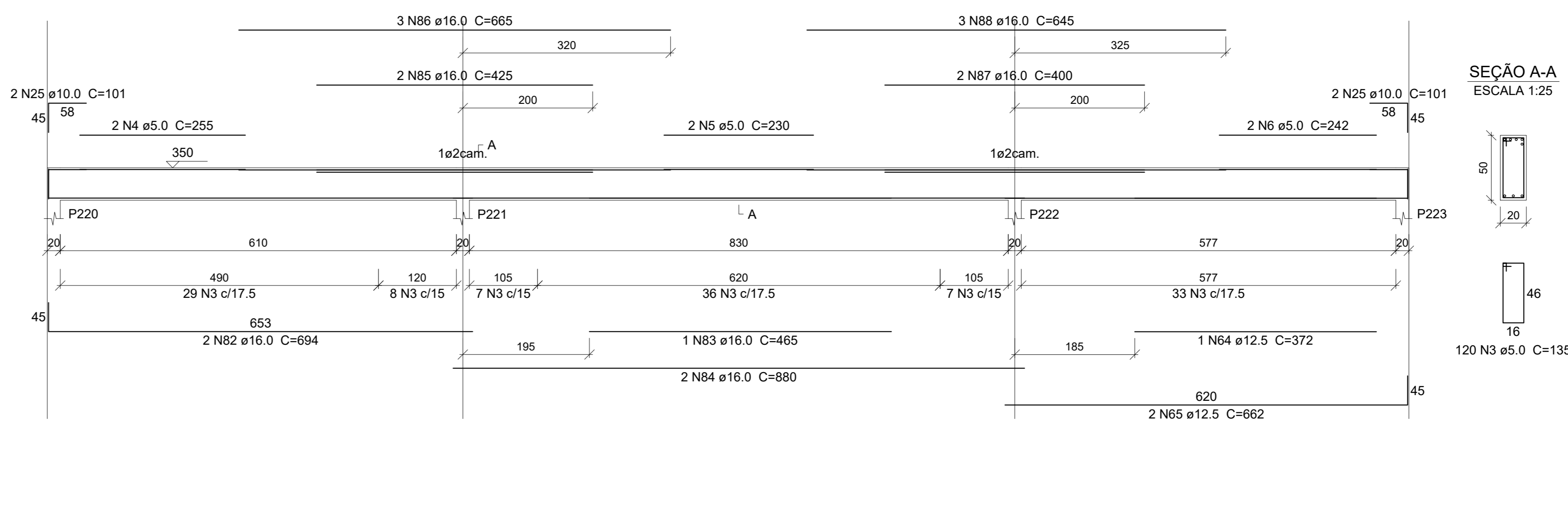
Handwritten signature and stamp of the project engineer.



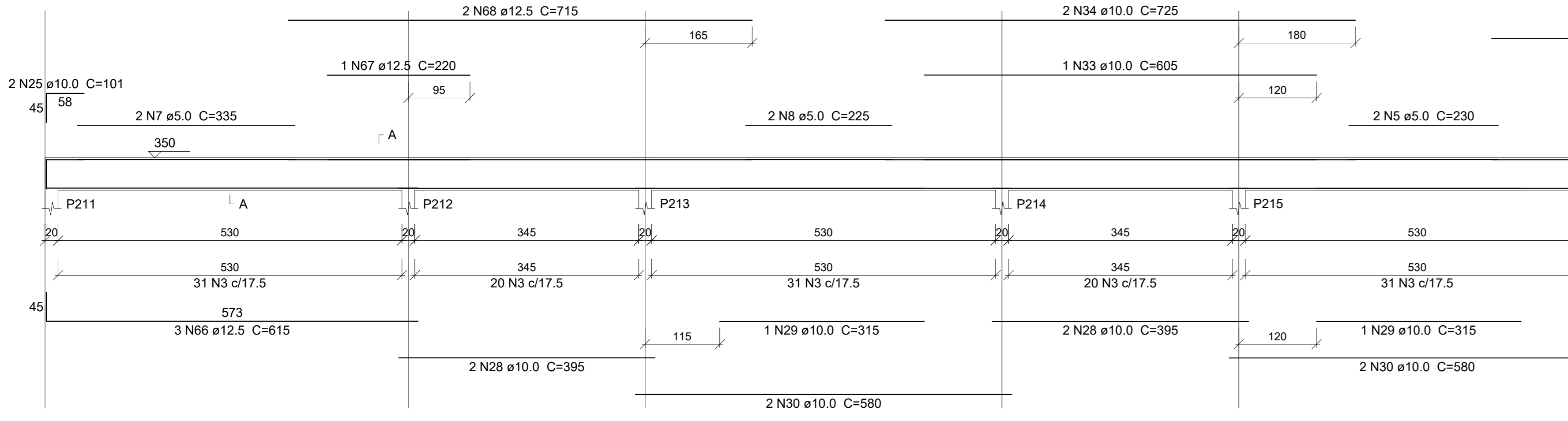
**V48**  
ESCALA 1:50



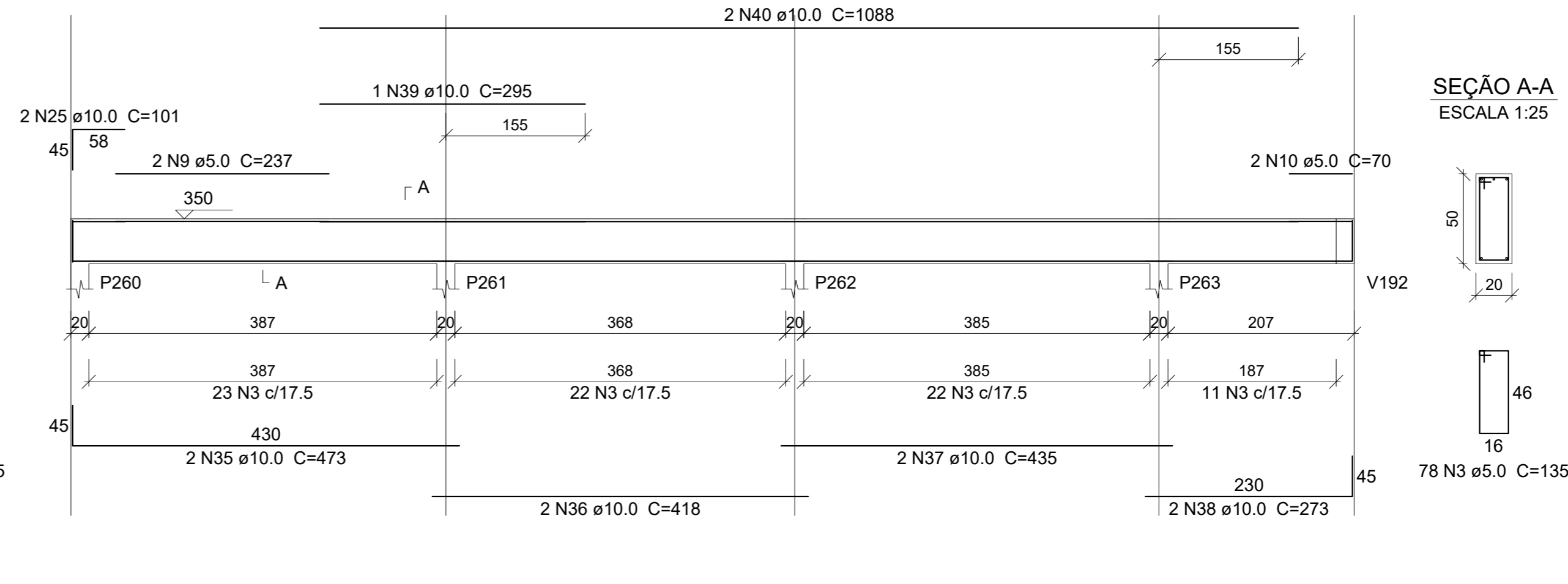
**V51**  
ESCALA 1:50



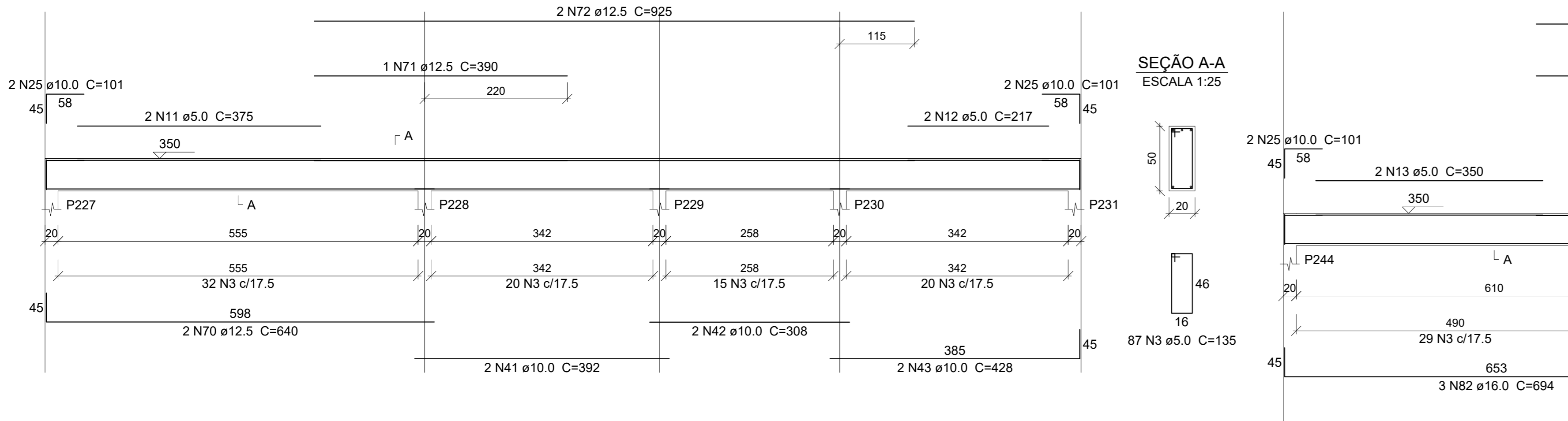
**V50**  
ESCALA 1:50



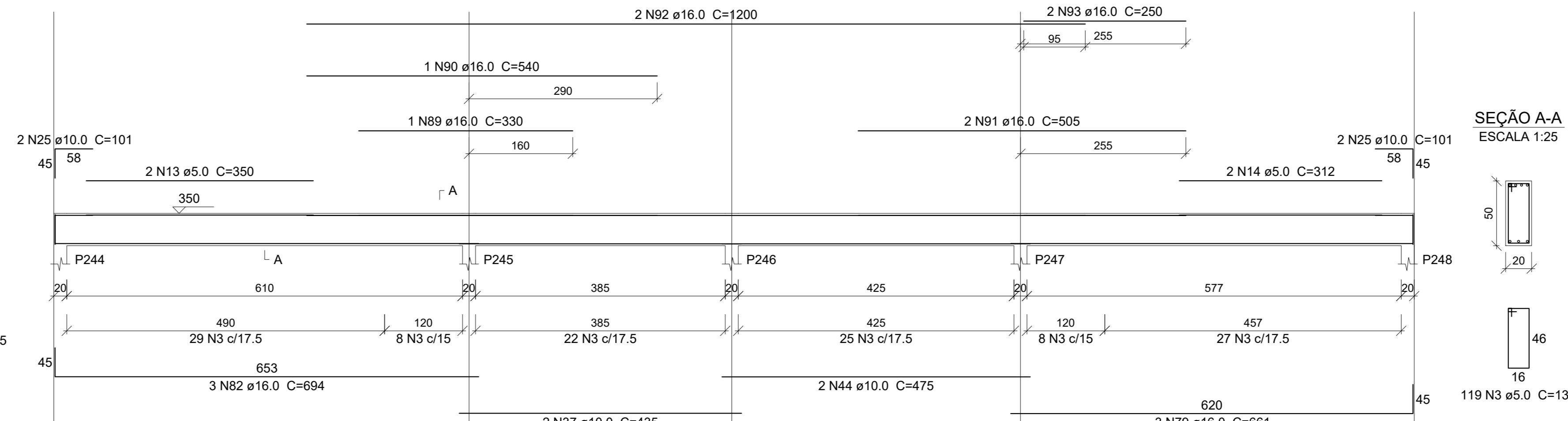
**V59**  
ESCALA 1:50



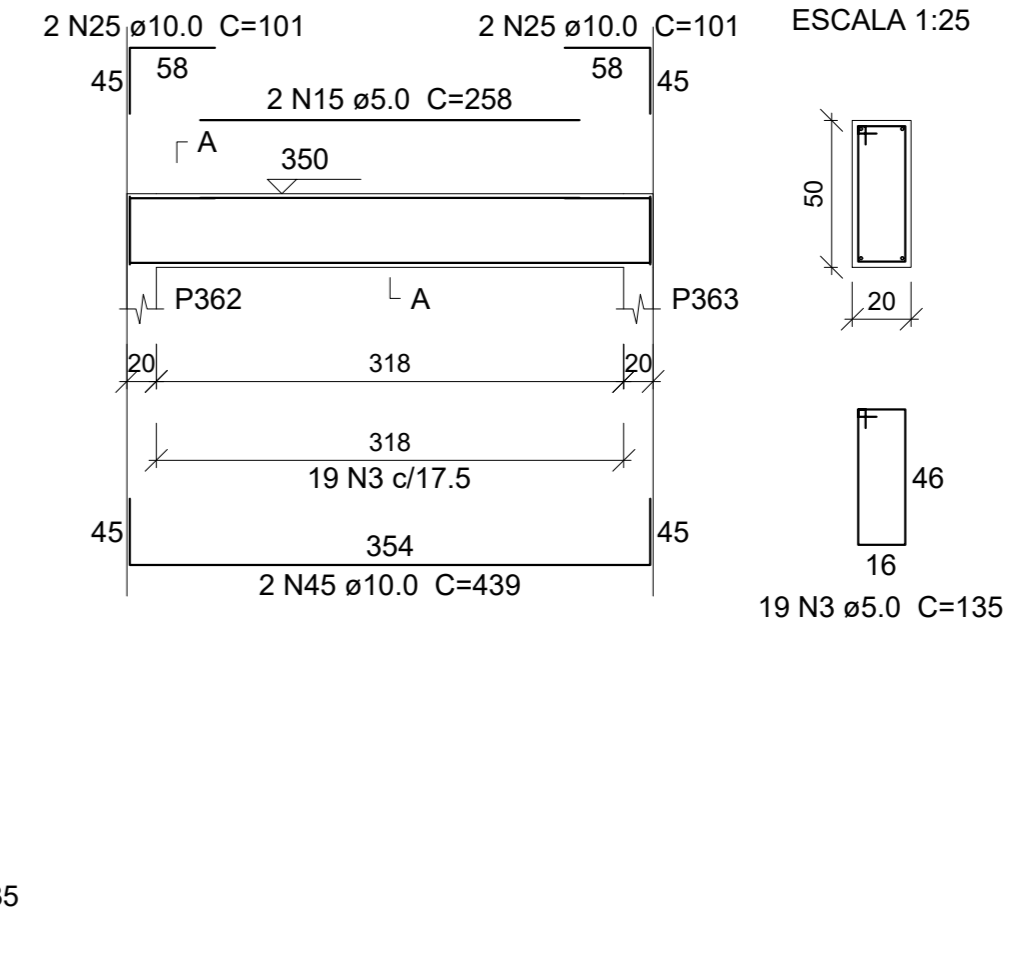
**V53**  
ESCALA 1:50



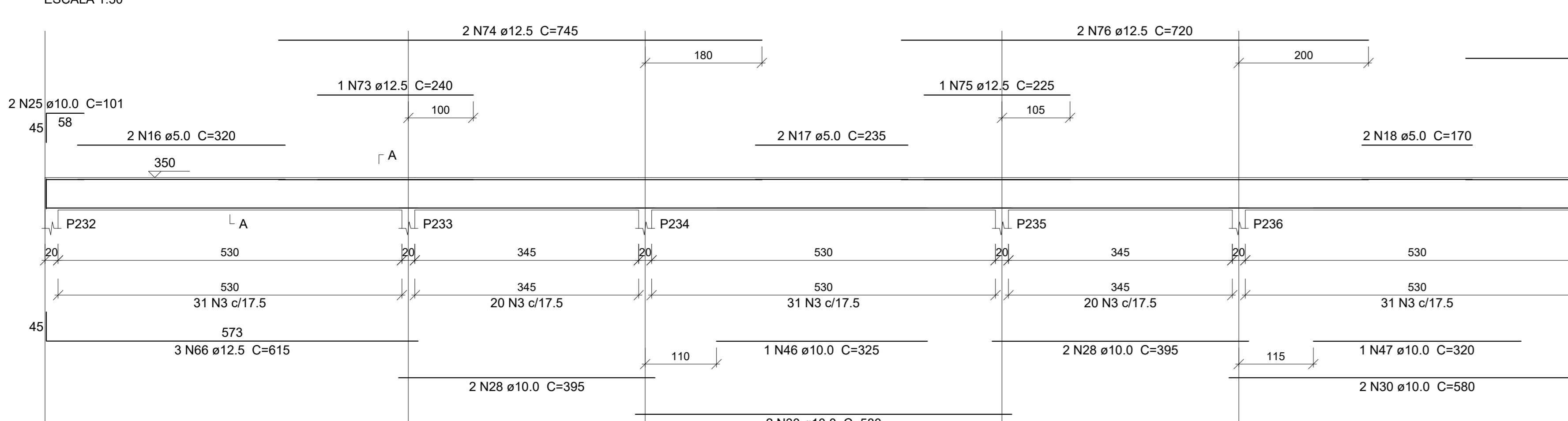
**V56**  
ESCALA 1:50



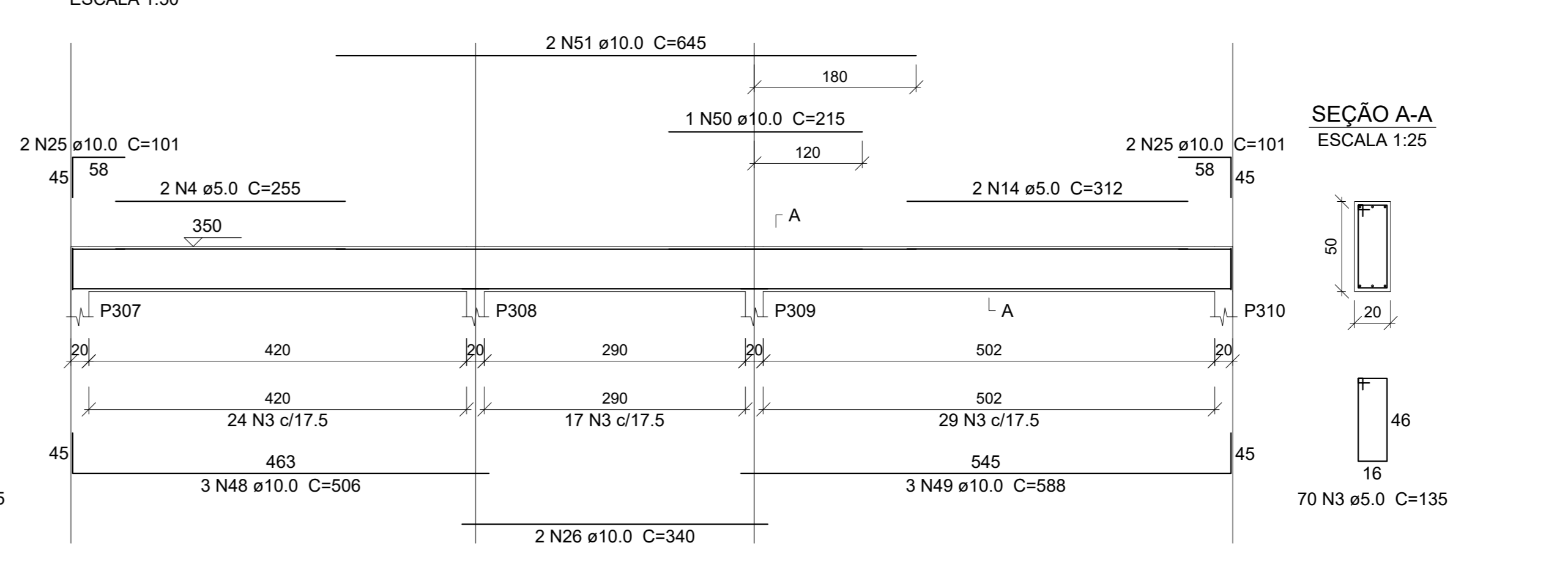
**V82**  
ESCALA 1:50



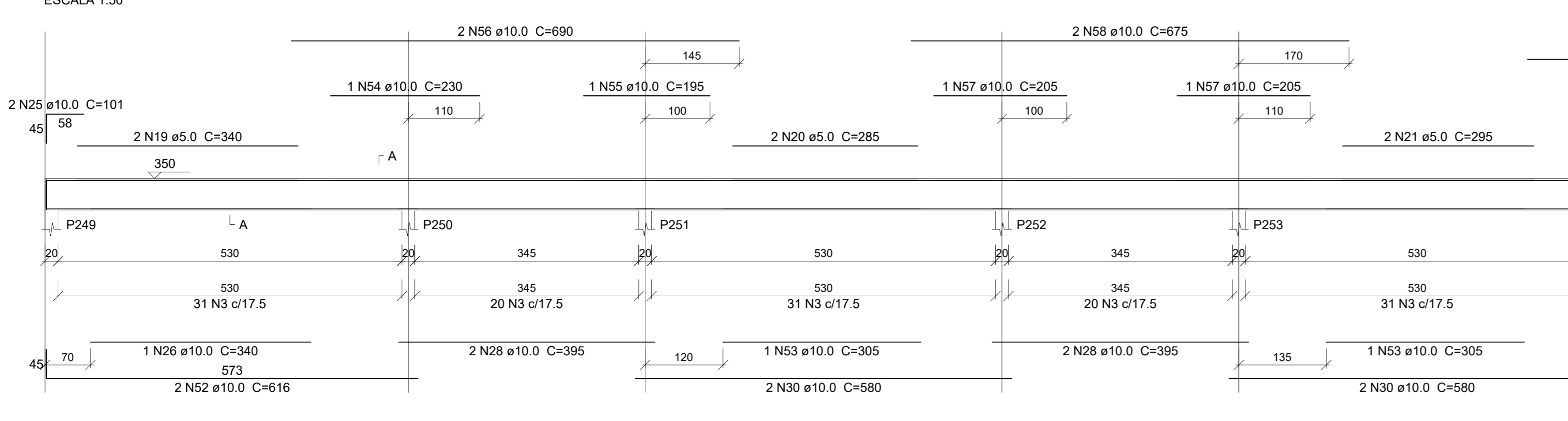
**V54**  
ESCALA 1:50



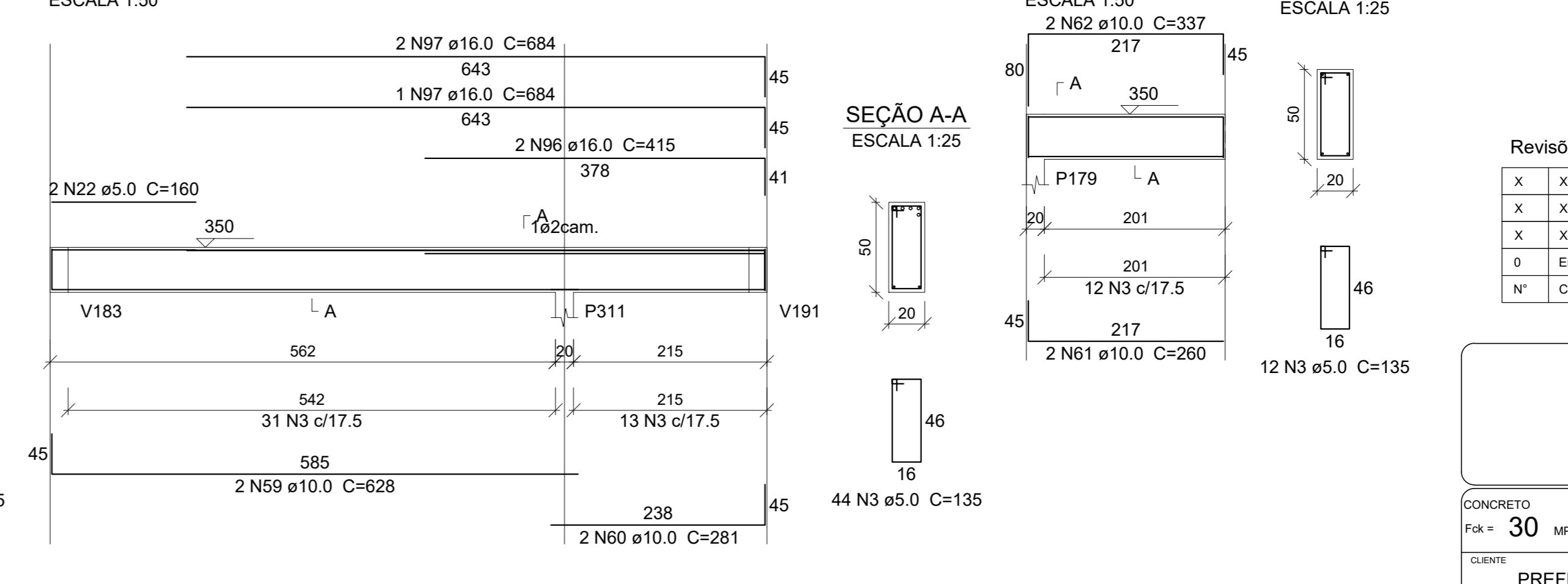
**V71**  
ESCALA 1:50



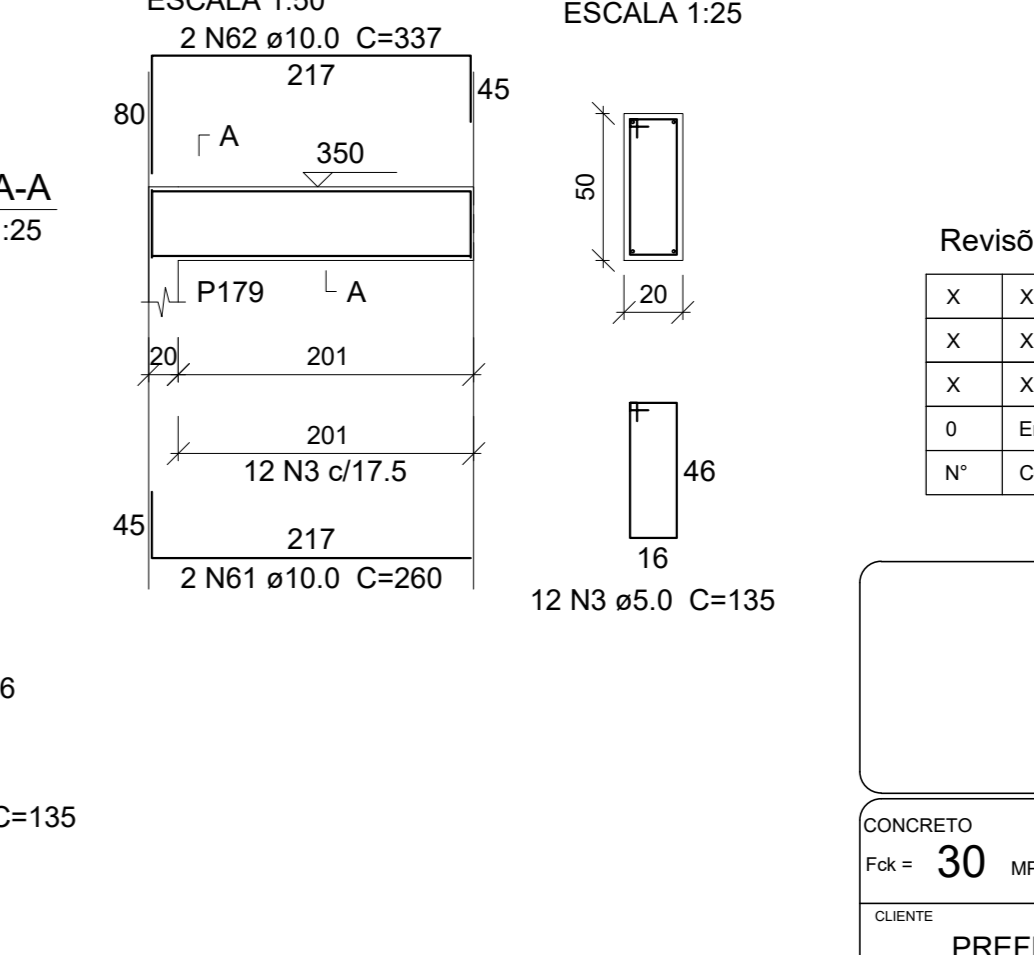
**V57**  
ESCALA 1:50



**V72**  
ESCALA 1:50



**V125**  
ESCALA 1:50



**Relação do aço**

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	2	310	620
	2	5.0	2	307	614
	3	5.0	1163	135	157005
	4	5.0	4	255	1020
	5	5.0	4	230	920
	6	5.0	2	242	484
	7	5.0	2	335	670
	8	5.0	2	225	450
	9	5.0	2	237	474
	10	5.0	2	70	140
	11	5.0	2	375	750
	12	5.0	2	217	434
	13	5.0	2	350	700
	14	5.0	4	312	1248
	15	5.0	2	258	516
	16	5.0	2	320	640
	17	5.0	2	235	470
	18	5.0	2	170	340
	19	5.0	2	340	680
	20	5.0	2	285	570
	21	5.0	2	295	590
	22	5.0	2	160	320
	23	10.0	2	462	924
	24	10.0	2	548	1096
	25	10.0	32	1011	3232
	26	10.0	4	340	1360
	27	10.0	2	460	920
	28	10.0	12	395	4740
	29	10.0	2	315	630
	30	10.0	12	580	6960
	31	10.0	6	387	2322
	32	10.0	6	267	1602
	33	10.0	1	605	605
	34	10.0	2	725	1450
	35	10.0	2	473	946
	36	10.0	2	418	836
	37	10.0	4	435	1740
	38	10.0	2	273	546
	39	10.0	1	295	295
	40	10.0	2	1088	2176
	41	10.0	2	392	784
	42	10.0	2	308	616
	43	10.0	2	428	856
	44	10.0	2	475	950
	45	10.0	2	439	878
	46	10.0	1	325	325
	47	10.0	1	320	320
	48	10.0	6	1518	9108
	49	10.0	3	588	1764
	50	10.0	1	215	215
	51	10.0	2	645	1290
	52	10.0	2	616	1232
	53	10.0	2	305	610
	54	10.0	1	230	230
	55	10.0	1	195	195
	56	10.0	2	890	1380
	57	10.0	2	205	410
	58	10.0	2	675	1350
	59	10.0	2	628	1256
	60	10.0	2	281	562
	61	10.0	2	260	520
	62	10.0	2	337	674
	63	12.5	3	595	1785
	64	12.5	1	372	372
	65	12.5	2	662	1324
	66	12.5	6	615	3690
	67	12.5	2	220	440
	68	12.5	2	715	1430
	69	12.5	2	768	1536
	70	12.5	2	745	1490
	71	12.5	1	990	990
	72	12.5	2	925	1850
	73	12.5	1	240	240
	74	12.5	2	745	1490
	75	12.5	1	225	225
	76	12.5	2	720	1440
	77	12.5	1	215	215
	78	12.5	2	808	1616
	79	16.0	6	661	3966
	80	16.0	3	410	1230
	81	16.0	3	550	1650
	82	16.0	5	694	3470
	83	16.0	1	455	455
	84	16.0	2	880	1760
	85	16.0	2	425	850
	86	16.0	3	665	1995
	87	16.0	2	400	800
	88	16.0	3	645	1935
	89	16.0	1	330	330
	90	16.0	1	540	540
	91	16.0	2	505	1010
	92	16.0	2	1200	2400
	93	16.0	2	250	500
	94	16.0	1	230	230
	95	16.0	2	712	1424
	96	16.0	2	415	830
	97	16.0	3	884	2652

**Resumo do aço**

AÇO	DIAM (mm)	C.TOTAL (m)	PESO (kg)
CA50	10.0	503.2	310.2
	12.5	193.3	186.1
	16.0	274.4	433
CA60	5.0	1696.6	261.5
PESO TOTAL (kg)			
CA50		929.4	
CA60		261.5	

Volume de concreto (C-30) = 19.82 m³  
Área de forma = 194.14 m²

Revisões da prancha

Nº	Descrição	Por	Data
X	XXXXX	XXXXX	XXXX/XX/XX
X	XXXXX	XXXXX	XXXX/XX/XX
X	XXXXX	XXXXX	XXXX/XX/XX
0	Emissão Inicial	--	--
Nº	Comentário	Autor	Data

**ESTADO DO CEARÁ**  
**PREFEITURA MUNICIPAL DE QUIXADÁ**

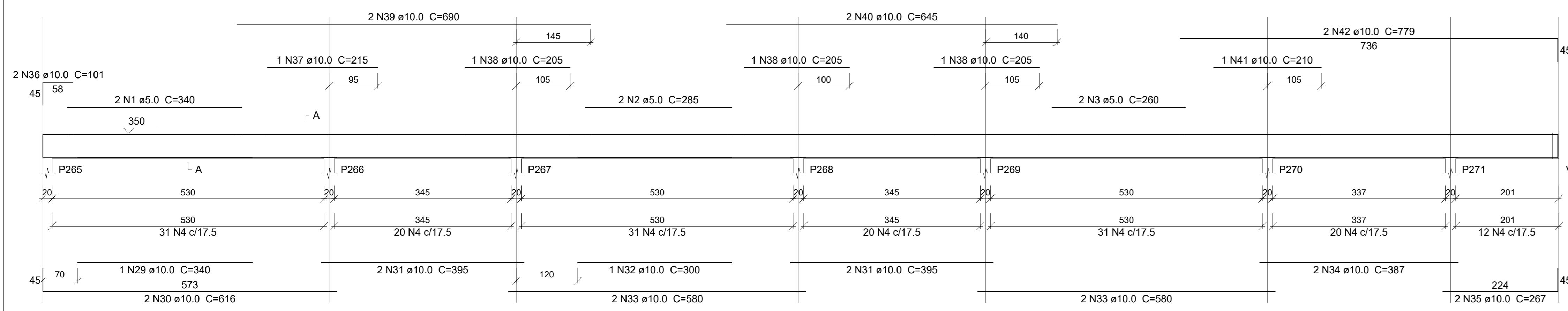
CONCRETO: Fc = 30 MPa  
CLIENTE: PREFEITURA MUNICIPAL DE QUIXADÁ - CE  
OBRA: PRÉDIO PARA USO HOSPITALAR  
TÍTULO: Vigas do pavimento LAJE DE FORRO

PROJETO Nº: 17  
REV. Nº: 00

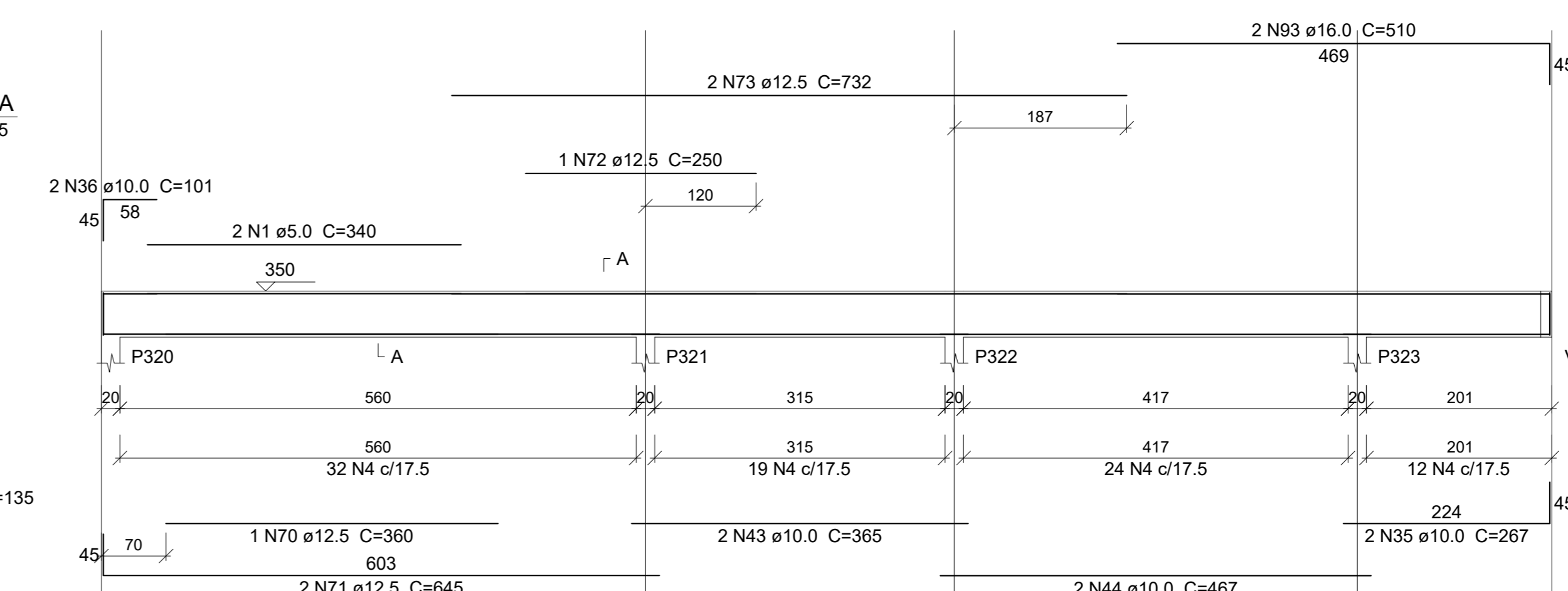
01/10/2024 1:50 01/10/2024 1:50 01/10/2024 1:50 01/10/2024 1:50



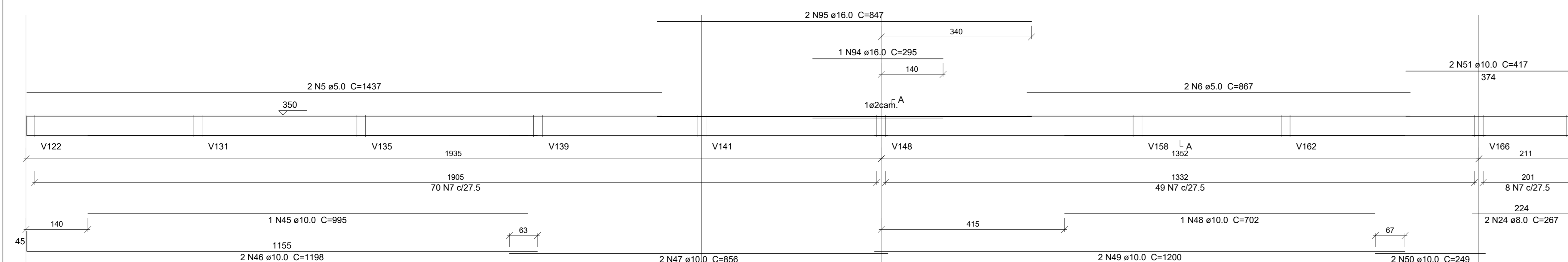
**V60**  
ESCALA 1:50



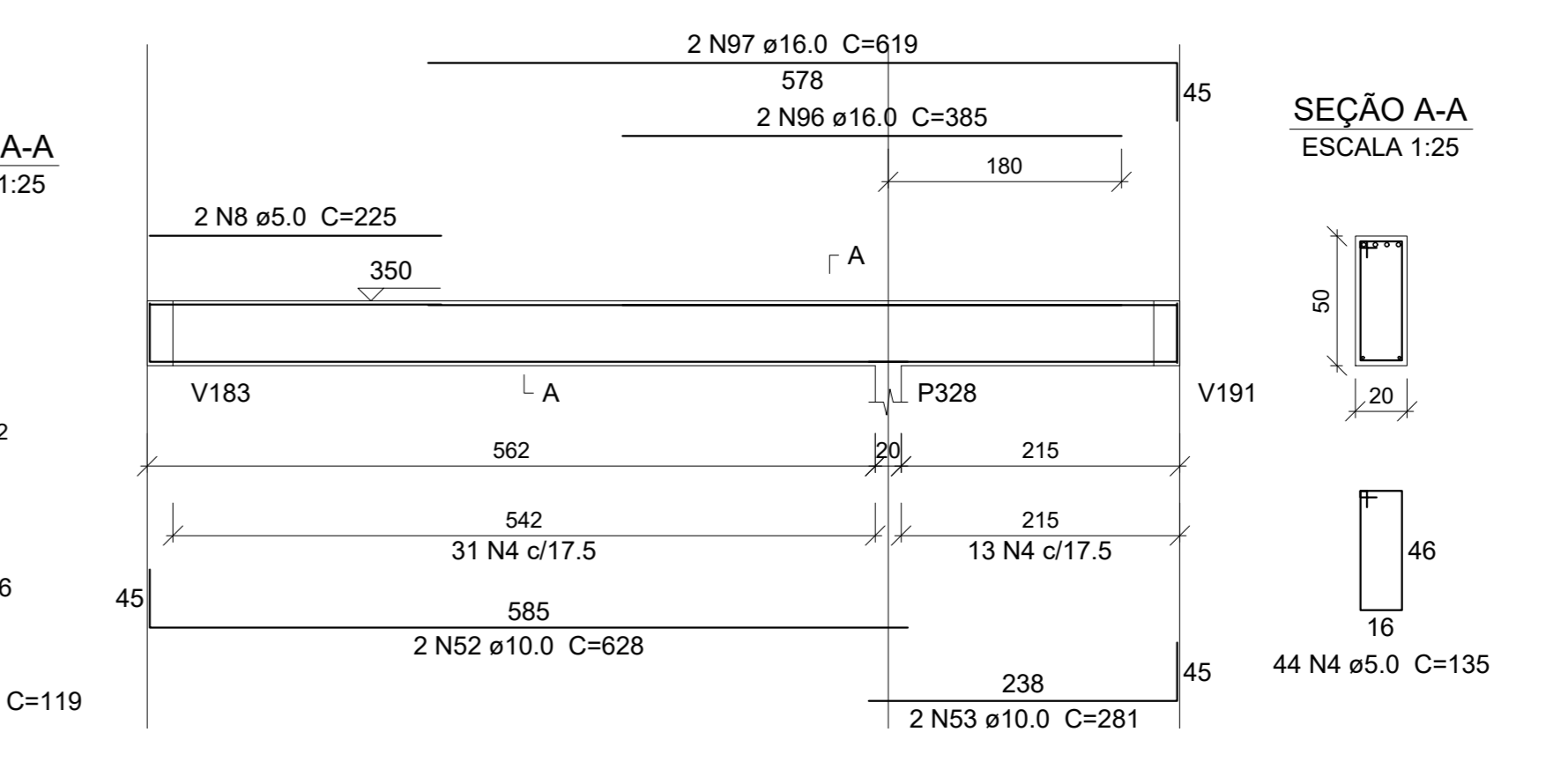
**V74**  
ESCALA 1:50



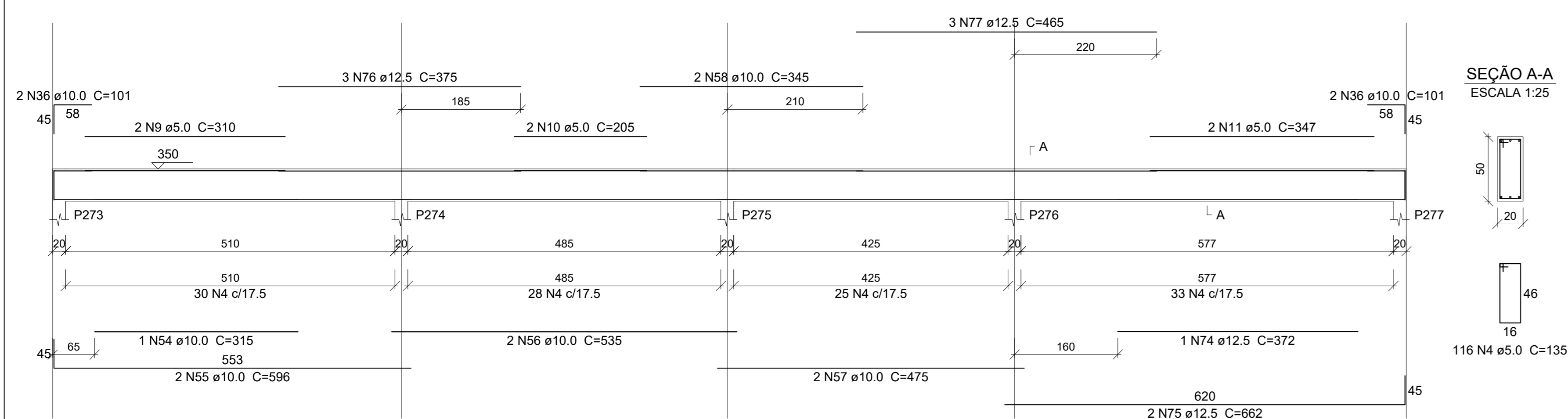
**V62**  
ESCALA 1:50



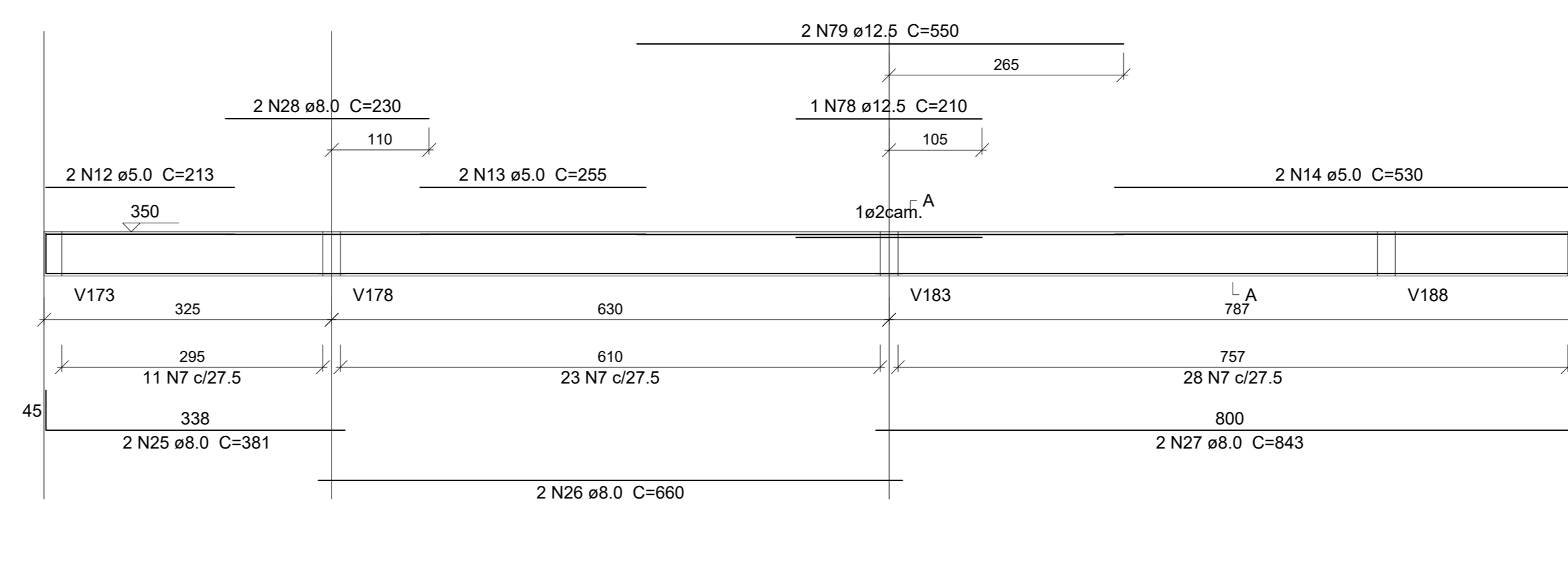
**V75**  
ESCALA 1:50



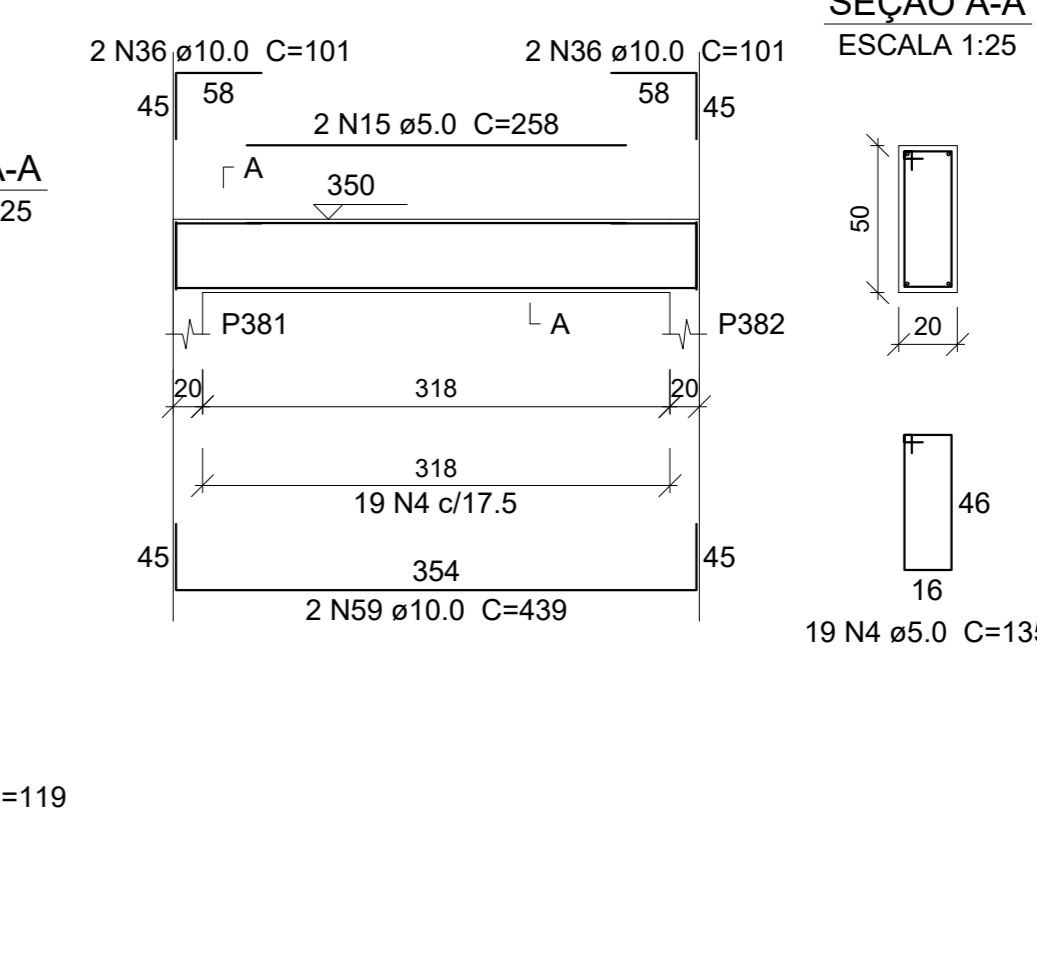
**V63**  
ESCALA 1:50



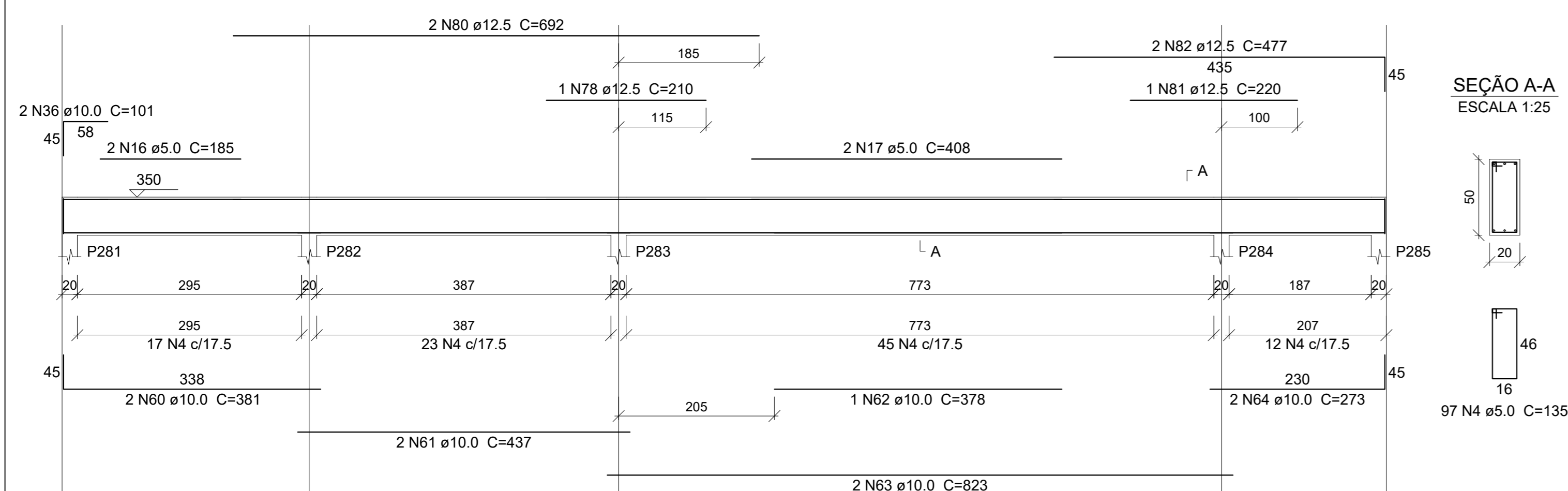
**V66**  
ESCALA 1:50



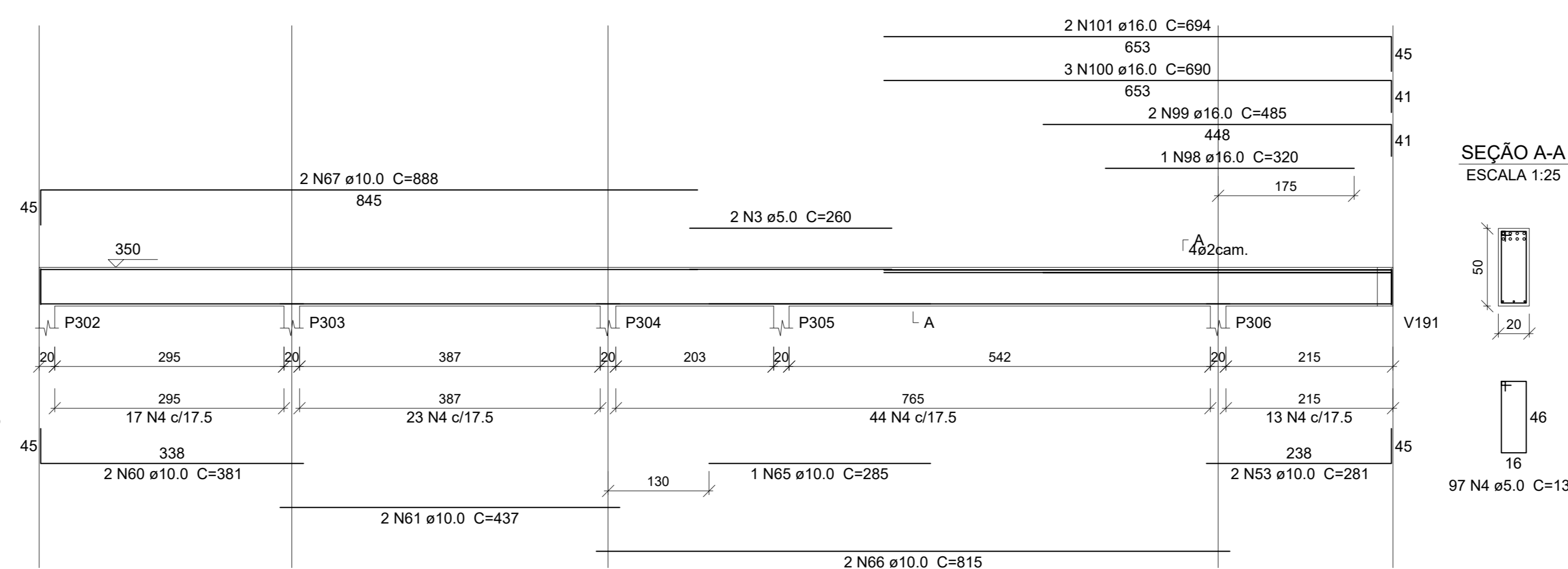
**V88**  
ESCALA 1:50



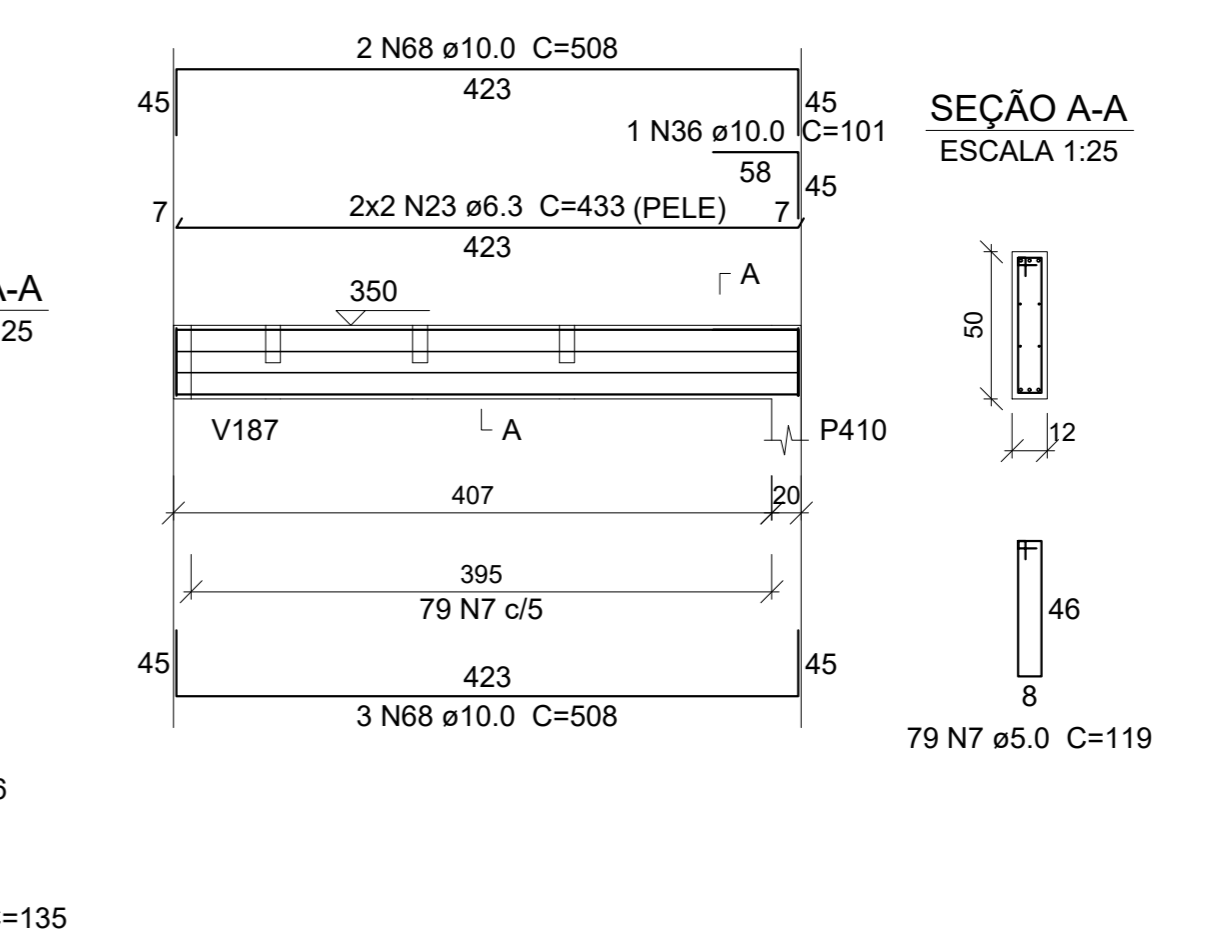
**V67**  
ESCALA 1:50



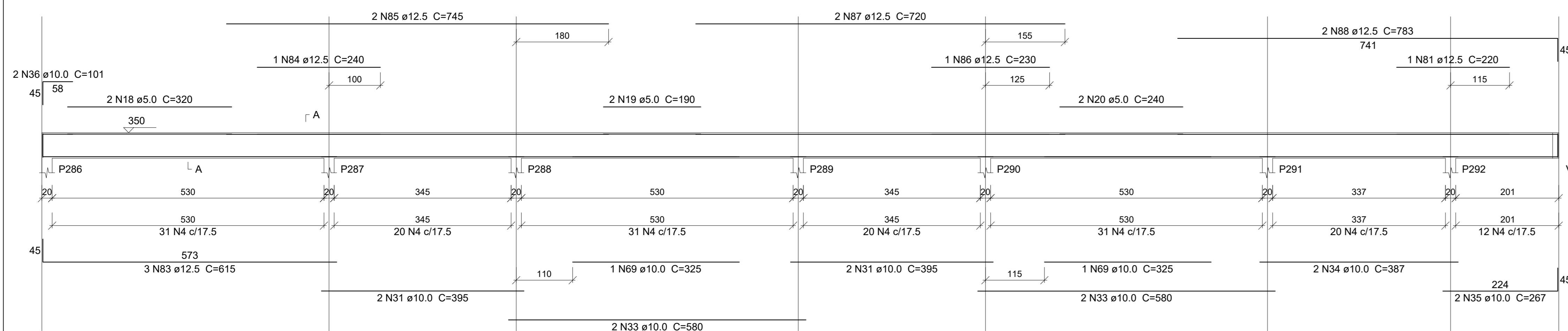
**V70**  
ESCALA 1:50



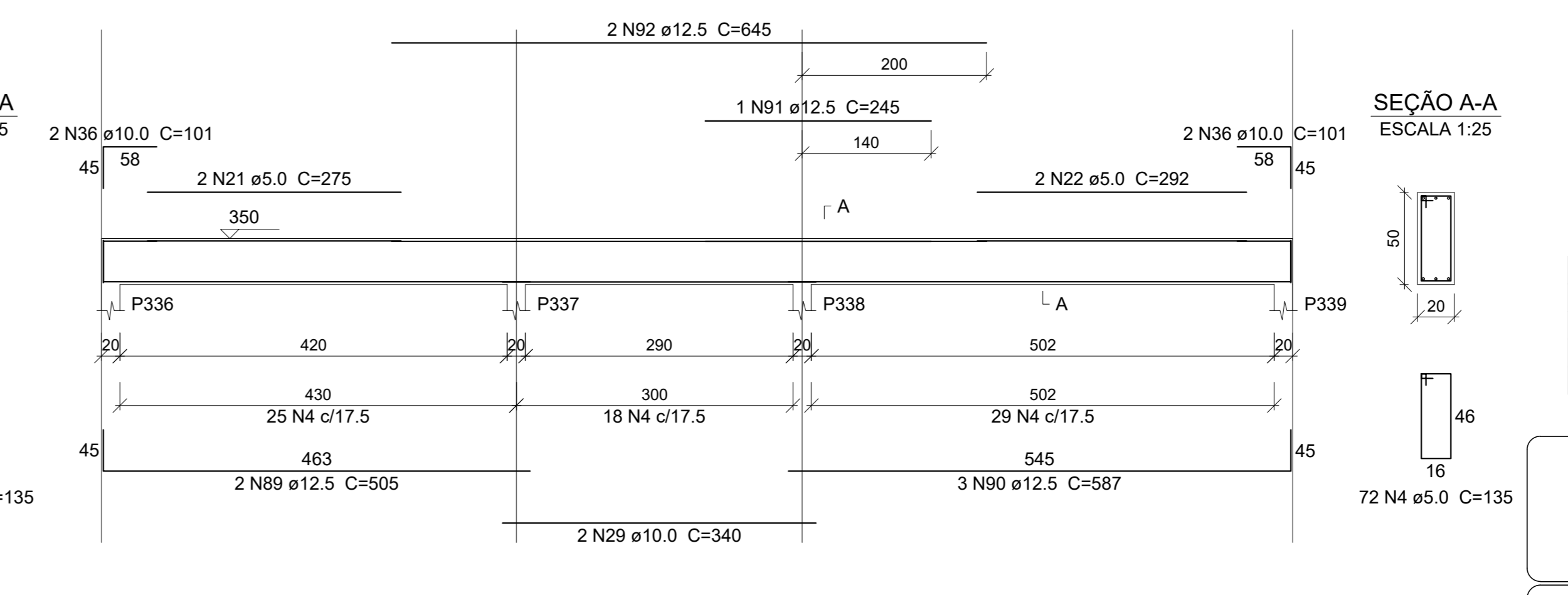
**V93**  
ESCALA 1:50



**V68**  
ESCALA 1:50



**V77**  
ESCALA 1:50



**Relação do aço**

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	4	340	1360
	2	5.0	2	285	570
	3	5.0	4	260	1040
	4	5.0	862	135	116370
	5	5.0	2	1437	2874
	6	5.0	2	867	1734
	7	5.0	268	119	31892
	8	5.0	2	225	450
	9	5.0	2	310	620
	10	5.0	2	205	410
	11	5.0	2	347	694
	12	5.0	2	213	426
	13	5.0	2	256	510
	14	5.0	2	530	1060
	15	5.0	2	258	516
	16	5.0	2	165	330
	17	5.0	2	408	816
	18	5.0	2	320	640
	19	5.0	2	292	584
	20	5.0	2	240	480
	21	5.0	2	275	550
	22	5.0	2	292	584
	23	6.3	4	433	1732
	24	8.0	2	267	534
	25	8.0	2	381	762
	26	8.0	2	660	1320
	27	8.0	2	843	1686
	28	8.0	2	230	460
	29	10.0	3	340	1020
	30	10.0	2	616	1232
	31	10.0	8	395	3160
	32	10.0	4	300	1200
	33	10.0	8	580	4640
	34	10.0	4	387	1548
	35	10.0	6	267	1602
	36	10.0	21	101	2121
	37	10.0	1	215	215
	38	10.0	3	615	1845
	39	10.0	2	690	1380
	40	10.0	2	645	1290
	41	10.0	2	210	420
	42	10.0	2	779	1558
	43	10.0	2	365	730
	44	10.0	2	467	934
	45	10.0	2	665	1330
	46	10.0	2	1198	2396
	47	10.0	2	856	1712
	48	10.0	2	702	1404
	49	10.0	2	1200	2400
	50	10.0	2	249	498
	51	10.0	2	417	834
	52	10.0	2	628	1256
	53	10.0	4	281	1124
	54	10.0	1	315	315
	55	10.0	2	596	1192
	56	10.0	2	535	1070
	57	10.0	2	475	950
	58	10.0	2	345	690
	59	10.0	2	439	878
	60	10.0	4	381	1524
	61	10.0	4	437	1748
	62	10.0	1	378	378
	63	10.0	2	823	1646
	64	10.0	2	546	1092
	65	10.0	1	285	285
	66	10.0	2	815	1630
	67	10.0	2	986	1972
	68	10.0	5	508	2540
	69	10.0	2	325	650
	70	12.5	1	360	360
	71	12.5	2	645	1290
	72	12.5	1	250	250
	73	12.5	2	732	1464
	74	12.5	1	372	372
	75	12.5	2	662	1324
	76	12.5	3	375	1125
	77	12.5	3	465	1395
	78	12.5	2	210	420
	79	12.5	2	550	1100
	80	12.5	2	662	1324
	81	12.5	2	220	440
	82	12.5	2	477	954
	83	12.5	3	615	1845
	84	12.5	1	240	240
	85	12.5	2	745	1490
	86	12.5	1	230	230
	87	12.5	2	720	1440
	88	12.5	2	783	1566
	89	12.5	2	645	1290
	90	12.5	3	587	1761
	91	12.5	1	245	245
	92	12.5	2	645	1290
	93	16.0	2	510	1020
	94	16.0	1	295	295
	95	16.0	2	847	1694
	96	16.0	2	385	770
	97	16.0	2	619	1238
	98	16.0	1	320	320
	99	16.0	2	485	970
	100	16.0	3	690	2070
	101	16.0	2	694	1388

**Resumo do aço**

AÇO	DIAM (mm)	C.TOTAL (m)	PESO (kg)
CA50	6.3	17.4	4.2
	8.0	17.7	18.8
	10.0	522.9	322.4
	12.5	230	221.5
	16.0	97.7	154.1
CA60	5.0	1643.5	253.3
<b>PESO TOTAL (kg)</b>			
CA50		721.1	
CA60		253.3	

Volume de concreto (C-30) = 18.05 m³  
Área de forma = 203.16 m²

Revisões da prancha

Nº	Descrição	Por	Data
X	XXXXX	XXXXXX	XXXX/XX/XX
X	XXXXX	XXXXXX	XXXX/XX/XX
X	XXXXX	XXXXXX	XXXX/XX/XX
X	XXXXX	XXXXXX	XXXX/XX/XX
0	Emissão inicial		

**ESTADO DO CEARÁ**  
**PREFEITURA MUNICIPAL DE QUIXADÁ**

CONCRETO: FA = 30 MPa

CLIENTE: PREFEITURA MUNICIPAL DE QUIXADÁ - CE

OBRA: PRÉDIO PARA USO HOSPITALAR

TÍTULO: Vigas do pavimento LAJE DE FORRO

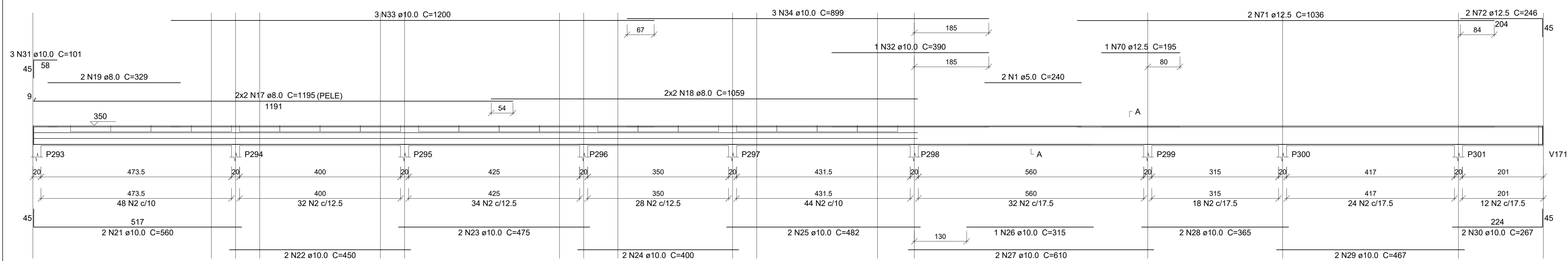
18

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01/10/2024

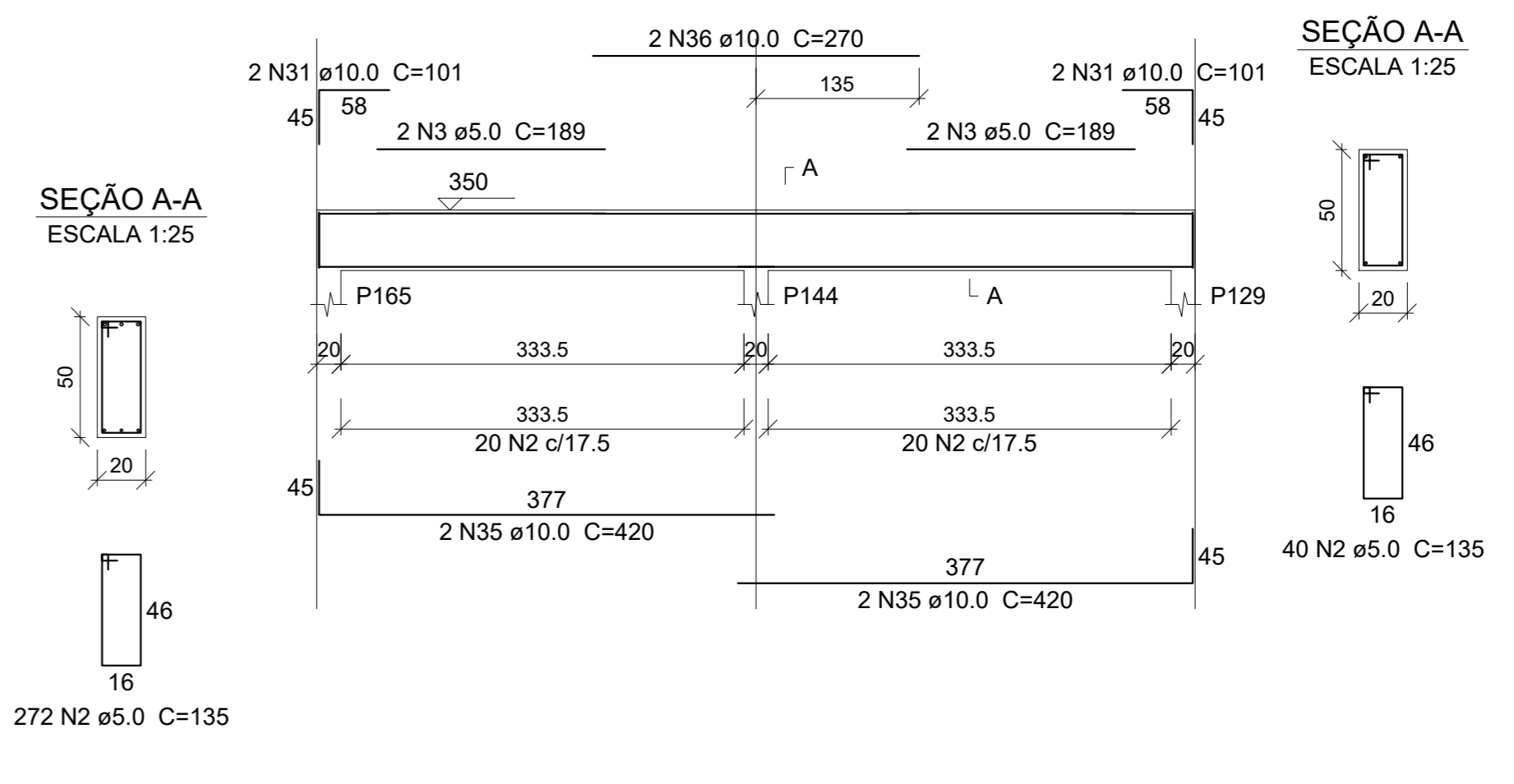


V69 ESCALA 1:50

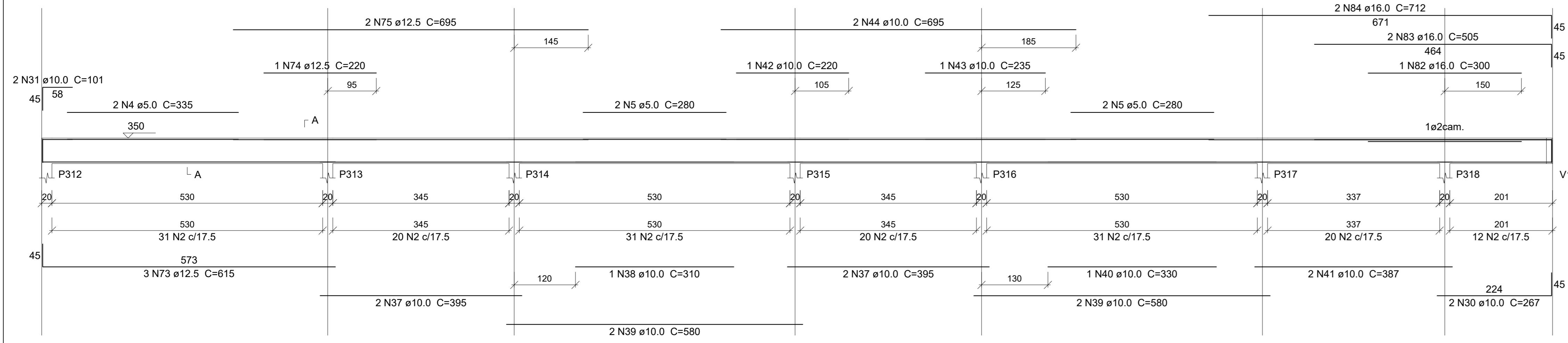


Aviso 06 - Viga com apoios sobrestpos. Ajustar detalhamento de acordo com a forma.

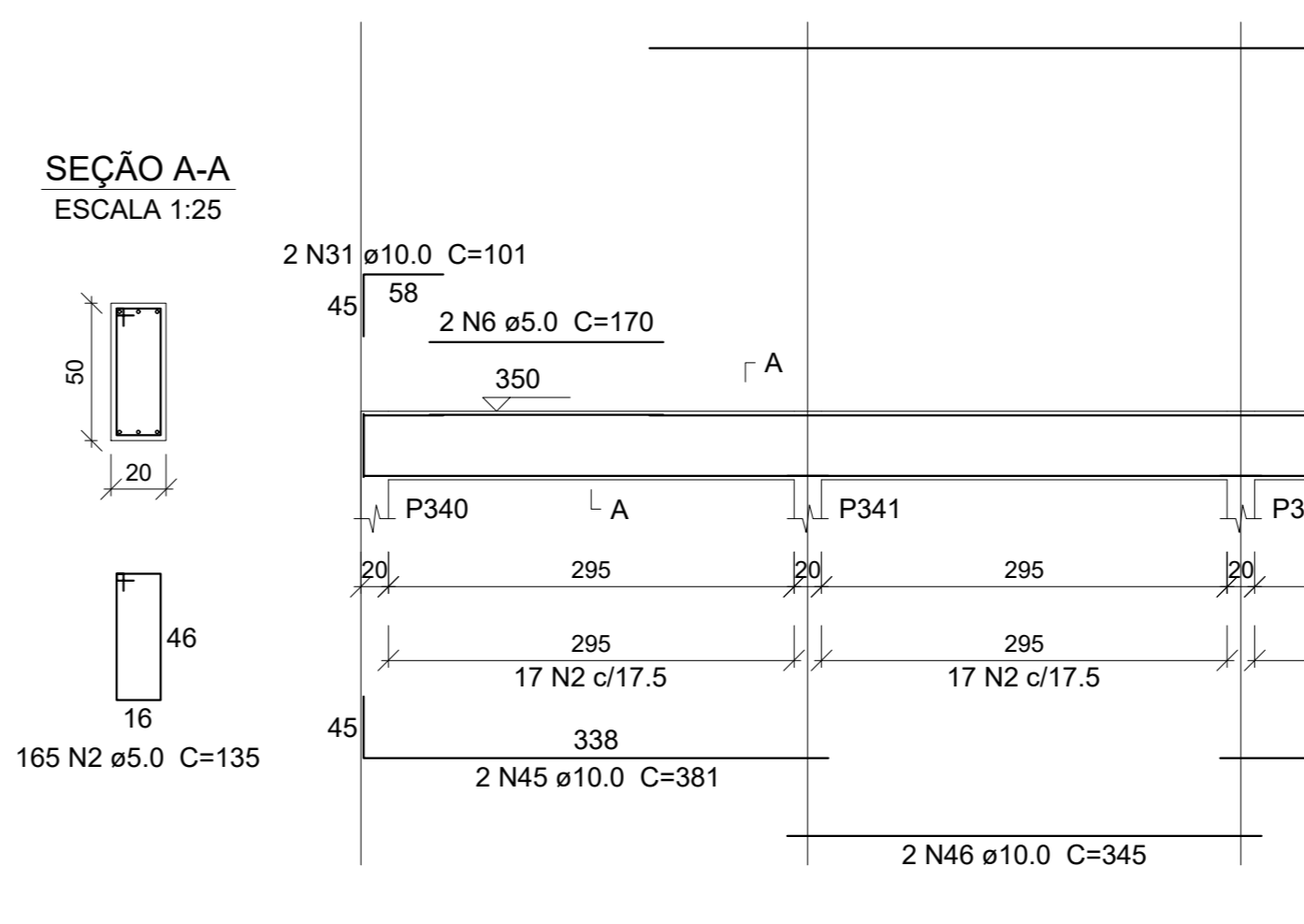
V102 ESCALA 1:50



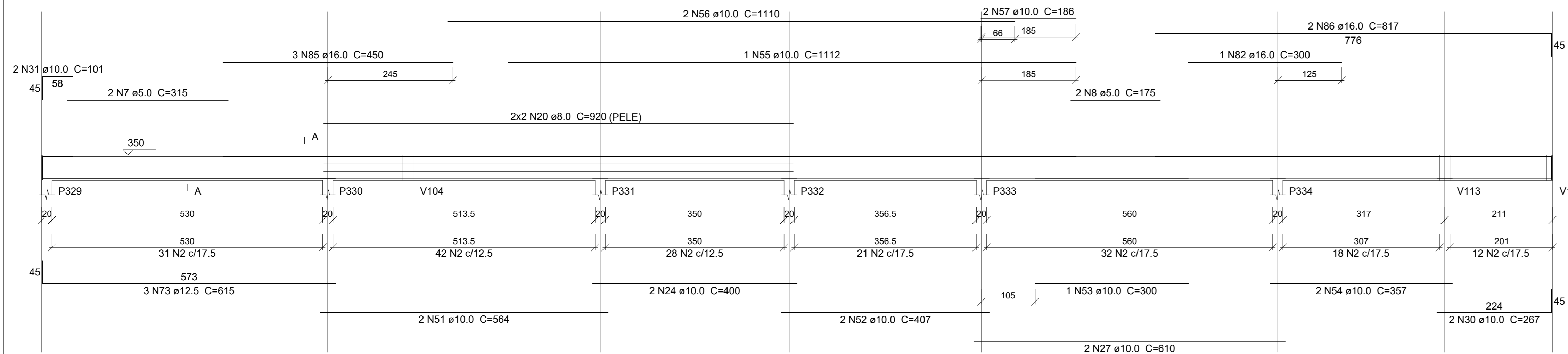
V73 ESCALA 1:50



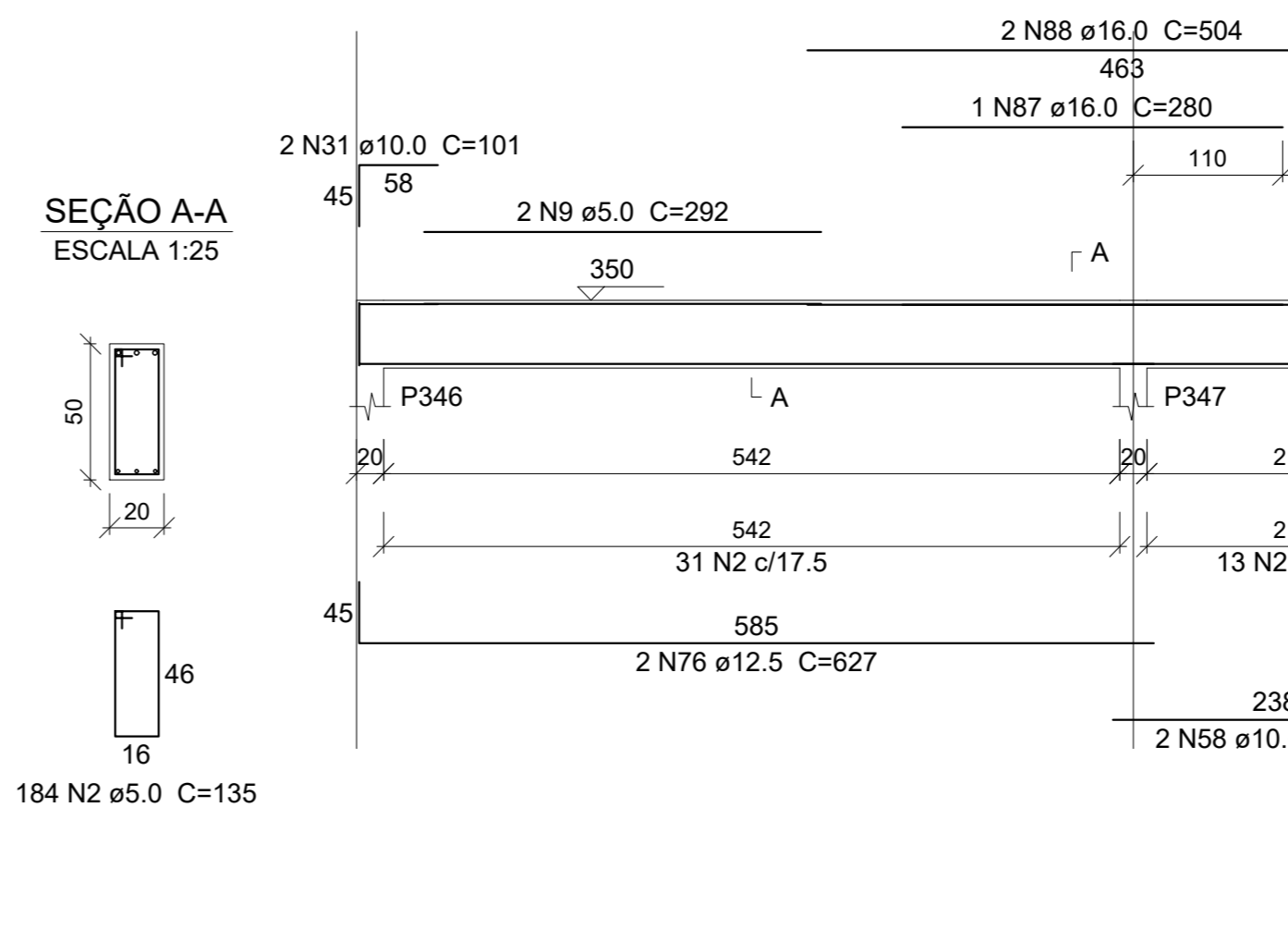
V78 ESCALA 1:50



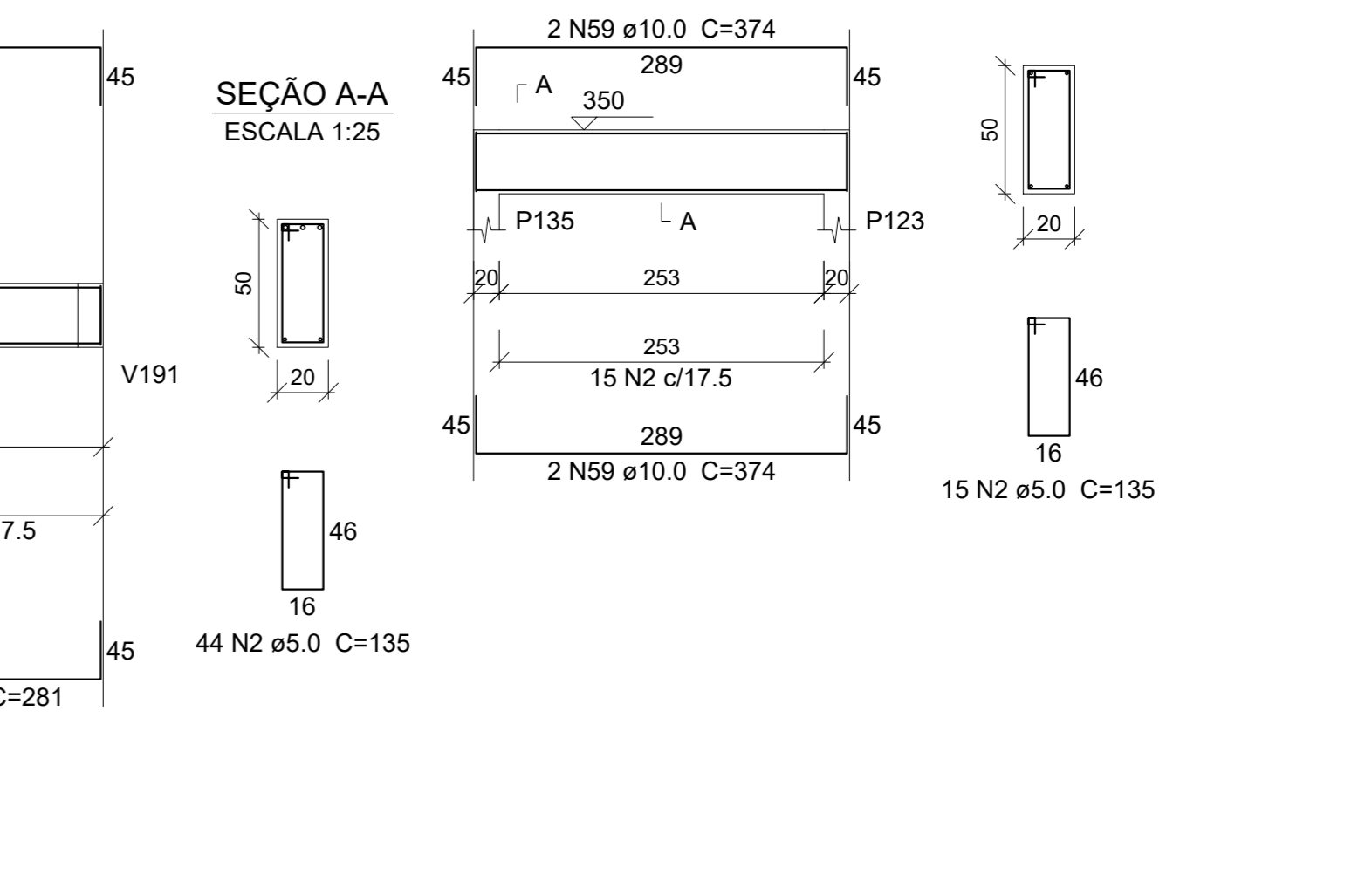
V76 ESCALA 1:50



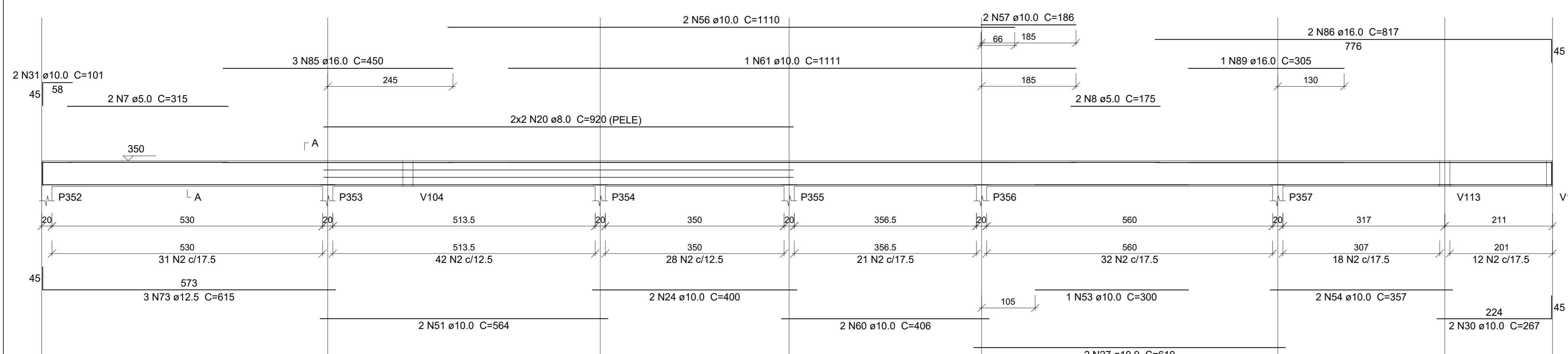
V79 ESCALA 1:50



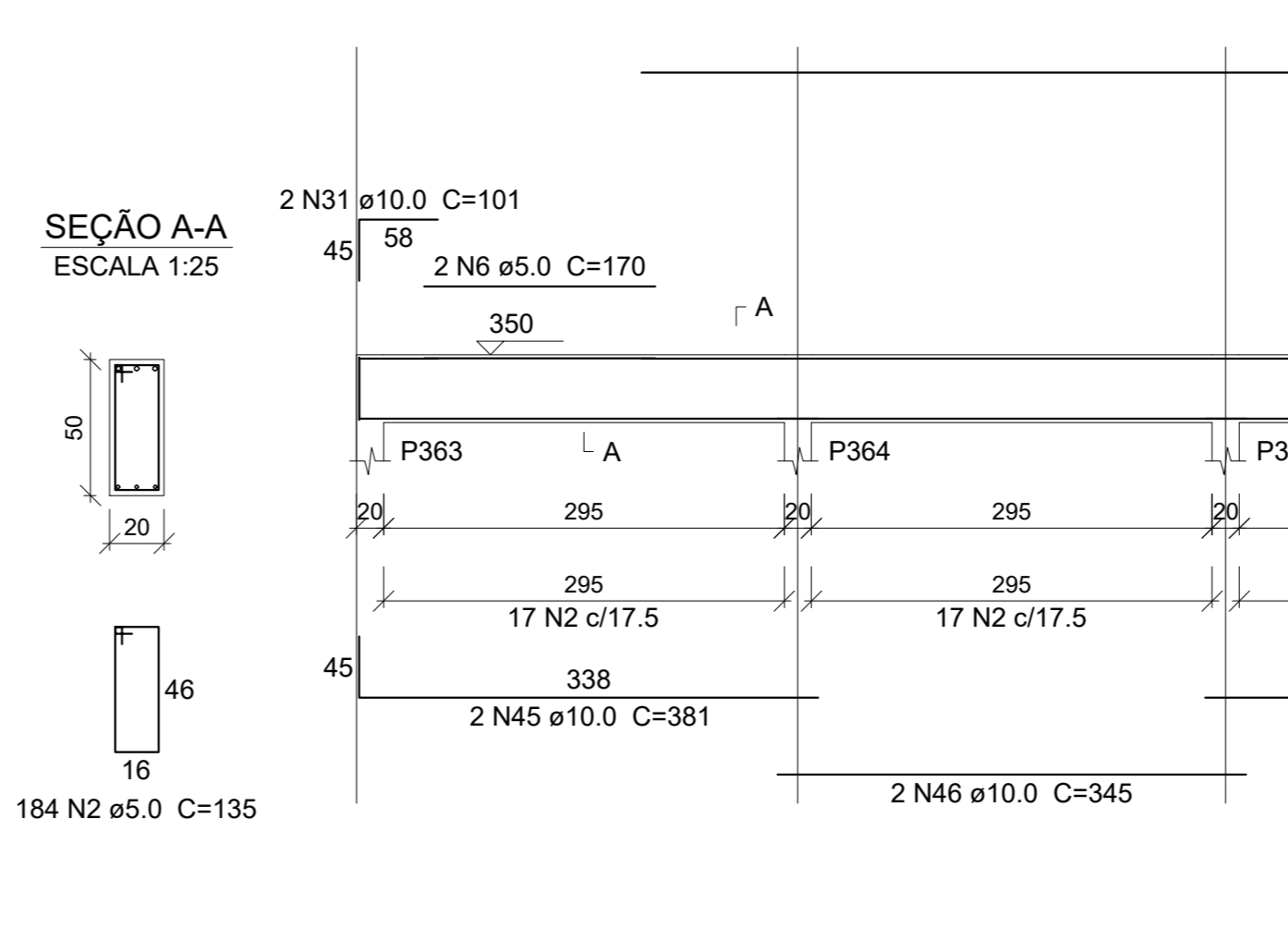
V114 ESCALA 1:50



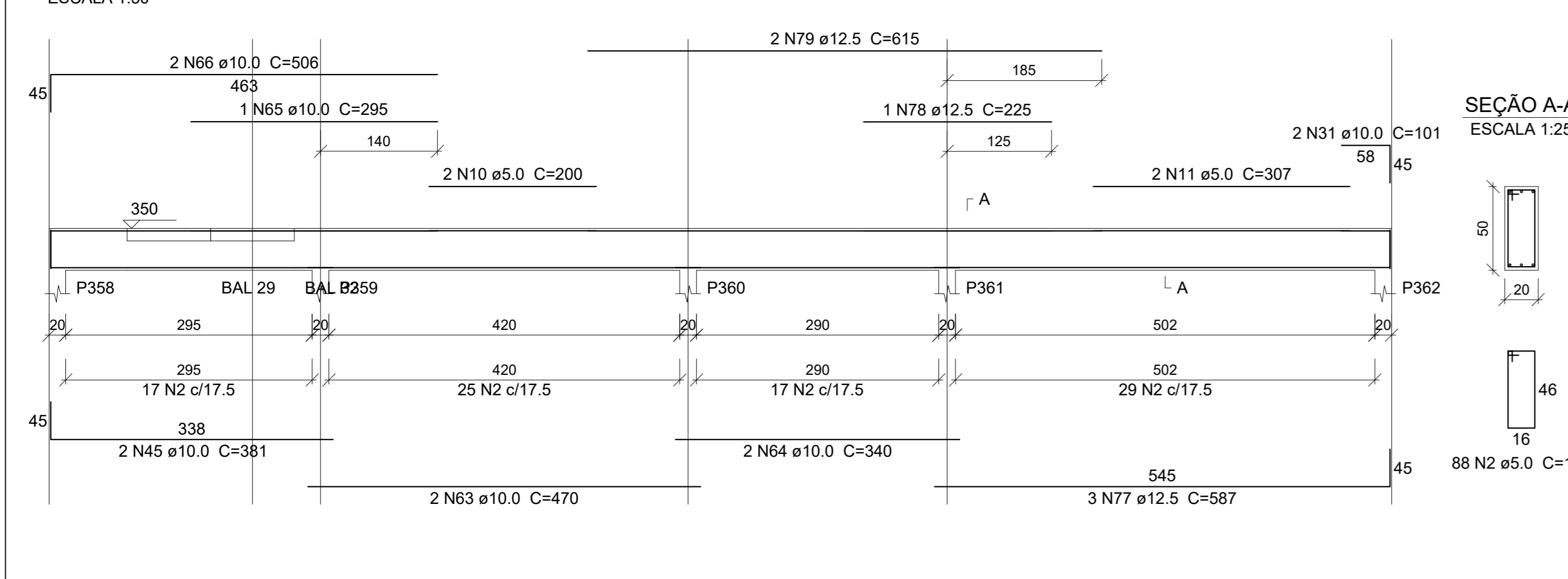
V80 ESCALA 1:50



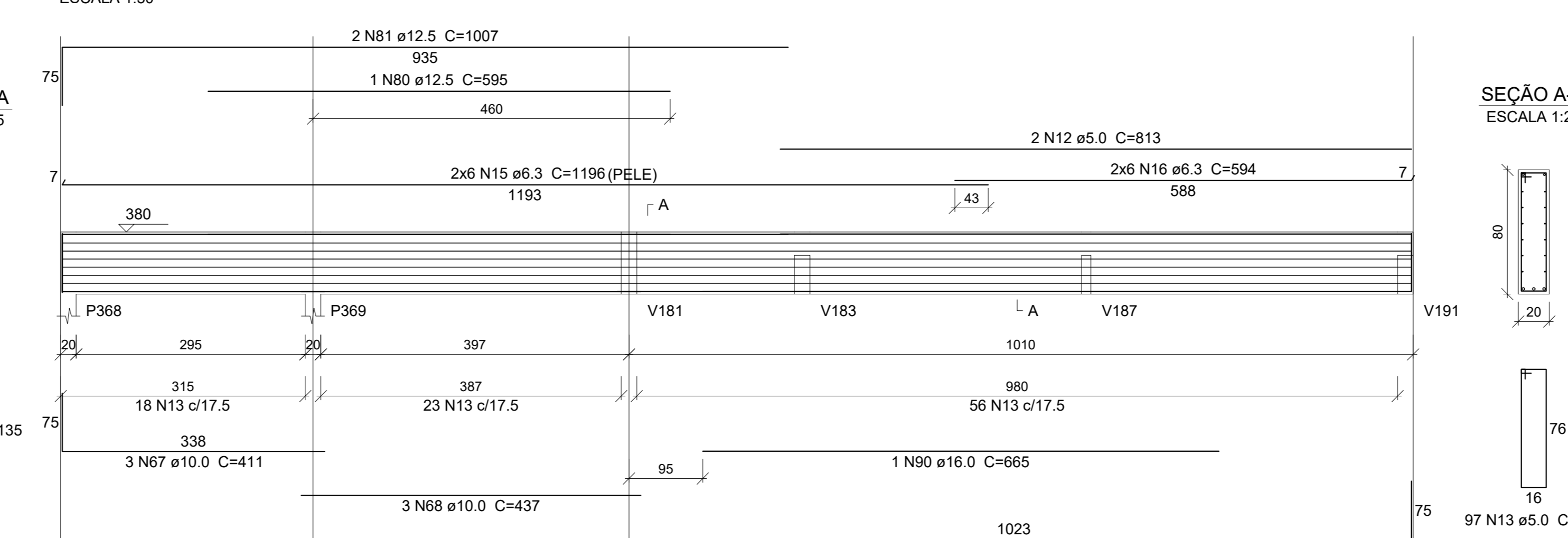
V83 ESCALA 1:50



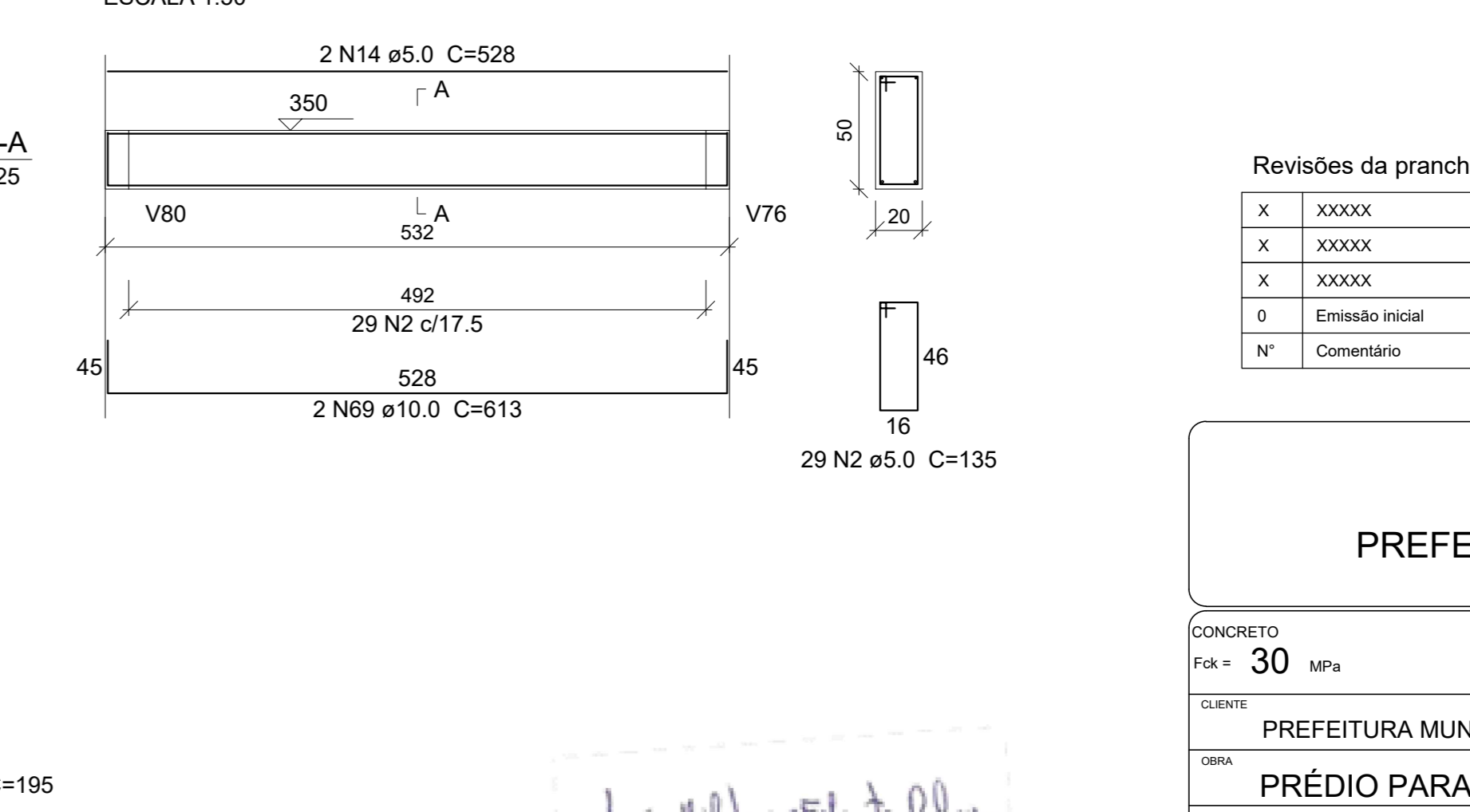
V81 ESCALA 1:50



V84 ESCALA 1:50



V104 ESCALA 1:50



Relação do aço

Table with columns: AÇO, N, DIAM (mm), QUANT, CLUNIT (cm), C.TOTAL (cm). Lists steel reinforcement for beams V69, V73, V76, V78, V80, V81, V83, V78, V79, V102, V104.

Table with columns: AÇO, DIAM (mm), C.TOTAL (m), PESO (kg). Summary of steel reinforcement for beams V69, V73, V76, V78, V80, V81, V83, V78, V79, V102, V104.

Volume de concreto (C-30) = 21.24 m³  
Área de forma = 205.67 m²

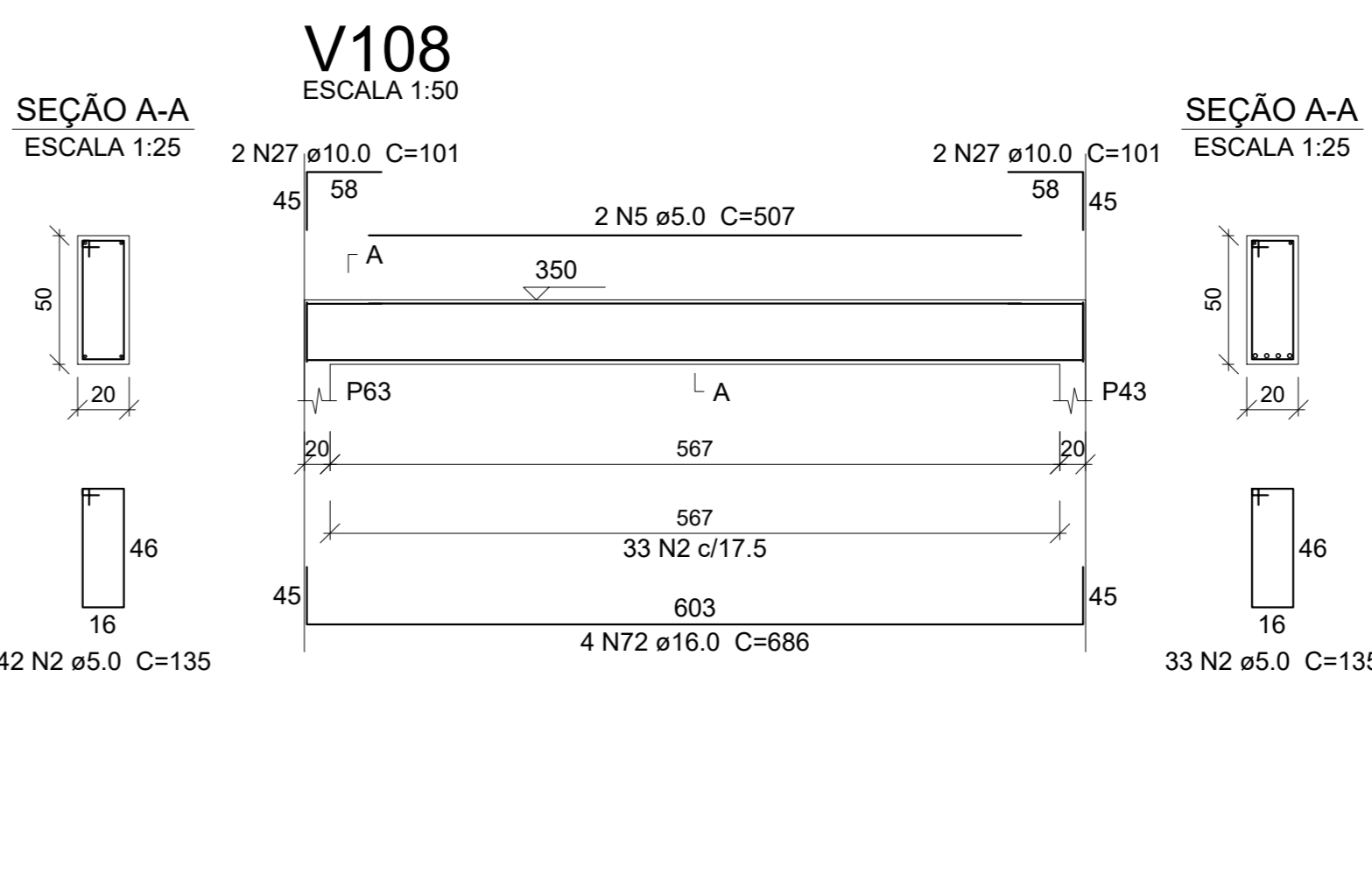
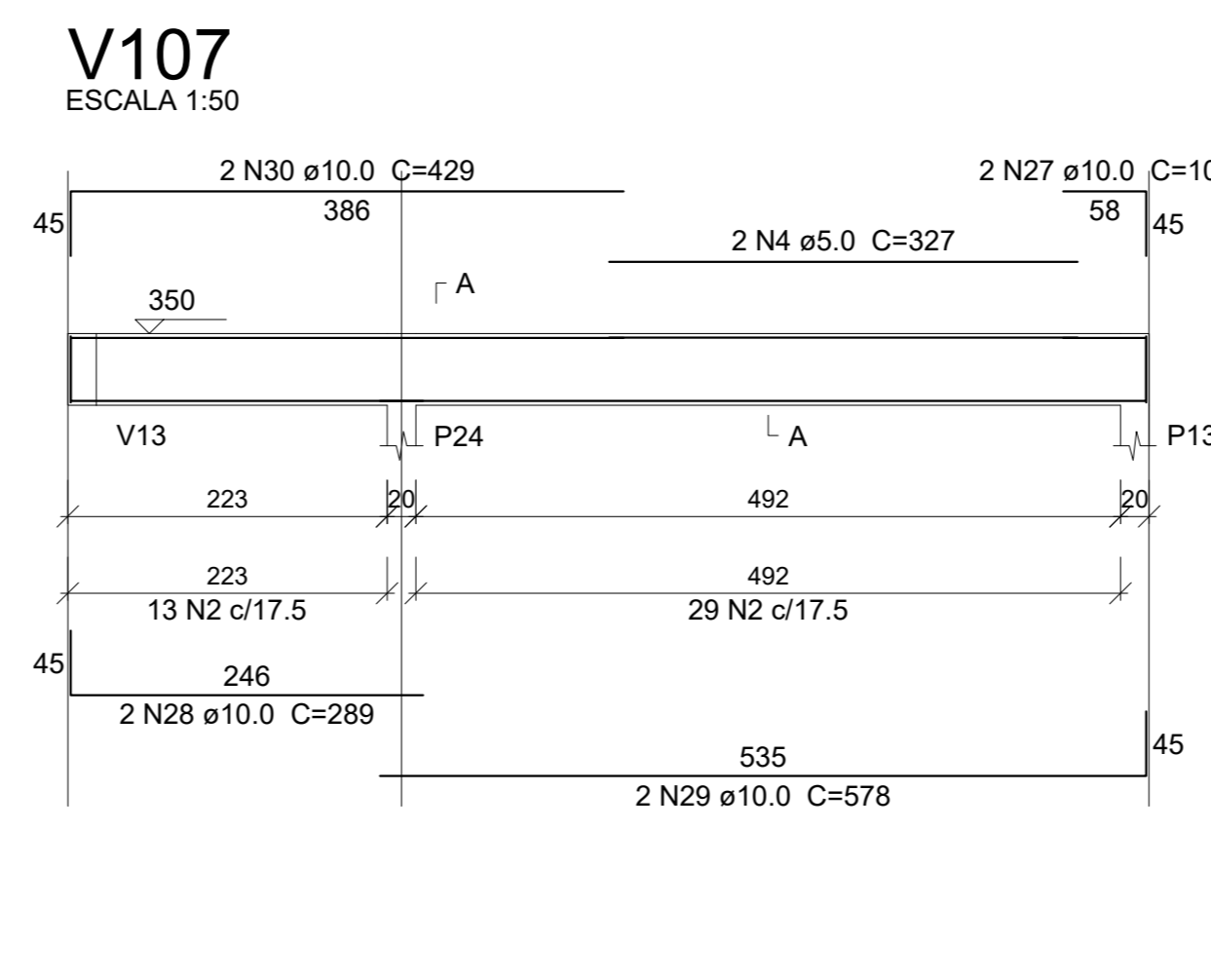
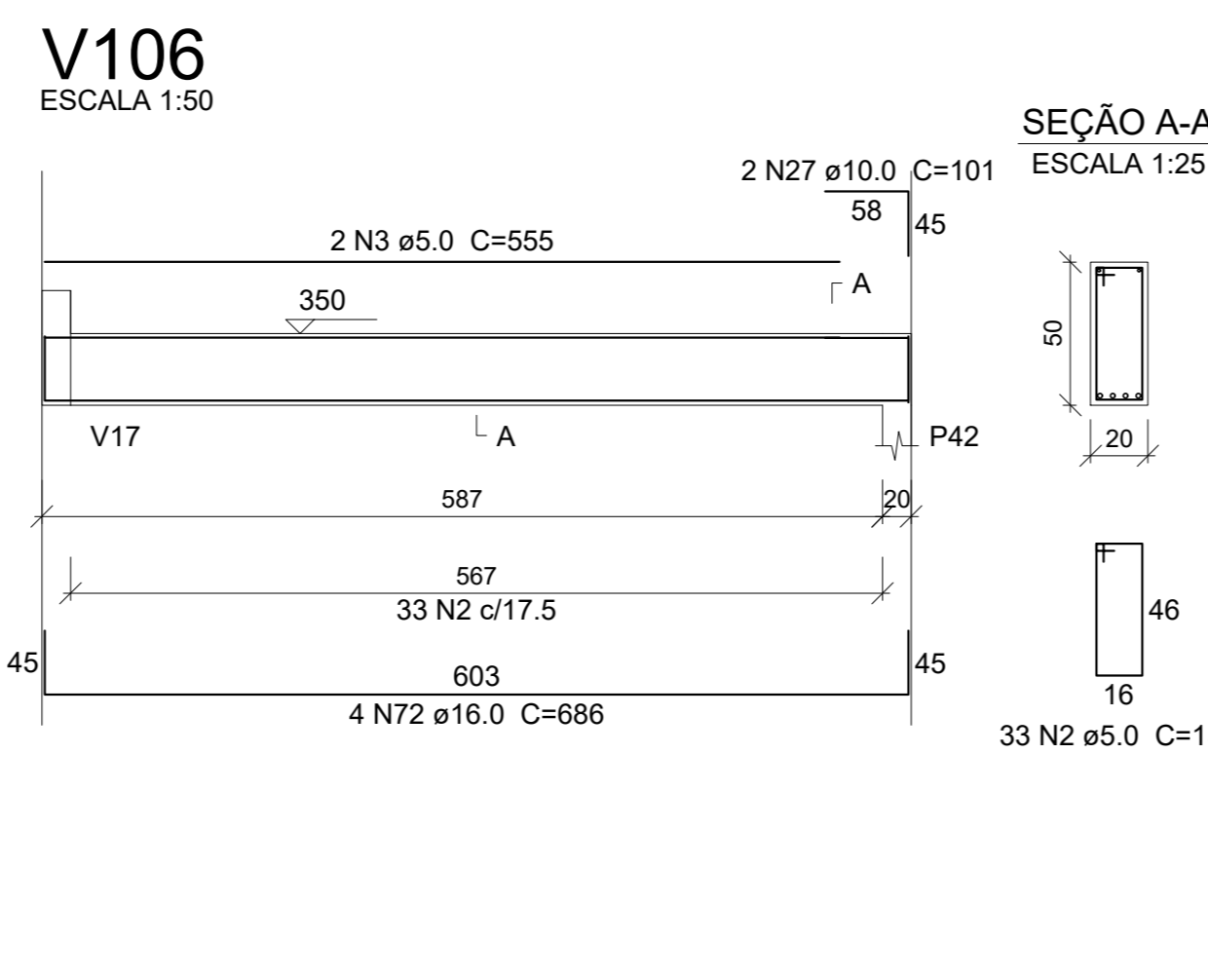
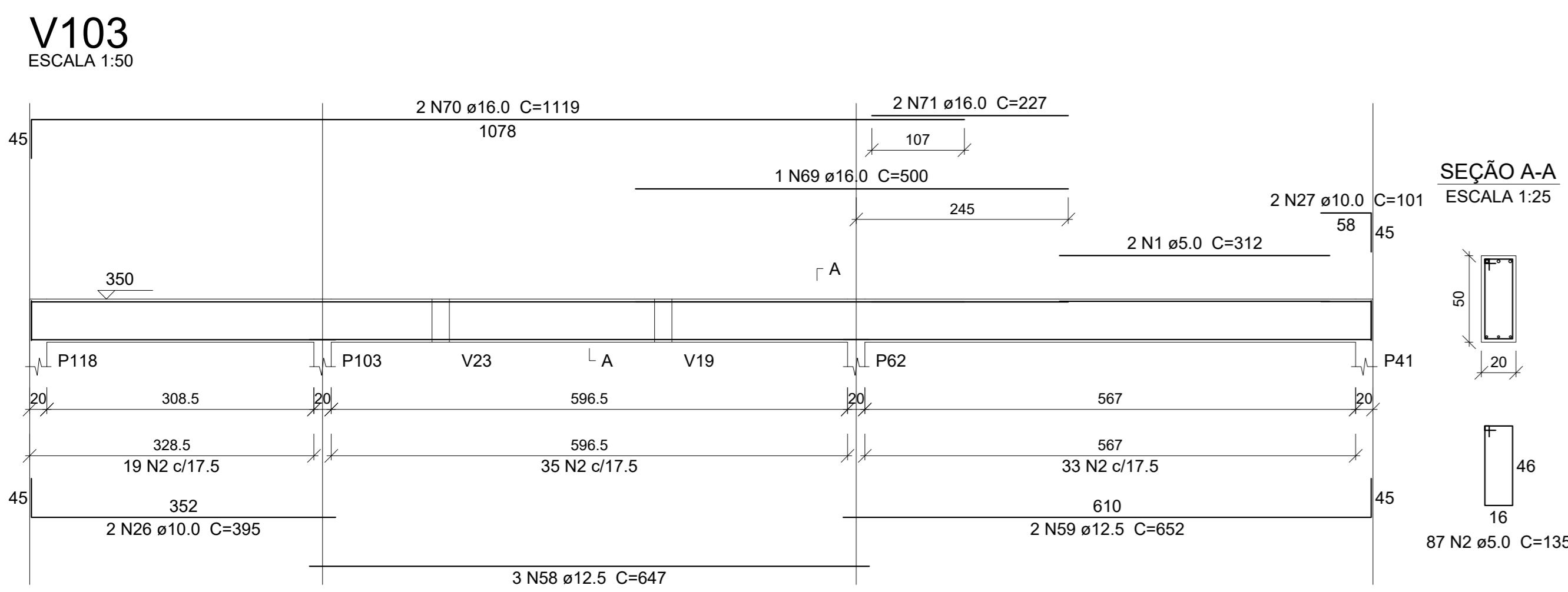
Table with columns: Revisões da prancha, N, Descrição, Autor, Data. Revision log for the drawing.

ESTADO DO CEARÁ  
PREFEITURA MUNICIPAL DE QUIXADÁ  
PRÉDIO PARA USO HOSPITALAR  
Vigas do pavimento LAJE DE FORRO  
19  
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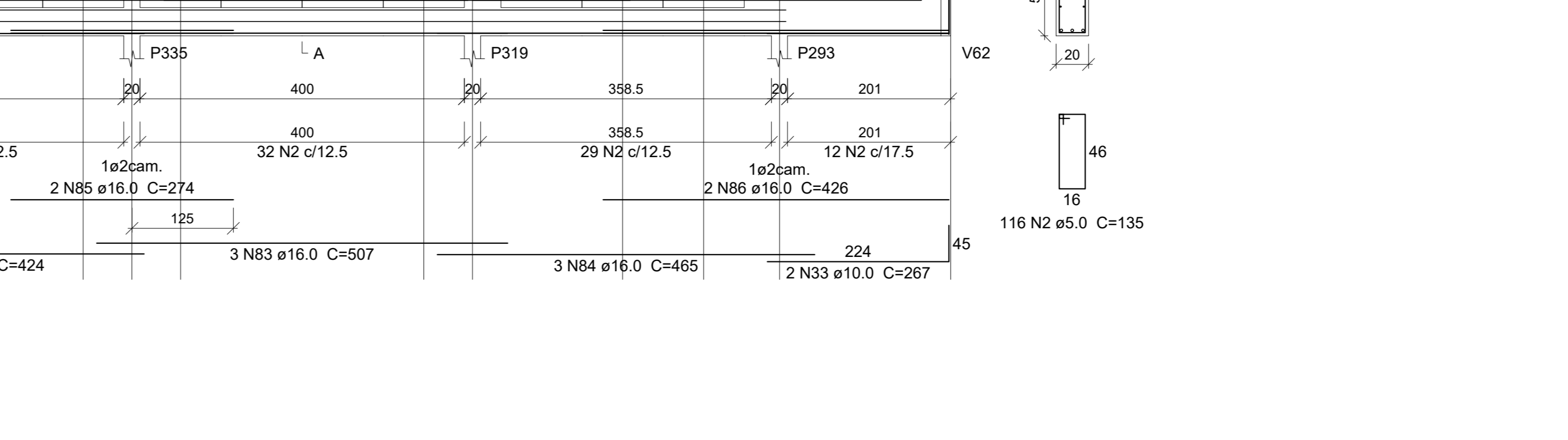
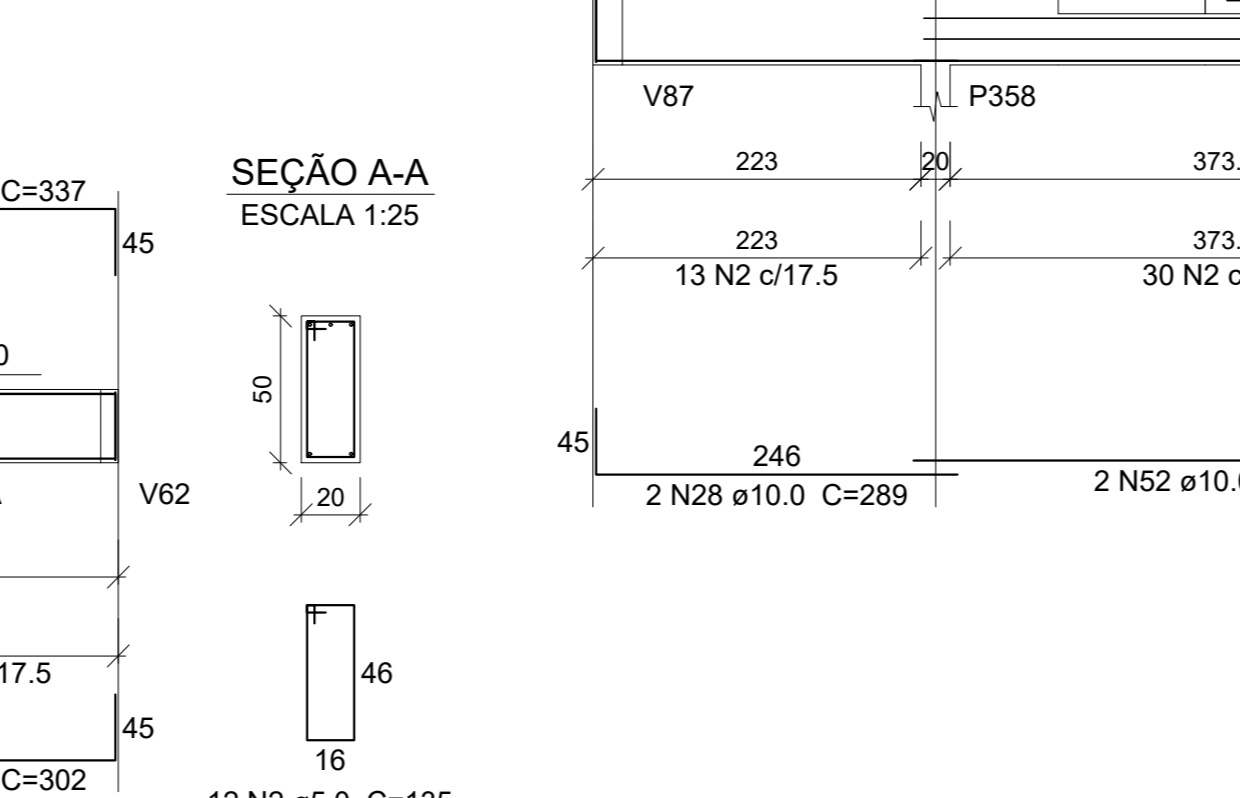
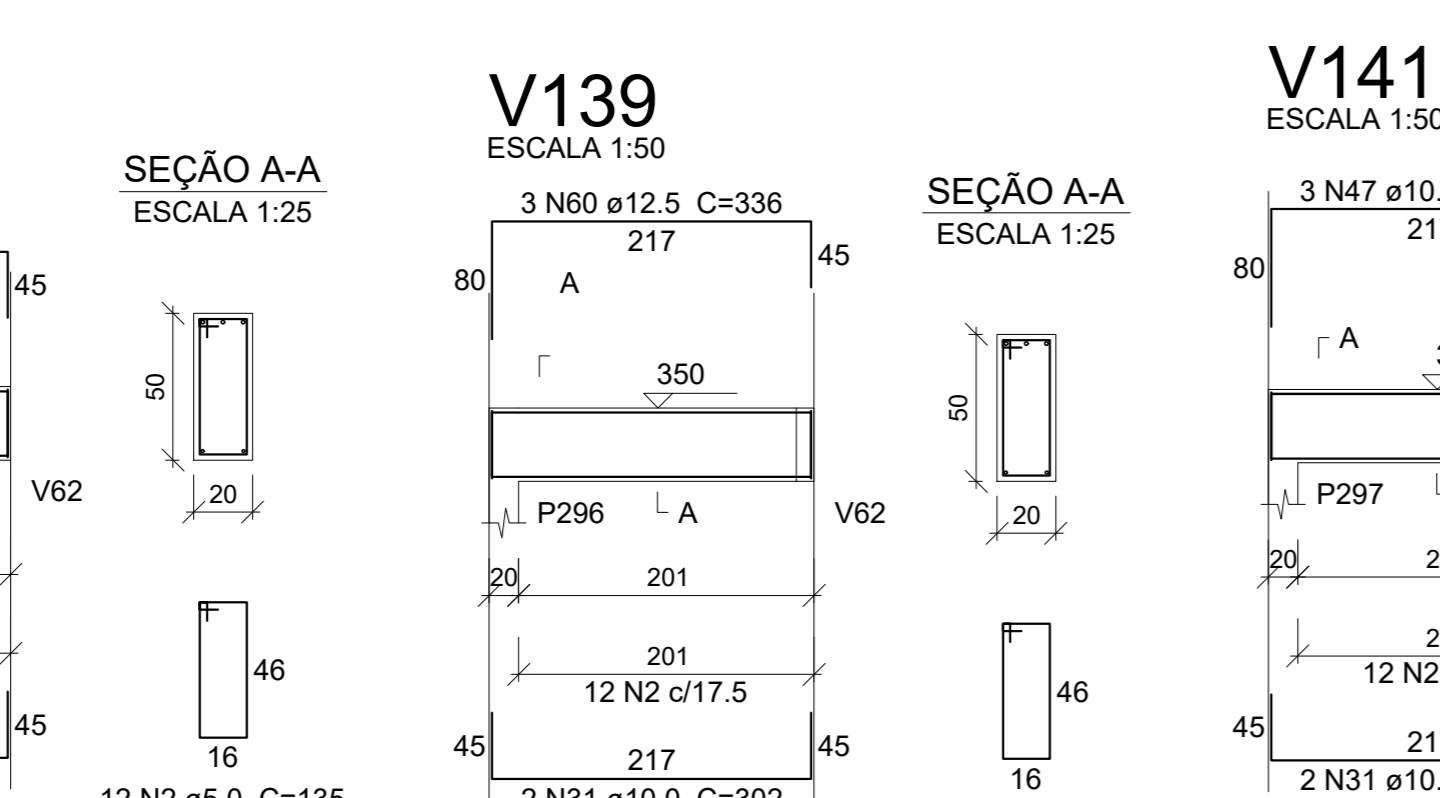
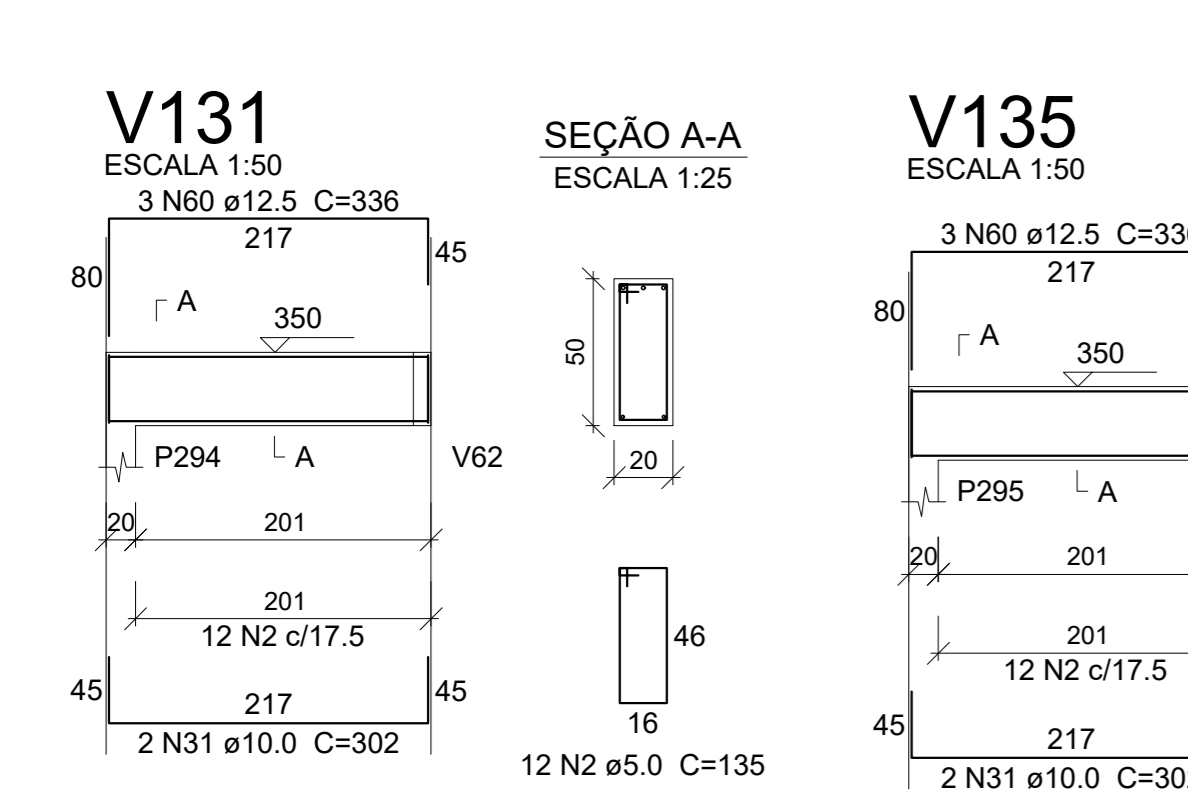
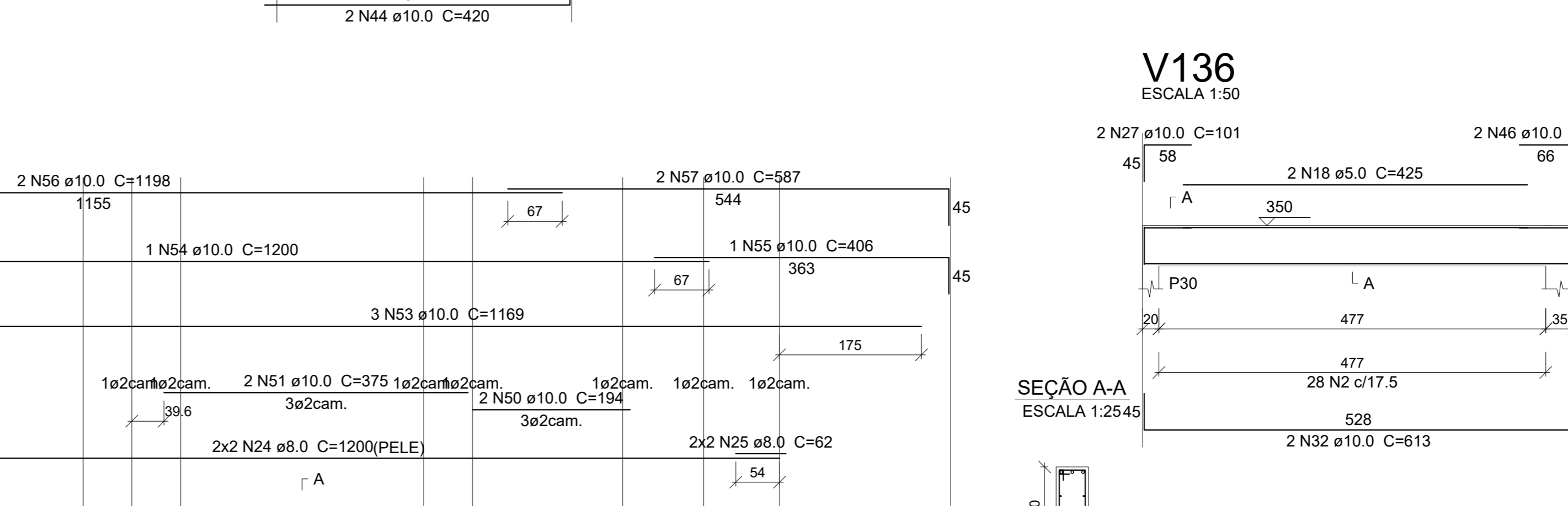
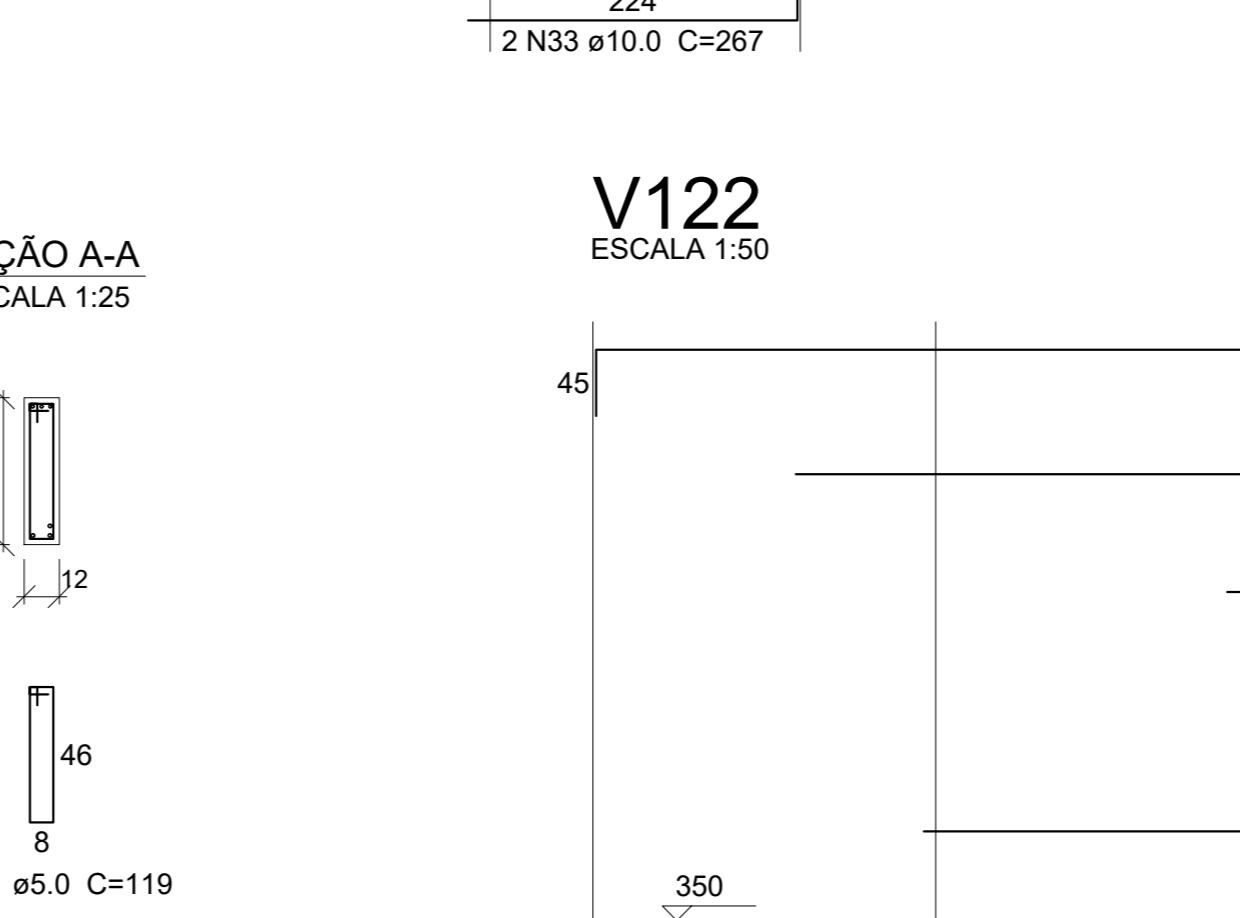
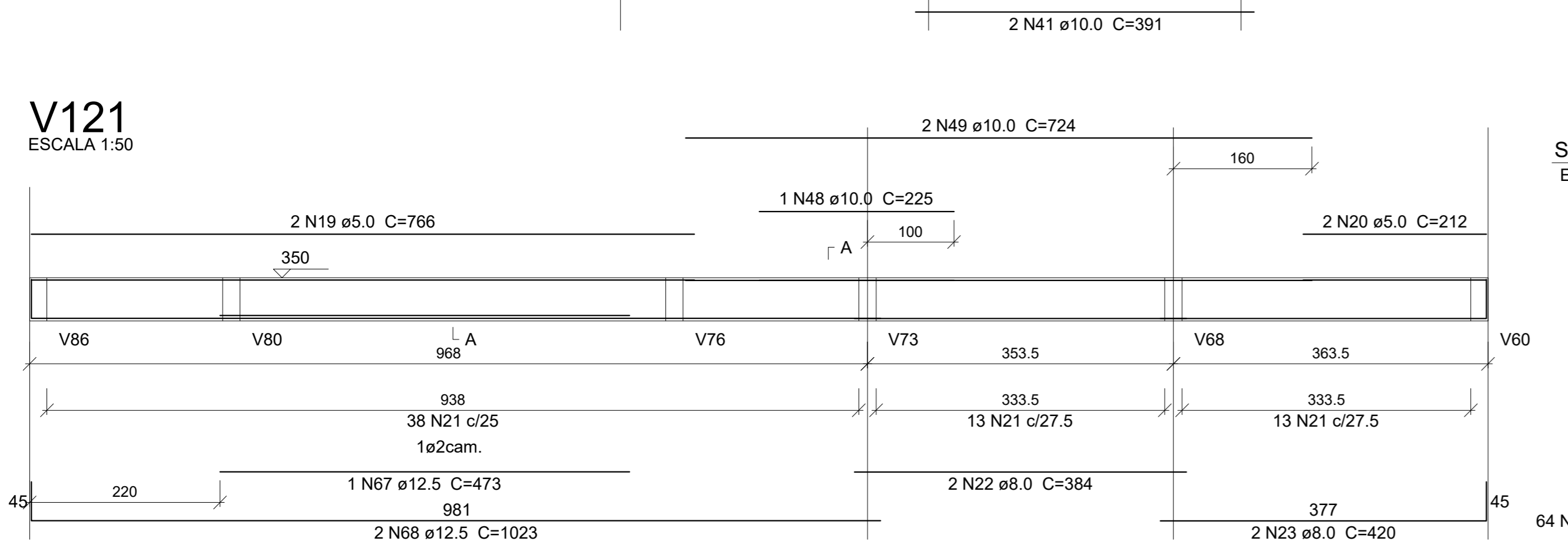
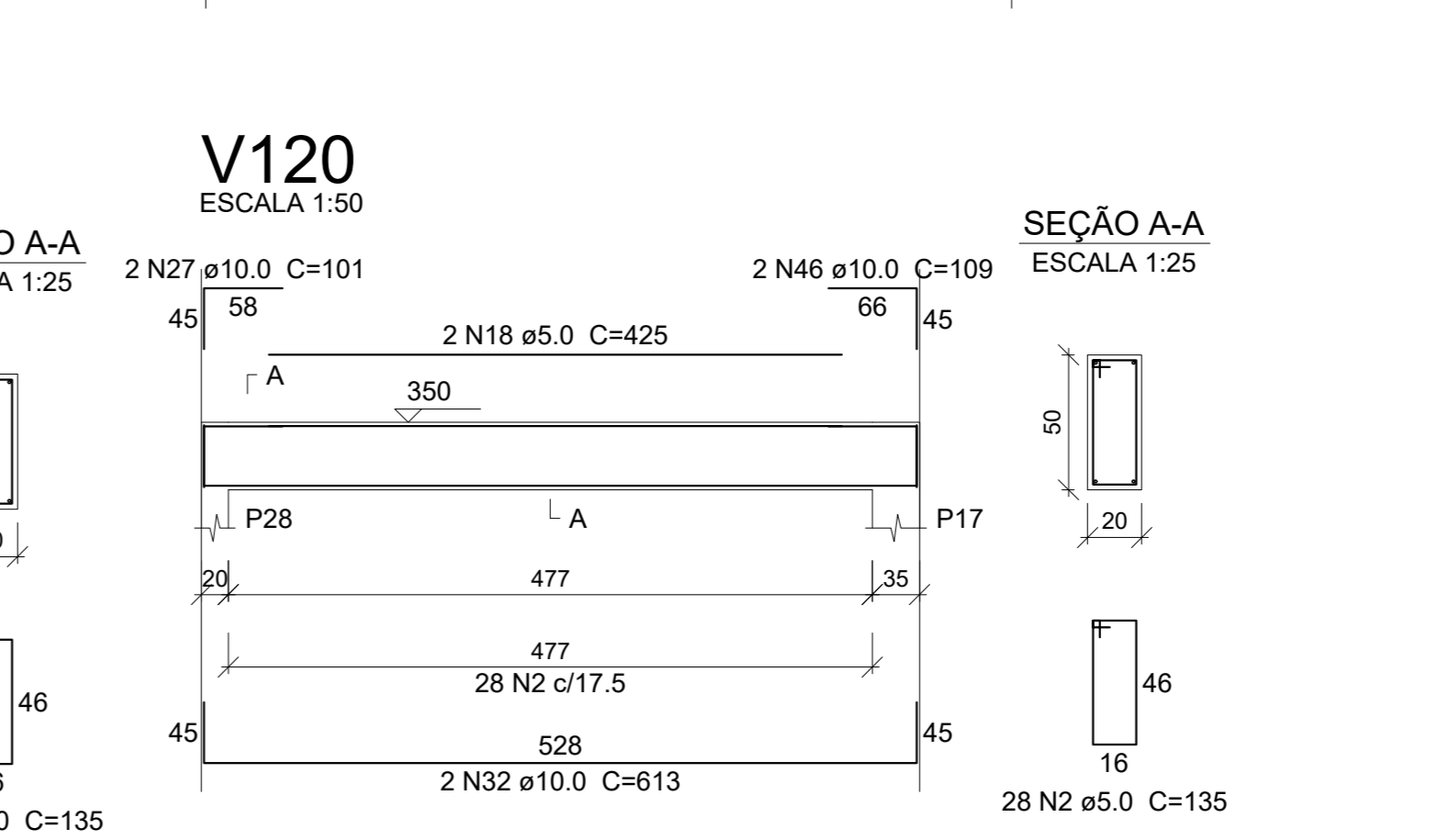
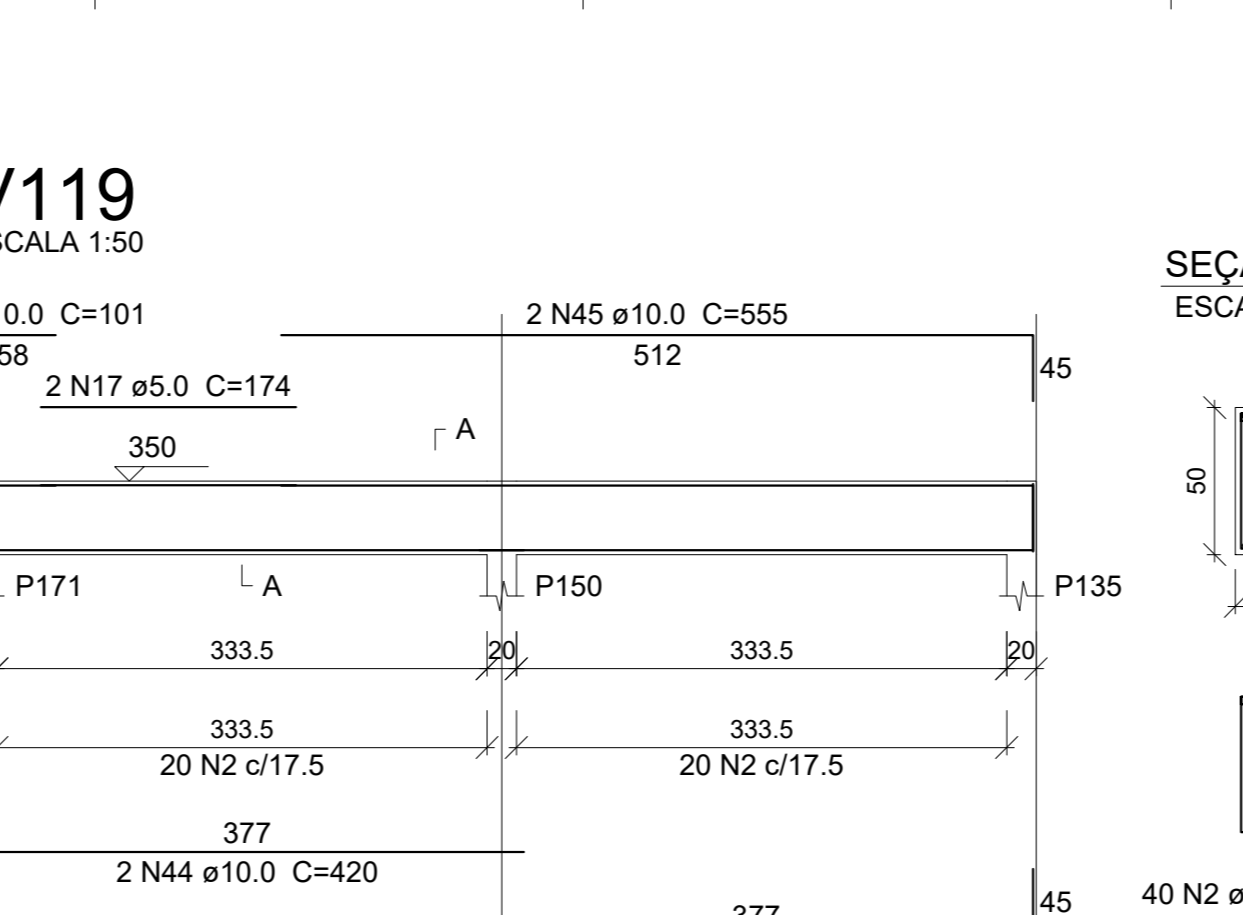
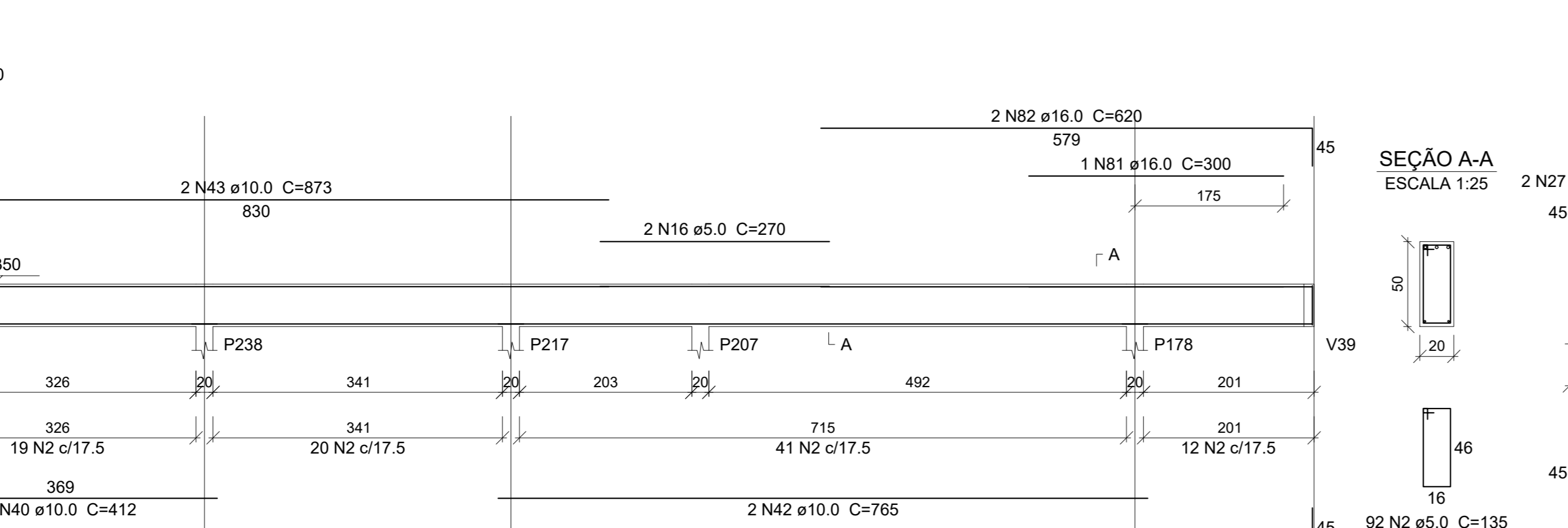
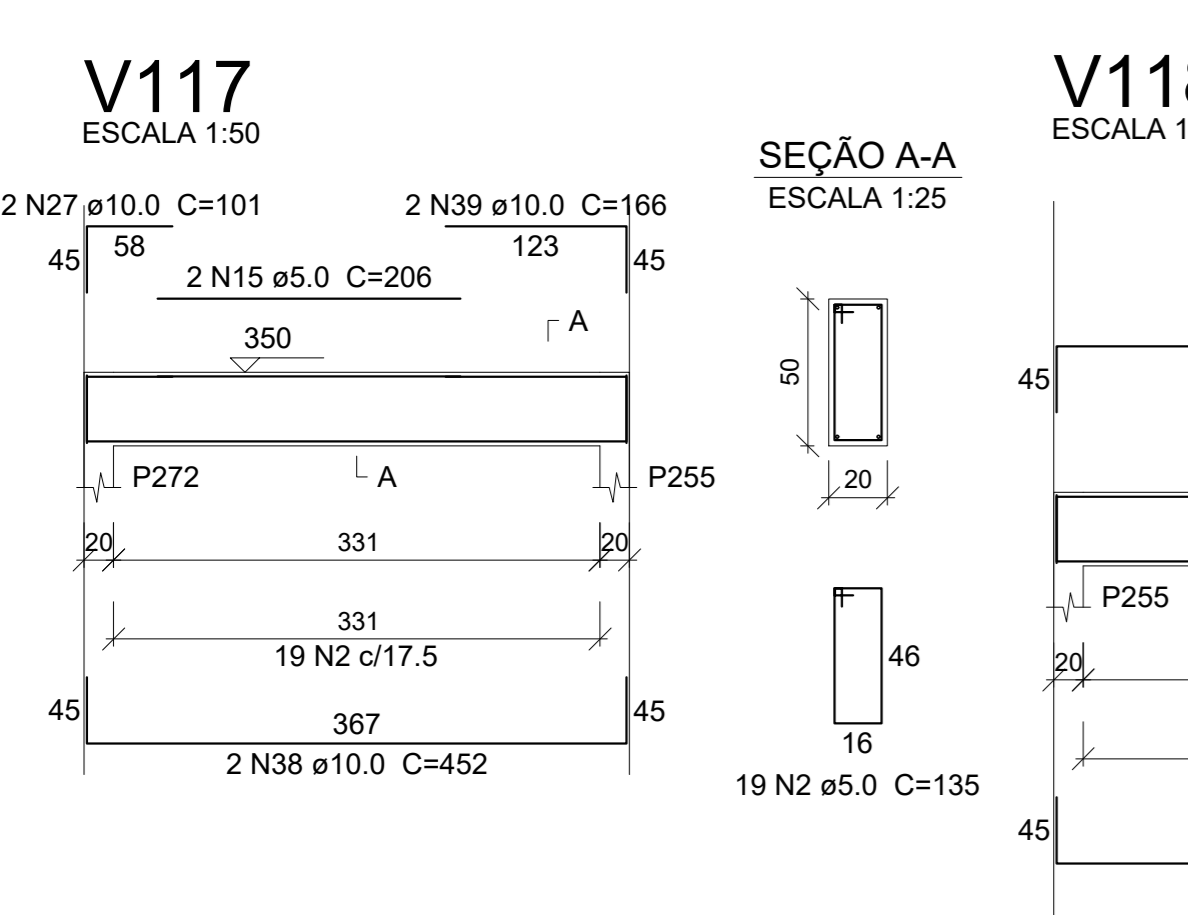
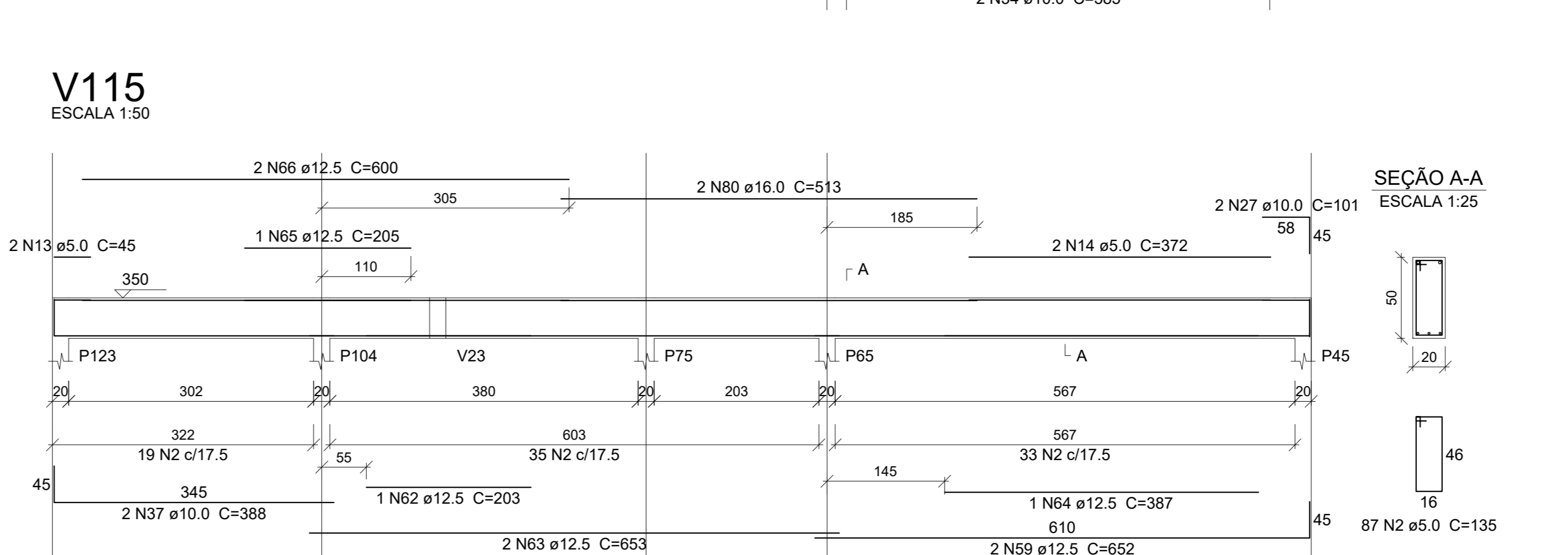
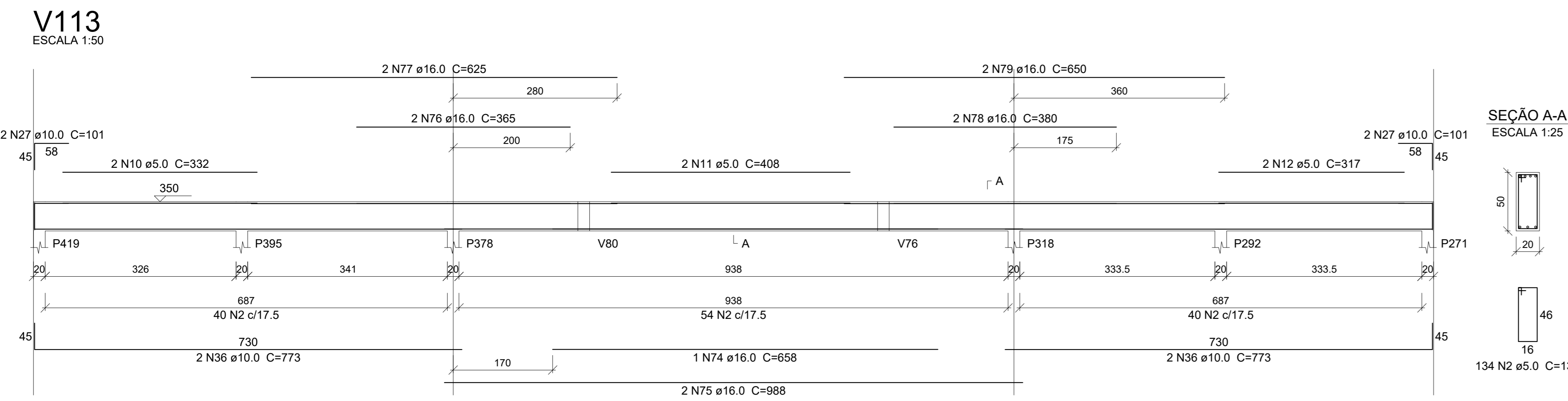
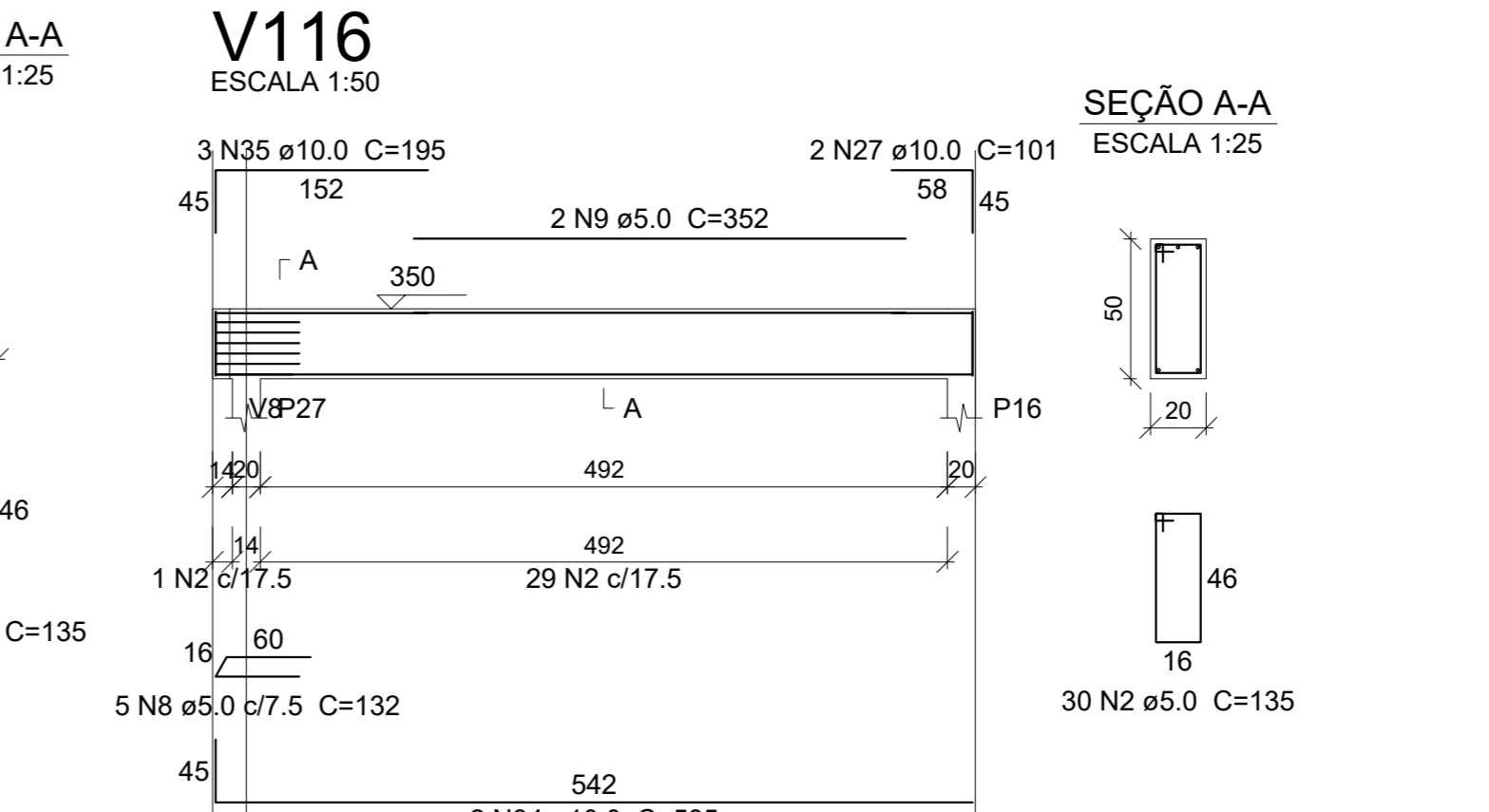
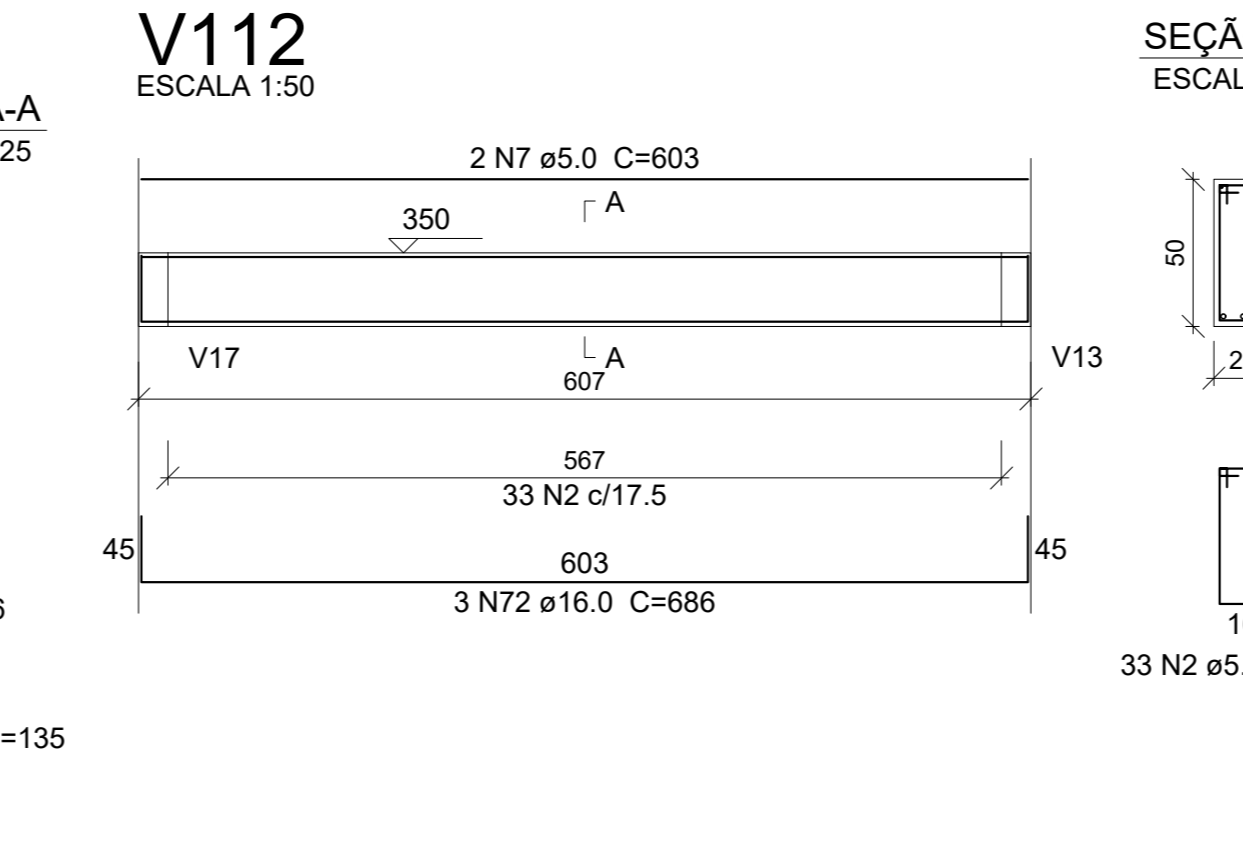
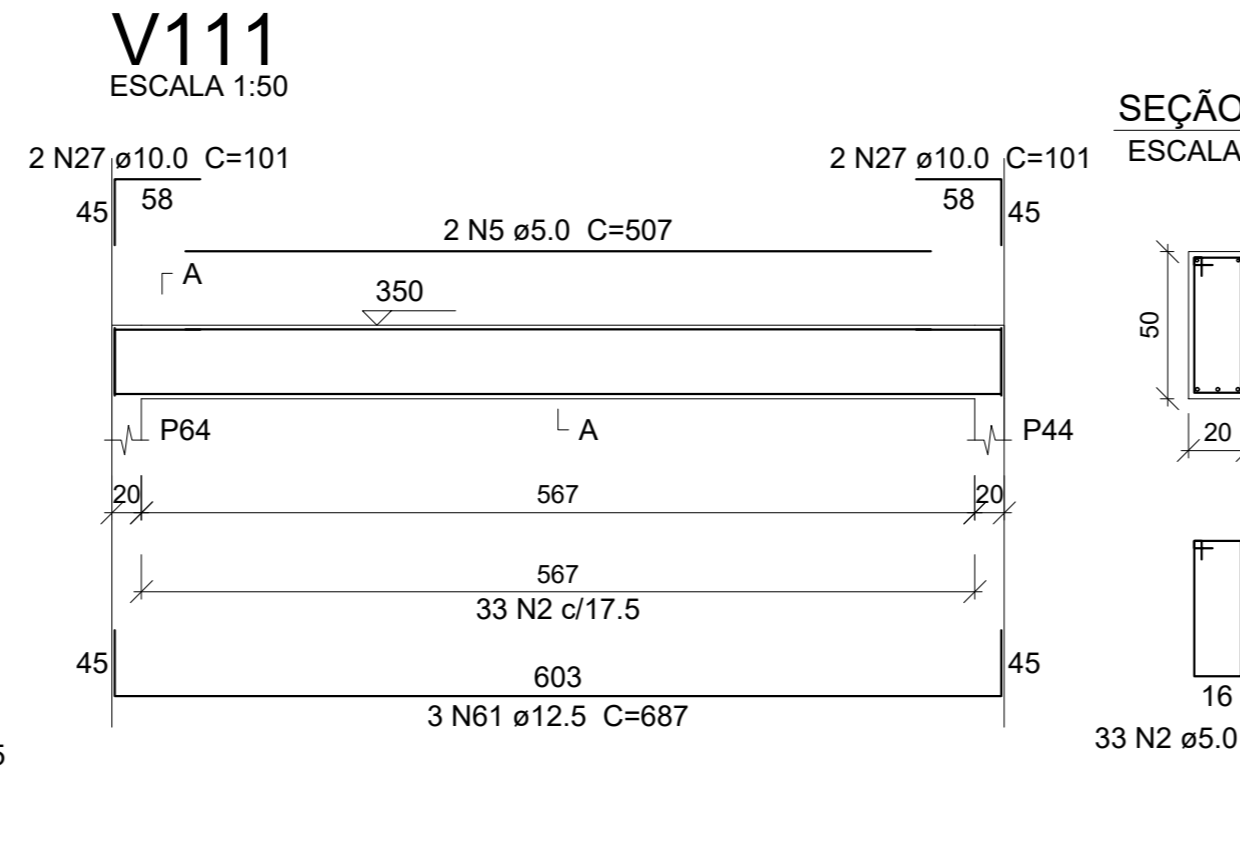
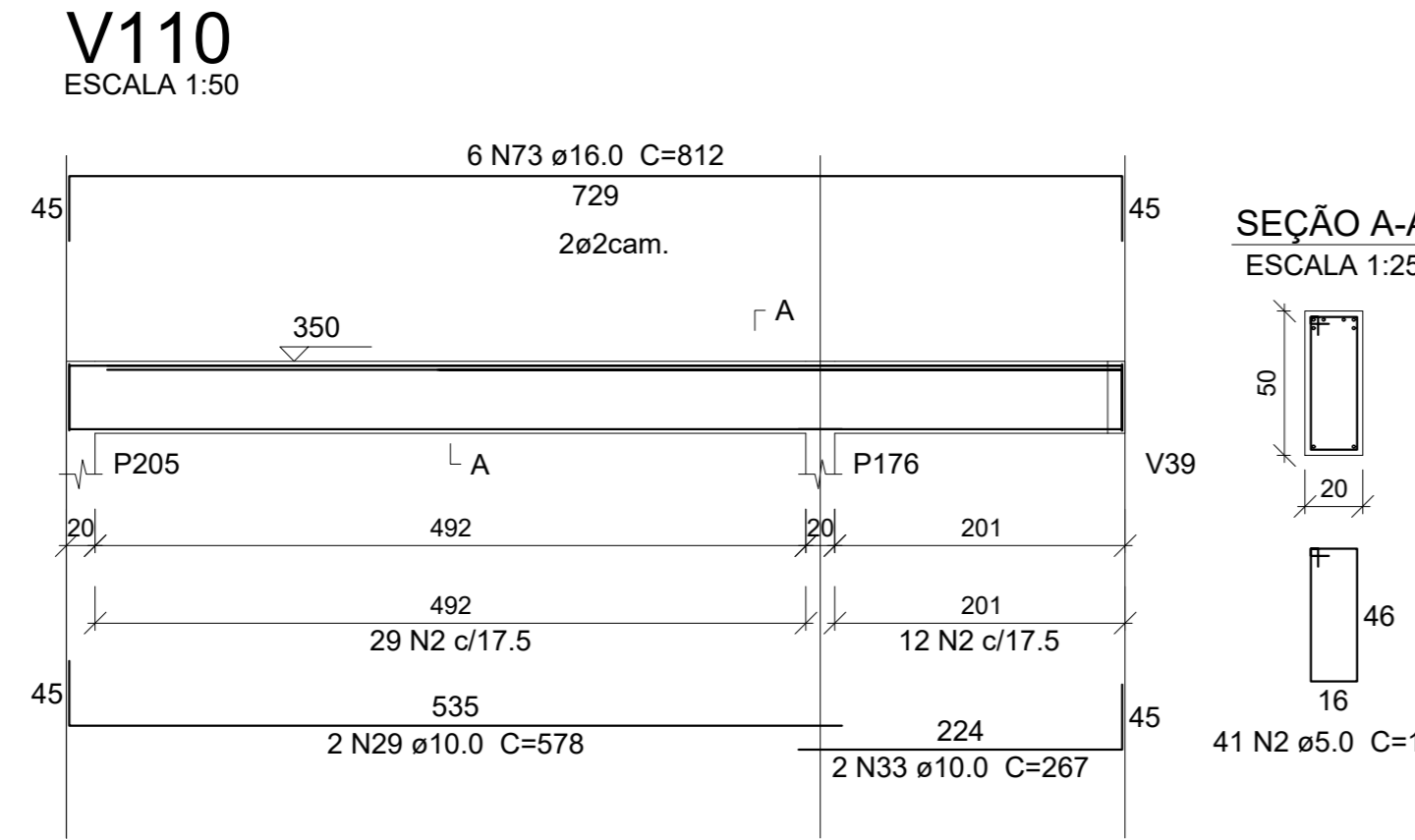
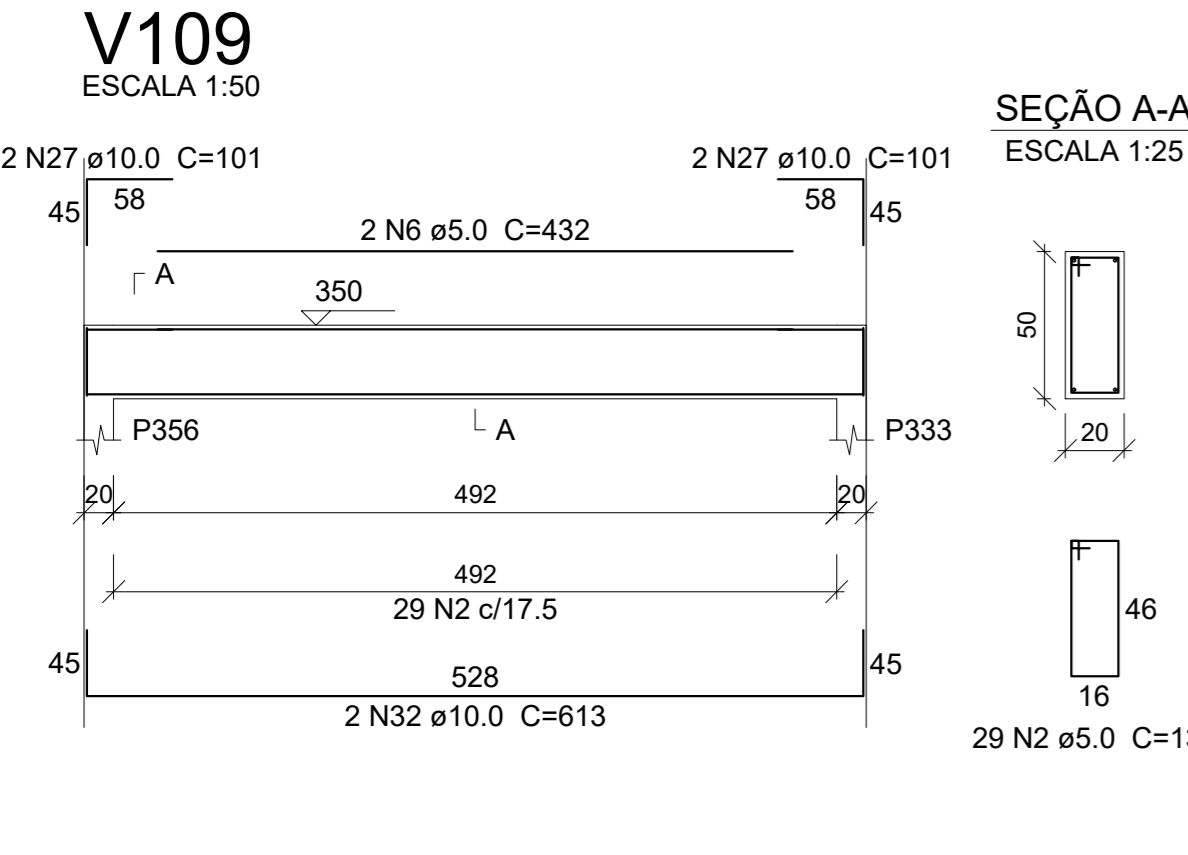






Relação do aço

CAÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	2	312	624
	2	5.0	953	136	128655
	3	5.0	2	555	1110
	4	5.0	2	327	654
	5	5.0	4	507	2028
	6	5.0	2	432	864
	7	5.0	2	603	1206
	8	5.0	5	132	660
	9	5.0	2	352	704
	10	5.0	2	332	664
	11	5.0	2	408	816
	12	5.0	2	317	634
	13	5.0	2	45	90
	14	5.0	2	372	744
	15	5.0	2	206	412
	16	5.0	2	270	540
	17	5.0	2	174	348
	18	5.0	4	425	1700
	19	5.0	2	766	1532
	20	5.0	2	212	424
	21	5.0	64	119	7616
	22	8.0	2	384	768
	23	8.0	2	420	840
	24	8.0	4	1200	4800
	25	8.0	2	62	124
	26	10.0	2	395	790
	27	10.0	34	101	3434
	28	10.0	4	289	1156
	29	10.0	4	578	2312
	30	10.0	2	429	858
	31	10.0	8	302	2416
	32	10.0	6	613	3678
	33	10.0	6	267	1602
	34	10.0	2	585	1170
	35	10.0	3	195	585
	36	10.0	4	773	3092
	37	10.0	2	388	776
	38	10.0	2	452	904
	39	10.0	2	166	332
	40	10.0	2	412	824
	41	10.0	2	391	782
	42	10.0	2	765	1530
	43	10.0	2	873	1746
	44	10.0	4	420	1680
	45	10.0	2	555	1110
	46	10.0	4	109	436
	47	10.0	3	337	1011
	48	10.0	1	225	225
	49	10.0	2	724	1448
	50	10.0	2	194	388
	51	10.0	2	375	750
	52	10.0	2	424	848
	53	10.0	3	1169	3507
	54	10.0	1	1200	1200
	55	10.0	1	406	406
	56	10.0	2	1198	2396
	57	10.0	2	587	1174
	58	12.5	3	647	1941
	59	12.5	4	652	2608
	60	12.5	9	336	3024
	61	12.5	3	687	2061
	62	12.5	1	203	203
	63	12.5	2	653	1306
	64	12.5	1	367	367
	65	12.5	5	205	1025
	66	12.5	2	600	1200
	67	12.5	1	473	473
	68	12.5	2	1023	2046
	69	16.0	1	500	500
	70	16.0	2	1119	2238
	71	16.0	2	227	454
	72	16.0	11	686	7546
	73	16.0	6	612	4672
	74	16.0	1	658	658
	75	16.0	2	988	1976
	76	16.0	2	365	730
	77	16.0	2	625	1250
	78	16.0	2	360	720
	79	16.0	2	650	1300
	80	16.0	2	513	1026
	81	16.0	1	300	300
	82	16.0	2	620	1240
	83	16.0	3	507	1521
	84	16.0	3	465	1395
	85	16.0	2	274	548
	86	16.0	2	426	852



Resumo do aço

CAÇO	DIAM (mm)	C.TOTAL (m)	PESO (kg)
CA50	8.0	66.6	26.3
	10.0	445.7	274.8
	12.5	154.6	148.9
	16.0	291.7	460.3
CA60	5.0	1520.3	234.3
PESO TOTAL (kg)		910.2	
CA50		910.2	
CA60		234.3	

Volume de concreto (C-30) = 16.68 m³  
Área de forma = 175.58 m²

Revisões da prancha

Nº	Comentário	Elaborado	Aut. Data
X	XXXXX	XXXXX	XXXXXX/XX
X	XXXXX	XXXXX	XXXXXX/XX
X	XXXXX	XXXXX	XXXXXX/XX
0	Emissão Inicial	<<	>>
Nº	Comentário	Aut. Data	

**ESTADO DO CEARÁ**  
**PREFEITURA MUNICIPAL DE QUIXADÁ**

CONCRETO: FA = 30 MPa

CLIENTE: PREFEITURA MUNICIPAL DE QUIXADÁ - CE

OBJETO: PRÉDIO PARA USO HOSPITALAR

TÍTULO: Vigas do pavimento LAJE DE FORRO

21

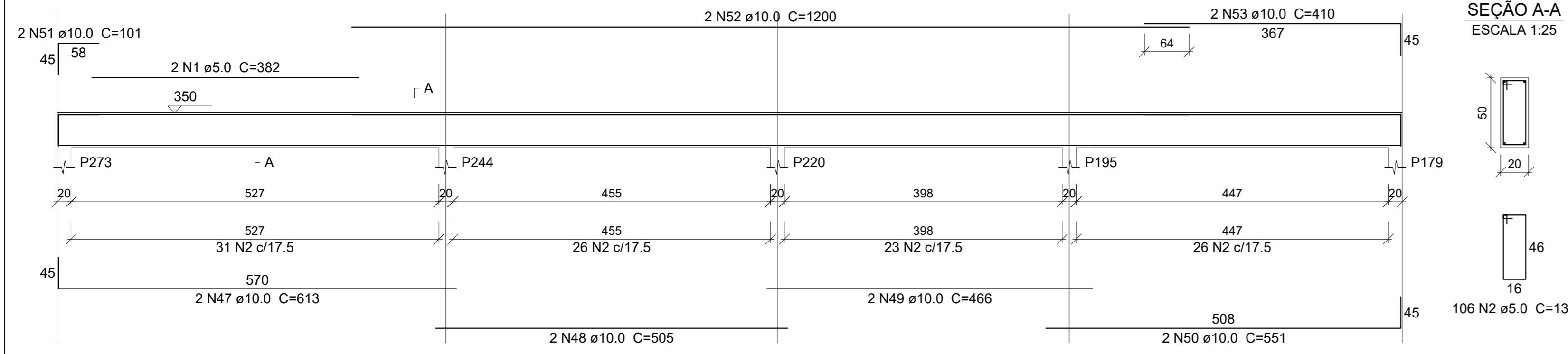
TOTAL 26

REV. Nº 1 00

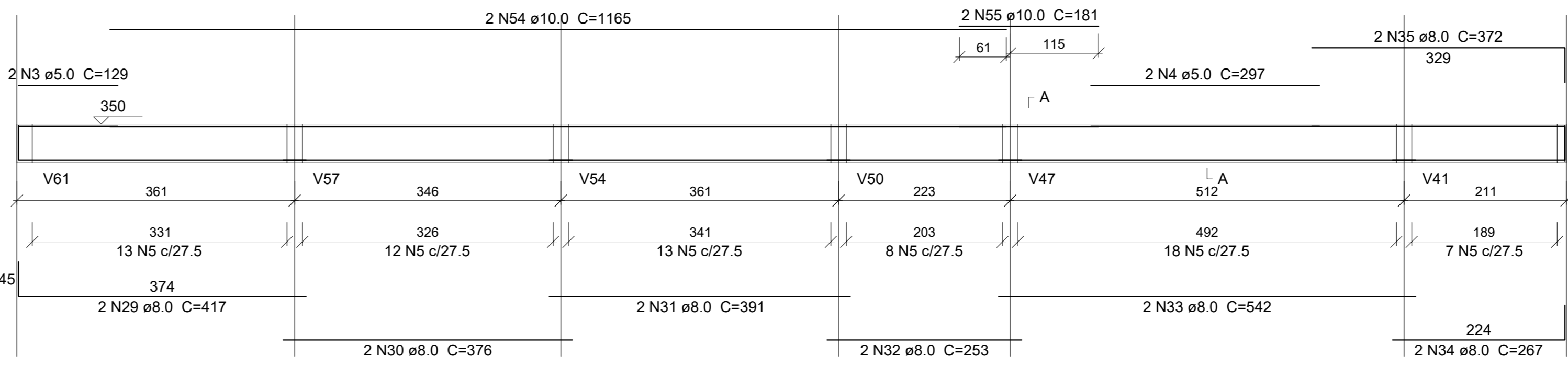
DATA: 01/03/2024 ESCALA: 1:50 CLIENTE: PREFEITURA MUNICIPAL DE QUIXADÁ LOCAL: QUIXADÁ



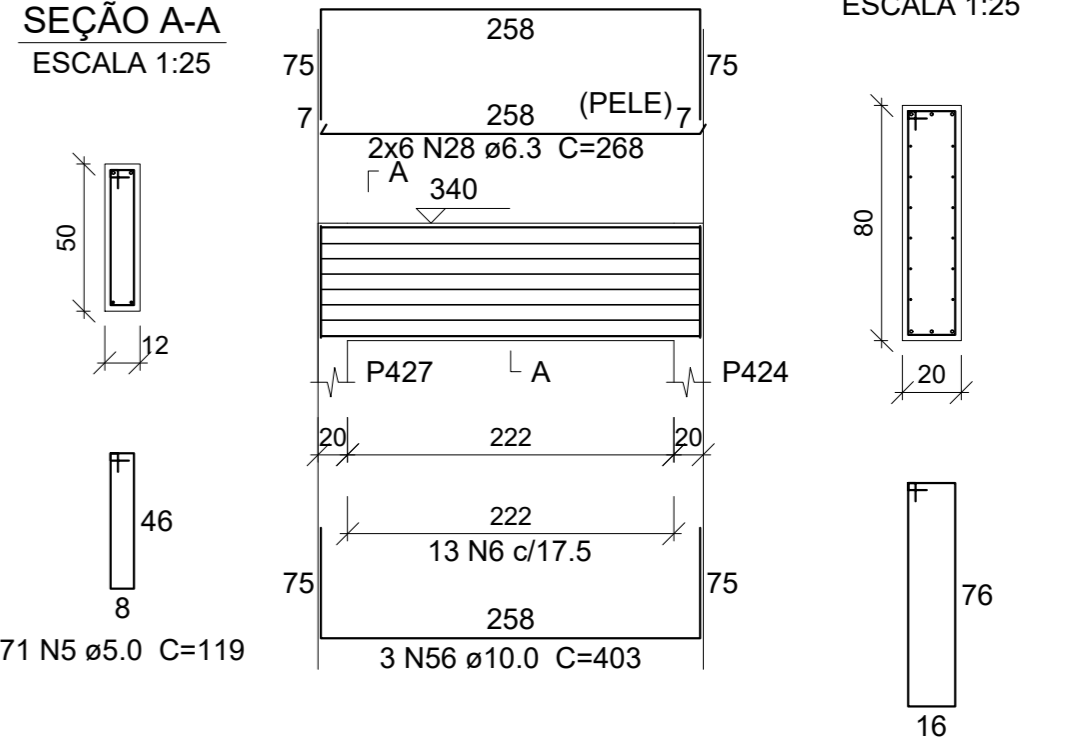
**V123**  
ESCALA 1:50



**V124**  
ESCALA 1:50



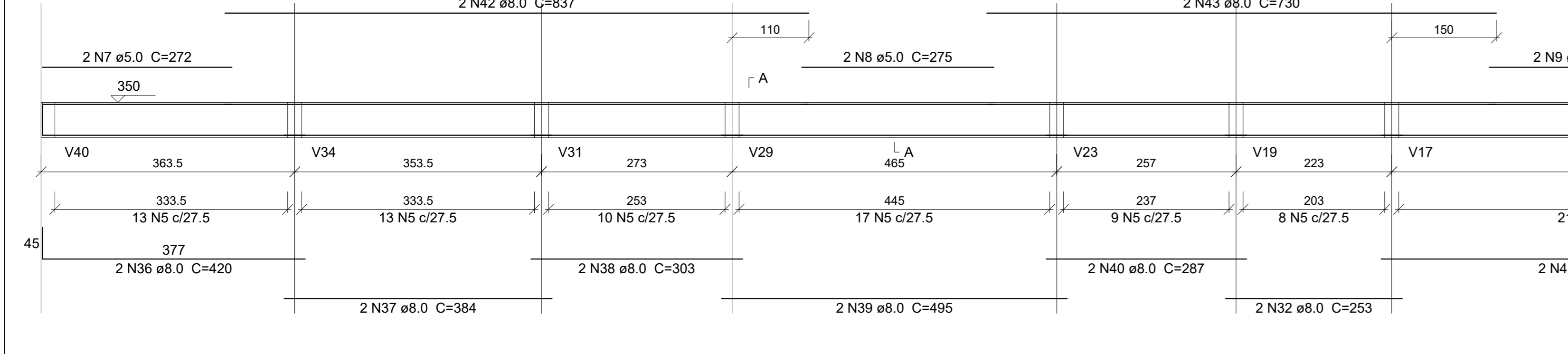
**V149**  
ESCALA 1:50



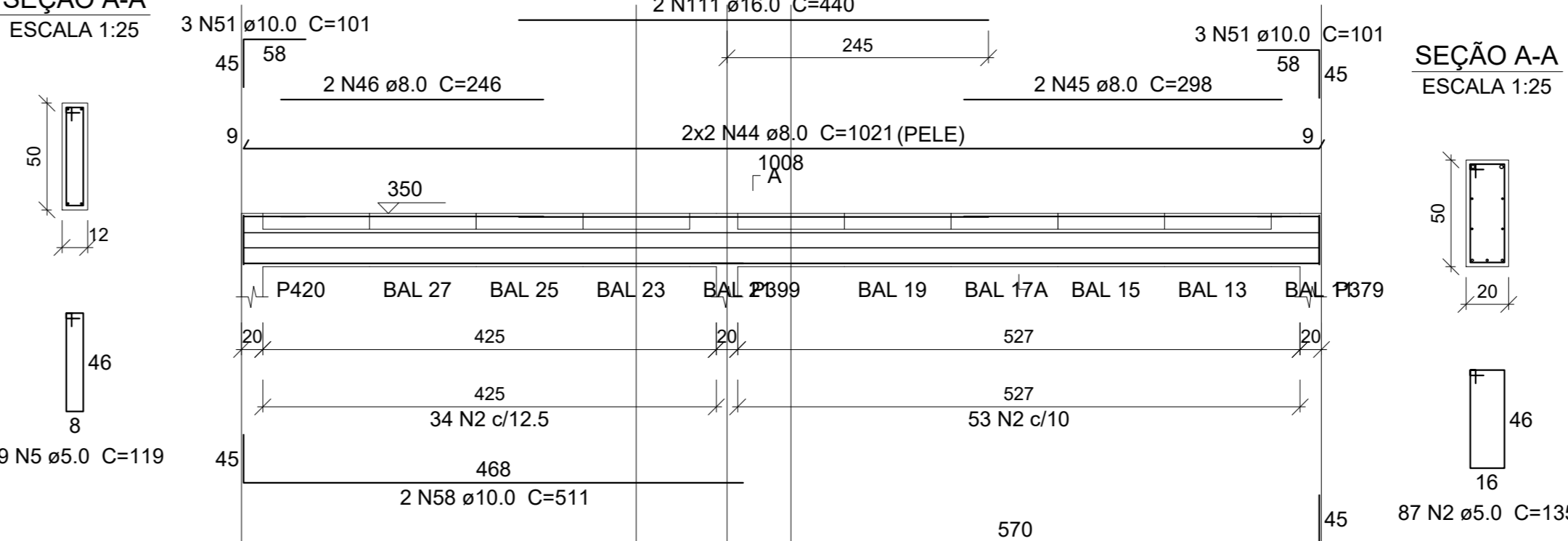
**Relação do aço**

CAÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	32	2	382	764
	2	5.0	1090	135	147150
	3	5.0	2	129	258
	4	5.0	4	297	1188
	5	5.0	170	119	20230
	6	5.0	13	195	2535
	7	5.0	2	272	544
	8	5.0	2	275	550
	9	5.0	4	282	1128
	10	5.0	2	333	666
	11	5.0	2	200	400
	12	5.0	4	202	808
	13	5.0	6	240	1440
	14	5.0	2	317	634
	15	5.0	2	408	816
	16	5.0	2	172	344
	17	5.0	2	148	296
	18	5.0	2	185	370
	19	5.0	2	325	650
	20	5.0	4	377	1508
	21	5.0	2	198	396
	22	5.0	2	243	486
	23	5.0	2	307	614
	24	5.0	4	327	1308
	25	5.0	2	212	424
	26	5.0	2	220	440
	27	5.0	13	115	1495
	28	6.3	12	268	3216
	29	8.0	2	417	834
	30	8.0	2	376	752
	31	8.0	2	391	782
	32	8.0	4	253	1012
	33	8.0	4	542	2168
	34	8.0	4	267	1068
	35	8.0	2	372	744
	36	8.0	2	495	990
	37	8.0	2	287	574
	38	8.0	2	303	606
	39	8.0	2	405	810
	40	8.0	2	287	574
	41	8.0	2	617	1234
	42	8.0	2	837	1674
	43	8.0	2	1460	2920
	44	8.0	4	1021	4084
	45	8.0	2	298	596
	46	8.0	2	246	492
	47	10.0	5	613	3065
	48	10.0	2	505	1010
	49	10.0	2	466	932
	50	10.0	2	551	1102
	51	10.0	32	101	3232
	52	10.0	2	1200	2400
	53	10.0	2	410	820
	54	10.0	2	1165	2330
	55	10.0	2	181	362
	56	10.0	6	403	2418
	57	10.0	2	427	854
	58	10.0	2	511	1022
	59	10.0	2	463	926
	60	10.0	2	398	796
	61	10.0	2	653	1306
	62	10.0	2	430	860
	63	10.0	2	500	1000
	64	10.0	2	617	1234
	65	10.0	4	281	1124
	66	10.0	5	395	1975
	67	10.0	2	538	1076
	68	10.0	3	370	1110
	69	10.0	2	670	1340
	70	10.0	3	330	990
	71	10.0	3	421	1263
	72	10.0	4	473	1892
	73	10.0	4	471	1884
	74	10.0	4	310	1240
	75	10.0	2	181	362
	76	10.0	3	528	1584
	77	10.0	2	572	1144
	78	10.0	2	526	1056
	79	10.0	2	497	994
	80	10.0	2	381	762
	81	10.0	3	1190	3570
	82	10.0	3	185	555
	83	10.0	4	491	1964
	84	10.0	5	568	2840
	85	10.0	4	648	2592
	86	10.0	4	588	2352
	87	10.0	4	580	2320
	88	10.0	4	423	1692
	89	10.0	3	375	1125
	90	10.0	1	320	320
	91	10.0	2	720	1440
	92	10.0	4	563	2252
	93	10.0	1	302	302
	94	10.0	2	394	788
	95	10.0	2	348	696
	96	10.0	2	345	690
	97	10.0	2	395	790
	98	10.0	1	315	315
	99	10.0	2	783	1566
	100	10.0	2	1173	2346
	101	10.0	2	184	368
	102	10.0	2	323	646
	103	10.0	2	353	706
	104	12.5	1	370	370
	105	12.5	2	655	1310
	106	12.5	3	405	1215
	107	12.5	3	365	1095
	108	12.5	3	607	1821
	109	12.5	1	225	225
	110	12.5	2	553	1106
	111	16.0	2	440	880
	112	16.0	3	430	1290

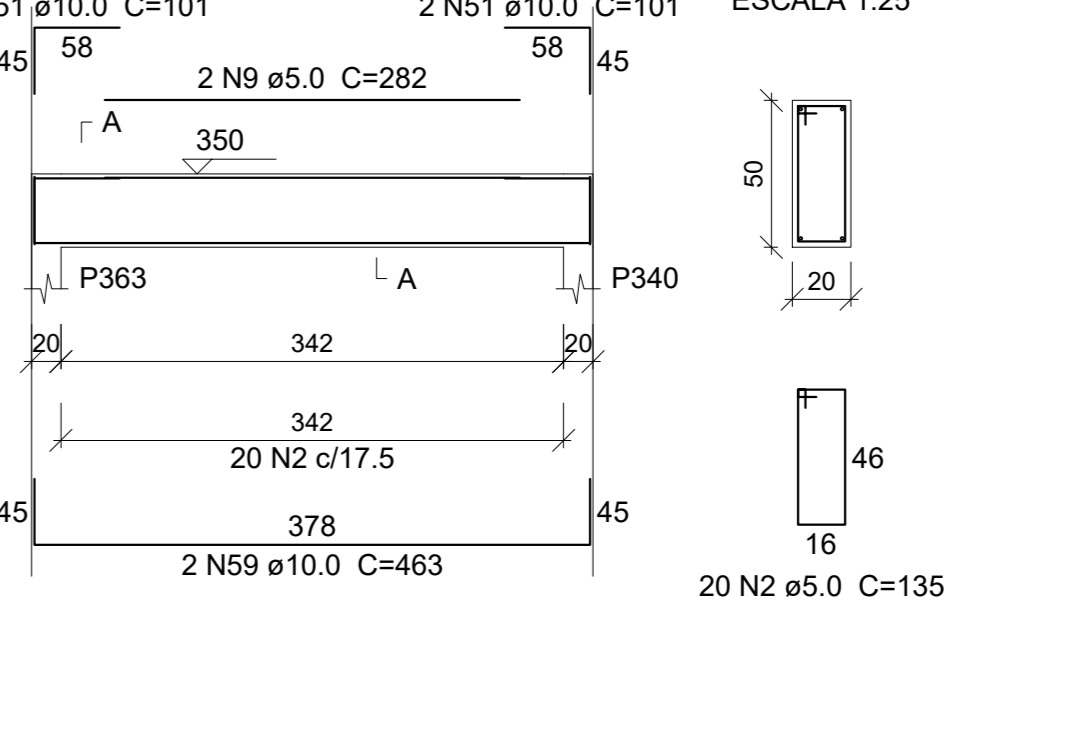
**V127**  
ESCALA 1:50



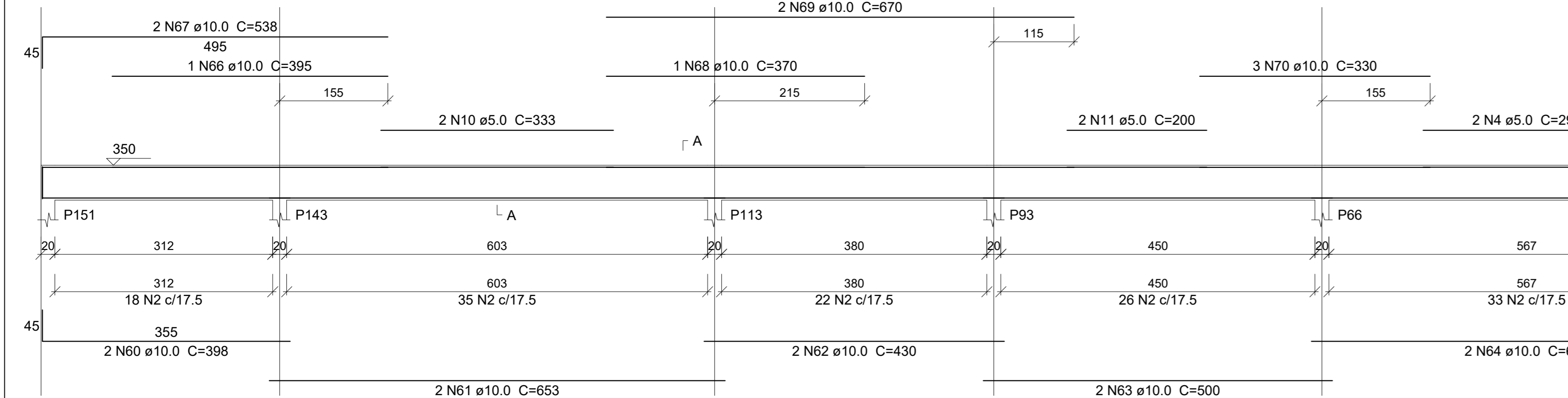
**V129**  
ESCALA 1:50



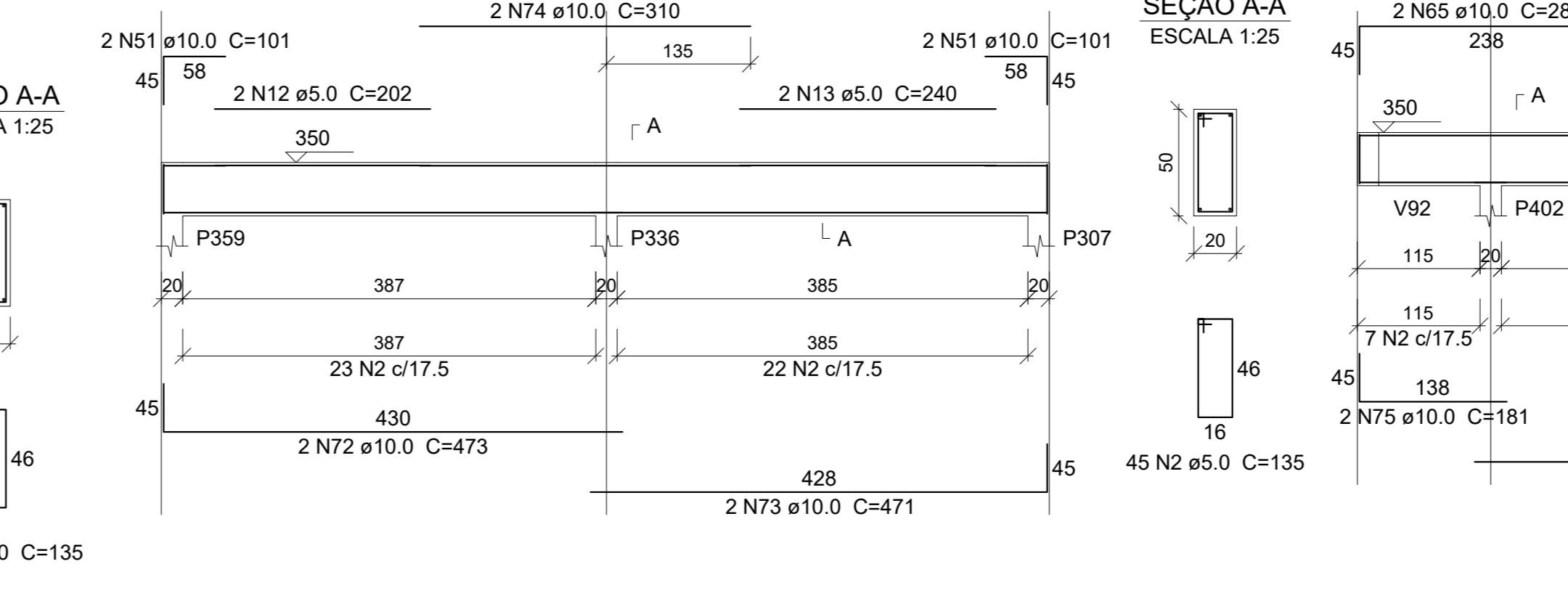
**V147**  
ESCALA 1:50



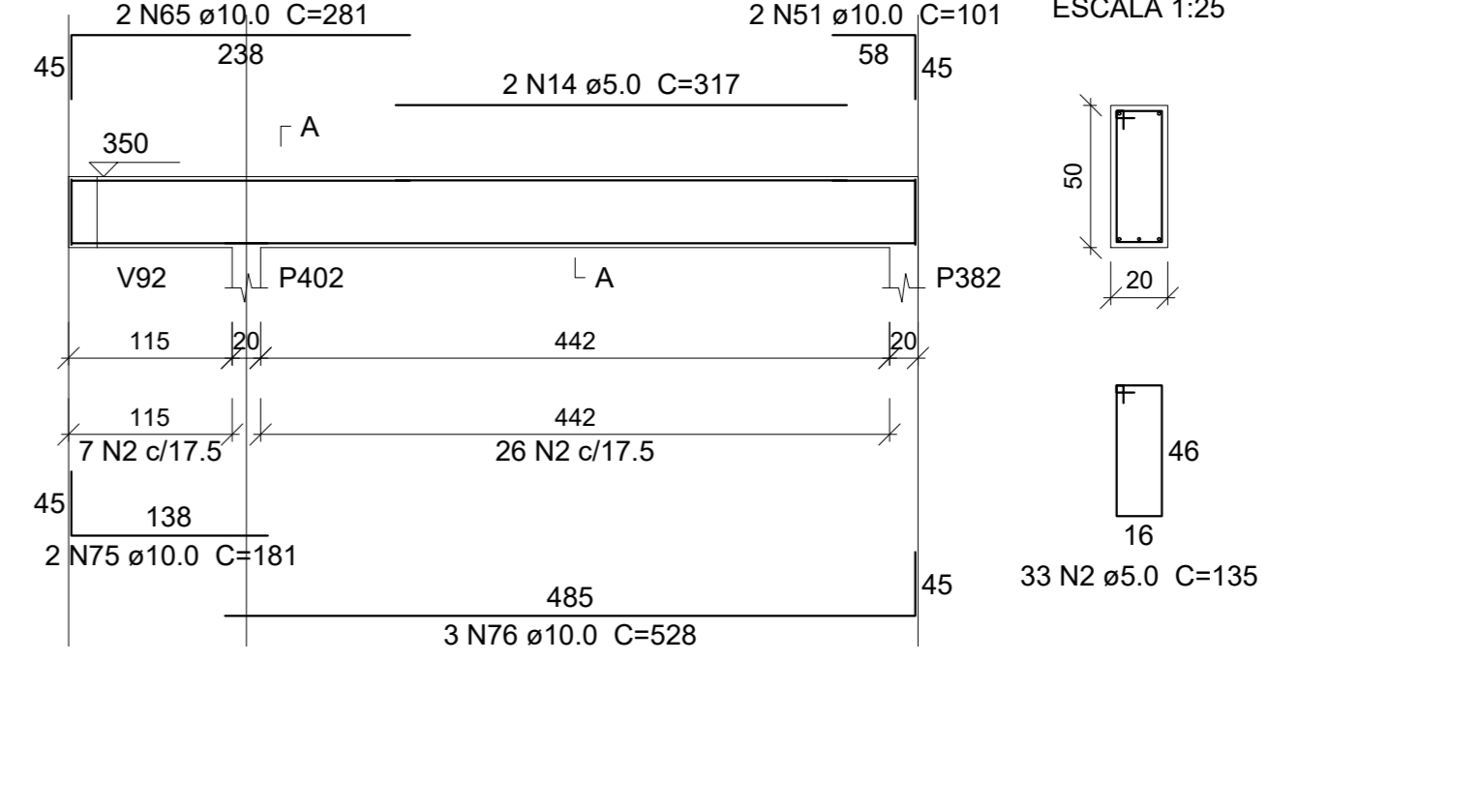
**V128**  
ESCALA 1:50



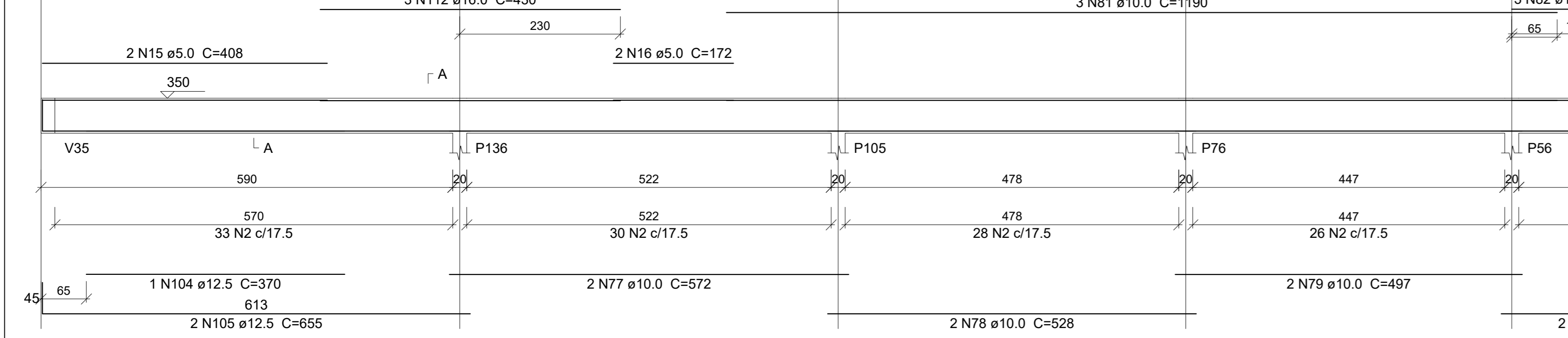
**V130**  
ESCALA 1:50



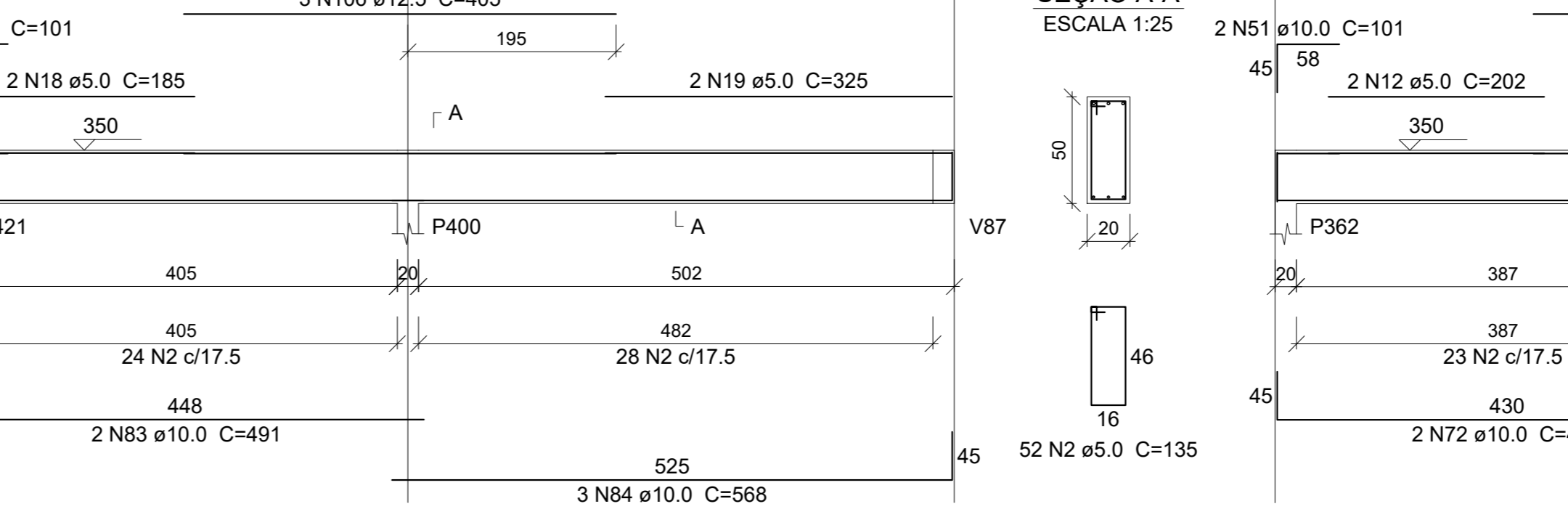
**V146**  
ESCALA 1:50



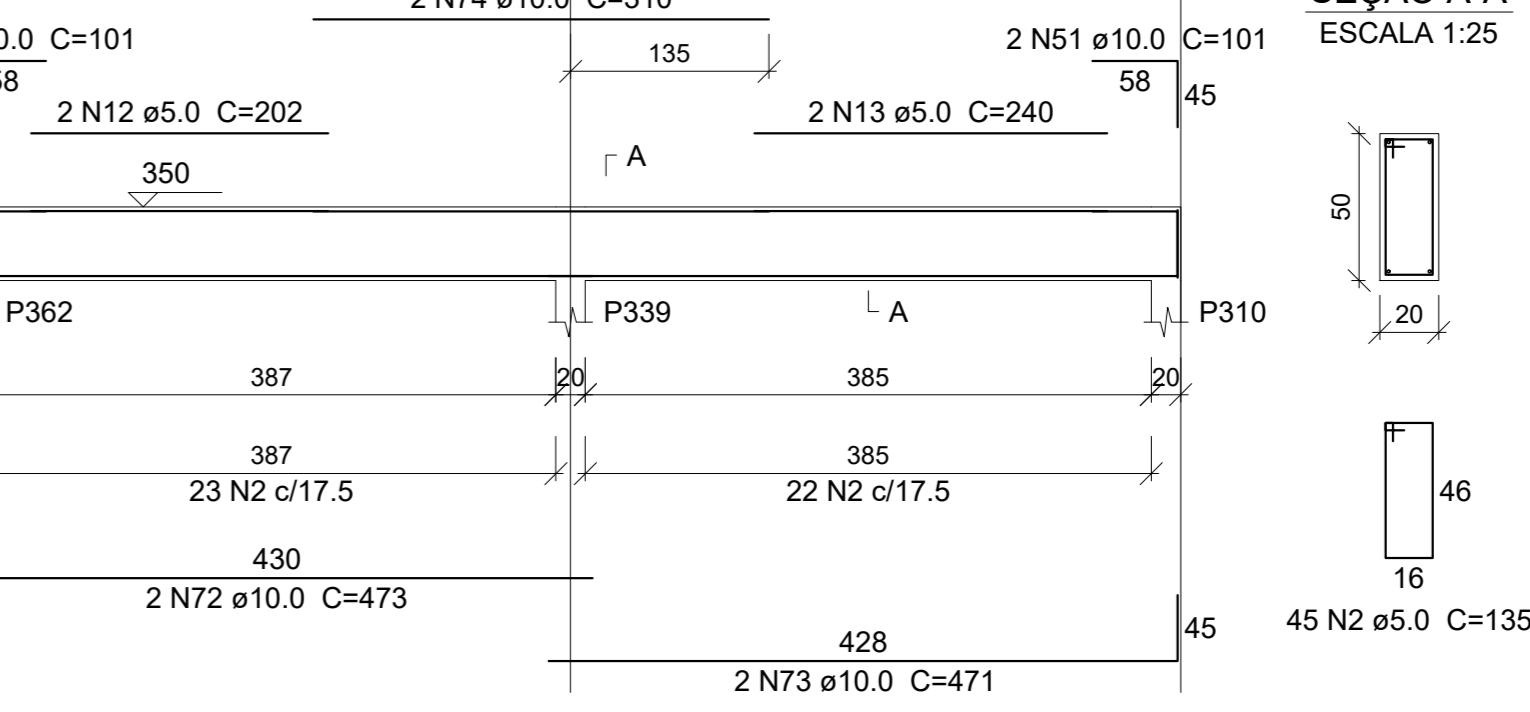
**V132**  
ESCALA 1:50



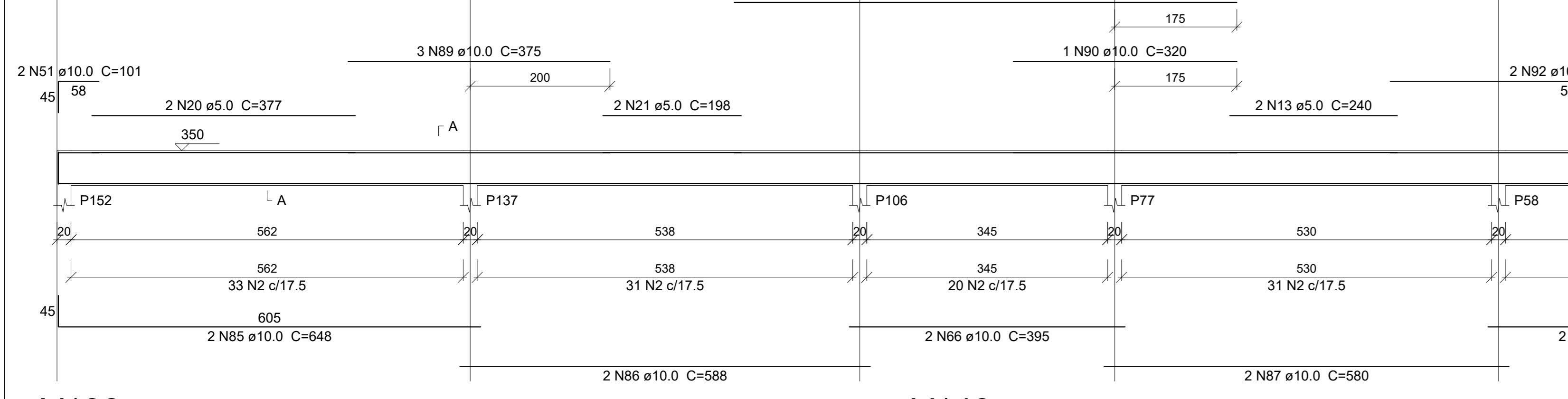
**V133**  
ESCALA 1:50



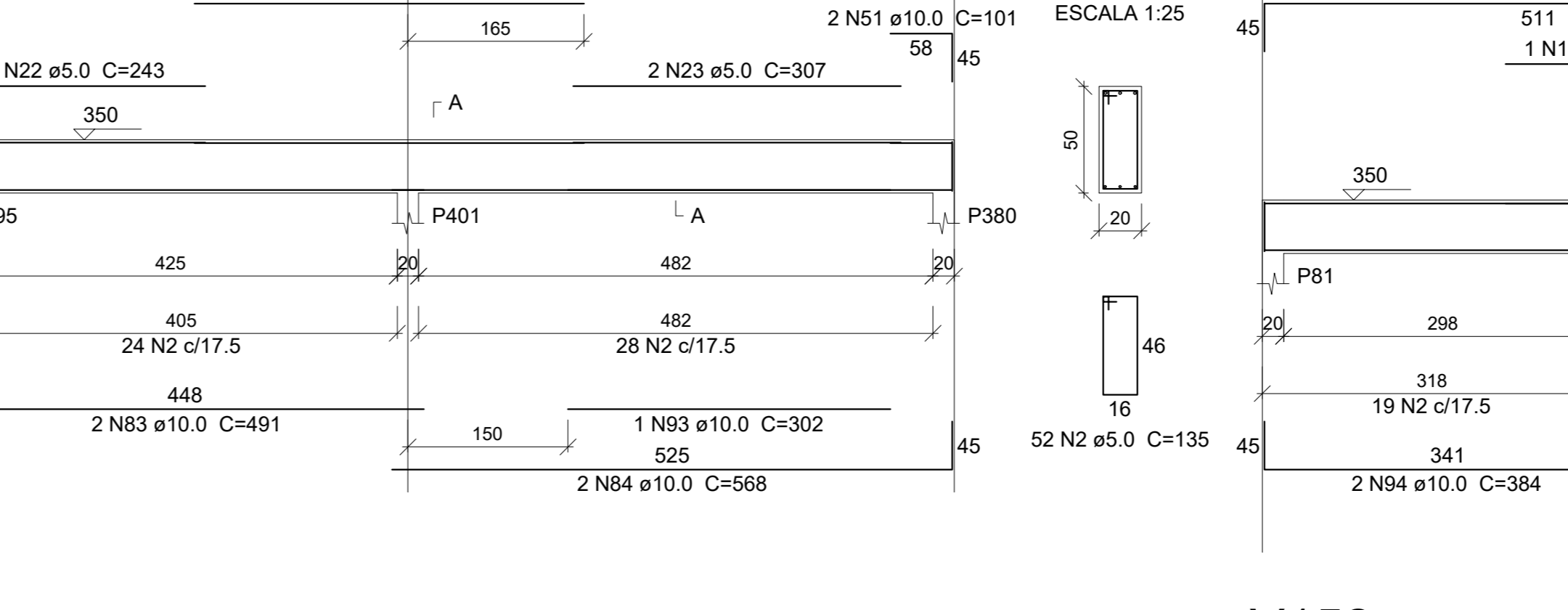
**V143**  
ESCALA 1:50



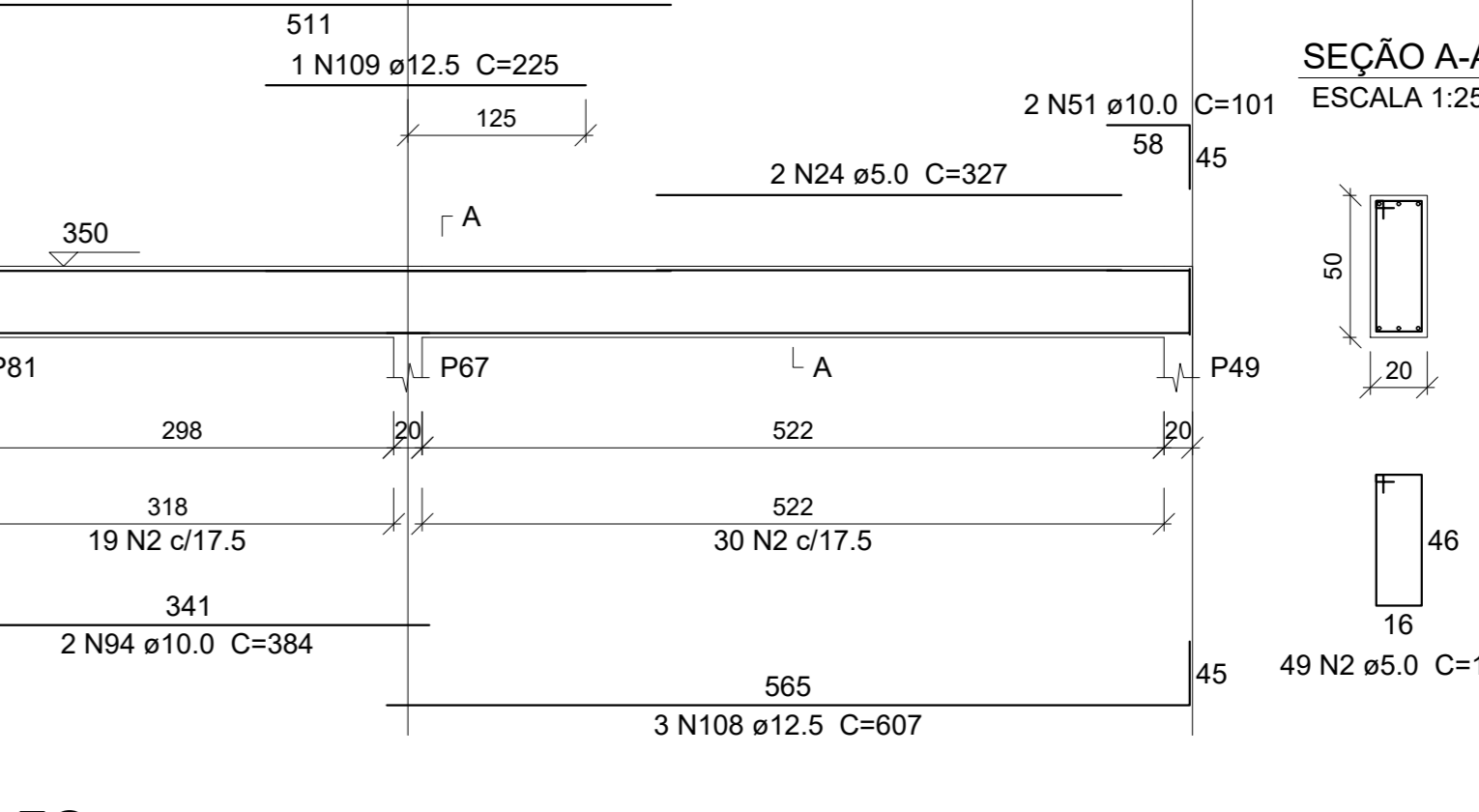
**V134**  
ESCALA 1:50



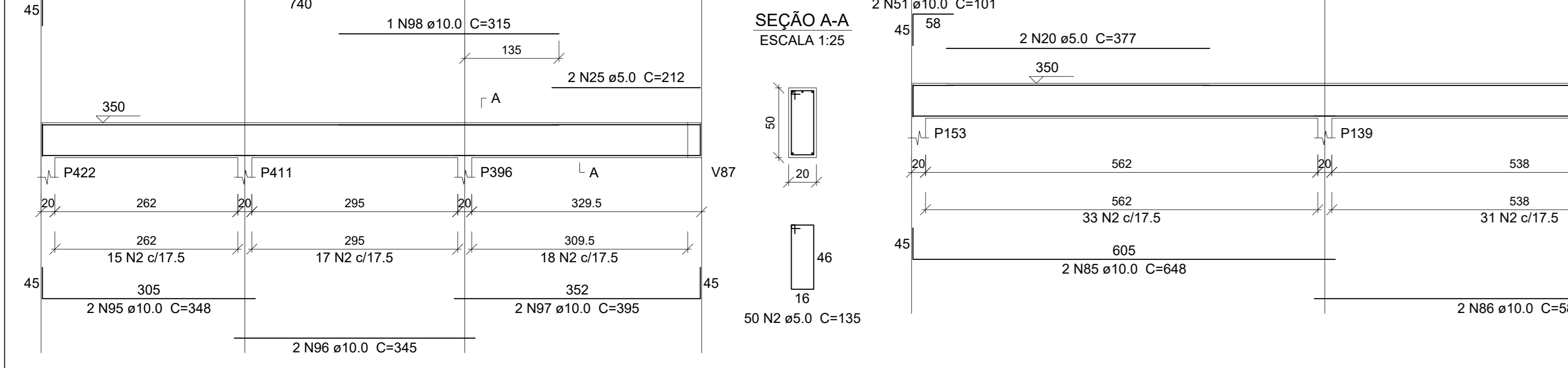
**V137**  
ESCALA 1:50



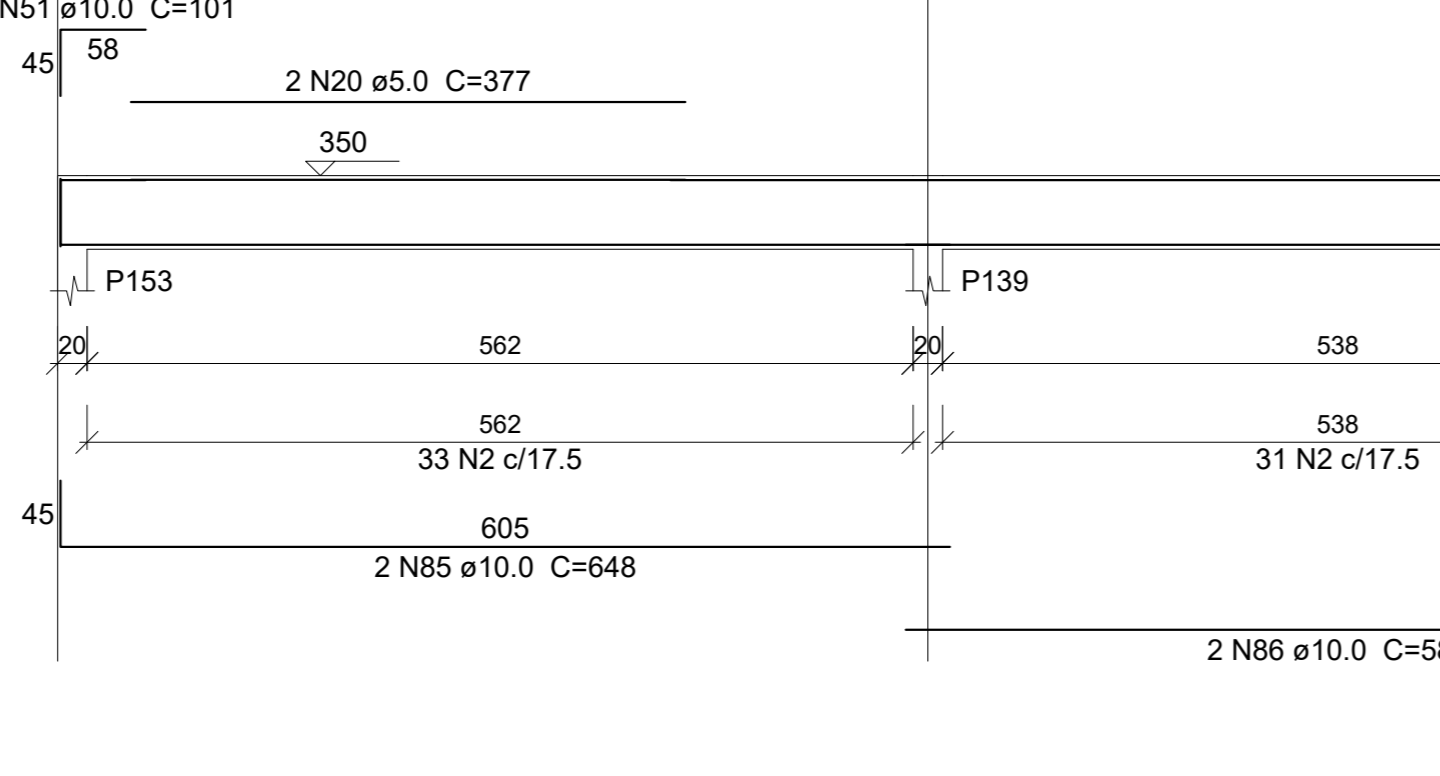
**V145**  
ESCALA 1:50



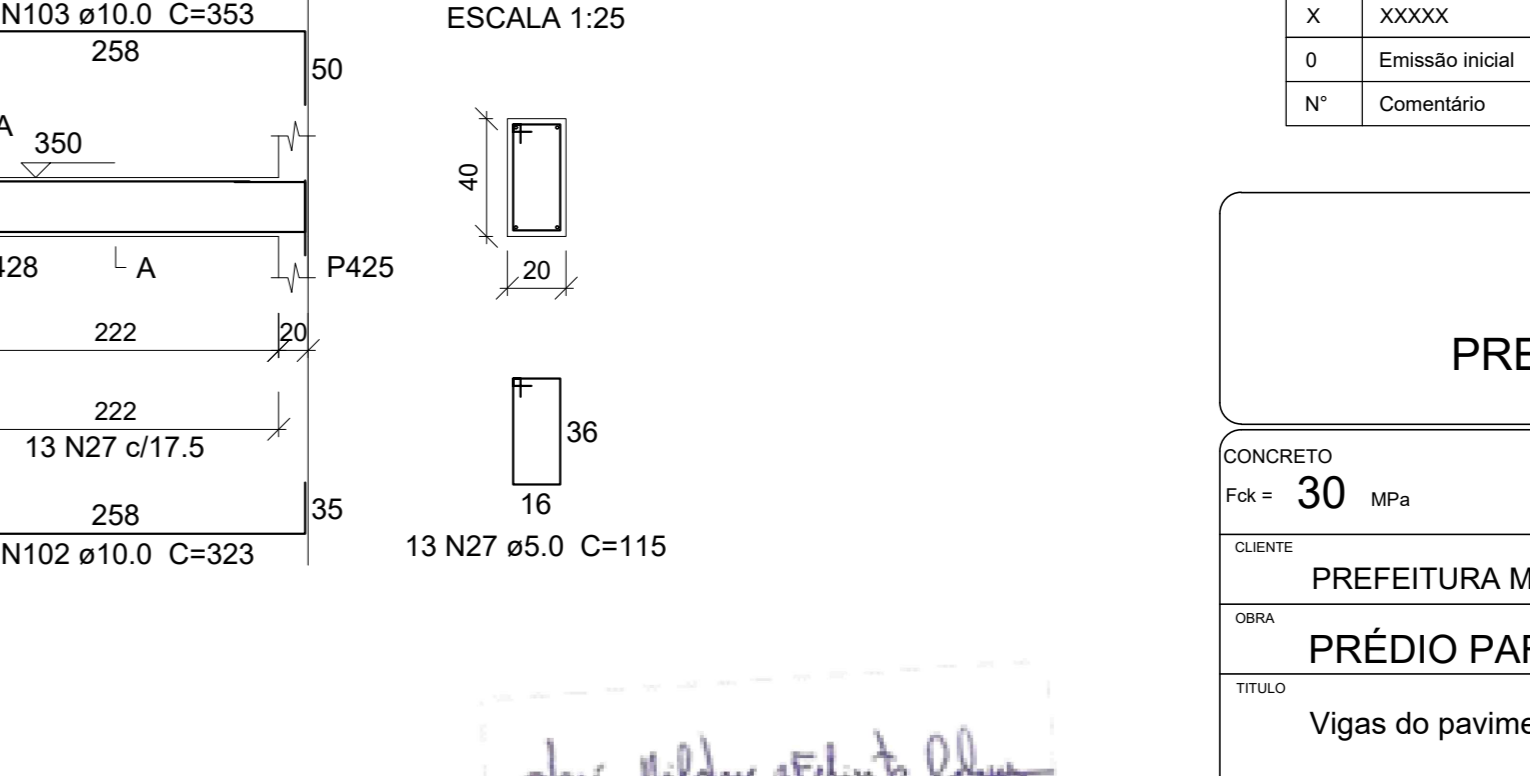
**V138**  
ESCALA 1:50



**V140**  
ESCALA 1:50



**V152**  
ESCALA 1:50



**Resumo do aço**

CAÇO	DIAM (mm)	C.TOTAL (m)	PESO (kg)
CA50	6.3	32.2	7.9
	8.0	196	77.3
	10.0	769.4	474.4
	12.5	71.5	68.8
	16.0	21.7	34.2
	5.0	1867.9	287.9
<b>PESO TOTAL (kg)</b>			
CA50		662.6	
CA60		287.9	

Volume de concreto (C-30) = 21.46 m³  
Área de forma = 234.51 m²

Revisões da prancha

Nº	Descrição	Por	Data
1			
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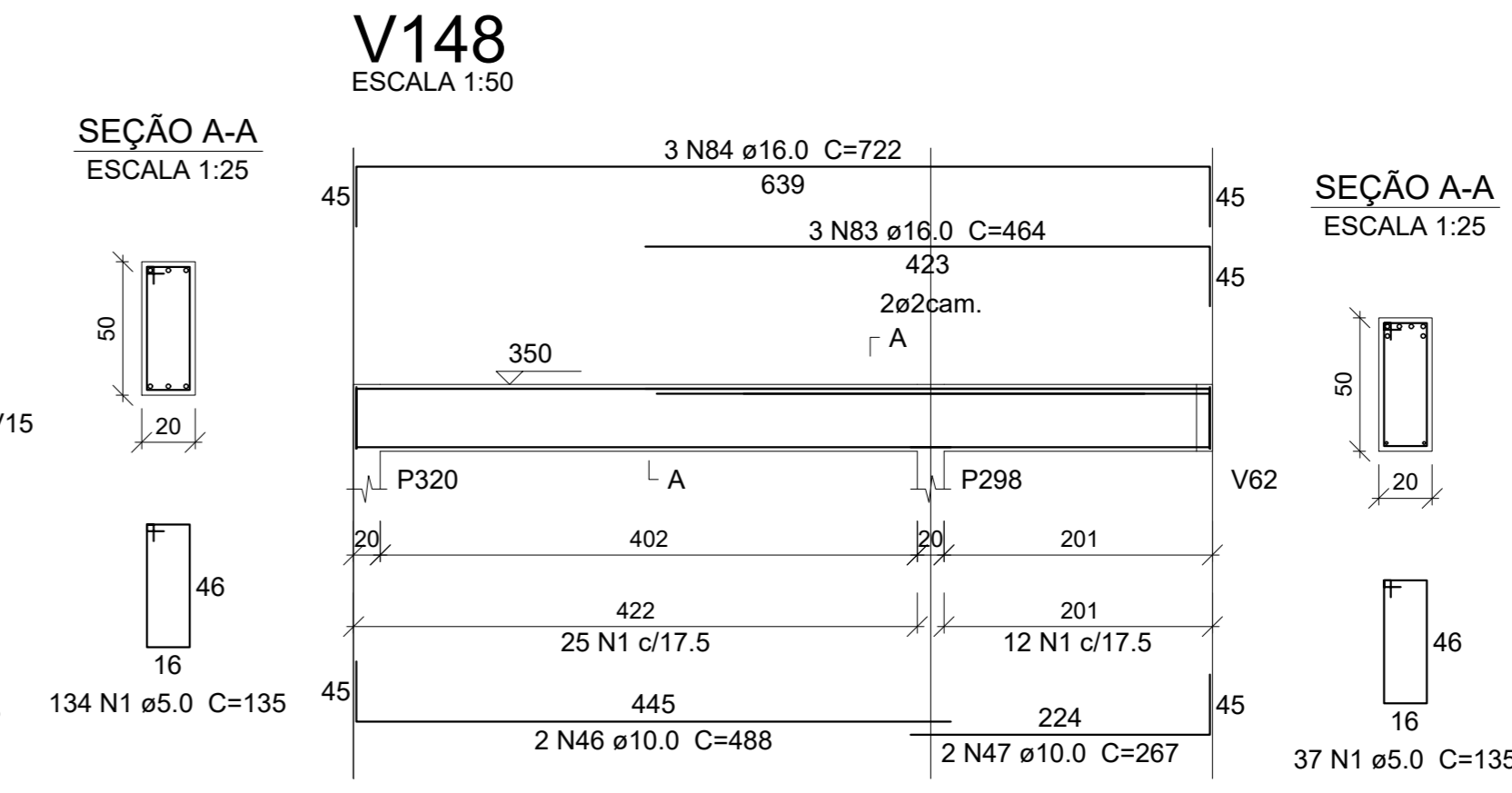
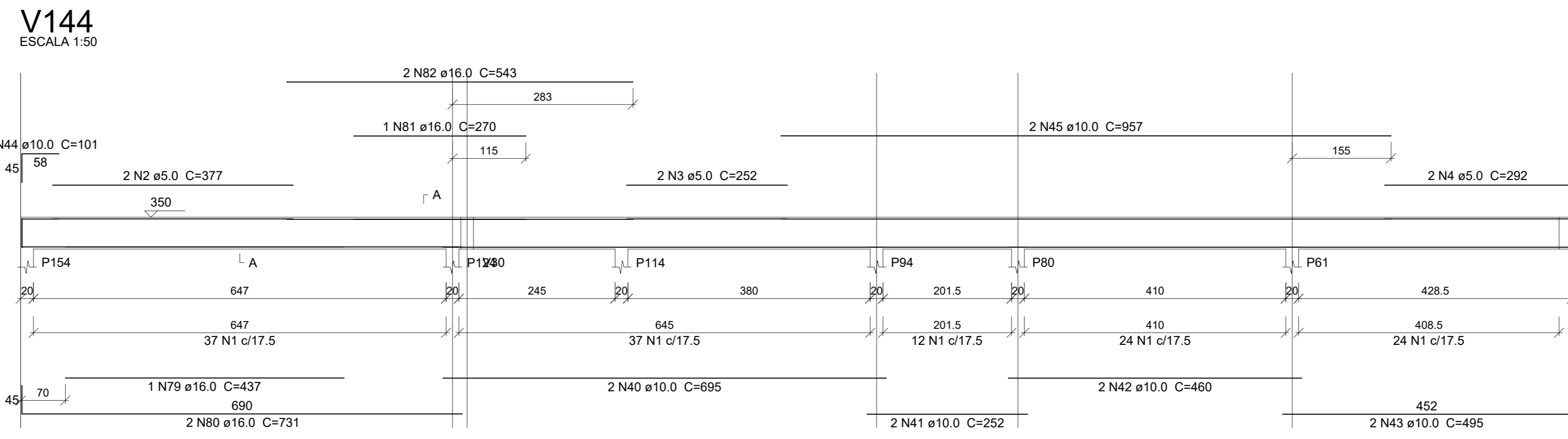
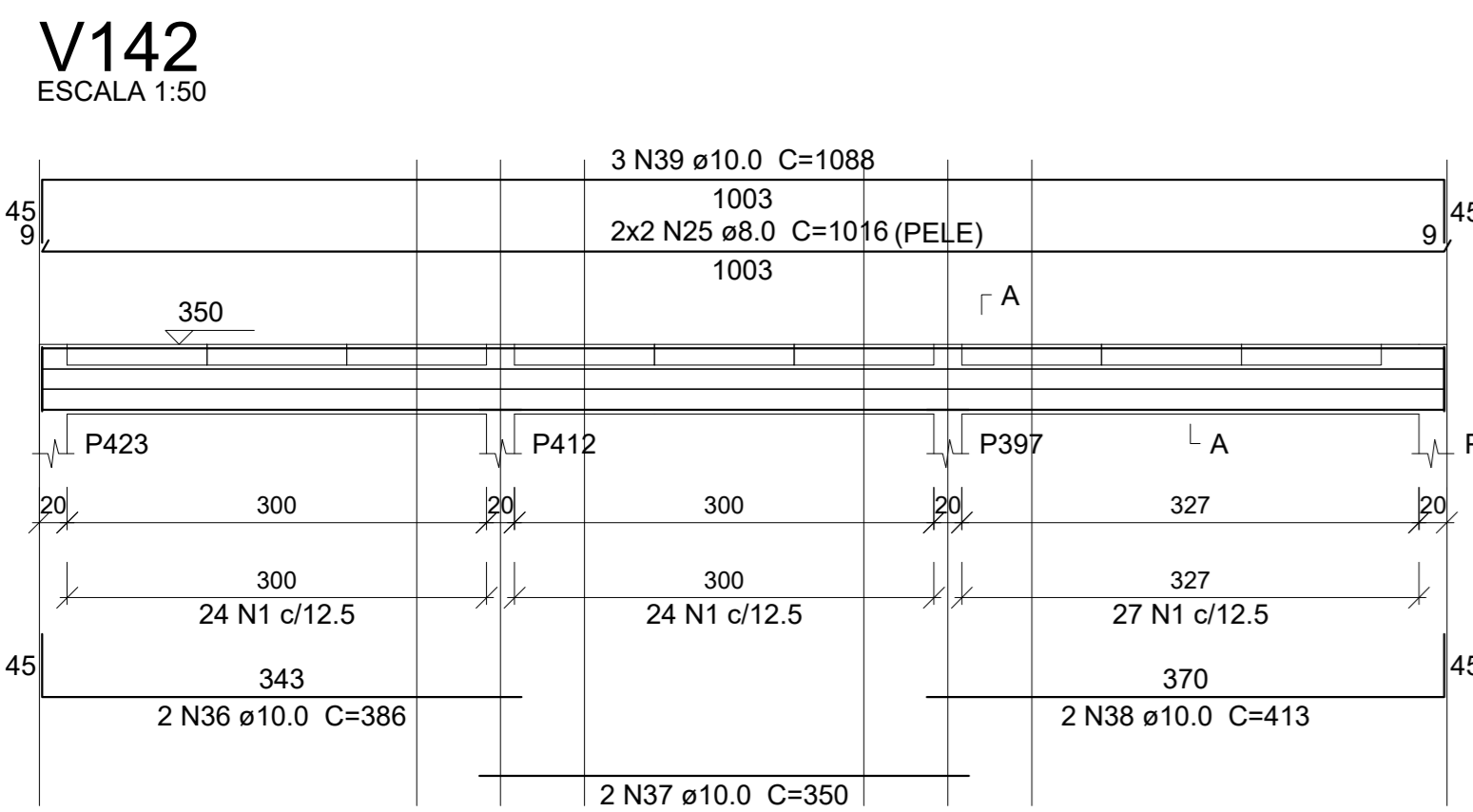
**ESTADO DO CEARÁ**  
**PREFEITURA MUNICIPAL DE QUIXADÁ**

CONCRETO: Fc = 30 MPa  
AÇO: CA50  
PREFEITURA MUNICIPAL DE QUIXADÁ - CE  
PRÉDIO PARA USO HOSPITALAR  
Vigas do pavimento LAJE DE FORRO

22  
26  
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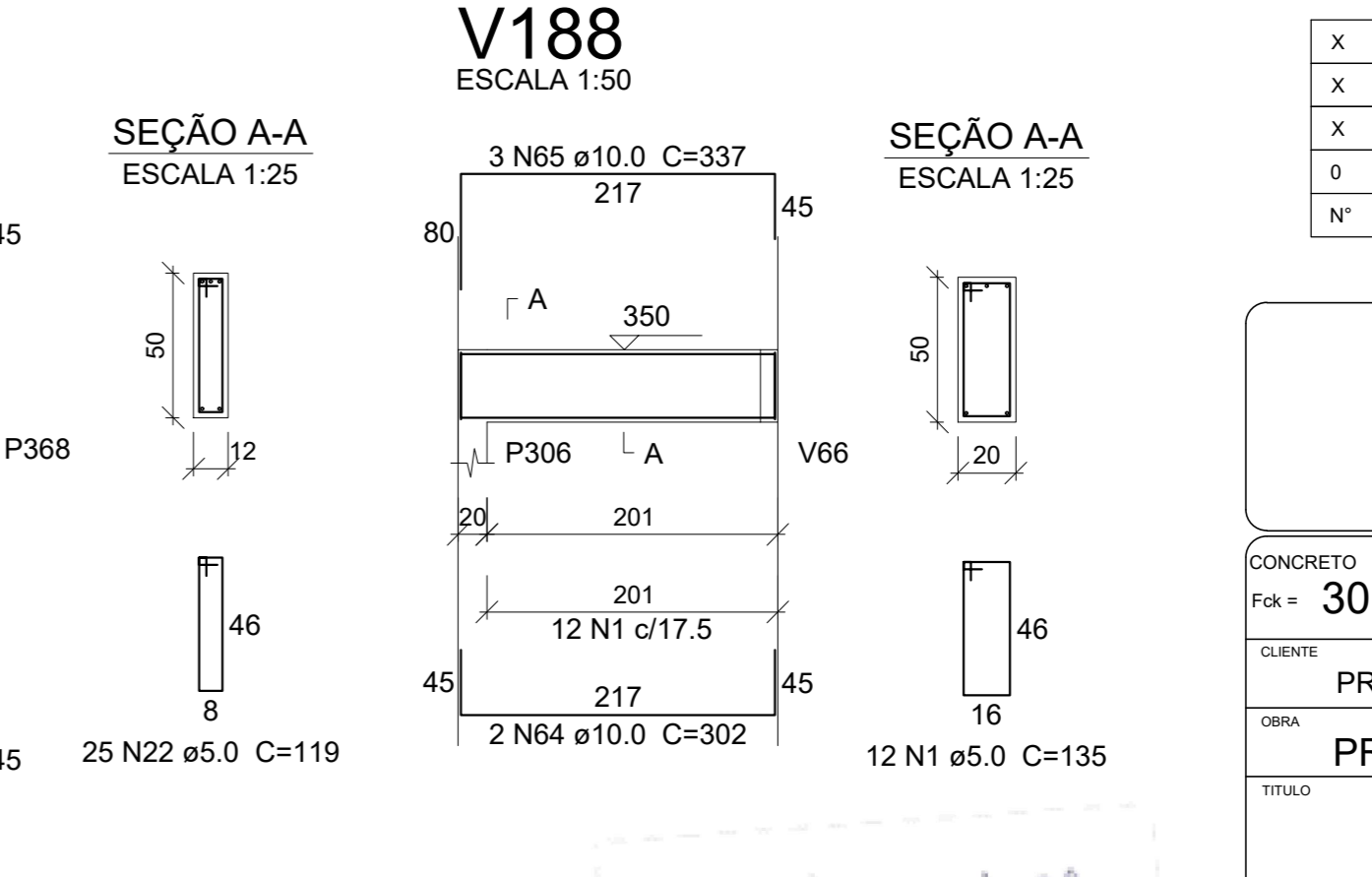
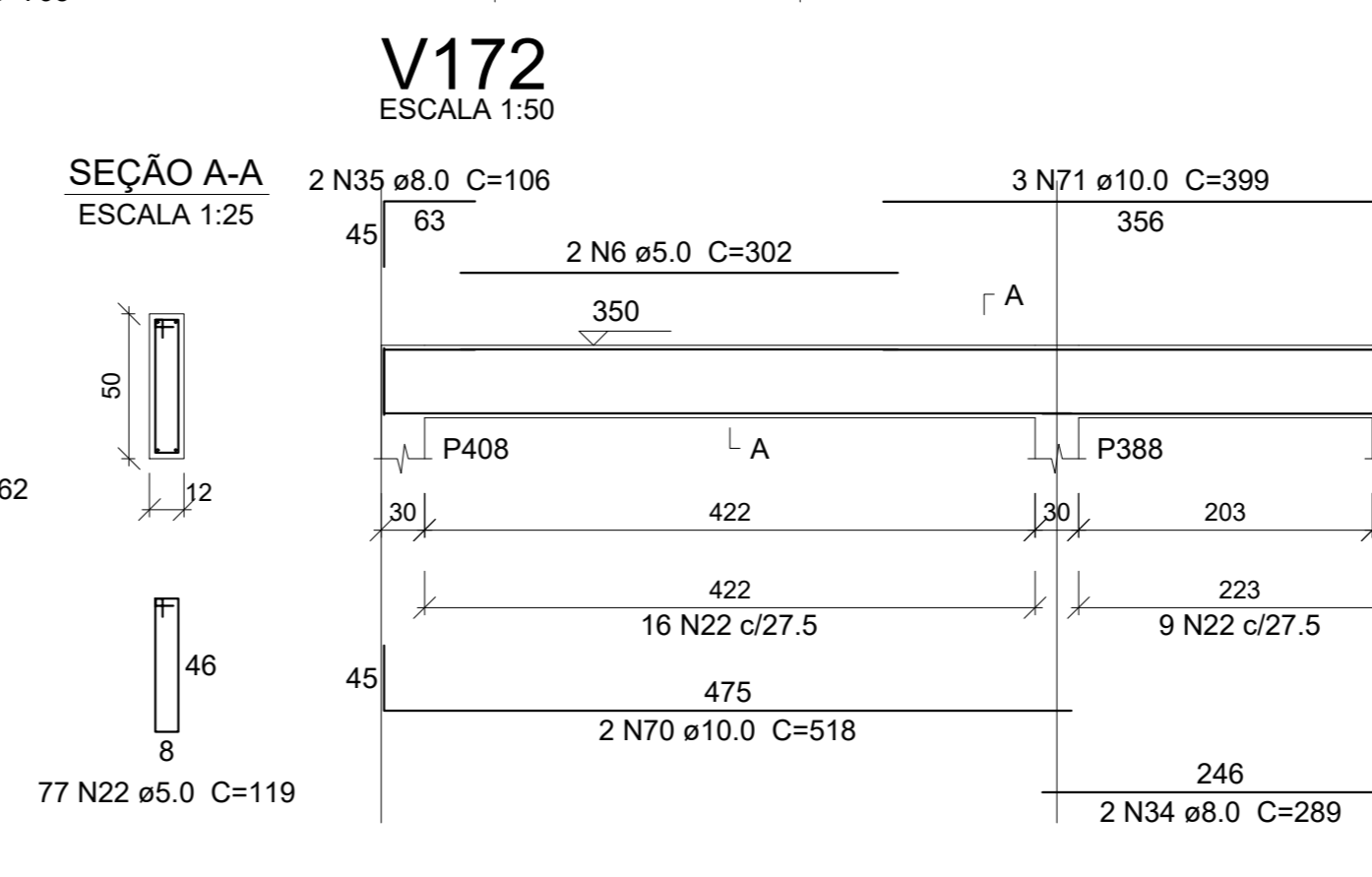
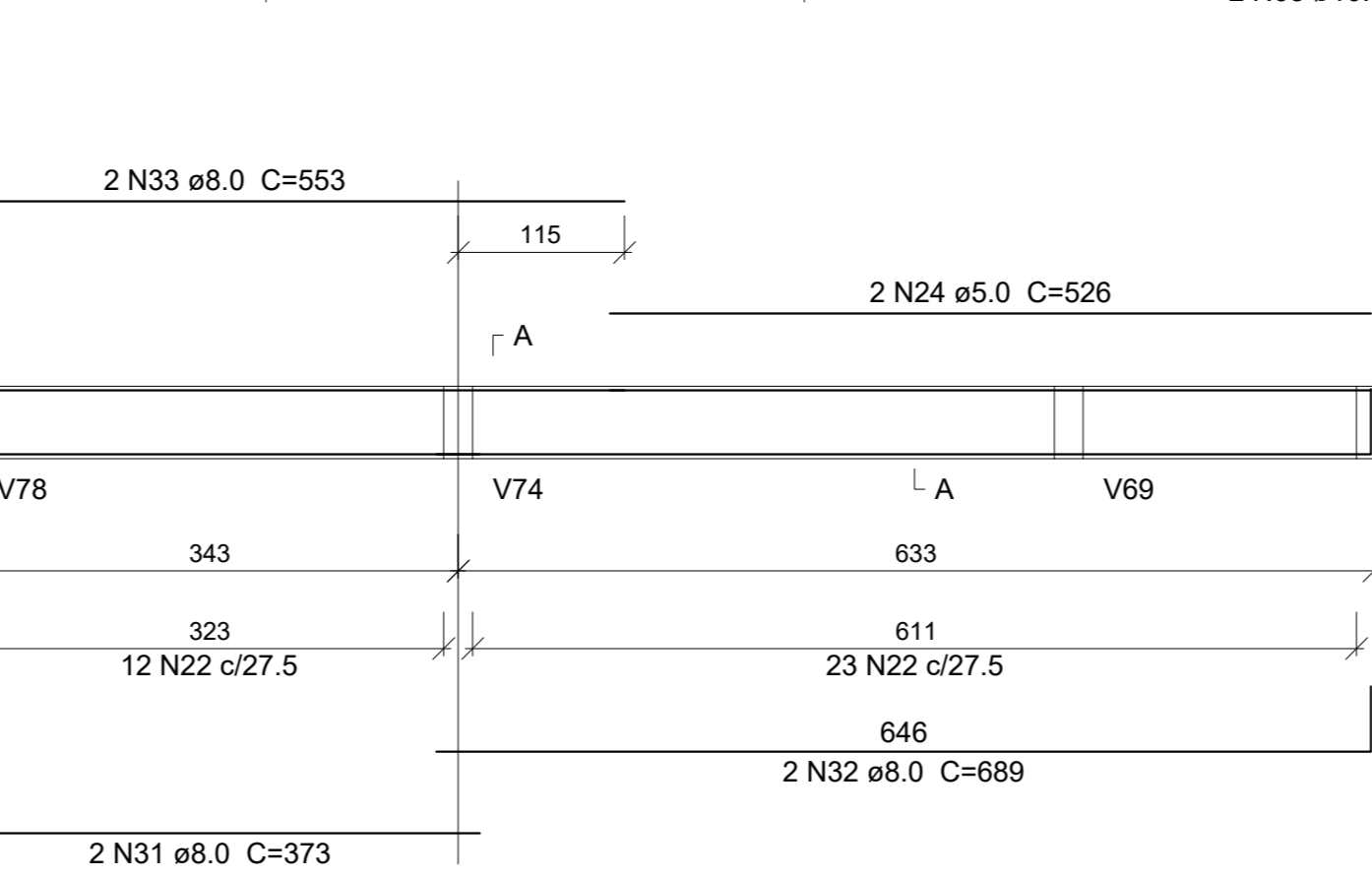
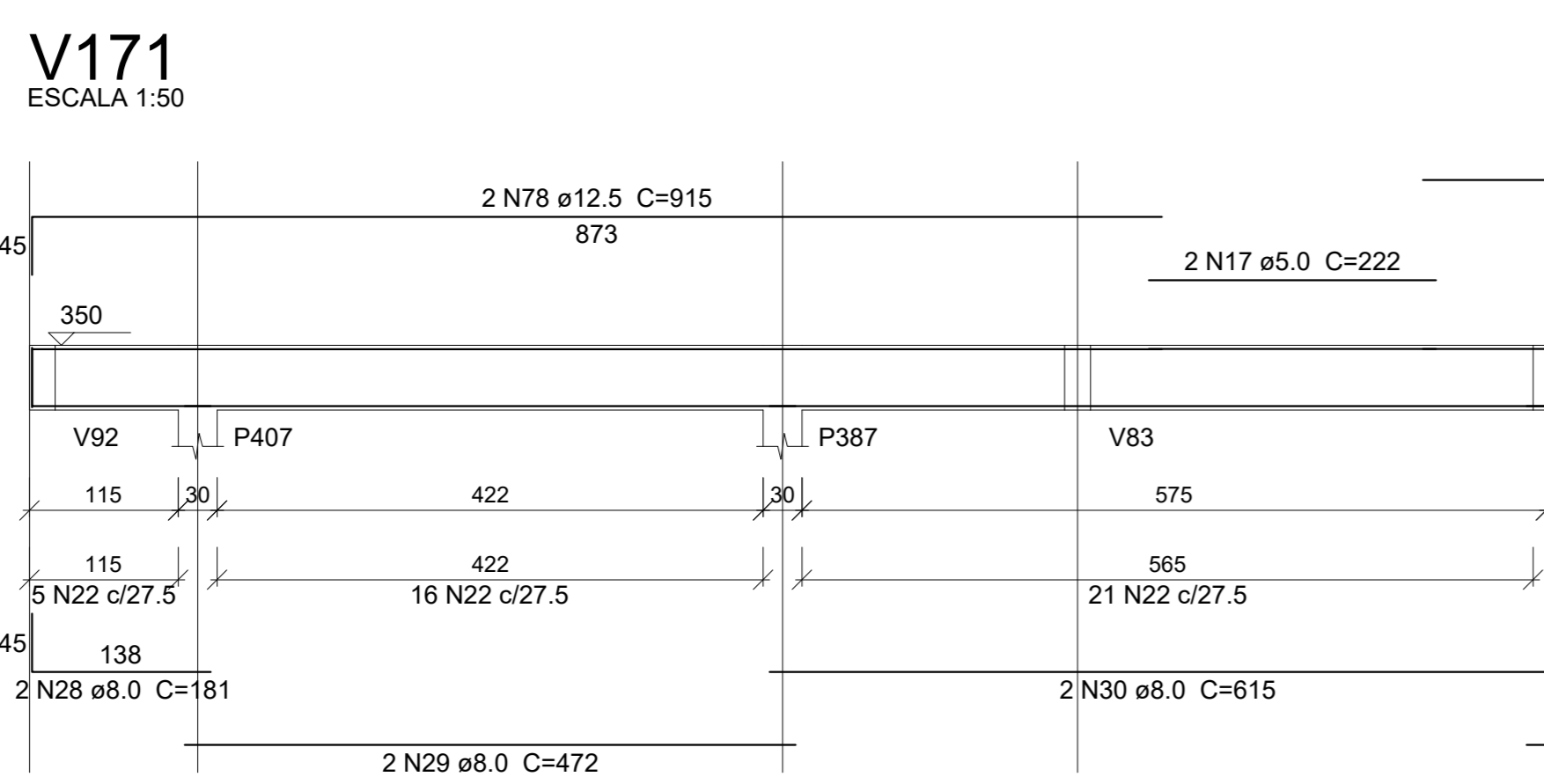
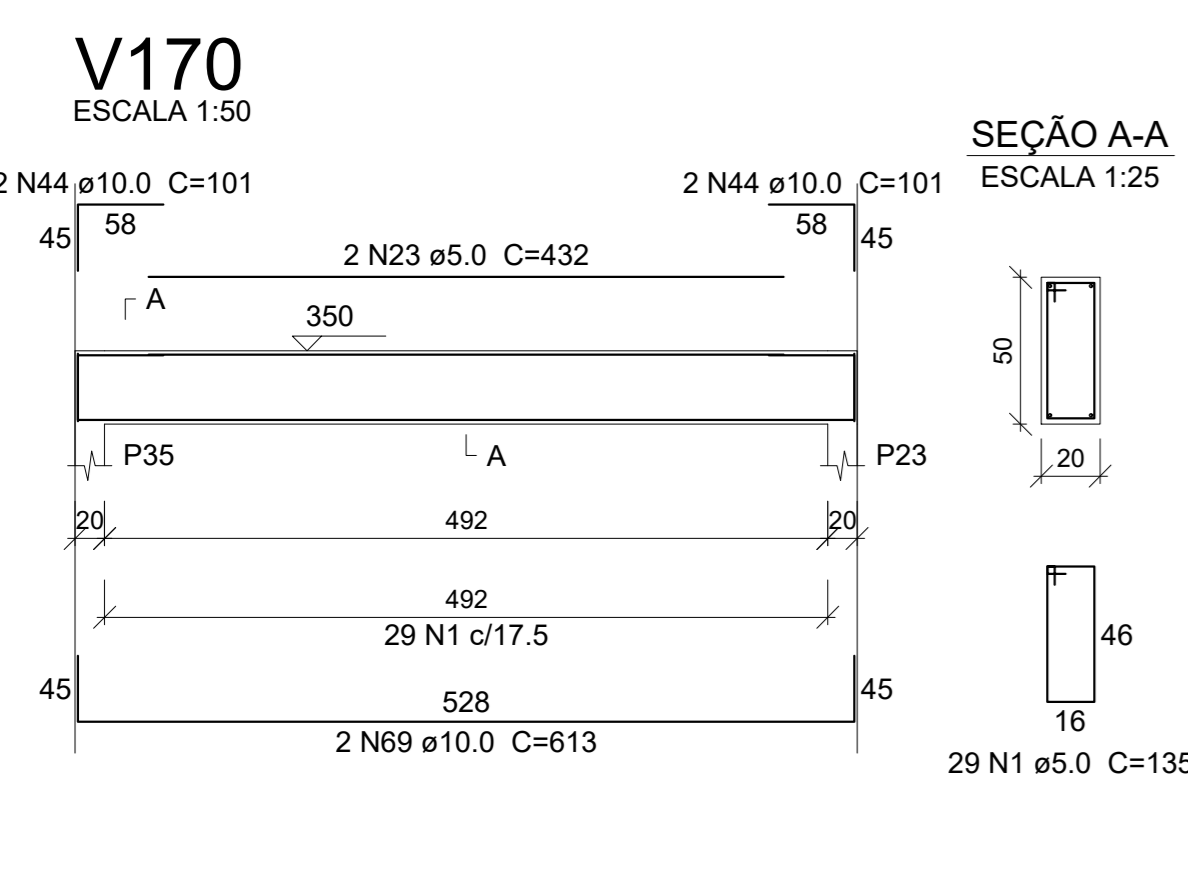
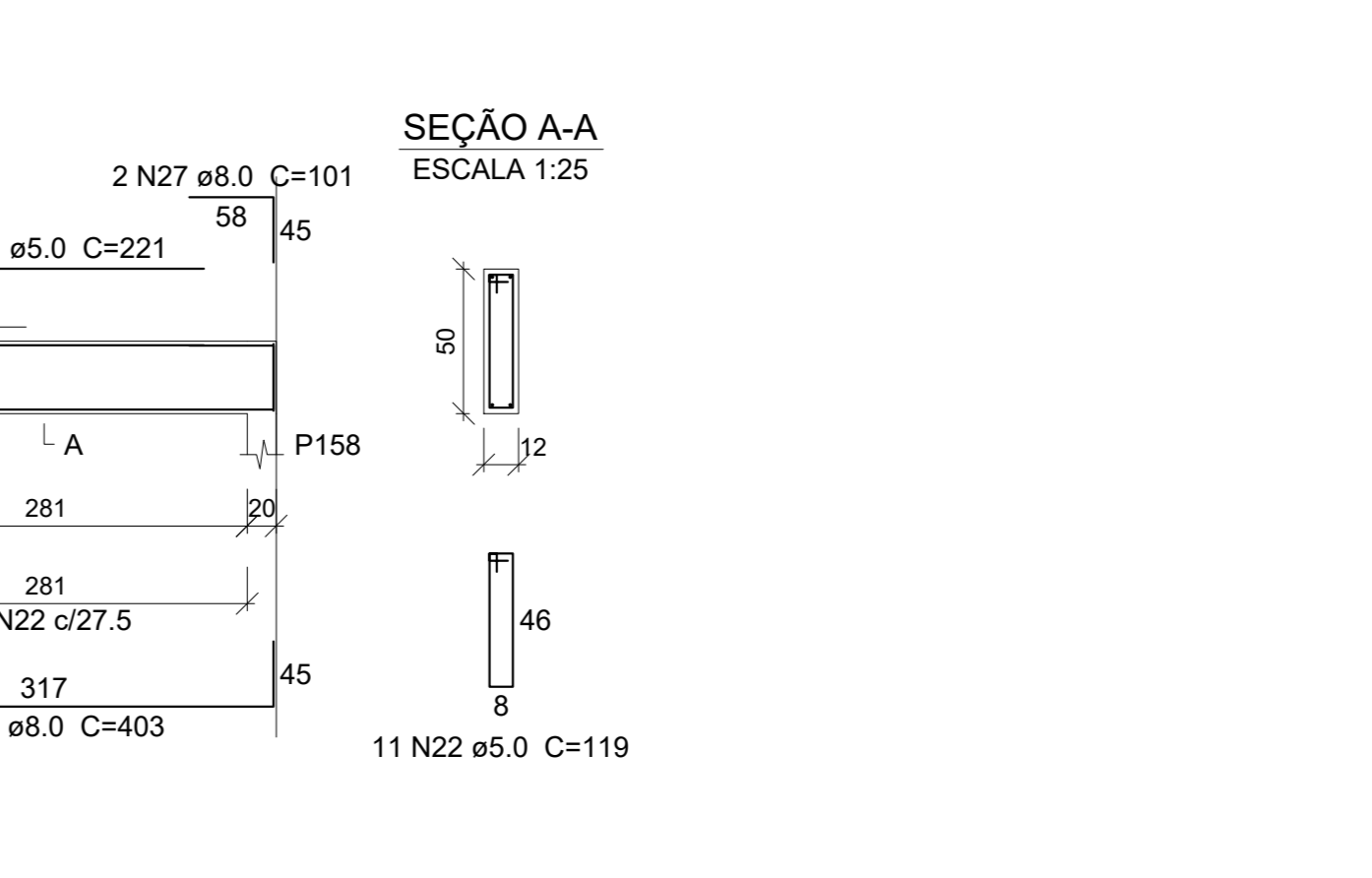
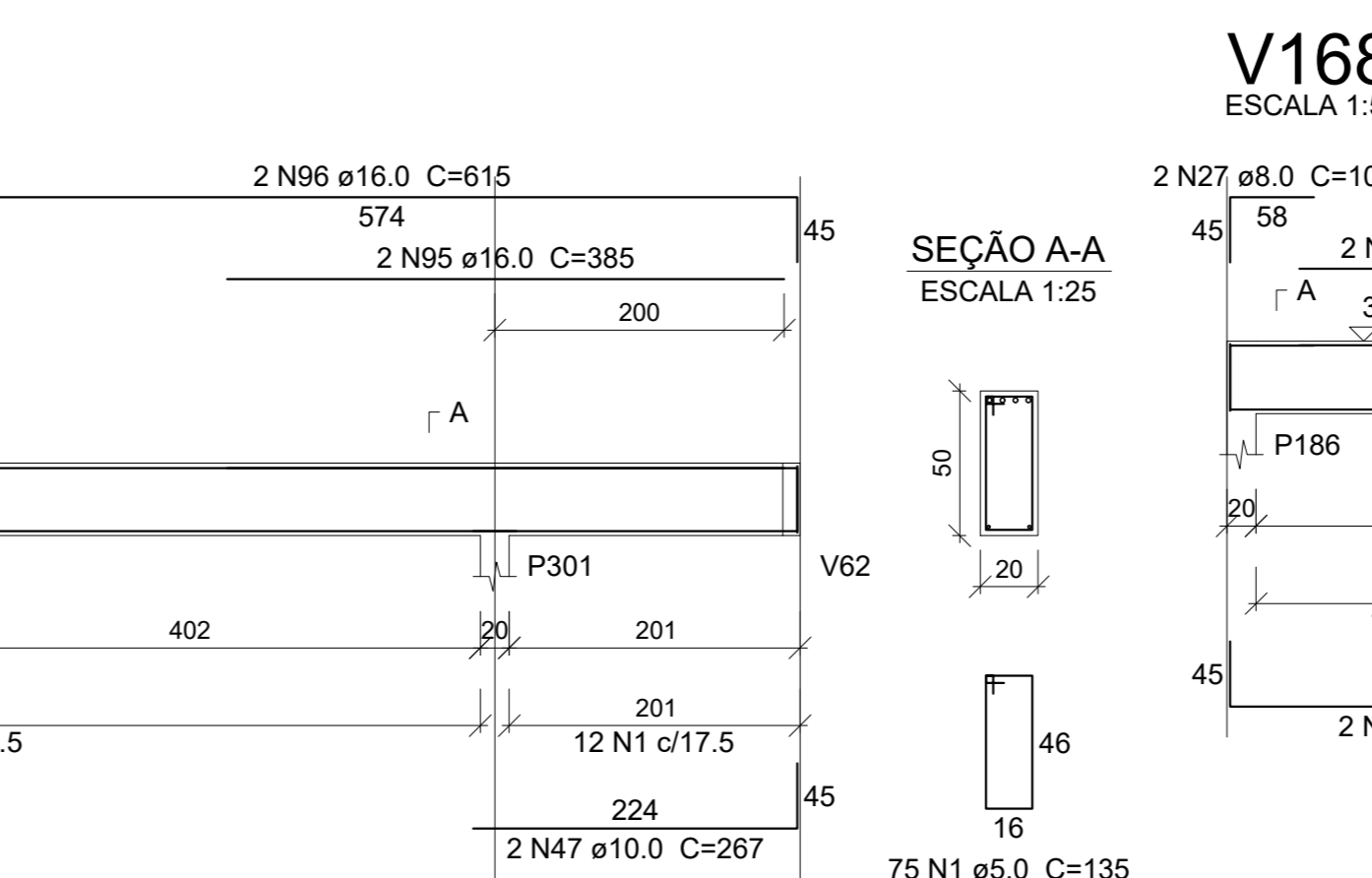
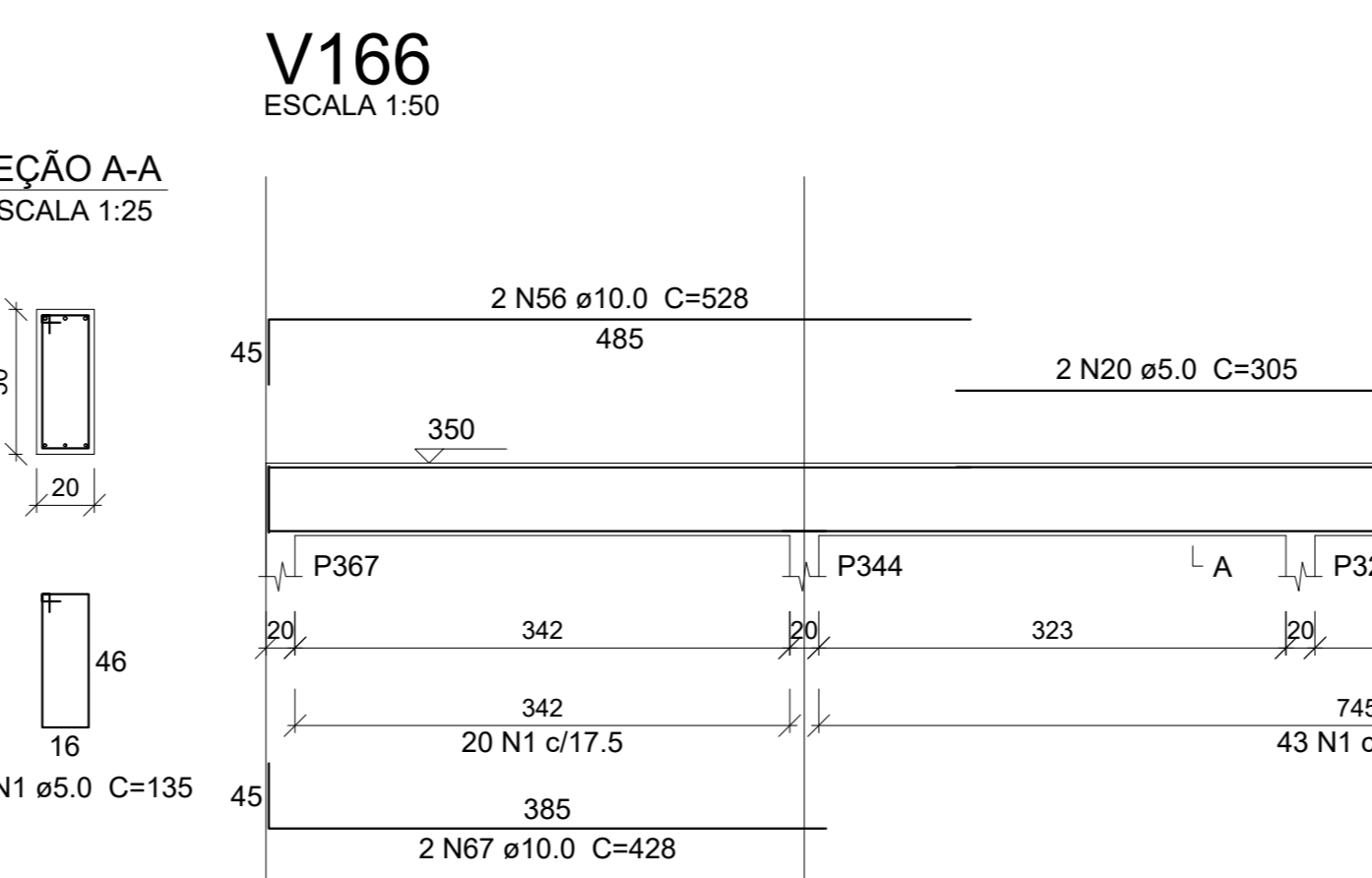
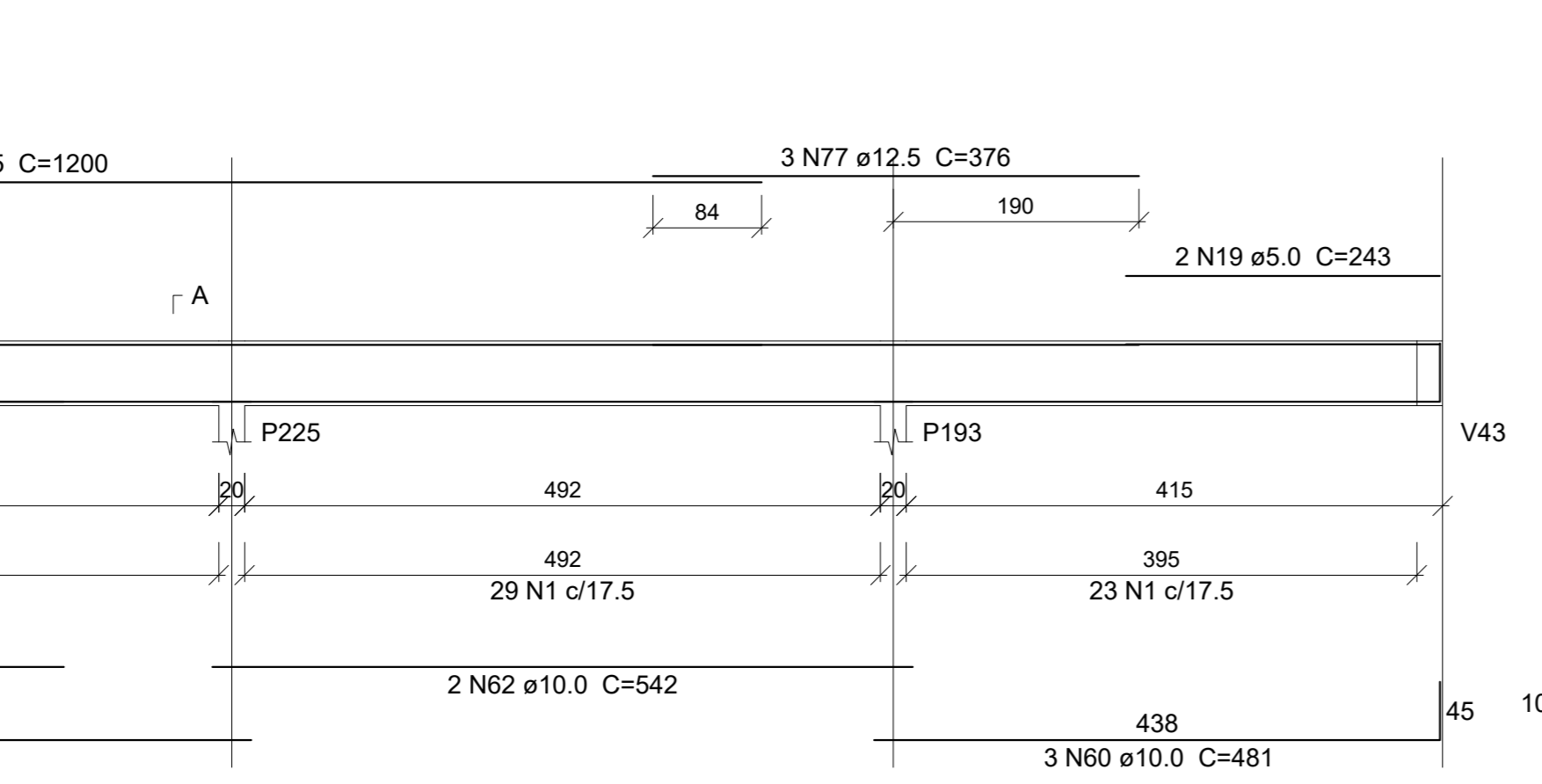
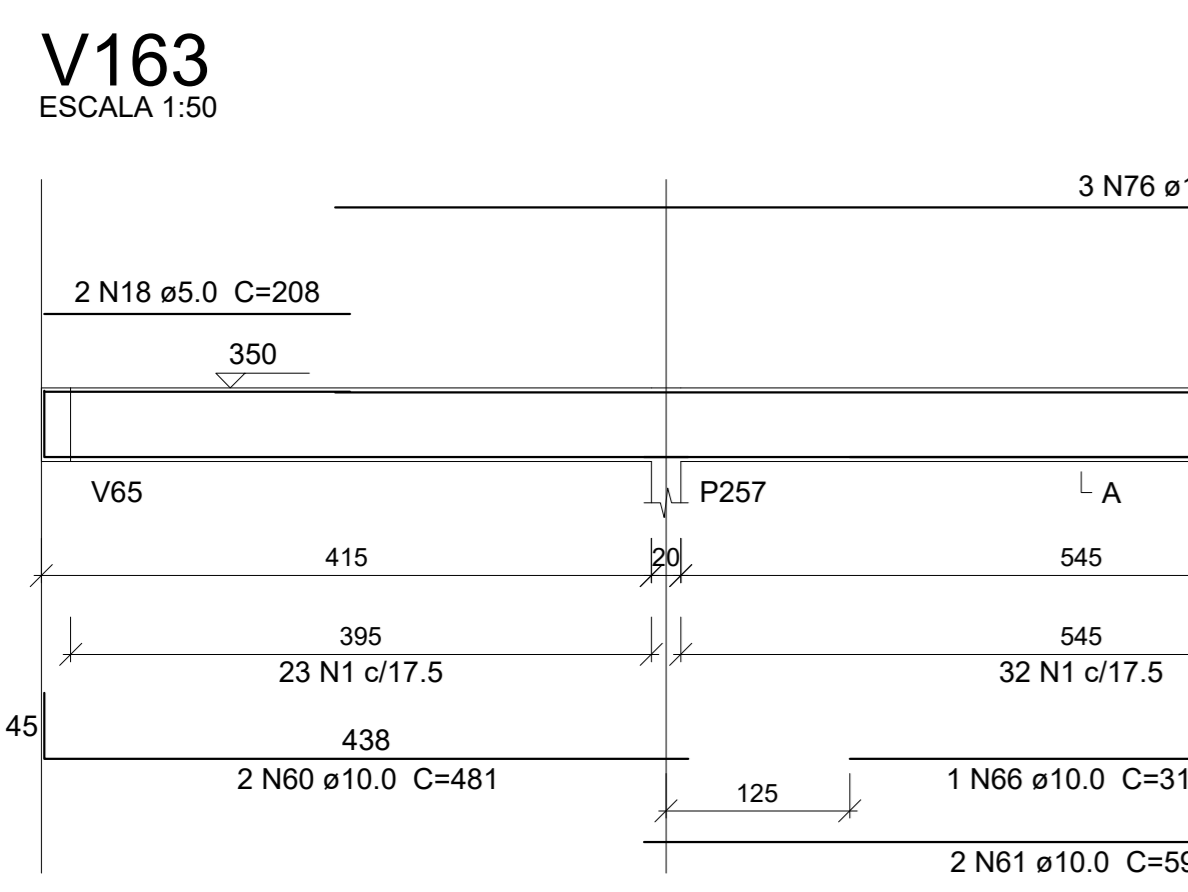
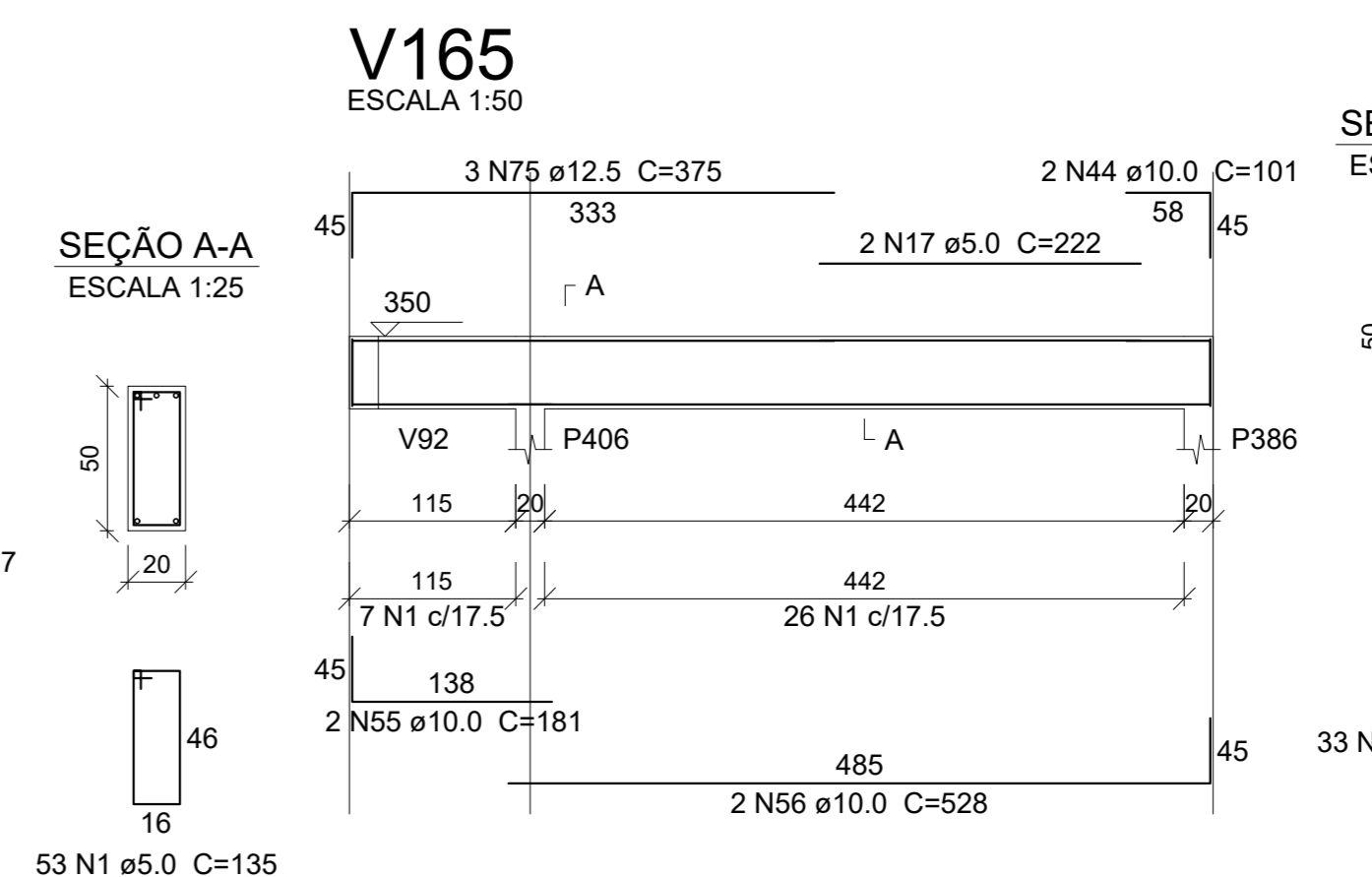
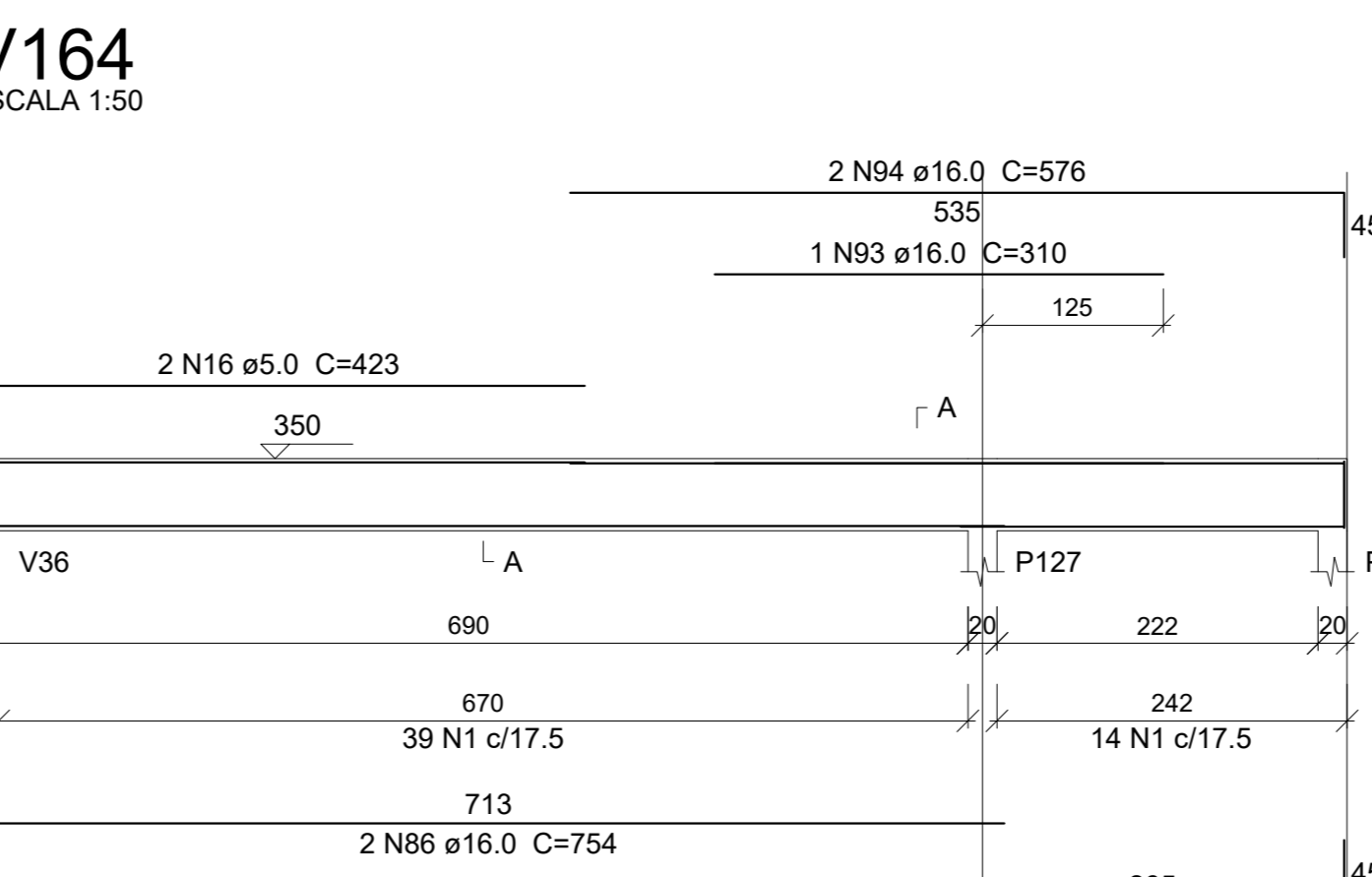
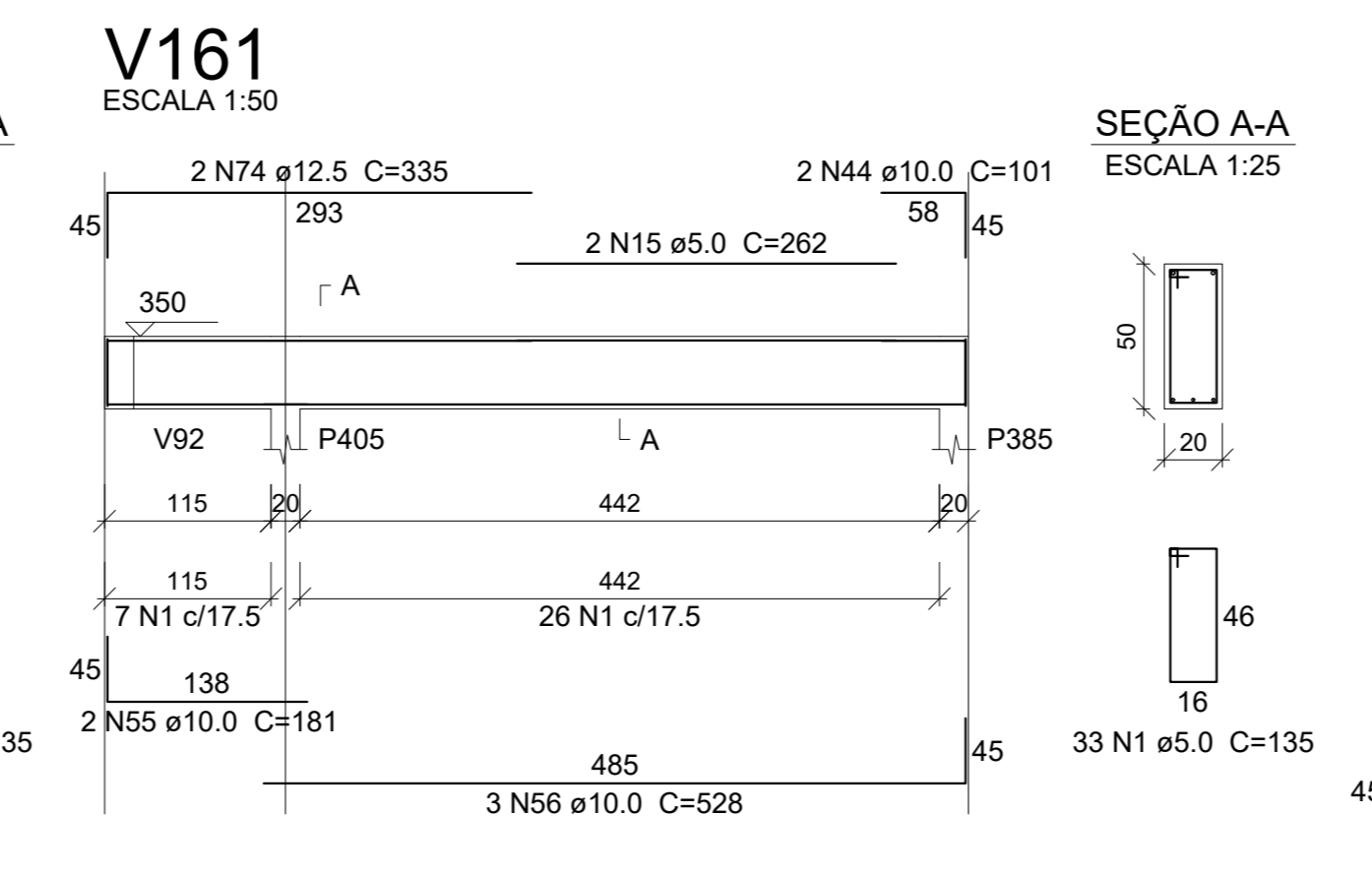
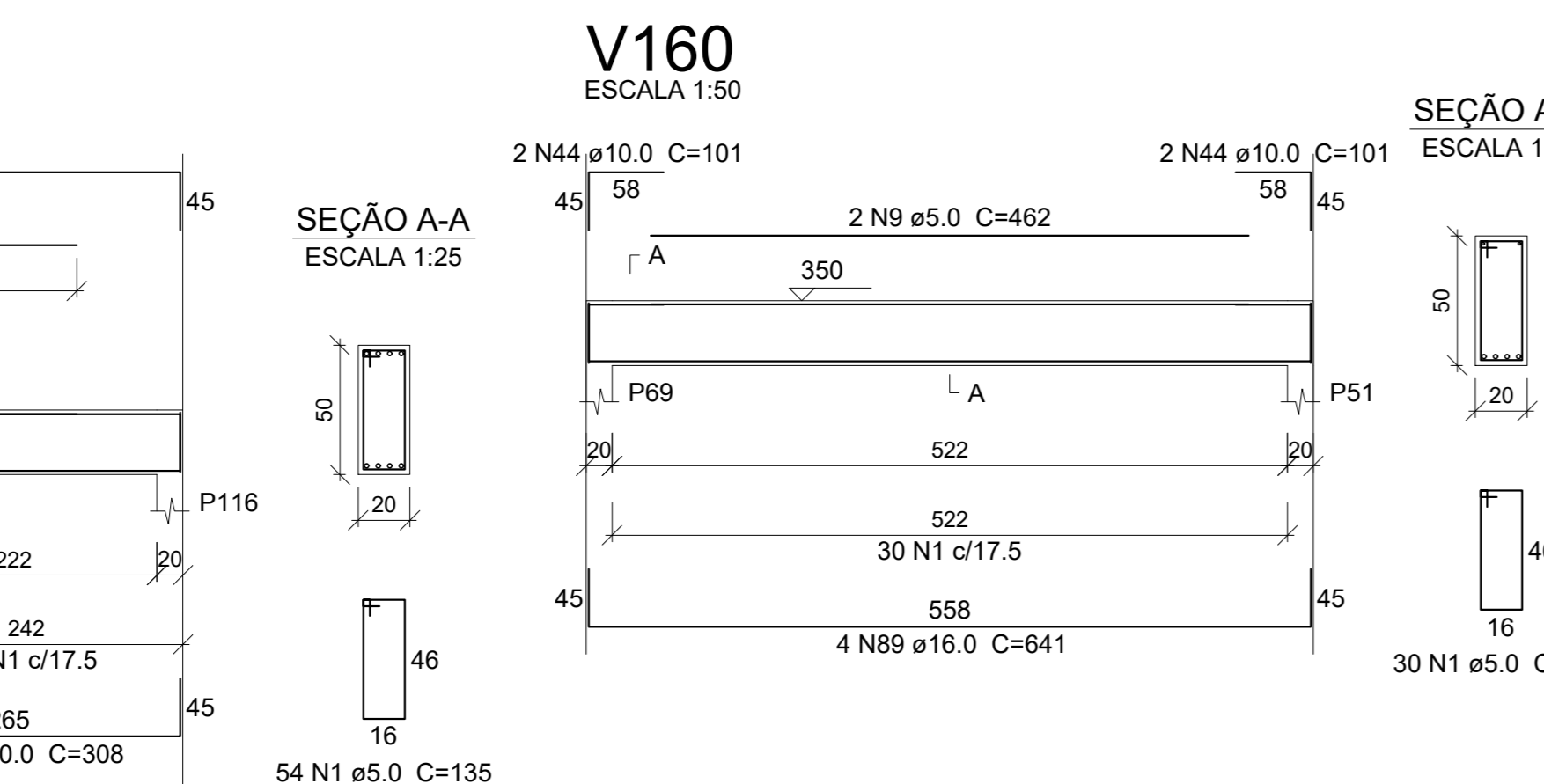
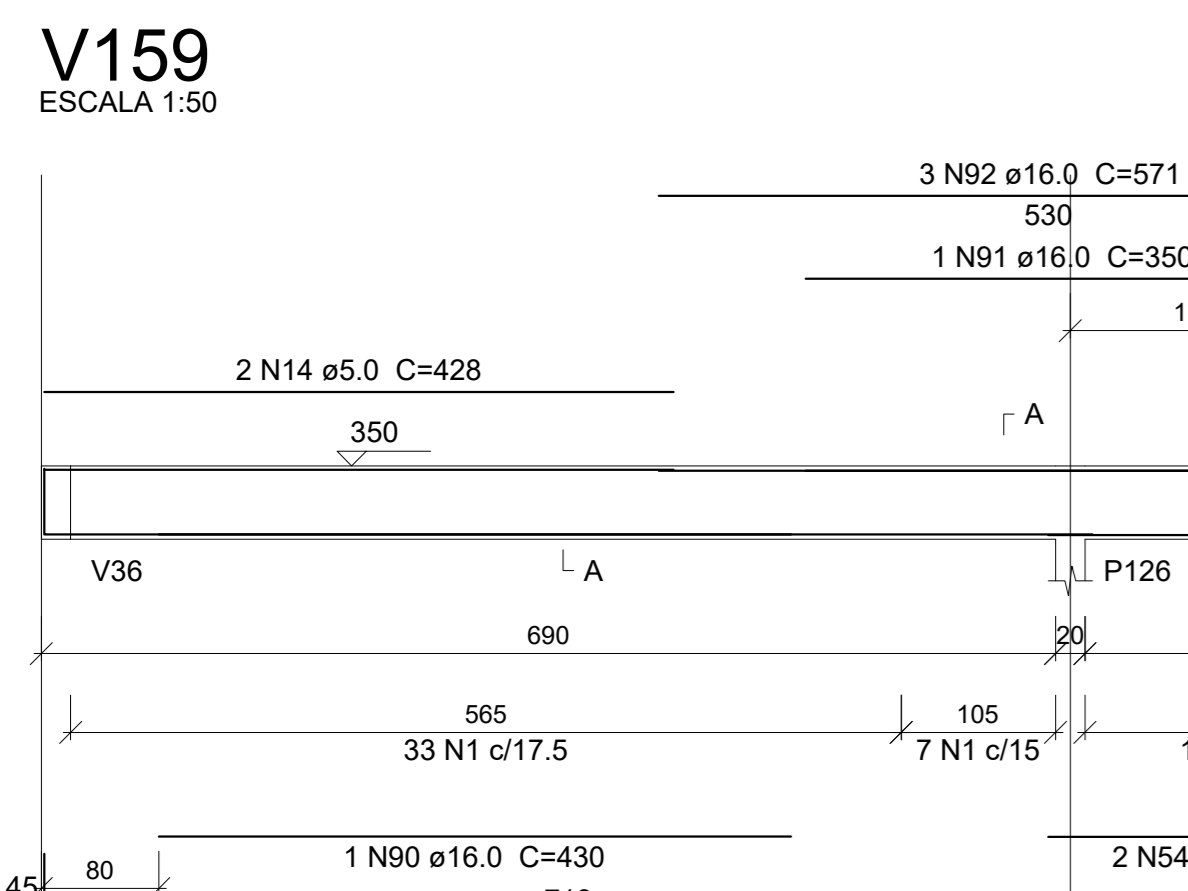
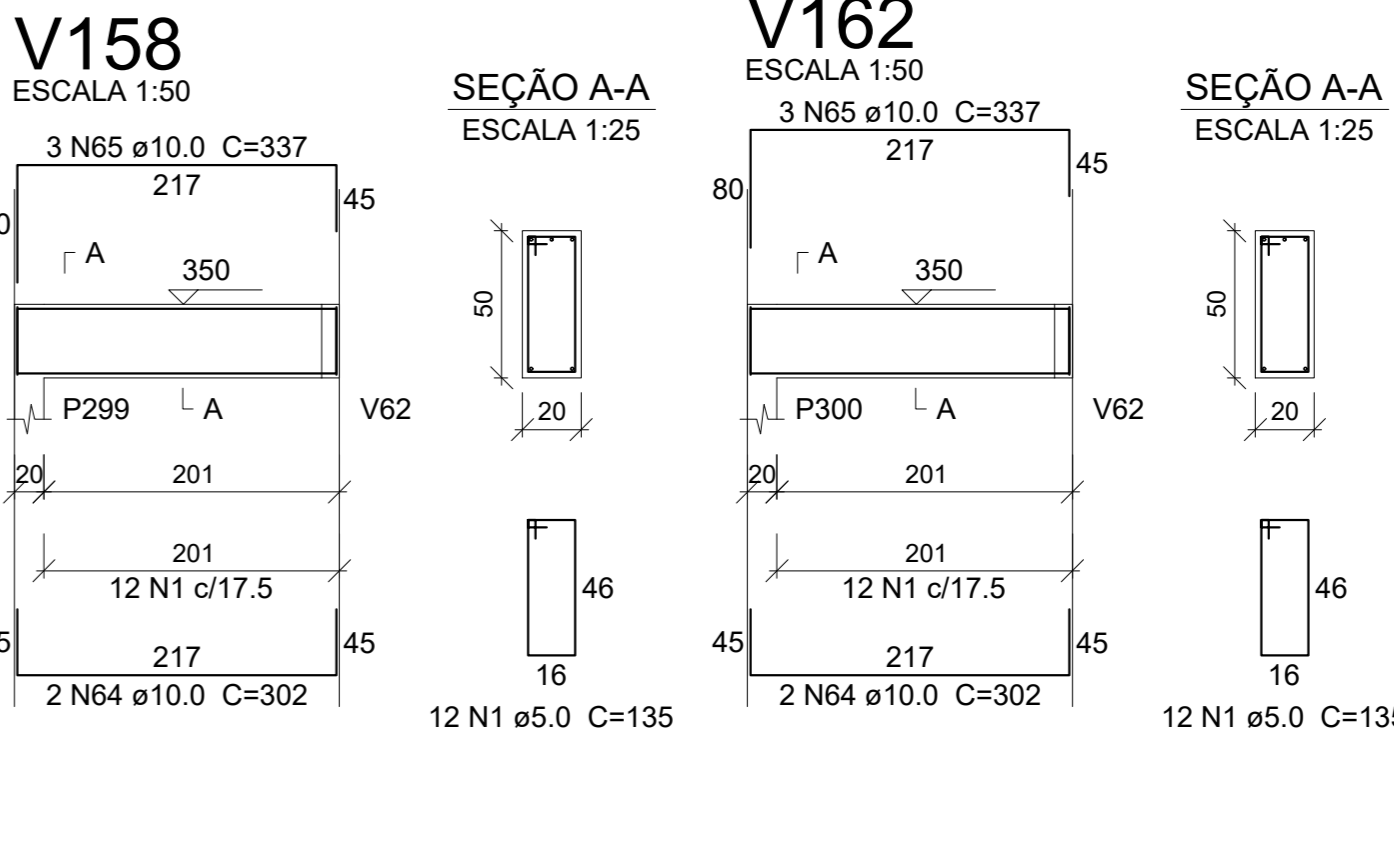
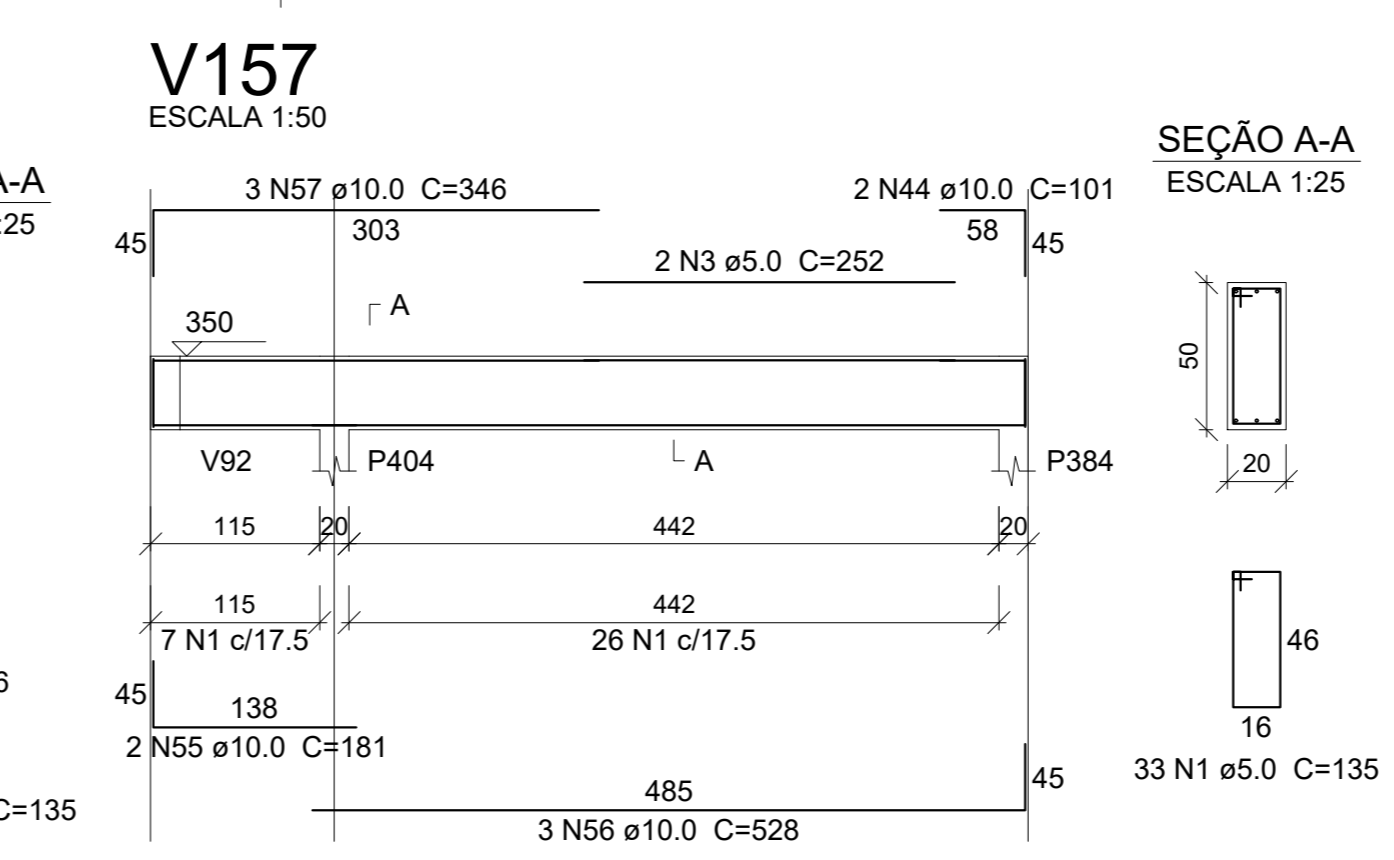
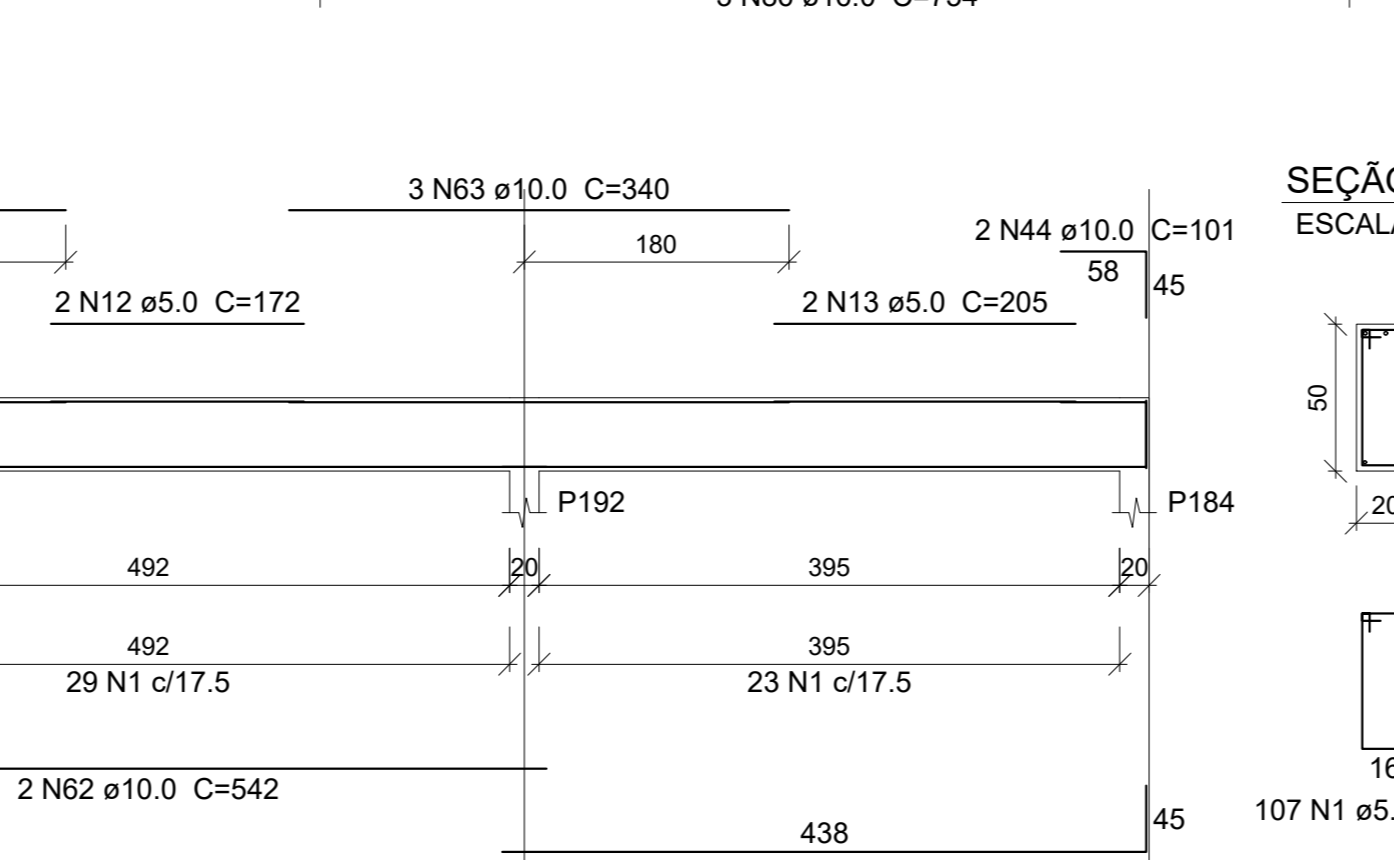
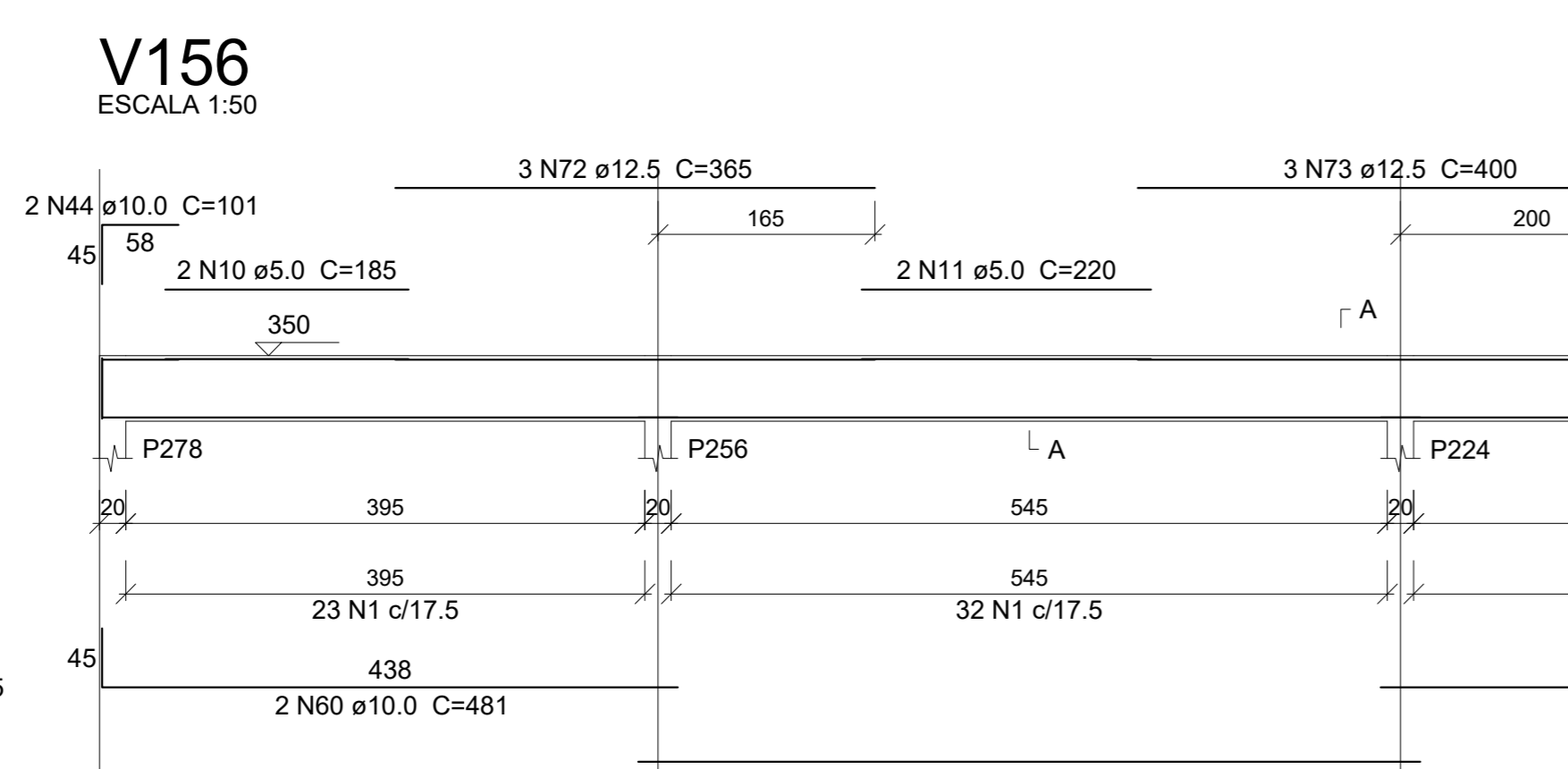
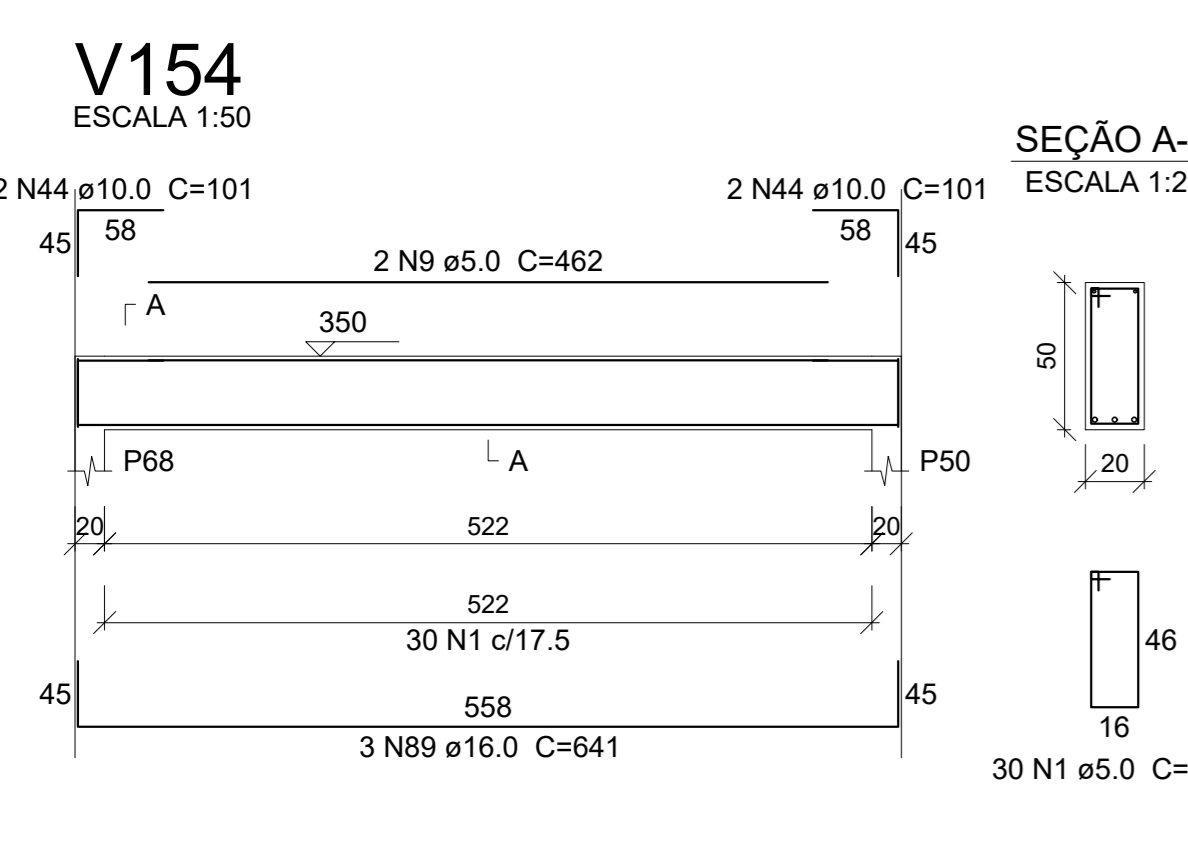
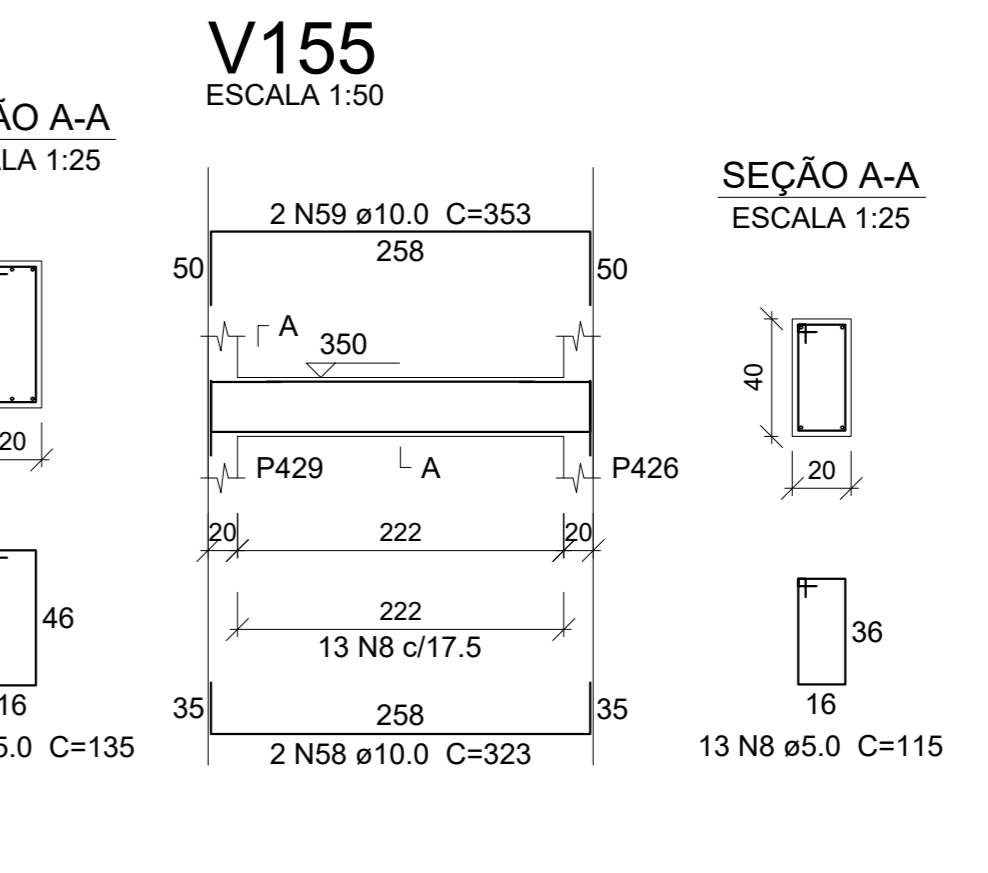
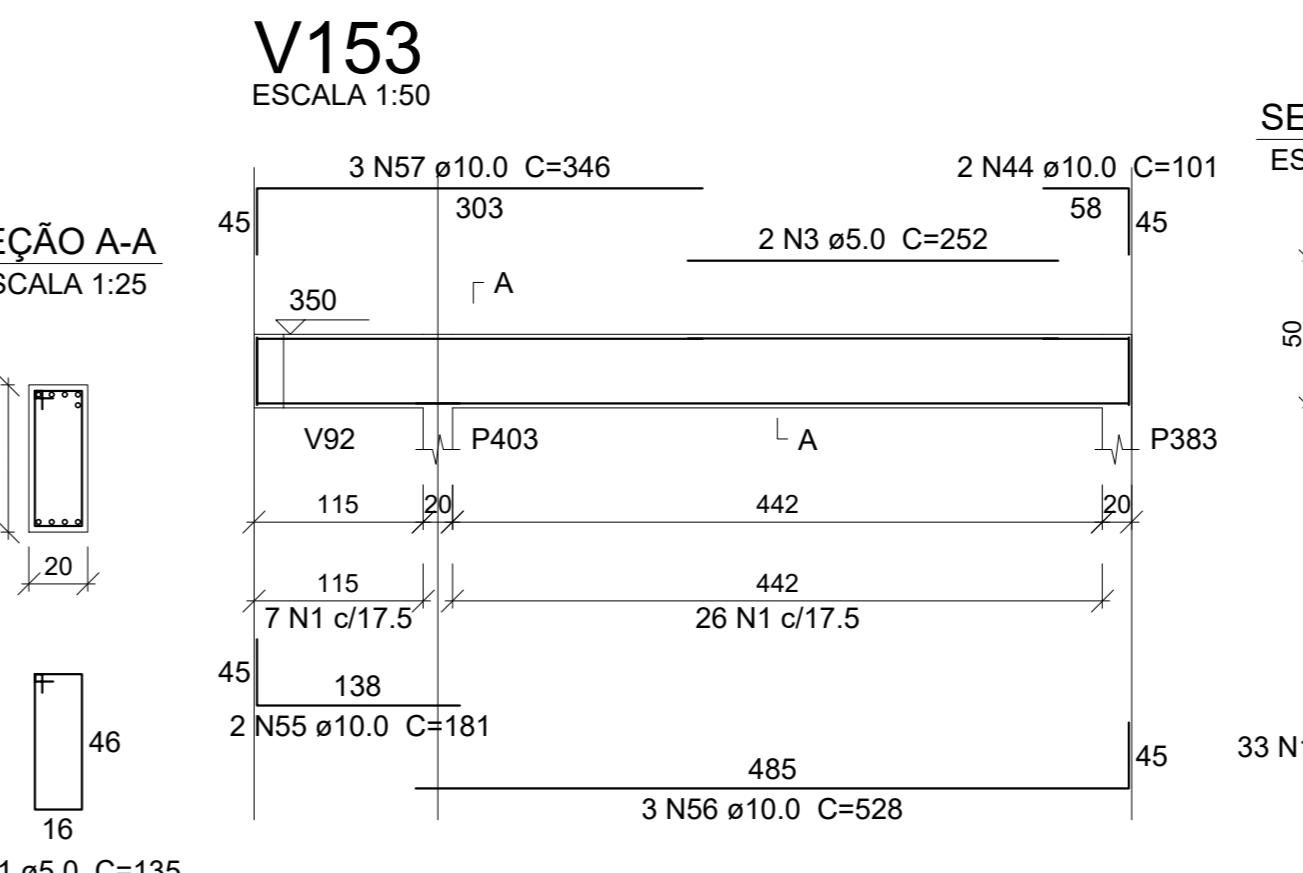
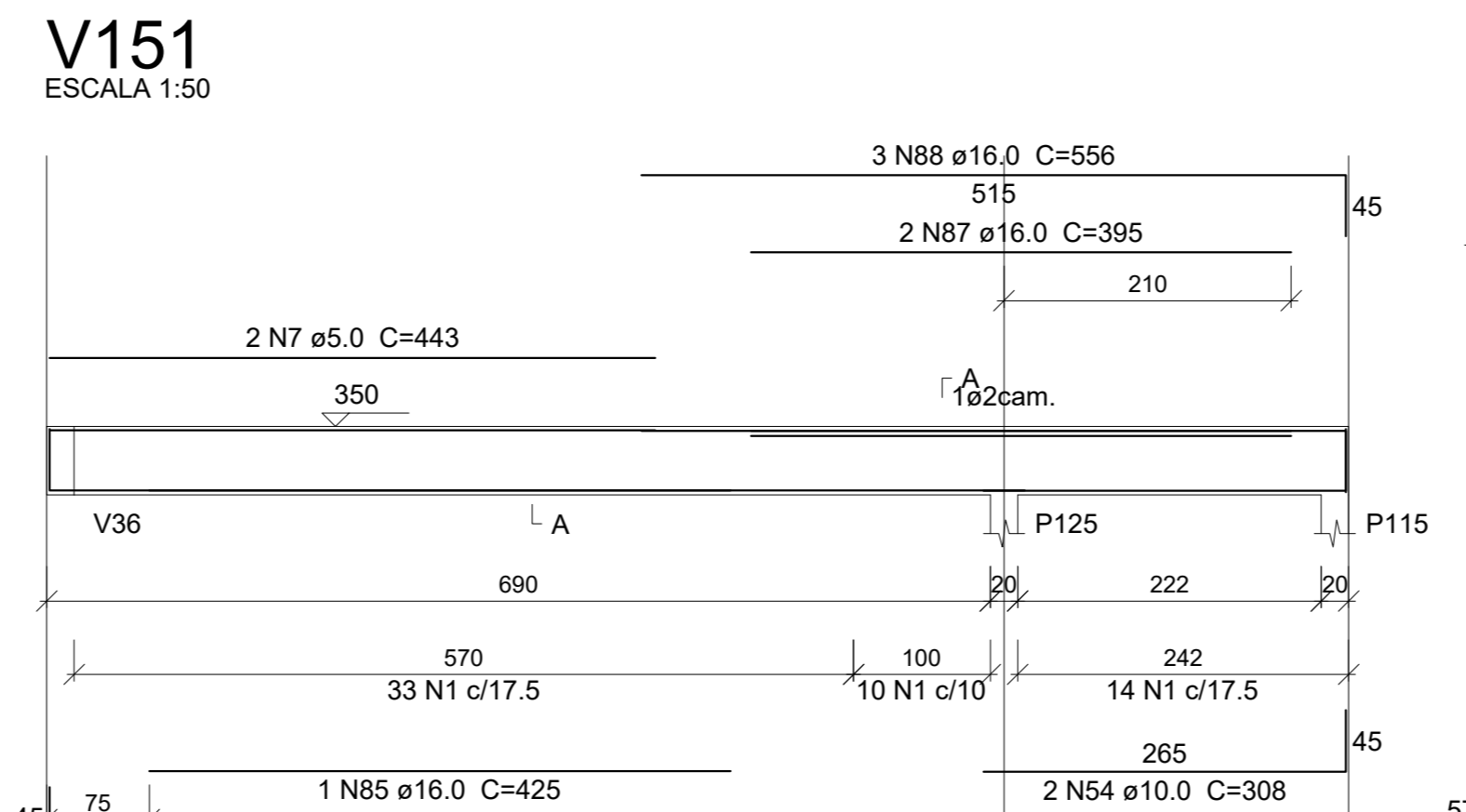
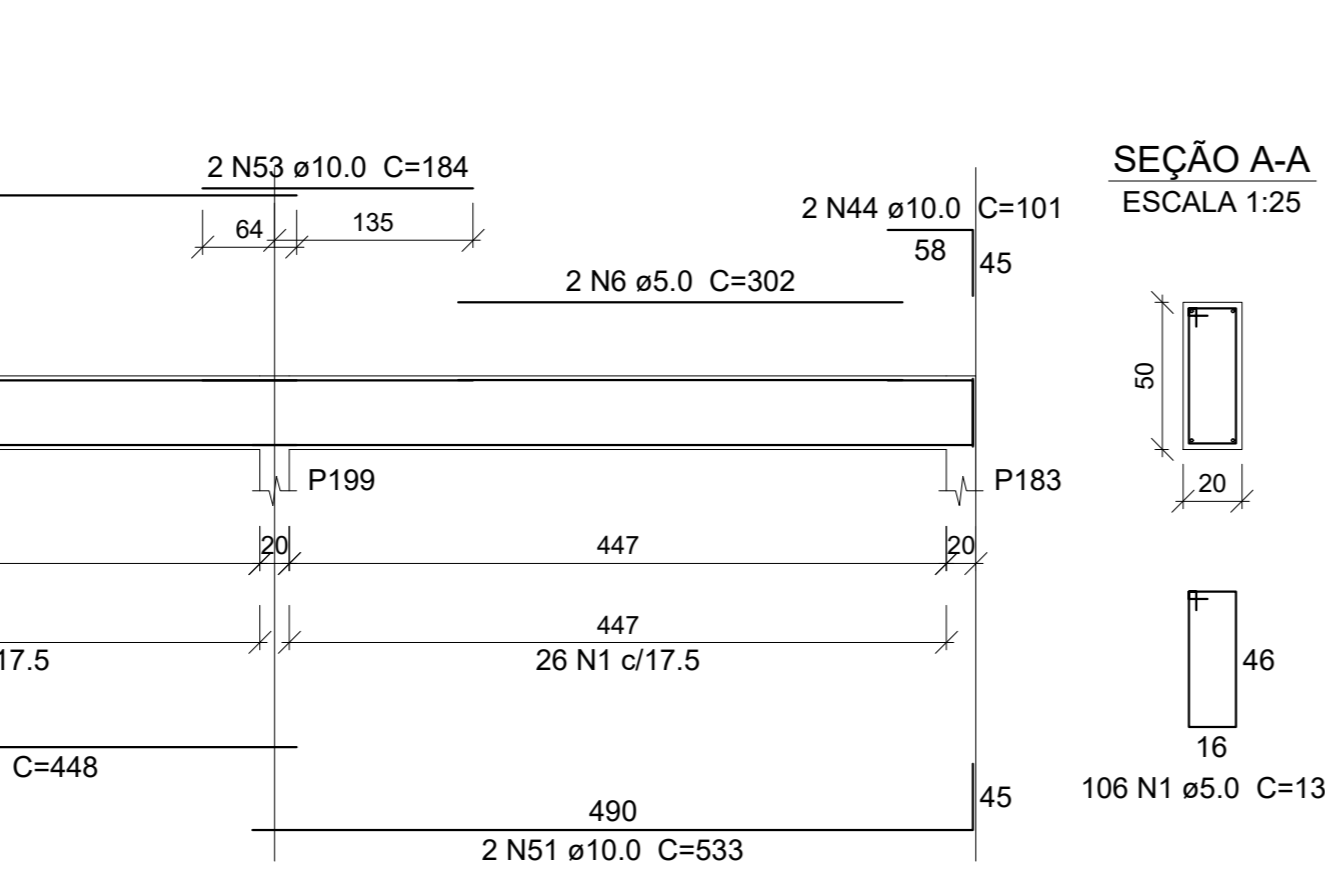
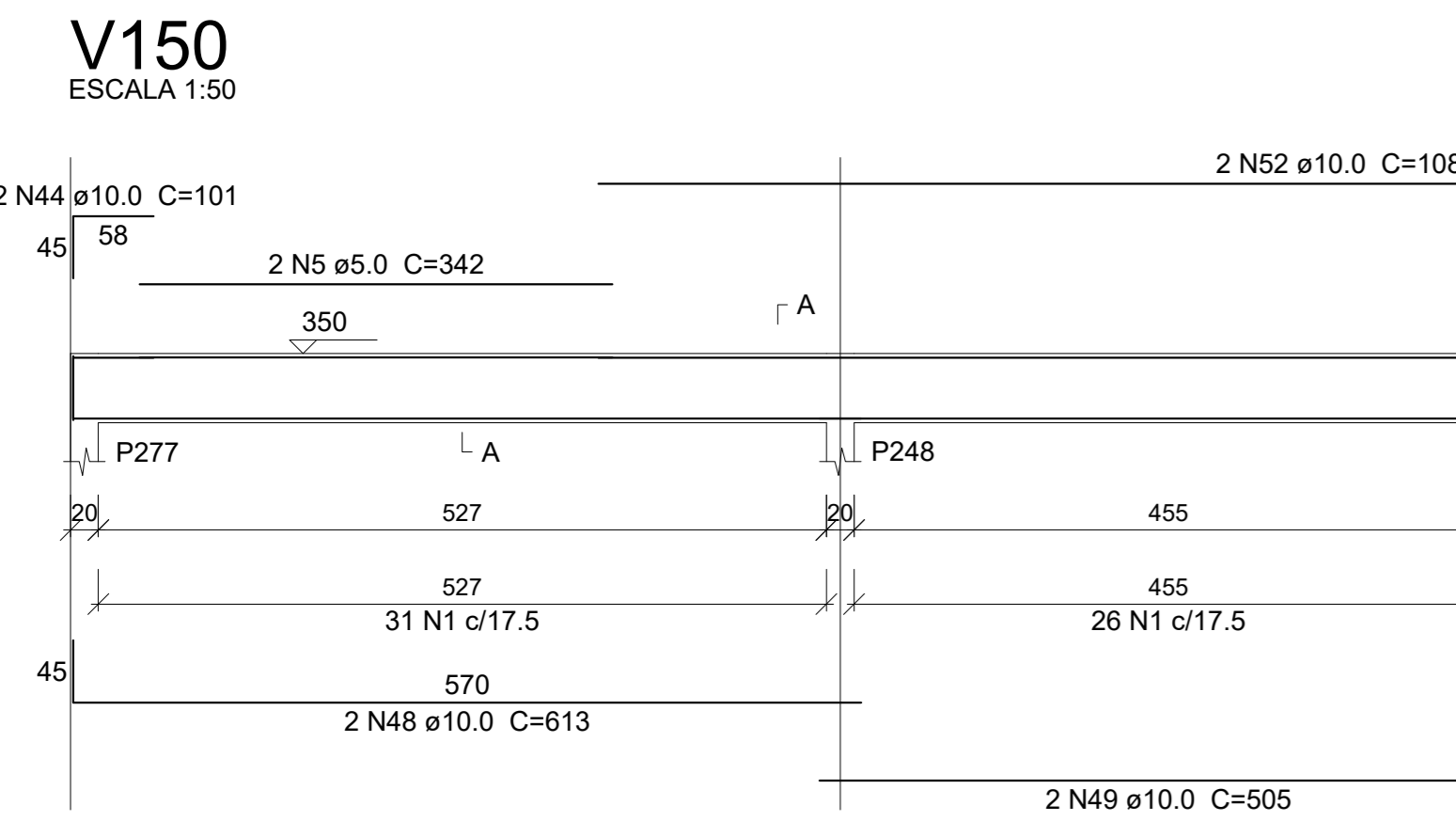
01/10/2024 1:50 100% 100% 100% 100%





**Relação do aço**

CAÇO	N	DIAM (mm)	QUANT	CUMINT (cm)	C.TOTAL (cm)
CA60	1	5.0	1062	135	143370
	2	5.0	2	377	754
	3	5.0	6	252	1512
	4	5.0	2	292	584
	5	5.0	2	342	684
	6	5.0	4	302	1208
	7	5.0	2	443	886
	8	5.0	13	115	1495
	9	5.0	4	462	1848
	10	5.0	2	185	370
	11	5.0	2	220	440
	12	5.0	2	172	344
	13	5.0	2	205	410
	14	5.0	2	428	856
	15	5.0	2	262	524
	16	5.0	2	423	846
	17	5.0	4	222	888
	18	5.0	2	208	416
	19	5.0	2	243	486
	20	5.0	2	305	610
	21	5.0	2	221	442
	22	5.0	113	119	13447
	23	5.0	2	432	864
	24	5.0	2	526	1052
	25	8.0	4	1016	4064
	26	8.0	2	403	806
	27	8.0	4	101	404
	28	8.0	2	181	362
	29	8.0	2	472	944
	30	8.0	2	615	1230
	31	8.0	2	373	746
	32	8.0	2	689	1378
	33	8.0	2	553	1106
	34	8.0	2	289	578
	35	8.0	2	106	212
	36	10.0	2	386	772
	37	10.0	2	350	700
	38	10.0	2	413	826
	39	10.0	3	1088	3264
	40	10.0	2	695	1390
	41	10.0	2	252	504
	42	10.0	2	460	920
	43	10.0	2	495	990
	44	10.0	30	101	3030
	45	10.0	2	957	1914
	46	10.0	2	488	976
	47	10.0	4	267	1068
	48	10.0	2	613	1226
	49	10.0	2	505	1010
	50	10.0	2	448	896
	51	10.0	2	533	1066
	52	10.0	2	1089	2166
	53	10.0	2	184	368
	54	10.0	6	308	1848
	55	10.0	8	181	1448
	56	10.0	13	528	6864
	57	10.0	6	346	2076
	58	10.0	2	323	646
	59	10.0	2	353	706
	60	10.0	9	481	4329
	61	10.0	4	595	2380
	62	10.0	4	542	2168
	63	10.0	3	340	1020
	64	10.0	6	302	1812
	65	10.0	9	337	3033
	66	10.0	1	310	310
	67	10.0	2	428	856
	68	10.0	2	795	1590
	69	10.0	2	613	1226
	70	10.0	2	518	1036
	71	10.0	3	399	1197
	72	12.5	3	365	1095
	73	12.5	3	400	1200
	74	12.5	2	335	670
	75	12.5	3	375	1125
	76	12.5	3	1200	3600
	77	12.5	3	376	1128
	78	12.5	2	915	1830
	79	16.0	1	437	437
	80	16.0	2	731	1462
	81	16.0	1	270	270
	82	16.0	2	543	1086
	83	16.0	3	464	1392
	84	16.0	3	722	2166
	85	16.0	1	425	425
	86	16.0	8	754	6032
	87	16.0	2	395	790
	88	16.0	3	566	1698
	89	16.0	7	641	4487
	90	16.0	1	430	430
	91	16.0	1	350	350
	92	16.0	3	571	1713
	93	16.0	1	310	310
	94	16.0	2	576	1152
	95	16.0	2	385	770
	96	16.0	2	615	1230



**Resumo do aço**

CAÇO	DIAM (mm)	C.TOTAL (m)	PESO (kg)
CA50	8.0	118.3	46.7
	10.0	576.4	355.3
	12.5	106.5	102.6
	16.0	261.7	413.1
CA60	5.0	1743.4	268.7
<b>PESO TOTAL (kg)</b>			
CA50		917.6	
CA60		268.7	

Volume de concreto (C=30) = 19.55 m³  
Área de forma = 206.68 m²

**Revisões da prancha**

Nº	Descrição	Por	Data
X	XXXXX	XXXXX	XXXXXX/XX/XX
X	XXXXX	XXXXX	XXXXXX/XX/XX
X	XXXXX	XXXXX	XXXXXX/XX/XX
0	Emissão Inicial	--	--
Nº	Comentário	Autor	Data

**ESTADO DO CEARÁ**  
**PREFEITURA MUNICIPAL DE QUIXADÁ**

CONCRETO: Fc = 30 MPa  
CIMENTO: CEM III-B-32.5  
ÁREA: 206.68 m²

**PREDIO PARA USO HOSPITALAR**

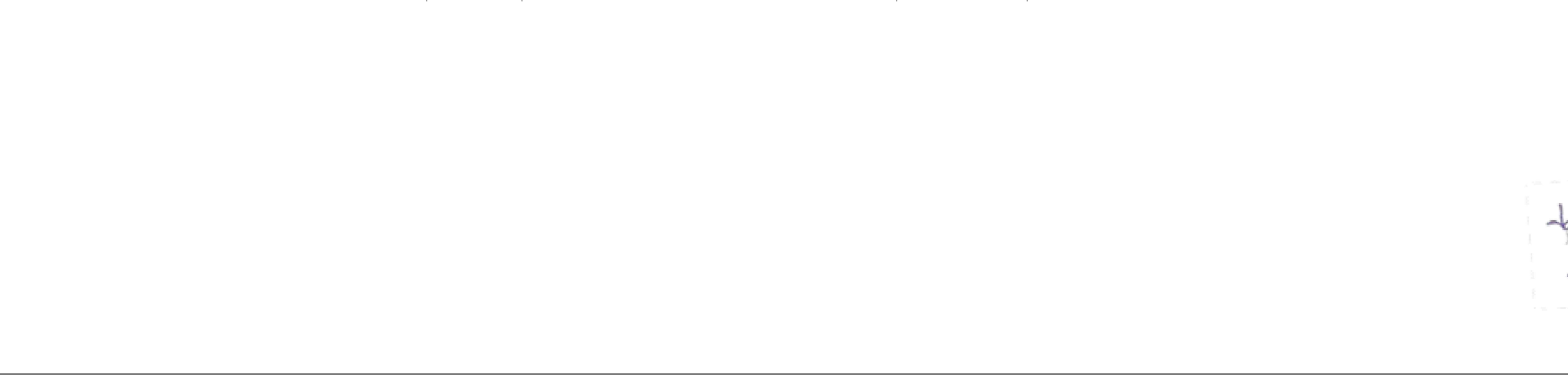
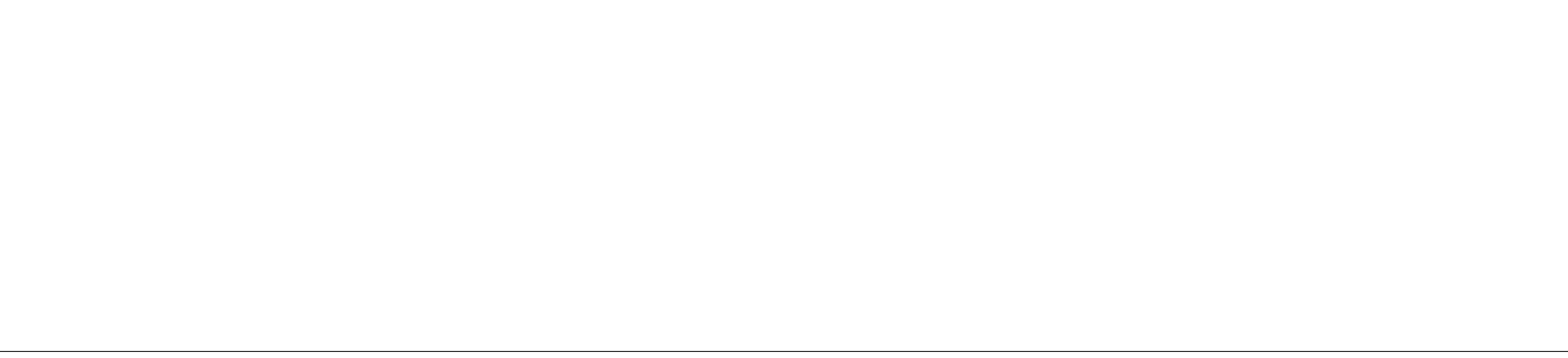
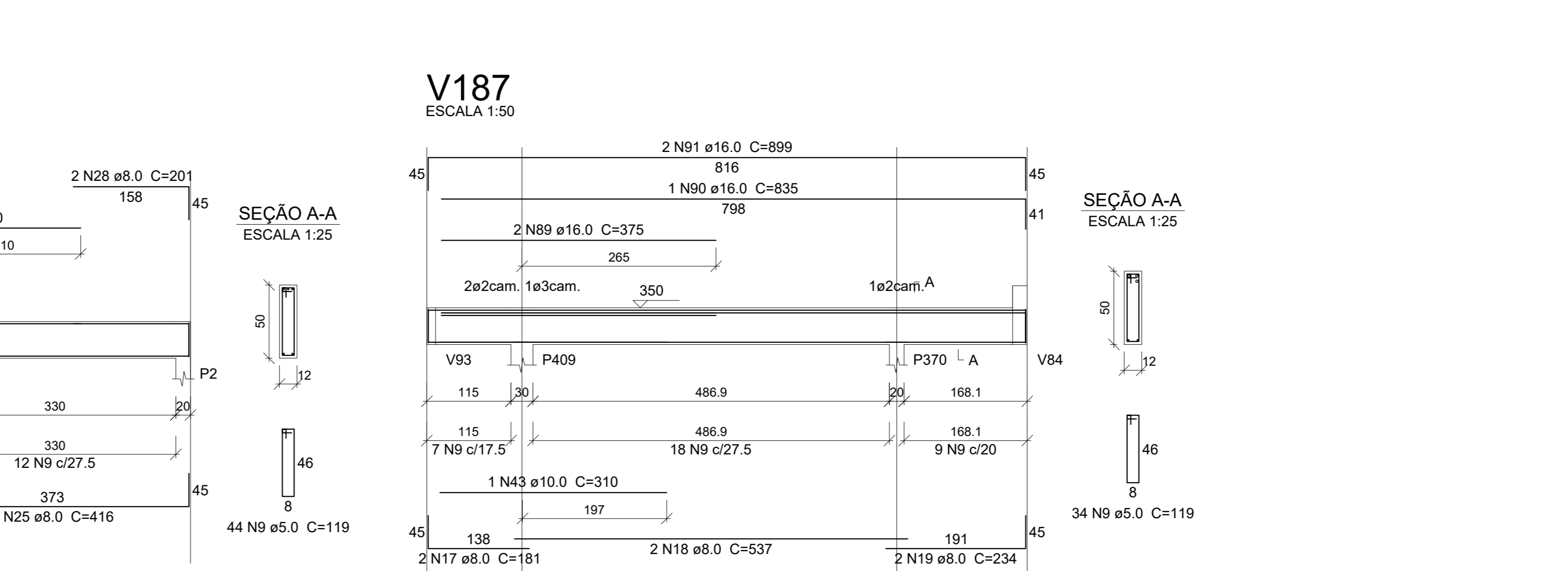
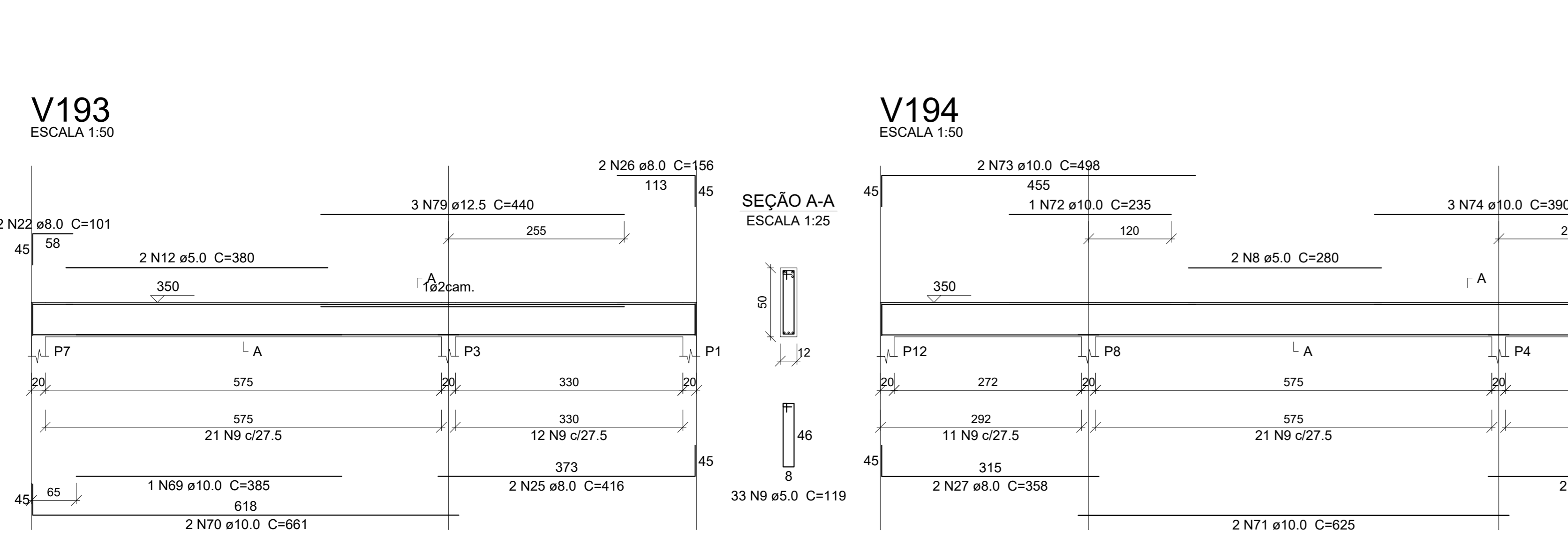
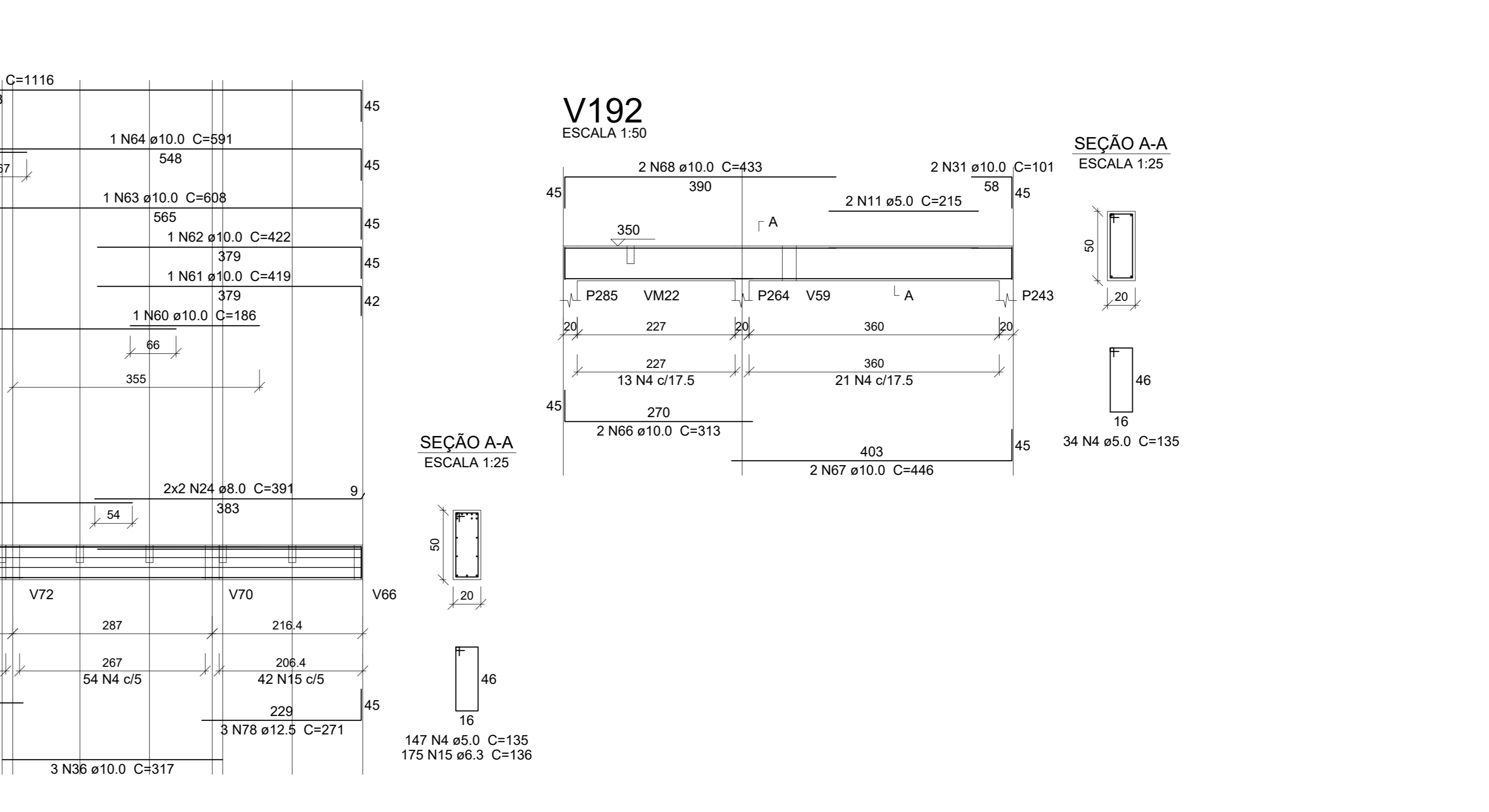
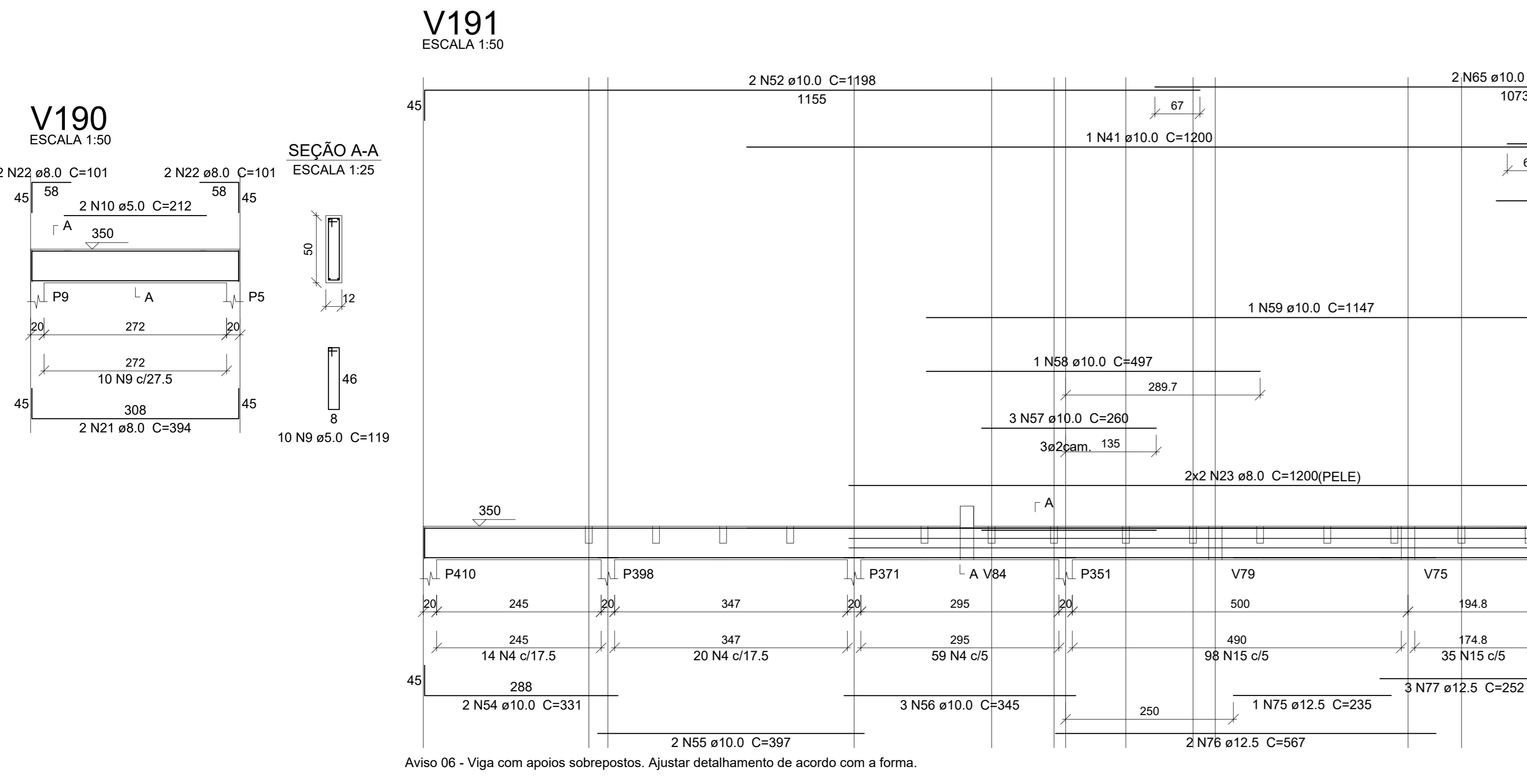
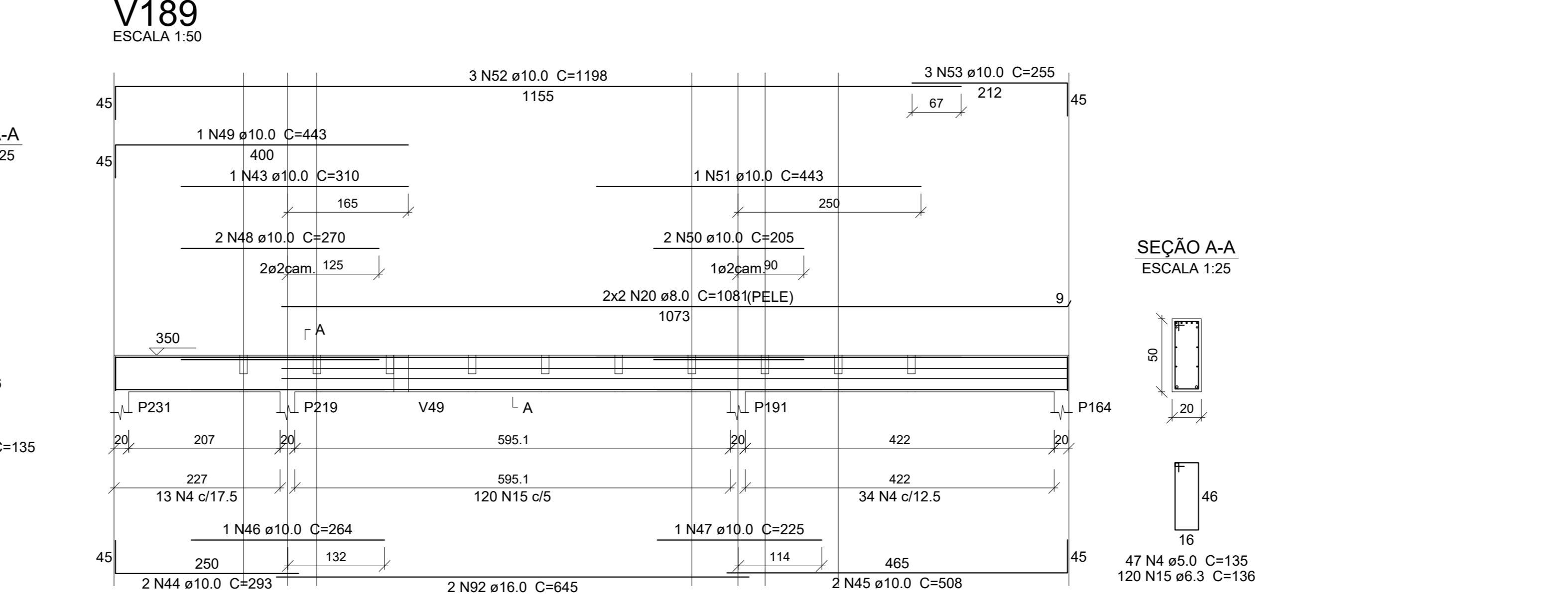
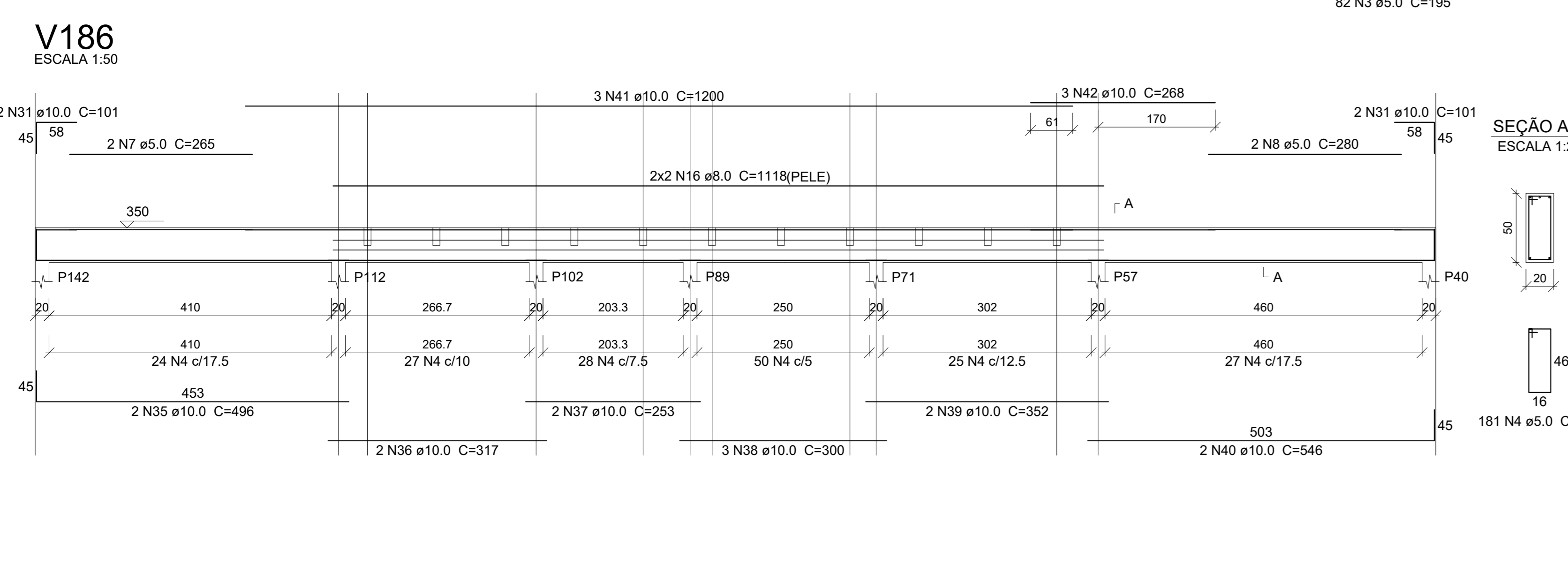
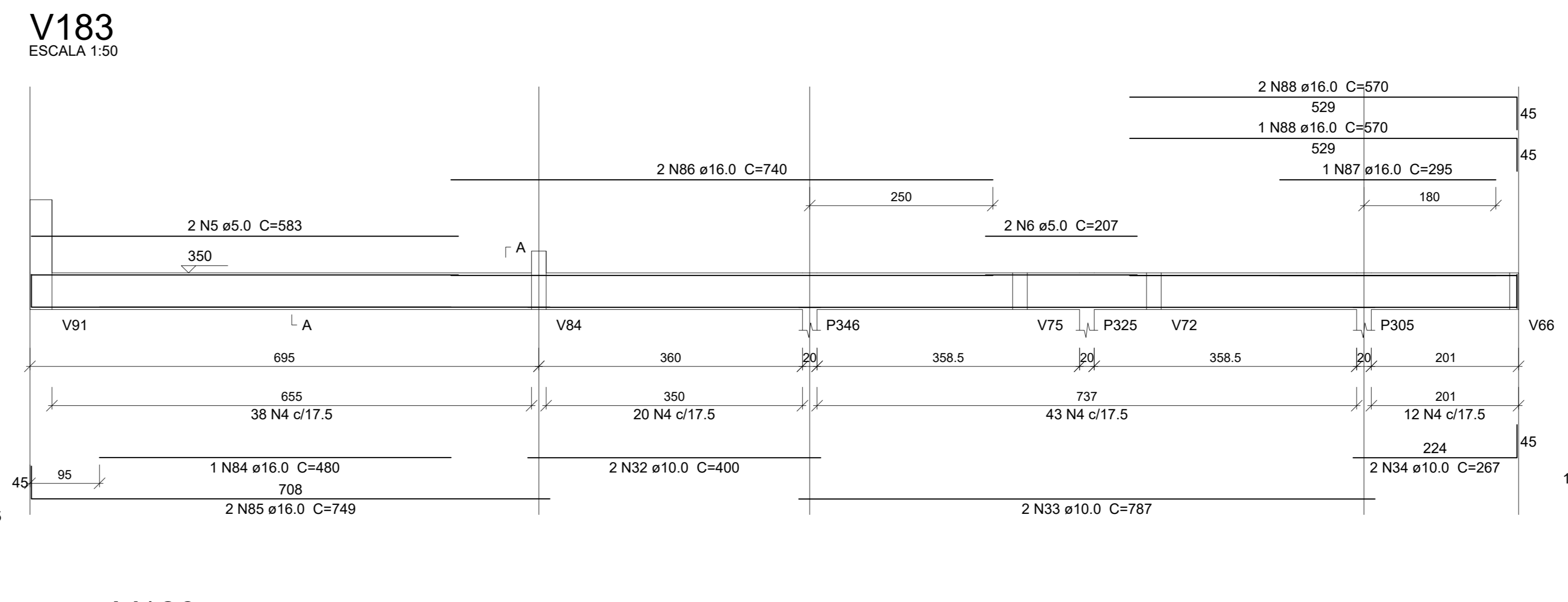
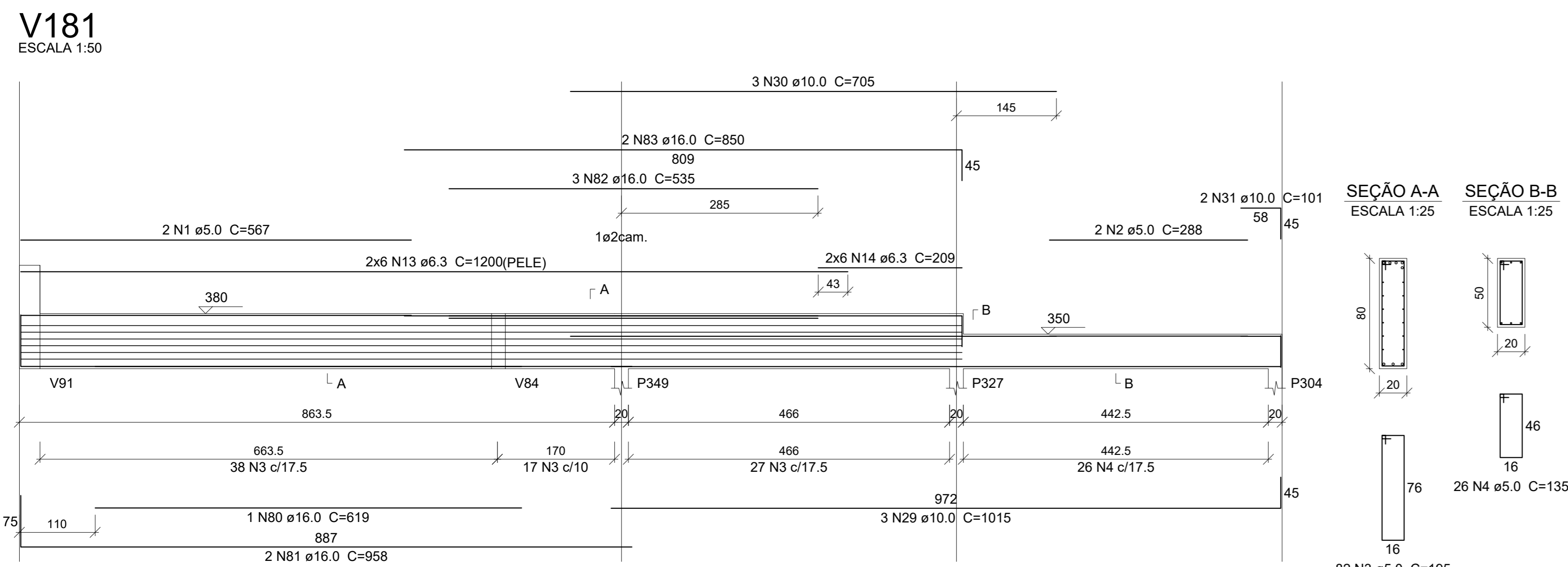
Projeto: 01/03/2024  
Escala: 1:50  
Arquiteto: JOSÉ KLAUTER F. DE OLIVEIRA  
Engenheiro: JOSÉ KLAUTER F. DE OLIVEIRA

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### Relação do aço

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	2	567	1134
	2	5.0	2	288	576
	3	5.0	82	195	15990
	4	5.0	548	135	73980
	5	5.0	2	583	1166
	6	5.0	2	207	414
	7	5.0	2	265	530
	8	5.0	4	280	1120
	9	5.0	121	119	14399
	10	5.0	2	212	424
	11	5.0	2	215	430
	12	5.0	2	380	760
CA50	13	6.3	12	1200	14400
	14	6.3	12	209	2508
	15	6.3	295	136	40120
	16	8.0	4	1118	4472
	17	8.0	2	181	362
	18	8.0	2	537	1074
	19	8.0	2	234	468
	20	8.0	4	1081	4324
	21	8.0	2	394	788
	22	8.0	6	101	606
	23	8.0	4	1200	4800
	24	8.0	4	391	1564
	25	8.0	4	416	1664
	26	8.0	2	156	312
	27	8.0	2	358	716
	28	8.0	2	201	402
	29	10.0	3	1015	3045
	30	10.0	3	705	2115
	31	10.0	8	101	808
	32	10.0	2	400	800
	33	10.0	2	787	1574
	34	10.0	2	267	534
	35	10.0	2	496	992
	36	10.0	5	317	1585
	37	10.0	2	253	506
	38	10.0	3	300	900
	39	10.0	2	352	704
	40	10.0	2	546	1092
	41	10.0	4	1200	4800
	42	10.0	3	268	804
	43	10.0	2	310	620
	44	10.0	2	293	586
	45	10.0	2	508	1016
	46	10.0	1	264	264
	47	10.0	1	225	225
	48	10.0	4	270	540
	49	10.0	1	443	443
	50	10.0	2	205	410
	51	10.0	1	443	443
	52	10.0	5	1198	5990
	53	10.0	3	255	765
	54	10.0	2	331	662
	55	10.0	2	397	794
	56	10.0	3	345	1035
	57	10.0	3	260	780
	58	10.0	1	497	497
	59	10.0	1	1147	1147
	60	10.0	1	186	186
	61	10.0	1	419	419
	62	10.0	1	422	422
	63	10.0	1	608	608
	64	10.0	1	591	591
	65	10.0	2	1115	2232
	66	10.0	2	313	626
	67	10.0	2	446	892
	68	10.0	2	433	866
	69	10.0	1	385	385
	70	10.0	2	661	1322
	71	10.0	2	625	1250
	72	10.0	1	235	235
	73	10.0	2	498	996
	74	10.0	3	390	1170
	75	12.5	1	235	235
	76	12.5	2	567	1134
	77	12.5	3	252	756
	78	12.5	3	271	813
	79	12.5	3	440	1320
	80	16.0	1	619	619
	81	16.0	2	958	1916
	82	16.0	3	535	1605
	83	16.0	2	550	1100
	84	16.0	1	480	480
	85	16.0	2	749	1498
	86	16.0	2	740	1480
	87	16.0	1	295	295
	88	16.0	3	570	1710
	89	16.0	2	375	750
	90	16.0	1	835	835
	91	16.0	2	899	1798
	92	16.0	2	645	1290

### Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO (kg)
CA50	6.3	570.3	139.5
	8.0	215.6	85
	10.0	485.8	300.1
	12.5	42.6	41
	16.0	159.8	252.2
CA60	5.0	1109.3	171
<b>PESO TOTAL (kg)</b>			
CA50		817.9	
CA60		171	

Volume de concreto (C-30) = 12.16 m³  
Área de forma = 134.98 m²

### Revisões da prancha

Nº	Descrição	Por	Data
X	XXXXX	XXXXX	XXXXXX/XX/XX
X	XXXXX	XXXXX	XXXXXX/XX/XX
X	XXXXX	XXXXX	XXXXXX/XX/XX
0	Ensaio Inicial	--	--
Nº	Comentário	Autor	Data

### ESTADO DO CEARÁ

#### PREFEITURA MUNICIPAL DE QUIXADÁ

CONCRETO: Fc = 30 MPa

CLIENTE: PREFEITURA MUNICIPAL DE QUIXADÁ - CE

OBJETO: PRÉDIO PARA USO HOSPITALAR

TÍTULO: Vigas do pavimento LAJE DE FORRO

PROJETO Nº: 25

REV. Nº: 00

DATA: 01/03/2024

ESCALA: 1:50

SISTEMA: MBR-LAJE-VIGAS-REF

COORDENADOR: FACC

PROJETADEUR: JOSÉ KLAURE FERRAZ DE ALMEIDA