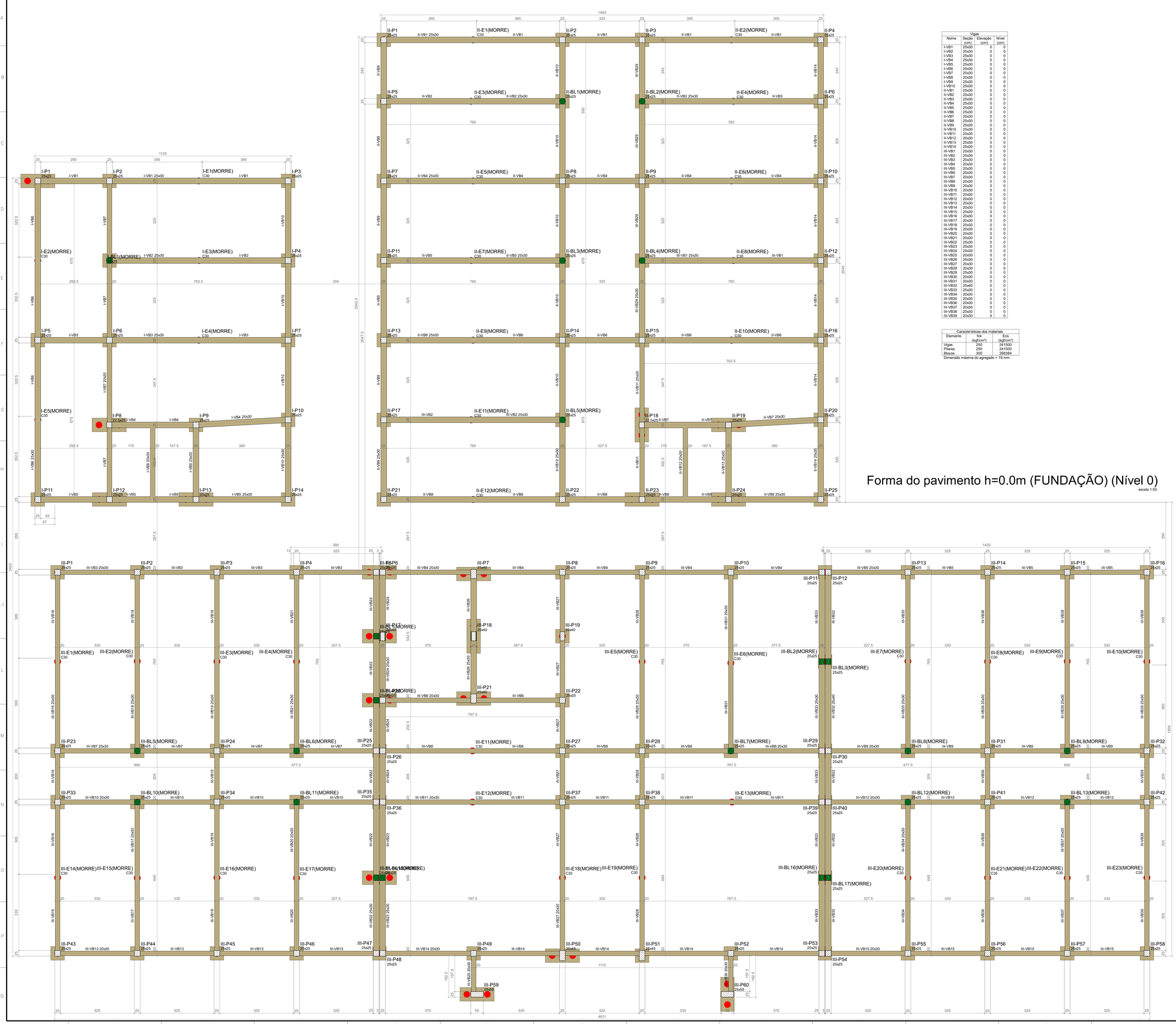


Forma do pavimento h=0.0m (FUNDAÇÃO) (Nível 0)

escala 1:50

Vigas			
Nome	Seção (cm)	Elevação (cm)	Nível (cm)
I-VB1	25x30	0	0
I-VB2	25x30	0	0
I-VB3	25x30	0	0
I-VB4	25x30	0	0
I-VB5	25x30	0	0
I-VB6	25x30	0	0
I-VB7	20x30	0	0
I-VB8	20x30	0	0
I-VB9	25x30	0	0
I-VB10	25x30	0	0
II-VB1	25x30	0	0
II-VB2	25x30	0	0
II-VB3	25x30	0	0
II-VB4	25x30	0	0
II-VB5	25x30	0	0
II-VB6	25x30	0	0
II-VB7	25x30	0	0
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II-VB9	25x30	0	0
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II-VB11	20x30	0	0
II-VB12	20x30	0	0
II-VB13	25x30	0	0
II-VB14	25x30	0	0
III-VB1	25x30	0	0
III-VB2	25x30	0	0
III-VB3	20x30	0	0
III-VB4	20x30	0	0
III-VB5	20x30	0	0
III-VB6	20x30	0	0
III-VB7	20x30	0	0
III-VB8	20x30	0	0
III-VB9	20x30	0	0
III-VB10	20x30	0	0
III-VB11	20x30	0	0
III-VB12	20x30	0	0
III-VB13	20x30	0	0
III-VB14	20x30	0	0
III-VB15	20x30	0	0
III-VB16	20x30	0	0
III-VB17	20x30	0	0
III-VB18	20x30	0	0
III-VB19	20x30	0	0
III-VB20	20x30	0	0
III-VB21	20x30	0	0
III-VB22	25x30	0	0
III-VB23	25x30	0	0
III-VB24	25x30	0	0
III-VB25	20x30	0	0
III-VB26	25x30	0	0
III-VB27	20x30	0	0
III-VB28	20x30	0	0
III-VB29	25x30	0	0
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III-VB31	20x30	0	0
III-VB32	25x40	0	0
III-VB33	25x30	0	0
III-VB34	20x30	0	0
III-VB35	20x30	0	0
III-VB36	20x30	0	0
III-VB37	20x30	0	0
III-VB38	20x30	0	0
III-VB39	20x30	0	0

Características dos materiais		
Elemento	fck (kgf/cm²)	Eck (kgf/cm²)
Vigas	250	241500
Pilares	250	241500
Blocos	300	268384

Dimensão máxima do agregado = 19 mm

Pilares			
Nome	Seção (cm)	Elevação (cm)	Nível (cm)
I-BL1	25x25	0	0
I-P1	25x25	0	0
I-P2	25x25	0	0
I-P3	25x25	0	0
I-P4	25x25	8	8
I-P5	25x25	0	0
I-P6	25x25	0	0
I-P7	25x25	0	0
I-P8	22.5x25	0	0
I-P9	25x25	0	0
I-P10	25x25	0	0
I-P11	25x25	0	0
I-P12	25x25	0	0
I-P13	25x25	0	0
I-P14	25x25	0	0
II-BL1	25x25	0	0
II-BL2	25x25	0	0
II-BL3	25x25	0	0
II-BL4	25x25	0	0
II-BL5	25x25	0	0
II-P1	25x25	0	0
II-P2	25x25	0	0
II-P3	25x25	0	0
II-P4	25x25	0	0
II-P5	25x25	0	0
II-P6	25x25	0	0
II-P7	25x25	0	0
II-P8	25x25	0	0
II-P9	25x25	0	0
II-P10	25x25	0	0
II-P11	25x25	0	0
II-P12	25x25	0	0
II-P13	25x25	0	0
II-P14	25x25	0	0
II-P15	25x25	0	0
II-P16	25x25	0	0
II-P17	25x25	0	0
II-P18	25x40	0	0
II-P19	25x40	-30	-30
II-P20	25x25	0	0
II-P21	25x40	0	0
II-P22	25x25	0	0
II-P23	25x25	0	0
II-P24	25x25	0	0
II-P25	25x25	0	0
II-P26	25x25	0	0
II-P27	25x25	0	0
II-P28	25x25	0	0
II-P29	25x25	0	0
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II-P36	25x25	0	0
II-P37	25x25	0	0
II-P38	25x25	0	0
II-P39	25x25	0	0
II-P40	25x25	0	0
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II-P44	25x25	0	0
II-P45	25x25	0	0
II-P46	25x25	0	0
II-P47	25x25	0	0
II-P48	25x25	0	0
II-P49	25x25	0	0
II-P50	25x45	0	0
III-P51	25x45	0	0
III-P52	25x25	0	0
III-P53	25x25	0	0
III-P54	25x25	0	0
III-P55	25x25	0	0
III-P56	25x25	0	0
III-P57	25x25	0	0
III-P58	25x25	0	0
III-P59	25x55	0	0
III-P60	25x55	0	0

Legenda dos pilares
Pilar que morre
Pilar que passa
Pilar com mudança de seção

Legenda das vigas e paredes
Viga

UENP
UNIVERSIDADE ESTADUAL DO NORTE DO PARANÁ

PROJETO: PROJETO ESTRUTURAL

OBRA: CENTRAL DE PÓS GRADUAÇÃO - CJ h=0.0m (FUNDAÇÃO)

PROPRIETÁRIO: UNIVERSIDADE ESTADUAL DO NORTE DO PARANÁ - UENP, CNPJ: 08.895.100/0001-54

RESPONSÁVEL TÉCNICO: ENG. CIVIL MAICON HOCHSCHEIDT, CREA PR-180719/D

DESENHO: Maicon Hochscheidt | DATA: 24/08/2026 | ESCALA: Indicada

PROPAV
PRO-REITORIA DE PLANEJAMENTO E AVALIAÇÃO INSTITUCIONAL
SECRETARIA DE OBRAS

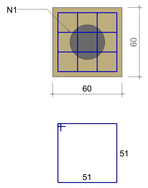
PRANCHA: 1 /13

Assinatura Qualificada realizada por: **Ederson Marcos Sgarbi** em 18/09/2026 15:26. Assinatura Avançada realizada por: **Juliana Costa Rossitto (XXX.979.129-XX)** em 04/09/2026 08:11 Local: UENP/RTA/PROPAV/SECOBRAS, **Christopher Ramos Sfeir (XXX.945.859-XX)** em 04/09/2026 08:19 Local: UENP/RTA/PROPAV/SECOBRAS. Assinatura Simples realizada por: **Maicon Hochscheidt (XXX.348.319-XX)** em 04/09/2026 08:19 Local: UENP/RTA/PROPAV/SECOBRAS. Inserido ao protocolo **26.535.000-3** por: **Amanda Alves da Silva** em: 04/09/2026 08:08. Documento assinado nos termos do Art. 38 do Decreto Estadual nº 7304/2021. A autenticidade deste documento pode ser validada no endereço: **https://www.eprotocolo.pr.gov.br/spiweb/validarDocumento** com o código: **f62cfc130bd1be01526ef5464615f0f5**

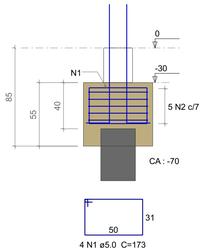
PROTOCOLO
Fls. 120
Mov. 6
INTERESSADO DO ESTADO

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1xDN-30

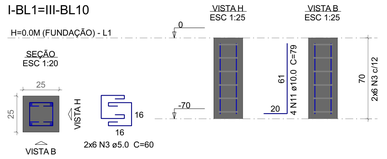
PLANTA
ESC 1:25



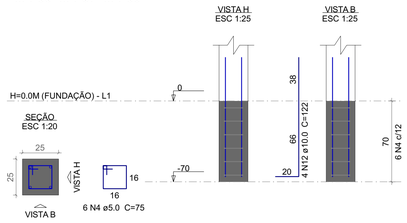
CORTE
ESC 1:25



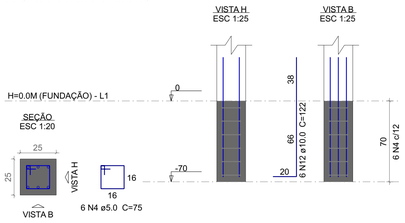
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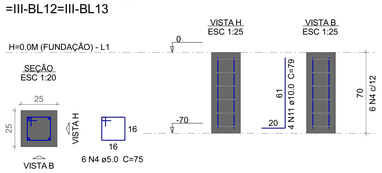
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=III-P15=III-P24=III-P27=III-P28=
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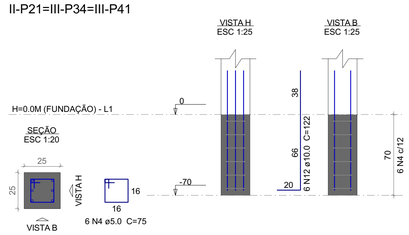
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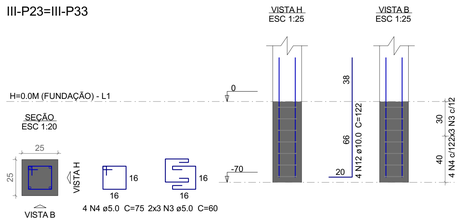
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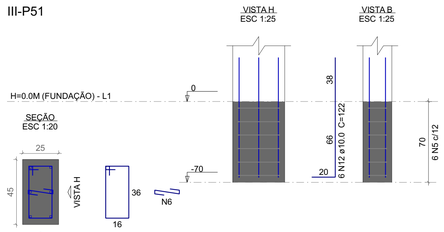
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III-P23=III-P33



III-P51



Relação do aço

BI-P1	BI-P4	3xBIII-P18
76xBIII-P58	2xII-BL1	I-P1
51xI-P2	I-P4	4xI-P6
I-P8	13xII-BL1	II-P19
3xII-P21	2xIII-P23	III-P51

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	336	173	58128
	2	5.0	385	215	82775
	3	5.0	36	60	2160
	4	5.0	453	75	33975
	5	5.0	6	115	690
	6	5.0	6	31	186
	7	5.0	20	395	7900
	8	5.0	6	71	426
CA50	9	8.0	13	198	2574
	10	8.0	16	154	2464
	11	10.0	60	79	4740
	12	10.0	272	122	33184
	13	10.0	4	130	520
	14	10.0	15	197	2955

Resumo do aço

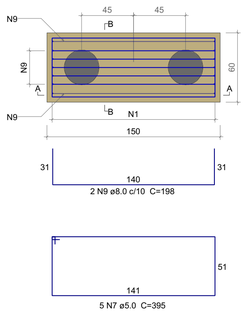
AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 10 % (Barras)	PESO + 10 % (kg)
CA50	8.0	50.4	5	21.9
	10.0	414	38	280.8
CA60	5.0	1862.4	-	315.8

PESO TOTAL (kg)	
CA50	302.6
CA60	315.8

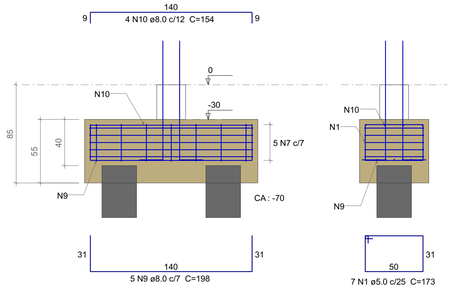
Volume de concreto (C-30) = 16.32 m³
Volume de concreto (C-25) = 1.52 m³
Área de forma = 135.06 m²

BI-P1
2xDN-30

PLANTA
ESC 1:25

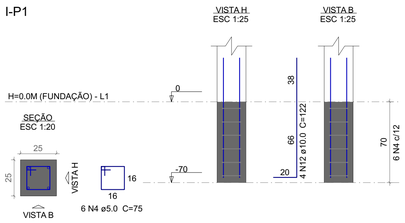


CORTE A-A
ESC 1:25



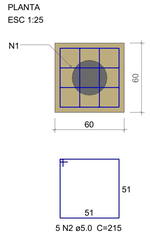
CORTE B-B
ESC 1:25

I-P1

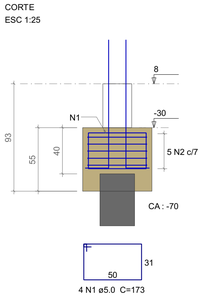


BI-P4
1xDN-30

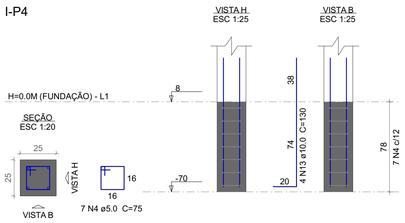
PLANTA
ESC 1:25



CORTE
ESC 1:25



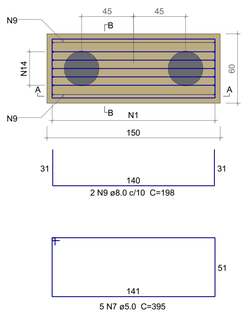
I-P4



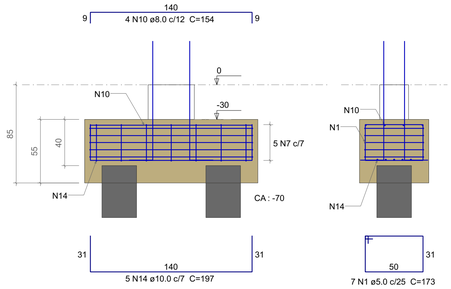
Nº	REVISÕES	DATA	
0	Emissão inicial	05/08/2026	Maicon Hochscheidt

BI-P8=BII-P19=BIII-P18
2xDN-30

PLANTA
ESC 1:25

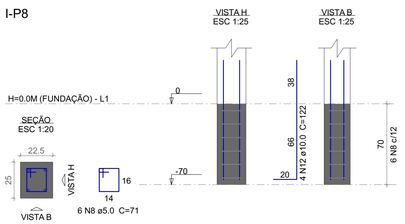


CORTE A-A
ESC 1:25

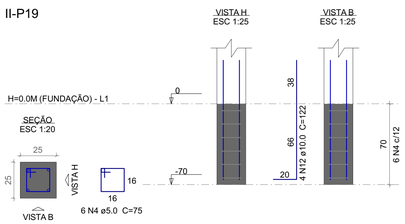


CORTE B-B
ESC 1:25

I-P8



II-P19



UENP
UNIVERSIDADE ESTADUAL DO NORTE DO PARANÁ

PROJETO
PROJETO ESTRUTURAL

OBRA
CENTRAL DE PÓS GRADUAÇÃO - CJ
h=0.0m
(FUNDAÇÃO)

PROPRIETÁRIO
UNIVERSIDADE ESTADUAL DO NORTE DO PARANÁ - UENP
CNPJ: 08.885.100/0001-54

RESPONSÁVEL TÉCNICO
ENG. CIVIL MAICON HOCHSCHEIDT
CREA PR-189719/D

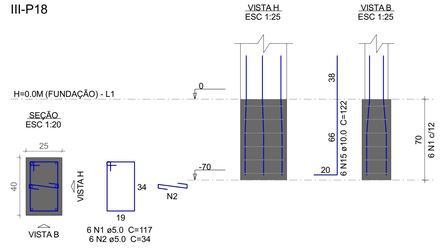
DESENHO	DATA	ESCALA	PRANCHA
Maicon Hochscheidt	24/08/2026 24/08/2026	Indicada	2 /13

PROPAV
PRÓ-REITORIA DE PLANEJAMENTO E AVALIAÇÃO INSTITUCIONAL
SECRETARIA DE OBRAS

Assinatura Qualificada realizada por: **Ederson Marcos Sgarbi** em 18/09/2026 15:26. Assinatura Avançada realizada por: **Juliana Costa Rossitto (XXX.979.129-XX)** em 04/09/2026 08:11 Local: UENP/RTA/PROPAV/SECOBRAS, **Christopher Ramos Sfeir (XXX.945.859-XX)** em 04/09/2026 08:19 Local: UENP/RTA/PROPAV/SECOBRAS. Assinatura Simples realizada por: **Maicon Hochscheidt (XXX.348.319-XX)** em 04/09/2026 08:19 Local: UENP/RTA/PROPAV/SECOBRAS. Inserido ao protocolo **26.535.000-3** por: **Amanda Alves da Silva** em: 04/09/2026 08:08. Documento assinado nos termos do Art. 38 do Decreto Estadual nº 7304/2021. A autenticidade deste documento pode ser validada no endereço: **https://www.eprotocolo.pr.gov.br/spiweb/validarDocumento** com o código: **f62cfc10bd1be01526ef54d641b5bf5**

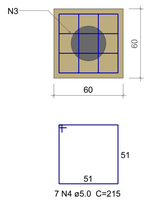
PROTOCOLO
Fls. 121
Mod. - 6
INTERESSADO/SETOR

III-P18

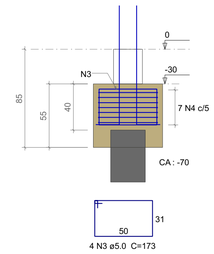


BI-P9=BIII-P8
1xDN-30

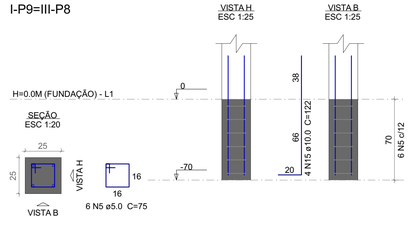
PLANTA
ESC 1:25



CORTE
ESC 1:25

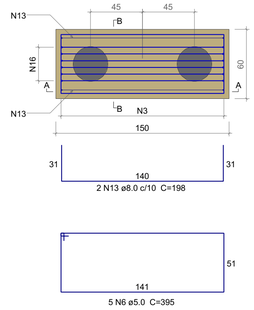


I-P9=III-P8

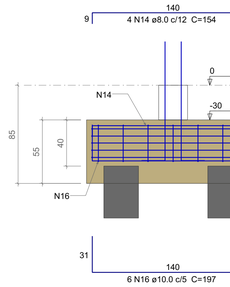


BI-P12=BIII-P21
2xDN-30

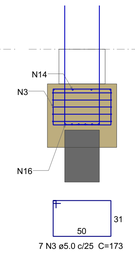
PLANTA
ESC 1:25



CORTE A-A
ESC 1:25



CORTE B-B
ESC 1:25



Relação do aço

BI-P18	3xØIII-P7	2xØIII-P8
2xØIII-P21	3xØIII-P22	2xI-P9
I-P12	I-P13	II-P18
II-P22	II-P23	III-P7
III-P18	III-P19	III-P21
III-P22		

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	6	117	702
	2	5.0	6	34	204
	3	5.0	62	173	10726
	4	5.0	32	215	6880
	5	5.0	36	75	2700
	6	5.0	30	395	11850
	7	5.0	12	105	1260
	8	5.0	12	31	372
	9	5.0	6	87	522
	10	5.0	6	71	426
	11	5.0	6	107	642
	12	5.0	6	29	174
CA50	13	8.0	21	198	4158
	14	8.0	24	154	3696
	15	10.0	58	122	7076
	16	10.0	12	197	2364
	17	12.5	12	196	2352

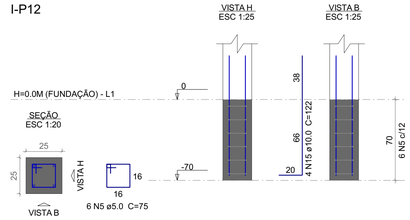
Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 10 % (Barras)	PESO + 10 % (kg)
CA50	8.0	78.6	8	34.1
	10.0	94.4	9	64
	12.5	23.6	3	24.9
CA60	5.0	364.6	-	61.8

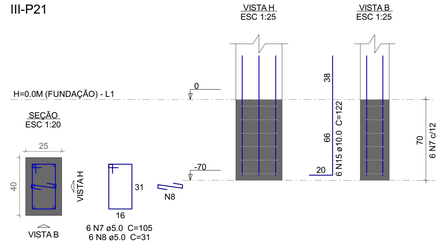
PESO TOTAL (kg)	
CA50	123
CA60	61.8

Volume de concreto (C-25) = 0.26 m³
Volume de concreto (C-30) = 3.78 m³
Área de forma = 24.38 m²

I-P12

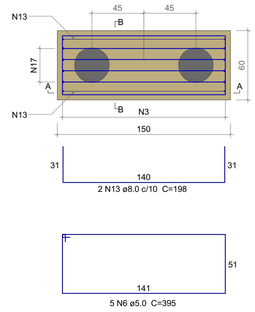


III-P21

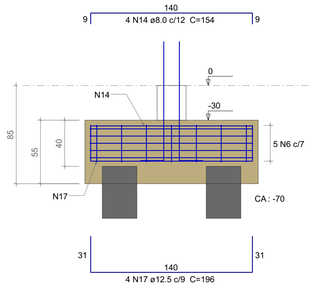


BI-P13=BII-P23=BIII-P7
2xDN-30

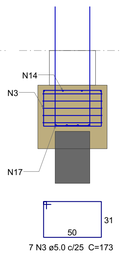
PLANTA
ESC 1:25



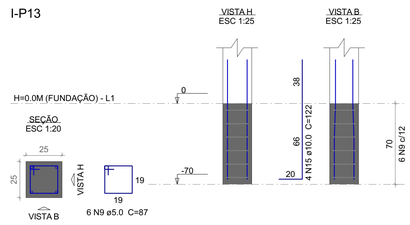
CORTE A-A
ESC 1:25



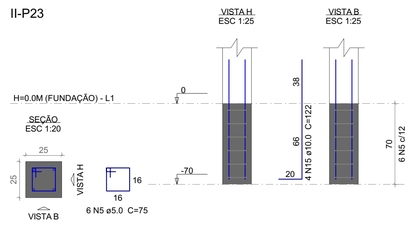
CORTE B-B
ESC 1:25



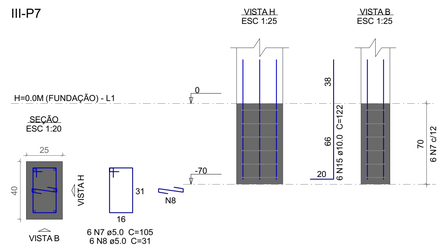
I-P13



II-P23

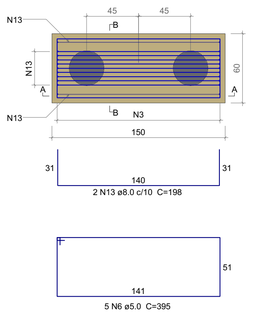


III-P7

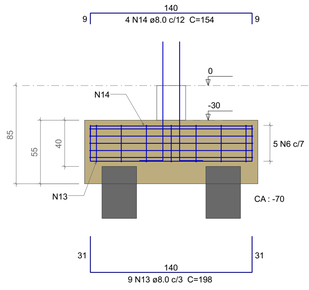


BII-P18
2xDN-30

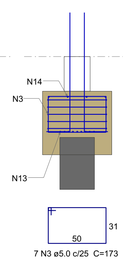
PLANTA
ESC 1:25



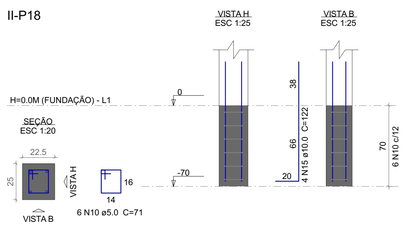
CORTE A-A
ESC 1:25



CORTE B-B
ESC 1:25

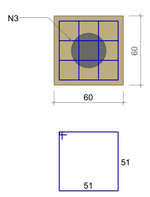


II-P18

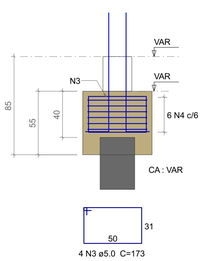


BII-P22=BIII-P19=BIII-P22
1xDN-30

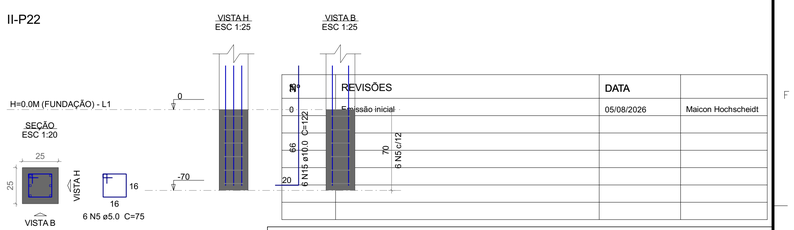
PLANTA
ESC 1:25



CORTE
ESC 1:25

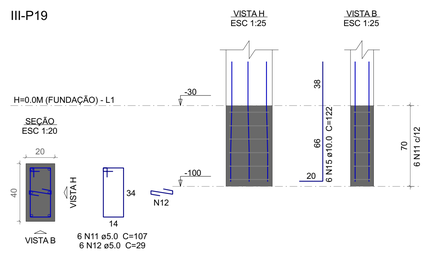


II-P22

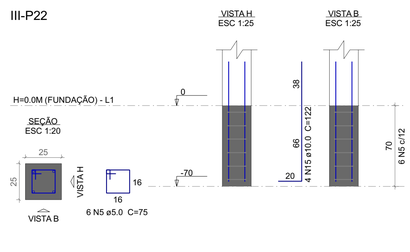


Nº	REVISÕES	DATA	
0	Emissão inicial	05/08/2026	Maicon Hochscheidt

III-P19



III-P22



UENP
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PROJETO
PROJETO ESTRUTURAL

OBRA
CENTRAL DE PÓS GRADUAÇÃO - CJ
h=0.0m
(FUNDAÇÃO)

PROPRIETÁRIO
UNIVERSIDADE ESTADUAL DO NORTE DO PARANÁ - UENP
CNPJ: 08.885.100/0001-54

RESPONSÁVEL TÉCNICO
ENG. CIVIL MAICON HOCHSCHEIDT
CREA PR-189719/D

DESENHO	DATA	ESCALA	PRANCHA
Maicon Hochscheidt	24/08/2026	Indicada	3 /13

PROPAV
PRÓ-REITORIA DE PLANEJAMENTO E AVALIAÇÃO INSTITUCIONAL
SECRETARIA DE OBRAS

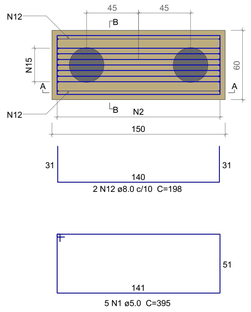
EMITTE LUCEM TUAM

Assinatura Qualificada realizada por: **Ederson Marcos Sgarbi** em 18/09/2026 15:26. Assinatura Avançada realizada por: **Juliana Costa Rossitto (XXX.979.129-XX)** em 04/09/2026 08:11 Local: UENP/RTA/PROPAV/SECOBRAS, **Christopher Ramos Sfeir (XXX.945.859-XX)** em 04/09/2026 08:19 Local: UENP/RTA/PROPAV/SECOBRAS. Assinatura Simples realizada por: **Maicon Hochscheidt (XXX.348.319-XX)** em 04/09/2026 08:19 Local: UENP/RTA/PROPAV/SECOBRAS. Inserido ao protocolo **26.535.000-3** por: **Amanda Alves da Silva** em: 04/09/2026 08:08. Documento assinado nos termos do Art. 38 do Decreto Estadual nº 7304/2021. A autenticidade deste documento pode ser validada no endereço: **https://www.eprotocolo.pr.gov.br/spiweb/validarDocumento** com o código: **f62cfc10bd1be01526ef54d641b5bf5**

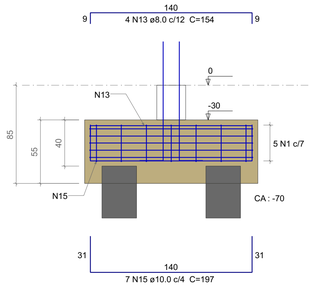
PROTOCOLO INTERNO DO CLIENTE
Fls. 122
Mod. 6

BII-P24
2xDN-30

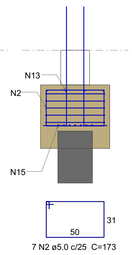
PLANTA
ESC 1:25



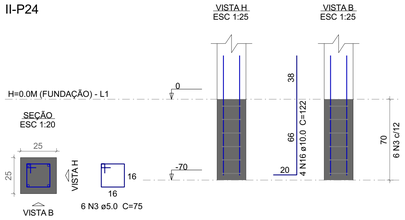
CORTE A-A
ESC 1:25



CORTE B-B
ESC 1:25

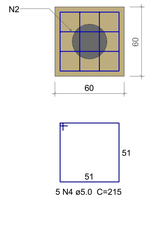


II-P24

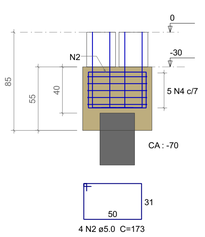


BIII-BL2-III-BL3
1xDN-30

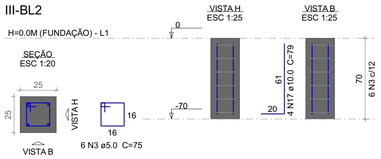
PLANTA
ESC 1:25



CORTE
ESC 1:25



III-BL2



Relação do aço

BII-P24	BIII-BL2-III-BL3	BIII-BL1-III-P17
BIII-BL4-III-P20	BIII-BL14-III-BL15	II-P24
III-BL1	III-BL2	III-BL3
III-BL4	2xIII-BL14	III-P17
III-P20		

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	17	395	6715
	2	5.0	11	173	1903
	3	5.0	28	75	2100
	4	5.0	5	215	1075
	5	5.0	36	60	2160
	6	5.0	21	183	3843
	7	5.0	4	105	420
	8	5.0	6	75	450
	9	5.0	7	31	217
	10	5.0	4	87	348
	11	5.0	6	69	414
CA50	12	8.0	2	198	396
	13	8.0	13	154	2002
	14	8.0	28	208	5824
	15	10.0	7	197	1379
	16	10.0	4	122	488
	17	10.0	8	79	632
	18	10.0	12	84	1008
	19	10.0	10	127	1270
	20	10.0	4	85	340

Resumo do aço

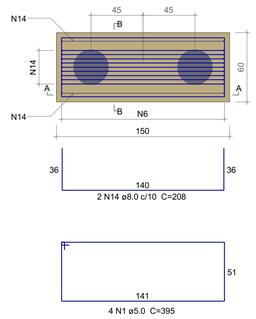
AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 10 % (Barras)	PESO + 10 % (kg)
CA50	8.0	82.3	8	35.7
	10.0	51.2	5	34.7
CA60	5.0	196.5	-	33.3

PESO TOTAL (kg)	
CA50	70.4
CA60	33.3

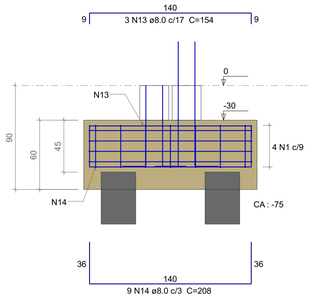
Volume de concreto (C-30) = 2.22 m³
Volume de concreto (C-25) = 0.18 m³
Área de forma = 13.98 m²

BIII-BL1-III-P17
2xDN-30

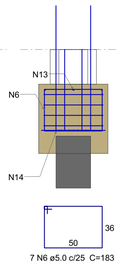
PLANTA
ESC 1:25



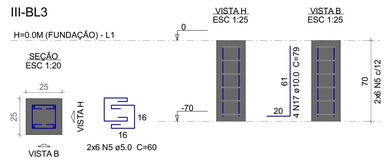
CORTE A-A
ESC 1:25



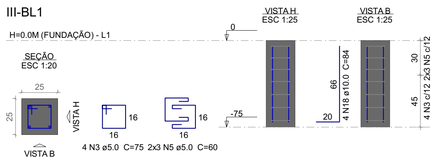
CORTE B-B
ESC 1:25



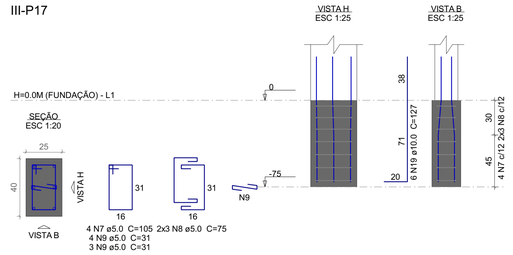
III-BL3



III-BL1

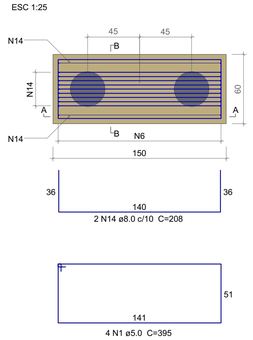


III-P17

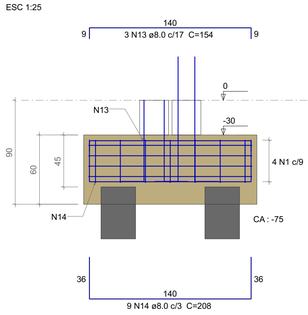


BIII-BL4-III-P20
2xDN-30

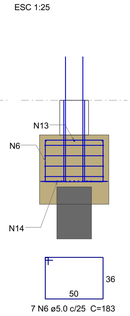
PLANTA
ESC 1:25



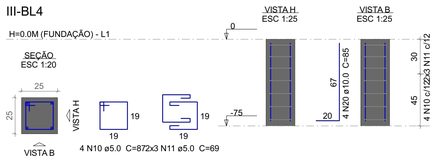
CORTE A-A
ESC 1:25



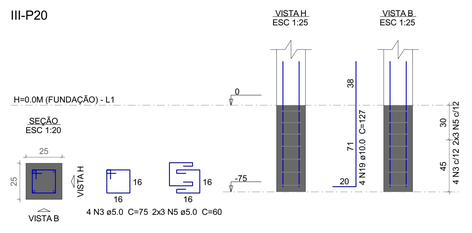
CORTE B-B
ESC 1:25



III-BL4

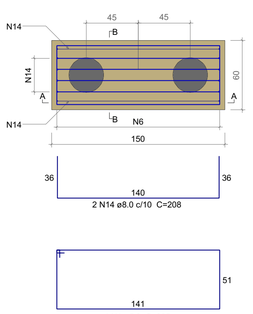


III-P20

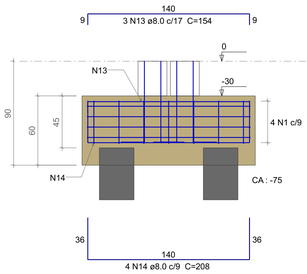


BIII-BL14-III-BL15
2xDN-30

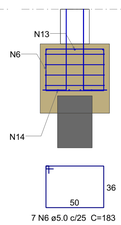
PLANTA
ESC 1:25



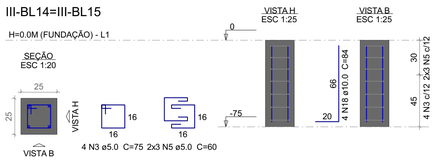
CORTE A-A
ESC 1:25



CORTE B-B
ESC 1:25



III-BL14=III-BL15



Nº	REVISÕES	DATA	
0	Emissão inicial	05/08/2026	Maicon Hochscheidt

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PROJETO
PROJETO ESTRUTURAL

OBRA
CENTRAL DE PÓS GRADUAÇÃO - CJ
h=0.0m
(FUNDAÇÃO)

PROPRIETÁRIO
UNIVERSIDADE ESTADUAL DO NORTE DO PARANÁ - UENP
CNPJ: 08.885.100/0001-54

RESPONSÁVEL TÉCNICO
ENG. CIVIL MAICON HOCHSCHEIDT
CREA PR-189719/D

DESENHO	DATA	ESCALA	PRANCHA
Maicon Hochscheidt	24/08/2026	Indicada	4 /13

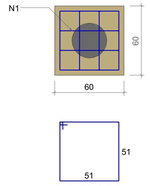
PROPAV
PRÓ-REITORIA DE PLANEJAMENTO E AVALIAÇÃO INSTITUCIONAL
SECRETARIA DE OBRAS

Assinatura Qualificada realizada por: **Ederson Marcos Sgarbi** em 18/09/2026 15:26. Assinatura Avançada realizada por: **Juliana Costa Rossitto (XXX.979.129-XX)** em 04/09/2026 08:11 Local: UENP/RTA/PROPAV/SECOBRAS, **Christopher Ramos Sfeir (XXX.945.859-XX)** em 04/09/2026 08:19 Local: UENP/RTA/PROPAV/SECOBRAS. Assinatura Simples realizada por: **Maicon Hochscheidt (XXX.348.319-XX)** em 04/09/2026 08:19 Local: UENP/RTA/PROPAV/SECOBRAS. Inserido ao protocolo **26.535.000-3** por: **Amanda Alves da Silva** em: 04/09/2026 08:08. Documento assinado nos termos do Art. 38 do Decreto Estadual nº 7304/2021. A autenticidade deste documento pode ser validada no endereço: **https://www.eprotocolo.pr.gov.br/spiweb/validarDocumento** com o código: **f62cfc10bd1be01526ef54d641b5bf5**

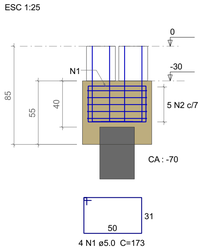
PROTOCOLO
Fls. 123
Mod. 6
INTERESSADO DO CARTÓRIO

BIII-BL16-III-BL17
1xDN-30

PLANTA
ESC 1:25

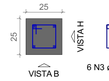


CORTE
ESC 1:25



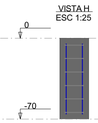
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H=0.0M (FUNDAÇÃO) - L1

SEÇÃO
ESC 1:20

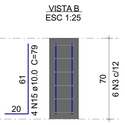


6 N3 ø5.0 C=75

VISTA H
ESC 1:25

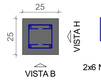


VISTA B
ESC 1:25



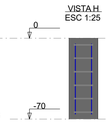
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H=0.0M (FUNDAÇÃO) - L1

SEÇÃO
ESC 1:20

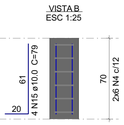


2x6 N4 ø5.0 C=60

VISTA H
ESC 1:25

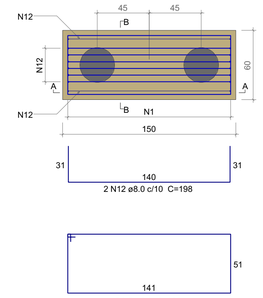


VISTA B
ESC 1:25

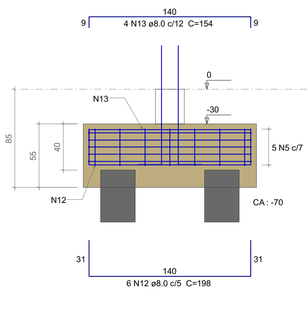


BIII-P50
2xDN-30

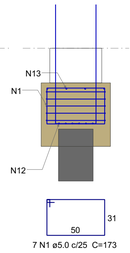
PLANTA
ESC 1:25



CORTE A-A
ESC 1:25



CORTE B-B
ESC 1:25



Relação do aço

BIII-BL16-III-BL17	BIII-P50	BIII-P5-III-P6
2xBIII-P60	BIII-P11-III-P12	BIII-P25-III-P26
BIII-P29-III-P30	III-BL16	III-BL17
2xIII-P5	III-P11	III-P12
2xIII-P25	III-P50	2xIII-P59

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	33	173	5709
	2	5.0	19	215	4085
	3	5.0	32	75	2400
	4	5.0	36	60	2160
	5	5.0	19	395	7505
	6	5.0	6	115	690
	7	5.0	30	31	930
	8	5.0	12	135	1620
	9	5.0	7	183	1281
	10	5.0	4	171	684
CA50	11	6.3	5	216	1080
	12	8.0	20	198	3960
	13	8.0	15	154	2310
	14	8.0	2	208	416
	15	10.0	8	79	632
	16	10.0	38	122	4636
	17	10.0	8	127	1016
	18	12.5	4	206	824

Resumo do aço

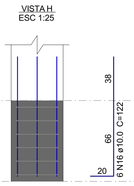
AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 10 % (Barras)	PESO + 10 % (kg)
CA50	6.3	10.8	1	2.9
	8.0	66.9	7	29
	10.0	62.9	6	42.6
	12.5	8.3	1	8.7
CA60	5.0	270.7	-	45.9

PESO TOTAL (kg)	
CA50	83.3
CA60	45.9

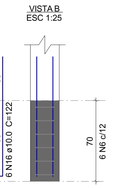
Volume de concreto (C-30) = 2.69 m³
Volume de concreto (C-25) = 0.27 m³
Área de forma = 18.51 m²

III-P50

VISTA H
ESC 1:25



VISTA B
ESC 1:25



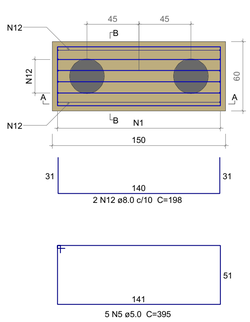
SEÇÃO
ESC 1:20



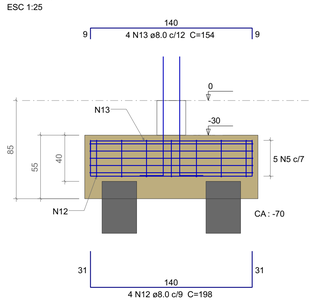
6 N6 ø5.0 C=115
6 N7 ø5.0 C=31

BIII-P59=BIII-P60
2xDN-30

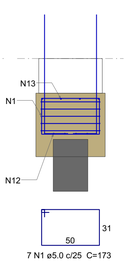
PLANTA
ESC 1:25



CORTE A-A
ESC 1:25

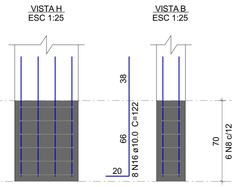


CORTE B-B
ESC 1:25



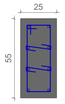
III-P59=III-P60

VISTA H
ESC 1:25



VISTA B
ESC 1:25

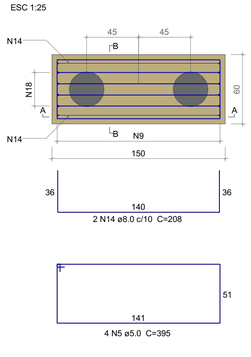
SEÇÃO
ESC 1:20



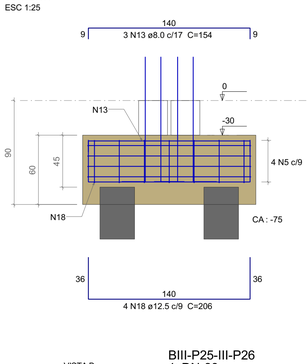
6 N8 ø5.0 C=135
2x6 N7 ø5.0 C=31

BIII-P5-III-P6
2xDN-30

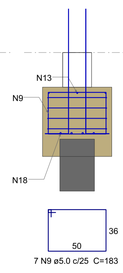
PLANTA
ESC 1:25



CORTE A-A
ESC 1:25

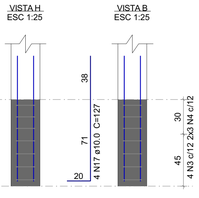


CORTE B-B
ESC 1:25



III-P5=III-P6

VISTA H
ESC 1:25



VISTA B
ESC 1:25

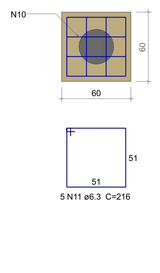
SEÇÃO
ESC 1:20



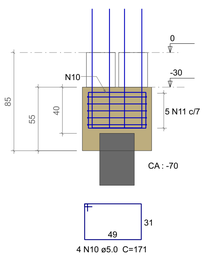
4 N3 ø5.0 C=75 2x3 N4 ø5.0 C=60

BIII-P11-III-P12
1xDN-30

PLANTA
ESC 1:25



CORTE
ESC 1:25



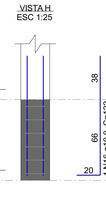
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H=0.0M (FUNDAÇÃO) - L1

SEÇÃO
ESC 1:20

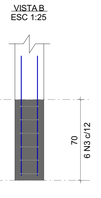


6 N3 ø5.0 C=75

VISTA H
ESC 1:25



VISTA B
ESC 1:25



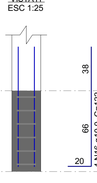
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SEÇÃO
ESC 1:20

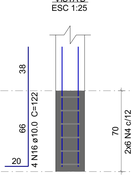


2x6 N4 ø5.0 C=60

VISTA H
ESC 1:25

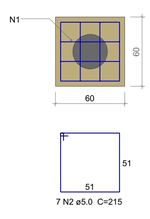


VISTA B
ESC 1:25

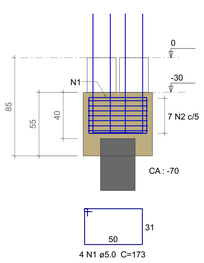


BIII-P25-III-P26
1xDN-30

PLANTA
ESC 1:25

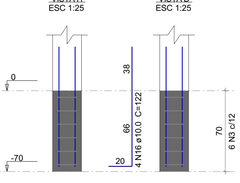


CORTE
ESC 1:25



III-P25=III-P26

VISTA H
ESC 1:25



VISTA B
ESC 1:25

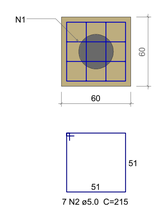
SEÇÃO
ESC 1:20



6 N3 ø5.0 C=75

BIII-P29-III-P30
1xDN-30

PLANTA
ESC 1:25



CORTE
ESC 1:25

Nº	REVISÕES	DATA	
0	Emissão inicial	05/08/2026	Maicon Hochscheidt

UENP
UNIVERSIDADE ESTADUAL DO NORTE DO PARANÁ

PROJETO
PROJETO ESTRUTURAL

OBRA
CENTRAL DE PÓS GRADUAÇÃO - CJ
h=0.0m
(FUNDAÇÃO)

PROPRIETÁRIO
UNIVERSIDADE ESTADUAL DO NORTE DO PARANÁ - UENP
CNPJ: 08.885.100/0001-54

RESPONSÁVEL TÉCNICO
ENG. CIVIL MAICON HOCHSCHEIDT
CREA PR-189719/D

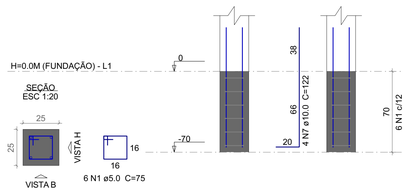
DESENHO	DATA	ESCALA	PRANCHA
Maicon Hochscheidt	24/08/2026	Indicada	5 /13

PROPAV
PRÓ-REITORIA DE PLANEJAMENTO E AVALIAÇÃO INSTITUCIONAL
SECRETARIA DE OBRAS

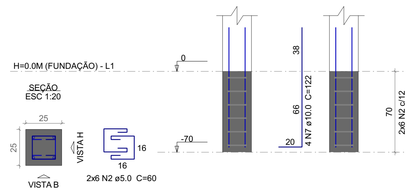
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PROTOCOLO
Fls. 124
Mod. 6
INTERESSADO DO ESTADO

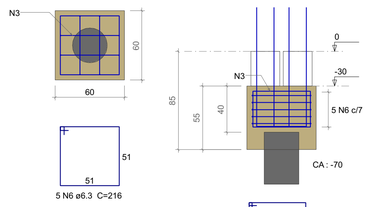
III-P29



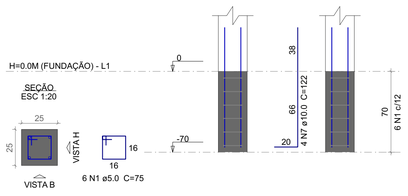
III-P30



BIII-P35-III-P36
1xDN-30



III-P35=III-P36



Relação do aço

BIII-P35-III-P36	BIII-P39-III-P40	BIII-P47-III-P48
BIII-P53-III-P54	III-P29	III-P30
2xIII-P35	III-P39	III-P40
2xIII-P47	III-P53	III-P54

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	42	75	3150
	2	5.0	36	60	2160
	3	5.0	12	171	2052
	4	5.0	4	173	692
	5	5.0	6	215	1290
CA50	6	6.3	16	216	3456
	7	10.0	40	122	4880

Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 10 % (Barras)	PESO + 10 % (kg)
CA50	6.3	34.6	4	9.3
	10.0	48.8	5	33.1
CA60	5.0	93.5	-	15.8

PESO TOTAL (kg)	
CA50	42.4
CA60	15.8

Volume de concreto (C-25) = 0.19 m³
Volume de concreto (C-30) = 0.75 m³
Área de forma = 8.28 m²

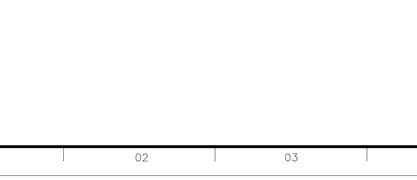
BIII-P39-III-P40
1xDN-30

III-P39

III-P40

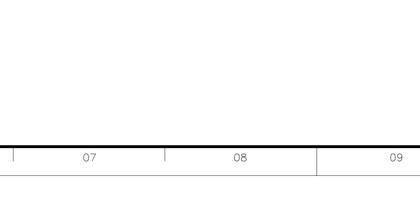
BIII-P47-III-P48
1xDN-30

III-P47=III-P48

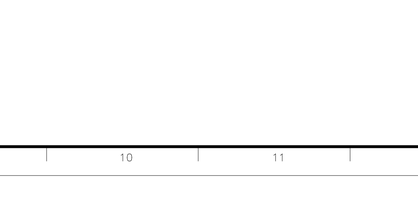


BIII-P53-III-P54
1xDN-30

III-P53



III-P54



Nº	REVISÕES	DATA	
0	Emissão inicial	05/08/2026	Maicon Hochscheidt

UENP
UNIVERSIDADE ESTADUAL DO NORTE DO PARANÁ

PROJETO: PROJETO ESTRUTURAL

OBRA: CENTRAL DE PÓS GRADUAÇÃO - CJ
h=0.0m
(FUNDAÇÃO)

PROPRIETÁRIO: UNIVERSIDADE ESTADUAL DO NORTE DO PARANÁ - UENP
CNPJ: 08.885.100/0001-54

RESPONSÁVEL TÉCNICO: ENG. CIVIL MAICON HOCHSCHEIDT
CREA PR-189719/D

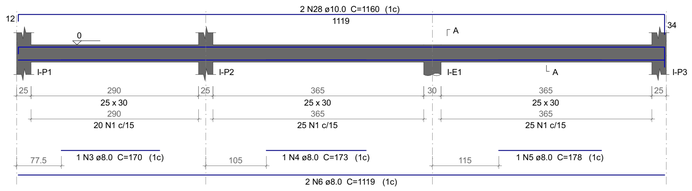
DESENHO	DATA	ESCALA	PRANCHA
Maicon Hochscheidt	24/08/2026	Indicada	6 /13

PROPAV
PRÓ-REITORIA DE PLANEJAMENTO E AVALIAÇÃO INSTITUCIONAL
SECRETARIA DE OBRAS

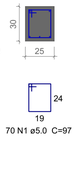
Assinatura Qualificada realizada por: **Ederson Marcos Sgarbi** em 18/09/2026 15:26. Assinatura Avançada realizada por: **Juliana Costa Rossitto (XXX.979.129-XX)** em 04/09/2026 08:11 Local: UENP/RTA/PROPAV/SECOBRAS, **Christopher Ramos Sfeir (XXX.945.859-XX)** em 04/09/2026 08:19 Local: UENP/RTA/PROPAV/SECOBRAS. Assinatura Simples realizada por: **Maicon Hochscheidt (XXX.348.319-XX)** em 04/09/2026 08:19 Local: UENP/RTA/PROPAV/SECOBRAS. Inserido ao protocolo **26.535.000-3** por: **Amanda Alves da Silva** em: 04/09/2026 08:08. Documento assinado nos termos do Art. 38 do Decreto Estadual nº 7304/2021. A autenticidade deste documento pode ser validada no endereço: **https://www.eprotocolo.pr.gov.br/spiweb/validarDocumento** com o código: **f62cfc10bd1be01526ef54d641b5bf5**

PROTOCOLO
Fls. 125
Mod. - 6
GOVERNO DO ESTADO

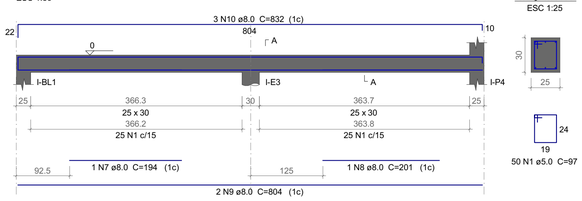
I-VB1
ESC 1:50



SEÇÃO A-A
ESC 1:25

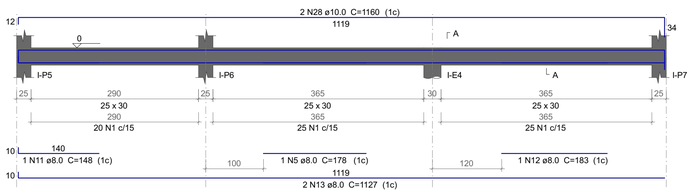


I-VB2
ESC 1:50

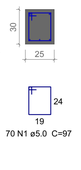


SEÇÃO A-A
ESC 1:25

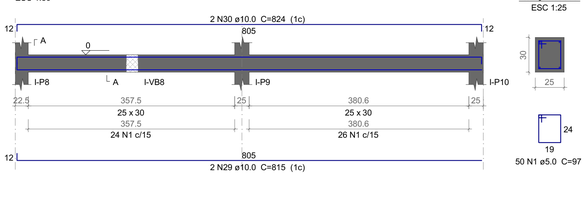
I-VB3
ESC 1:50



SEÇÃO A-A
ESC 1:25

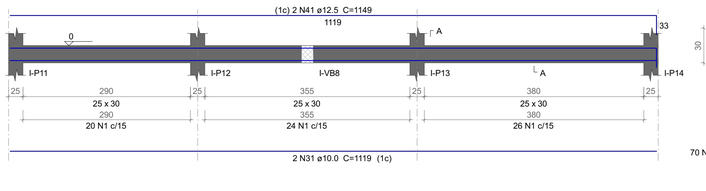


I-VB4
ESC 1:50

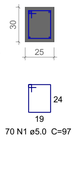


SEÇÃO A-A
ESC 1:25

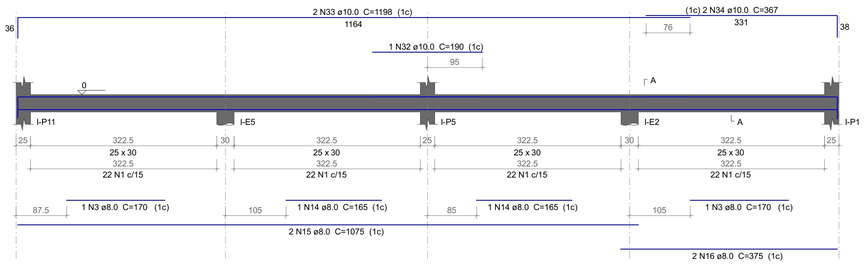
I-VB5
ESC 1:50



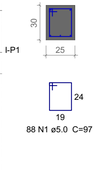
SEÇÃO A-A
ESC 1:25



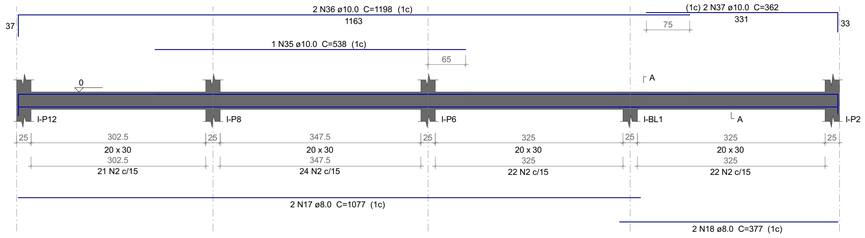
I-VB6
ESC 1:50



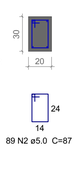
SEÇÃO A-A
ESC 1:25



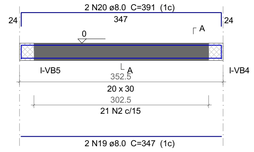
I-VB7
ESC 1:50



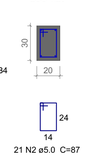
SEÇÃO A-A
ESC 1:25



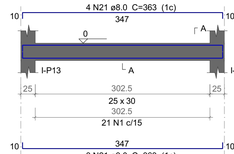
I-VB8
ESC 1:50



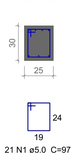
SEÇÃO A-A
ESC 1:25



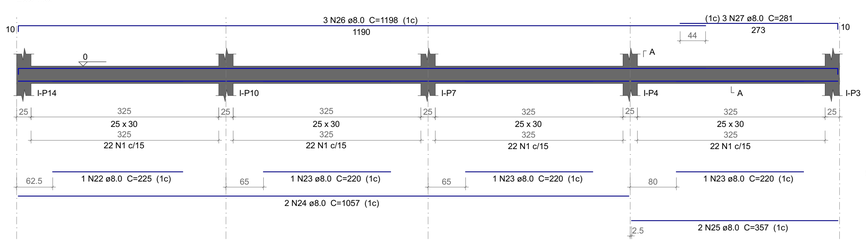
I-VB9
ESC 1:50



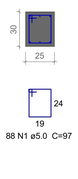
SEÇÃO A-A
ESC 1:25



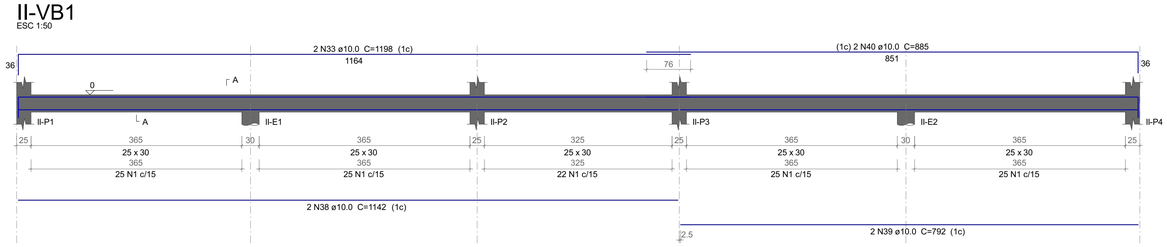
I-VB10
ESC 1:50



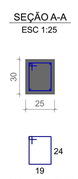
SEÇÃO A-A
ESC 1:25



II-VB1
ESC 1:50



SEÇÃO A-A
ESC 1:25



Relação do aço

I-VB1 I-VB2 I-VB3
I-VB4 I-VB5 I-VB6
I-VB7 I-VB8 I-VB9
I-VB10 II-VB1

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	629	97	61013
	2	5.0	110	87	9570
CA50	3	8.0	3	170	510
	4	8.0	1	173	173
	5	8.0	2	178	356
	6	8.0	2	1119	2238
	7	8.0	1	194	194
	8	8.0	1	201	201
	9	8.0	2	804	1608
	10	8.0	3	832	2496
	11	8.0	1	148	148
	12	8.0	1	183	183
	13	8.0	2	1127	2254
	14	8.0	2	165	330
	15	8.0	2	1075	2150
	16	8.0	2	375	750
	17	8.0	2	1077	2154
	18	8.0	2	377	754
	19	8.0	2	347	694
	20	8.0	2	391	782
	21	8.0	7	363	2541
	22	8.0	1	225	225
	23	8.0	3	220	660
	24	8.0	2	1057	2114
	25	8.0	2	357	714
	26	8.0	3	1198	3594
	27	8.0	3	281	843
	28	10.0	4	1160	4640
	29	10.0	2	815	1630
	30	10.0	2	824	1648
	31	10.0	2	1119	2238
	32	10.0	1	190	190
	33	10.0	4	1198	4792
	34	10.0	2	367	734
	35	10.0	1	538	538
	36	10.0	2	1198	2396
	37	10.0	2	362	724
	38	10.0	2	1142	2284
	39	10.0	2	792	1584
	40	10.0	2	885	1770
	41	12.5	2	1149	2298

Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 10 % (Barras)	PESO + 10 % (kg)
CA50	8.0	286.7	27	124.4
	10.0	251.7	24	170.7
	12.5	23	3	24.4
CA60	5.0	705.9	-	119.7
PESO TOTAL (kg)				
CA50	319.5			
CA60	119.7			

Volume de concreto (C-25) = 8.06 m³
Área de forma = 93.3 m²

Nº	REVISÕES	DATA	
0	Emissão inicial	05/08/2026	Maicon Hochscheidt

UENP
UNIVERSIDADE ESTADUAL DO NORTE DO PARANÁ

PROJETO
PROJETO ESTRUTURAL

OBRA
CENTRAL DE PÓS GRADUAÇÃO - CJ
h=0.0m
(FUNDAÇÃO)

PROPRIETÁRIO
UNIVERSIDADE ESTADUAL DO NORTE DO PARANÁ - UENP
CNPJ: 08.885.100/0001-54

RESPONSÁVEL TÉCNICO
ENG. CIVIL MAICON HOCHSCHEIDT
CREA PR-189719/D

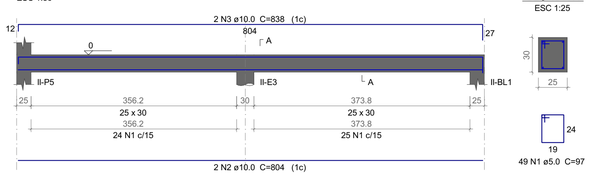
DESENHO	DATA	ESCALA	PRANCHA
Maicon Hochscheidt	24/08/2026	Indicada	7 /13

PROPAV
PRÓ-REITORIA DE PLANEJAMENTO E AVALIAÇÃO INSTITUCIONAL
SECRETARIA DE OBRAS

Assinatura Qualificada realizada por: **Ederson Marcos Sgarbi** em 18/09/2026 15:26. Assinatura Avançada realizada por: **Juliana Costa Rossitto (XXX.979.129-XX)** em 04/09/2026 08:11 Local: UENP/RTA/PROPAV/SECOBRAS, **Christopher Ramos Sfeir (XXX.945.859-XX)** em 04/09/2026 08:19 Local: UENP/RTA/PROPAV/SECOBRAS. Assinatura Simples realizada por: **Maicon Hochscheidt (XXX.348.319-XX)** em 04/09/2026 08:19 Local: UENP/RTA/PROPAV/SECOBRAS. Inserido ao protocolo **26.535.000-3** por: **Amanda Alves da Silva** em: 04/09/2026 08:08. Documento assinado nos termos do Art. 38 do Decreto Estadual nº 7304/2021. A autenticidade deste documento pode ser validada no endereço: **https://www.eprotocolo.pr.gov.br/spiweb/validarDocumento** com o código: **f62cfc10bd1be01526ef54d641b5bf5**

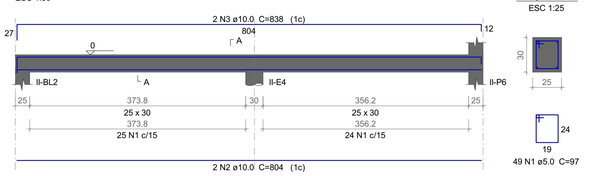
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Mod. - 6
INTERESSADO DO ESTADO

II-VB2
ESC 1:50



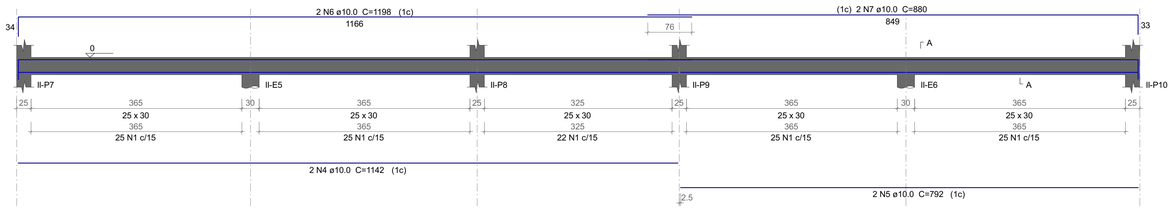
SEÇÃO A-A
ESC 1:25

II-VB3
ESC 1:50

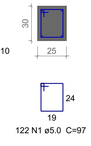


SEÇÃO A-A
ESC 1:25

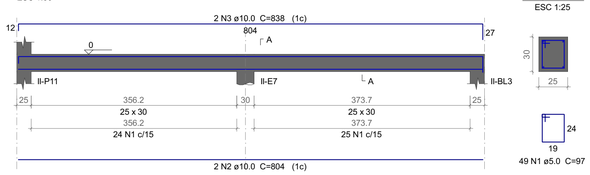
II-VB4
ESC 1:50



SEÇÃO A-A
ESC 1:25

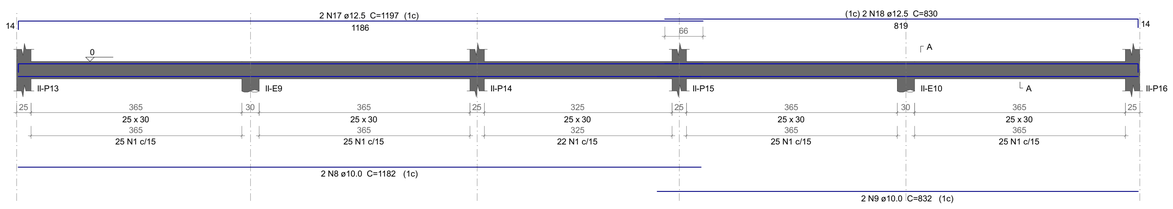


II-VB5
ESC 1:50

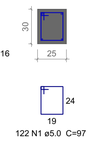


SEÇÃO A-A
ESC 1:25

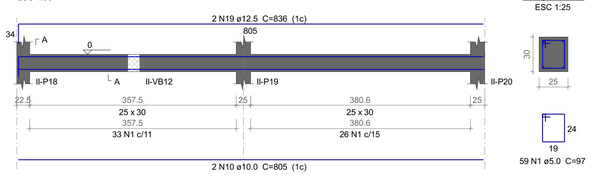
II-VB6
ESC 1:50



SEÇÃO A-A
ESC 1:25

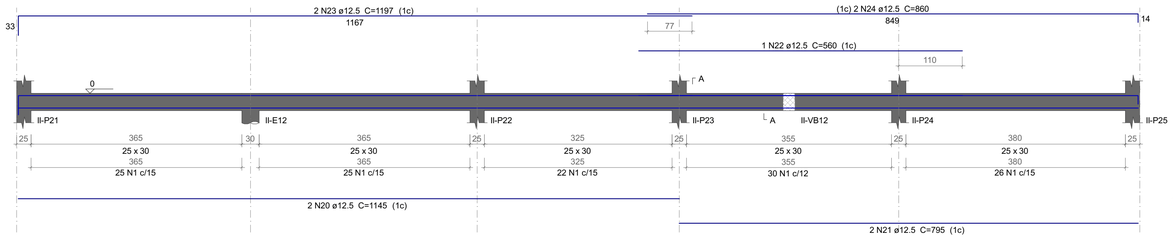


II-VB7
ESC 1:50

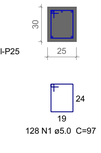


SEÇÃO A-A
ESC 1:25

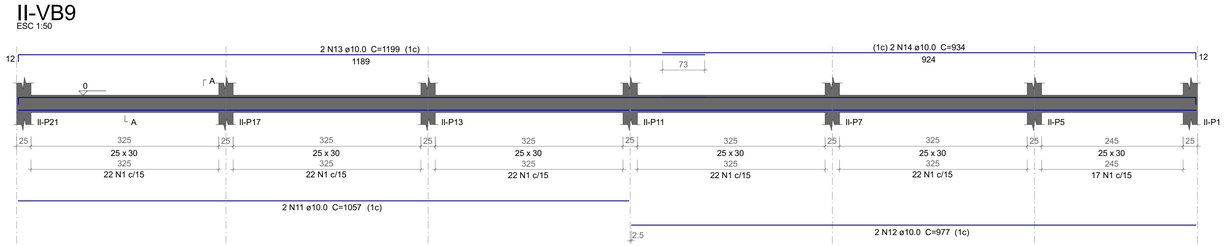
II-VB8
ESC 1:50



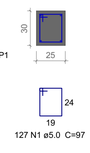
SEÇÃO A-A
ESC 1:25



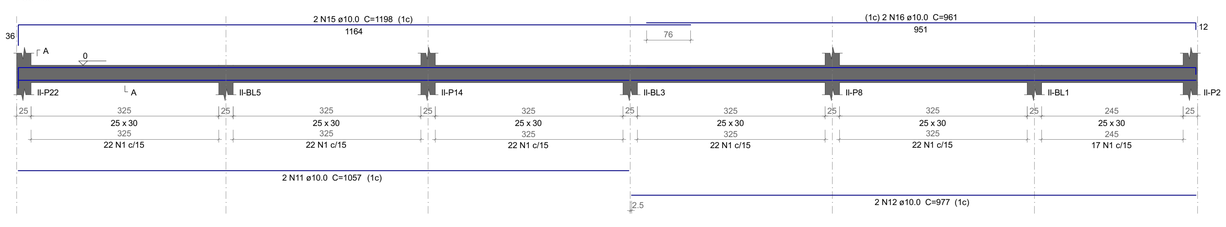
II-VB9
ESC 1:50



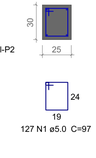
SEÇÃO A-A
ESC 1:25



II-VB10
ESC 1:50



SEÇÃO A-A
ESC 1:25



Relação do aço

II-VB2 II-VB3 II-VB4
II-VB5 II-VB6 II-VB7
II-VB8 II-VB9 II-VB10

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	832	97	80704
CA50	2	10.0	6	804	4824
	3	10.0	6	838	5028
	4	10.0	2	1142	2284
	5	10.0	2	792	1584
	6	10.0	2	1198	2396
	7	10.0	2	880	1760
	8	10.0	2	1182	2364
	9	10.0	2	832	1664
	10	10.0	2	805	1610
	11	10.0	4	1057	4228
	12	10.0	4	977	3908
	13	10.0	2	1199	2398
	14	10.0	2	934	1868
	15	10.0	2	1198	2396
	16	10.0	2	961	1922
	17	12.5	2	1197	2394
	18	12.5	2	830	1660
	19	12.5	2	836	1672
	20	12.5	2	1145	2290
	21	12.5	2	795	1590
	22	12.5	1	560	560
	23	12.5	2	1197	2394
	24	12.5	2	860	1720

Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 10 % (Barras)	PESO + 10 % (kg)
CA50	10.0	402.4	37	272.9
	12.5	142.8	14	151.3
CA60	5.0	807.1	-	136.8

PESO TOTAL (kg)	
CA50	424.2
CA60	136.8

Volume de concreto (C-25) = 9.22 m³
Área de forma = 104.49 m²

Nº	REVISÕES	DATA	
0	Emissão inicial	05/08/2026	Maicon Hochscheidt

UENP
UNIVERSIDADE ESTADUAL DO NORTE DO PARANÁ

PROJETO: PROJETO ESTRUTURAL
OBRA: CENTRAL DE PÓS GRADUAÇÃO - CJ
h=0.0m (FUNDAÇÃO)

PROPRIETÁRIO: UNIVERSIDADE ESTADUAL DO NORTE DO PARANÁ - UENP CNPJ. 08.885.100/0001-54

RESPONSÁVEL TÉCNICO: ENG. CIVIL MAICON HOCHSCHEIDT CREA PR-189719/D

DESENHO: Maicon Hochscheidt | DATA: 24/08/2026 | ESCALA: Indicada

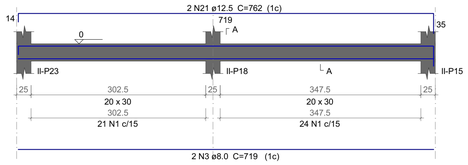
PROPAV
PRÓ-REITORIA DE PLANEJAMENTO E AVALIAÇÃO INSTITUCIONAL
SECRETARIA DE OBRAS

PRANCHA 8 /13

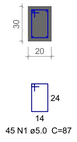
Assinatura Qualificada realizada por: **Ederson Marcos Sgarbi** em 18/09/2026 15:26. Assinatura Avançada realizada por: **Juliana Costa Rossitto (XXX.979.129-XX)** em 04/09/2026 08:11 Local: UENP/RTA/PROPAV/SECOBRAS, **Christopher Ramos Sfeir (XXX.945.859-XX)** em 04/09/2026 08:19 Local: UENP/RTA/PROPAV/SECOBRAS. Assinatura Simples realizada por: **Maicon Hochscheidt (XXX.348.319-XX)** em 04/09/2026 08:19 Local: UENP/RTA/PROPAV/SECOBRAS. Inserido ao protocolo **26.535.000-3** por: **Amanda Alves da Silva** em: 04/09/2026 08:08. Documento assinado nos termos do Art. 38 do Decreto Estadual nº 7304/2021. A autenticidade deste documento pode ser validada no endereço: **https://www.eprotocolo.pr.gov.br/spiweb/validarDocumento** com o código: **f62cfc10bd1be01526ef54d641b5bf5**

PROTOCOLO INTERNO DO CLIENTE
Fls. 127
Mod. 6

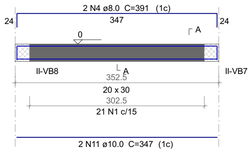
II-VB11
ESC 1:50



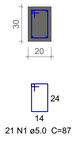
SEÇÃO A-A
ESC 1:25



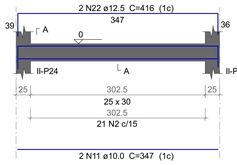
II-VB12
ESC 1:50



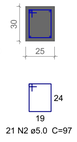
SEÇÃO A-A
ESC 1:25



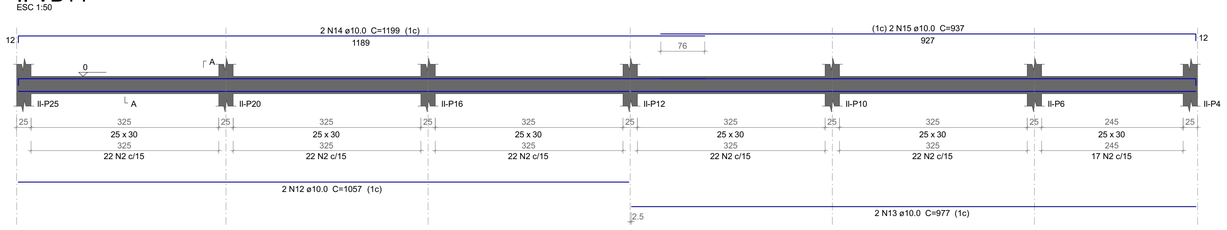
II-VB13
ESC 1:50



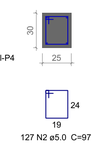
SEÇÃO A-A
ESC 1:25



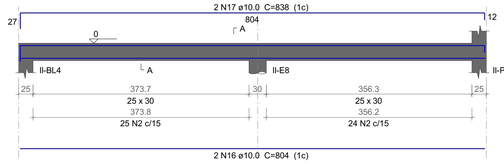
II-VB14
ESC 1:50



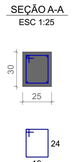
SEÇÃO A-A
ESC 1:25



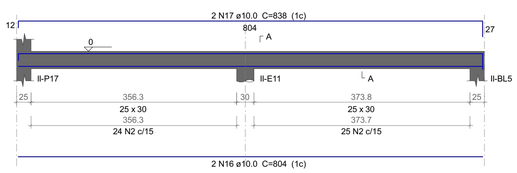
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ESC 1:50



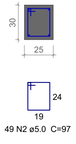
SEÇÃO A-A
ESC 1:25



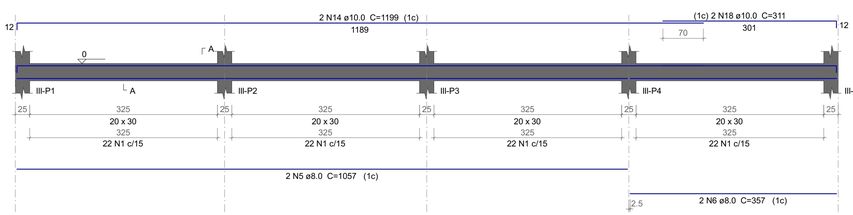
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ESC 1:50



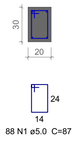
SEÇÃO A-A
ESC 1:25



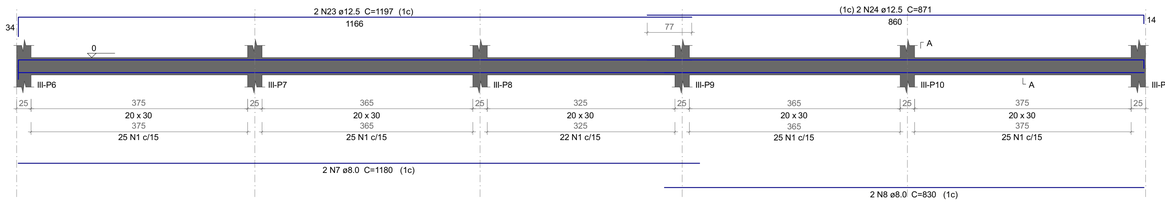
III-VB3
ESC 1:50



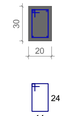
SEÇÃO A-A
ESC 1:25



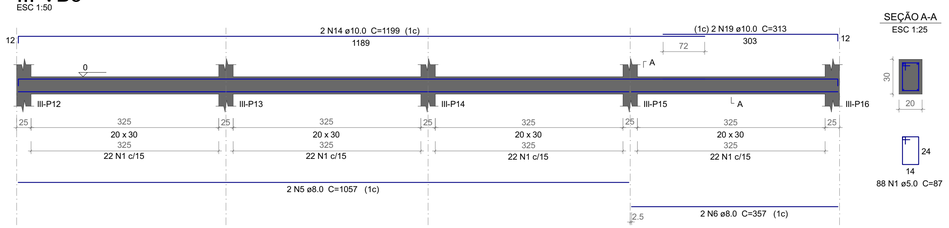
III-VB4
ESC 1:50



SEÇÃO A-A
ESC 1:25

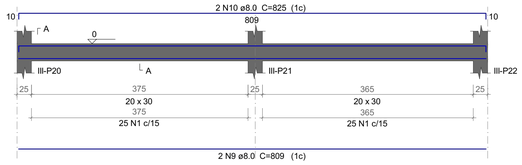


III-VB5
ESC 1:50

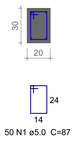


SEÇÃO A-A
ESC 1:25

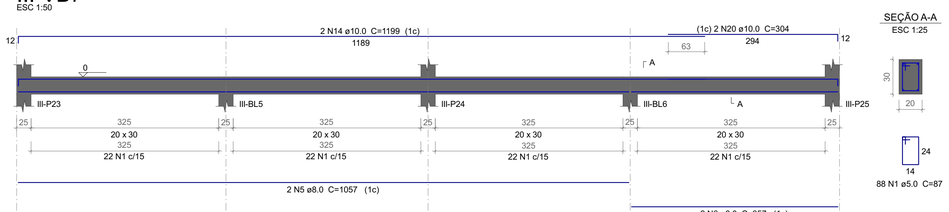
III-VB6
ESC 1:50



SEÇÃO A-A
ESC 1:25



III-VB7
ESC 1:50



SEÇÃO A-A
ESC 1:25

Relação do aço

II-VB11	II-VB12	II-VB13
II-VB14	III-VB1	III-VB2
III-VB3	III-VB4	III-VB5
III-VB6	III-VB7	

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	502	87	43674
	2	5.0	246	97	23862
CA50	3	8.0	2	719	1438
	4	8.0	2	391	782
	5	8.0	6	1057	6342
	6	8.0	6	357	2142
	7	8.0	2	1180	2360
	8	8.0	2	830	1660
	9	8.0	2	809	1618
	10	8.0	2	825	1650
	11	10.0	4	347	1388
	12	10.0	2	1057	2114
	13	10.0	2	977	1954
	14	10.0	8	1199	9592
	15	10.0	2	937	1874
	16	10.0	4	804	3216
	17	10.0	4	838	3352
	18	10.0	2	311	622
	19	10.0	2	313	626
	20	10.0	2	304	608
	21	12.5	2	762	1524
	22	12.5	2	416	832
	23	12.5	2	1197	2394
	24	12.5	2	871	1742

Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 10 % (Barras)	PESO + 10 % (kg)
CA50	8.0	180	17	78.1
	10.0	253.5	24	171.9
	12.5	65	6	68.8
CA60	5.0	675.4	-	114.5

PESO TOTAL (kg)	
CA50	318.8
CA60	114.5

Volume de concreto (C-25) = 7.22 m³
Área de forma = 90.77 m²

Nº	REVISÕES	DATA	
0	Emissão inicial	05/08/2026	Maicon Hochscheidt

UENP
UNIVERSIDADE ESTADUAL DO NORTE DO PARANÁ

PROJETO: PROJETO ESTRUTURAL
OBRA: CENTRAL DE PÓS GRADUAÇÃO - CJ
h=0.0m (FUNDAÇÃO)

PROPRIETÁRIO: UNIVERSIDADE ESTADUAL DO NORTE DO PARANÁ - UENP
CNPJ: 08.885.100/0001-54

RESPONSÁVEL TÉCNICO: ENG. CIVIL MAICON HOCHSCHEIDT
CREA PR-189719/D

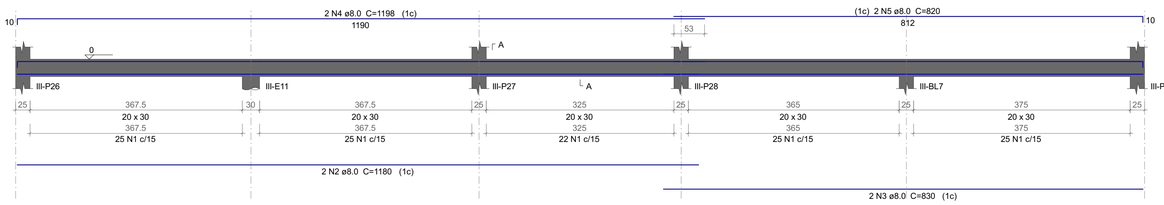
DESENHO	DATA	ESCALA	PRANCHA
Maicon Hochscheidt	24/08/2026	Indicada	9 /13

PROPAV
PRÓ-REITORIA DE PLANEJAMENTO E AVALIAÇÃO INSTITUCIONAL
SECRETARIA DE OBRAS

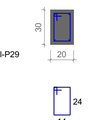
Assinatura Qualificada realizada por: **Ederson Marcos Sgarbi** em 18/09/2026 15:26. Assinatura Avançada realizada por: **Juliana Costa Rossitto (XXX.979.129-XX)** em 04/09/2026 08:11 Local: UENP/RTA/PROPAV/SECOBRAS, **Christopher Ramos Sfeir (XXX.945.859-XX)** em 04/09/2026 08:19 Local: UENP/RTA/PROPAV/SECOBRAS. Assinatura Simples realizada por: **Maicon Hochscheidt (XXX.348.319-XX)** em 04/09/2026 08:19 Local: UENP/RTA/PROPAV/SECOBRAS. Inserido ao protocolo **26.535.000-3** por: **Amanda Alves da Silva** em: 04/09/2026 08:08. Documento assinado nos termos do Art. 38 do Decreto Estadual nº 7304/2021. A autenticidade deste documento pode ser validada no endereço: **https://www.eprotocolo.pr.gov.br/spiweb/validarDocumento** com o código: **f62cfc10bd1be01526ef54d641b5bf5**

PROTOCOLO
Fls. 128
Mod. - 6
INTERESSADO DO ESTADO

III-VB8
ESC 1:50

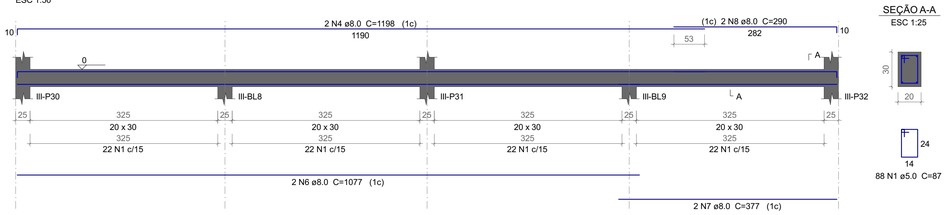


SEÇÃO A-A
ESC 1:25



122 N1 ø5.0 C=87

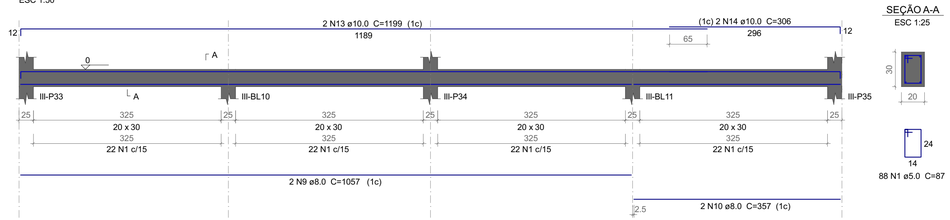
III-VB9
ESC 1:50



SEÇÃO A-A
ESC 1:25

88 N1 ø5.0 C=87

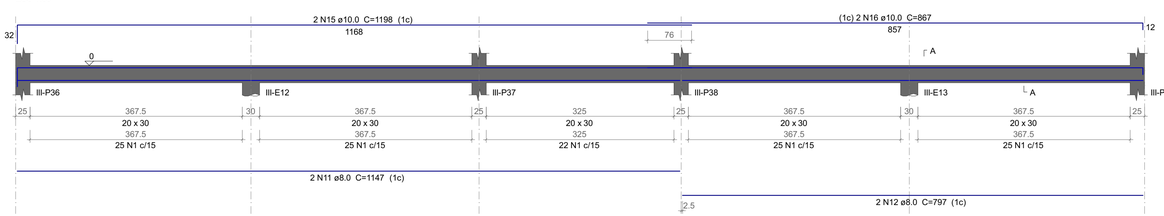
III-VB10
ESC 1:50



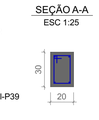
SEÇÃO A-A
ESC 1:25

88 N1 ø5.0 C=87

III-VB11
ESC 1:50



SEÇÃO A-A
ESC 1:25



122 N1 ø5.0 C=87

III-VB12
ESC 1:50



SEÇÃO A-A
ESC 1:25

88 N1 ø5.0 C=87

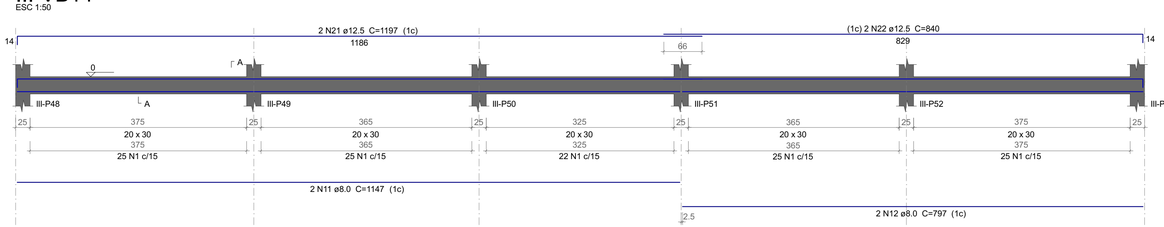
III-VB13
ESC 1:50



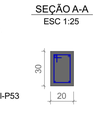
SEÇÃO A-A
ESC 1:25

88 N1 ø5.0 C=87

III-VB14
ESC 1:50

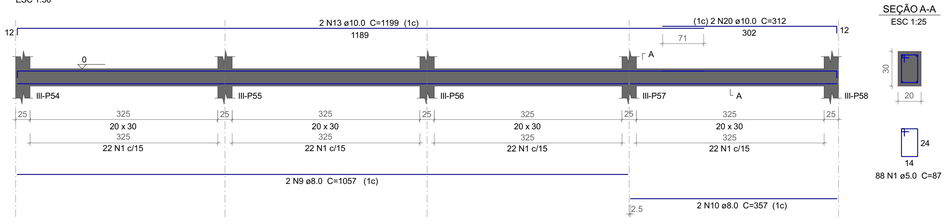


SEÇÃO A-A
ESC 1:25



122 N1 ø5.0 C=87

III-VB15
ESC 1:50



SEÇÃO A-A
ESC 1:25

88 N1 ø5.0 C=87

Relação do aço

III-VB8 III-VB9 III-VB10
III-VB11 III-VB12 III-VB13
III-VB14 III-VB15

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	806	87	70122
CA50	2	8.0	2	1180	2360
	3	8.0	2	830	1660
	4	8.0	4	1198	4792
	5	8.0	2	820	1640
	6	8.0	2	1077	2154
	7	8.0	2	377	754
	8	8.0	2	290	580
	9	8.0	8	1057	8456
	10	8.0	8	357	2856
	11	8.0	4	1147	4588
	12	8.0	4	797	3188
	13	10.0	6	1199	7194
	14	10.0	2	306	612
	15	10.0	2	1198	2396
	16	10.0	2	867	1734
	17	10.0	2	304	608
	18	10.0	2	1200	2400
	19	10.0	2	298	596
	20	10.0	2	312	624
	21	12.5	2	1197	2394
	22	12.5	2	840	1680

Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 10 % (Barras)	PESO + 10 % (kg)
CA50	8.0	330.3	31	143.4
	10.0	161.7	15	109.6
	12.5	40.8	4	43.2
CA60	5.0	701.3	-	118.9

PESO TOTAL (kg)	
CA50	296.1
CA60	118.9

Volume de concreto (C-25) = 7.19 m³
Área de forma = 95.92 m²

Nº	REVISÕES	DATA	
0	Emissão inicial	05/08/2026	Maicon Hochscheidt

UENP
UNIVERSIDADE ESTADUAL DO NORTE DO PARANÁ

PROJETO
PROJETO ESTRUTURAL

OBRA
CENTRAL DE PÓS GRADUAÇÃO - CJ
h=0.0m
(FUNDAÇÃO)

PROPRIETÁRIO
UNIVERSIDADE ESTADUAL DO NORTE DO PARANÁ - UENP
CNPJ: 08.885.100/0001-54

RESPONSÁVEL TÉCNICO
ENG. CIVIL MAICON HOCHSCHEIDT
CREA PR-189719/D

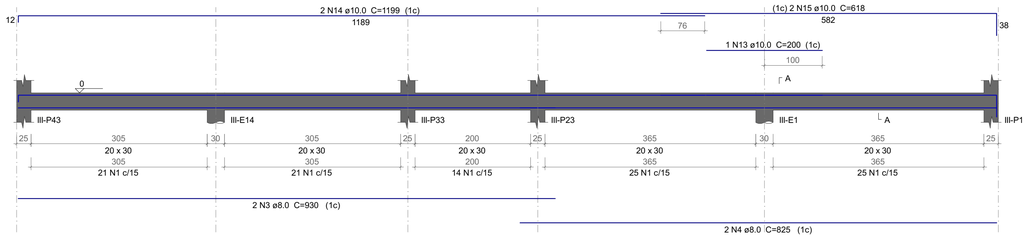
DESENHO: Maicon Hochscheidt
DATA: 24/08/2026
ESCALA: Indicada
PRANCHA: 10 /13

PROPAV
PRÓ-REITORIA DE PLANEJAMENTO E AVALIAÇÃO INSTITUCIONAL
SECRETARIA DE OBRAS

Assinatura Qualificada realizada por: **Ederson Marcos Sgarbi** em 18/09/2026 15:26. Assinatura Avançada realizada por: **Juliana Costa Rossitto (XXX.979.129-XX)** em 04/09/2026 08:11 Local: UENP/RTA/PROPAV/SECOBRAS, **Christopher Ramos Sfeir (XXX.945.859-XX)** em 04/09/2026 08:19 Local: UENP/RTA/PROPAV/SECOBRAS. Assinatura Simples realizada por: **Maicon Hochscheidt (XXX.348.319-XX)** em 04/09/2026 08:19 Local: UENP/RTA/PROPAV/SECOBRAS. Inserido ao protocolo **26.535.000-3** por: **Amanda Alves da Silva** em: 04/09/2026 08:08. Documento assinado nos termos do Art. 38 do Decreto Estadual nº 7304/2021. A autenticidade deste documento pode ser validada no endereço: **https://www.eprotocolo.pr.gov.br/spiweb/validarDocumento** com o código: **f62cfc10bd1be01526ef54d641b5bf5**

PROTOCOLO
Fls. 129
Mov. 6
INTERESSADO DO ESTADO

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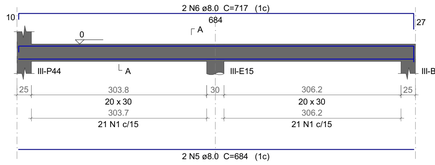


SEÇÃO A-A
ESC 1:25



106 N1 ø5.0 C=87

III-VB17
ESC 1:50

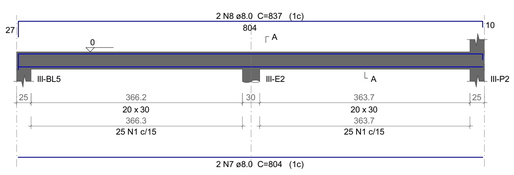


SEÇÃO A-A
ESC 1:25



42 N1 ø5.0 C=87

III-VB18
ESC 1:50

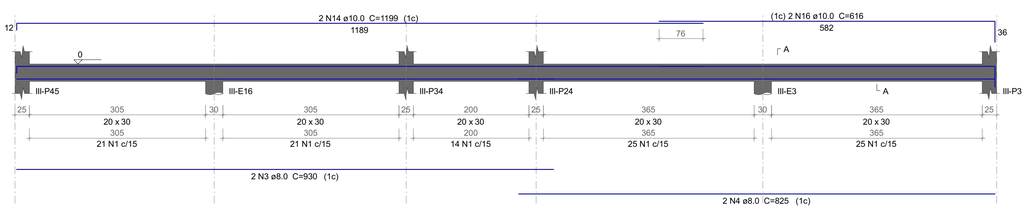


SEÇÃO A-A
ESC 1:25



50 N1 ø5.0 C=87

III-VB19
ESC 1:50

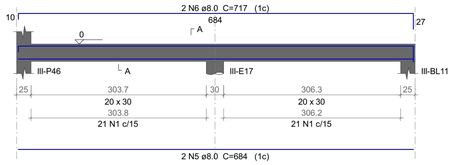


SEÇÃO A-A
ESC 1:25



106 N1 ø5.0 C=87

III-VB20
ESC 1:50

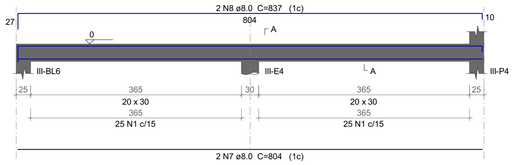


SEÇÃO A-A
ESC 1:25



42 N1 ø5.0 C=87

III-VB21
ESC 1:50

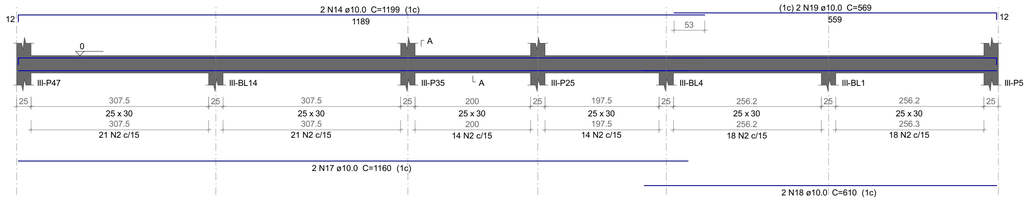


SEÇÃO A-A
ESC 1:25

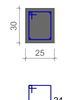


50 N1 ø5.0 C=87

III-VB22
ESC 1:50

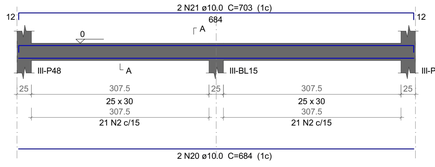


SEÇÃO A-A
ESC 1:25

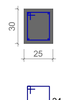


106 N2 ø5.0 C=97

III-VB23
ESC 1:50

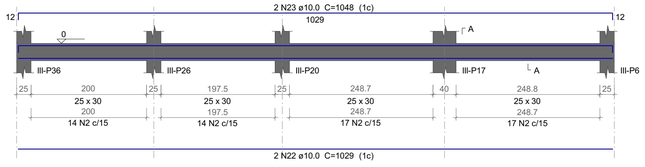


SEÇÃO A-A
ESC 1:25

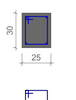


42 N2 ø5.0 C=97

III-VB24
ESC 1:50

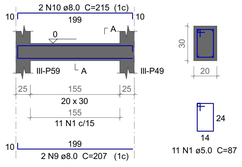


SEÇÃO A-A
ESC 1:25



62 N2 ø5.0 C=97

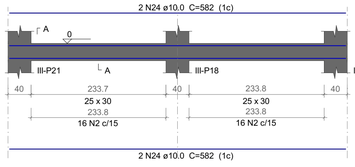
III-VB25
ESC 1:50



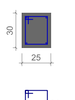
SEÇÃO A-A
ESC 1:25

11 N1 ø5.0 C=87

III-VB26
ESC 1:50

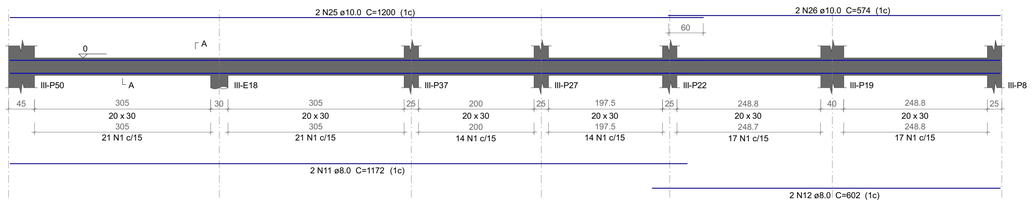


SEÇÃO A-A
ESC 1:25



32 N2 ø5.0 C=97

III-VB27
ESC 1:50



SEÇÃO A-A
ESC 1:25



104 N1 ø5.0 C=87

Relação do aço

III-VB16	III-VB17	III-VB18
III-VB19	III-VB20	III-VB21
III-VB22	III-VB23	III-VB24
III-VB25	III-VB26	III-VB27

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	511	87	44457
	2	5.0	242	97	23474
CA50	3	8.0	4	930	3720
	4	8.0	4	825	3300
	5	8.0	4	684	2736
	6	8.0	4	717	2868
	7	8.0	4	804	3216
	8	8.0	4	837	3348
	9	8.0	2	207	414
	10	8.0	2	215	430
	11	8.0	2	1172	2344
	12	8.0	2	602	1204
	13	10.0	1	200	200
	14	10.0	6	1199	7194
	15	10.0	2	618	1236
	16	10.0	2	616	1232
	17	10.0	2	1160	2320
	18	10.0	2	610	1220
	19	10.0	2	569	1138
	20	10.0	2	684	1368
	21	10.0	2	703	1406
	22	10.0	2	1029	2058
	23	10.0	2	1048	2096
	24	10.0	4	582	2328
	25	10.0	2	1200	2400
	26	10.0	2	574	1148

Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 10 % (Barras)	PESO + 10 % (kg)
CA50	8.0	235.8	22	102.3
	10.0	273.5	26	185.4
CA60	5.0	679.4	-	115.2

PESO TOTAL (kg)	
CA50	287.8
CA60	115.2

Volume de concreto (C-25) = 7.24 m³
Área de forma = 91.29 m²

Nº	REVISÕES	DATA	
0	Emissão inicial	05/08/2026	Maicon Hochscheidt

UENP
UNIVERSIDADE ESTADUAL DO NORTE DO PARANÁ

PROJETO
PROJETO ESTRUTURAL

OBRA
CENTRAL DE PÓS GRADUAÇÃO - CJ
h=0.0m
(FUNDAÇÃO)

PROPRIETÁRIO
UNIVERSIDADE ESTADUAL DO NORTE DO PARANÁ - UENP
CNPJ: 08.885.100/0001-54

RESPONSÁVEL TÉCNICO
ENG. CIVIL MAICON HOCHSCHEIDT
CREA PR-189719/D

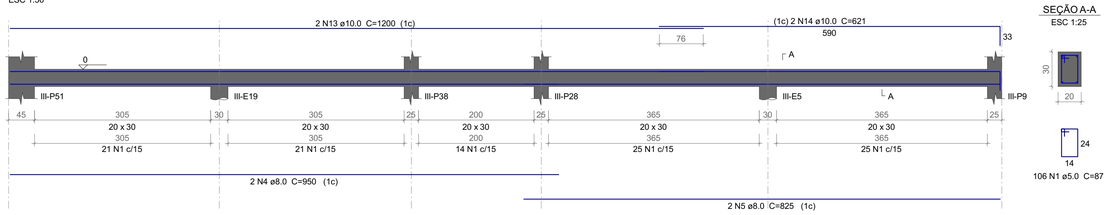
DESENHO	DATA	ESCALA	PRANCHA
Maicon Hochscheidt	24/08/2026	Indicada	11 /13

PROPAV
PRÓ-REITORIA DE PLANEJAMENTO E AVALIAÇÃO INSTITUCIONAL
SECRETARIA DE OBRAS

Assinatura Qualificada realizada por: **Ederson Marcos Sgarbi** em 18/09/2026 15:26. Assinatura Avançada realizada por: **Juliana Costa Rossitto (XXX.979.129-XX)** em 04/09/2026 08:11 Local: UENP/RTA/PROPAV/SECOBRAS, **Christopher Ramos Sfeir (XXX.945.859-XX)** em 04/09/2026 08:19 Local: UENP/RTA/PROPAV/SECOBRAS. Assinatura Simples realizada por: **Maicon Hochscheidt (XXX.348.319-XX)** em 04/09/2026 08:19 Local: UENP/RTA/PROPAV/SECOBRAS. Inserido ao protocolo **26.535.000-3** por: **Amanda Alves da Silva** em: 04/09/2026 08:08. Documento assinado nos termos do Art. 38 do Decreto Estadual nº 7304/2021. A autenticidade deste documento pode ser validada no endereço: **https://www.eprotocolo.pr.gov.br/spiweb/validarDocumento** com o código: **f62cfc10bd1be01526ef54d641b5bf5**

PROTOCOLO INTERNO DO ESTADO
Fls. 130
Mov. 6

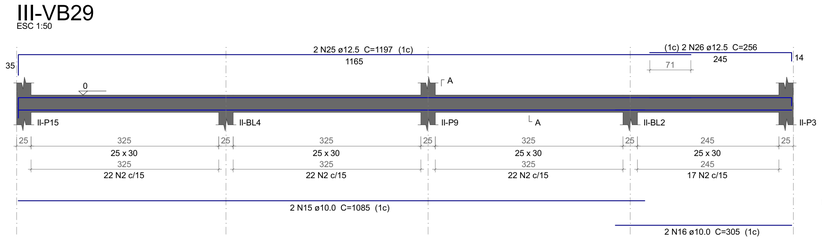
III-VB28
ESC 1:50



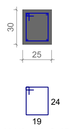
SEÇÃO A-A
ESC 1:25

106 N1 ø5.0 C=87

III-VB29
ESC 1:50

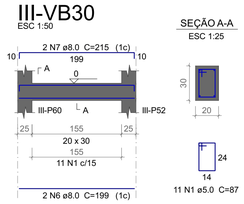


SEÇÃO A-A
ESC 1:25



83 N2 ø5.0 C=97

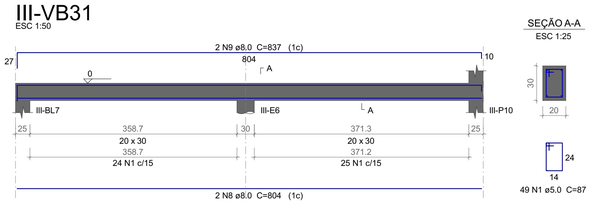
III-VB30
ESC 1:50



SEÇÃO A-A
ESC 1:25

11 N1 ø5.0 C=87

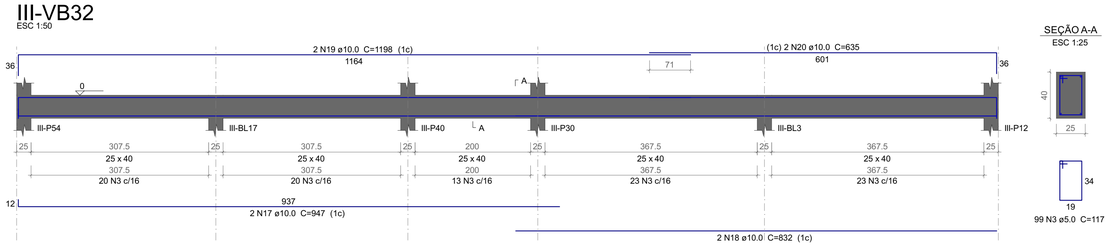
III-VB31
ESC 1:50



SEÇÃO A-A
ESC 1:25

49 N1 ø5.0 C=87

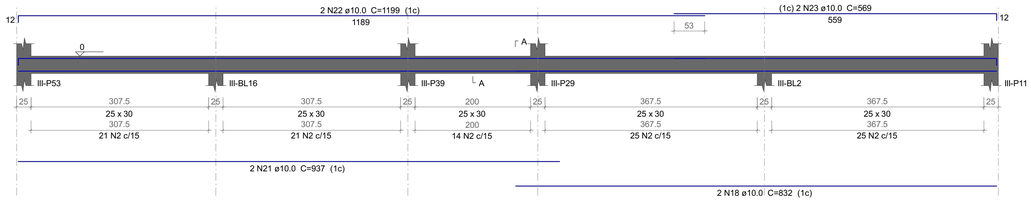
III-VB32
ESC 1:50



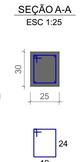
SEÇÃO A-A
ESC 1:25

99 N3 ø5.0 C=117

III-VB33
ESC 1:50

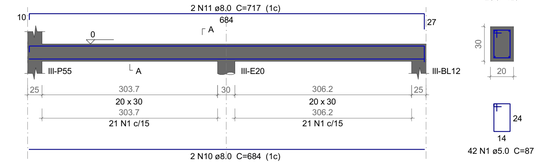


SEÇÃO A-A
ESC 1:25



106 N2 ø5.0 C=97

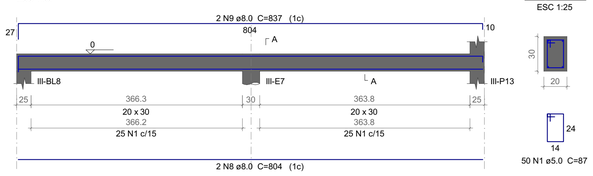
III-VB34
ESC 1:50



SEÇÃO A-A
ESC 1:25

42 N1 ø5.0 C=87

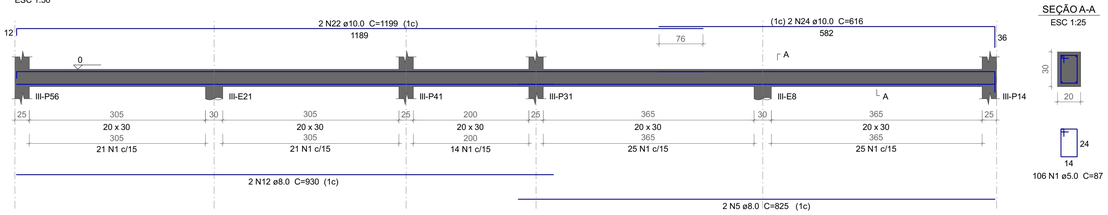
III-VB35
ESC 1:50



SEÇÃO A-A
ESC 1:25

50 N1 ø5.0 C=87

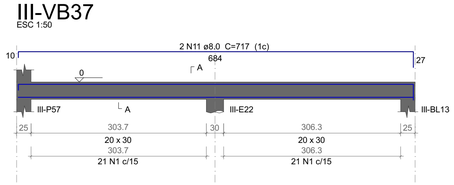
III-VB36
ESC 1:50



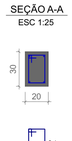
SEÇÃO A-A
ESC 1:25

106 N1 ø5.0 C=87

III-VB37
ESC 1:50

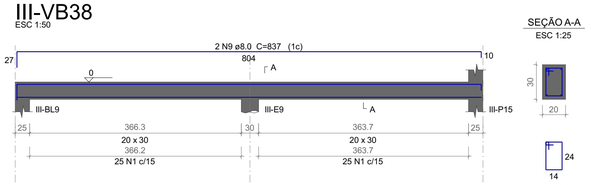


SEÇÃO A-A
ESC 1:25



42 N1 ø5.0 C=87

III-VB38
ESC 1:50



SEÇÃO A-A
ESC 1:25

50 N1 ø5.0 C=87

Relação do aço

III-VB28 III-VB29 III-VB30
III-VB31 III-VB32 III-VB33
III-VB34 III-VB35 III-VB36
III-VB37 III-VB38

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	456	87	39672
	2	5.0	189	97	18333
	3	5.0	99	117	11583
CA50	4	8.0	2	950	1900
	5	8.0	4	825	3300
	6	8.0	2	199	398
	7	8.0	2	215	430
	8	8.0	6	804	4824
	9	8.0	6	837	5022
	10	8.0	4	684	2736
	11	8.0	4	717	2868
	12	8.0	2	930	1860
	13	10.0	2	1200	2400
	14	10.0	2	621	1242
	15	10.0	2	1085	2170
	16	10.0	2	305	610
	17	10.0	2	947	1894
	18	10.0	4	832	3328
	19	10.0	2	1198	2396
	20	10.0	2	635	1270
	21	10.0	2	937	1874
	22	10.0	4	1199	4796
	23	10.0	2	569	1138
	24	10.0	2	616	1232
	25	12.5	2	1197	2394
	26	12.5	2	256	512

Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 10 % (Barras)	PESO + 10 % (kg)
CA50	8.0	233.4	22	101.3
	10.0	243.5	23	165.1
	12.5	29.1	3	30.8
CA60	5.0	695.9	-	118

PESO TOTAL (kg)	
CA50	297.2
CA60	118

Volume de concreto (C-25) = 7.78 m³
Área de forma = 95.14 m²

Nº	REVISÕES	DATA	
0	Emissão inicial	05/08/2026	Maicon Hochscheidt

UENP
UNIVERSIDADE ESTADUAL DO NORTE DO PARANÁ

PROJETO: PROJETO ESTRUTURAL
OBRA: CENTRAL DE PÓS GRADUAÇÃO - CJ
h=0.0m
(FUNDAÇÃO)

PROPRIETÁRIO: UNIVERSIDADE ESTADUAL DO NORTE DO PARANÁ - UENP
CNPJ: 08.885.100/0001-54

RESPONSÁVEL TÉCNICO: ENG. CIVIL MAICON HOCHSCHEIDT
CREA PR-189719/D

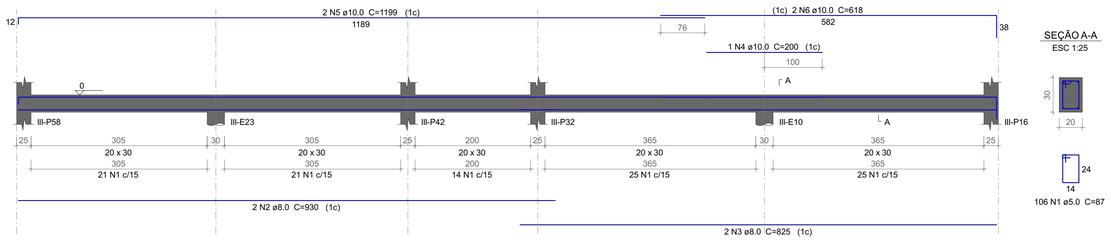
DESENHO	DATA	ESCALA	PRANCHA
Maicon Hochscheidt	24/08/2026	Indicada	12 /13

PROPAV
PRÓ-REITORIA DE PLANEJAMENTO E AVALIAÇÃO INSTITUCIONAL
SECRETARIA DE OBRAS

Assinatura Qualificada realizada por: **Ederson Marcos Sgarbi** em 18/09/2026 15:26. Assinatura Avançada realizada por: **Juliana Costa Rossitto (XXX.979.129-XX)** em 04/09/2026 08:11 Local: UENP/RTA/PROPAV/SECOBRAS, **Christopher Ramos Sfeir (XXX.945.859-XX)** em 04/09/2026 08:19 Local: UENP/RTA/PROPAV/SECOBRAS. Assinatura Simples realizada por: **Maicon Hochscheidt (XXX.348.319-XX)** em 04/09/2026 08:19 Local: UENP/RTA/PROPAV/SECOBRAS. Inserido ao protocolo **26.535.000-3** por: **Amanda Alves da Silva** em: 04/09/2026 08:08. Documento assinado nos termos do Art. 38 do Decreto Estadual nº 7304/2021. A autenticidade deste documento pode ser validada no endereço: **https://www.eprotocolo.pr.gov.br/spiweb/validarDocumento** com o código: **f62cfc10bd1be01526ef54d641b5bf5**

III-VB39

ESC 1:50



SEÇÃO A-A

ESC 1:25

106 N1 ø5.0 C=87

Relação do aço

III-VB39

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	106	87	9222
CA50	2	8.0	2	930	1860
	3	8.0	2	825	1650
	4	10.0	1	200	200
	5	10.0	2	1199	2398
	6	10.0	2	618	1236

Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 10 % (Barras)	PESO + 10 % (kg)
CA50	8.0	35.1	4	15.2
	10.0	38.4	4	26
CA60	5.0	92.3	-	15.6

PESO TOTAL (kg)	
CA50	41.2
CA60	15.6

Volume de concreto (C-25) = 0.96 m³
Área de forma = 12.8 m²

Nº	REVISÕES	DATA	
0	Emissão inicial	05/08/2026	Maicon Hochscheidt

UENP

UNIVERSIDADE ESTADUAL DO NORTE DO PARANÁ

PROJETO: PROJETO ESTRUTURAL

OBRA: CENTRAL DE PÓS GRADUAÇÃO - CJ
h=0.0m
(FUNDAÇÃO)

PROPRIETÁRIO: UNIVERSIDADE ESTADUAL DO NORTE DO PARANÁ - UENP
CNPJ: 08.885.100/0001-54

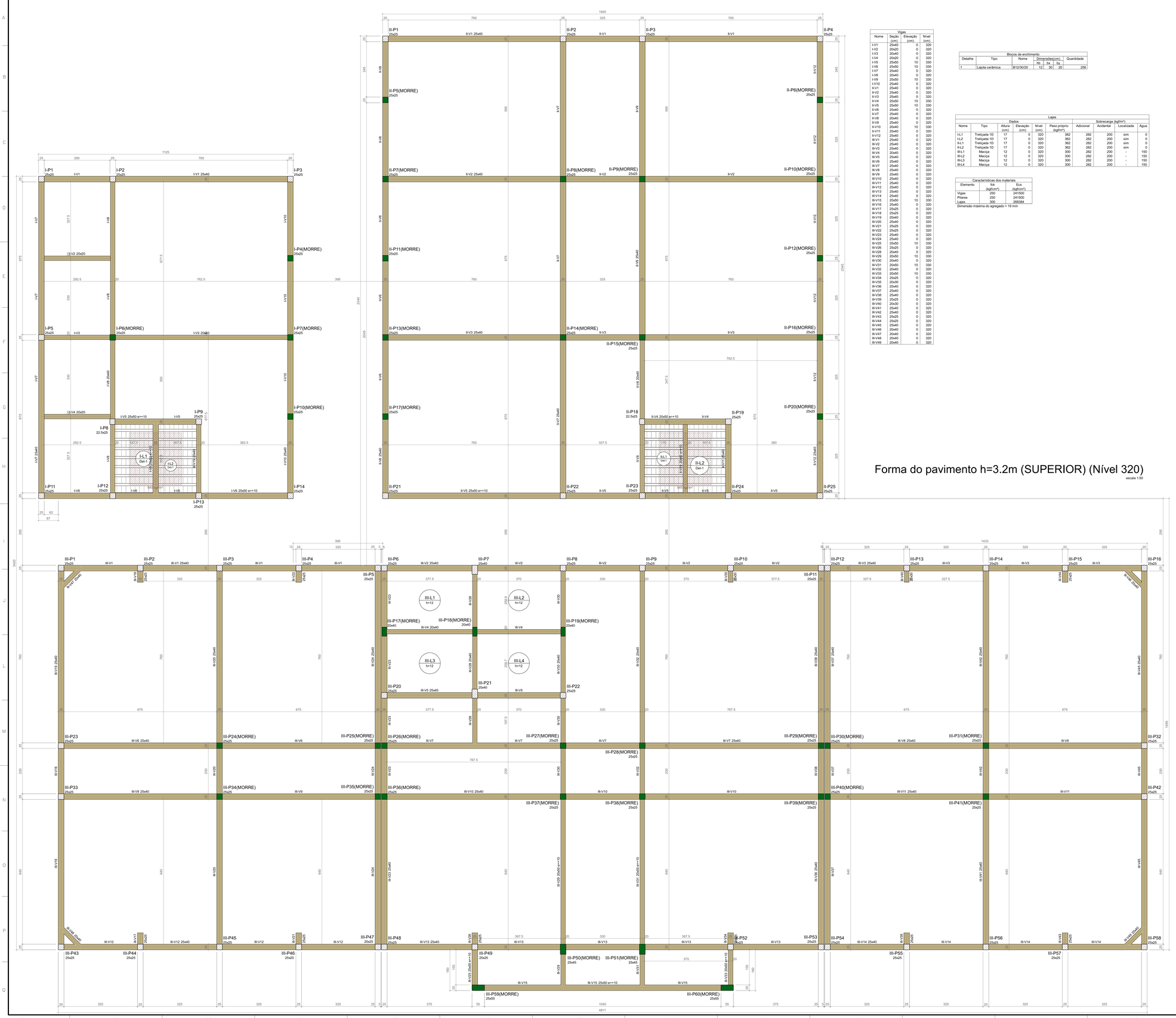
RESPONSÁVEL TÉCNICO: ENG. CIVIL MAICON HOCHSCHEIDT
CREA PR-189719/D

DESENHO	DATA	ESCALA	PRANCHA
Maicon Hochscheidt	24/08/2026	Indicada	13 /13

PROPAV
PRÓ-REITORIA DE PLANEJAMENTO E AVALIAÇÃO INSTITUCIONAL
SECRETARIA DE OBRAS

PROTOCOLO INTEGRADO DO ESTADO
Nro. 131
Mov. 6

Assinatura Qualificada realizada por: **Ederson Marcos Sgarbi** em 18/09/2026 15:26. Assinatura Avançada realizada por: **Juliana Costa Rossitto (XXX.979.129-XX)** em 04/09/2026 08:11 Local: UENP/RTA/PROPAV/SECOBRAS, **Christopher Ramos Sfeir (XXX.945.859-XX)** em 04/09/2026 08:19 Local: UENP/RTA/PROPAV/SECOBRAS. Assinatura Simples realizada por: **Maicon Hochscheidt (XXX.348.319-XX)** em 04/09/2026 08:19 Local: UENP/RTA/PROPAV/SECOBRAS. Inserido ao protocolo **26.535.000-3** por: **Amanda Alves da Silva** em: 04/09/2026 08:08. Documento assinado nos termos do Art. 38 do Decreto Estadual nº 7304/2021. A autenticidade deste documento pode ser validada no endereço: **https://www.eprotocolo.pr.gov.br/spiweb/validarDocumento** com o código: **f62cfc10bd1be01526ef54d641b5bf5**



Forma do pavimento h=3.2m (SUPERIOR) (Nível 320)

escala 1:50

Vigas

Nome	Seção (cm)	Elevação (cm)	Nível (cm)
I-V1	25x40	0	320
I-V2	20x20	0	320
I-V3	20x40	0	320
I-V4	20x20	0	320
I-V5	25x50	10	330
I-V6	25x50	10	330
I-V7	25x40	0	320
I-V8	20x40	0	320
I-V9	25x50	10	330
I-V10	25x40	0	320
II-V1	25x40	0	320
II-V2	25x40	0	320
II-V3	25x40	0	320
II-V4	20x40	0	320
II-V5	25x40	0	320
II-V6	25x40	0	320
II-V7	25x40	0	320
II-V8	25x40	0	320
II-V9	25x40	0	320
II-V10	25x40	0	320
II-V11	25x40	0	320
II-V12	25x40	0	320
II-V13	25x40	0	320
II-V14	25x40	0	320
II-V15	25x50	10	330
II-V16	25x40	0	320
II-V17	25x25	0	320
II-V18	25x25	0	320
II-V19	20x40	0	320
II-V20	25x40	0	320
II-V21	25x25	0	320
II-V22	25x25	0	320
II-V23	25x40	0	320
II-V24	25x40	0	320
II-V25	25x50	10	330
II-V26	25x25	0	320
II-V28	20x40	0	320
II-V29	20x50	10	330
II-V30	20x40	0	320
II-V31	20x50	10	330
II-V32	20x40	0	320
II-V33	20x50	10	330
II-V34	25x25	0	320
II-V35	20x30	0	320
II-V36	25x40	0	320
II-V37	25x40	0	320
II-V38	25x40	0	320
II-V39	25x25	0	320
II-V40	20x30	0	320
II-V41	25x40	0	320
II-V42	25x40	0	320
II-V43	25x25	0	320
II-V44	25x25	0	320
II-V45	25x40	0	320
III-V46	20x40	0	320
III-V47	20x40	0	320
III-V48	20x40	0	320
III-V49	20x40	0	320

Blocos de enchimento

Detalhe	Tipo	Nome	Dimensões(cm) bp.	bx	by.	Quantidade
1	Lajota cerâmica	B12/30/20	12	30	20	256

Lajes

Nome	Tipo	Altura (cm)	Elevação (cm)	Nível (cm)	Peso próprio (kgf/m²)	Sobrecarga (kgf/m²) Adicional	Acidental	Localizada	Água
I-L1	Treliçada 1D	17	0	320	362	282	200	sim	0
I-L2	Treliçada 1D	17	0	320	362	282	200	sim	0
II-L1	Treliçada 1D	17	0	320	362	282	200	sim	0
II-L2	Treliçada 1D	17	0	320	362	282	200	sim	0
III-L1	Maciça	12	0	320	300	282	200	-	150
III-L2	Maciça	12	0	320	300	282	200	-	150
III-L3	Maciça	12	0	320	300	282	200	-	150
III-L4	Maciça	12	0	320	300	282	200	-	150

Características dos materiais

Elemento	fck (kgf/cm²)	Ecs (kgf/cm²)
Vigas	250	241500
Pilares	250	241500
Lajes	300	265384

Dimensão máxima do agregado = 19 mm

Pilares

Nome	Seção (cm)	Elevação (cm)	Nível (cm)
I-P1	25x25	0	320
I-P2	25x25	0	320
I-P3	25x25	0	320
I-P4	25x25	0	320
I-P5	25x25	0	320
I-P6	25x25	0	320
I-P7	25x25	0	320
I-P8	22.5x25	0	320
I-P9	25x25	0	320
I-P10	25x25	0	320
I-P11	25x25	0	320
I-P12	25x25	0	320
I-P13	25x25	0	320
I-P14	25x25	0	320
II-P1	25x25	0	320
II-P2	25x25	0	320
II-P3	25x25	0	320
II-P4	25x25	0	320
II-P5	25x25	0	320
II-P6	25x25	0	320
II-P7	25x25	0	320
II-P8	25x25	0	320
II-P9	25x25	0	320
II-P10	25x25	0	320
II-P11	25x25	0	320
II-P12	25x25	0	320
II-P13	25x25	0	320
II-P14	25x25	0	320
II-P15	25x25	0	320
II-P16	25x25	0	320
II-P17	25x25	0	320
II-P18	22.5x25	10	330
II-P19	25x25	10	330
II-P20	25x25	0	320
II-P21	25x25	0	320
II-P22	25x25	0	320
II-P23	25x25	0	320
II-P24	25x25	0	320
II-P25	25x25	0	320
III-P1	25x25	0	320
III-P2	25x25	0	320
III-P3	25x25	0	320
III-P4	25x25	0	320
III-P5	25x25	0	320
III-P6	25x25	0	320
III-P7	25x40	0	320
III-P8	25x25	0	320
III-P9	25x25	0	320
III-P10	25x25	0	320
III-P11	25x25	0	320
III-P12	25x25	0	320
III-P13	25x25	0	320
III-P14	25x25	0	320
III-P15	25x25	0	320
III-P16	25x25	0	320
III-P17	20x40	0	320
III-P18	20x40	0	320
III-P19	20x40	-30	290
III-P20	25x25	0	320
III-P21	25x40	0	320
III-P22	25x25	0	320
III-P23	25x25	0	320
III-P24	25x25	0	320
III-P25	25x25	0	320
III-P26	25x25	0	320
III-P27	25x25	0	320
III-P28	25x25	0	320
III-P29	25x25	0	320
III-P30	25x25	0	320
III-P31	25x25	0	320
III-P32	25x25	0	320
III-P33	25x25	0	320
III-P34	25x25	0	320
III-P35	25x25	0	320
III-P36	25x25	0	320
III-P37	25x25	10	330
III-P38	25x25	10	330
III-P39	25x25	0	320
III-P40	25x25	0	320
III-P41	25x25	0	320
III-P42	25x25	0	320
III-P43	25x25	0	320
III-P44	25x25	0	320
III-P45	25x25	0	320
III-P46	25x25	0	320
III-P47	25x25	0	320
III-P48	25x25	0	320
III-P49	25x25	10	330
III-P50	25x45	10	330
III-P51	25x45	10	330
III-P52	25x25	0	320
III-P53	25x25	0	320
III-P54	25x25	0	320
III-P55	25x25	0	320
III-P56	25x25	0	320
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III-P58	25x25	0	320
III-P59	25x55	10	330
III-P60	25x55	10	330

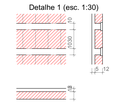
Legenda dos pilares

- Pilar que morre
- Pilar que passa

Legenda das vigas e paredes

- Viga

Detalhe 1 (esc. 1:30)



UENP

UNIVERSIDADE ESTADUAL DO NORTE DO PARANÁ

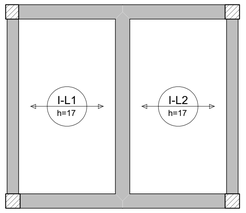
PROJETO	PROJETO ESTRUTURAL
OBRA	CENTRAL DE PÓS GRADUAÇÃO - CJ h=3,2m (SUPERIOR)
PROPRIETÁRIO	UNIVERSIDADE ESTADUAL DO NORTE DO PARANÁ - UENP. CNPJ: 08.895.100/0001-04
RESPONSÁVEL TÉCNICO	ENG. CIVIL MAICON HOCHSCHEIDT CREA PR-158718/D
DESENHO	Maicon Hochscheidt
DATA	24/09/2026
ESCALA	Indicada
PRANCHA	14 /34

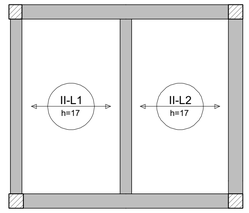
PROPAV

PRO-REITORIA DE PLANEJAMENTO E AVALIAÇÃO INSTITUCIONAL
SECRETARIA DE OBRAS

Assinatura Qualificada realizada por: **Ederson Marcos Sgarbi** em 18/09/2026 15:26. Assinatura Avançada realizada por: **Juliana Costa Rossitto (XXX.979.129-XX)** em 04/09/2026 08:11 Local: UENP/RTA/PROPAV/SECOBRAS, **Christopher Ramos Sfeir (XXX.945.859-XX)** em 04/09/2026 08:19 Local: UENP/RTA/PROPAV/SECOBRAS. Assinatura Simples realizada por: **Maicon Hochscheidt (XXX.348.319-XX)** em 04/09/2026 08:19 Local: UENP/RTA/PROPAV/SECOBRAS. Inserido ao protocolo **26.535.000-3** por: **Amanda Alves da Silva** em: 04/09/2026 08:08. Documento assinado nos termos do Art. 38 do Decreto Estadual nº 7304/2021. A autenticidade deste documento pode ser validada no endereço: **https://www.eprotocolo.pr.gov.br/spiweb/validarDocumento** com o código: **f62cfc10bd1be01526ef5404611550f5**

PROTOCOLO
Fls. 133
Mod. 6
INTERESSADO DO ESTADO





Relação do aço

Positivos X Positivos Y

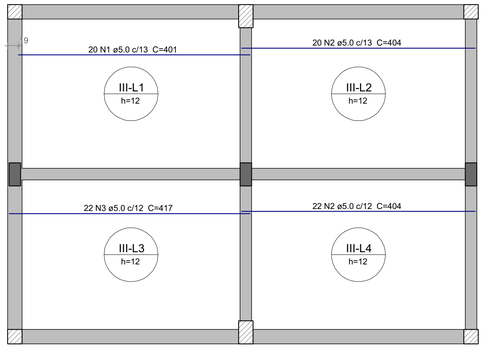
AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	20	401	8020
	2	5.0	42	404	16968
	3	5.0	22	417	9174
	4	5.0	52	282	14664
	5	5.0	54	298	16092

Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 10 % (Barras)	PESO + 10 % (kg)
CA60	5.0	649.2	-	110.1

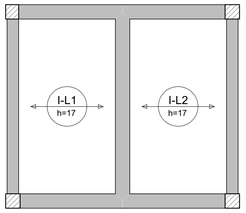
PESO TOTAL (kg)	
CA60	110.1

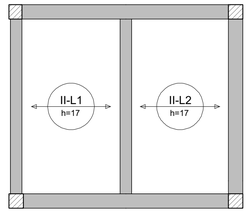
Volume de concreto (C-30) = 6.13 m³
Área de forma = 38.82 m²

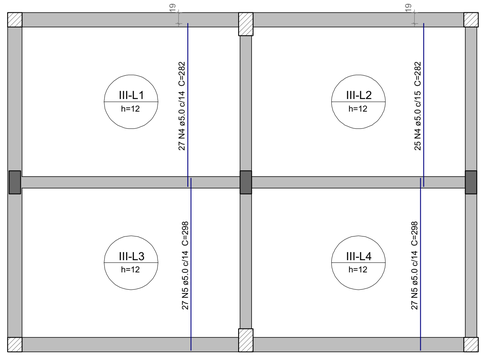


Armação positiva das lajes do pavimento h=3.2m (SUPERIOR) (Eixo X)

escala 1:50







Armação positiva das lajes do pavimento h=3.2m (SUPERIOR) (Eixo Y)

escala 1:50

Nº	REVISÕES	DATA	
0	Emissão inicial	05/08/2026	Maicon Hochscheidt

UENP
UNIVERSIDADE ESTADUAL DO NORTE DO PARANÁ

PROJETO: PROJETO ESTRUTURAL

OBRA: CENTRAL DE PÓS GRADUAÇÃO - CJ
h=3.2m
(SUPERIOR)

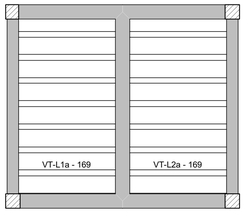
PROPRIETÁRIO: UNIVERSIDADE ESTADUAL DO NORTE DO PARANÁ - UENP
CNPJ: 08.885.100/0001-54

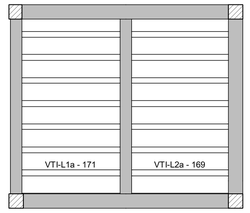
RESPONSÁVEL TÉCNICO: ENG. CIVIL MAICON HOCHSCHEIDT
CREA PR-189719/D

DESENHO	DATA	ESCALA	PRANCHA
Maicon Hochscheidt	24/08/2026 24/08/2026	Indicada	15 /34

PROPAV
PRÓ-REITORIA DE PLANEJAMENTO E AVALIAÇÃO INSTITUCIONAL
SECRETARIA DE OBRAS

Assinatura Qualificada realizada por: **Ederson Marcos Sgarbi** em 18/09/2026 15:26. Assinatura Avançada realizada por: **Juliana Costa Rossitto (XXX.979.129-XX)** em 04/09/2026 08:11 Local: UENP/RTA/PROPAV/SECOBRAS, **Christopher Ramos Sfeir (XXX.945.859-XX)** em 04/09/2026 08:19 Local: UENP/RTA/PROPAV/SECOBRAS. Assinatura Simples realizada por: **Maicon Hochscheidt (XXX.348.319-XX)** em 04/09/2026 08:19 Local: UENP/RTA/PROPAV/SECOBRAS. Inserido ao protocolo **26.535.000-3** por: **Amanda Alves da Silva** em: 04/09/2026 08:08. Documento assinado nos termos do Art. 38 do Decreto Estadual nº 7304/2021. A autenticidade deste documento pode ser validada no endereço: **https://www.eprotocolo.pr.gov.br/spiweb/validarDocumento** com o código: **f62cfc10bd1be01526ef54d641b5bf5**



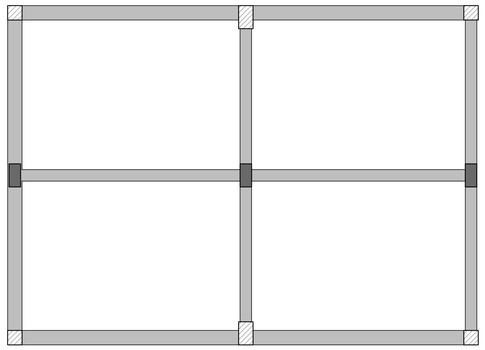


Relação do aço

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)

Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 10 % (Barras)	PESO + 10 % (kg)	PESO TOTAL (kg)



Planta de vigotas pré-moldadas

escala 1:50

Nº	REVISÕES	DATA	
0	Emissão inicial	05/08/2026	Maicon Hochscheidt

UENP
UNIVERSIDADE ESTADUAL DO NORTE DO PARANÁ

PROJETO: PROJETO ESTRUTURAL

OBRA: CENTRAL DE PÓS GRADUAÇÃO - CJ
h=3.2m
(SUPERIOR)

PROPRIETÁRIO: UNIVERSIDADE ESTADUAL DO NORTE DO PARANÁ - UENP
CNPJ: 08.885.100/0001-54

RESPONSÁVEL TÉCNICO: ENG. CIVIL MAICON HOCHSCHEIDT
CREA PR-189719/D

DESENHO	DATA	ESCALA	PRANCHA
Maicon Hochscheidt	24/08/2026 24/08/2026	Indicada	16 /34

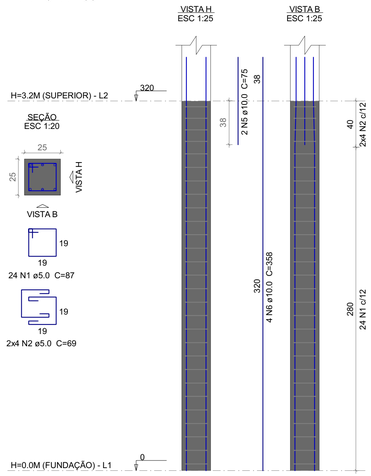
PROPAV
PRÓ-REITORIA DE PLANEJAMENTO E AVALIAÇÃO INSTITUCIONAL
SECRETARIA DE OBRAS

PROTOCOLO INTERNO DO ESTADO
Fls. 134
Mov. 6

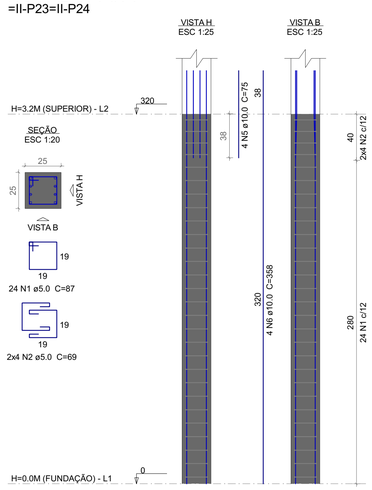
Assinatura Qualificada realizada por: **Ederson Marcos Sgarbi** em 18/09/2026 15:26. Assinatura Avançada realizada por: **Juliana Costa Rossitto (XXX.979.129-XX)** em 04/09/2026 08:11 Local: UENP/RTA/PROPAV/SECOBRAS, **Christopher Ramos Sfeir (XXX.945.859-XX)** em 04/09/2026 08:19 Local: UENP/RTA/PROPAV/SECOBRAS. Assinatura Simples realizada por: **Maicon Hochscheidt (XXX.348.319-XX)** em 04/09/2026 08:19 Local: UENP/RTA/PROPAV/SECOBRAS. Inserido ao protocolo **26.535.000-3** por: **Amanda Alves da Silva** em: 04/09/2026 08:08. Documento assinado nos termos do Art. 38 do Decreto Estadual nº 7304/2021. A autenticidade deste documento pode ser validada no endereço: **https://www.eprotocolo.pr.gov.br/spiweb/validarDocumento** com o código: **f62cfc10bd1be01526ef54d641b5bf5**

PROTOCOLO
Fls. 135
Mov. 6
INTERESSADO DO ESTADO

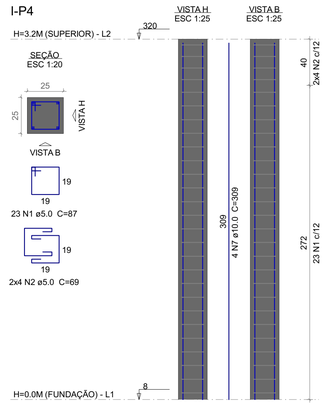
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=II-P3=III-P33=III-P42=
=III-P43=III-P58



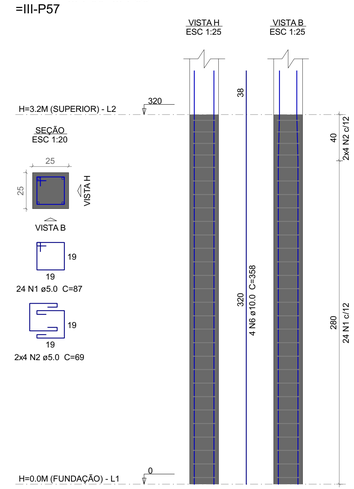
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=II-P23=II-P24



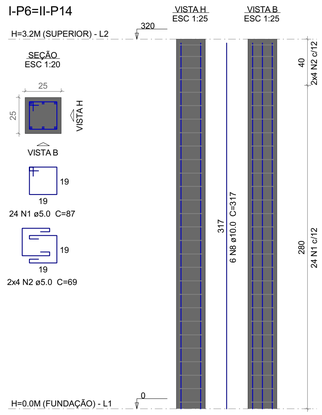
I-P4



I-P5=I-P14=II-P25=III-P2=
=III-P3=III-P4=III-P5=
=III-P9=III-P10=III-P11=
=III-P12=III-P13=III-P14=
=III-P15=III-P44=III-P45=
=III-P46=III-P47=III-P48=
=III-P49=III-P52=III-P53=
=III-P54=III-P55=III-P56=
=III-P57



I-P6=II-P14



Relação do aço

9xI-P1	6xI-P3	I-P4
26xI-P5	2xI-P6	27xI-P7
I-P8	6xI-P9	II-P18
II-P19	II-P21	II-P22
2xIII-P1		

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	1967	87	171129
	2	5.0	658	69	45402
	3	5.0	48	83	3984
	4	5.0	18	65	1170
CA50	5	10.0	78	75	5850
	6	10.0	210	358	75180
	7	10.0	4	309	1236
	8	10.0	126	317	39942
	9	10.0	4	327	1308
	10	10.0	4	368	1472
	11	12.5	12	94	1128

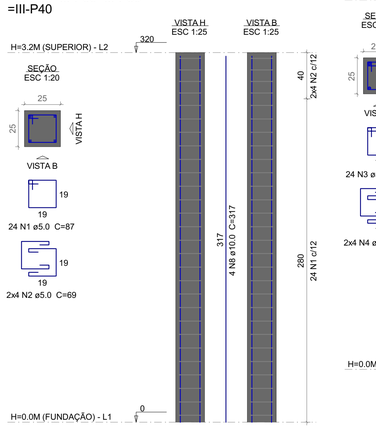
Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 10 % (Barras)	PESO + 10 % (kg)
CA50	10.0	1249.9	115	847.7
	12.5	11.3	2	12
CA60	5.0	2216.9	-	375.9

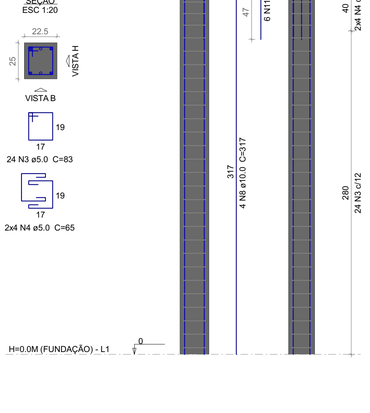
PESO TOTAL (kg)	
CA50	859.6
CA60	375.9

Volume de concreto (C-25) = 16.77 m³
Área de forma = 268.6 m²

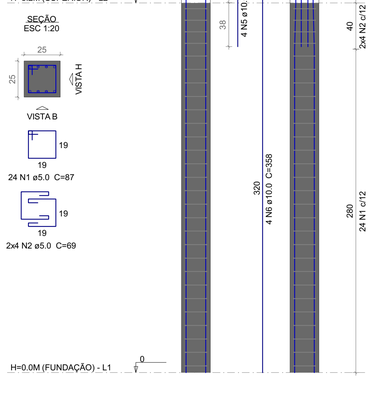
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=III-P29=III-P30=III-P31=
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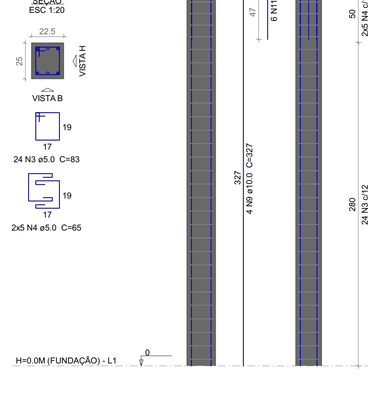
I-P8



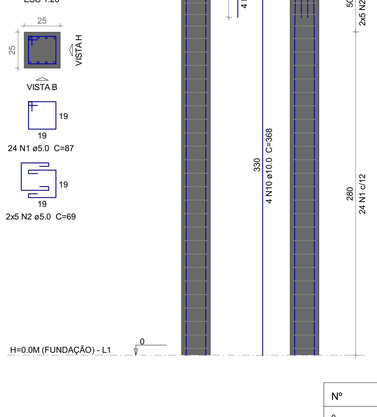
I-P9=I-P13=III-P20=
=III-P22=III-P23=III-P32



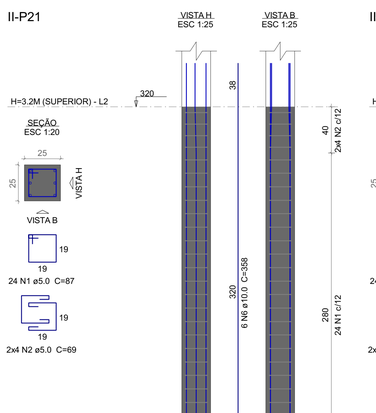
II-P18



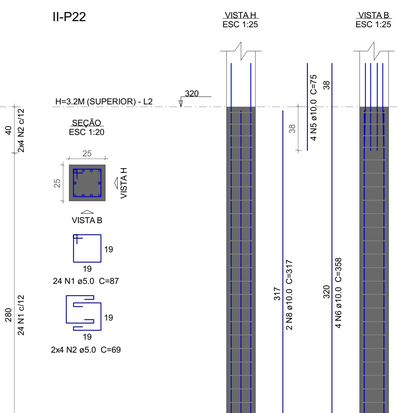
II-P19



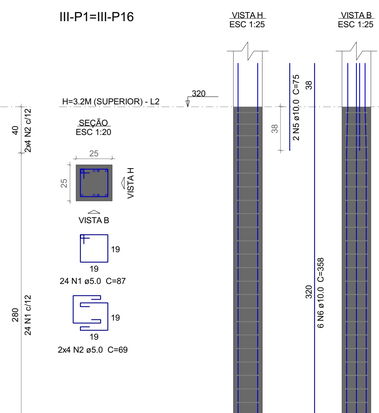
II-P21



II-P22



III-P1=III-P16



Nº	REVISÕES	DATA	
0	Emissão inicial	05/08/2026	Maicon Hochscheidt

UENP
UNIVERSIDADE ESTADUAL DO NORTE DO PARANÁ

PROJETO: PROJETO ESTRUTURAL
OBRA: CENTRAL DE PÓS GRADUAÇÃO - CJ
h=3.2m
(SUPERIOR)

PROPRIETÁRIO: UNIVERSIDADE ESTADUAL DO NORTE DO PARANÁ - UENP
CNPJ: 08.885.100/0001-54

RESPONSÁVEL TÉCNICO: ENG. CIVIL MAICON HOCHSCHEIDT
CREA PR-189719/D

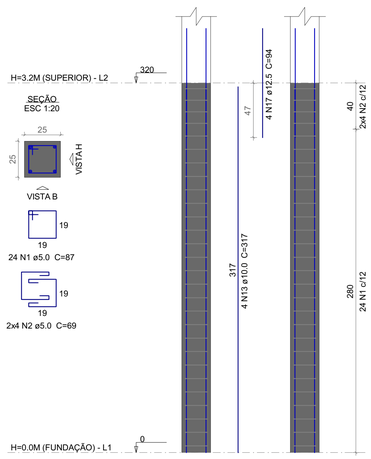
DESENHO	DATA	ESCALA	PRANCHA
Maicon Hochscheidt	24/08/2026 24/08/2026	Indicada	17 /34

PROPAV
PRÓ-REITORIA DE PLANEJAMENTO E AVALIAÇÃO INSTITUCIONAL
SECRETARIA DE OBRAS

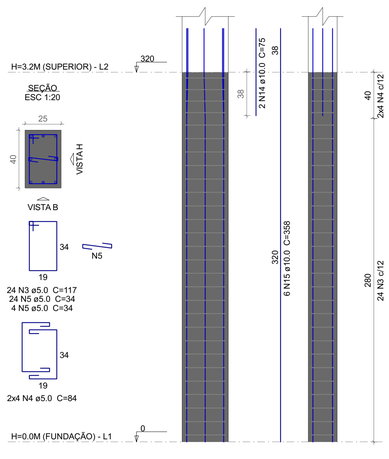
Assinatura Qualificada realizada por: **Ederson Marcos Sgarbi** em 18/09/2026 15:26. Assinatura Avançada realizada por: **Juliana Costa Rossitto (XXX.979.129-XX)** em 04/09/2026 08:11 Local: UENP/RTA/PROPAV/SECOBRAS, **Christopher Ramos Sfeir (XXX.945.859-XX)** em 04/09/2026 08:19 Local: UENP/RTA/PROPAV/SECOBRAS. Assinatura Simples realizada por: **Maicon Hochscheidt (XXX.348.319-XX)** em 04/09/2026 08:19 Local: UENP/RTA/PROPAV/SECOBRAS. Inserido ao protocolo **26.535.000-3** por: **Amanda Alves da Silva** em: 04/09/2026 08:08. Documento assinado nos termos do Art. 38 do Decreto Estadual nº 7304/2021. A autenticidade deste documento pode ser validada no endereço: **https://www.eprotocolo.pr.gov.br/spiweb/validarDocumento** com o código: **f62cfc10bd1be01526ef54d641b5bf5**

PROTOCOLO
Fls. 136
Mod. 6
UNIVERSIDADE DO NORTE DO PARANÁ

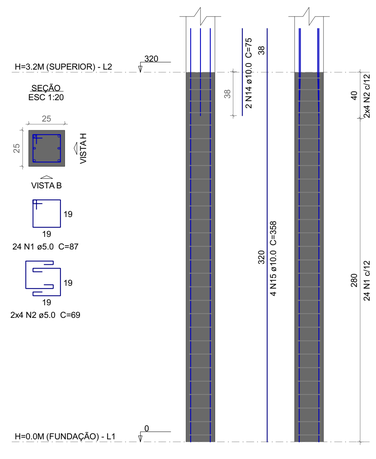
III-P6



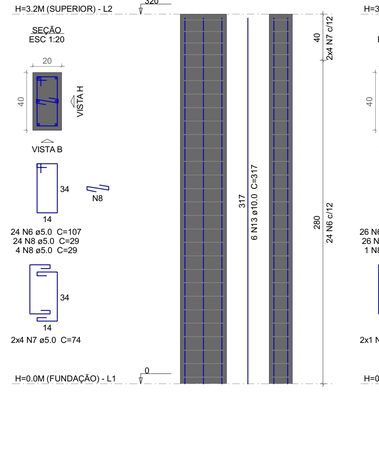
III-P7



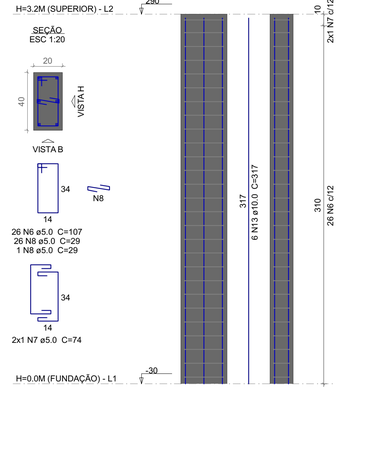
III-P8



III-P17=III-P18



III-P19



Relação do aço

III-P6	III-P7	III-P8
2xIII-P17	III-P19	III-P21
2xIII-P34	2xIII-P37	2xIII-P50
2xIII-P59		

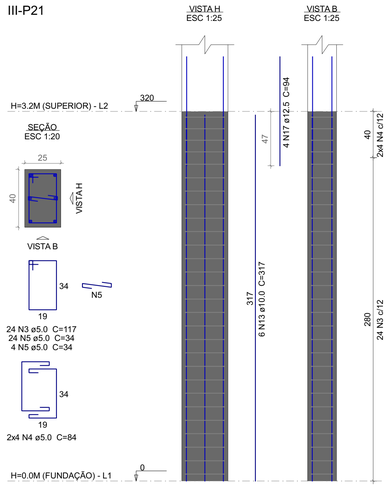
AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	144	87	12528
	2	5.0	52	69	3588
	3	5.0	48	117	5616
	4	5.0	16	84	1344
	5	5.0	230	34	7820
	6	5.0	74	107	7918
	7	5.0	18	74	1332
	8	5.0	83	29	2407
	9	5.0	48	127	6096
	10	5.0	20	89	1780
	11	5.0	48	147	7056
	12	5.0	20	99	1980
CA50	13	10.0	40	317	12680
	14	10.0	4	75	300
	15	10.0	10	358	3580
	16	10.0	36	327	11772
	17	12.5	8	94	752

Resumo do aço

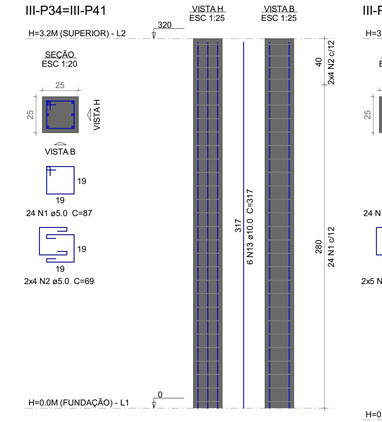
AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 10 % (Barras)	PESO + 10 % (kg)
CA50	10.0	283.4	26	192.1
	12.5	7.6	1	8
CA60	5.0	594.7	-	100.8
PESO TOTAL (kg)				
CA50	200.1			
CA60	100.8			

Volume de concreto (C-25) = 4.27 m³
Área de forma = 59.04 m²

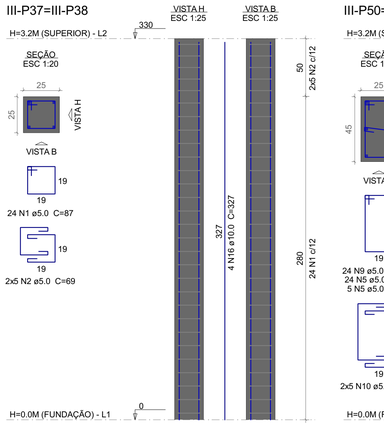
III-P21



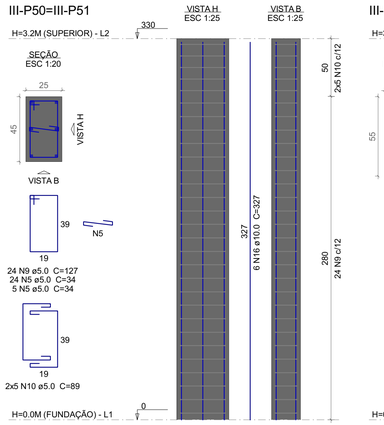
III-P34=III-P41



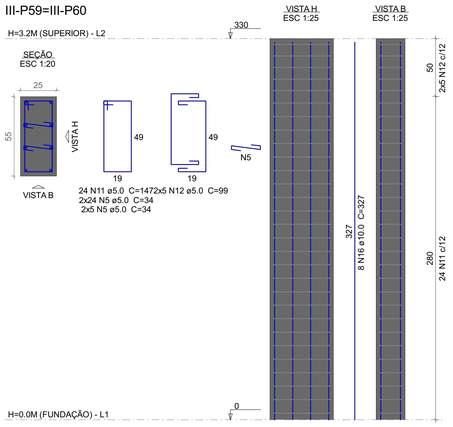
III-P37=III-P38



III-P50=III-P51



III-P59=III-P60



Nº	REVISÕES	DATA	
0	Emissão inicial	05/08/2026	Maicon Hochscheidt

UENP
UNIVERSIDADE ESTADUAL DO NORTE DO PARANÁ

PROJETO
PROJETO ESTRUTURAL

OBRA
CENTRAL DE PÓS GRADUAÇÃO - CJ
h=3.2m
(SUPERIOR)

PROPRIETÁRIO
UNIVERSIDADE ESTADUAL DO NORTE DO PARANÁ - UENP
CNPJ: 08.885.100/0001-54

RESPONSÁVEL TÉCNICO
ENG. CIVIL MAICON HOCHSCHEIDT
CREA PR-185719/D

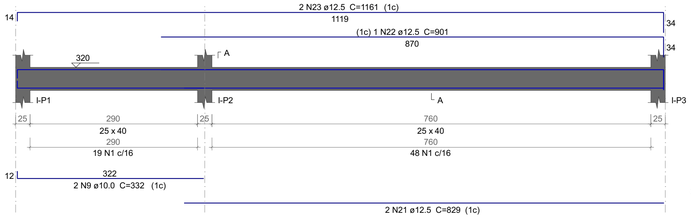
DESENHO	DATA	ESCALA	PRANCHA
Maicon Hochscheidt	24/08/2026 24/08/2026	Indicada	18 /34

PROPAV
PRÓ-REITORIA DE PLANEJAMENTO E AVALIAÇÃO INSTITUCIONAL
SECRETARIA DE OBRAS

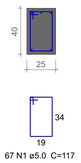
Assinatura Qualificada realizada por: **Ederson Marcos Sgarbi** em 18/09/2026 15:26. Assinatura Avançada realizada por: **Juliana Costa Rossitto (XXX.979.129-XX)** em 04/09/2026 08:11 Local: UENP/RTA/PROPAV/SECOBRAS, **Christopher Ramos Sfeir (XXX.945.859-XX)** em 04/09/2026 08:19 Local: UENP/RTA/PROPAV/SECOBRAS. Assinatura Simples realizada por: **Maicon Hochscheidt (XXX.348.319-XX)** em 04/09/2026 08:19 Local: UENP/RTA/PROPAV/SECOBRAS. Inserido ao protocolo **26.535.000-3** por: **Amanda Alves da Silva** em: 04/09/2026 08:08. Documento assinado nos termos do Art. 38 do Decreto Estadual nº 7304/2021. A autenticidade deste documento pode ser validada no endereço: **https://www.eprotocolo.pr.gov.br/spiweb/validarDocumento** com o código: **f62cfc10bd1be01526ef54d641b5bf5**

PROTOCOLO
Fls. 137
Mod. 6
DOCUMENTO DIGITALIZADO

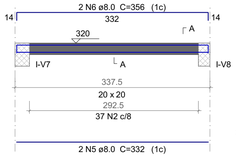
I-V1
ESC 1:50



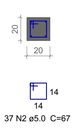
SEÇÃO A-A
ESC 1:25



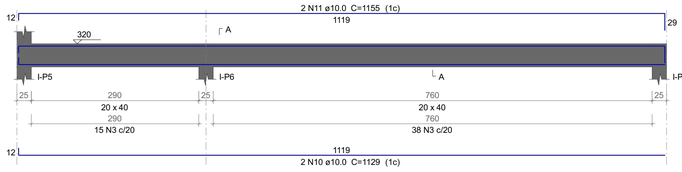
I-V2
ESC 1:50



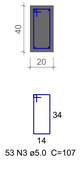
SEÇÃO A-A
ESC 1:25



I-V3
ESC 1:50



SEÇÃO A-A
ESC 1:25



Relação do aço

I-V1	I-V2	I-V3
I-V4	I-V5	I-V6
I-V7	I-V8	I-V9
I-V10	II-V1	II-V2

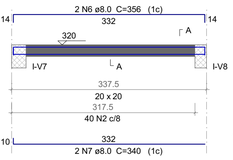
AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	471	117	55107
	2	5.0	77	67	5159
	3	5.0	130	107	13910
	4	5.0	118	137	16166
CA50	5	8.0	2	332	664
	6	8.0	4	356	1424
	7	8.0	2	340	680
	8	8.0	4	392	1568
	9	10.0	2	332	664
	10	10.0	2	1129	2258
	11	10.0	2	1155	2310
	12	10.0	4	735	2940
	13	10.0	4	757	3028
	14	10.0	2	1067	2134
	15	10.0	2	367	734
	16	10.0	4	1198	4792
	17	10.0	2	360	720
	18	10.0	2	1142	2284
	19	10.0	2	792	1584
	20	10.0	2	880	1760
	21	12.5	4	829	3316
	22	12.5	1	901	901
	23	12.5	2	1161	2322
	24	12.5	1	216	216
	25	12.5	2	399	798
	26	12.5	2	465	930
	27	12.5	1	180	180
	28	12.5	2	1143	2286
	29	12.5	2	1185	2370
	30	12.5	1	880	880
	31	12.5	2	1197	2394
	32	12.5	2	391	782
	33	12.5	1	443	443
	34	12.5	2	1197	2394
	35	12.5	2	343	686
	36	12.5	1	253	253
	37	12.5	2	371	742
	38	12.5	2	413	826
	39	12.5	2	1145	2290
	40	12.5	2	133	266
	41	12.5	1	530	530
	42	12.5	2	1197	2394
	43	12.5	2	888	1776

Resumo do aço

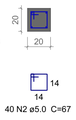
AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 10 % (Barras)	PESO + 10 % (kg)
CA50	8.0	43.4	4	18.8
	10.0	252.1	24	171
	12.5	299.8	28	317.6
CA60	5.0	903.5	-	153.2
PESO TOTAL (kg)				
CA50	507.4			
CA60	153.2			

Volume de concreto (C-25) = 11.68 m³
Área de forma = 123.66 m²

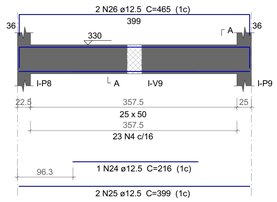
I-V4
ESC 1:50



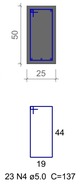
SEÇÃO A-A
ESC 1:25



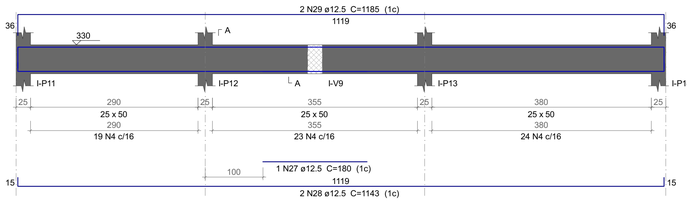
I-V5
ESC 1:50



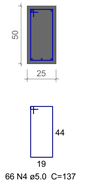
SEÇÃO A-A
ESC 1:25



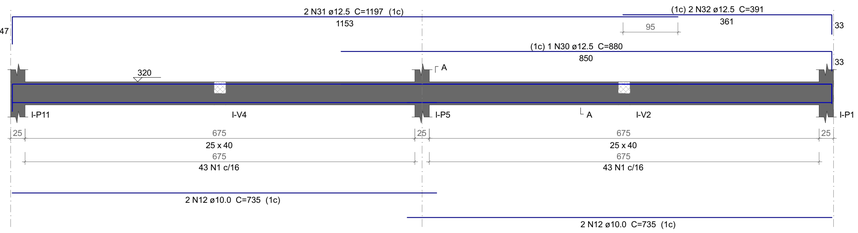
I-V6
ESC 1:50



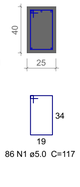
SEÇÃO A-A
ESC 1:25



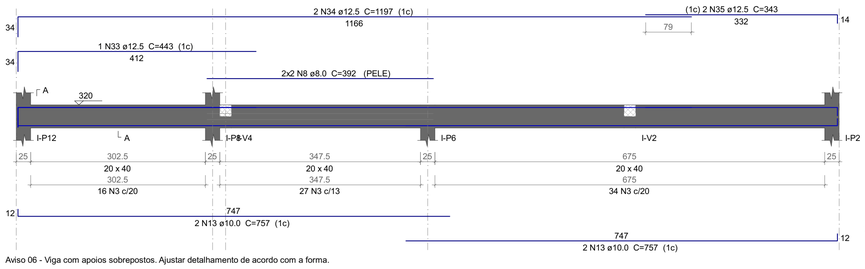
I-V7
ESC 1:50



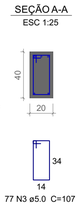
SEÇÃO A-A
ESC 1:25



I-V8
ESC 1:50

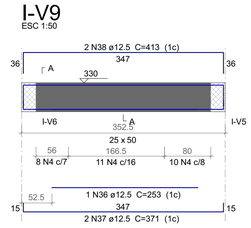


SEÇÃO A-A
ESC 1:25

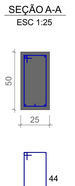


Aviso 06 - Viga com apoios sobrepostos. Ajustar detalhamento de acordo com a forma.

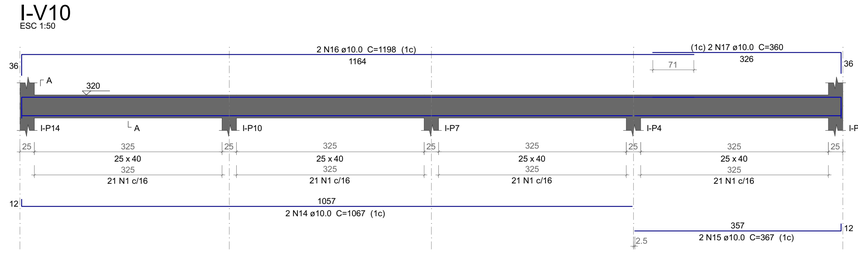
I-V9
ESC 1:50



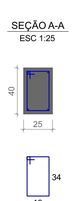
SEÇÃO A-A
ESC 1:25



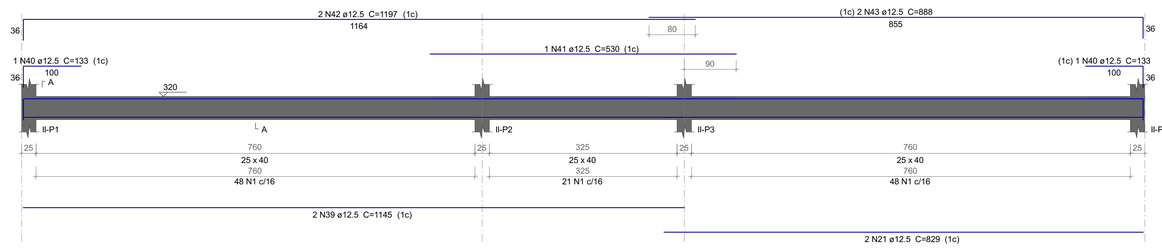
I-V10
ESC 1:50



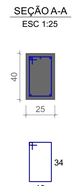
SEÇÃO A-A
ESC 1:25



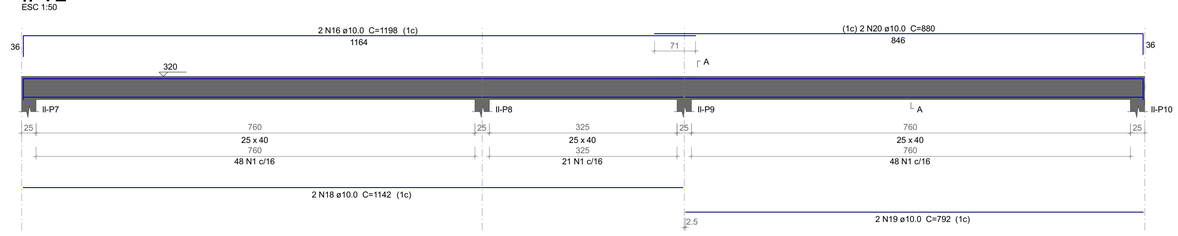
II-V1
ESC 1:50



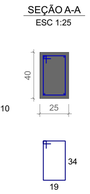
SEÇÃO A-A
ESC 1:25



II-V2
ESC 1:50



SEÇÃO A-A
ESC 1:25



Nº	REVISÕES	DATA	
0	Emissão inicial	05/08/2026	Maicon Hochscheidt

UENP
UNIVERSIDADE ESTADUAL DO NORTE DO PARANÁ

PROJETO: PROJETO ESTRUTURAL
OBRA: CENTRAL DE PÓS GRADUAÇÃO - CJ
h=3.2m
(SUPERIOR)

PROPRIETÁRIO: UNIVERSIDADE ESTADUAL DO NORTE DO PARANÁ - UENP
CNPJ: 08.885.100/0001-54

RESPONSÁVEL TÉCNICO: ENG. CIVIL MAICON HOCHSCHEIDT
CREA PR-189719/D

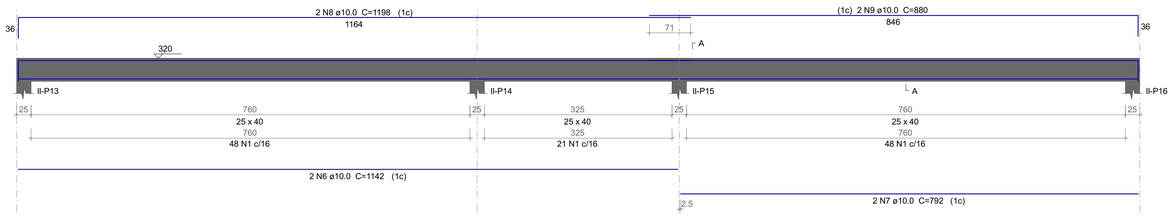
DESENHO	DATA	ESCALA	PRANCHA
Maicon Hochscheidt	24/08/2026 24/08/2026	Indicada	19 /34

PROPAV
PRÓ-REITORIA DE PLANEJAMENTO E AVALIAÇÃO INSTITUCIONAL
SECRETARIA DE OBRAS

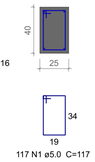
Assinatura Qualificada realizada por: **Ederson Marcos Sgarbi** em 18/09/2026 15:26. Assinatura Avançada realizada por: **Juliana Costa Rossitto (XXX.979.129-XX)** em 04/09/2026 08:11 Local: UENP/RTA/PROPAV/SECOBRAS, **Christopher Ramos Sfeir (XXX.945.859-XX)** em 04/09/2026 08:19 Local: UENP/RTA/PROPAV/SECOBRAS. Assinatura Simples realizada por: **Maicon Hochscheidt (XXX.348.319-XX)** em 04/09/2026 08:19 Local: UENP/RTA/PROPAV/SECOBRAS. Inserido ao protocolo **26.535.000-3** por: **Amanda Alves da Silva** em: 04/09/2026 08:08. Documento assinado nos termos do Art. 38 do Decreto Estadual nº 7304/2021. A autenticidade deste documento pode ser validada no endereço: **https://www.eprotocolo.pr.gov.br/spiweb/validarDocumento** com o código: **f62cfc10bd1be01526ef54d641b5bf5**

PROTOCOLO
Fls. 138
Mod. 6
INTERESSADO DO ESTADO

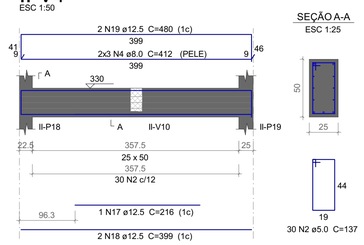
II-V3
ESC 1:50



SEÇÃO A-A
ESC 1:25



II-V4
ESC 1:50



SEÇÃO A-A
ESC 1:25

Relação do aço

II-V3	II-V4	II-V5
II-V6	II-V7	II-V8
II-V9	II-V10	II-V11

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	462	117	54054
	2	5.0	153	137	20961
	3	5.0	51	107	5457
CA50	4	8.0	6	412	2472
	5	8.0	6	399	2394
	6	10.0	2	1142	2284
	7	10.0	2	792	1584
	8	10.0	6	1198	7188
	9	10.0	2	880	1760
	10	10.0	2	1067	2134
	11	10.0	2	987	1974
	12	10.0	2	980	1960
	13	10.0	2	735	1470
	14	10.0	2	637	1274
	15	10.0	2	284	568
	16	10.0	2	400	800
	17	12.5	1	216	216
	18	12.5	2	399	798
	19	12.5	2	480	960
	20	12.5	2	1145	2290
	21	12.5	1	180	180
	22	12.5	2	841	1682
	23	12.5	1	940	940
	24	12.5	2	1197	2394
	25	12.5	2	903	1806
	26	12.5	2	710	1420
	27	12.5	2	700	1400
	28	12.5	2	642	1284
	29	12.5	1	155	155
	30	12.5	2	1197	2394
	31	12.5	2	964	1928
	32	12.5	2	731	1462
	33	12.5	1	185	185
	34	12.5	2	783	1566
	35	12.5	1	273	273
	36	12.5	4	371	1484
	37	12.5	1	189	189
	38	12.5	1	184	184
	39	12.5	2	415	830

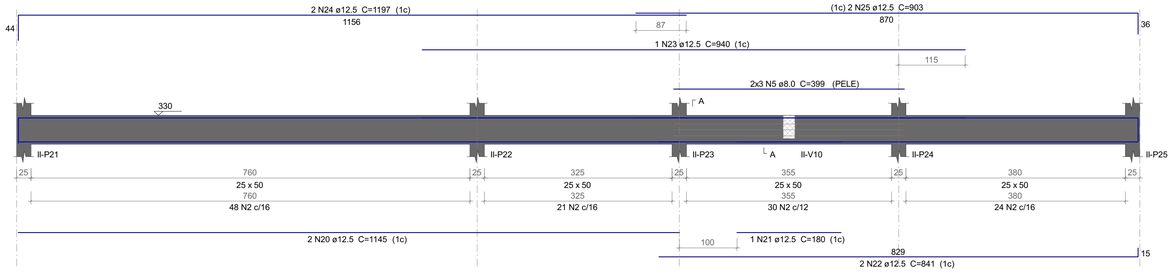
Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 10 % (Barras)	PESO + 10 % (kg)
CA50	8.0	48.7	5	21.1
	10.0	230	22	156
	12.5	260.2	24	275.7
CA60	5.0	804.8	-	136.4

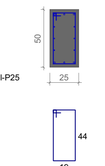
PESO TOTAL (kg)	
CA50	452.8
CA60	136.4

Volume de concreto (C-25) = 10.74 m³
Área de forma = 109.58 m²

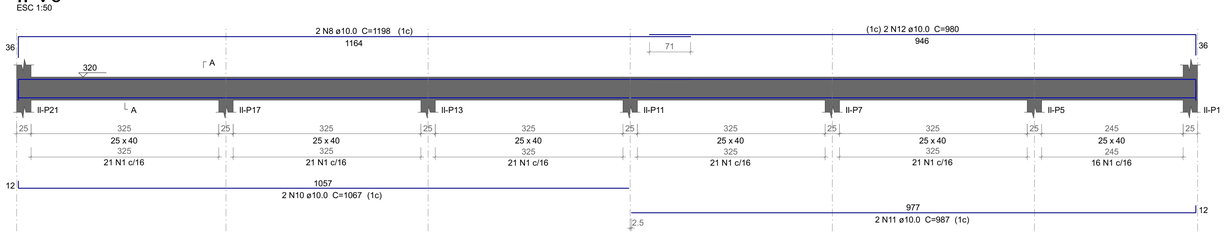
II-V5
ESC 1:50



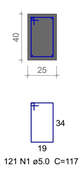
SEÇÃO A-A
ESC 1:25



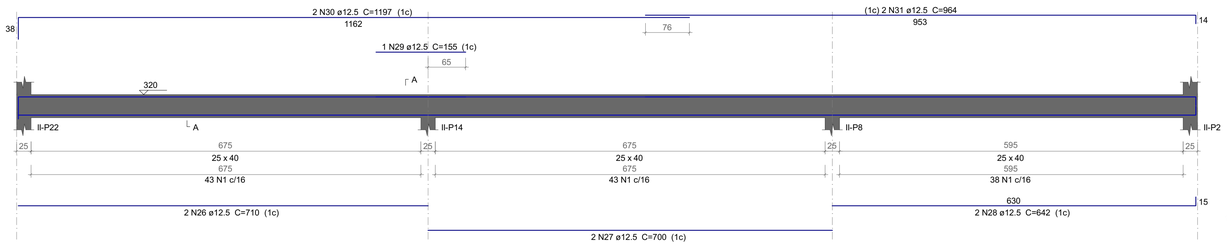
II-V6
ESC 1:50



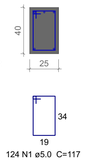
SEÇÃO A-A
ESC 1:25



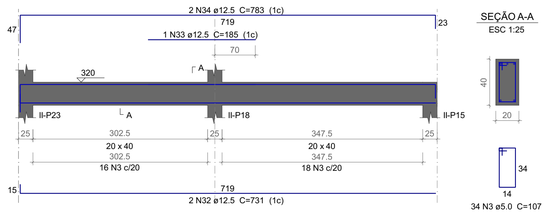
II-V7
ESC 1:50



SEÇÃO A-A
ESC 1:25

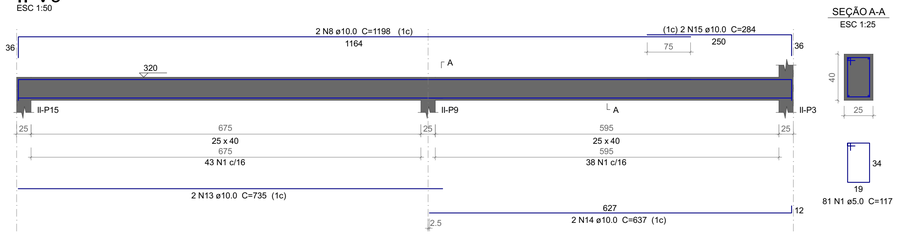


II-V8
ESC 1:50



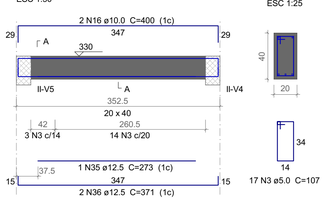
SEÇÃO A-A
ESC 1:25

II-V9
ESC 1:50



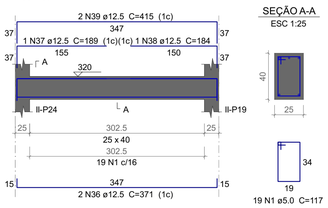
SEÇÃO A-A
ESC 1:25

II-V10
ESC 1:50



SEÇÃO A-A
ESC 1:25

II-V11
ESC 1:50



SEÇÃO A-A
ESC 1:25

Nº	REVISÕES	DATA	
0	Emissão inicial	05/08/2026	Maicon Hochscheidt

UENP
UNIVERSIDADE ESTADUAL DO NORTE DO PARANÁ

PROJETO
PROJETO ESTRUTURAL

OBRA
CENTRAL DE PÓS GRADUAÇÃO - CJ
h=3.2m
(SUPERIOR)

PROPRIETÁRIO
UNIVERSIDADE ESTADUAL DO NORTE DO PARANÁ - UENP
CNPJ: 08.885.100/0001-54

RESPONSÁVEL TÉCNICO
ENG. CIVIL MAICON HOCHSCHEIDT
CREA PR-189719/D

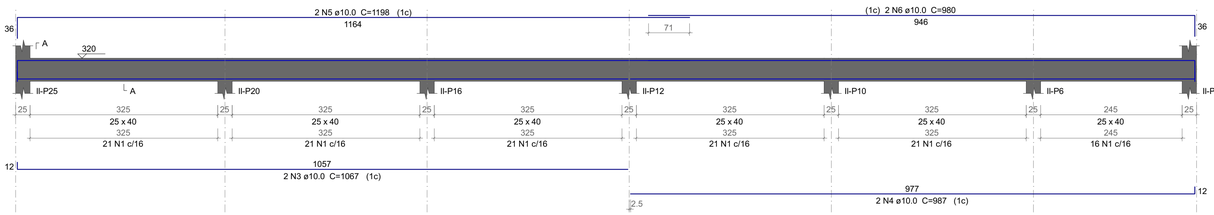
DESENHO	DATA	ESCALA	PRANCHA
Maicon Hochscheidt	24/08/2026 24/08/2026	Indicada	20 /34

PROPAV
PRÓ-REITORIA DE PLANEJAMENTO E AVALIAÇÃO INSTITUCIONAL
SECRETARIA DE OBRAS

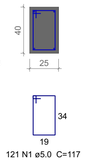
Assinatura Qualificada realizada por: **Ederson Marcos Sgarbi** em 18/09/2026 15:26. Assinatura Avançada realizada por: **Juliana Costa Rossitto (XXX.979.129-XX)** em 04/09/2026 08:11 Local: UENP/RTA/PROPAV/SECOBRAS, **Christopher Ramos Sfeir (XXX.945.859-XX)** em 04/09/2026 08:19 Local: UENP/RTA/PROPAV/SECOBRAS. Assinatura Simples realizada por: **Maicon Hochscheidt (XXX.348.319-XX)** em 04/09/2026 08:19 Local: UENP/RTA/PROPAV/SECOBRAS. Inserido ao protocolo **26.535.000-3** por: **Amanda Alves da Silva** em: 04/09/2026 08:08. Documento assinado nos termos do Art. 38 do Decreto Estadual nº 7304/2021. A autenticidade deste documento pode ser validada no endereço: **https://www.eprotocolo.pr.gov.br/spiweb/validarDocumento** com o código: **f62cfc10bd1be01526ef54d641b5bf5**

PROTOCOLO 26.535.000-3 Fls. 139 Mod. 6 GOVERNO DO ESTADO

II-V12
ESC 1:50

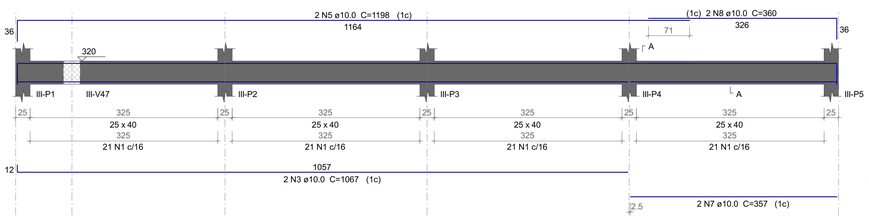


SEÇÃO A-A
ESC 1:25

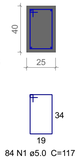


121 N1 ø5.0 C=117

III-V1
ESC 1:50

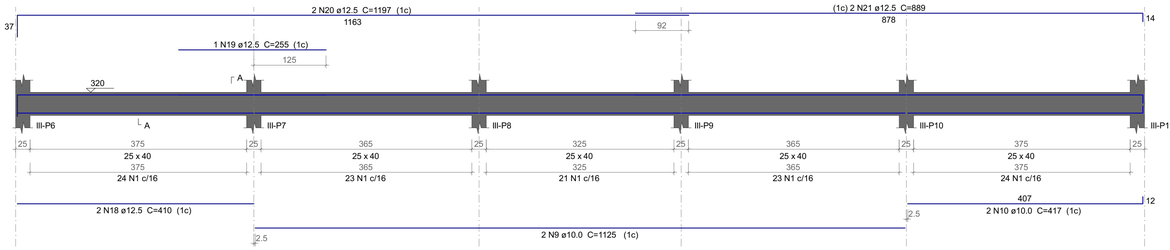


SEÇÃO A-A
ESC 1:25

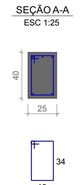


84 N1 ø5.0 C=117

III-V2
ESC 1:50

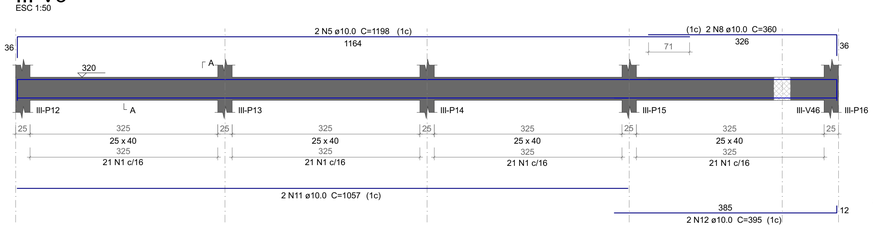


SEÇÃO A-A
ESC 1:25

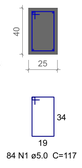


115 N1 ø5.0 C=117

III-V3
ESC 1:50

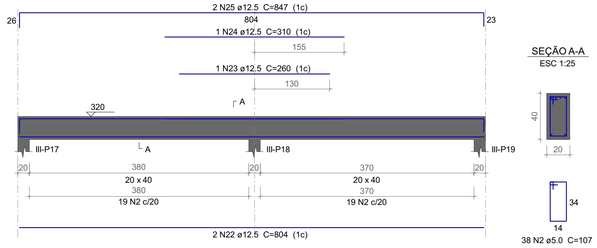


SEÇÃO A-A
ESC 1:25



84 N1 ø5.0 C=117

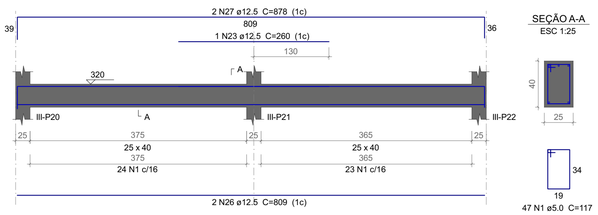
III-V4
ESC 1:50



SEÇÃO A-A
ESC 1:25

38 N2 ø5.0 C=107

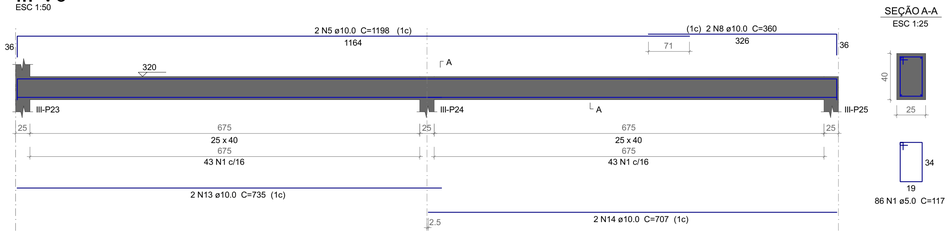
III-V5
ESC 1:50



SEÇÃO A-A
ESC 1:25

47 N1 ø5.0 C=117

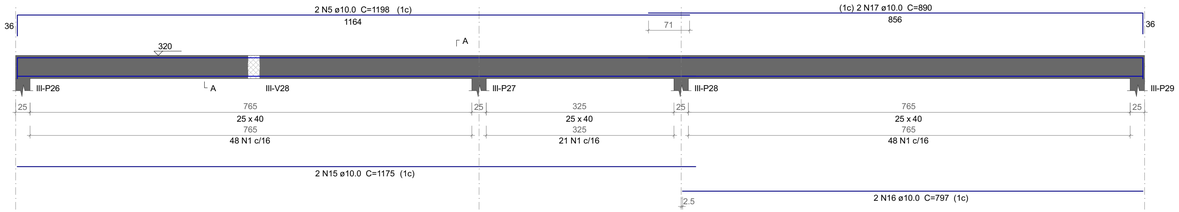
III-V6
ESC 1:50



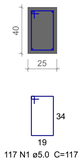
SEÇÃO A-A
ESC 1:25

86 N1 ø5.0 C=117

III-V7
ESC 1:50



SEÇÃO A-A
ESC 1:25



117 N1 ø5.0 C=117

Relação do aço

II-V12 III-V1 III-V2
III-V3 III-V4 III-V5
III-V6 III-V7

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	654	117	76518
	2	5.0	38	107	4066
CA50	3	10.0	4	1067	4268
	4	10.0	2	987	1974
	5	10.0	10	1198	11980
	6	10.0	2	980	1960
	7	10.0	2	357	714
	8	10.0	6	360	2160
	9	10.0	2	1125	2250
	10	10.0	2	417	834
	11	10.0	2	1057	2114
	12	10.0	2	395	790
	13	10.0	2	735	1470
	14	10.0	2	707	1414
	15	10.0	2	1175	2350
	16	10.0	2	797	1594
	17	10.0	2	890	1780
	18	12.5	2	410	820
	19	12.5	1	255	255
	20	12.5	2	1197	2394
	21	12.5	2	889	1778
	22	12.5	2	804	1608
	23	12.5	2	260	520
	24	12.5	1	310	310
	25	12.5	2	847	1694
	26	12.5	2	809	1618
	27	12.5	2	878	1756

Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 10 % (Barras)	PESO + 10 % (kg)
CA50	10.0	376.6	35	255.4
	12.5	127.6	12	135.1
CA60	5.0	805.9	-	136.6

PESO TOTAL (kg)	
CA50	390.5
CA60	136.6

Volume de concreto (C-25) = 10.83 m³
Área de forma = 111.31 m²

Nº	REVISÕES	DATA	
0	Emissão inicial	05/08/2026	Maicon Hochscheidt

UENP
UNIVERSIDADE ESTADUAL DO NORTE DO PARANÁ

PROJETO
PROJETO ESTRUTURAL

OBRA
CENTRAL DE PÓS GRADUAÇÃO - CJ
h=3.2m
(SUPERIOR)

PROPRIETÁRIO
UNIVERSIDADE ESTADUAL DO NORTE DO PARANÁ - UENP
CNPJ: 08.885.100/0001-54

RESPONSÁVEL TÉCNICO
ENG. CIVIL MAICON HOCHSCHEIDT
CREA PR-189719/D

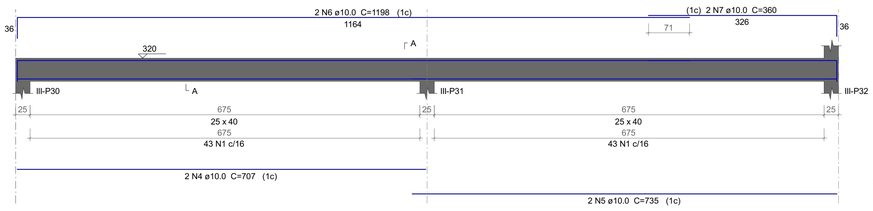
DESENHO: Maicon Hochscheidt
DATA: 24/08/2026 24/08/2026
ESCALA: Indicada
PRANCHA: 21 /34

PROPAV
PRÓ-REITORIA DE PLANEJAMENTO E AVALIAÇÃO INSTITUCIONAL
SECRETARIA DE OBRAS

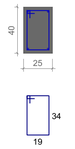
Assinatura Qualificada realizada por: **Ederson Marcos Sgarbi** em 18/09/2026 15:26. Assinatura Avançada realizada por: **Juliana Costa Rossitto (XXX.979.129-XX)** em 04/09/2026 08:11 Local: UENP/RTA/PROPAV/SECOBRAS, **Christopher Ramos Sfeir (XXX.945.859-XX)** em 04/09/2026 08:19 Local: UENP/RTA/PROPAV/SECOBRAS. Assinatura Simples realizada por: **Maicon Hochscheidt (XXX.348.319-XX)** em 04/09/2026 08:19 Local: UENP/RTA/PROPAV/SECOBRAS. Inserido ao protocolo **26.535.000-3** por: **Amanda Alves da Silva** em: 04/09/2026 08:08. Documento assinado nos termos do Art. 38 do Decreto Estadual nº 7304/2021. A autenticidade deste documento pode ser validada no endereço: **https://www.eprotocolo.pr.gov.br/spiweb/validarDocumento** com o código: **f62cfc10bd1be01526ef54d641b5bf5**

PROTOCOLO
Fls. 140
Mod. 6
INTERESSADO DO ESTADO

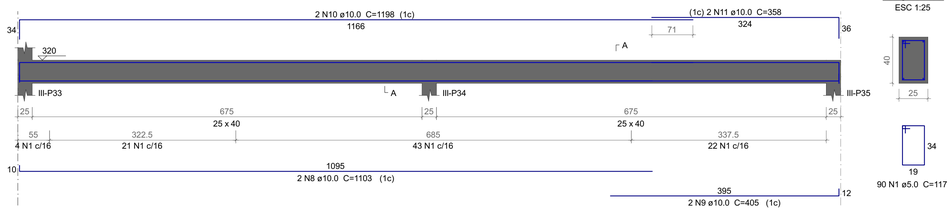
III-V8
ESC 1:50



SEÇÃO A-A
ESC 1:25



III-V9
ESC 1:50



SEÇÃO A-A
ESC 1:25

Relação do aço

III-V8	III-V9	III-V10
III-V11	III-V12	III-V13
III-V14	III-V15	III-V16
III-V17	III-V18	

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	767	117	89739
	2	5.0	65	137	8905
	3	5.0	14	87	1218
CA50	4	10.0	2	707	1414
	5	10.0	2	735	1470
	6	10.0	12	1198	14376
	7	10.0	6	360	2160
	8	10.0	2	1103	2206
	9	10.0	2	405	810
	10	10.0	2	1198	2396
	11	10.0	2	358	716
	12	10.0	2	1197	2394
	13	10.0	2	847	1694
	14	10.0	4	890	3560
	15	10.0	2	1090	2180
	16	10.0	2	418	836
	17	10.0	2	358	716
	18	10.0	2	1067	2134
	19	10.0	4	357	1428
	20	10.0	2	1147	2294
	21	10.0	2	797	1594
	22	10.0	2	1057	2114
	23	10.0	2	897	1794
	24	10.0	4	77	308
	25	10.0	4	102	408
	26	12.5	2	1149	2298
	27	12.5	2	1062	2124
	28	12.5	2	224	448
	29	12.5	2	829	1658
	30	12.5	1	160	160
	31	12.5	1	137	137
	32	12.5	2	1197	2394
	33	12.5	2	654	1308

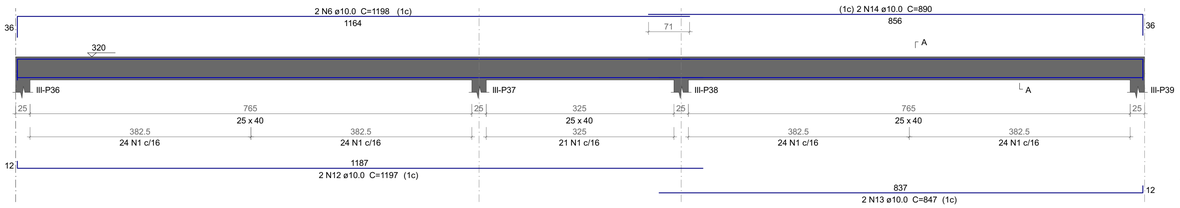
Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 10 % (Barras)	PESO + 10 % (kg)
CA50	10.0	490.1	45	332.3
	12.5	105.3	10	111.6
CA60	5.0	998.7	-	169.3

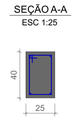
PESO TOTAL (kg)	
CA50	443.9
CA60	169.3

Volume de concreto (C-25) = 13.28 m³
Área de forma = 138.87 m²

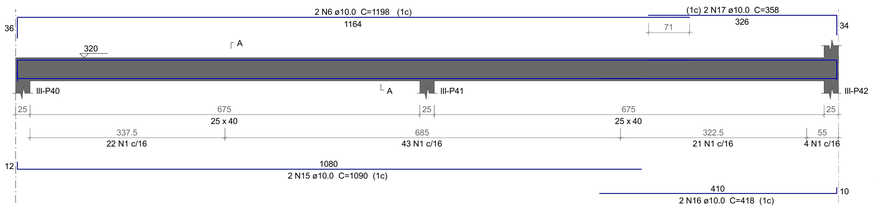
III-V10
ESC 1:50



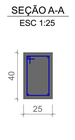
SEÇÃO A-A
ESC 1:25



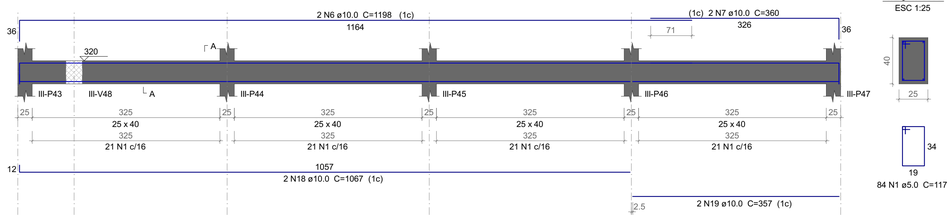
III-V11
ESC 1:50



SEÇÃO A-A
ESC 1:25

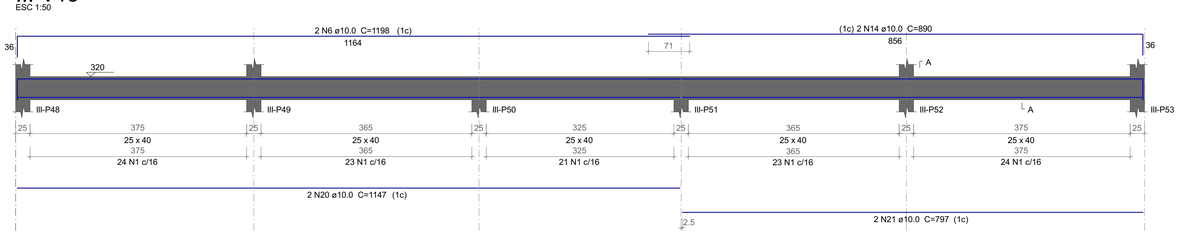


III-V12
ESC 1:50

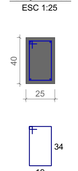


SEÇÃO A-A
ESC 1:25

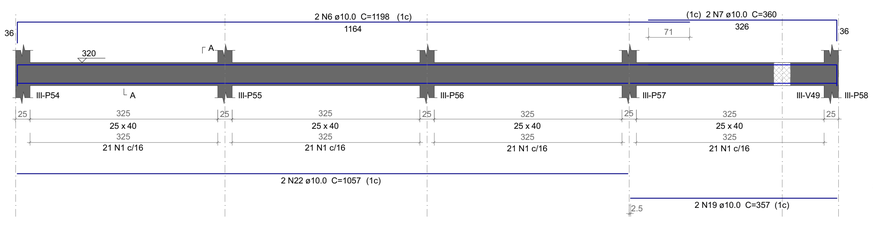
III-V13
ESC 1:50



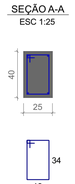
SEÇÃO A-A
ESC 1:25



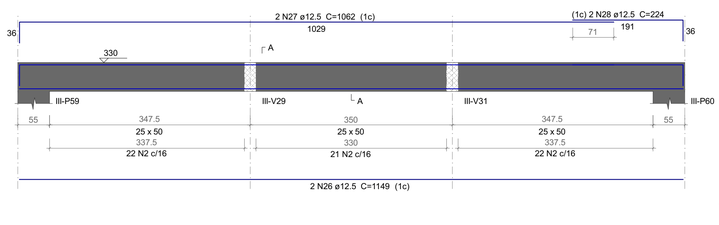
III-V14
ESC 1:50



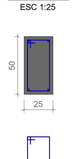
SEÇÃO A-A
ESC 1:25



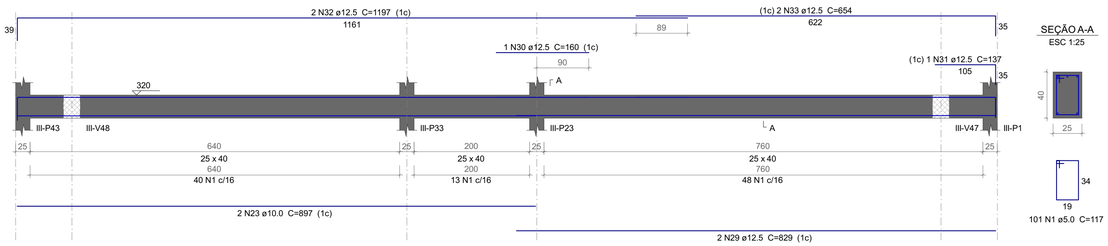
III-V15
ESC 1:50



SEÇÃO A-A
ESC 1:25

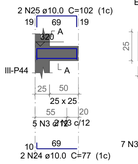


III-V16
ESC 1:50

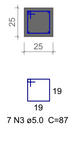


SEÇÃO A-A
ESC 1:25

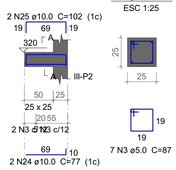
III-V17
ESC 1:50



SEÇÃO A-A
ESC 1:25



III-V18
ESC 1:50



SEÇÃO A-A
ESC 1:25

Nº	REVISÕES	DATA	
0	Emissão inicial	05/08/2026	Maicon Hochscheidt

UENP
UNIVERSIDADE ESTADUAL DO NORTE DO PARANÁ

PROJETO: PROJETO ESTRUTURAL

OBRA: CENTRAL DE PÓS GRADUAÇÃO - CJ
h=3.2m
(SUPERIOR)

PROPRIETÁRIO: UNIVERSIDADE ESTADUAL DO NORTE DO PARANÁ - UENP
CNPJ. 08.885.100/0001-54

RESPONSÁVEL TÉCNICO: ENG. CIVIL MAICON HOCHSCHEIDT
CREA PR-185719/D

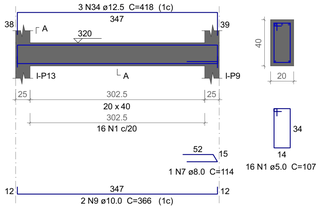
DESENHO: Maicon Hochscheidt
DATA: 24/08/2026 24/08/2026
ESCALA: Indicada
PRANCHA: 22 /34

PROPAV
PRÓ-REITORIA DE PLANEJAMENTO E AVALIAÇÃO INSTITUCIONAL
SECRETARIA DE OBRAS

Assinatura Qualificada realizada por: **Ederson Marcos Sgarbi** em 18/09/2026 15:26. Assinatura Avançada realizada por: **Juliana Costa Rossitto (XXX.979.129-XX)** em 04/09/2026 08:11 Local: UENP/RTA/PROPAV/SECOBRAS, **Christopher Ramos Sfeir (XXX.945.859-XX)** em 04/09/2026 08:19 Local: UENP/RTA/PROPAV/SECOBRAS. Assinatura Simples realizada por: **Maicon Hochscheidt (XXX.348.319-XX)** em 04/09/2026 08:19 Local: UENP/RTA/PROPAV/SECOBRAS. Inserido ao protocolo **26.535.000-3** por: **Amanda Alves da Silva** em: 04/09/2026 08:08. Documento assinado nos termos do Art. 38 do Decreto Estadual nº 7304/2021. A autenticidade deste documento pode ser validada no endereço: **https://www.eprotocolo.pr.gov.br/spiweb/validarDocumento** com o código: **f62cfc10bd1be01526ef54d641b5bf5**

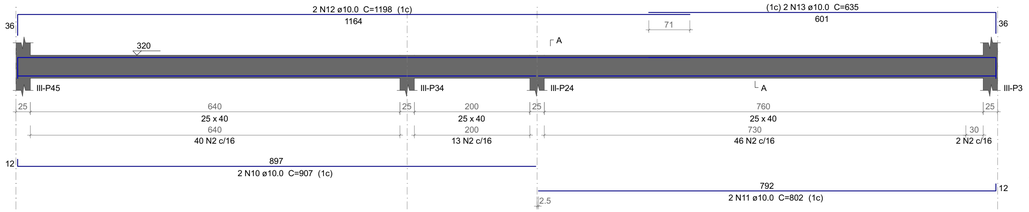
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III-V19
ESC 1:50

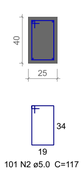


SEÇÃO A-A
ESC 1:25

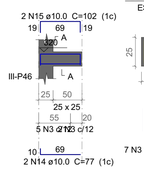
III-V20
ESC 1:50



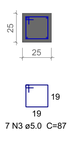
SEÇÃO A-A
ESC 1:25



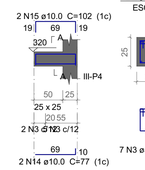
III-V21
ESC 1:50



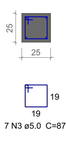
SEÇÃO A-A
ESC 1:25



III-V22
ESC 1:50



SEÇÃO A-A
ESC 1:25



Relação do aço

III-V19	III-V20	III-V21
III-V22	III-V23	III-V24
III-V25	III-V26	III-V28
III-V29	III-V30	III-V31
III-V32	III-V33	III-V34
III-V35	III-V36	

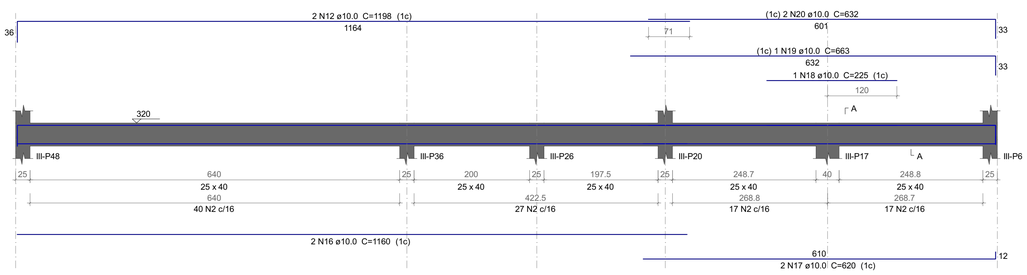
AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	153	107	16371
	2	5.0	343	117	40131
	3	5.0	28	87	2436
	4	5.0	10	137	1370
	5	5.0	88	127	11176
	6	5.0	6	87	522
CA50	7	8.0	1	114	114
	8	8.0	2	103	206
	9	10.0	2	366	732
	10	10.0	4	907	3628
	11	10.0	2	802	1604
	12	10.0	6	1198	7188
	13	10.0	4	635	2540
	14	10.0	10	77	770
	15	10.0	6	102	612
	16	10.0	2	1160	2320
	17	10.0	2	620	1240
	18	10.0	1	225	225
	19	10.0	1	663	663
	20	10.0	2	632	1264
	21	10.0	2	792	1584
	22	10.0	2	814	1628
	23	10.0	4	881	3524
	24	10.0	2	1039	2078
	25	10.0	1	642	642
	26	10.0	2	1065	2130
	27	10.0	2	1037	2074
	28	10.0	2	1087	2174
	29	10.0	2	218	436
	30	10.0	2	266	532
	31	10.0	2	112	224
	32	10.0	2	694	1388
	33	10.0	2	751	1502
	34	12.5	3	418	1254
	35	12.5	2	223	446
	36	12.5	2	265	530
	37	12.5	1	225	225
	38	12.5	1	178	178
	39	12.5	2	846	1692
	40	12.5	1	185	185
	41	12.5	4	931	3724

Resumo do aço

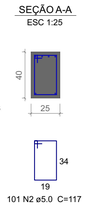
AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 10 % (Barras)	PESO + 10 % (kg)
CA50	8.0	3.2	1	1.4
	10.0	427.1	40	289.6
	12.5	82.4	8	87.3
CA60	5.0	720.1	-	122.1
PESO TOTAL (kg)				
CA50	378.2			
CA60	122.1			

Volume de concreto (C-25) = 9.79 m³
Área de forma = 107.28 m²

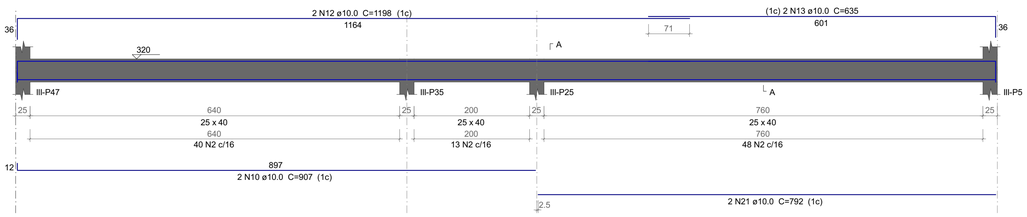
III-V23
ESC 1:50



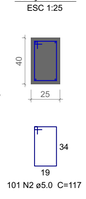
SEÇÃO A-A
ESC 1:25



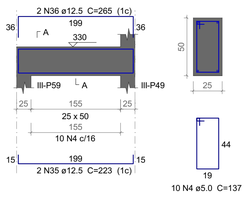
III-V24
ESC 1:50



SEÇÃO A-A
ESC 1:25

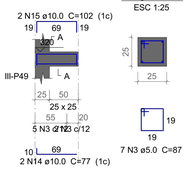


III-V25
ESC 1:50



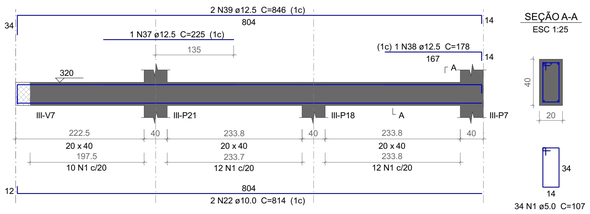
SEÇÃO A-A
ESC 1:25

III-V26
ESC 1:50



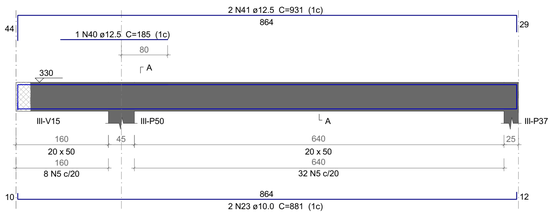
SEÇÃO A-A
ESC 1:25

III-V28
ESC 1:50

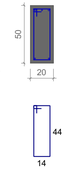


SEÇÃO A-A
ESC 1:25

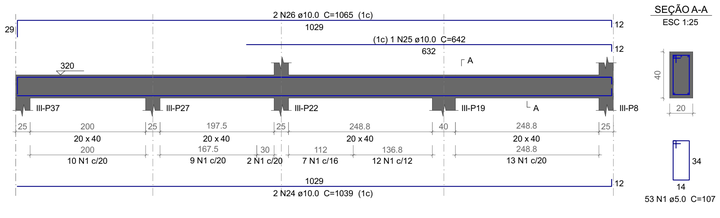
III-V29
ESC 1:50



SEÇÃO A-A
ESC 1:25

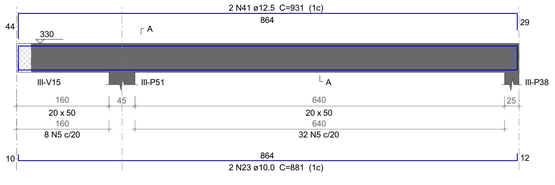


III-V30
ESC 1:50

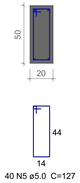


SEÇÃO A-A
ESC 1:25

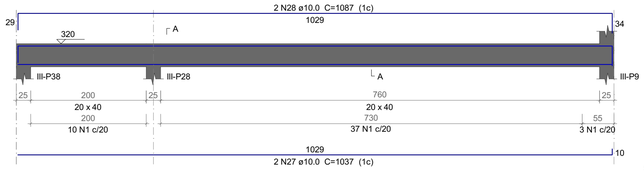
III-V31
ESC 1:50



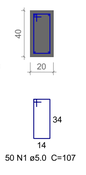
SEÇÃO A-A
ESC 1:25



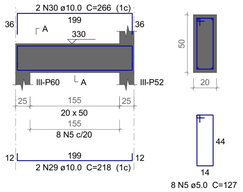
III-V32
ESC 1:50



SEÇÃO A-A
ESC 1:25

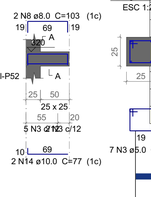


III-V33
ESC 1:50



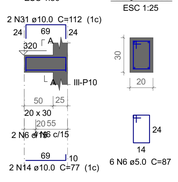
SEÇÃO A-A
ESC 1:25

III-V34
ESC 1:50



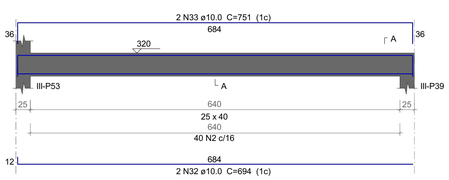
SEÇÃO A-A
ESC 1:25

III-V35
ESC 1:50

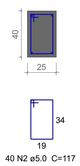


SEÇÃO A-A
ESC 1:25

III-V36
ESC 1:50



SEÇÃO A-A
ESC 1:25



Nº	REVISÕES	DATA	
0	Emissão inicial	05/08/2026	Maicon Hochscheidt

UENP
UNIVERSIDADE ESTADUAL DO NORTE DO PARANÁ

PROJETO
PROJETO ESTRUTURAL

OBRA
CENTRAL DE PÓS GRADUAÇÃO - CJ
h=3,2m
(SUPERIOR)

PROPRIETÁRIO
UNIVERSIDADE ESTADUAL DO NORTE DO PARANÁ - UENP
CNPJ: 08.885.100/0001-54

RESPONSÁVEL TÉCNICO
ENG. CIVIL MAICON HOCHSCHEIDT
CREA PR-189719/D

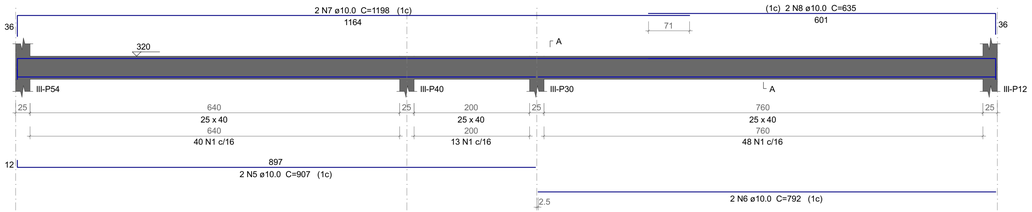
DESENHO	DATA	ESCALA	PRANCHA
Maicon Hochscheidt	24/08/2026 24/08/2026	Indicada	23 /34

PROPAV
PRÓ-REITORIA DE PLANEJAMENTO E AVALIAÇÃO INSTITUCIONAL
SECRETARIA DE OBRAS

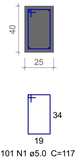
Assinatura Qualificada realizada por: **Ederson Marcos Sgarbi** em 18/09/2026 15:26. Assinatura Avançada realizada por: **Juliana Costa Rossitto (XXX.979.129-XX)** em 04/09/2026 08:11 Local: UENP/RTA/PROPAV/SECOBRAS, **Christopher Ramos Sfeir (XXX.945.859-XX)** em 04/09/2026 08:19 Local: UENP/RTA/PROPAV/SECOBRAS. Assinatura Simples realizada por: **Maicon Hochscheidt (XXX.348.319-XX)** em 04/09/2026 08:19 Local: UENP/RTA/PROPAV/SECOBRAS. Inserido ao protocolo **26.535.000-3** por: **Amanda Alves da Silva** em: 04/09/2026 08:08. Documento assinado nos termos do Art. 38 do Decreto Estadual nº 7304/2021. A autenticidade deste documento pode ser validada no endereço: **https://www.eprotocolo.pr.gov.br/spiweb/validarDocumento** com o código: **f62cfc10bd1be01526ef54d641b5bf5**

PROTOCOLO
Fls. 142
Mod. 6
INTERESSADO DO ESTADO

III-V37
ESC 1:50

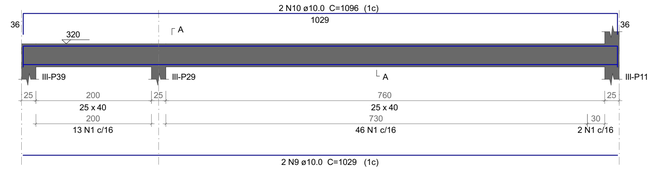


SEÇÃO A-A
ESC 1:25

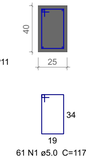


101 N1 ø5.0 C=117

III-V38
ESC 1:50

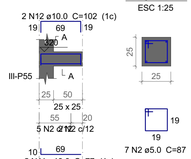


SEÇÃO A-A
ESC 1:25



61 N1 ø5.0 C=117

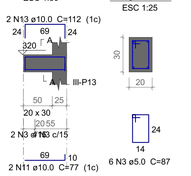
III-V39
ESC 1:50



SEÇÃO A-A
ESC 1:25

7 N2 ø5.0 C=87

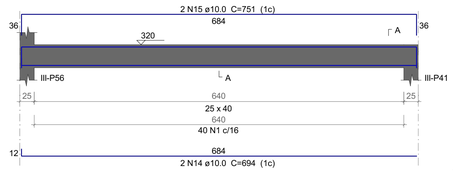
III-V40
ESC 1:50



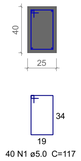
SEÇÃO A-A
ESC 1:25

6 N3 ø5.0 C=87

III-V41
ESC 1:50

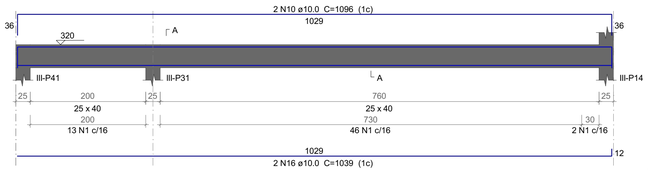


SEÇÃO A-A
ESC 1:25

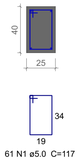


40 N1 ø5.0 C=117

III-V42
ESC 1:50

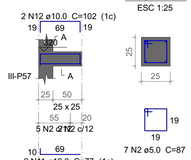


SEÇÃO A-A
ESC 1:25



61 N1 ø5.0 C=117

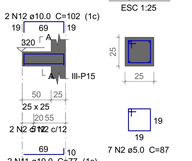
III-V43
ESC 1:50



SEÇÃO A-A
ESC 1:25

7 N2 ø5.0 C=87

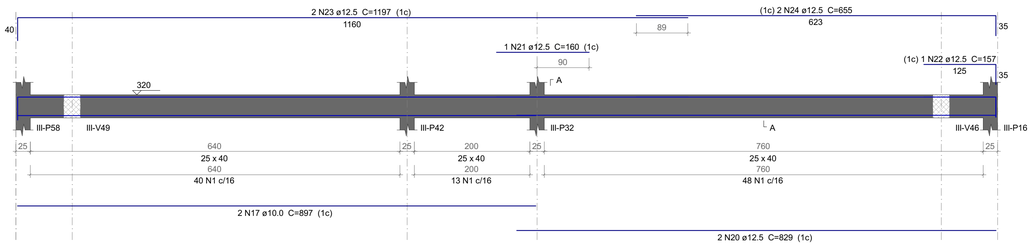
III-V44
ESC 1:50



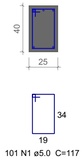
SEÇÃO A-A
ESC 1:25

7 N2 ø5.0 C=87

III-V45
ESC 1:50

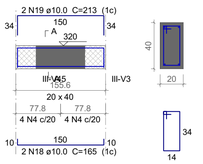


SEÇÃO A-A
ESC 1:25



101 N1 ø5.0 C=117

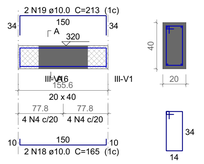
III-V46
ESC 1:50



SEÇÃO A-A
ESC 1:25

8 N4 ø5.0 C=107

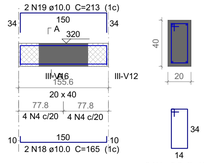
III-V47
ESC 1:50



SEÇÃO A-A
ESC 1:25

8 N4 ø5.0 C=107

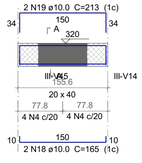
III-V48
ESC 1:50



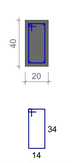
SEÇÃO A-A
ESC 1:25

8 N4 ø5.0 C=107

III-V49
ESC 1:50



SEÇÃO A-A
ESC 1:25



8 N4 ø5.0 C=107

Relação do aço

III-V37	III-V38	III-V39
III-V40	III-V41	III-V42
III-V43	III-V44	III-V45
III-V46	III-V47	III-V48
III-V49		

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	364	117	42588
	2	5.0	21	87	1827
	3	5.0	6	87	522
	4	5.0	32	107	3424
CA50	5	10.0	2	907	1814
	6	10.0	2	792	1584
	7	10.0	2	1198	2396
	8	10.0	2	635	1270
	9	10.0	2	1029	2058
	10	10.0	4	1096	4384
	11	10.0	8	77	616
	12	10.0	6	102	612
	13	10.0	2	112	224
	14	10.0	2	694	1388
	15	10.0	2	751	1502
	16	10.0	2	1039	2078
	17	10.0	2	897	1794
	18	10.0	8	165	1320
	19	10.0	8	213	1704
	20	12.5	2	829	1658
	21	12.5	1	160	160
	22	12.5	1	157	157
	23	12.5	2	1197	2394
	24	12.5	2	655	1310

Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 10 % (Barras)	PESO + 10 % (kg)
CA50	10.0	247.5	23	167.8
	12.5	56.8	6	60.2
CA60	5.0	483.7	-	82

PESO TOTAL (kg)	
CA50	228
CA60	82

Volume de concreto (C-25) = 6.27 m³
Área de forma = 66.81 m²

Nº	REVISÕES	DATA	
0	Emissão inicial	05/08/2026	Maicon Hochscheidt

UENP
UNIVERSIDADE ESTADUAL DO NORTE DO PARANÁ

PROJETO
PROJETO ESTRUTURAL

OBRA
CENTRAL DE PÓS GRADUAÇÃO - CJ
h=3.2m
(SUPERIOR)

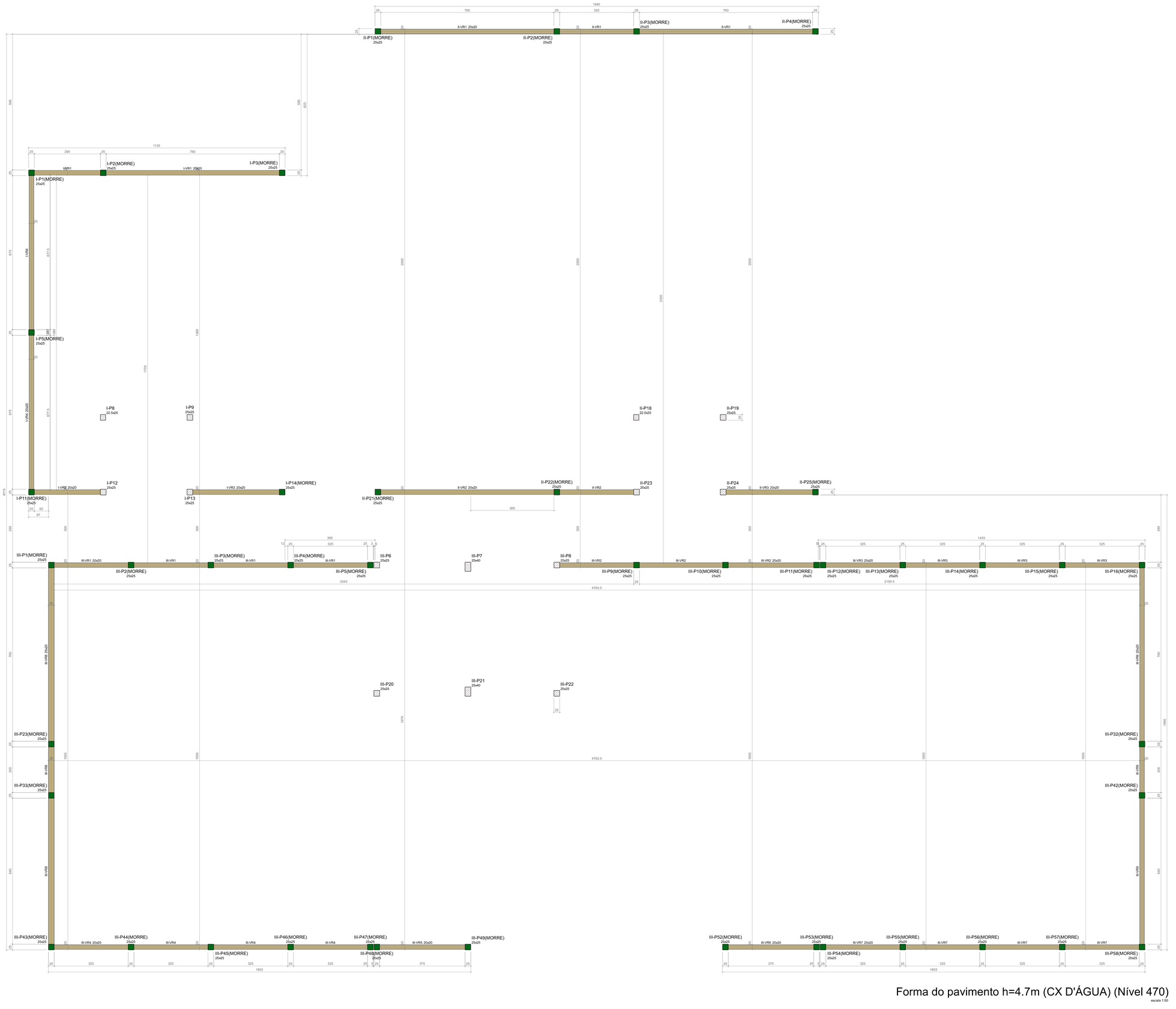
PROPRIETÁRIO
UNIVERSIDADE ESTADUAL DO NORTE DO PARANÁ - UENP
CNPJ: 08.885.100/0001-54

RESPONSÁVEL TÉCNICO
ENG. CIVIL MAICON HOCHSCHEIDT
CREA PR-189719/D

DESENHO	DATA	ESCALA	PRANCHA
Maicon Hochscheidt	24/08/2026 24/08/2026	Indicada	24 /34

PROPAV
PRÓ-REITORIA DE PLANEJAMENTO E AVALIAÇÃO INSTITUCIONAL
SECRETARIA DE OBRAS

Assinatura Qualificada realizada por: **Ederson Marcos Sgarbi** em 18/09/2026 15:26. Assinatura Avançada realizada por: **Juliana Costa Rossitto (XXX.979.129-XX)** em 04/09/2026 08:11 Local: UENP/RTA/PROPAV/SECOBRAS, **Christopher Ramos Sfeir (XXX.945.859-XX)** em 04/09/2026 08:19 Local: UENP/RTA/PROPAV/SECOBRAS. Assinatura Simples realizada por: **Maicon Hochscheidt (XXX.348.319-XX)** em 04/09/2026 08:19 Local: UENP/RTA/PROPAV/SECOBRAS. Inserido ao protocolo **26.535.000-3** por: **Amanda Alves da Silva** em: 04/09/2026 08:08. Documento assinado nos termos do Art. 38 do Decreto Estadual nº 7304/2021. A autenticidade deste documento pode ser validada no endereço: **https://www.eprotocolo.pr.gov.br/spiweb/validarDocumento** com o código: **f62cfc10bd1be01526ef54d641b5bf5**



Forma do pavimento h=4.7m (CX D'ÁGUA) (Nível 470)

escala 1:50

Vigas			
Nome	Seção (cm)	Elevação (cm)	Nível (cm)
I-VR1	20x20	0	470
I-VR2	20x20	0	470
I-VR3	20x20	0	470
I-VR4	20x20	0	470
II-VR1	20x20	0	470
II-VR2	20x20	0	470
II-VR3	20x20	0	470
III-VR1	20x20	0	470
III-VR2	20x20	0	470
III-VR3	20x20	0	470
III-VR4	20x20	0	470
III-VR5	20x20	0	470
III-VR6	20x20	0	470
III-VR7	20x20	0	470
III-VR8	25x20	0	470
III-VR9	20x20	0	470

Características dos materiais	
fck (kgf/cm²)	Ecs (kgf/cm²)
250	241500

Dimensão máxima do agregado = 19 mm

Pilares			
Nome	Seção (cm)	Elevação (cm)	Nível (cm)
I-P1	25x25	0	470
I-P2	25x25	0	470
I-P3	25x25	0	470
I-P5	25x25	0	470
I-P8	22.5x25	0	470
I-P9	25x25	0	470
I-P11	25x25	0	470
I-P12	25x25	0	470
I-P13	25x25	0	470
I-P14	25x25	0	470
II-P1	25x25	0	470
II-P2	25x25	0	470
II-P3	25x25	0	470
II-P4	25x25	0	470
II-P18	22.5x25	0	470
II-P19	25x25	0	470
II-P21	25x25	0	470
II-P22	25x25	0	470
II-P23	25x25	0	470
II-P24	25x25	0	470
II-P25	25x25	0	470
III-P1	25x25	0	470
III-P2	25x25	0	470
III-P3	25x25	0	470
III-P4	25x25	0	470
III-P5	25x25	0	470
III-P6	25x40	0	470
III-P8	25x25	0	470
III-P9	25x25	0	470
III-P10	25x25	0	470
III-P11	25x25	0	470
III-P12	25x25	0	470
III-P13	25x25	0	470
III-P14	25x25	0	470
III-P15	25x25	0	470
III-P16	25x25	0	470
III-P20	25x25	0	470
III-P21	25x40	0	470
III-P22	25x25	0	470
III-P23	25x25	0	470
III-P32	25x25	0	470
III-P33	25x25	0	470
III-P42	25x25	0	470
III-P43	25x25	0	470
III-P44	25x25	0	470
III-P45	25x25	0	470
III-P46	25x25	0	470
III-P47	25x25	0	470
III-P48	25x25	0	470
III-P49	25x25	0	470
III-P52	25x25	0	470
III-P53	25x25	0	470
III-P54	25x25	0	470
III-P55	25x25	0	470
III-P56	25x25	0	470
III-P57	25x25	0	470
III-P58	25x25	0	470

Legenda dos pilares
Pilar que morre
Pilar que passa

Legenda das vigas e paredes
Viga

UENP

UNIVERSIDADE ESTADUAL DO NORTE DO PARANÁ

PROJETO: PROJETO ESTRUTURAL

OBRA: CENTRAL DE PÓS GRADUAÇÃO - CJ

h=4.7m (CX D'ÁGUA)

PROPRIETÁRIO: UNIVERSIDADE ESTADUAL DO NORTE DO PARANÁ - UENP CNPJ: 08.885.103/0007-04

RESPONSÁVEL TÉCNICO: ENG. CIVIL MAICON HOCHSCHEIDT CREA PR 160716/D

DESENHO: Maicon Hochscheidt | DATA: 24/06/2026 | ESCALA: Escala

PROPAV

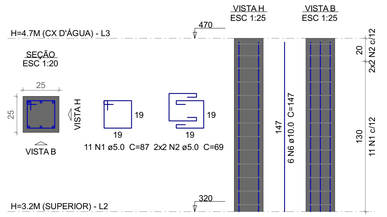
PRÓ-REITORIA DE PLANEJAMENTO E AVALIAÇÃO INSTITUCIONAL
SECRETARIA DE OBRAS

PRANCHA: 25 /34

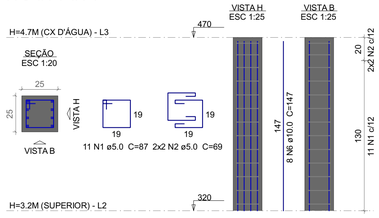
Assinatura Qualificada realizada por: **Ederson Marcos Sgarbi** em 18/09/2026 15:26. Assinatura Avançada realizada por: **Juliana Costa Rossitto (XXX.979.129-XX)** em 04/09/2026 08:11 Local: UENP/RTA/PROPAV/SECOBRAS, **Christopher Ramos Sfeir (XXX.945.859-XX)** em 04/09/2026 08:19 Local: UENP/RTA/PROPAV/SECOBRAS. Assinatura Simples realizada por: **Maicon Hochscheidt (XXX.348.319-XX)** em 04/09/2026 08:19 Local: UENP/RTA/PROPAV/SECOBRAS. Inserido ao protocolo **26.535.000-3** por: **Amanda Alves da Silva** em: 04/09/2026 08:08. Documento assinado nos termos do Art. 38 do Decreto Estadual nº 7304/2021. A autenticidade deste documento pode ser validada no endereço: **https://www.eprotocolo.pr.gov.br/spiweb/validarDocumento** com o código: **f62cfc10bd10e0152def54d641b5bf5**

PROTOCOLO
Fls. 144
Mod. 6
DOCUMENTO DIGITAL

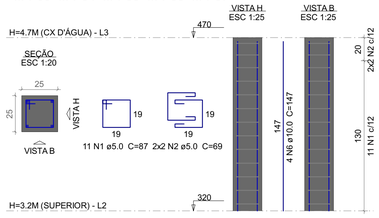
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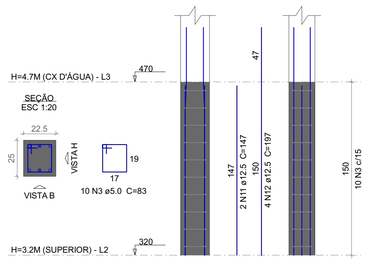
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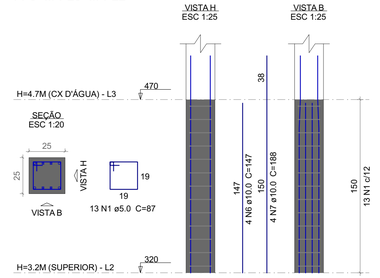
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I-P8



I-P9=III-P20=III-P22



Relação do aço

9xI-P1	3xI-P3	26xI-P5
I-P8	3xI-P9	3xI-P12
I-P13	II-P18	II-P19
II-P21	5xII-P22	III-P6
III-P7	III-P8	III-P21

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	600	87	52200
	2	5.0	196	69	13524
	3	5.0	20	83	1660
	4	5.0	23	117	2691
	5	5.0	13	34	442
CA50	6	10.0	260	147	38220
	7	10.0	38	188	7144
	8	10.0	4	137	548
	9	10.0	4	178	712
	10	10.0	2	75	150
	11	12.5	2	147	294
	12	12.5	12	197	2364
	13	12.5	2	137	274
	14	12.5	4	187	748

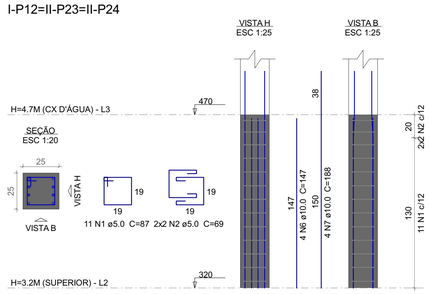
Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 10 % (Barras)	PESO + 10 % (kg)
CA50	10.0	467.8	43	317.2
	12.5	36.8	4	39
CA60	5.0	705.2	-	119.6

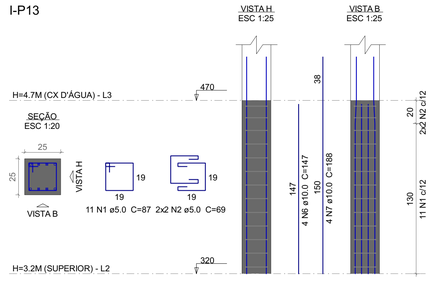
PESO TOTAL (kg)	
CA50	356.2
CA60	119.6

Volume de concreto (C-25) = 5.52 m³
Área de forma = 87.56 m²

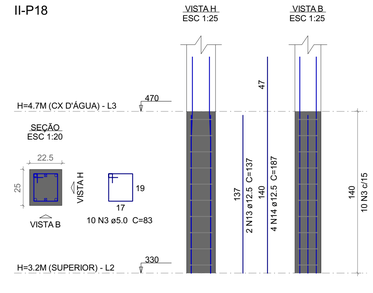
I-P12=II-P23=II-P24



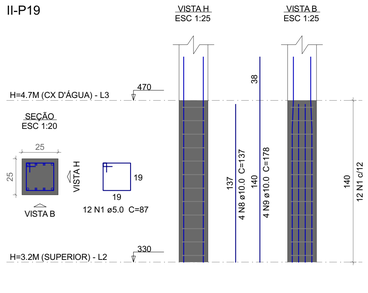
I-P13



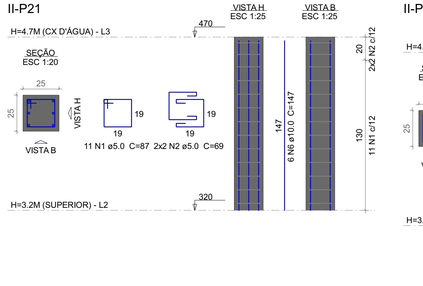
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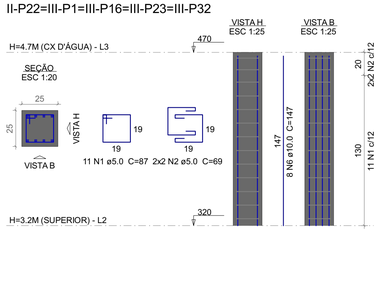
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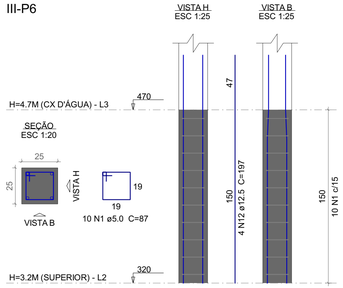
II-P21



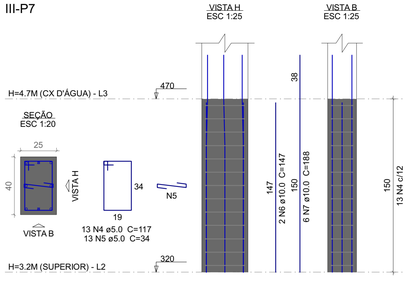
II-P22=III-P1=III-P16=III-P23=III-P32



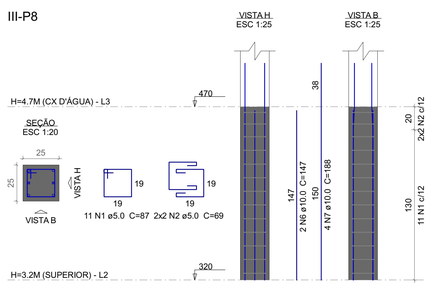
III-P6



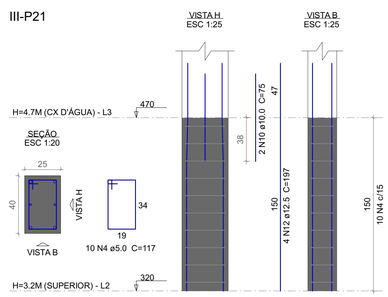
III-P7



III-P8



III-P21



Nº	REVISÕES	DATA	
0	Emissão inicial	05/08/2026	Maicon Hochscheidt

UENP
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PROJETO
PROJETO ESTRUTURAL

OBRA
CENTRAL DE PÓS GRADUAÇÃO - CJ
h=4.7m (CX D'ÁGUA)

PROPRIETÁRIO
UNIVERSIDADE ESTADUAL DO NORTE DO PARANÁ - UENP
CNPJ: 08.885.100/0001-54

RESPONSÁVEL TÉCNICO
ENG. CIVIL MAICON HOCHSCHEIDT
CREA PR-189719/D

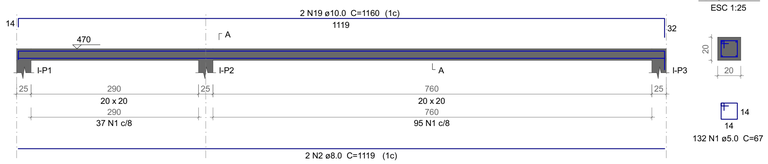
DESENHO	DATA	ESCALA	PRANCHA
Maicon Hochscheidt	24/08/2026 24/08/2026	Indicada	26 /34

PROPAV
PRÓ-REITORIA DE PLANEJAMENTO E AVALIAÇÃO INSTITUCIONAL
SECRETARIA DE OBRAS

Assinatura Qualificada realizada por: **Ederson Marcos Sgarbi** em 18/09/2026 15:26. Assinatura Avançada realizada por: **Juliana Costa Rossitto (XXX.979.129-XX)** em 04/09/2026 08:11 Local: UENP/RTA/PROPAV/SECOBRAS, **Christopher Ramos Sfeir (XXX.945.859-XX)** em 04/09/2026 08:19 Local: UENP/RTA/PROPAV/SECOBRAS. Assinatura Simples realizada por: **Maicon Hochscheidt (XXX.348.319-XX)** em 04/09/2026 08:19 Local: UENP/RTA/PROPAV/SECOBRAS. Inserido ao protocolo **26.535.000-3** por: **Amanda Alves da Silva** em: 04/09/2026 08:08. Documento assinado nos termos do Art. 38 do Decreto Estadual nº 7304/2021. A autenticidade deste documento pode ser validada no endereço: **https://www.eprotocolo.pr.gov.br/spiweb/validarDocumento** com o código: **f62cfc10bd1be01526ef54d641b5bf5**

PROTOCOLO
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Mod. 6
INTERESSADO DO ESTADO

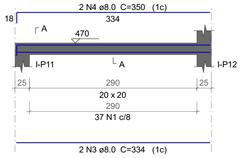
I-VR1
ESC 1:50



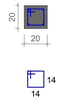
SEÇÃO A-A
ESC 1:25

132 N1 ø5.0 C=67

I-VR2
ESC 1:50

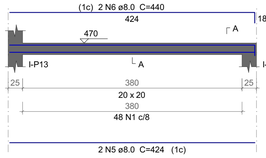


SEÇÃO A-A
ESC 1:25

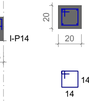


37 N1 ø5.0 C=67

I-VR3
ESC 1:50

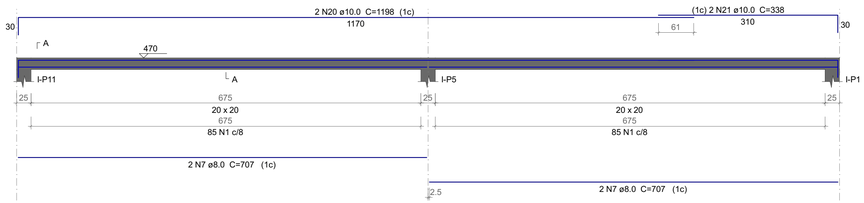


SEÇÃO A-A
ESC 1:25

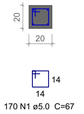


48 N1 ø5.0 C=67

I-VR4
ESC 1:50

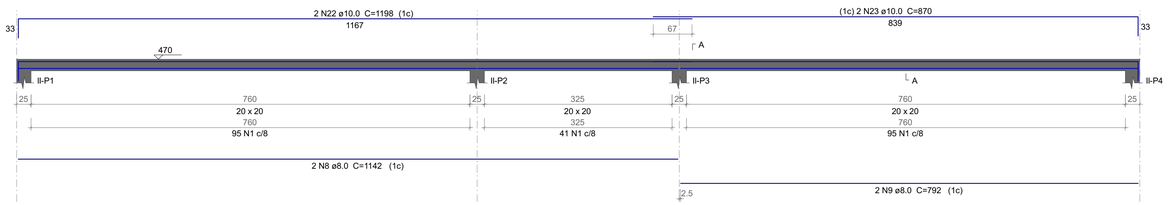


SEÇÃO A-A
ESC 1:25

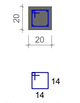


170 N1 ø5.0 C=67

II-VR1
ESC 1:50

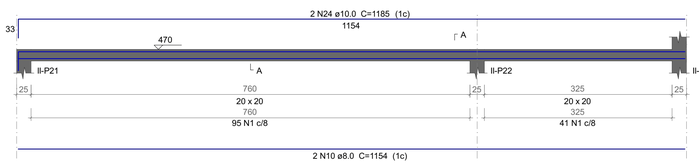


SEÇÃO A-A
ESC 1:25



231 N1 ø5.0 C=67

II-VR2
ESC 1:50

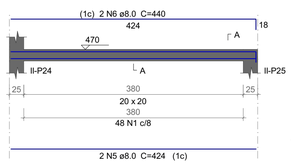


SEÇÃO A-A
ESC 1:25



136 N1 ø5.0 C=67

II-VR3
ESC 1:50

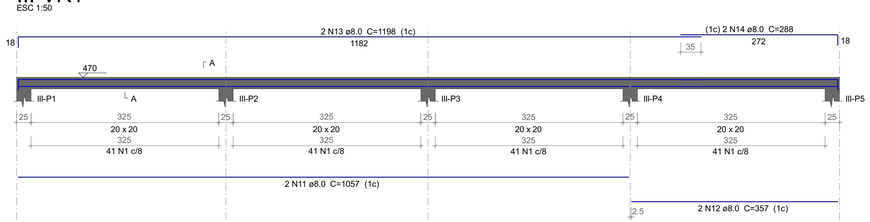


SEÇÃO A-A
ESC 1:25

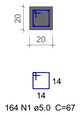


48 N1 ø5.0 C=67

III-VR1
ESC 1:50

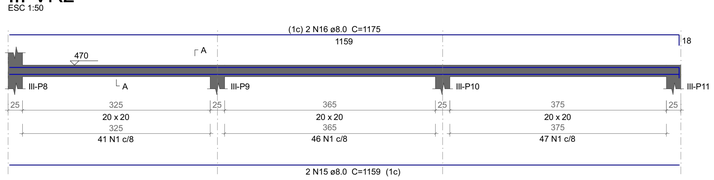


SEÇÃO A-A
ESC 1:25

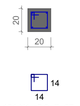


164 N1 ø5.0 C=67

III-VR2
ESC 1:50

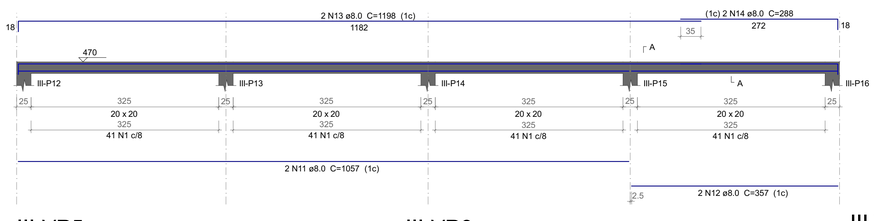


SEÇÃO A-A
ESC 1:25

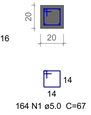


134 N1 ø5.0 C=67

III-VR3
ESC 1:50

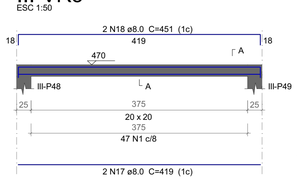


SEÇÃO A-A
ESC 1:25

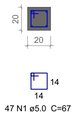


164 N1 ø5.0 C=67

III-VR5
ESC 1:50

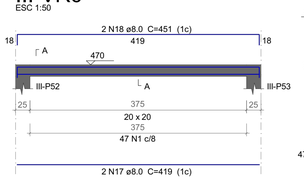


SEÇÃO A-A
ESC 1:25

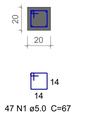


47 N1 ø5.0 C=67

III-VR6
ESC 1:50

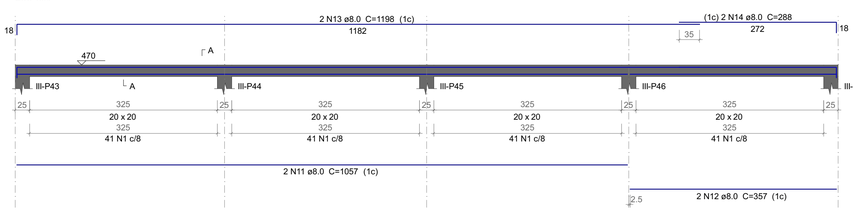


SEÇÃO A-A
ESC 1:25

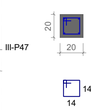


47 N1 ø5.0 C=67

III-VR4
ESC 1:50



SEÇÃO A-A
ESC 1:25



164 N1 ø5.0 C=67

Relação do aço

I-VR1	I-VR2	I-VR3
I-VR4	II-VR1	II-VR2
II-VR3	III-VR1	III-VR2
III-VR3	III-VR4	III-VR5
III-VR6		

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	1522	67	101974
CA50	2	8.0	2	1119	2238
	3	8.0	2	334	668
	4	8.0	2	350	700
	5	8.0	4	424	1696
	6	8.0	4	440	1760
	7	8.0	4	707	2828
	8	8.0	2	1142	2284
	9	8.0	2	792	1584
	10	8.0	2	1154	2308
	11	8.0	6	1057	6342
	12	8.0	6	357	2142
	13	8.0	6	1198	7188
	14	8.0	6	288	1728
	15	8.0	2	1159	2318
	16	8.0	2	1175	2350
	17	8.0	4	419	1676
	18	8.0	4	451	1804
	19	10.0	2	1160	2320
	20	10.0	2	1198	2396
	21	10.0	2	338	676
	22	10.0	2	1198	2396
	23	10.0	2	870	1740
	24	10.0	2	1185	2370

Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 10 % (Barras)	PESO + 10 % (kg)
CA50	8.0	416.2	39	180.6
	10.0	119	11	80.7
CA60	5.0	1019.8	-	172.9

PESO TOTAL (kg)	
CA50	261.3
CA60	172.9

Volume de concreto (C-25) = 4.84 m³
Área de forma = 72.57 m²

Nº	REVISÕES	DATA	
0	Emissão inicial	05/08/2026	Maicon Hochscheidt

UENP
UNIVERSIDADE ESTADUAL DO NORTE DO PARANÁ

PROJETO
PROJETO ESTRUTURAL

OBRA
CENTRAL DE PÓS GRADUAÇÃO - CJ
h=4,7m (CX D'AGUA)

PROPRIETÁRIO
UNIVERSIDADE ESTADUAL DO NORTE DO PARANÁ - UENP
CNPJ. 08.885.100/0001-54

RESPONSÁVEL TÉCNICO
ENG. CIVIL MAICON HOCHSCHEIDT
CREA PR-189719/D

DESENHO	DATA	ESCALA	PRANCHA
Maicon Hochscheidt	24/08/2026	Indicada	27 /34

PROPAV
PRÓ-REITORIA DE PLANEJAMENTO E AVALIAÇÃO INSTITUCIONAL
SECRETARIA DE OBRAS

Assinatura Qualificada realizada por: **Ederson Marcos Sgarbi** em 18/09/2026 15:26. Assinatura Avançada realizada por: **Juliana Costa Rossitto (XXX.979.129-XX)** em 04/09/2026 08:11 Local: UENP/RTA/PROPAV/SECOBRAS, **Christopher Ramos Sfeir (XXX.945.859-XX)** em 04/09/2026 08:19 Local: UENP/RTA/PROPAV/SECOBRAS. Assinatura Simples realizada por: **Maicon Hochscheidt (XXX.348.319-XX)** em 04/09/2026 08:19 Local: UENP/RTA/PROPAV/SECOBRAS. Inserido ao protocolo **26.535.000-3** por: **Amanda Alves da Silva** em: 04/09/2026 08:08. Documento assinado nos termos do Art. 38 do Decreto Estadual nº 7304/2021. A autenticidade deste documento pode ser validada no endereço: **https://www.eprotocolo.pr.gov.br/spiweb/validarDocumento** com o código: **f62cfc10bd1be01526ef54d641b5bf5**

PROTOCOLO INTERNO DO ESTADO
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Mod. 6

III-VR7

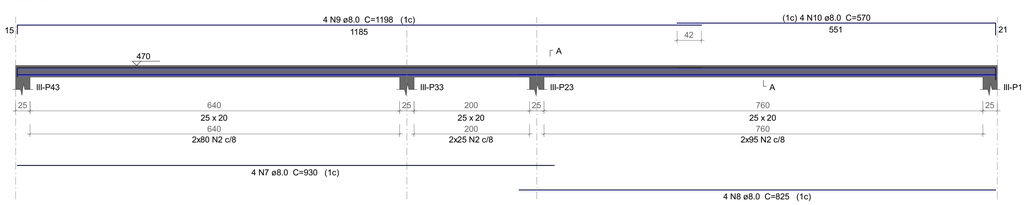
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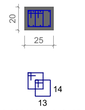
SEÇÃO A-A
ESC 1:25

III-VR8

ESC 1:50

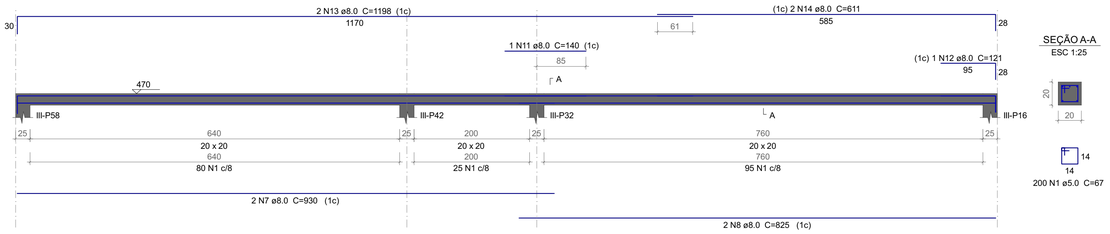


SEÇÃO A-A
ESC 1:25



III-VR9

ESC 1:50



SEÇÃO A-A
ESC 1:25

Relação do aço

III-VR7 III-VR8 III-VR9

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	364	67	24388
	2	5.0	400	65	26000
CA50	3	8.0	2	1057	2114
	4	8.0	2	357	714
	5	8.0	2	1198	2396
	6	8.0	2	288	576
	7	8.0	6	930	5580
	8	8.0	6	825	4950
	9	8.0	4	1198	4792
	10	8.0	4	570	2280
	11	8.0	1	140	140
	12	8.0	1	121	121
	13	8.0	2	1198	2396
	14	8.0	2	611	1222

Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 10 % (Barras)	PESO + 10 % (kg)
CA50	8.0	272.9	26	118.4
CA60	5.0	503.9	-	85.4

PESO TOTAL (kg)	
CA50	118.4
CA60	85.4

Volume de concreto (C-25) = 1.96 m³
Área de forma = 27.8 m²

Nº	REVISÕES	DATA	
0	Emissão inicial	05/08/2026	Maicon Hochscheidt

UENP
UNIVERSIDADE ESTADUAL DO NORTE DO PARANÁ

PROJETO
PROJETO ESTRUTURAL

OBRA
CENTRAL DE PÓS GRADUAÇÃO - CJ
h=4.7m (CX D'ÁGUA)

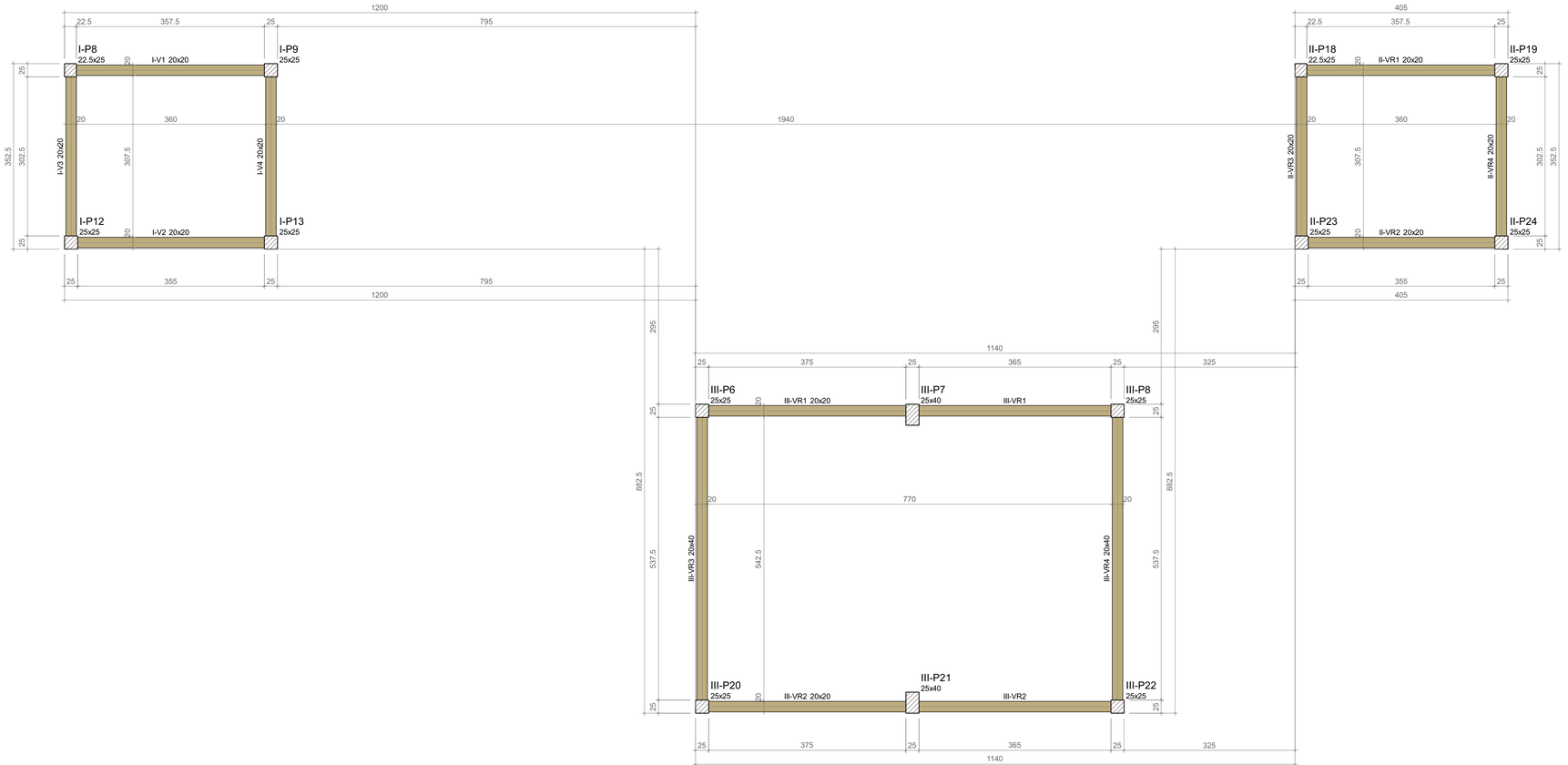
PROPRIETÁRIO
UNIVERSIDADE ESTADUAL DO NORTE DO PARANÁ - UENP
CNPJ: 08.885.100/0001-54

RESPONSÁVEL TÉCNICO
ENG. CIVIL MAICON HOCHSCHEIDT
CREA PR-189719/D

DESENHO	DATA	ESCALA	PRANCHA
Maicon Hochscheidt	24/08/2026 24/08/2026	Indicada	28 /34

PROPAV
PRÓ-REITORIA DE PLANEJAMENTO E AVALIAÇÃO INSTITUCIONAL
SECRETARIA DE OBRAS

Assinatura Qualificada realizada por: **Ederson Marcos Sgarbi** em 18/09/2026 15:26. Assinatura Avançada realizada por: **Juliana Costa Rossitto (XXX.979.129-XX)** em 04/09/2026 08:11 Local: UENP/RTA/PROPAV/SECOBRAS, **Christopher Ramos Sfeir (XXX.945.859-XX)** em 04/09/2026 08:19 Local: UENP/RTA/PROPAV/SECOBRAS. Assinatura Simples realizada por: **Maicon Hochscheidt (XXX.348.319-XX)** em 04/09/2026 08:19 Local: UENP/RTA/PROPAV/SECOBRAS. Inserido ao protocolo **26.535.000-3** por: **Amanda Alves da Silva** em: 04/09/2026 08:08. Documento assinado nos termos do Art. 38 do Decreto Estadual nº 7304/2021. A autenticidade deste documento pode ser validada no endereço: **https://www.eprotocolo.pr.gov.br/spiweb/validarDocumento** com o código: **f62cfc10bd1be01526ef54d641b5bf5**



Forma do pavimento h=6.2m (Nível 620)

escala 1:50

Vigas			
Nome	Seção (cm)	Elevação (cm)	Nível (cm)
I-V1	20x20	0	620
I-V2	20x20	0	620
I-V3	20x20	0	620
I-V4	20x20	0	620
II-VR1	20x20	0	620
II-VR2	20x20	0	620
II-VR3	20x20	0	620
II-VR4	20x20	0	620
III-VR1	20x20	0	620
III-VR2	20x20	0	620
III-VR3	20x40	0	620
III-VR4	20x40	0	620

Características dos materiais	
fck (kgf/cm²)	Ecs (kgf/cm²)
250	241500

Dimensão máxima do agregado = 19 mm

Pilares			
Nome	Seção (cm)	Elevação (cm)	Nível (cm)
I-P8	22.5x25	0	620
I-P9	25x25	0	620
I-P12	25x25	0	620
I-P13	25x25	0	620
II-P18	22.5x25	0	620
II-P19	25x25	0	620
II-P23	25x25	0	620
II-P24	25x25	0	620
III-P6	25x25	0	620
III-P7	25x40	0	620
III-P8	25x25	0	620
III-P20	25x25	0	620
III-P21	25x40	0	620
III-P22	25x25	0	620

Legenda dos pilares
Pilar que passa

Legenda das vigas e paredes
Viga

Nº	REVISÕES	DATA	
0	Emissão inicial	05/08/2026	Maicon Hochscheidt

UENP

UNIVERSIDADE ESTADUAL DO NORTE DO PARANÁ

PROJETO: PROJETO ESTRUTURAL

OBRA: CENTRAL DE PÓS GRADUAÇÃO - CJ

h=6.2m

PROPRIETÁRIO: UNIVERSIDADE ESTADUAL DO NORTE DO PARANÁ - UENP
CNPJ: 08.885.100/0001-54

RESPONSÁVEL TÉCNICO: ENG. CIVIL MAICON HOCHSCHEIDT
CREA PR-189719/D

DESENHO	DATA	ESCALA	PRANCHA
Maicon Hochscheidt		Indicada	29 /34

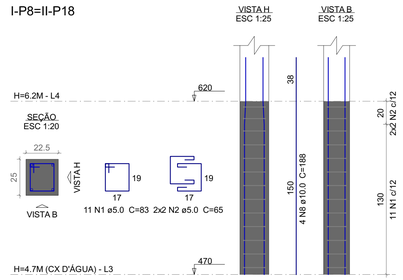
PROPAV
PRÓ-REITORIA DE PLANEJAMENTO E AVALIAÇÃO INSTITUCIONAL
SECRETARIA DE OBRAS

PROTOCOLO INTERNO DO ESTADO
Fls. 147
Mod. 6

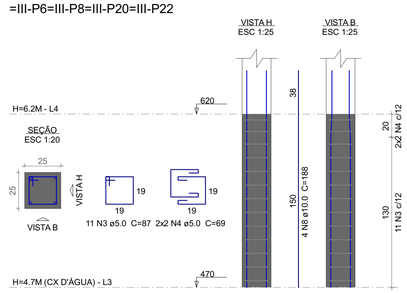
Assinatura Qualificada realizada por: **Ederson Marcos Sgarbi** em 18/09/2026 15:26. Assinatura Avançada realizada por: **Juliana Costa Rossitto (XXX.979.129-XX)** em 04/09/2026 08:11 Local: UENP/RTA/PROPAV/SECOBRAS, **Christopher Ramos Sfeir (XXX.945.859-XX)** em 04/09/2026 08:19 Local: UENP/RTA/PROPAV/SECOBRAS. Assinatura Simples realizada por: **Maicon Hochscheidt (XXX.348.319-XX)** em 04/09/2026 08:19 Local: UENP/RTA/PROPAV/SECOBRAS. Inserido ao protocolo **26.535.000-3** por: **Amanda Alves da Silva** em: 04/09/2026 08:08. Documento assinado nos termos do Art. 38 do Decreto Estadual nº 7304/2021. A autenticidade deste documento pode ser validada no endereço: **https://www.eprotocolo.pr.gov.br/spiweb/validarDocumento** com o código: **f62cfc10bd1be01526ef54d641b5bf5**

PROTOCOLO
Fls. 148
Mod. 6
INTERESSADO DO ESTADO

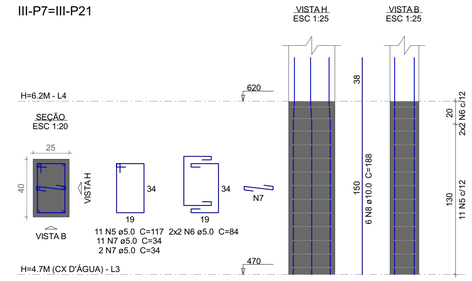
I-P8=II-P18



I-P9=I-P12=I-P13=II-P19=II-P23=II-P24= =III-P6=III-P8=III-P20=III-P22



III-P7=III-P21



Relação do aço

2xI-P8 10xI-P9 2xIII-P7

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	22	83	1826
	2	5.0	8	65	520
	3	5.0	110	87	9570
	4	5.0	40	69	2760
	5	5.0	22	117	2574
	6	5.0	8	84	672
	7	5.0	26	34	884
CA50	8	10.0	60	188	11280

Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 10 % (Barras)	PESO + 10 % (kg)
CA50	10.0	112.8	11	76.5
CA60	5.0	188.1	-	31.9

PESO TOTAL (kg)	
CA50	76.5
CA60	31.9

Volume de concreto (C-25) = 1.41 m³
Área de forma = 21.75 m²

Nº	REVISÕES	DATA	
0	Emissão inicial	05/08/2026	Maicon Hochscheidt

UENP
UNIVERSIDADE ESTADUAL DO NORTE DO PARANÁ

PROJETO: PROJETO ESTRUTURAL
OBRA: CENTRAL DE PÓS GRADUAÇÃO - CJ
h=6.2m

PROPRIETÁRIO: UNIVERSIDADE ESTADUAL DO NORTE DO PARANÁ - UENP
CNPJ: 08.885.100/0001-54

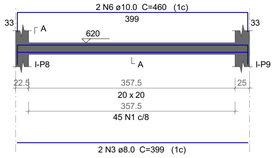
RESPONSÁVEL TÉCNICO: ENG. CIVIL MAICON HOCHSCHEIDT
CREA PR-189719/D

DESENHO	DATA	ESCALA	PRANCHA
Maicon Hochscheidt		Indicada	30 /34

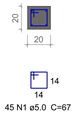
PROPAV
PRÓ-REITORIA DE PLANEJAMENTO E AVALIAÇÃO INSTITUCIONAL
SECRETARIA DE OBRAS

Assinatura Qualificada realizada por: **Ederson Marcos Sgarbi** em 18/09/2026 15:26. Assinatura Avançada realizada por: **Juliana Costa Rossitto (XXX.979.129-XX)** em 04/09/2026 08:11 Local: UENP/RTA/PROPAV/SECOBRAS, **Christopher Ramos Sfeir (XXX.945.859-XX)** em 04/09/2026 08:19 Local: UENP/RTA/PROPAV/SECOBRAS. Assinatura Simples realizada por: **Maicon Hochscheidt (XXX.348.319-XX)** em 04/09/2026 08:19 Local: UENP/RTA/PROPAV/SECOBRAS. Inserido ao protocolo **26.535.000-3** por: **Amanda Alves da Silva** em: 04/09/2026 08:08. Documento assinado nos termos do Art. 38 do Decreto Estadual nº 7304/2021. A autenticidade deste documento pode ser validada no endereço: **https://www.eprotocolo.pr.gov.br/spiweb/validarDocumento** com o código: **f62cfc10bd1be01526ef54d641b5bf5**

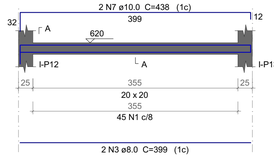
I-V1
ESC 1:50



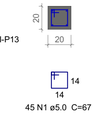
SEÇÃO A-A
ESC 1:25



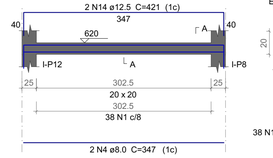
I-V2
ESC 1:50



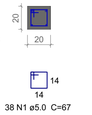
SEÇÃO A-A
ESC 1:25



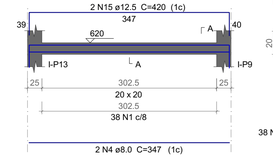
I-V3
ESC 1:50



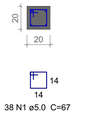
SEÇÃO A-A
ESC 1:25



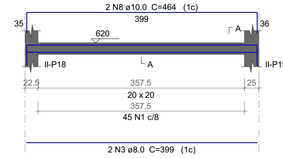
I-V4
ESC 1:50



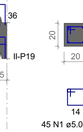
SEÇÃO A-A
ESC 1:25



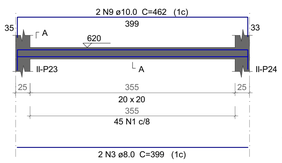
II-VR1
ESC 1:50



SEÇÃO A-A
ESC 1:25



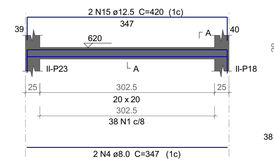
II-VR2
ESC 1:50



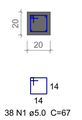
SEÇÃO A-A
ESC 1:25



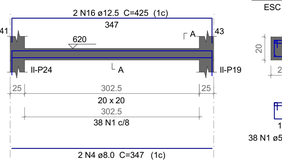
II-VR3
ESC 1:50



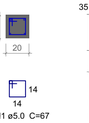
SEÇÃO A-A
ESC 1:25



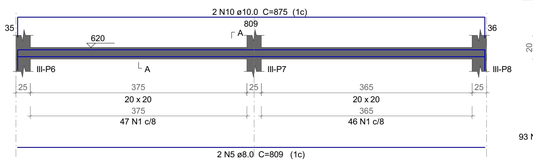
II-VR4
ESC 1:50



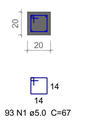
SEÇÃO A-A
ESC 1:25



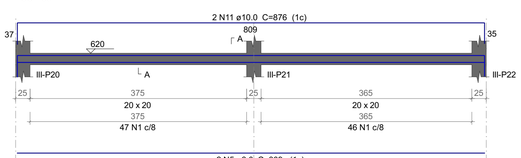
III-VR1
ESC 1:50



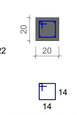
SEÇÃO A-A
ESC 1:25



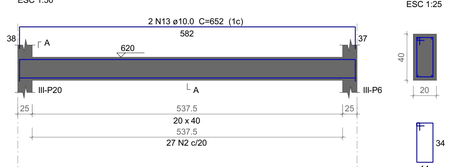
III-VR2
ESC 1:50



SEÇÃO A-A
ESC 1:25

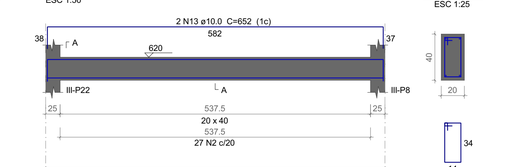


III-VR3
ESC 1:50



SEÇÃO A-A
ESC 1:25

III-VR4
ESC 1:50



SEÇÃO A-A
ESC 1:25

Relação do aço

I-V1	I-V2	I-V3
I-V4	II-VR1	II-VR2
II-VR3	II-VR4	III-VR1
III-VR2	III-VR3	III-VR4

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	518	67	34706
	2	5.0	54	107	5778
CA50	3	8.0	8	399	3192
	4	8.0	8	347	2776
	5	8.0	4	809	3236
	6	10.0	2	460	920
	7	10.0	2	438	876
	8	10.0	2	464	928
	9	10.0	2	462	924
	10	10.0	2	875	1750
	11	10.0	2	876	1752
	12	10.0	4	582	2328
	13	10.0	4	652	2608
	14	12.5	2	421	842
	15	12.5	4	420	1680
	16	12.5	2	425	850

Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 10 % (Barras)	PESO + 10 % (kg)
CA50	8.0	92.1	9	39.9
	10.0	120.9	12	82
	12.5	33.8	4	35.7
CA60	5.0	404.9	-	68.6

PESO TOTAL (kg)	
CA50	157.6
CA60	68.6

Volume de concreto (C-25) = 2.51 m³
Área de forma = 35.44 m²

Nº	REVISÕES	DATA	
0	Emissão inicial	05/08/2026	Maicon Hochscheidt

UENP
UNIVERSIDADE ESTADUAL DO NORTE DO PARANÁ

PROJETO: PROJETO ESTRUTURAL

OBRA: CENTRAL DE PÓS GRADUAÇÃO - CJ

h=6.2m

PROPRIETÁRIO: UNIVERSIDADE ESTADUAL DO NORTE DO PARANÁ - UENP
CNPJ: 08.885.100/0001-54

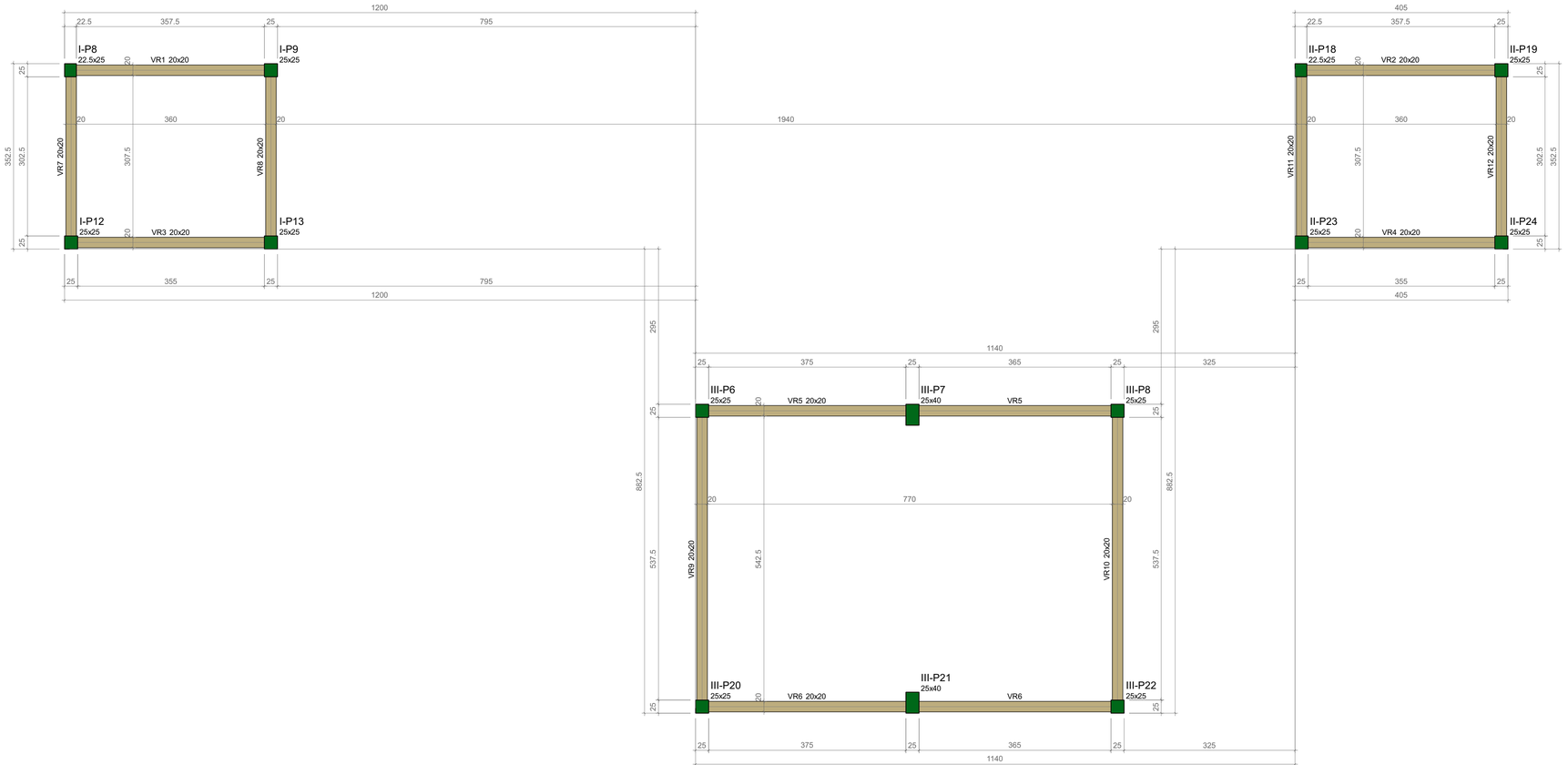
RESPONSÁVEL TÉCNICO: ENG. CIVIL MAICON HOCHSCHEIDT
CREA PR-189719/D

DESENHO	DATA	ESCALA	PRANCHA
Maicon Hochscheidt		Indicada	31 /34

PROPAV
PRÓ-REITORIA DE PLANEJAMENTO E AVALIAÇÃO INSTITUCIONAL
SECRETARIA DE OBRAS

PROTOCOLO DE INTERESSADO DO ESTADO
Nro. 149
Mov. 6

Assinatura Qualificada realizada por: **Ederson Marcos Sgarbi** em 18/09/2026 15:26. Assinatura Avançada realizada por: **Juliana Costa Rossitto (XXX.979.129-XX)** em 04/09/2026 08:11 Local: UENP/RTA/PROPAV/SECOBRAS, **Christopher Ramos Sfeir (XXX.945.859-XX)** em 04/09/2026 08:19 Local: UENP/RTA/PROPAV/SECOBRAS. Assinatura Simples realizada por: **Maicon Hochscheidt (XXX.348.319-XX)** em 04/09/2026 08:19 Local: UENP/RTA/PROPAV/SECOBRAS. Inserido ao protocolo **26.535.000-3** por: **Amanda Alves da Silva** em: 04/09/2026 08:08. Documento assinado nos termos do Art. 38 do Decreto Estadual nº 7304/2021. A autenticidade deste documento pode ser validada no endereço: **https://www.eprotocolo.pr.gov.br/spiweb/validarDocumento** com o código: **f62cfc10bd1be01526ef54d641b5bf5**



Forma do pavimento h=7.7m (RESPALDO) (Nível 770)

escala 1:50

Vigas			
Nome	Seção (cm)	Elevação (cm)	Nível (cm)
VR1	20x20	0	770
VR2	20x20	0	770
VR3	20x20	0	770
VR4	20x20	0	770
VR5	20x20	0	770
VR6	20x20	0	770
VR7	20x20	0	770
VR8	20x20	0	770
VR9	20x20	0	770
VR10	20x20	0	770
VR11	20x20	0	770
VR12	20x20	0	770

Características dos materiais	
fck (kgf/cm²)	Ecs (kgf/cm²)
250	241500

Dimensão máxima do agregado = 19 mm

Pilares			
Nome	Seção (cm)	Elevação (cm)	Nível (cm)
I-P8	22.5x25	0	770
I-P9	25x25	0	770
I-P12	25x25	0	770
I-P13	25x25	0	770
II-P18	22.5x25	0	770
II-P19	25x25	0	770
II-P23	25x25	0	770
II-P24	25x25	0	770
III-P6	25x25	0	770
III-P7	25x40	0	770
III-P8	25x25	0	770
III-P20	25x25	0	770
III-P21	25x40	0	770
III-P22	25x25	0	770

Legenda dos pilares
Pilar que morre

Legenda das vigas e paredes
Viga

Nº	REVISÕES	DATA	
0	Emissão inicial	05/08/2026	Maicon Hochscheidt

UENP

UNIVERSIDADE ESTADUAL DO NORTE DO PARANÁ

PROJETO
PROJETO ESTRUTURAL

OBRA
CENTRAL DE PÓS GRADUAÇÃO - CJ
h=7.7m
(RESPALDO)

PROPRIETÁRIO
UNIVERSIDADE ESTADUAL DO NORTE DO PARANÁ - UENP
CNPJ: 08.885.100/0001-54

RESPONSÁVEL TÉCNICO
ENG. CIVIL MAICON HOCHSCHEIDT
CREA PR-189719/D

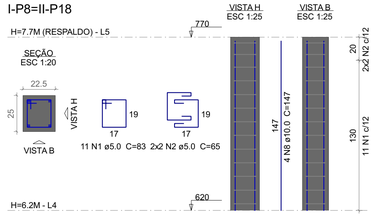
DESENHO	DATA	ESCALA	PRANCHA
Maicon Hochscheidt	24/08/2026 24/08/2026	Indicada	32 /34

PROPAV
PRÓ-REITORIA DE PLANEJAMENTO E AVALIAÇÃO INSTITUCIONAL
SECRETARIA DE OBRAS

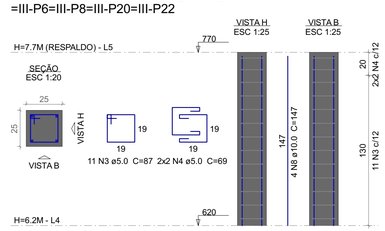
PROTOCOLO INTEGRADO DO ESTADO
Nro. 150
Mov. 6

Assinatura Qualificada realizada por: **Ederson Marcos Sgarbi** em 18/09/2026 15:26. Assinatura Avançada realizada por: **Juliana Costa Rossitto (XXX.979.129-XX)** em 04/09/2026 08:11 Local: UENP/RTA/PROPAV/SECOBRAS, **Christopher Ramos Sfeir (XXX.945.859-XX)** em 04/09/2026 08:19 Local: UENP/RTA/PROPAV/SECOBRAS. Assinatura Simples realizada por: **Maicon Hochscheidt (XXX.348.319-XX)** em 04/09/2026 08:19 Local: UENP/RTA/PROPAV/SECOBRAS. Inserido ao protocolo **26.535.000-3** por: **Amanda Alves da Silva** em: 04/09/2026 08:08. Documento assinado nos termos do Art. 38 do Decreto Estadual nº 7304/2021. A autenticidade deste documento pode ser validada no endereço: **https://www.eprotocolo.pr.gov.br/spiweb/validarDocumento** com o código: **f62cfc10bd1be01526ef54d641b5bf5**

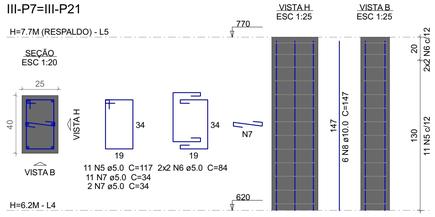
I-P8=II-P18



I-P9=I-P12=I-P13=II-P19=II-P23=II-P24= =III-P6=III-P8=III-P20=III-P22



III-P7=III-P21



Relação do aço

2xI-P8 10xI-P9 2xIII-P7

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	22	83	1826
	2	5.0	8	65	520
	3	5.0	110	87	9570
	4	5.0	40	69	2760
	5	5.0	22	117	2574
	6	5.0	8	84	672
	7	5.0	26	34	884
CA50	8	10.0	60	147	8820

Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 10 % (Barras)	PESO + 10 % (kg)
CA50	10.0	88.2	9	59.8
CA60	5.0	188.1	-	31.9

PESO TOTAL (kg)	
CA50	59.8
CA60	31.9

Volume de concreto (C-25) = 1.41 m³
Área de forma = 21.75 m²

Nº	REVISÕES	DATA	
0	Emissão inicial	05/08/2026	Maicon Hochscheidt

UENP
UNIVERSIDADE ESTADUAL DO NORTE DO PARANÁ

PROJETO: PROJETO ESTRUTURAL

OBRA: CENTRAL DE PÓS GRADUAÇÃO - CJ
h=7.7m
(RESPALDO)

PROPRIETÁRIO: UNIVERSIDADE ESTADUAL DO NORTE DO PARANÁ - UENP
CNPJ: 08.885.100/0001-54

RESPONSÁVEL TÉCNICO: ENG. CIVIL MAICON HOCHSCHEIDT
CREA PR-189719/D

DESENHO	DATA	ESCALA	PRANCHA
Maicon Hochscheidt	24/08/2026 24/08/2026	Indicada	33 /34

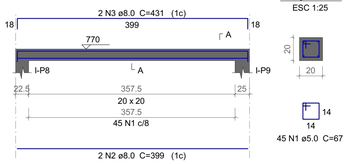
PROPAV
PRÓ-REITORIA DE PLANEJAMENTO E AVALIAÇÃO INSTITUCIONAL
SECRETARIA DE OBRAS

PROTOCOLO INTERNO DO ESTADO
Fls. 151
Mov. 6

Assinatura Qualificada realizada por: **Ederson Marcos Sgarbi** em 18/09/2026 15:26. Assinatura Avançada realizada por: **Juliana Costa Rossitto (XXX.979.129-XX)** em 04/09/2026 08:11 Local: UENP/RTA/PROPAV/SECOBRAS, **Christopher Ramos Sfeir (XXX.945.859-XX)** em 04/09/2026 08:19 Local: UENP/RTA/PROPAV/SECOBRAS. Assinatura Simples realizada por: **Maicon Hochscheidt (XXX.348.319-XX)** em 04/09/2026 08:19 Local: UENP/RTA/PROPAV/SECOBRAS. Inserido ao protocolo **26.535.000-3** por: **Amanda Alves da Silva** em: 04/09/2026 08:08. Documento assinado nos termos do Art. 38 do Decreto Estadual nº 7304/2021. A autenticidade deste documento pode ser validada no endereço: **https://www.eprotocolo.pr.gov.br/spiweb/validarDocumento** com o código: **f62cfc10bd1be01526ef54d641b5bf5**

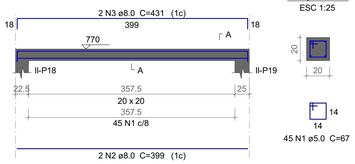
PROTOCOLO
Fls. 152
Mod. 6
INTERESSADO DO ESTADO

VR1
ESC 1:50



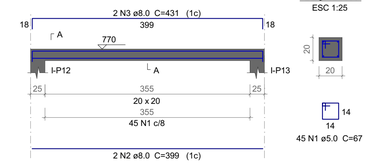
SEÇÃO A-A
ESC 1:25

VR2
ESC 1:50



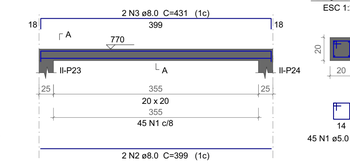
SEÇÃO A-A
ESC 1:25

VR3
ESC 1:50



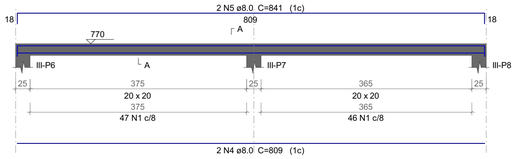
SEÇÃO A-A
ESC 1:25

VR4
ESC 1:50



SEÇÃO A-A
ESC 1:25

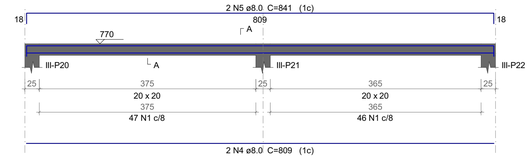
VR5
ESC 1:50



SEÇÃO A-A
ESC 1:25



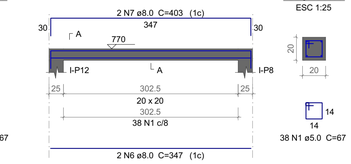
VR6
ESC 1:50



SEÇÃO A-A
ESC 1:25

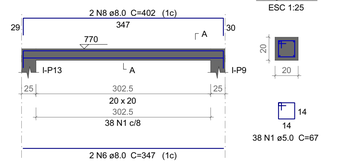


VR7
ESC 1:50



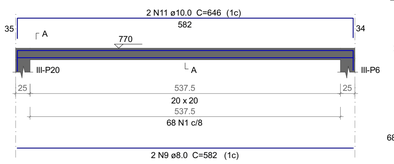
SEÇÃO A-A
ESC 1:25

VR8
ESC 1:50



SEÇÃO A-A
ESC 1:25

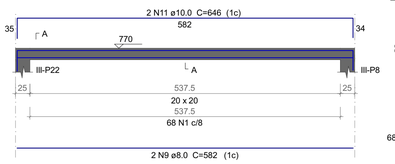
VR9
ESC 1:50



SEÇÃO A-A
ESC 1:25



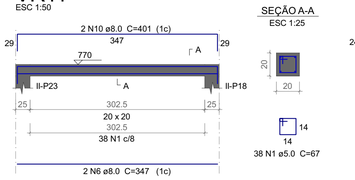
VR10
ESC 1:50



SEÇÃO A-A
ESC 1:25

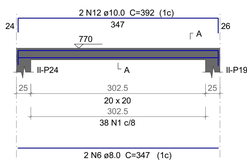


VR11
ESC 1:50



SEÇÃO A-A
ESC 1:25

VR12
ESC 1:50



SEÇÃO A-A
ESC 1:25



Relação do aço

VR1	VR2	VR3
VR4	VR5	VR6
VR7	VR8	VR9
VR10	VR11	VR12

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	654	67	43818
CA50	2	8.0	8	399	3192
	3	8.0	8	431	3448
	4	8.0	4	809	3236
	5	8.0	4	841	3364
	6	8.0	8	347	2776
	7	8.0	2	403	806
	8	8.0	2	402	804
	9	8.0	4	582	2328
	10	8.0	2	401	802
	11	10.0	4	646	2584
	12	10.0	2	392	784

Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 10 % (Barras)	PESO + 10 % (kg)
CA50	8.0	207.6	20	90.1
	10.0	33.7	4	22.8
CA60	5.0	438.2	-	74.3
PESO TOTAL (kg)				
CA50	112.9			
CA60	74.3			

Volume de concreto (C-25) = 2.08 m³
Área de forma = 31.14 m²

Nº	REVISÕES	DATA	
0	Emissão inicial	05/08/2026	Maicon Hochscheidt

UENP
UNIVERSIDADE ESTADUAL DO NORTE DO PARANÁ

PROJETO: PROJETO ESTRUTURAL

OBRA: CENTRAL DE PÓS GRADUAÇÃO - CJ
h=7.7m
(RESPALDO)

PROPRIETÁRIO: UNIVERSIDADE ESTADUAL DO NORTE DO PARANÁ - UENP
CNPJ: 08.885.100/0001-54

RESPONSÁVEL TÉCNICO: ENG. CIVIL MAICON HOCHSCHEIDT
CREA PR-189719/D

DESENHO	DATA	ESCALA	PRANCHA
Maicon Hochscheidt	24/08/2026 24/08/2026	Indicada	34 /34

PROPAV
PRÓ-REITORIA DE PLANEJAMENTO E AVALIAÇÃO INSTITUCIONAL
SECRETARIA DE OBRAS

Assinatura Qualificada realizada por: **Ederson Marcos Sgarbi** em 18/09/2026 15:26. Assinatura Avançada realizada por: **Juliana Costa Rossitto (XXX.979.129-XX)** em 04/09/2026 08:11 Local: UENP/RTA/PROPAV/SECOBRAS, **Christopher Ramos Sfeir (XXX.945.859-XX)** em 04/09/2026 08:19 Local: UENP/RTA/PROPAV/SECOBRAS. Assinatura Simples realizada por: **Maicon Hochscheidt (XXX.348.319-XX)** em 04/09/2026 08:19 Local: UENP/RTA/PROPAV/SECOBRAS. Inserido ao protocolo **26.535.000-3** por: **Amanda Alves da Silva** em: 04/09/2026 08:08. Documento assinado nos termos do Art. 38 do Decreto Estadual nº 7304/2021. A autenticidade deste documento pode ser validada no endereço: **https://www.eprotocolo.pr.gov.br/spiweb/validarDocumento** com o código: **f62cfc10bd1be01526ef54d641b5bf5**

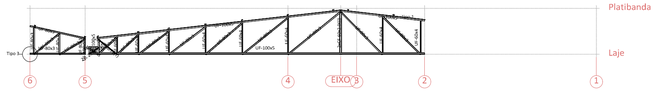
PROTOCOLO
Fls. 153
Mov. 6

2D: TESOURA-1

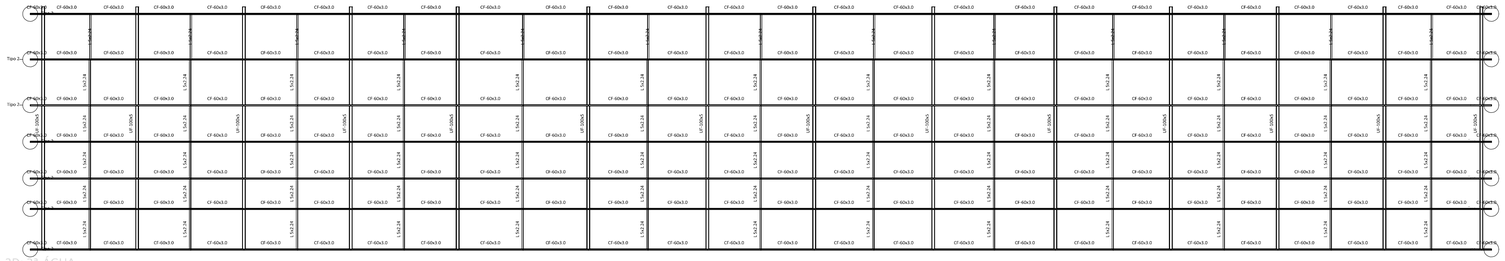


AC_Cobertura_Metalica_v01
Cobertura Metálica do AC da Central de Pós
Norma de aço dobrado: ABNT NBR 14762: 2010
Aço dobrado: A-36
Escala: 1:100

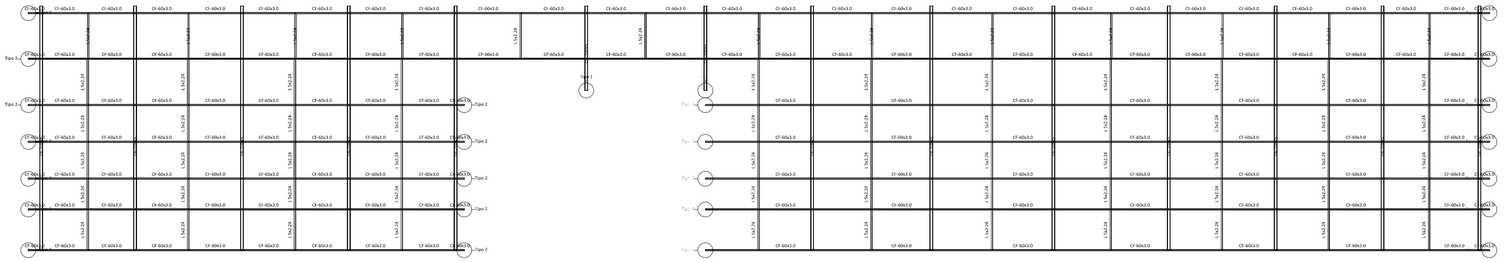
2D: TESOURA-2



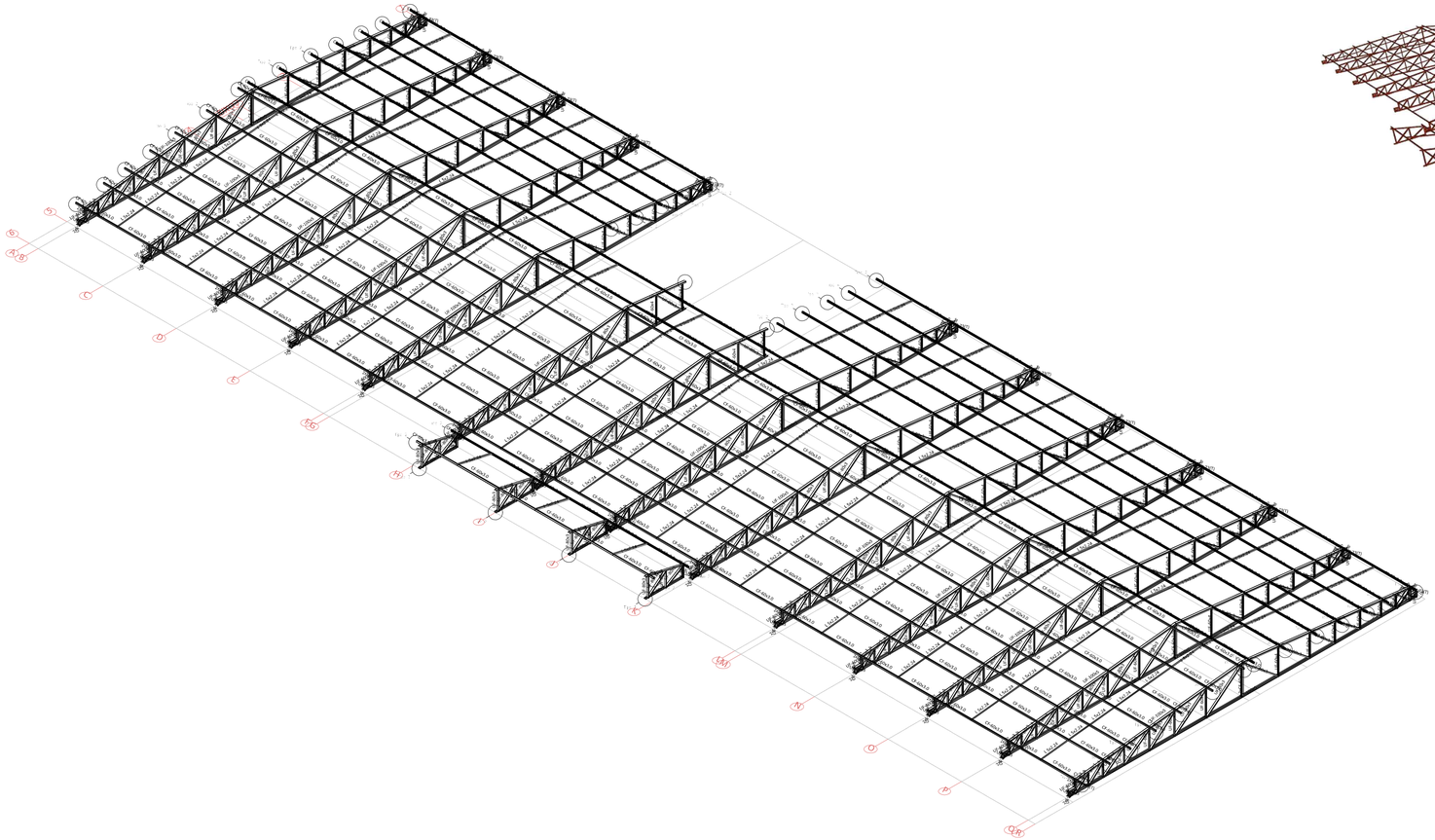
2D: 1ª-ÁGUA

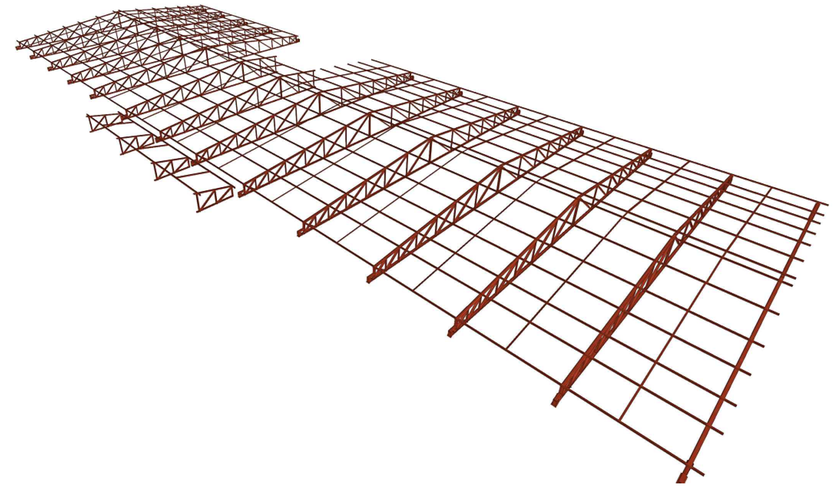


2D: 2ª-ÁGUA



3D





UENP
UNIVERSIDADE ESTADUAL DO NORTE DO PARANÁ

PROJETO: ESTRUTURAL - AC - COBERTURA METÁLICA
OBRA: CENTRAL DE PÓS GRADUAÇÃO - CJ

PROPRIETÁRIO: UNIVERSIDADE ESTADUAL DO NORTE DO PARANÁ - UENP
CNPJ: 78.680.180/0001-54

RESPONSÁVEL TÉCNICO: MAICON HOCHSCHEIDT
ENG. CIVIL CREA: PR-189.729/D

DESENHO	DATA	ESCALA	PRANCHA
MAICON	SETEMBRO/2026	INDICADA	1/3

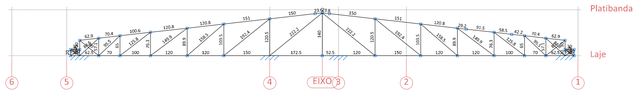
PROPAV
PRÓ-REITORIA DE PLANEJAMENTO E AVALIAÇÃO INSTITUCIONAL
SECRETARIA DE OBRAS

EMITTE LUCEM TUAM

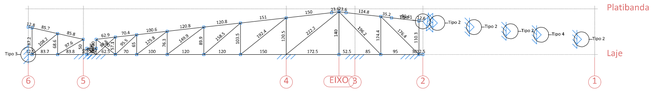
Assinatura Qualificada realizada por: **Ederson Marcos Sgarbi** em 18/09/2026 15:26. Assinatura Avançada realizada por: **Juliana Costa Rossitto (XXX.979.129-XX)** em 04/09/2026 08:11 Local: UENP/RTA/PROPAV/SECOBRAS, **Christopher Ramos Sfeir (XXX.945.859-XX)** em 04/09/2026 08:19 Local: UENP/RTA/PROPAV/SECOBRAS. Assinatura Simples realizada por: **Maicon Hochscheidt (XXX.348.319-XX)** em 04/09/2026 08:19 Local: UENP/RTA/PROPAV/SECOBRAS. Inserido ao protocolo **26.535.000-3** por: **Amanda Alves da Silva** em: 04/09/2026 08:08. Documento assinado nos termos do Art. 38 do Decreto Estadual nº 7304/2021. A autenticidade deste documento pode ser validada no endereço: **https://www.eprotocolo.pr.gov.br/spiweb/validarDocumento** com o código: **f62cfc10bd1be01526ef54d641b5bf5**

PROTOCOLO
Fls. 154
Mov. 6
UNIVERSIDADE ESTADUAL DO NORTE DO PARANÁ

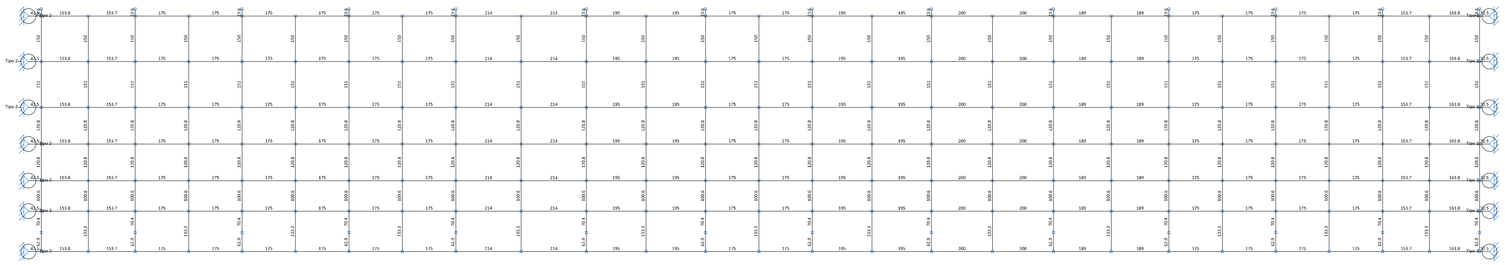
2D: TESOURA-1



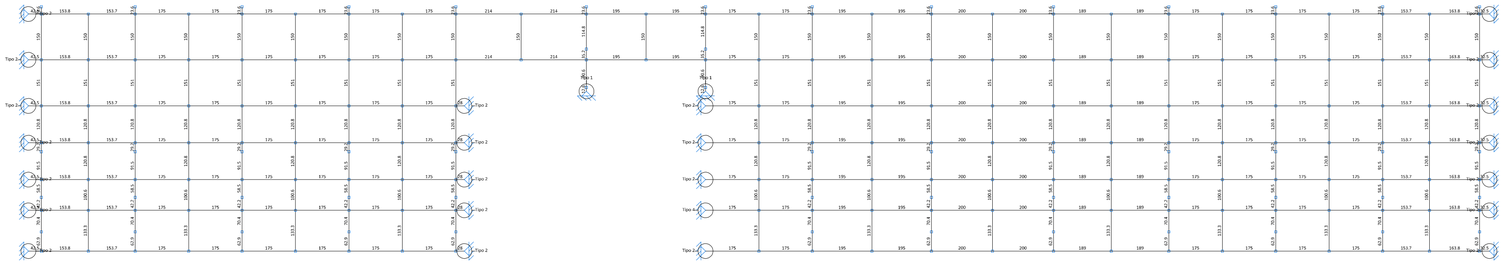
2D: TESOURA-2



2D: 1ª-ÁGUA

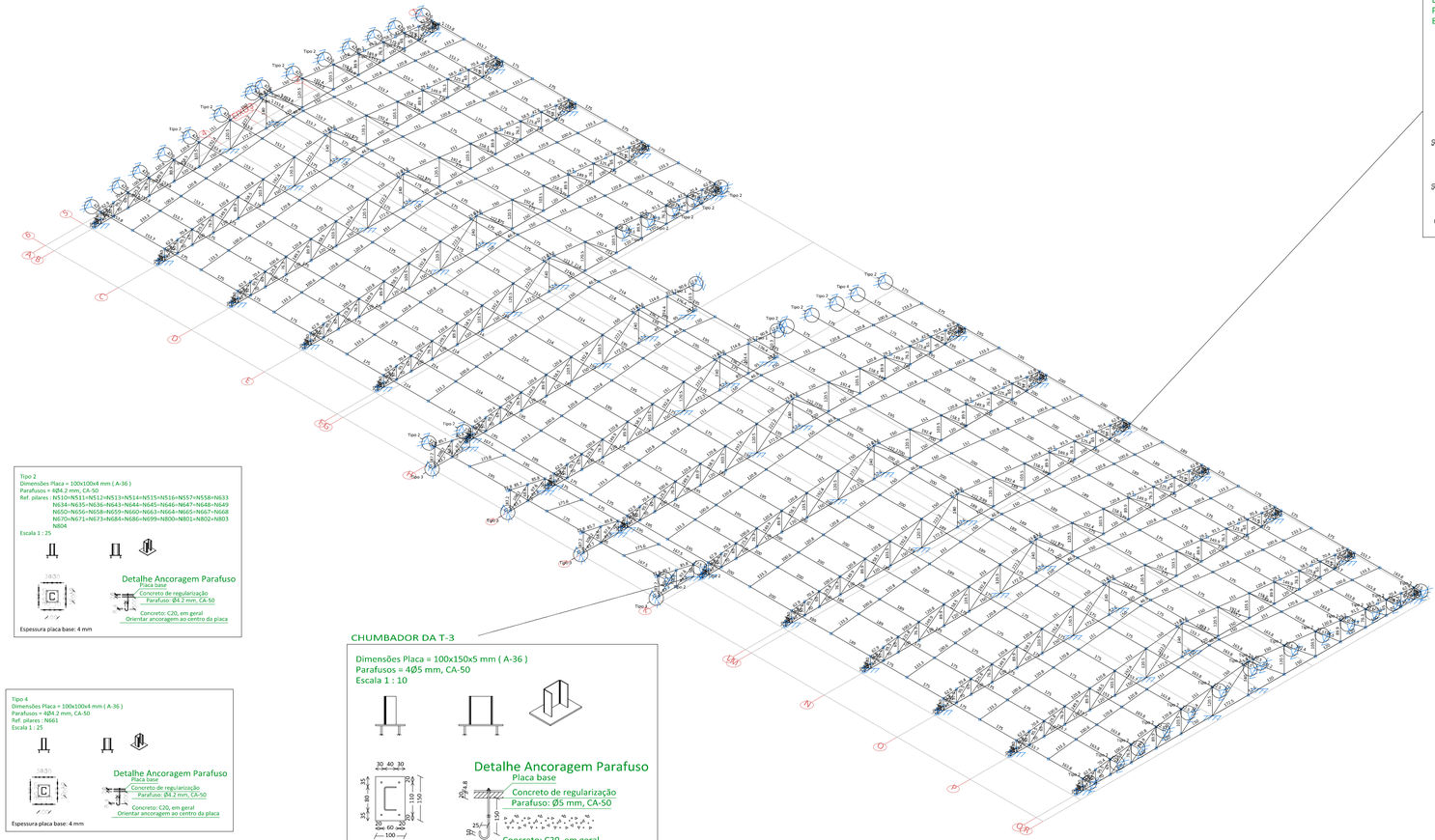


2D: 2ª-ÁGUA

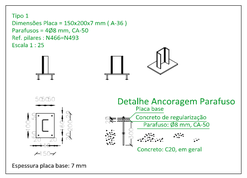


3D

AC_Cobertura_Metalica_v01
Cobertura Metálica do AC da Central de Pós
Norma de aço dobrado: ABNT NBR 14762: 2010
Aço dobrado: A-36
Escala: 1:100



Tipo 1
Dimensões Placa = 150x200x7 mm (A-36)
Parafusos = 4Ø8 mm, CA-50
Ref. pilares : N466=N493
Escala 1 : 25

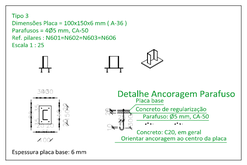


Espessura placa base: 7 mm

Tipo 2
Dimensões Placa = 100x100x4 mm (A-36)
Parafusos = 4Ø4.2 mm, CA-50
Ref. pilares : N510=N511=N512=N513=N514=N515=N516=N557=N558=N633
N634=N635=N636=N643=N644=N645=N646=N647=N648=N649
N650=N656=N658=N659=N660=N663=N664=N665=N667=N668
N670=N671=N673=N684=N686=N699=N800=N801=N802=N803
N804
Escala 1 : 25

Espessura placa base: 4 mm

Tipo 3
Dimensões Placa = 100x150x6 mm (A-36)
Parafusos = 4Ø5 mm, CA-50
Ref. pilares : N601=N602=N603=N606
Escala 1 : 25



Espessura placa base: 6 mm

Tipo 4
Dimensões Placa = 100x100x4 mm (A-36)
Parafusos = 4Ø4.2 mm, CA-50
Ref. pilares : N661
Escala 1 : 25

Espessura placa base: 4 mm

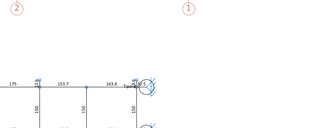
CHUMBADOR DA T-3

Dimensões Placa = 100x150x5 mm (A-36)
Parafusos = 4Ø5 mm, CA-50
Escala 1 : 10

Espessura placa base: 5 mm

CHUMBADOR DA T-1 E T-2

Dimensões Placa = 150x200x5 mm (A-36)
Parafusos = 4Ø8 mm, CA-50
Escala 1 : 10



Espessura placa base: 5 mm

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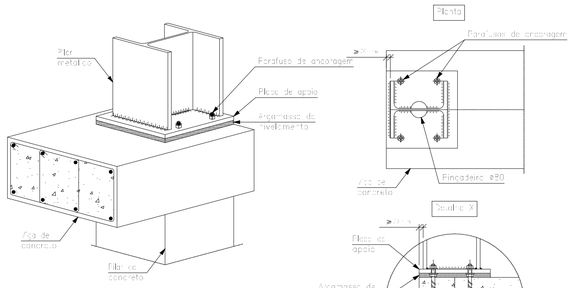
PROJETO	ESTRUTURAL - AC - COBERTURA METÁLICA
OBRA	CENTRAL DE PÓS GRADUAÇÃO - CJ
PROPRIETÁRIO	RESPONSÁVEL TÉCNICO
UNIVERSIDADE ESTADUAL DO NORTE DO PARANÁ - UENP CNPJ 78.680.337/0001-43	MAICON HOCHSCHEIDT CREA 2021/TSC/R 28-1320
DESENHO: MAICON	DATA: SETEMBRO/2026
ESCALA: INDICADA	PRANCHA: 2/3

PROPAV
PRÓ-REITORIA DE PLANEJAMENTO E AVALIAÇÃO INSTITUCIONAL
SECRETARIA DE OBRAS

Assinatura Qualificada realizada por: **Ederson Marcos Sgarbi** em 18/09/2026 15:26. Assinatura Avançada realizada por: **Juliana Costa Rossitto (XXX.979.129-XX)** em 04/09/2026 08:11 Local: UENP/RTA/PROPAV/SECOBRAS, **Christopher Ramos Sfeir (XXX.945.859-XX)** em 04/09/2026 08:19 Local: UENP/RTA/PROPAV/SECOBRAS. Assinatura Simples realizada por: **Maicon Hochscheidt (XXX.348.319-XX)** em 04/09/2026 08:19 Local: UENP/RTA/PROPAV/SECOBRAS. Inserido ao protocolo **26.535.000-3** por: **Amanda Alves da Silva** em: 04/09/2026 08:08. Documento assinado nos termos do Art. 38 do Decreto Estadual nº 7304/2021. A autenticidade deste documento pode ser validada no endereço: **https://www.eprotocolo.pr.gov.br/spiweb/validarDocumento** com o código: **f62cfc10bd1be01526ef54d641b5bf5**

PROTOCOLO No. 155 Vers. 6 INTERNADO DOCUMENTO

Ligação no extremo do vão de uma viga ou laje de concreto sobre pilar de concreto e pilar metálico superior.

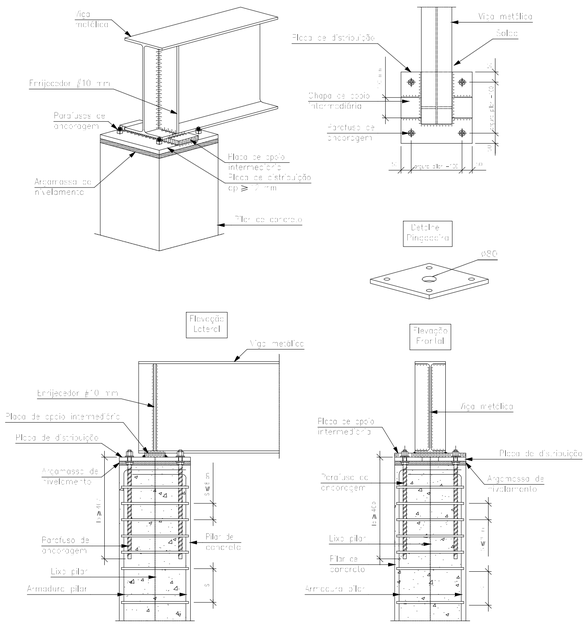


AC_Cobertura_metalica_01
Cobertura Metálica do AC da Central de Pós
Norma de aço adotada: ABNT NBR 14762: 2010
Aço estrutural: A-36
Escala: 1:100

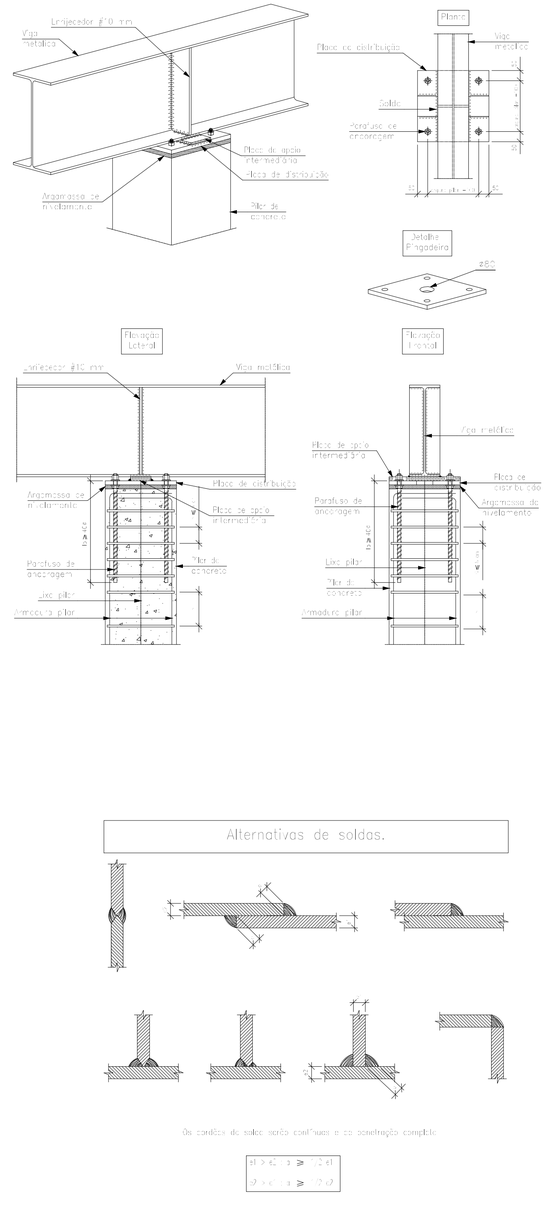
Parafusos de ancoragem.

Detalhe de ancoragem de parafuso através de porca

Apoio simples no extremo do vão.
Viga metálica sobre pilar de concreto sem continuidade.



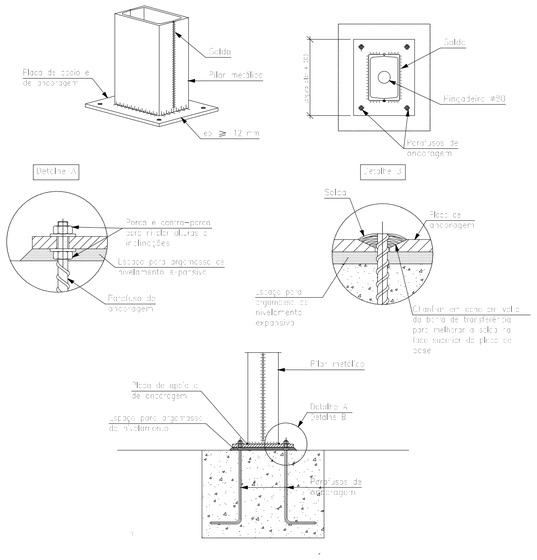
Apoio de viga metálica contínua sobre pilar de concreto.



Alternativas de soldas.

Os cordões de solda serão contínuos e de penetração completa

Arranque de pilar (2 UNP fechados) na fundação.
União articulada.

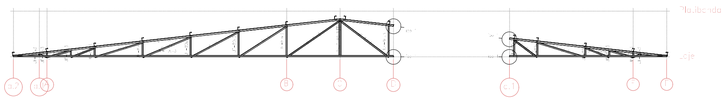


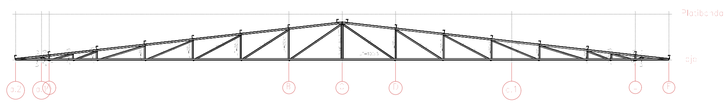
UENP
UNIVERSIDADE ESTADUAL DO NORTE DO PARANÁ

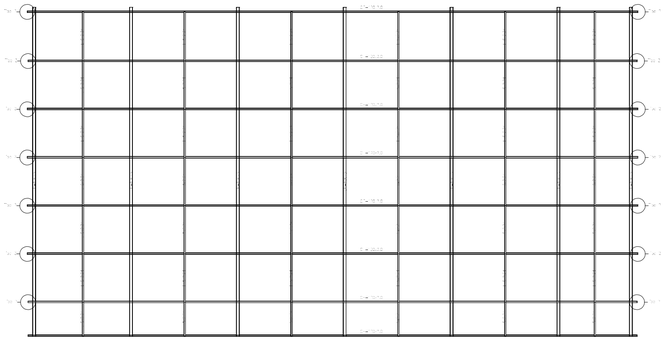
PROJETO	ESTRUTURAL - AC - COBERTURA METÁLICA
OBRA	CENTRAL DE PÓS GRADUAÇÃO - CJ
PROPRIETÁRIO	RESPONSÁVEL TÉCNICO
UNIVERSIDADE ESTADUAL DO NORTE DO PARANÁ - UENP CNPJ: 78.680.337/0001-62	MAICON HOCHSCHEIDT CREA-PR 174.274/D
DESENHO: MAICON	DATA: SETEMBRO/2026
ESCALA: INDICADA	PRANCHA: 3/3

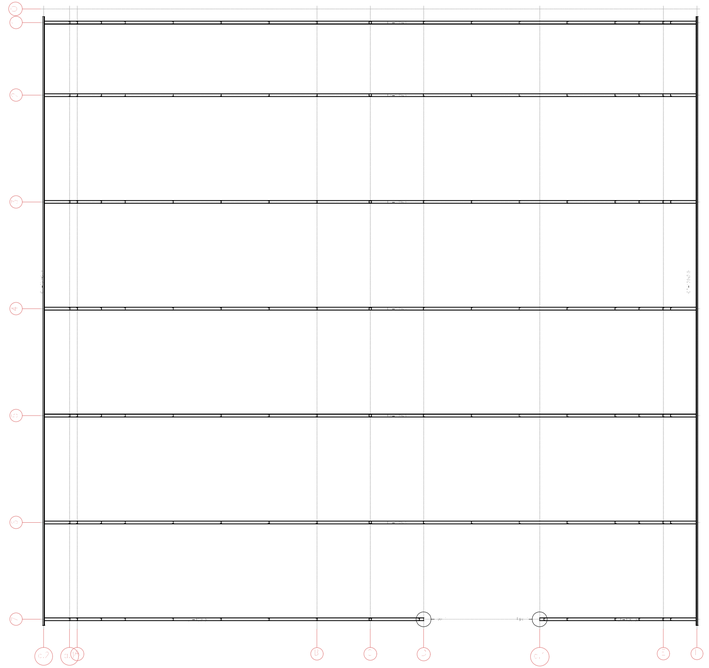
PROPAV
PRÓ-REITORIA DE PLANEJAMENTO E AVALIAÇÃO INSTITUCIONAL
SECRETARIA DE OBRAS

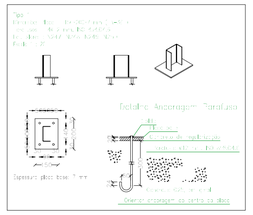
Assinatura Qualificada realizada por: **Ederson Marcos Sgarbi** em 18/09/2026 15:26. Assinatura Avançada realizada por: **Juliana Costa Rossitto (XXX.979.129-XX)** em 04/09/2026 08:11 Local: UENP/RTA/PROPAV/SECOBRAS, **Christopher Ramos Sfeir (XXX.945.859-XX)** em 04/09/2026 08:19 Local: UENP/RTA/PROPAV/SECOBRAS. Assinatura Simples realizada por: **Maicon Hochscheidt (XXX.348.319-XX)** em 04/09/2026 08:19 Local: UENP/RTA/PROPAV/SECOBRAS. Inserido ao protocolo **26.535.000-3** por: **Amanda Alves da Silva** em: 04/09/2026 08:08. Documento assinado nos termos do Art. 38 do Decreto Estadual nº 7304/2021. A autenticidade deste documento pode ser validada no endereço: **https://www.eprotocolo.pr.gov.br/spiweb/validarDocumento** com o código: **f62cfc10bd1be01526ef54d641b5bf5**

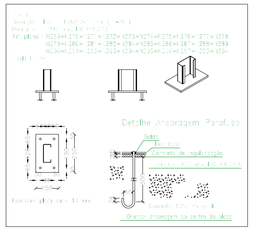


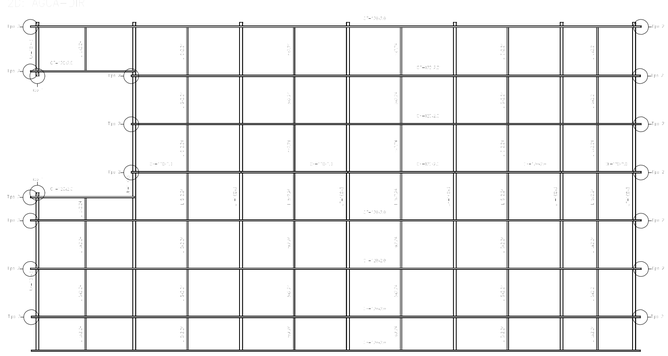


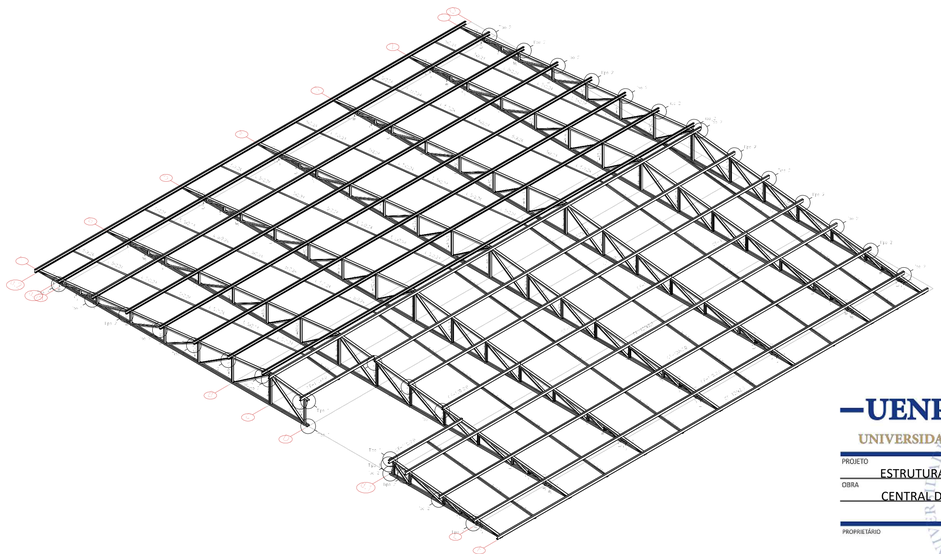












UENP
UNIVERSIDADE ESTADUAL DO NORTE DO PARANÁ

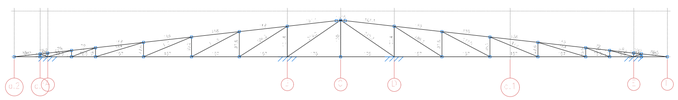
PROJETO			
OBRA	ESTRUTURAL - CMH - COBERTURA METÁLICA CENTRAL DE PÓS GRADUAÇÃO - CJ		
PROPRIETÁRIO	RESPONSÁVEL TÉCNICO		
UNIVERSIDADE ESTADUAL DO NORTE DO PARANÁ - UENP CNPJ: 78.680.360/0001-47	MAICON HOCHSCHEIDT CREA 2ª REGIÃO		
DESENHO	DATA	ESCALA	PRANCHA
MAICON	SETEMBRO/2026	INDICADA	1/3

PROPAV
PRÓ-REITORIA DE PLANEJAMENTO E AVALIAÇÃO INSTITUCIONAL
SECRETARIA DE OBRAS

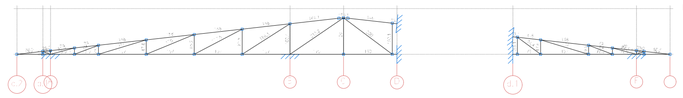
Assinatura Qualificada realizada por: **Ederson Marcos Sgarbi** em 18/09/2026 15:26. Assinatura Avançada realizada por: **Juliana Costa Rossitto (XXX.979.129-XX)** em 04/09/2026 08:11 Local: UENP/RTA/PROPAV/SECOBRAS, **Christopher Ramos Sfeir (XXX.945.859-XX)** em 04/09/2026 08:19 Local: UENP/RTA/PROPAV/SECOBRAS. Assinatura Simples realizada por: **Maicon Hochscheidt (XXX.348.319-XX)** em 04/09/2026 08:19 Local: UENP/RTA/PROPAV/SECOBRAS. Inserido ao protocolo **26.535.000-3** por: **Amanda Alves da Silva** em: 04/09/2026 08:08. Documento assinado nos termos do Art. 38 do Decreto Estadual nº 7304/2021. A autenticidade deste documento pode ser validada no endereço: **https://www.eprotocolo.pr.gov.br/spiweb/validarDocumento** com o código: **f62cfc10bd1be01526ef54d641b5bf5**

PROTOCOLO
Nº. 157
Mod. 6
INTEGRADO DOCUMENTAL

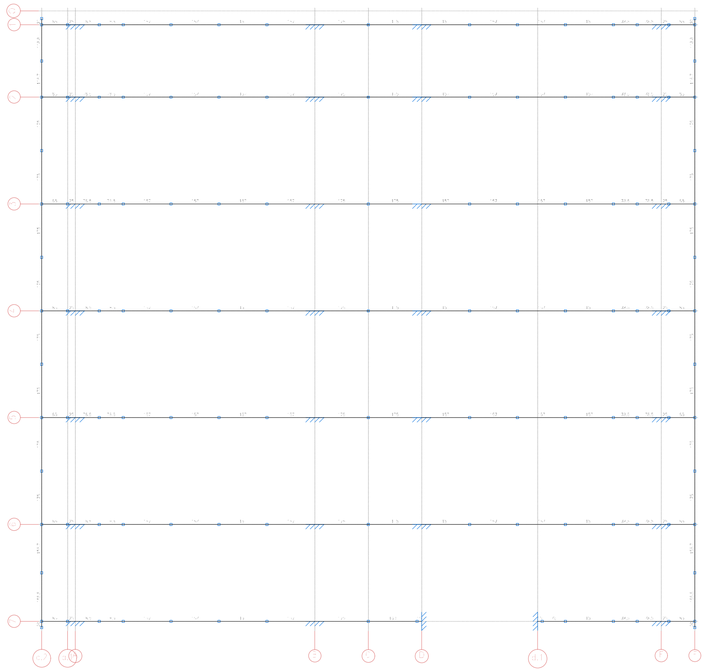
2- TERÇA



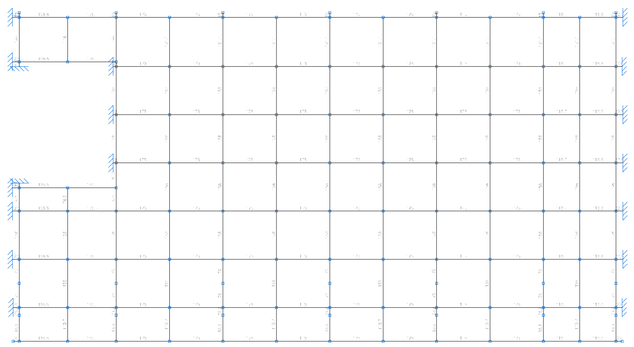
2A - TERÇA



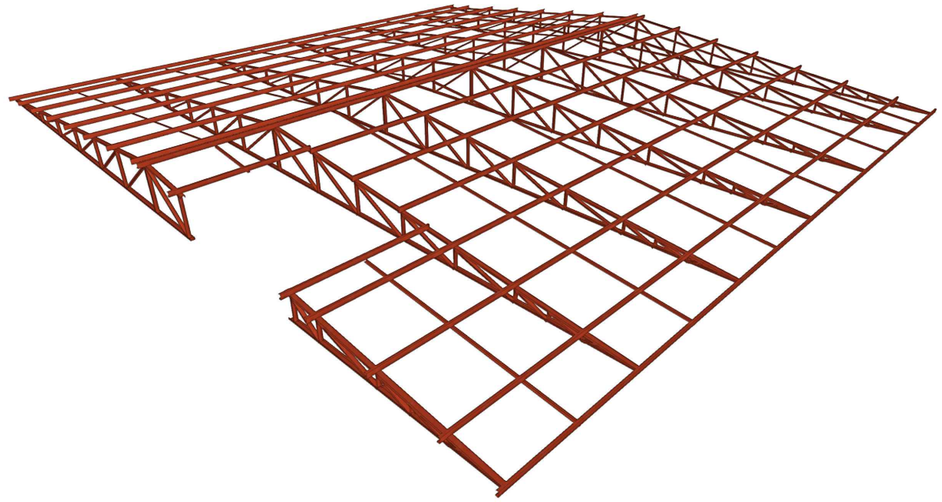
2B - Laje(z=0,00m)



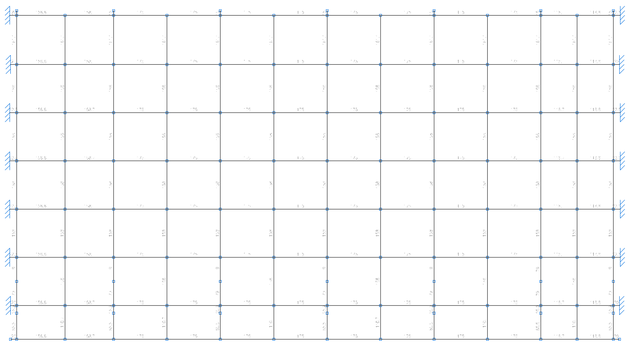
2C - Laje(z=3,00m)



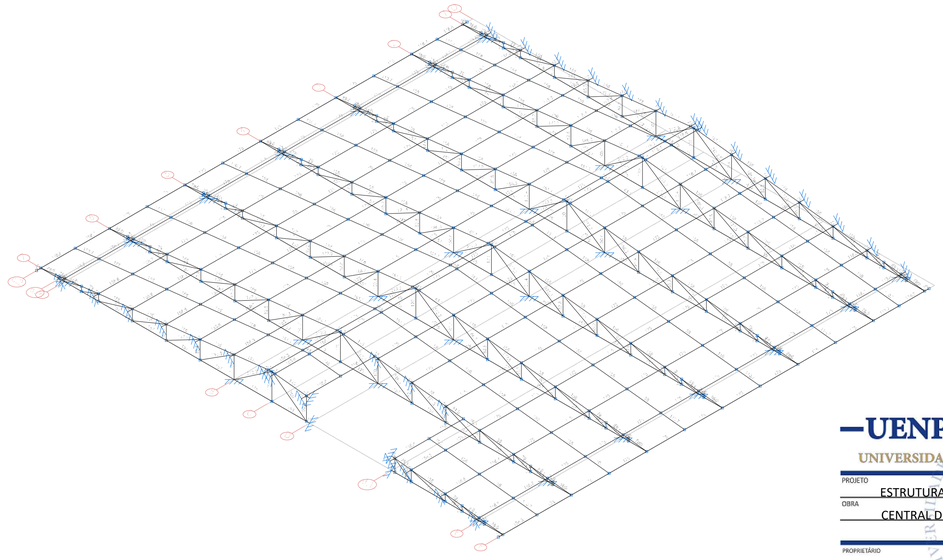
3D



2A - Laje(z=7,50)



3D



UNIVERSIDADE ESTADUAL DO NORTE DO PARANÁ

PROJETO
ESTRUTURAL - CMH - COBERTURA METÁLICA

OBRA
CENTRAL DE PÓS GRADUAÇÃO - CJ

PROPRIETÁRIO	RESPONSÁVEL TÉCNICO
UNIVERSIDADE ESTADUAL DO NORTE DO PARANÁ - UENP CNPJ: 78.680.450/0001-41	MAICON HOCHSCHEIDT ENG. CIVIL CREA - PR 089.737/D

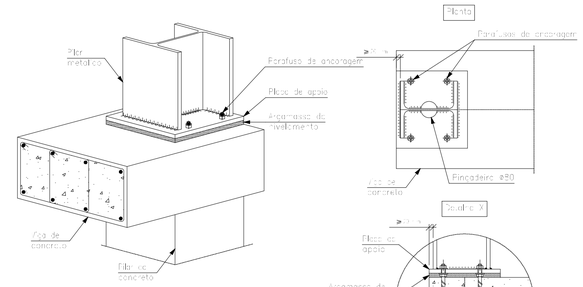
DESENHO	DATA	ESCALA	PRANCHA
MAICON	SETEMBRO/2026	INDICADA	2/3

PROPAV
PRÓ-REITORIA DE PLANEJAMENTO E AVALIAÇÃO INSTITUCIONAL
SECRETARIA DE OBRAS

Assinatura Qualificada realizada por: **Ederson Marcos Sgarbi** em 18/09/2026 15:26. Assinatura Avançada realizada por: **Juliana Costa Rossitto (XXX.979.129-XX)** em 04/09/2026 08:11 Local: UENP/RTA/PROPAV/SECOBRAS, **Christopher Ramos Sfeir (XXX.945.859-XX)** em 04/09/2026 08:19 Local: UENP/RTA/PROPAV/SECOBRAS. Assinatura Simples realizada por: **Maicon Hochscheidt (XXX.348.319-XX)** em 04/09/2026 08:19 Local: UENP/RTA/PROPAV/SECOBRAS. Inserido ao protocolo **26.535.000-3** por: **Amanda Alves da Silva** em: 04/09/2026 08:08. Documento assinado nos termos do Art. 38 do Decreto Estadual nº 7304/2021. A autenticidade deste documento pode ser validada no endereço: **https://www.eprotocolo.pr.gov.br/spiweb/validarDocumento** com o código: **f62cfc10bd1be01526ef54d641b5bf5**

PROTOCOLO
Nº. 158
Vto. 6
OPERACIONAL INTEGRADO DOCUMENTAL

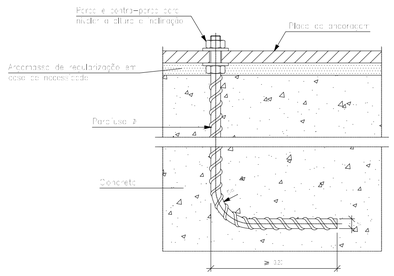
Ligação no extremo do vão de uma viga ou laje de concreto sobre pilar de concreto e pilar metálico superior.



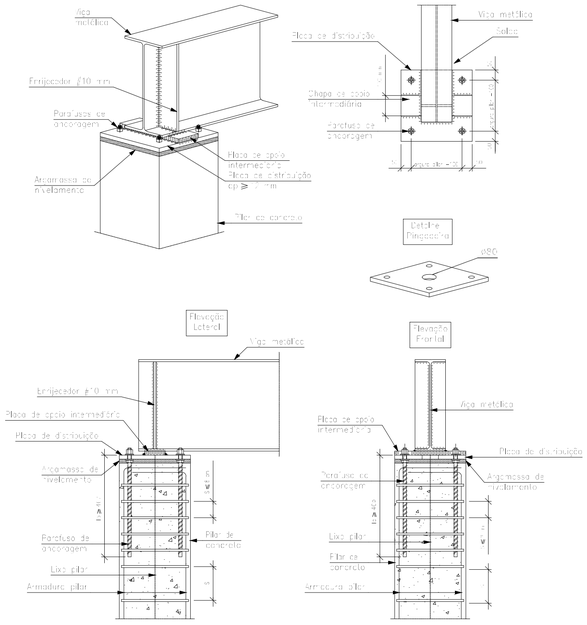
AC_Cobertura_Metálica_01
Cobertura Metálica do AC da Central de Pós
Norma de aço aplicada: ABNT NBR 14762: 2010
Aço estrutural: A-36
Escala: 1:100

Parafusos de ancoragem.

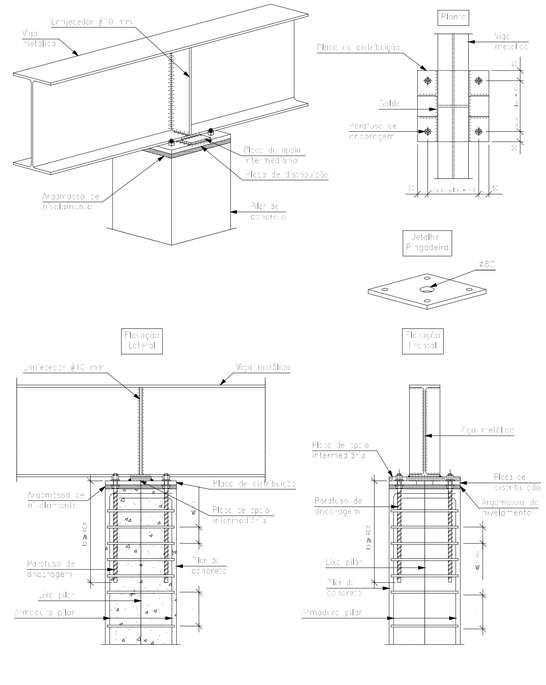
Detalhe de ancoragem de parafuso através de porca



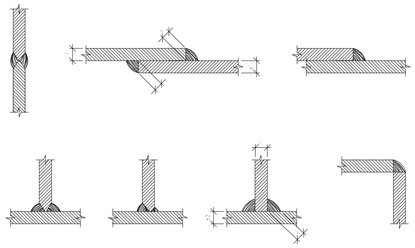
Apoio simples no extremo do vão.
Viga metálica sobre pilar de concreto sem continuidade.



Apoio de viga metálica contínua sobre pilar de concreto.

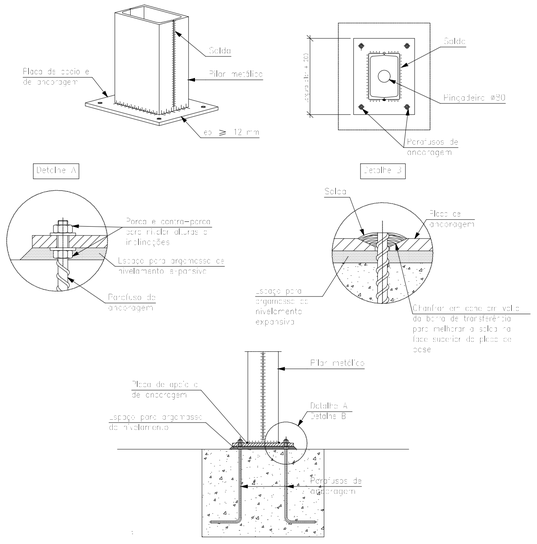


Alternativas de soldas.



Os cordões de solda serão contínuos e de penetração completa

Arranque de pilar (2 UNP fechados) na fundação.
União articulada.



UENP
UNIVERSIDADE ESTADUAL DO NORTE DO PARANÁ

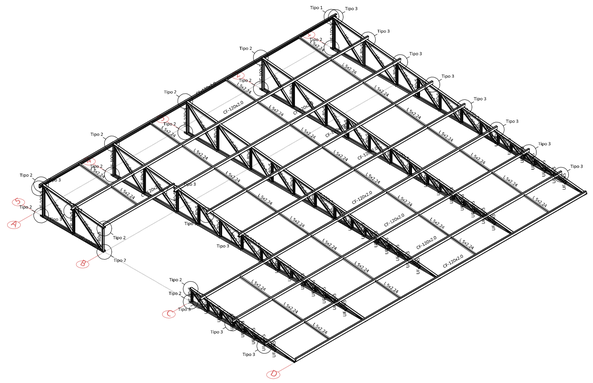
PROJETO	ESTRUTURAL - CMH - COBERTURA METÁLICA
OBRA	CENTRAL DE PÓS GRADUAÇÃO - CJ
PROPRIETÁRIO	RESPONSÁVEL TÉCNICO
UNIVERSIDADE ESTADUAL DO NORTE DO PARANÁ - UENP CNPJ: 78.680.337/0001-62	MAICON HOCHSCHEIDT CREA-PR 154.742/D
DESENHO: MAICON	DATA: SETEMBRO/2026
ESCALA: INDICADA	PRANCHA: 3/3

PROPAV
PRÓ-REITORIA DE PLANEJAMENTO E AVALIAÇÃO INSTITUCIONAL
SECRETARIA DE OBRAS

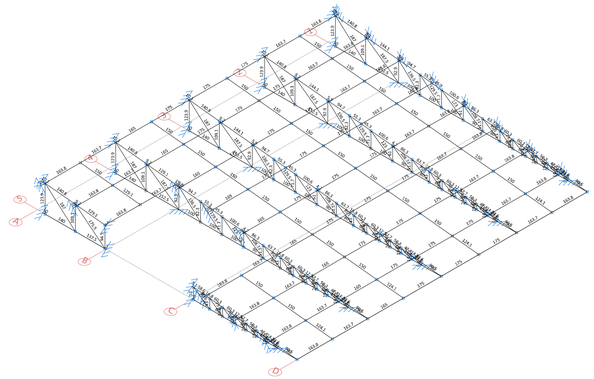
Assinatura Qualificada realizada por: **Ederson Marcos Sgarbi** em 18/09/2026 15:26. Assinatura Avançada realizada por: **Juliana Costa Rossitto (XXX.979.129-XX)** em 04/09/2026 08:11 Local: UENP/RTA/PROPAV/SECOBRAS, **Christopher Ramos Sfeir (XXX.945.859-XX)** em 04/09/2026 08:19 Local: UENP/RTA/PROPAV/SECOBRAS. Assinatura Simples realizada por: **Maicon Hochscheidt (XXX.348.319-XX)** em 04/09/2026 08:19 Local: UENP/RTA/PROPAV/SECOBRAS. Inserido ao protocolo **26.535.000-3** por: **Amanda Alves da Silva** em: 04/09/2026 08:08. Documento assinado nos termos do Art. 38 do Decreto Estadual nº 7304/2021. A autenticidade deste documento pode ser validada no endereço: **https://www.eprotocolo.pr.gov.br/spiweb/validarDocumento** com o código: **f62cfc10bd1be01526ef54d641b5bf5**

PROTOCOLO
Nº. 159
Mod. ...5
OFÍCIO INTERNO DOCUMENTAL

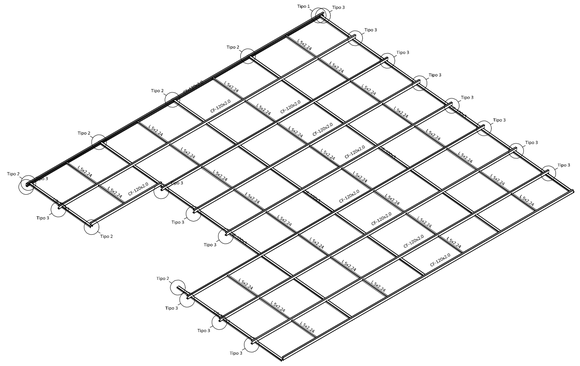
3D



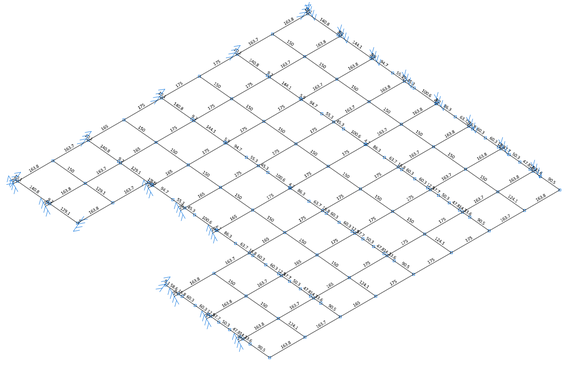
3D



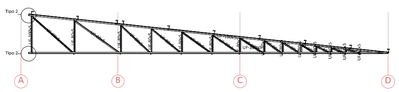
2D: ÁGUA



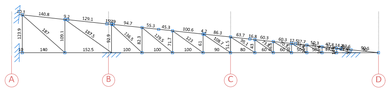
2D: ÁGUA



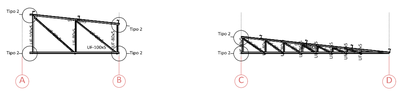
2D: FRENTE



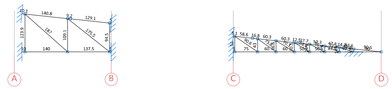
2D: FRENTE

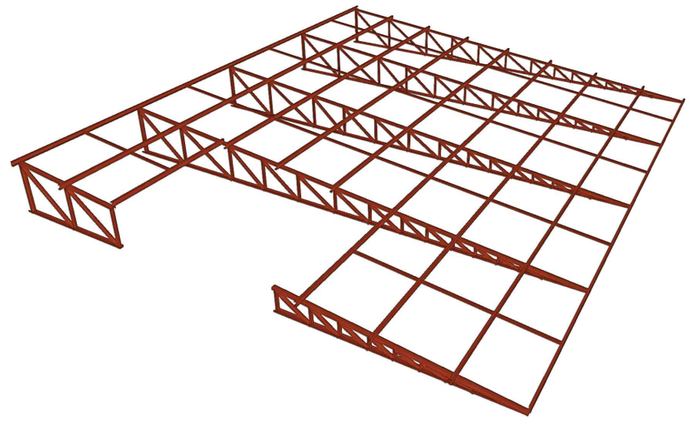


2D: FRENTE-CX



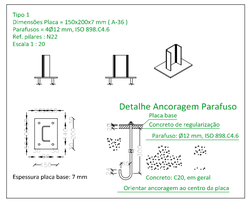
2D: FRENTE-CX

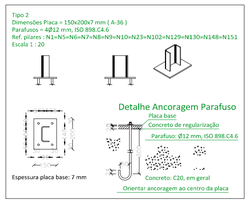


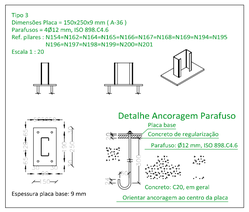


PPED_Cobertura_Metalica_v02
Norma de aço dobrado: ABNT NBR 14762: 2010
Aço dobrado: A-36
Escala: 1:100

PPED_Cobertura_Metalica_v02
Norma de aço dobrado: ABNT NBR 14762: 2010
Aço dobrado: A-36
Escala: 1:100







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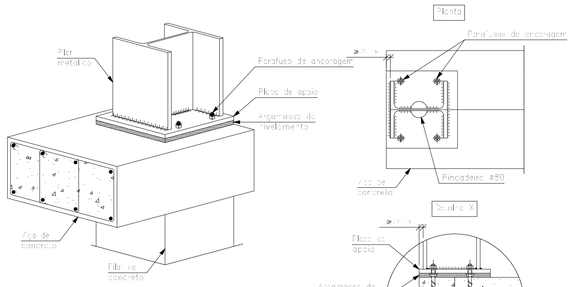
PROJETO	ESTRUTURAL - PPED - COBERTURA METÁLICA
OBRA	CENTRAL DE PÓS GRADUAÇÃO - CJ
PROPRIETÁRIO	UNIVERSIDADE ESTADUAL DO NORTE DO PARANÁ - UENP CNPJ: 08.895.169/0001-54
RESPONSÁVEL TÉCNICO	MAICON HOCHSCHEIDT ENG. CIVIL	CREA PR 189 134/D
DESENHO: MAICON	DATA: SETEMBRO/2026	ESCALA: INDICADA	PRANCHA: 1/2

PROPAV
PRÓ-REITORIA DE PLANEJAMENTO E AVALIAÇÃO INSTITUCIONAL
SECRETARIA DE OBRAS

Assinatura Qualificada realizada por: **Ederson Marcos Sgarbi** em 18/09/2026 15:26. Assinatura Avançada realizada por: **Juliana Costa Rossitto (XXX.979.129-XX)** em 04/09/2026 08:11 Local: UENP/RTA/PROPAV/SECOBRAS, **Christopher Ramos Sfeir (XXX.945.859-XX)** em 04/09/2026 08:19 Local: UENP/RTA/PROPAV/SECOBRAS. Assinatura Simples realizada por: **Maicon Hochscheidt (XXX.348.319-XX)** em 04/09/2026 08:19 Local: UENP/RTA/PROPAV/SECOBRAS. Inserido ao protocolo **26.535.000-3** por: **Amanda Alves da Silva** em: 04/09/2026 08:08. Documento assinado nos termos do Art. 38 do Decreto Estadual nº 7304/2021. A autenticidade deste documento pode ser validada no endereço: **https://www.eprotocolo.pr.gov.br/spiweb/validarDocumento** com o código: **f62cfc10bd1be01526ef54d641b5bf5**

PROTOCOLO
Nº. 160
Mov. 6
DOCUMENTO INTEGRANTE DO PROCESSO

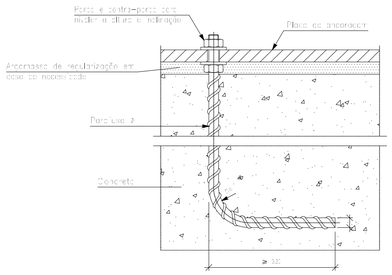
Ligação no extremo do vão de uma viga ou laje de concreto sobre pilar de concreto e pilar metálico superior.



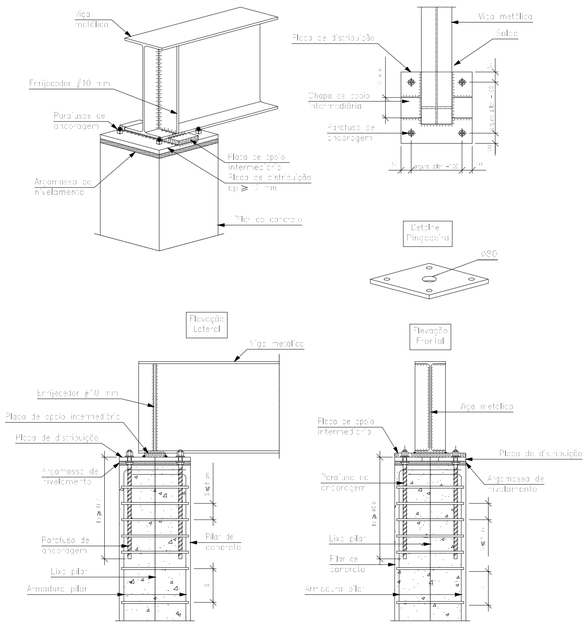
AC_Cobertura_Metálica_01
Cobertura Metálica da AC da Central de Pós
Norma de aço adotada: ABNT NBR 14762: 2010
Aço estrutural: A-36
Escala: 1:100

Parafusos de ancoragem.

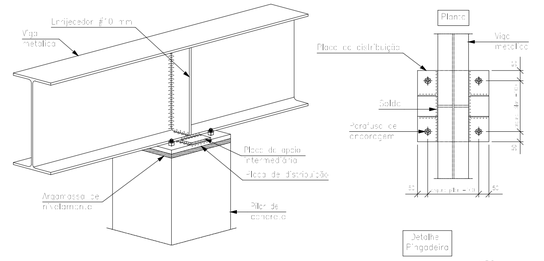
Detalhe de ancoragem de parafuso através de porca



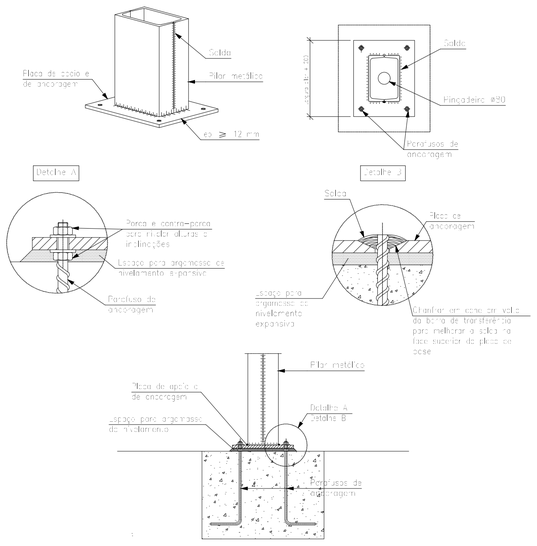
Apoio simples no extremo do vão.
Viga metálica sobre pilar de concreto sem continuidade.



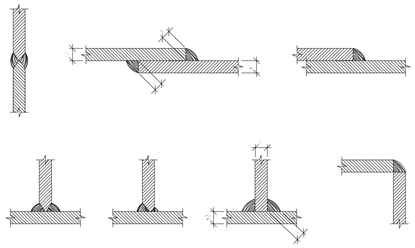
Apoio de viga metálica contínua sobre pilar de concreto.



Arranque de pilar (2 UNP fechados) na fundação.
União articulada.



Alternativas de soldas.



Os cordões de solda serão contínuos e de penetração completa

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PROPRIETÁRIO		RESPONSÁVEL TÉCNICO	
UNIVERSIDADE ESTADUAL DO NORTE DO PARANÁ - UENP CNPJ: 78.680.337/0001-62		MAICON HOCHSCHEIDT CREA-PR 174.274/D	
DESENHO	DATA	ESCALA	PRANCHA
MAICON	SETEMBRO/2026	INDICADA	2/2

PROPAV
PRÓ-REITORIA DE PLANEJAMENTO E AVALIAÇÃO INSTITUCIONAL
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ePROTOCOLO

PROTOCOLO INTEGRADO DO ESTADO
Fls. 160a
Mov. 6

Documento: **4.2PROJETOS_ESTRCOB.pdf**.

Assinatura Qualificada realizada por: **Ederson Marcos Sgarbi** em 18/09/2026 15:26.

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