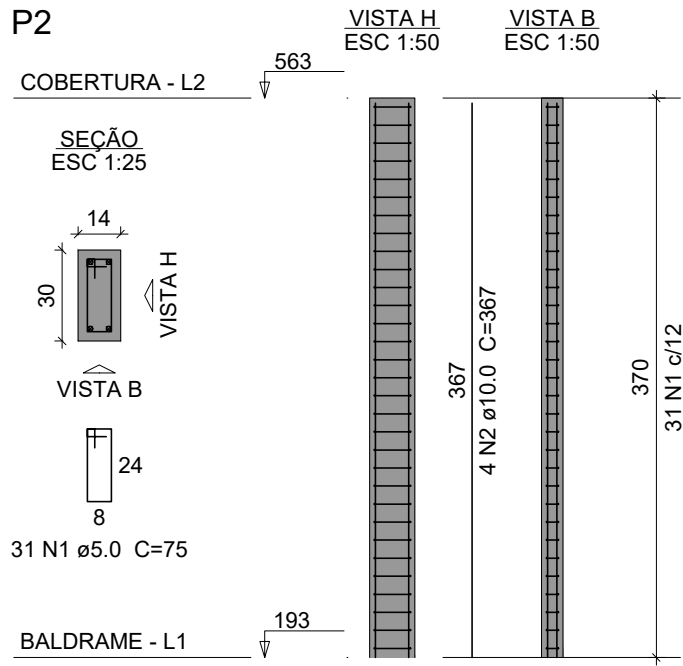
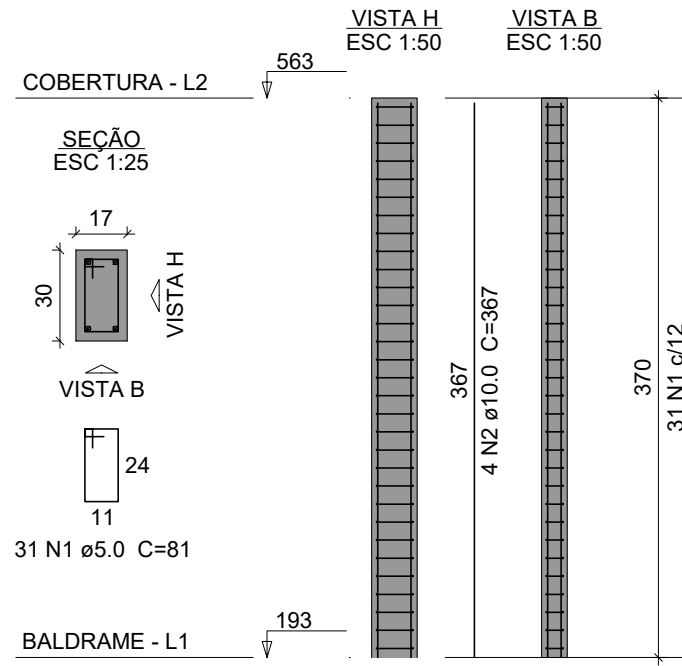
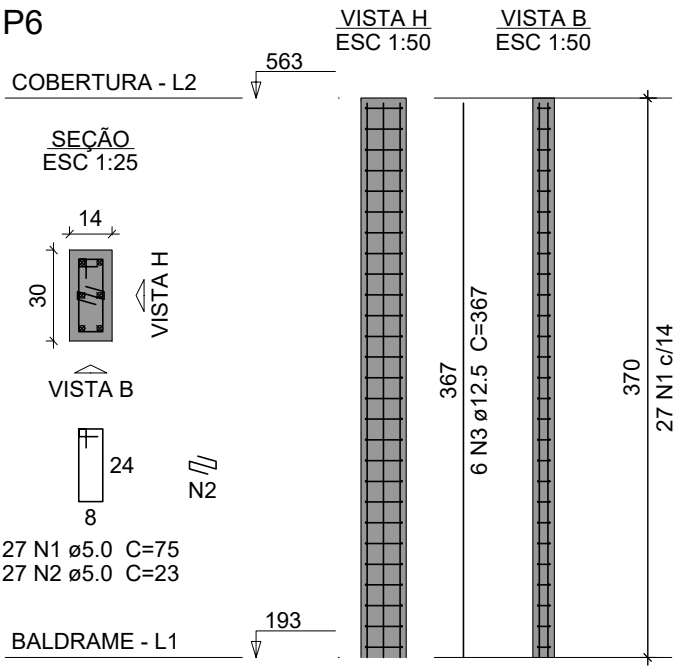
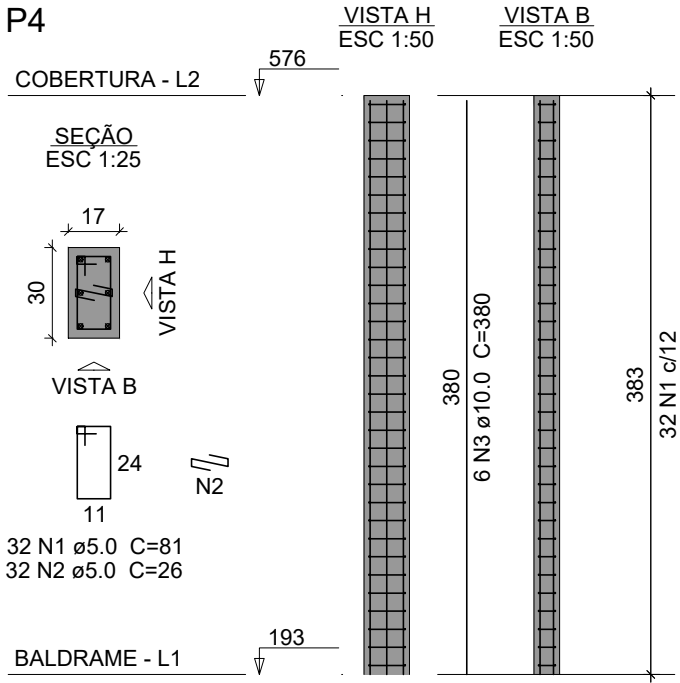
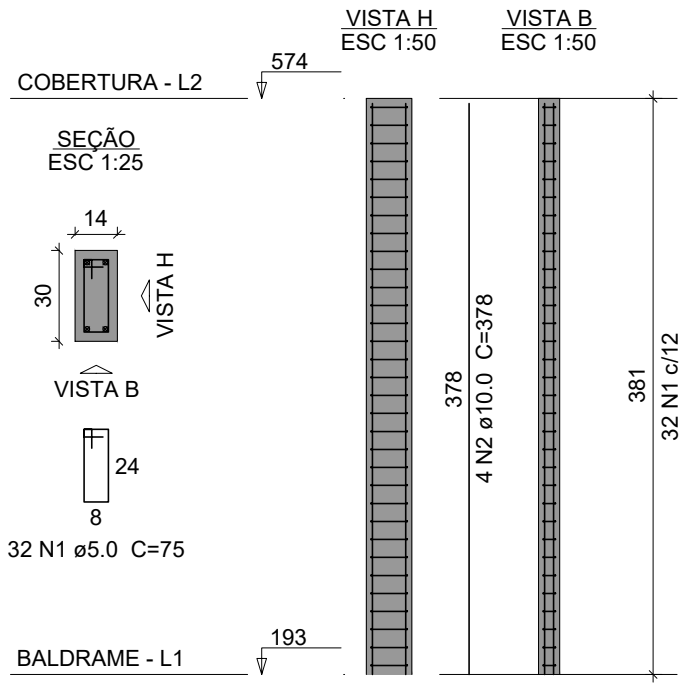


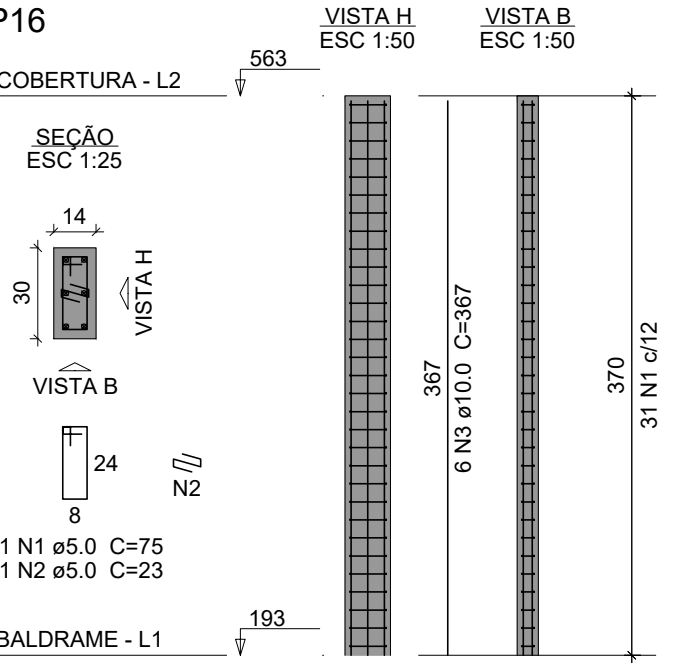
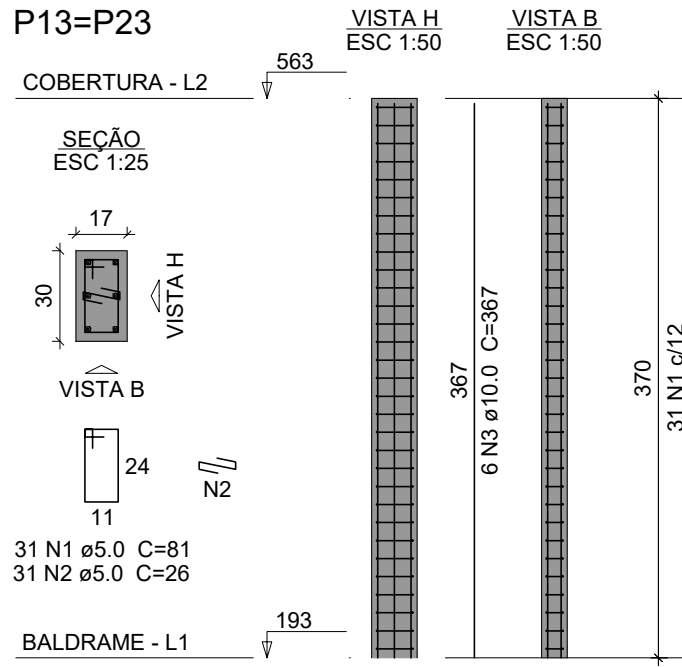
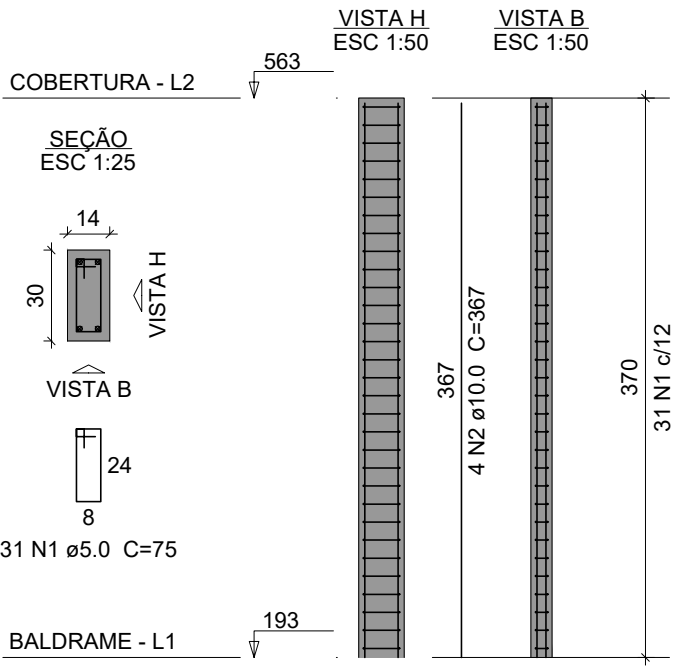
P1=P5=P12=P24=P25=
=P32=P38



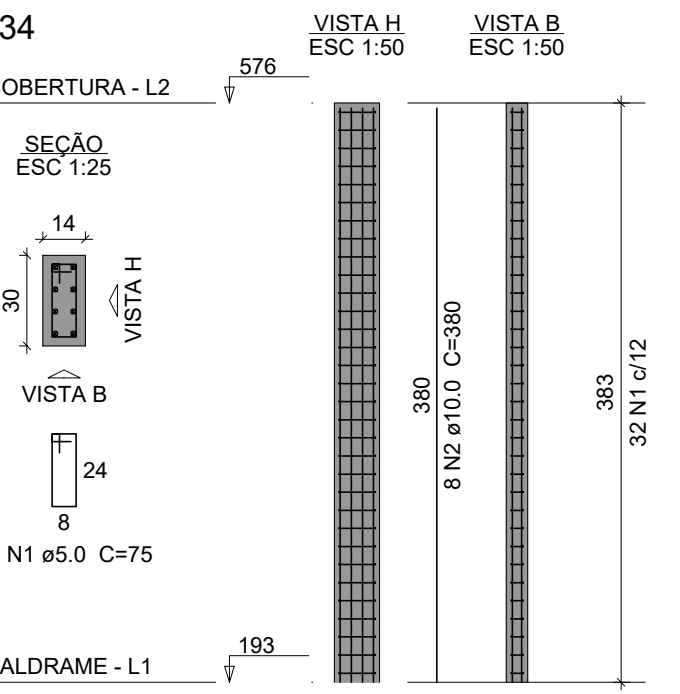
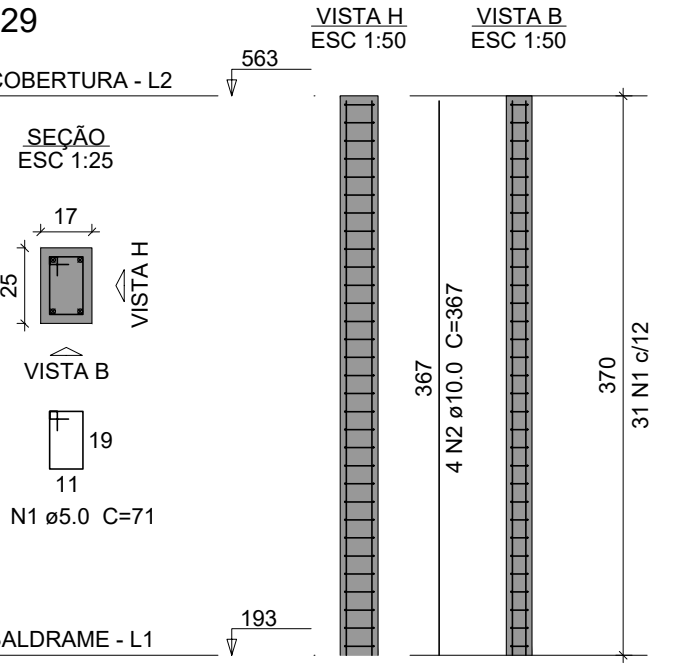
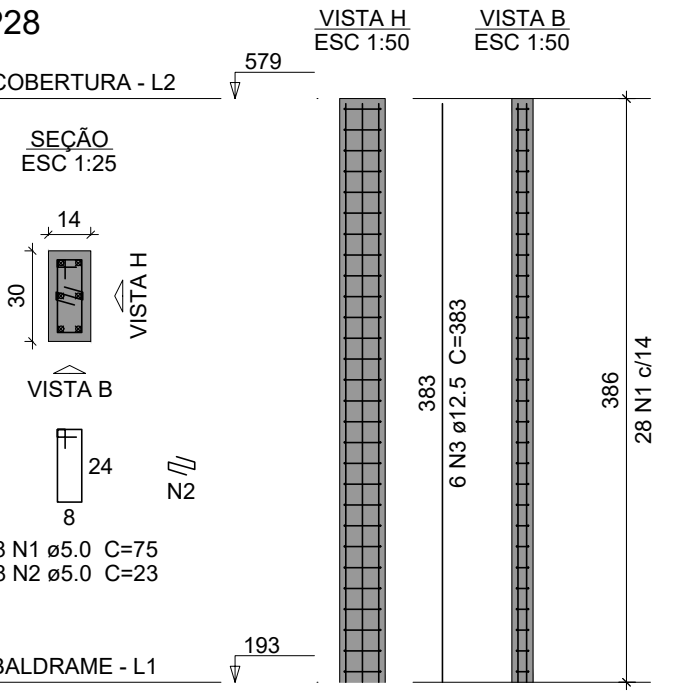
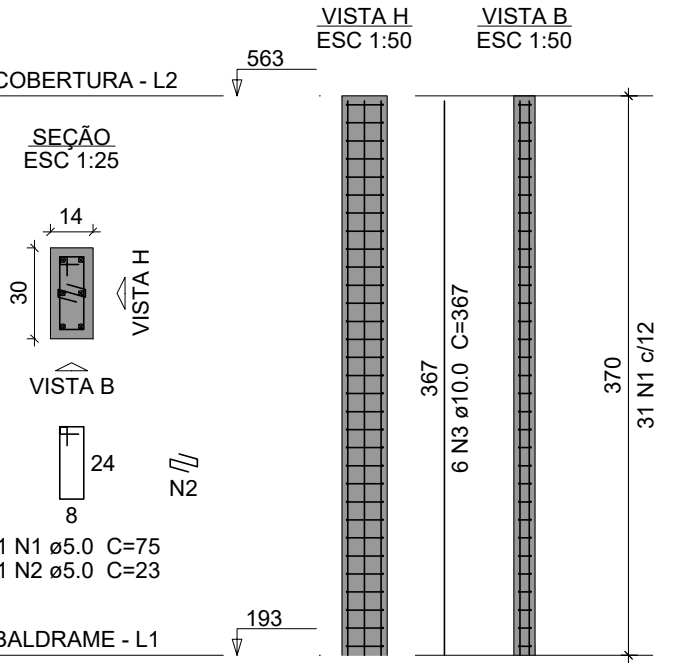
P3=P9=P11=P15=P27=
=P57



P7=P8=P10=P14=P17=
=P19=P20=P21=P22=P30=
=P31=P39=P40=P44=P48=
=P49=P50=P51=P52=P54=
=P55=P56=P58



P18=P26=P33=P43



Relação do aço

ELEMENTO	AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
COBERTURA						
7xP1	CA60	1	5.0	217	81	17577
	CA50	2	10.0	28	367	10276
P2	CA60	1	5.0	31	75	2325
	CA50	2	10.0	4	367	1468
6xP3	CA60	1	5.0	192	75	14400
	CA50	2	10.0	24	378	9072
P4	CA60	1	5.0	32	81	2592
	CA60	2	5.0	32	26	832
	CA50	3	10.0	6	380	2280
P6	CA60	1	5.0	27	75	2025
	CA60	2	5.0	27	23	621
	CA50	3	12.5	6	367	2202
23xP7	CA60	1	5.0	713	75	53475
	CA50	2	10.0	92	367	33764
2xP13	CA60	1	5.0	62	81	5022
	CA50	2	5.0	62	26	1612
	CA50	3	10.0	12	367	4404
P16	CA60	1	5.0	31	75	2325
	CA60	2	5.0	31	23	713
	CA50	3	10.0	6	367	2202
4xP18	CA60	1	5.0	124	75	9300
	CA60	2	5.0	124	23	2852
	CA50	3	10.0	24	367	8808
P28	CA60	1	5.0	28	75	2100
	CA60	2	5.0	28	23	644
	CA50	3	12.5	6	383	2298
P29	CA60	1	5.0	31	71	2201
	CA50	2	10.0	4	367	1468
P34	CA60	1	5.0	32	75	2400
	CA50	2	10.0	8	390	3040
P35	CA60	1	5.0	27	75	2025
	CA60	2	5.0	27	23	621
	CA50	3	12.5	6	367	2202
P36	CA60	1	5.0	32	75	2400
	CA60	2	5.0	32	23	736
	CA50	3	10.0	6	378	2268
P37	CA60	1	5.0	31	81	2511
	CA50	2	10.0	6	367	2202
P41	CA60	1	5.0	25	81	2025
	CA50	2	12.5	6	367	2202
P42	CA60	1	5.0	31	75	2325
	CA50	2	10.0	8	367	2936
P53	CA60	1	5.0	25	91	2275
	CA60	2	5.0	25	28	650
	CA50	3	12.5	6	367	2202
ENTRADA						
P45	CA60	1	5.0	35	81	2835
	CA50	2	10.0	8	417	3336
2xP46	CA60	1	5.0	70	75	5250
	CA50	2	10.0	8	417	3336
P47	CA60	1	5.0	28	81	2268
	CA50	2	12.5	4	417	1668

Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	10.0	908.6	616.2
	12.5	127.8	135.4
CA60	5.0	1489.4	252.5
PESO TOTAL (kg)			
CA50	751.6		
CA60	252.5		

Volume de concreto (C-25) = 9.85 m³
Área de forma = 198.53 m²

PROJETO ESTRUTURAL

OBRA: PROMOTORIAS DE JUSTIÇA DE TOCANTINÓPOLIS

ENDEREÇO: RUA FLORIANO SANTOS, QUADRA 18, LOTE 02, TOCANTINÓPOLIS-TO

PROPRIETÁRIO: PROCURADORIA-GERAL DE JUSTIÇA - ESTADO DO TOCANTINS

ABEL ANDRADE LEAL JÚNIOR
PROCURADOR-GERAL DE JUSTIÇA - ESTADO DO TOCANTINS

AUTOR DO PROJETO: RENATO ANTUNES MAGALHÃES
ENG. CIVIL - CREA: 308322-D/TO

RESPONSÁVEL TÉCNICO:

CONTEUDO: PLANTA DE LOCAÇÃO.

ÁREA TOTAL CONSTRUÍDA: 1.174,15 m²

PRANCHA:

REVISÃO: 00

01/12

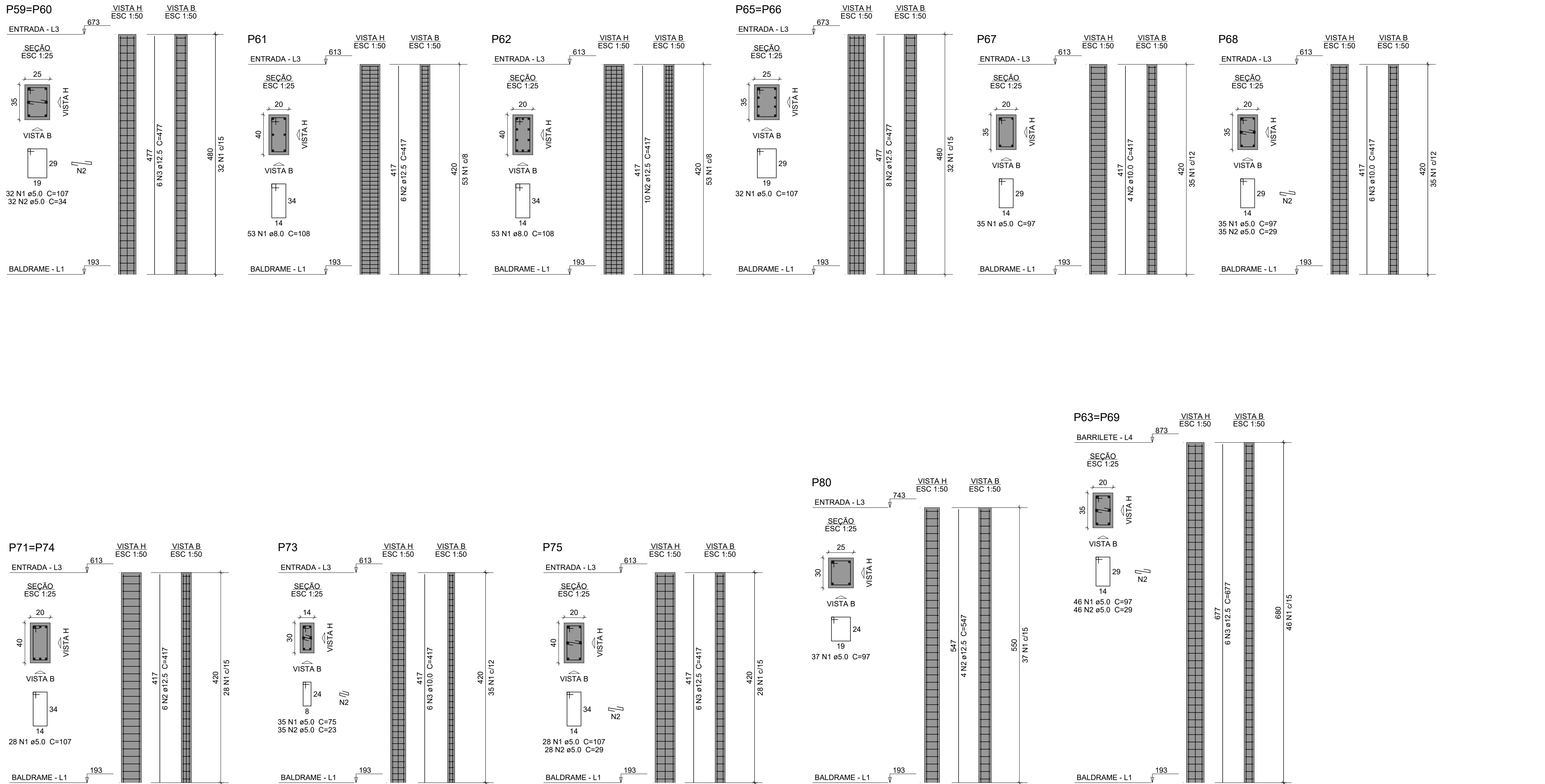
ESCALA: INDICADA

DATA: SETEMBRO 2025



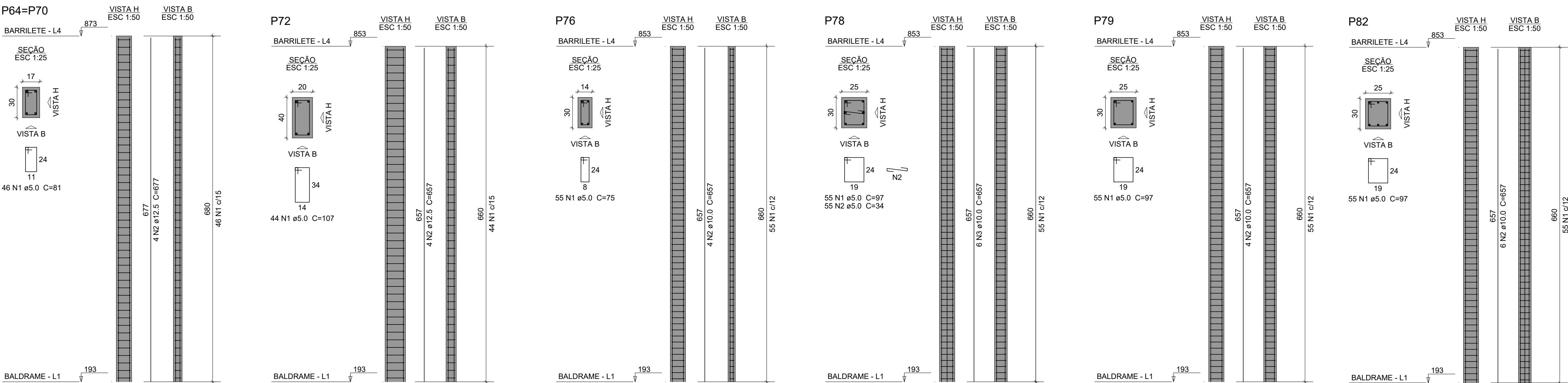
MINISTÉRIO PÚBLICO
ESTADO DO TOCANTINS

PROCURADORIA-GERAL DE JUSTIÇA



Relação do aço						
ELEMENTO	AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
BARRILETE 2xP63	CA60	1	5.0	92	97	8924
	CA60	2	5.0	92	29	2668
	CA50	3	12.5	12	677	8124
2xP64	CA60	1	5.0	92	81	7452
	CA50	2	12.5	8	677	5416
P72	CA60	1	5.0	44	107	4708
	CA50	2	12.5	4	657	2628
P76	CA60	1	5.0	55	75	4125
	CA50	2	10.0	4	657	2628
P78	CA60	1	5.0	55	97	5335
	CA60	2	5.0	55	34	1870
P79	CA50	3	10.0	6	657	3942
	CA60	1	5.0	55	97	5335
P82	CA50	2	10.0	4	657	2628
	CA60	1	5.0	55	97	5335
ENTRADA 2xP59	CA60	1	5.0	64	107	6848
	CA60	2	5.0	64	34	2176
P61	CA50	3	12.5	12	477	5724
	CA50	1	3.0	53	108	5724
P62	CA50	2	12.5	6	417	2502
	CA60	1	8.0	53	108	5724
2xP65	CA50	2	12.5	10	417	4170
	CA60	1	5.0	64	107	6848
P67	CA50	2	12.5	16	477	7632
	CA60	1	5.0	35	97	3395
P68	CA50	2	10.0	4	417	1668
	CA60	1	5.0	35	97	3395
2xP71	CA60	2	5.0	35	29	1015
	CA50	3	10.0	6	417	2502
P73	CA60	1	5.0	56	107	5992
	CA50	2	12.5	12	417	5004
P75	CA60	1	5.0	35	75	2625
	CA60	2	5.0	35	23	805
P77	CA50	3	10.0	6	417	2502
	CA60	1	5.0	28	107	2996
P80	CA60	2	5.0	28	29	812
	CA50	3	12.5	6	417	2502
P82	CA60	1	5.0	37	97	3589
	CA50	2	12.5	4	547	2188

Resumo do aço			
AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	8.0	114.5	49.7
	10.0	198.2	134.4
	12.5	458.9	486.3
CA60	5.0	862.5	146.2
PESO TOTAL (kg)			
CA50	670.3		
CA60	146.2		
Volume de concreto (C-25) = 8.47 m³			
Área de forma = 130.48 m²			



PROJETO ESTRUTURAL

OBRA: PROMOTORIAS DE JUSTIÇA DE TOCANTINÓPOLIS

ENDEREÇO: RUA FLORIANO SANTOS, QUADRA 18, LOTE 02, TOCANTINÓPOLIS-TO

PROPRIETÁRIO: PROCURADORIA-GERAL DE JUSTIÇA – ESTADO DO TOCANTINS

ABEL ANDRADE LEAL JÚNIOR
PROCURADOR-GERAL DE JUSTIÇA – ESTADO DO TOCANTINS

AUTOR DO PROJETO: RENATO ANTUNES MAGALHÃES
ENG. CIVIL – CREA: 308322-D/TO

RESPONSÁVEL TÉCNICO:

CONTEUDO: PLANTA DE CARGA.

ÁREA TOTAL CONSTRUÍDA: 1.174,15 m²

PRANCHA: 02/12

REVISÃO: 00

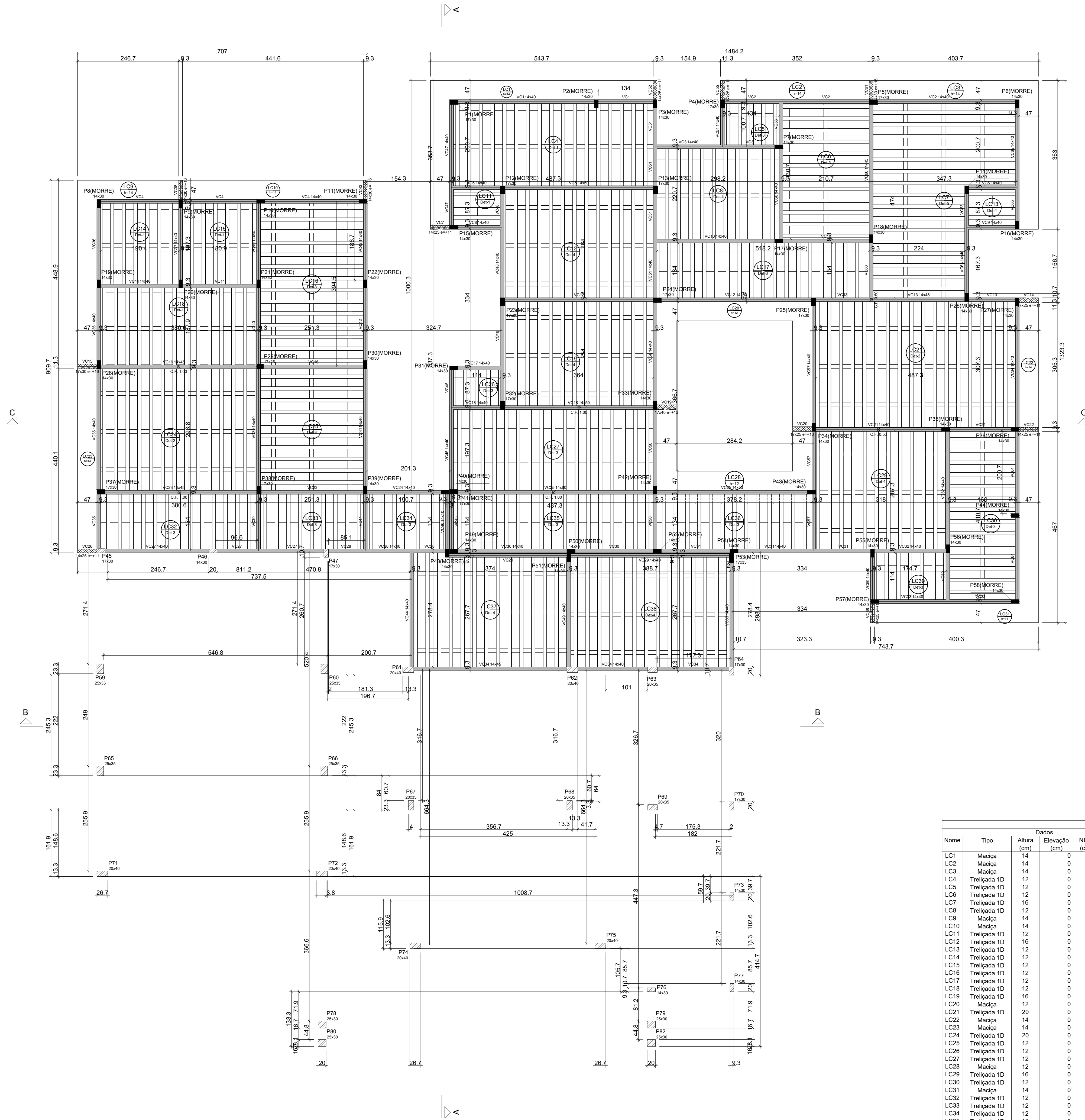
ESCALA: INDICADA

DATA: SETEMBRO 2025



MINISTÉRIO PÚBLICO
ESTADO DO TOCANTINS

PROCURADORIA-GERAL DE JUSTIÇA



Viga

Viga chata ou invertida

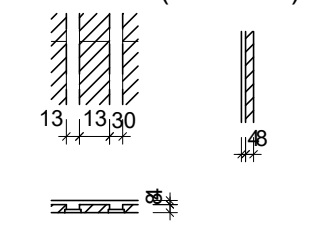
Pilar que morre

Pilar que passa

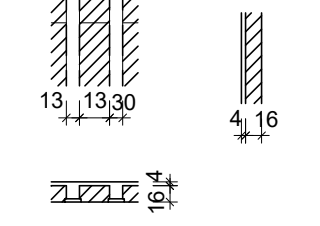
Legenda das vigas e paredes

Legenda dos pilares

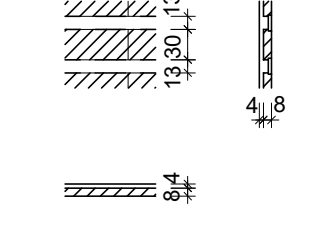
Detalhe 1 (esc. 1:75)



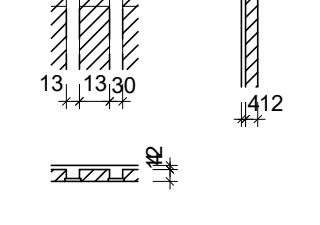
Detalhe 2 (esc. 1:75)



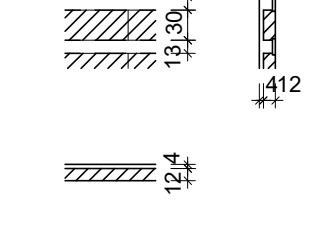
Detalhe 3 (esc. 1:75)



Detalhe 4 (esc. 1:75)



Detalhe 5 (esc. 1:75)



Vigas				Pilares			
Nome	Seção (cm)	Elevação (cm)	Nível (cm)	Nome	Seção (cm)	Elevação (cm)	Nível (cm)
VC1	14x40	0	563	P1	17x30	0	563
VC2	14x40	0	563	P2	17x30	0	563
VC3	14x40	0	563	P3	14x30	11	574
VC4	14x40	0	563	P4	17x30	13	576
VC5	14x40	0	563	P5	17x30	0	563
VC6	14x40	0	563	P6	14x30	0	563
VC7	14x25	0	563	P7	14x30	0	563
VC8	14x40	0	563	P8	14x30	0	563
VC9	14x40	0	563	P9	14x30	11	574
VC10	14x40	0	563	P10	14x30	0	563
VC11	14x40	0	563	P11	14x30	11	574
VC12	14x50	0	563	P12	17x30	0	563
VC13	14x45	0	563	P13	17x30	0	563
VC14	17x25	11	574	P14	14x30	0	563
VC15	17x30	16	579	P15	14x30	11	574
VC16	14x45	0	563	P16	14x30	0	563
VC17	14x40	0	563	P17	14x30	0	563
VC18	14x40	0	563	P18	14x30	0	563
VC19	14x50	0	563	P19	14x30	0	563
VC20	17x25	13	576	P20	20x30	0	563
VC21	14x40	0	563	P21	14x30	0	563
VC22	14x25	11	574	P22	17x30	0	563
VC23	14x45	0	563	P23	17x30	0	563
VC24	14x40	0	563	P24	17x30	0	563
VC25	14x60	0	563	P25	17x30	0	563
VC26	14x25	11	574	P26	14x30	0	563
VC27	14x40	0	563	P27	14x30	11	574
VC28	14x40	0	563	P28	14x30	16	579
VC29	14x40	0	563	P29	17x25	0	563
VC30	14x40	0	563	P30	14x30	0	563
VC31	14x40	0	563	P31	14x30	0	563
VC32	14x40	0	563	P32	17x30	0	563
VC33	14x40	0	563	P33	14x30	0	563
VC34	14x45	0	563	P34	14x30	13	576
VC35	14x40	0	563	P35	14x30	0	563
VC36	14x40	0	563	P36	14x30	0	563
VC37	14x40	0	563	P37	17x30	0	563
VC38	14x30	16	579	P38	17x30	0	563
VC39	14x40	0	563	P39	14x30	0	563
VC40	14x40	0	563	P40	14x30	0	563
VC41	14x40	0	563	P41	17x30	0	563
VC42	14x40	0	563	P42	14x30	0	563
VC43	14x30	16	579	P43	14x30	0	563
VC44	14x40	0	563	P44	14x30	0	563
VC45	14x40	0	563	P45	17x30	0	563
VC46	14x40	0	563	P46	14x30	0	563
VC47	14x40	0	563	P47	17x30	0	563
VC48	14x40	0	563	P48	14x30	0	563
VC49	14x40	0	563	P49	14x30	0	563
VC50	14x40	0	563	P50	14x30	0	563
VC51	14x40	0	563	P51	14x30	0	563
VC52	14x25	11	574	P52	14x30	0	563
VC53	14x40	0	563	P53	17x35	0	563
VC54	14x40	0	563	P54	14x30	0	563
VC55	17x25	11	574	P55	14x30	0	563
VC56	14x40	0	563	P56	14x30	0	563
VC57	14x40	0	563	P57	14x30	11	574
VC58	14x25	11	574	P58	14x30	0	563
VC59	14x40	0	563	P59	25x35	60	623
VC60	14x45	0	563	P60	25x35	60	623
VC61	14x30	16	579	P61	20x40	0	563
VC62	14x40	0	563	P62	20x40	0	563
VC63	14x40	0	563	P63	20x35	0	563
VC64	14x40	0	563	P64	17x30	0	563
VC65	14x40	0	563	P65	25x35	60	623
				P66	25x35	60	623
				P67	20x35	0	563
				P68	20x35	0	563
				P69	20x35	0	563
				P70	17x30	0	563
				P71	20x40	0	563
				P72	20x40	-20	543
				P73	14x30	0	563
				P74	20x40	0	563
				P75	20x40	0	563
				P76	14x30	-20	543
				P77	14x30	0	563
				P78	25x30	-20	543
				P79	25x30	-20	543
				P80	25x30	130	693
				P82	25x30	-20	543

Características dos materiais			
fck	Ecs	Dimensões (cm)	
(kgf/cm²)	(kgf/cm²)	hb	by
250	241500	8	125
Dimensão máxima do agregado = 19 mm			

Blocos de enchimento						
Detalhe	Tipo	Nome	Dimensões(cm)			Quantidade
			hb	bx	by	
1/3	EPS Unidirecional	B8/30/125/7.5	8	30	125	596
2	EPS Unidirecional	B16/30/125/7.5	16	30	125	120
4/5	EPS Unidirecional	B12/30/125/7.5	12	30	125	310

Lajes								
Nome	Tipo	Dados			Sobrecarga (kgf/m²)			
		Altura (cm)	Elevação (cm)	Nível (cm)	Peso próprio (kgf/m²)	Adicional	Acidental	Localizada
LC1	Maciça	14	0	563	350	157	150	-
LC2	Maciça	14	0	563	350	157	150	-
LC3	Maciça	14	0	563	350	157	150	-
LC4	Trelçada 1D	12	0	563	169	157	150	-
LC5	Trelçada 1D	12	0	563	162	157	150	-
LC6	Trelçada 1D	12	0	563	169	157	150	-
LC7	Trelçada 1D	16	0	563	215	157	150	-
LC8	Trelçada 1D	12	0	563	169	157	150	-
LC9	Maciça	14	0	563	350	157	150	-
LC10	Maciça	14	0	563	350	157	150	-
LC11	Trelçada 1D	12	0	563	162	157	150	-
LC12	Trelçada 1D	16	0	563	215	157	150	-
LC13	Trelçada 1D	12	0	563	162	157	150	-
LC14	Trelçada 1D	12	0	563	169	157	150	-
LC15	Trelçada 1D	12	0	563	169	157	150	-
LC16	Trelçada 1D	12	0	563	176	157	150	-
LC17	Trelçada 1D	12	0	563	162	157	150	-
LC18	Trelçada 1D	12	0	563	169	157	150	-
LC19	Trelçada 1D	16	0	563	215	157	150	-
LC20	Maciça	12	0	563	300	157	150	-
LC21	Trelçada 1D	20	0	563	253	157	150	-
LC22	Maciça	14	0	563	350	157	150	-
LC23	Maciça	14	0	563	350	157	150	-
LC24	Trelçada 1D	20	0	563	253	157	150	-
LC25	Trelçada 1D	12	0	563	176	157	150	-
LC26	Trelçada 1D	12	0	563	162	157	150	-
LC27	Trelçada 1D	12	0	563	162	157	150	-
LC28	Maciça	12	0	563	300	157	150	-
LC29	Trelçada 1D	16	0	563	215	157	150	-
LC30	Trelçada 1D	12	0	563	169	157	150	-
LC31	Maciça	14	0	563	350	157	150	-
LC32	Trelçada 1D	12	0	563	162	157	150	-
LC33	Trelçada 1D	12	0	563	162	157	150	-
LC34	Trelçada 1D	12	0	563	162	157	150	-
LC35	Trelçada 1D	12	0	563	162	157	150	-
LC36	Trelçada 1D	12	0	563	162	157	150	-
LC37	Trelçada 1D	16	0	563	215	157	150	-
LC38	Trelçada 1D	16	0	563	215	157	150	-
LC39	Trelçada 1D	12	0	563	162	157	150	-

Forma do pavimento COBERTURA (Nível 563)

PROJETO ESTRUTURAL

OBRA: PROMOTORIAS DE JUSTIÇA DE TOCANTINÓPOLIS

ENDEREÇO: RUA FLORIANO SANTOS, QUADRA 18, LOTE 02, TOCANTINÓPOLIS-TO

PROPRIETÁRIO: PROCURADORIA-GERAL DE JUSTIÇA - ESTADO DO TOCANTINS

ABEL ANDRADE LEAL JÚNIOR
PROCURADOR-GERAL DE JUSTIÇA - ESTADO DO TOCANTINS

AUTOR DO PROJETO: RENATO ANTUNES MAGALHÃES
ENG. CIVIL - CREA: 308322-D/TO

RESPONSÁVEL TÉCNICO:

CONTEÚDO: Projeto e detalhamento das estacas.
- Lista de materiais.

ÁREA TOTAL CONSTRUÍDA: 1.174,15 m²

REVISÃO: 00

PRANCHA: 03/12

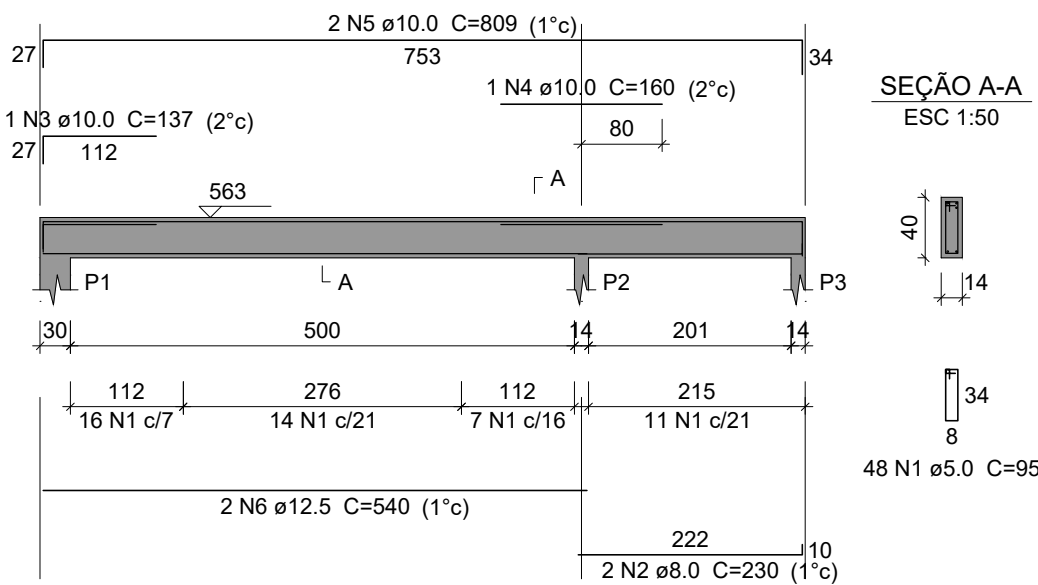
ESCALA: INDICADA

DATA: SETEMBRO 2025


MINISTÉRIO PÚBLICO
ESTADO DO TOCANTINS
PROCURADORIA-GERAL DE JUSTIÇA

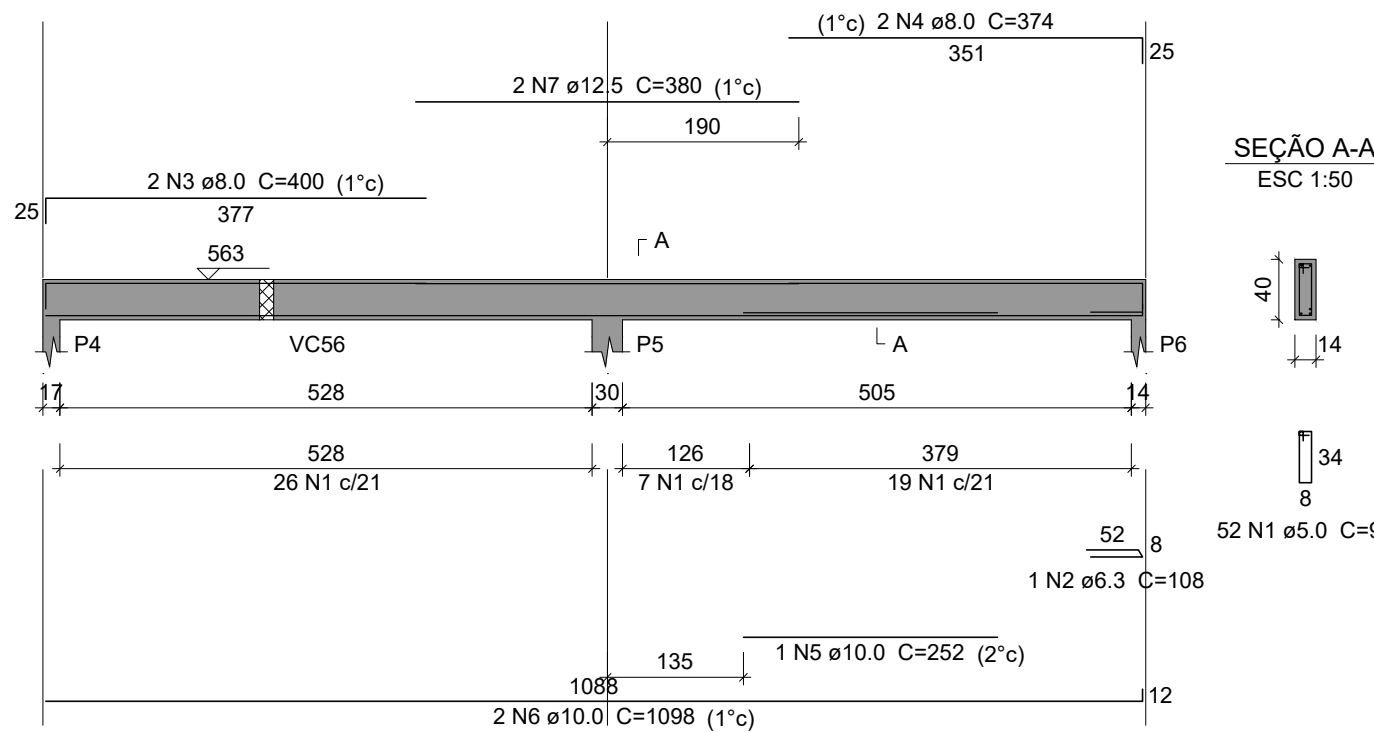
VC1 (14 x 40)

ESC 1:75



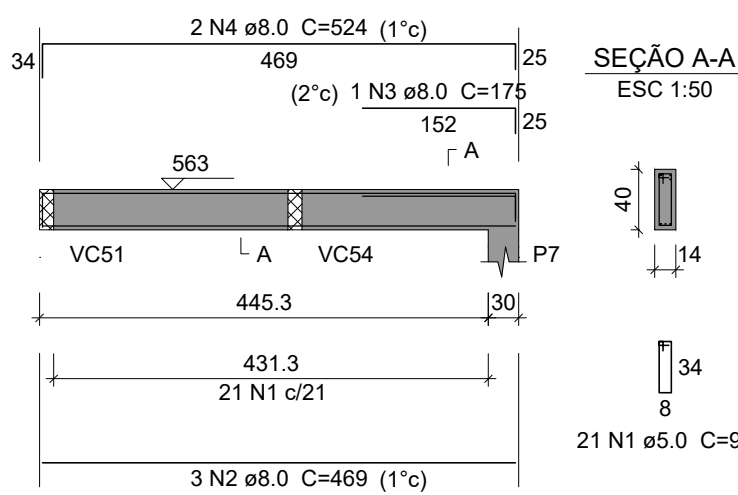
VC2 (14 x 40)

ESC 1:75



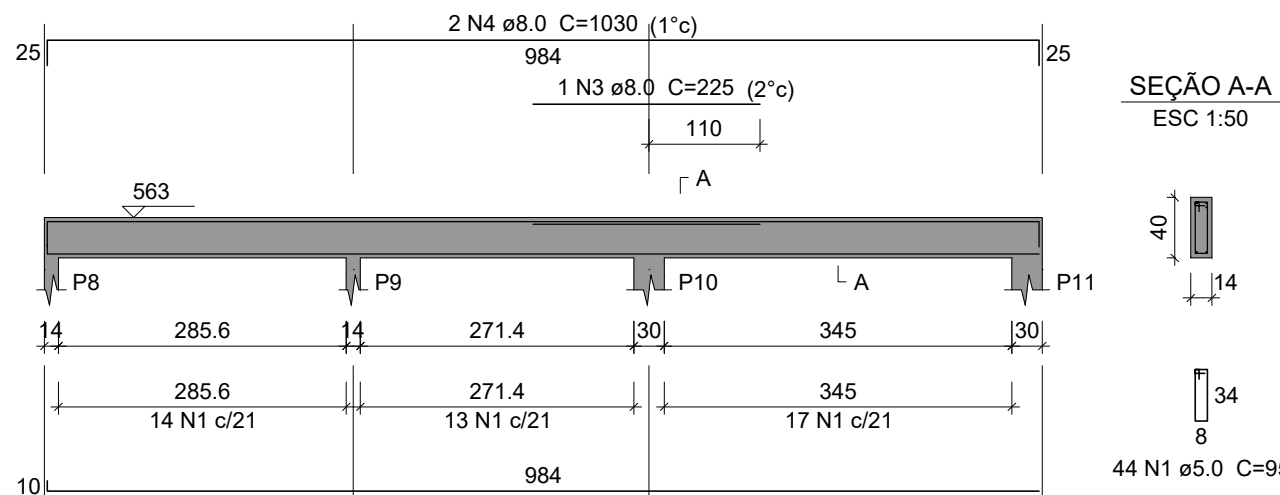
VC3 (14 x 40)

ESC 1:75



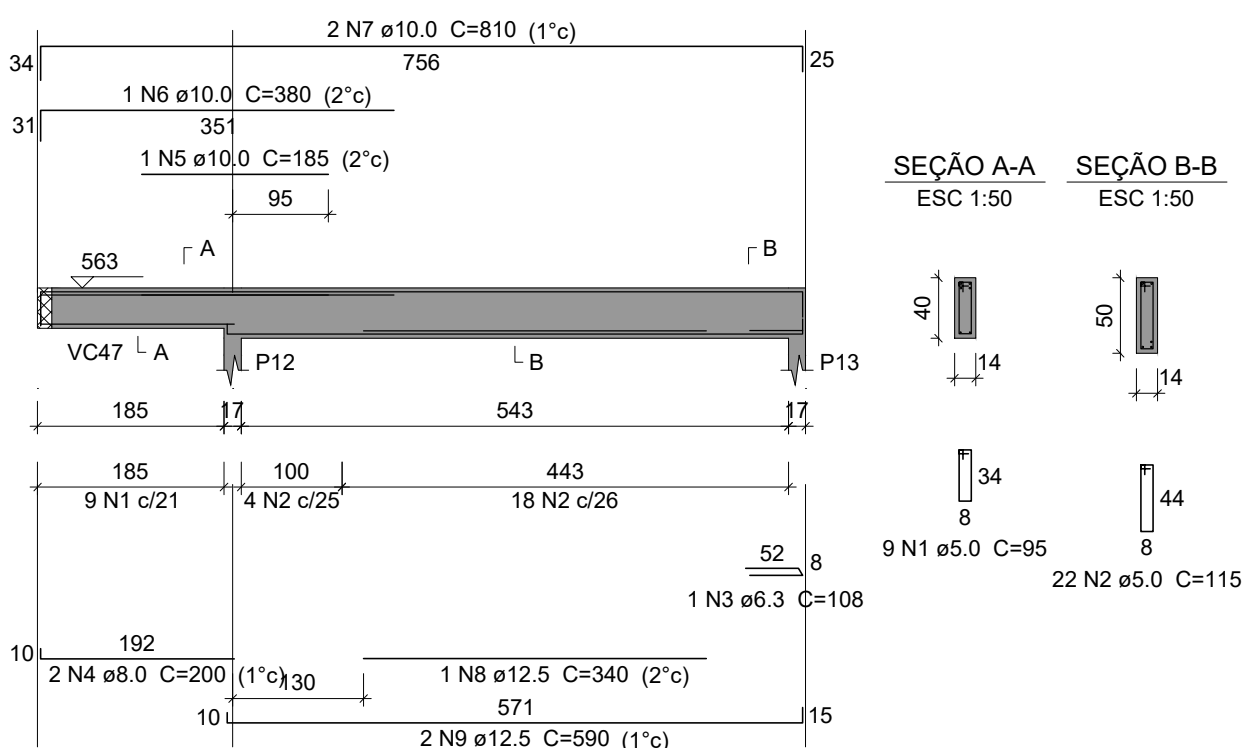
VC4 (14 x 40)

ESC 1:75



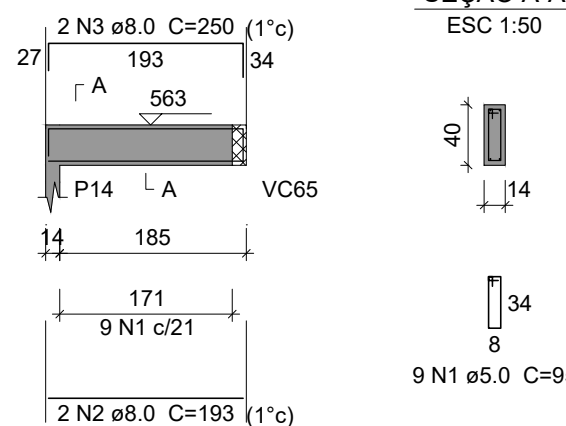
VC5 (var)

ESC 1:75



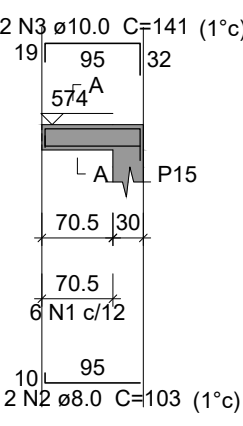
VC6 (14 x 40)

ESC 1:75



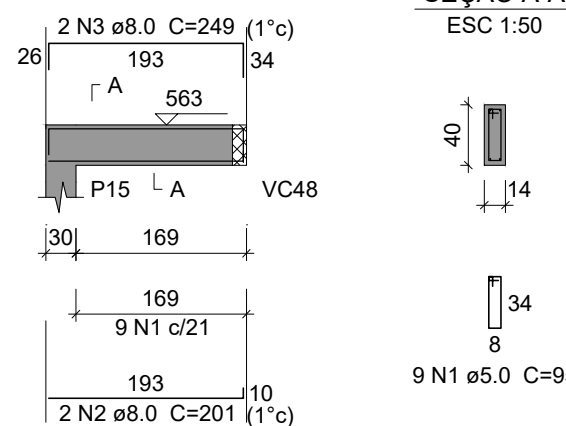
VC7 (14 x 25)

ESC 1:75



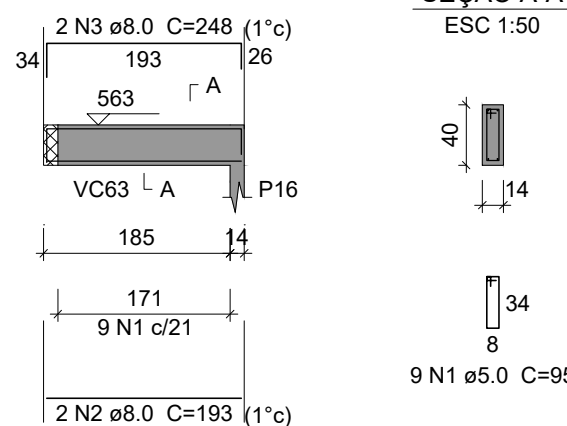
VC8 (14 x 40)

ESC 1:75



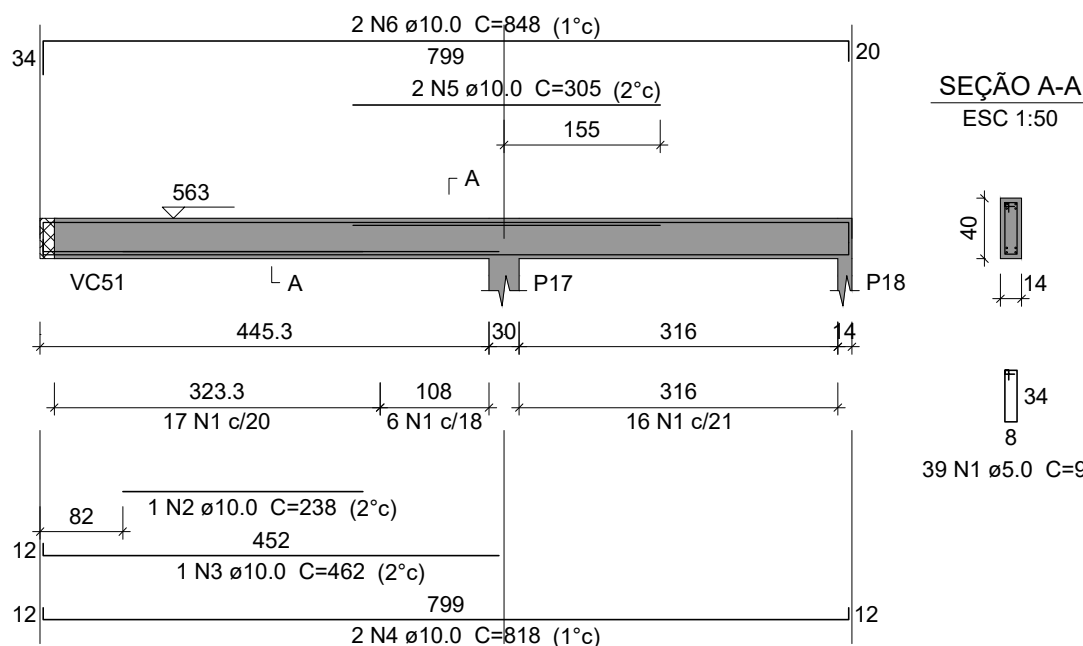
VC9 (14 x 40)

ESC 1:75



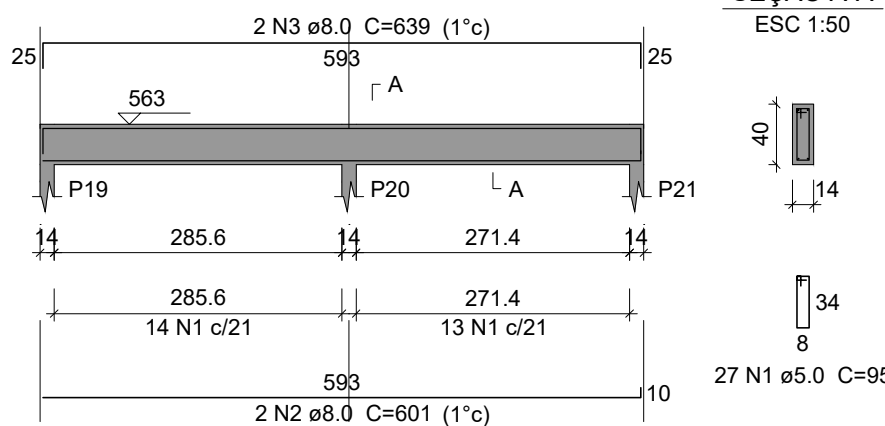
VC10 (14 x 40)

ESC 1:75



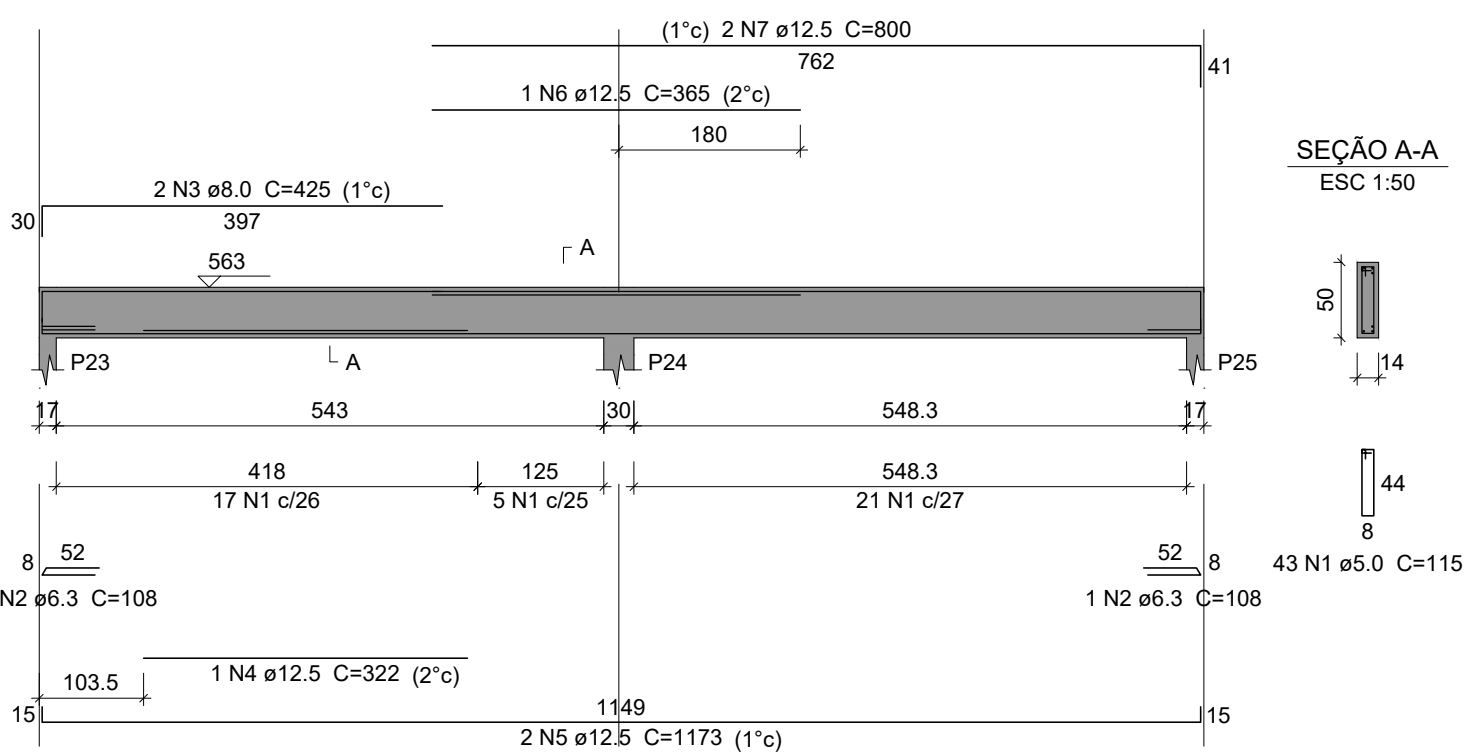
VC11 (14 x 40)

ESC 1:75



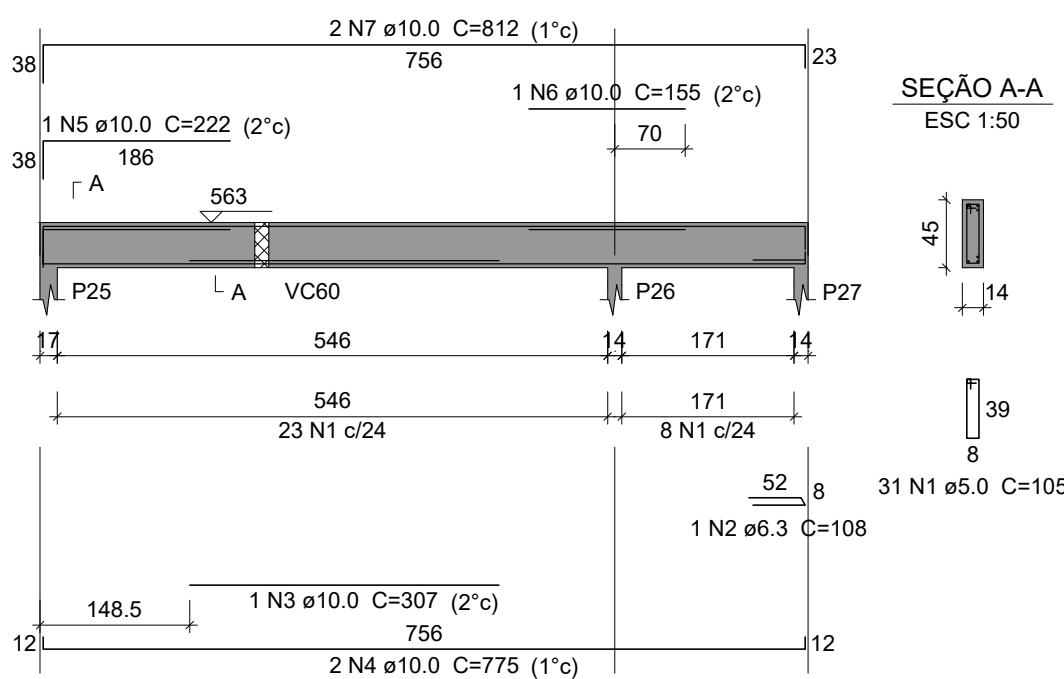
VC12 (14 x 50)

ESC 1:75



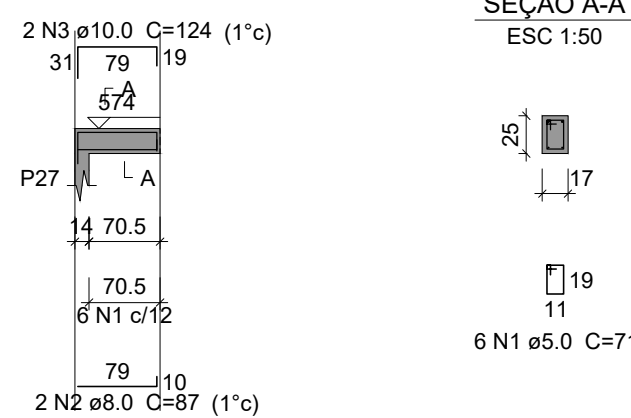
VC13 (14 x 45)

ESC 1:75



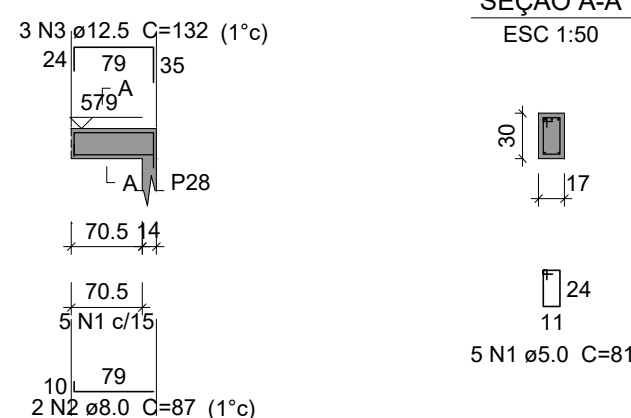
VC14 (17 x 25)

ESC 1:75



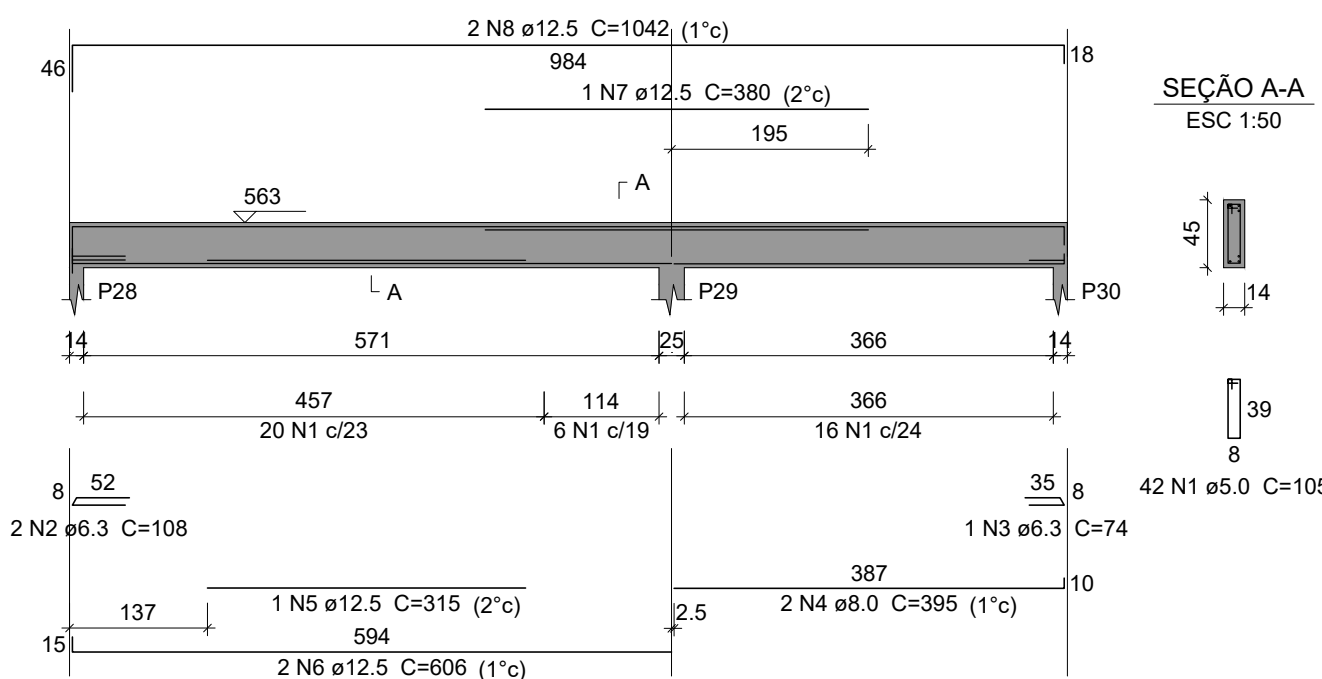
VC15 (17 x 30)

ESC 1:75



VC16 (14 x 45)

ESC 1:75



Relação do aço

ELEMENTO	AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
VC1	CA60	1	5.0	48	95	4560
	CA50	2	8.0	2	230	460
	CA50	3	10.0	1	137	137
	CA50	4	10.0	1	160	160
	CA50	5	10.0	2	809	1618
VC2	CA50	6	12.5	2	540	1080
	CA60	1	5.0	52	95	4940
	CA50	2	6.3	1	108	108
	CA50	3	8.0	2	400	800
	CA50	4	8.0	2	374	748
VC3	CA50	5	10.0	1	252	252
	CA50	6	10.0	2	1098	2196
	CA50	7	12.5	2	380	760
	CA60	1	5.0	21	95	1995
	CA50	2	8.0	3	469	1407
VC4	CA50	3	8.0	1	175	175
	CA50	4	8.0	2	524	1048
	CA60	1	5.0	44	95	4180
	CA50	2	8.0	2	992	1984
	CA50	3	8.0	1	225	225
VC5	CA50	4	8.0	2	1030	2060
	CA60	1	5.0	9	95	855
	CA60	2	5.0	22	115	2530
	CA50	3	6.3	1	108	108
	CA50	4	8.0	2	200	400
VC6	CA50	5	10.0	1	185	185
	CA50	6	10.0	1	380	380
	CA50	7	10.0	2	810	1620
	CA50	8	12.5	1	340	340
	CA50	9	12.5	2	590	1180
VC7	CA60	1	5.0	9	95	855
	CA50	2	8.0	2	193	386
	CA50	3	8.0	2	250	500
	CA60	1	5.0	6	85	390
	CA50	2	8.0	2	103	206
VC8	CA50	3	10.0	2	141	282
	CA60	1	5.0	9	95	855
	CA50	2	8.0	2	201	402
	CA50	3	8.0	2	249	498
	CA60	1	5.0	9	95	855
VC9	CA50	2	8.0	2	193	386
	CA50	3	8.0	2	248	496
	CA60	1	5.0	39	95	3705
	CA50	2	10.0	1	238	238
	CA50	3	10.0	1	462	462
VC10	CA50	4	10.0	2	818	1636
	CA50	5	10.0	2	305	610
	CA50	6	10.0	2	848	1696
	CA60	1	5.0	27	95	2565
	CA50	2	8.0	2	601	1202
VC11	CA50	3	8.0	2	639	1278
	CA60	1	5.0	43	115	4945
	CA50	2	6.3	3	108	324
	CA50	3	8.0	2	425	850
	CA50	4	12.5	1	322	322
VC12	CA50	5	12.5	2	1173	2346
	CA50	6	12.5	1	365	365
	CA50	7	12.5	2	800	1600
	CA60	1	5.0	31	105	3255
	CA50	2	6.3	1	108	108
VC13	CA50	3	10.0	1	307	307
	CA50	4	10.0	2	775	1550
	CA50	5	10.0	1	222	222
	CA50	6	10.0	1	155	155
	CA50	7	10.0	2	812	1624
VC14	CA60	1	5.0	6	71	426
	CA50	2	8.0	2	87	174
	CA50	3	10.0	2	124	248
	CA60	1	5.0	5	81	405
	CA50	2	8.0	2	87	174
VC15	CA50	3	12.5	3	132	396
	CA60	1	5.0	42	105	4410
	CA50	2	6.3	2	108	216
	CA50	3	6.3	1	74	74
	CA50	4	8.0	2	395	790
VC16	CA50	5	12.5	1	315	315
	CA50	6	12.5	2	606	1212
	CA50	7	12.5	1	380	380
	CA50	8	12.5	2	1042	2084

Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	6.3	9.4	2.5
	8.0	166.5	72.3
	10.0	155.8	105.6
	12.5	123.8	131.2
CA60	5.0	417.3	70.7
PESO TOTAL (kg)			
CA50	311.6		
CA60	70.7		

Volume de concreto (C-25) = 5.11 m³
Área de forma = 62.62 m²

PROJETO ESTRUTURAL

OBRA: PROMOTORIAS DE JUSTIÇA DE TOCANTINÓPOLIS

ENDEREÇO: RUA FLORIANO SANTOS, QUADRA 18, LOTE 02, TOCANTINÓPOLIS-TO

PROPRIETÁRIO: PROCURADORIA-GERAL DE JUSTIÇA - ESTADO DO TOCANTINS

ABEL ANDRADE LEAL JÚNIOR
PROCURADOR-GERAL DE JUSTIÇA - ESTADO DO TOCANTINS

AUTOR DO PROJETO:
RENATO ANTUNES MAGALHÃES
ENG. CIVIL - CREA: 308322-D/TO

RESPONSÁVEL TÉCNICO:

CONTEÚDO:
- Detalhamento dos blocos de coroamento 01/03
- Lista de materiais.

ÁREA TOTAL CONSTRUÍDA:

1.174,15 m²

REVISÃO:

00

DATA:

SETEMBRO 2025

PRANCHA:

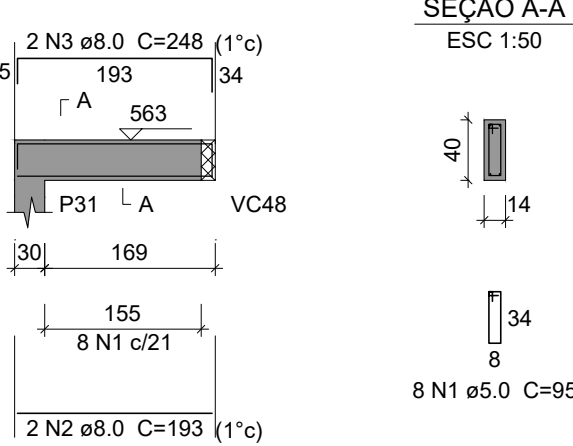
04/12



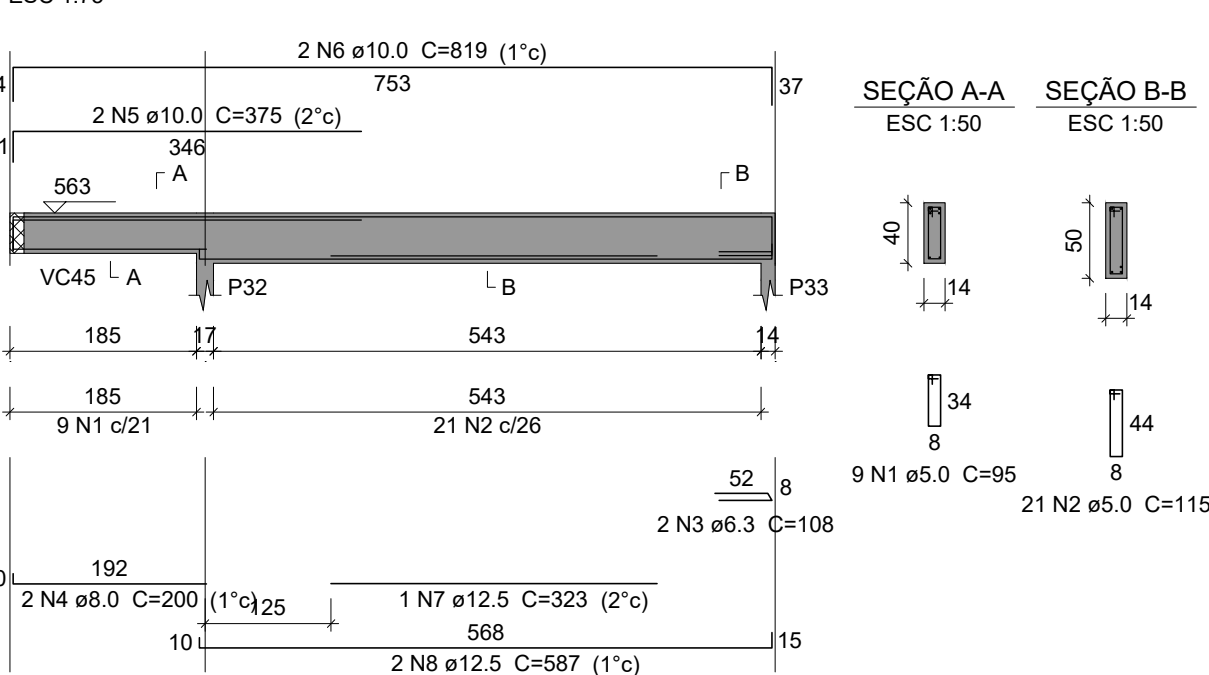
MINISTÉRIO PÚBLICO
ESTADO DO TOCANTINS

PROCURADORIA-GERAL DE JUSTIÇA

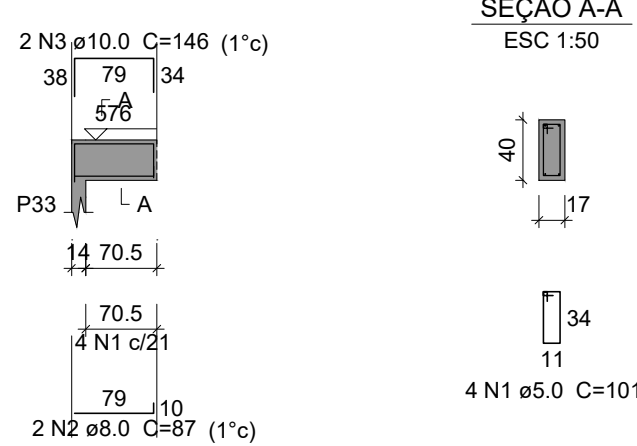
VC17 (14 x 40)



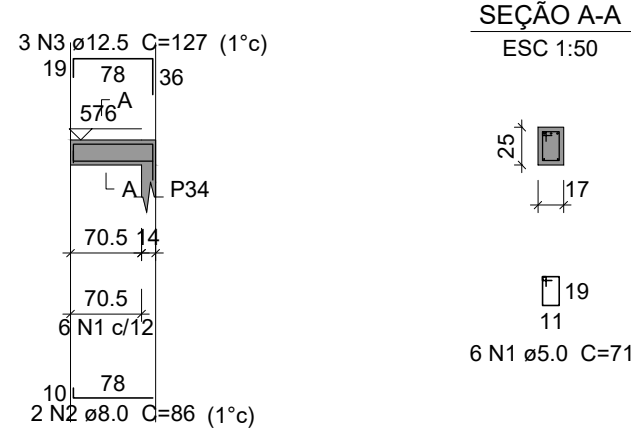
VC18 (var)



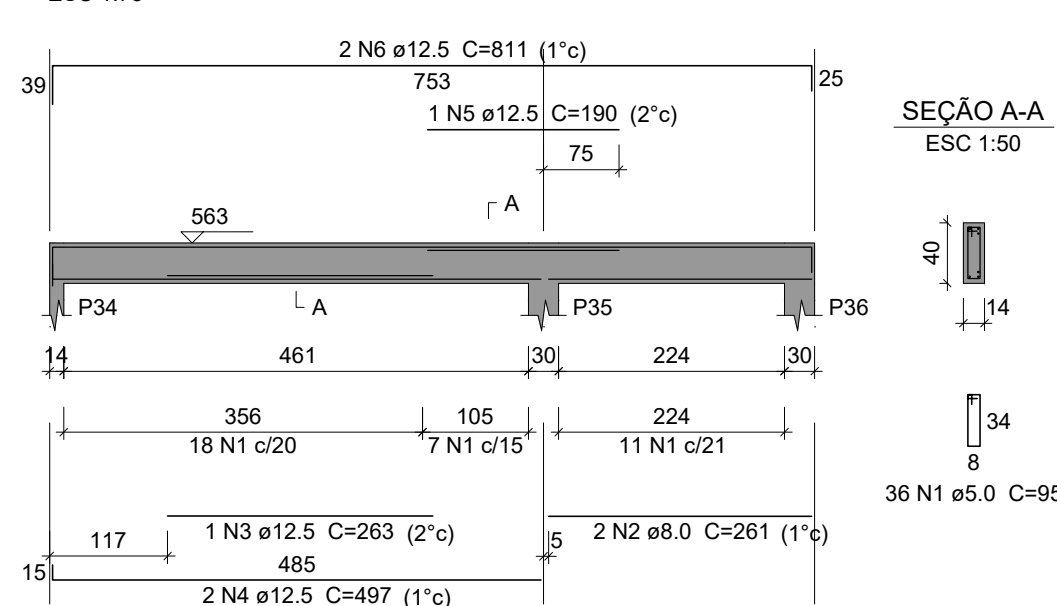
VC19 (17 x 40)



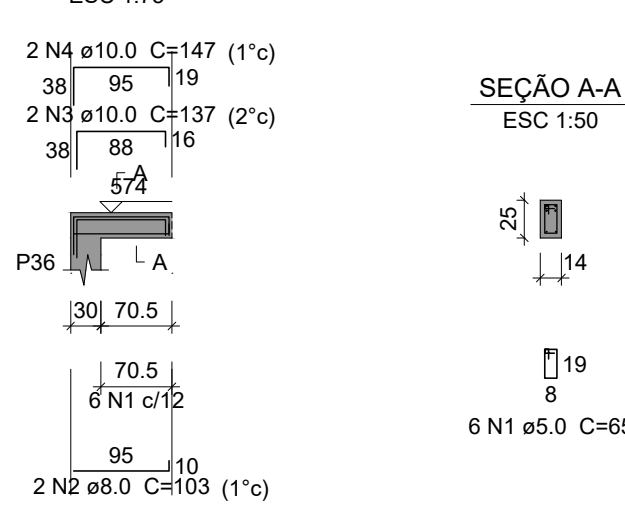
VC20 (17 x 25)



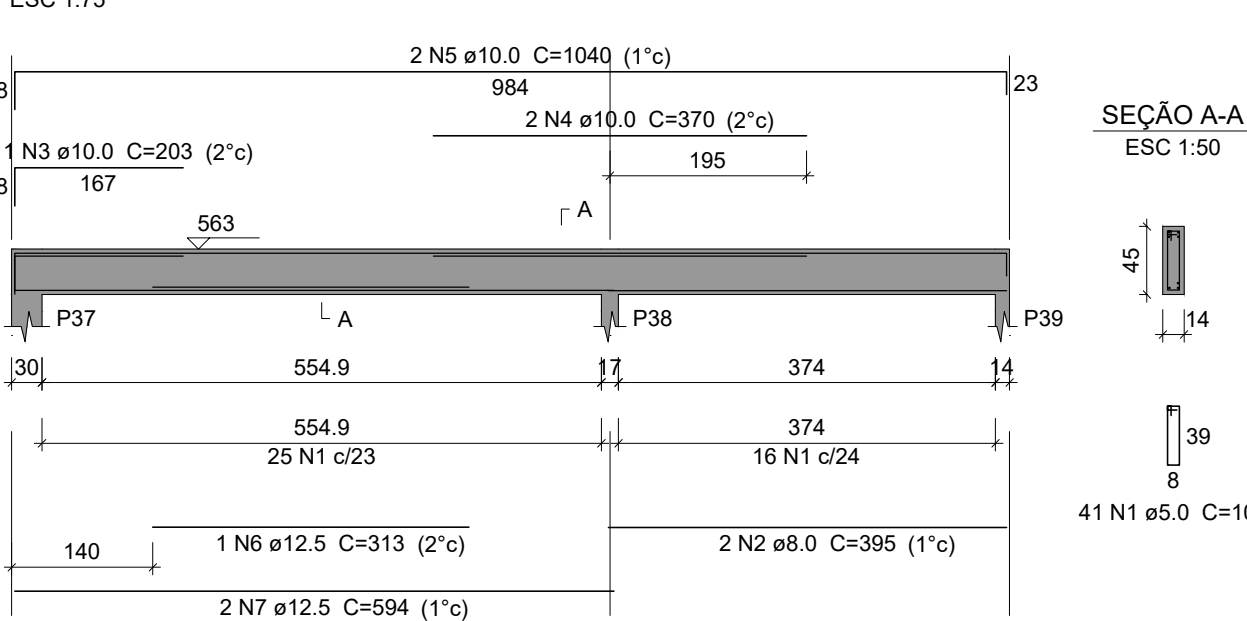
VC21 (14 x 40)



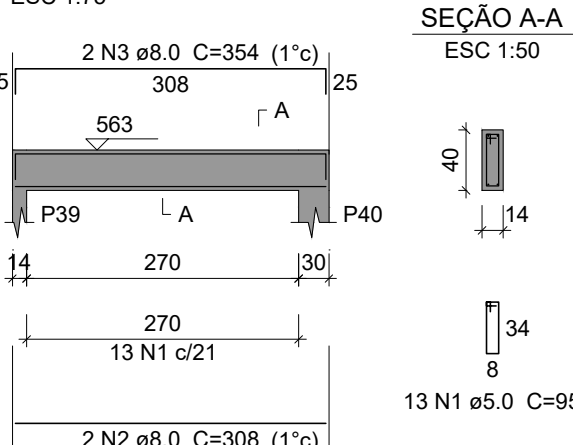
VC22 (14 x 25)



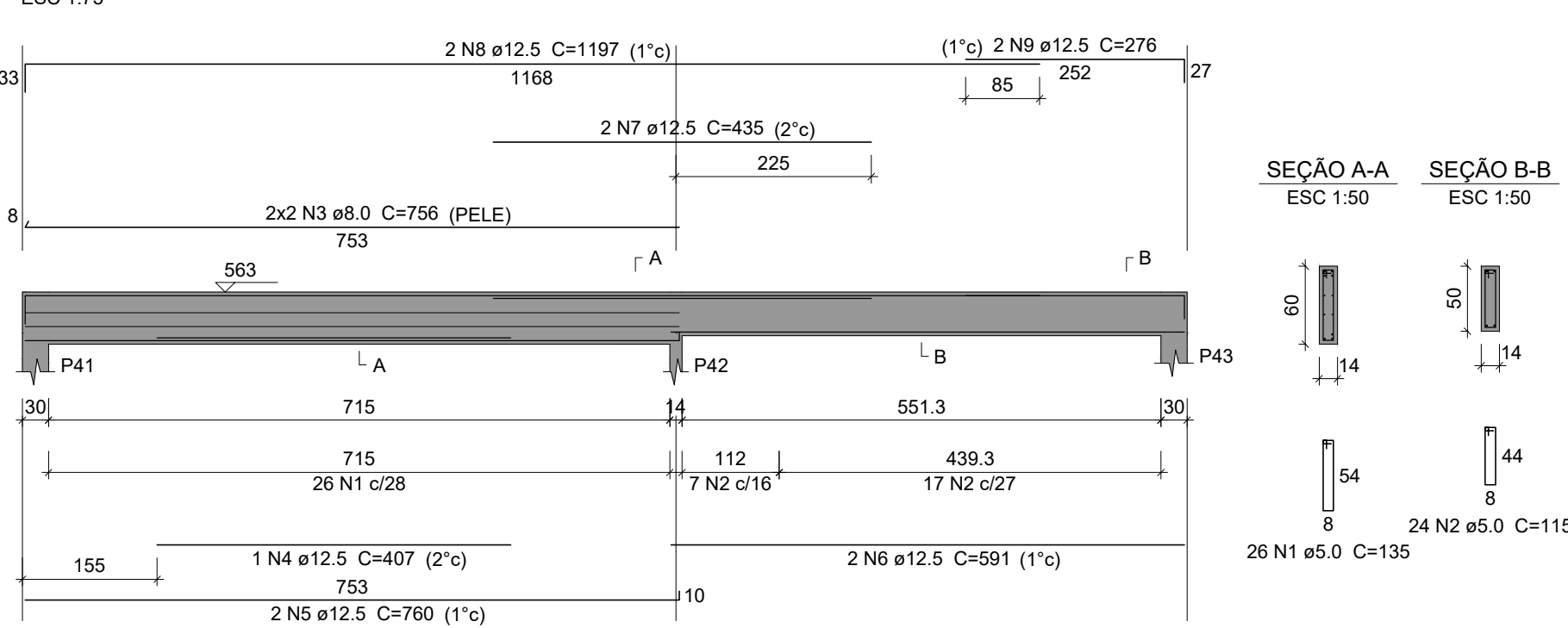
VC23 (14 x 45)



VC24 (14 x 40)



VC25 (var)

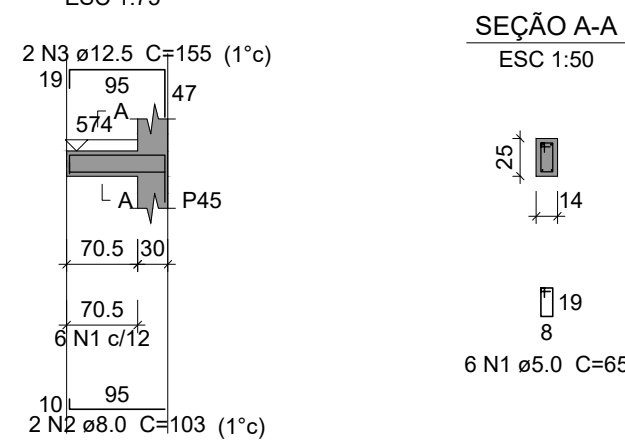


Resumo do aço

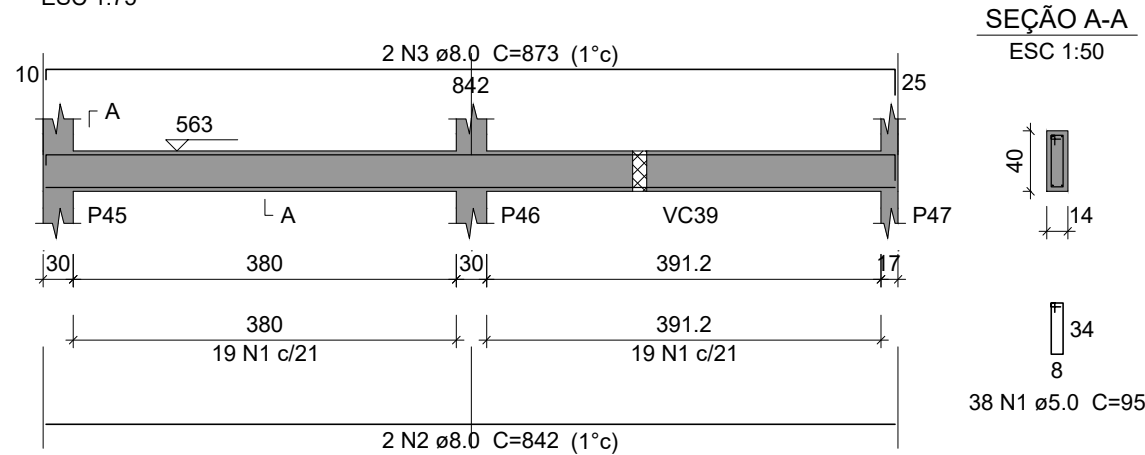
AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	6.3	4.4	1.2
	8.0	252.3	109.5
	10.0	100.7	68.3
	12.5	152.4	161.5
CA60	5.0	414.9	70.3
PESO TOTAL (kg)		Volume de concreto (C-25) = 5.25 m³	
		Área de forma = 68.77 m²	
CA50	340.4		
CA60	70.3		

Relação do aço						
ELEMENTO	AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
VC17	CA60	1	5.0	8	95	760
VC18	CA50	2	8.0	2	193	386
	CA50	3	8.0	2	248	496
	CA60	1	5.0	9	95	855
	CA60	2	5.0	21	115	2415
	CA50	3	6.3	2	108	216
VC19	CA50	4	8.0	2	200	400
	CA50	5	10.0	2	375	750
	CA50	6	10.0	2	819	1638
	CA50	7	12.5	1	323	323
	CA50	8	12.5	2	587	1174
VC20	CA60	1	5.0	4	101	404
	CA50	2	8.0	2	87	174
	CA50	3	10.0	2	146	292
	CA60	1	5.0	6	71	426
	CA50	2	8.0	2	86	172
VC21	CA50	3	12.5	3	127	381
	CA60	1	5.0	36	95	3420
	CA50	2	8.0	2	261	522
	CA50	3	12.5	1	263	263
	CA50	4	12.5	2	497	994
VC22	CA50	5	12.5	1	190	190
	CA50	6	12.5	2	811	1622
	CA60	1	5.0	6	65	390
	CA50	2	8.0	2	103	206
	CA50	3	10.0	2	137	274
VC23	CA50	4	10.0	2	147	294
	CA60	1	5.0	41	105	4305
	CA50	2	8.0	2	395	790
	CA50	3	10.0	1	203	203
	CA50	4	10.0	2	370	740
VC24	CA50	5	10.0	2	1040	2080
	CA50	6	12.5	1	313	313
	CA50	7	12.5	2	594	1188
	CA60	1	5.0	13	95	1235
	CA50	2	8.0	2	308	616
VC25	CA50	3	8.0	2	354	708
	CA60	1	5.0	26	135	3510
	CA60	2	5.0	24	115	2760
	CA50	3	8.0	4	756	3024
	CA50	4	12.5	1	407	407
VC26	CA50	5	12.5	2	760	1520
	CA50	6	12.5	2	591	1182
	CA50	7	12.5	2	435	870
	CA50	8	12.5	2	1197	2394
	CA50	9	12.5	2	276	552
VC27	CA60	1	5.0	6	65	390
	CA50	2	8.0	2	103	206
	CA50	3	12.5	2	155	310
	CA60	1	5.0	38	95	3610
	CA50	2	8.0	2	842	1684
VC28	CA50	3	8.0	2	873	1746
	CA60	1	5.0	21	95	1995
	CA50	2	6.3	1	108	108
	CA50	3	8.0	1	191	191
	CA50	4	8.0	1	149	149
VC29	CA50	5	8.0	2	503	1006
	CA50	6	10.0	2	463	926
	CA60	1	5.0	51	95	4845
	CA50	2	6.3	1	108	108
	CA50	3	8.0	2	460	920
VC30	CA50	4	10.0	2	335	670
	CA50	5	10.0	2	1101	2202
	CA50	6	12.5	1	316	316
	CA50	7	12.5	2	619	1238
	CA60	1	5.0	34	95	3230
VC31	CA50	2	8.0	1	436	436
	CA50	3	8.0	2	769	1538
	CA50	4	8.0	1	245	245
	CA50	5	8.0	2	815	1630
	CA60	1	5.0	36	95	3420
VC32	CA50	2	8.0	1	272	272
	CA50	3	8.0	2	812	1624
	CA50	4	8.0	1	275	275
	CA50	5	8.0	1	140	140
	CA50	6	8.0	2	848	1696
VC33	CA60	1	5.0	13	95	1235
	CA50	2	8.0	2	284	568
	CA50	3	8.0	2	332	664
	CA60	1	5.0	24	95	2280
	CA50	2	8.0	1	239	239

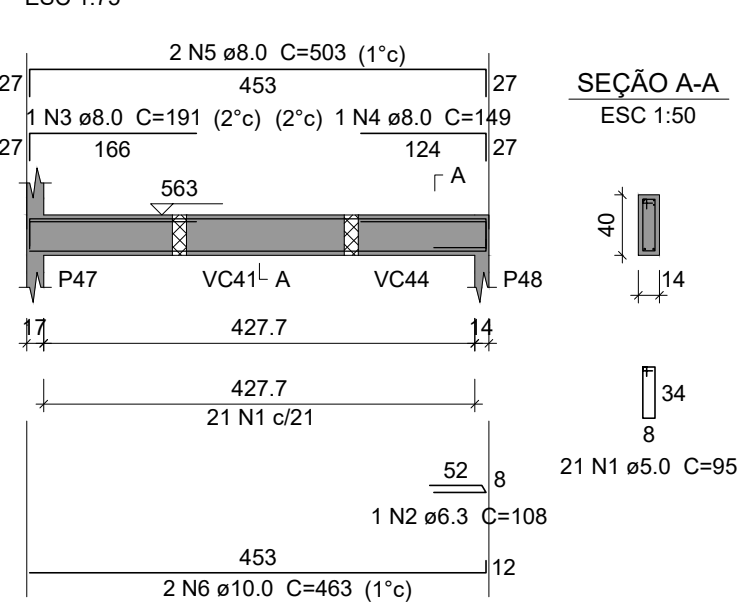
VC26 (14 x 25)



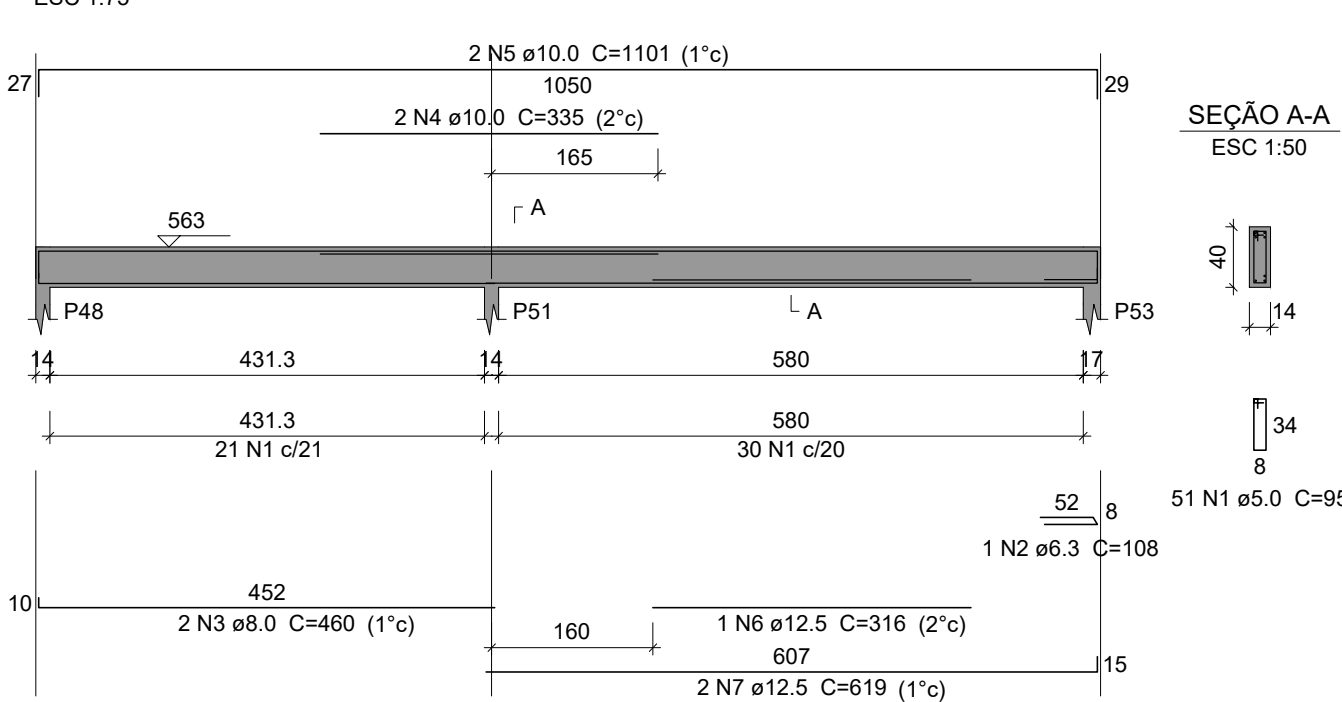
VC27 (14 x 40)



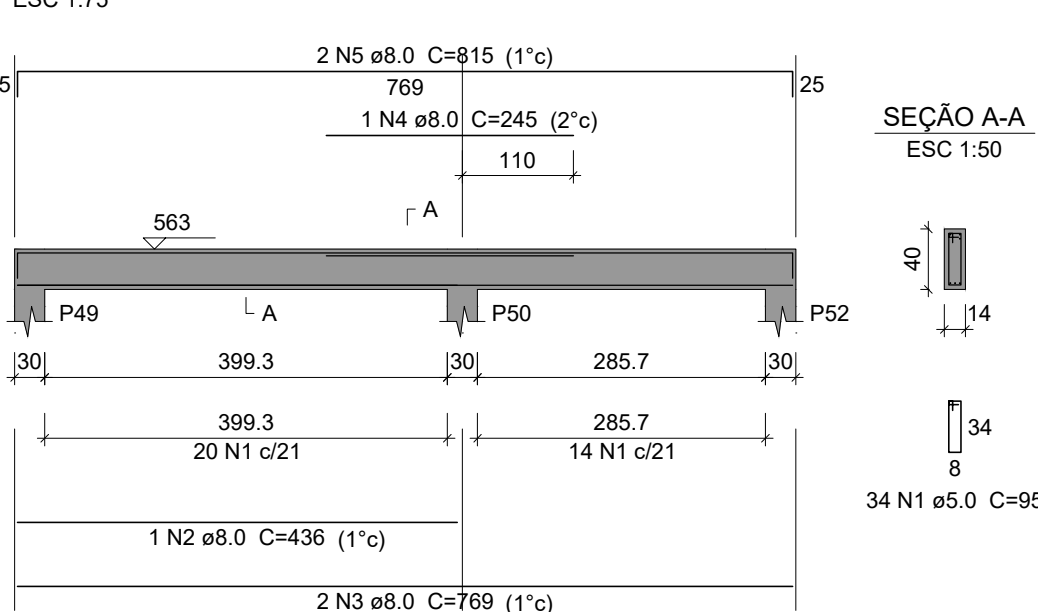
VC28 (14 x 40)



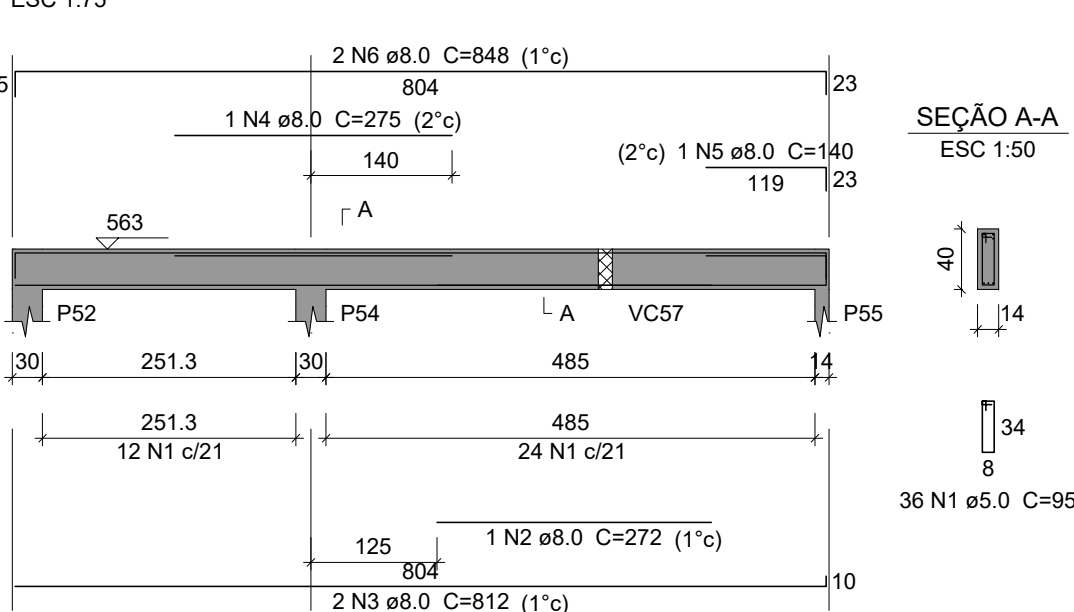
VC29 (14 x 40)



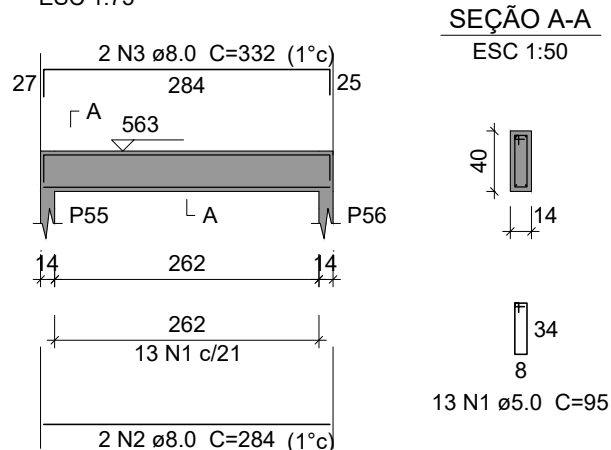
VC30 (14 x 40)



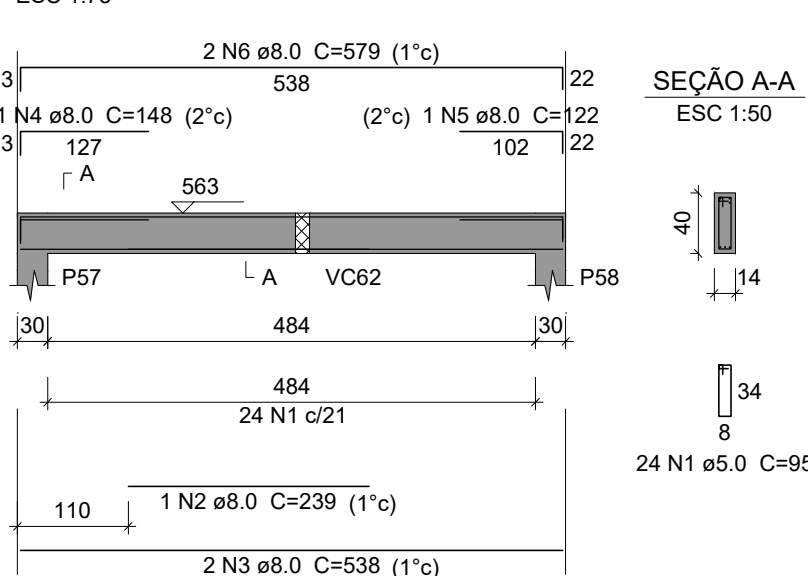
VC31 (14 x 40)



VC32 (14 x 40)



VC33 (14 x 40)



PROJETO ESTRUTURAL

OBRA: PROMOTORIAS DE JUSTIÇA DE TOCANTINÓPOLIS

ENDEREÇO: RUA FLORIANO SANTOS, QUADRA 18, LOTE 02, TOCANTINÓPOLIS-TO

PROPRIETÁRIO: PROCURADORIA-GERAL DE JUSTIÇA - ESTADO DO TOCANTINS

ABEL ANDRADE LEAL JÚNIOR
PROCURADOR-GERAL DE JUSTIÇA - ESTADO DO TOCANTINS

AUTOR DO PROJETO: RENATO ANTUNES MAGALHÃES
ENG. CIVIL - CREA: 308322-D/TO

RESPONSÁVEL TÉCNICO:

CONTEÚDO:
- Detalhamento dos blocos de coroamento 02/03
- Lista de materiais.

ÁREA TOTAL CONSTRUÍDA:

1.174,15 m²

REVISÃO:

00

DATA:

SETEMBRO 2025

ESCALA:

INDICADA

PRANCHA:

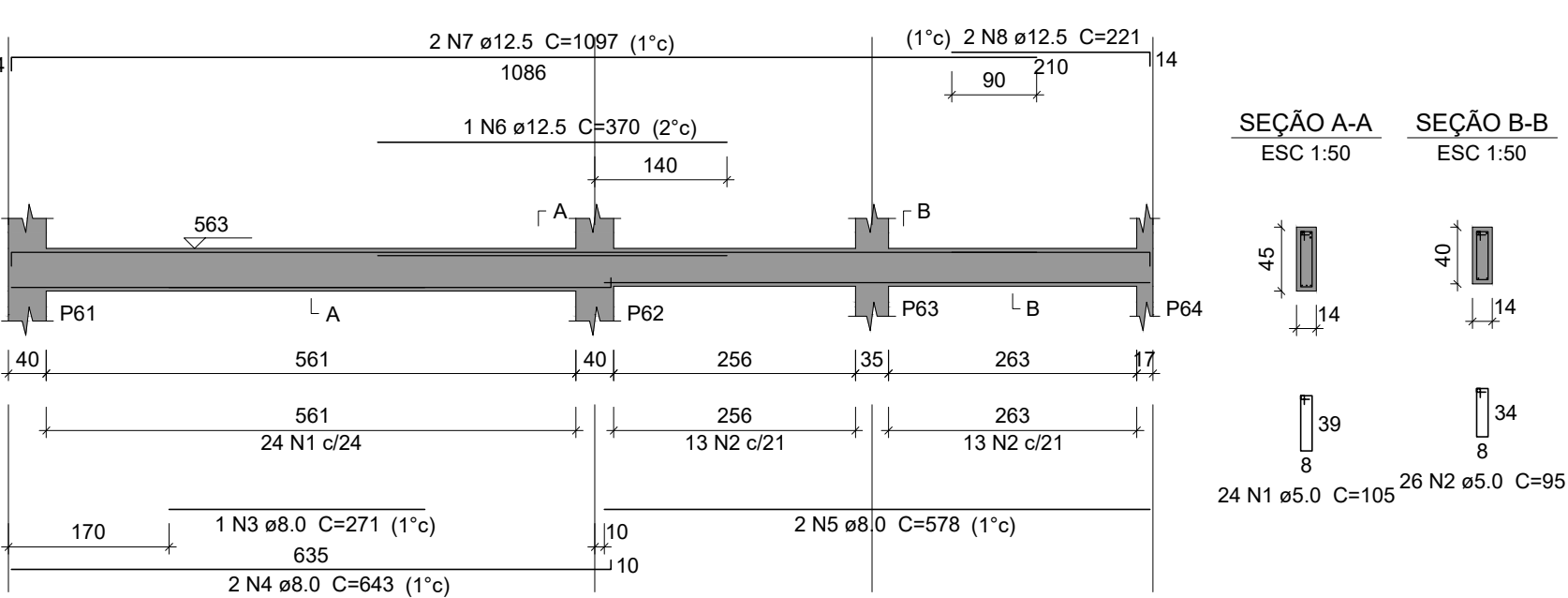
05/12



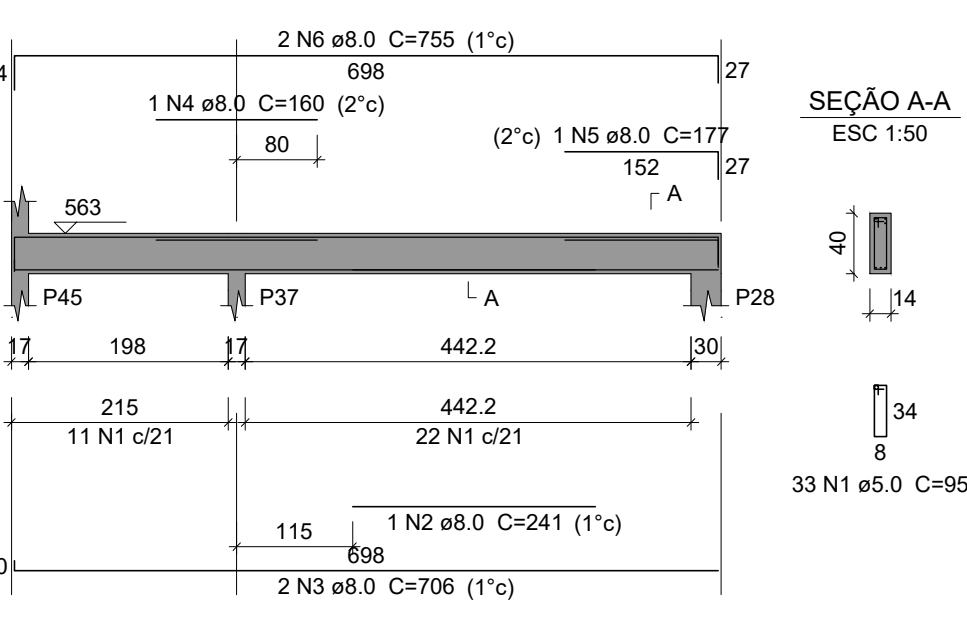
MINISTÉRIO PÚBLICO
ESTADO DO TOCANTINS

PROCURADORIA-GERAL DE JUSTIÇA

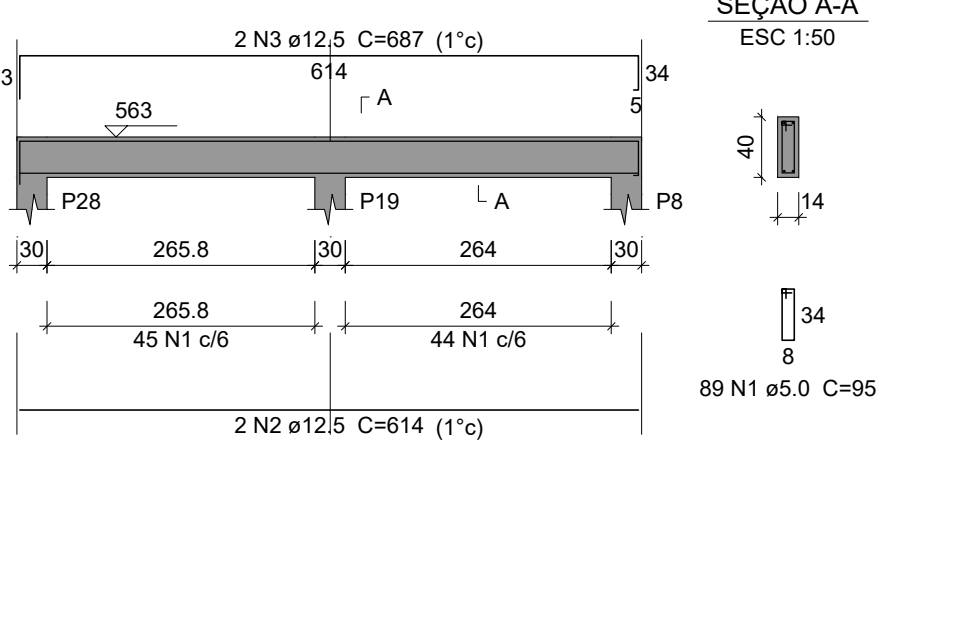
VC34 (var)



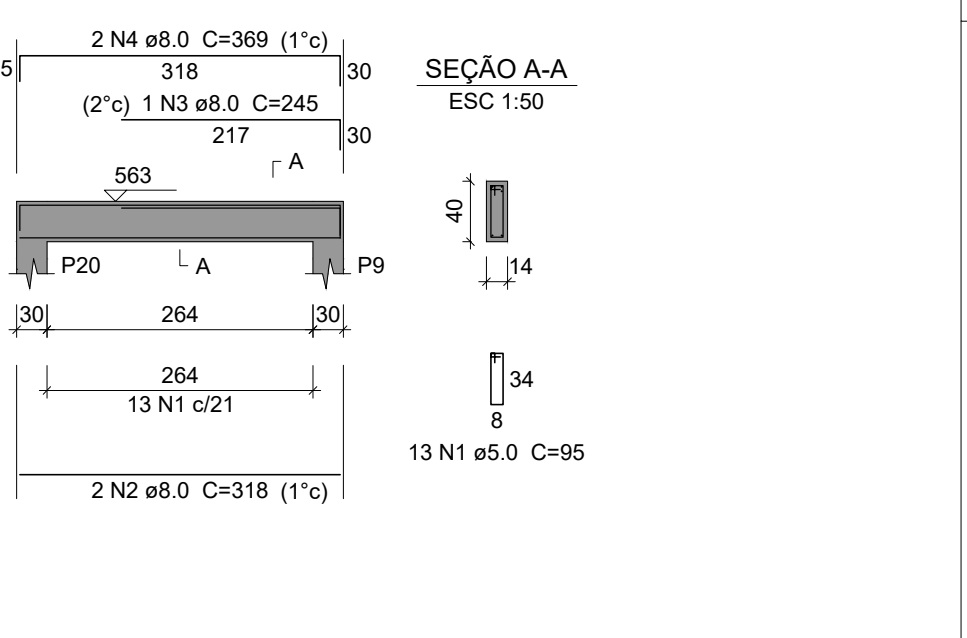
VC35 (14 x 40)



VC36 (14 x 40)



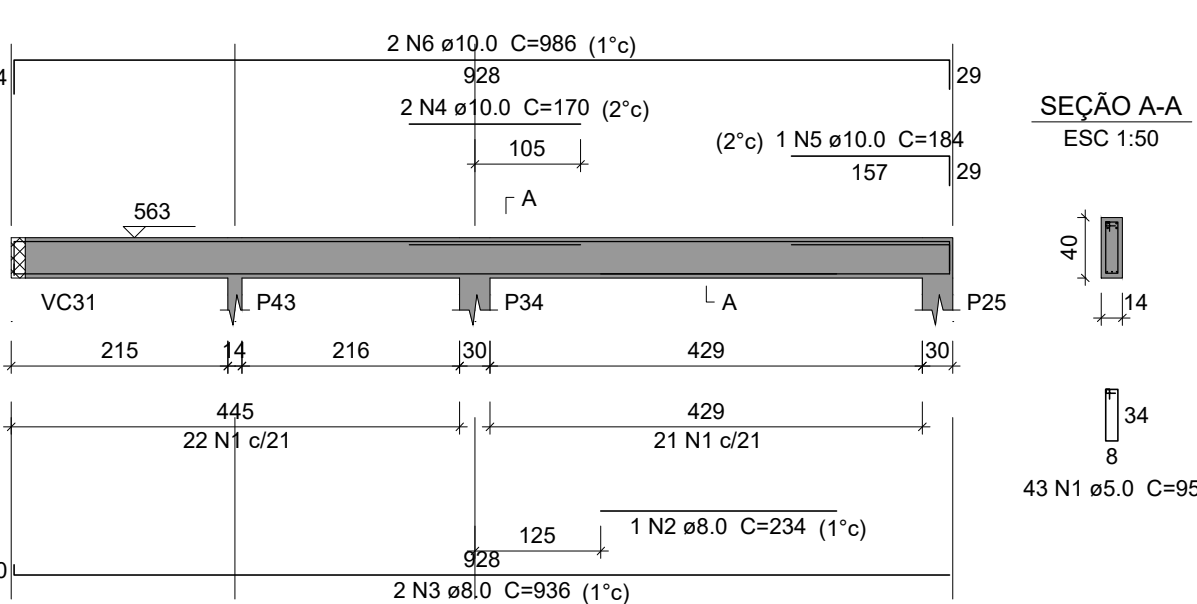
VC37 (14 x 40)



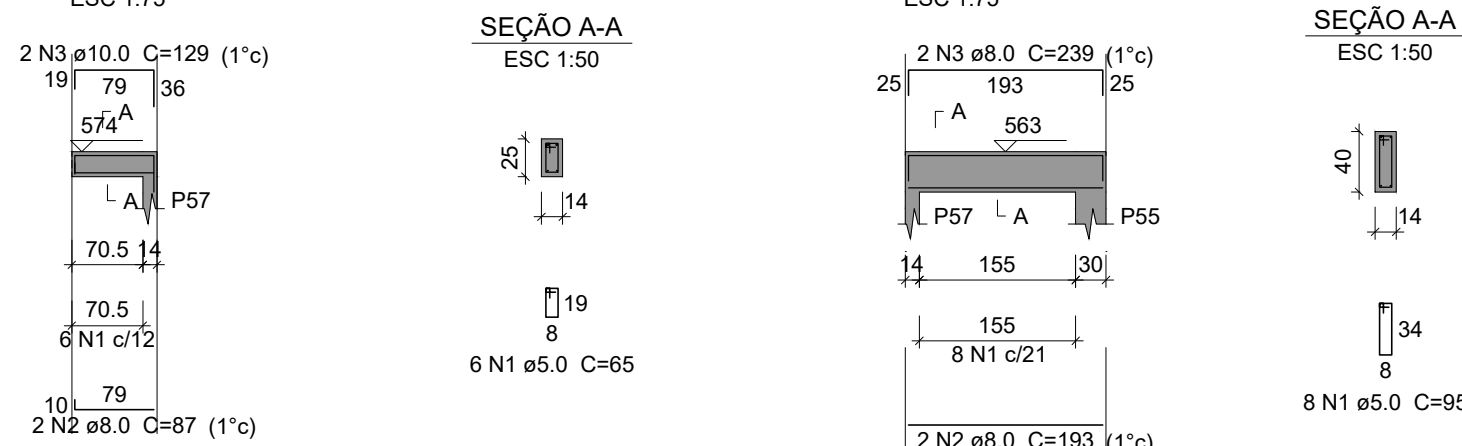
Relação do aço

ELEMENTO	AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
VC34	CA60	1	5.0	24	105	2520
	CA60	2	5.0	26	95	2470
	CA50	3	8.0	1	271	271
	CA50	4	8.0	2	643	1286
	CA50	5	8.0	2	578	1156
	CA50	6	12.5	1	370	370
VC35	CA50	7	12.5	2	1097	2194
	CA50	8	12.5	2	221	442
	CA60	1	5.0	33	95	3135
	CA50	2	8.0	1	241	241
	CA50	3	8.0	2	706	1412
	CA50	4	8.0	1	160	160
VC36	CA50	5	8.0	1	177	177
	CA50	6	8.0	2	755	1510
	CA60	1	5.0	89	95	8455
	CA50	2	12.5	2	614	1228
	CA50	3	12.5	2	687	1374
	CA60	1	5.0	13	95	1235
VC37	CA50	2	8.0	2	318	636
	CA50	3	8.0	1	245	245
	CA50	4	8.0	2	369	738
	CA60	1	5.0	6	75	450
	CA50	2	8.0	2	102	204
	CA50	3	10.0	2	140	280
VC38	CA50	4	10.0	2	149	298
	CA60	1	5.0	32	95	3040
	CA50	2	8.0	2	230	460
	CA50	3	10.0	1	253	253
	CA50	4	10.0	2	453	906
	CA50	5	10.0	1	140	140
VC39	CA50	6	10.0	2	743	1486
	CA60	1	5.0	28	95	2680
	CA50	2	8.0	2	614	1228
	CA50	3	8.0	1	275	275
	CA50	4	8.0	2	665	1330
	CA60	1	5.0	32	95	3040
VC40	CA50	2	8.0	1	239	239
	CA50	3	8.0	2	706	1412
	CA50	4	8.0	1	175	175
	CA50	5	8.0	1	185	185
	CA50	6	8.0	2	758	1516
	CA60	1	5.0	27	95	2565
VC41	CA50	2	8.0	2	614	1228
	CA50	3	8.0	1	157	157
	CA50	4	8.0	2	664	1328
	CA60	1	5.0	5	375	1875
	CA50	2	8.0	2	87	174
	CA50	3	12.5	2	134	268
VC42	CA60	1	5.0	20	95	1900
	CA50	2	10.0	2	456	912
	CA50	3	10.0	2	513	1026
	CA60	1	5.0	31	95	2945
	CA50	2	6.3	1	74	74
	CA50	3	8.0	2	686	1372
VC43	CA50	4	8.0	2	724	1448
	CA60	1	5.0	10	95	950
	CA50	2	6.3	1	74	74
	CA50	3	8.0	2	247	494
	CA50	4	8.0	2	285	570
	CA60	1	5.0	22	95	2090
VC44	CA50	2	8.0	2	468	936
	CA50	3	8.0	2	514	1028
	CA60	1	5.0	36	95	3420
	CA50	2	8.0	2	813	1626
	CA50	3	8.0	1	225	225
	CA50	4	8.0	2	864	1728
VC45	CA60	1	5.0	19	95	1805
	CA50	2	8.0	2	430	860
	CA50	3	8.0	2	485	970
	CA60	1	5.0	43	95	4085
	CA50	2	8.0	1	386	386
	CA50	3	8.0	2	936	1872
VC46	CA50	4	8.0	1	165	165
	CA50	5	8.0	2	975	1950
	CA60	1	5.0	33	95	3135
	CA50	2	10.0	1	159	159
	CA50	3	10.0	2	736	1472
	CA50	4	10.0	1	295	295
VC47	CA50	5	10.0	2	796	1592
	CA60	1	5.0	6	65	390
	CA50	2	8.0	2	102	204
	CA50	3	10.0	2	137	274
	CA50	4	10.0	2	146	292
	CA50	5	8.0	1	180	180
VC48	CA50	6	8.0	1	358	358
	CA60	1	5.0	2	573	1146
	CA50	2	8.0	2	440	880
	CA50	3	8.0	1	142	142
	CA50	4	8.0	1	168	168
	CA50	5	8.0	2	463	926
VC49	CA60	1	5.0	8	95	760
	CA50	2	8.0	2	181	362
	CA50	3	12.5	2	242	484
	CA60	1	5.0	6	71	426
	CA50	2	8.0	2	102	204
	CA50	3	10.0	3	140	420
VC50	CA60	1	5.0	24	95	2280
	CA50	2	8.0	2	526	1052
	CA50	3	8.0	1	180	180
	CA50	4	8.0	1	358	358
	CA60	1	5.0	2	573	1146
	CA50	5	8.0	2	573	1146
VC51	CA50	6	8.0	1	180	180
	CA50	7	8.0	1	358	358
	CA60	1	5.0	2	573	1146
	CA50	3	12.5	2	242	484
	CA50	4	8.0	2	102	204
	CA50	5	8.0	2	102	204
VC52	CA50	6	8.0	1	180	180
	CA50	7	8.0	1	358	358
	CA60	1	5.0	2	573	1146
	CA50	3	12.5	2	242	484
	CA50	4	8.0	2	102	204
	CA50	5	8.0	2	102	204
VC53	CA50	6	8.0	1	180	180
	CA50	7	8.0	1	358	358
	CA60	1	5.0	2	573	1146
	CA50	3	12.5	2	242	484
	CA50	4	8.0	2	102	204
	CA50	5	8.0	2	102	204
VC54	CA50	6	8.0	1	180	180
	CA50	7	8.0	1	358	358
	CA60	1	5.0	2	573	1146
	CA50	3	12.5	2	242	484
	CA50	4	8.0	2	102	204
	CA50	5	8.0	2	102	204
VC55	CA50	6	8.0	1	180	180
	CA50	7	8.0	1	358	358
	CA60	1	5.0	2	573	1146
	CA50	3	12.5	2	242	484
	CA50	4	8.0	2	102	204
	CA50	5	8.0	2	102	204
VC56	CA50	6	8.0	1	180	180
	CA50	7	8.0	1	358	358
	CA60	1	5.0	2	573	1146
	CA50	3	12.5	2	242	484
	CA50	4	8.0	2	102	204
	CA50	5	8.0	2	102	204
VC57	CA50	6	8.0	1	180	180
	CA50	7	8.0	1	358	358
	CA60	1	5.0	2	573	1146
	CA50	3	12.5	2	242	484
	CA50	4	8.0	2	102	204
	CA50	5	8.0	2	102	204
VC58	CA50	6	8.0	1	180	180
	CA50	7	8.0	1	358	358
	CA60	1	5.0	2	573	1146
	CA50	3	12.5	2	242	484
	CA50	4	8.0	2	102	204
	CA50	5	8.0	2	102	204
VC59	CA50	6	8.0	1	180	180
	CA50	7	8.0	1	358	358
	CA60	1	5.0	2	573	1146
	CA50	3	12.5	2	242	484
	CA50	4	8.0	2	102	204
	CA50	5	8.0	2	102	204
VC60	CA50	6	8.0	1	180	180
	CA50	7	8.0	1	358	358
	CA60	1	5.0	2	573	1146
	CA50	3	12.5	2	242	484
	CA50	4	8.0	2	102	204
	CA50	5	8.0	2	102	204
VC61	CA50	6	8.0	1	180	180
	CA50	7	8.0	1	358	358
	CA60	1	5.0	2	573	1146
	CA50	3	12.5	2	242	484
	CA50	4	8.0	2	102	204
	CA50	5	8.0	2	102	204
VC62	CA50	6	8.0	1	180	180
	CA50	7	8.0	1	358	358
	CA60	1	5.0	2	573	1146
	CA50	3	12.5	2	242	484
	CA50	4	8.0	2	102	204
	CA50	5	8.0	2	102	204
VC63	CA50	6	8.0	1	180	180
	CA50	7	8.0	1	358	358
	CA60	1	5.0	2	573	1146
	CA50	3	12.5	2	242	484
	CA50	4	8.0	2	102	204
	CA50	5	8.0	2	102	204
VC64	CA50	6	8.0	1	180	180
	CA50	7	8.0	1	358	358
	CA60	1	5.0	2	573	1146
	CA50	3	12.5	2	242	484
	CA50	4	8.0	2	102	204
	CA50	5	8.0	2	102	204
VC65	CA50	6	8.0	1	180	180
	CA50	7	8.0	1	358	358
	CA60	1	5.0	2	573	1146
	CA50	3	12.5	2	242	484
	CA50	4	8.0	2	102	204
	CA50	5	8.0	2	102	204
VC66	CA50	6	8.0	1	180	180
	CA50	7	8.0	1	358	358
	CA60	1	5.0	2	573	1146
	CA50	3	12.5	2	242	484
	CA50	4	8.0	2	102	204
	CA50	5	8.0	2	102	204

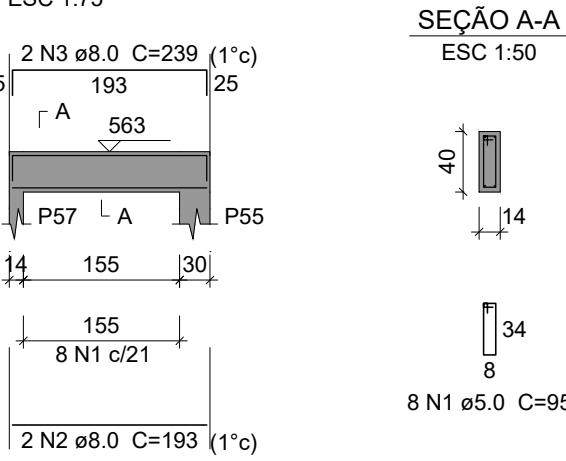
VC57 (14 x 40)



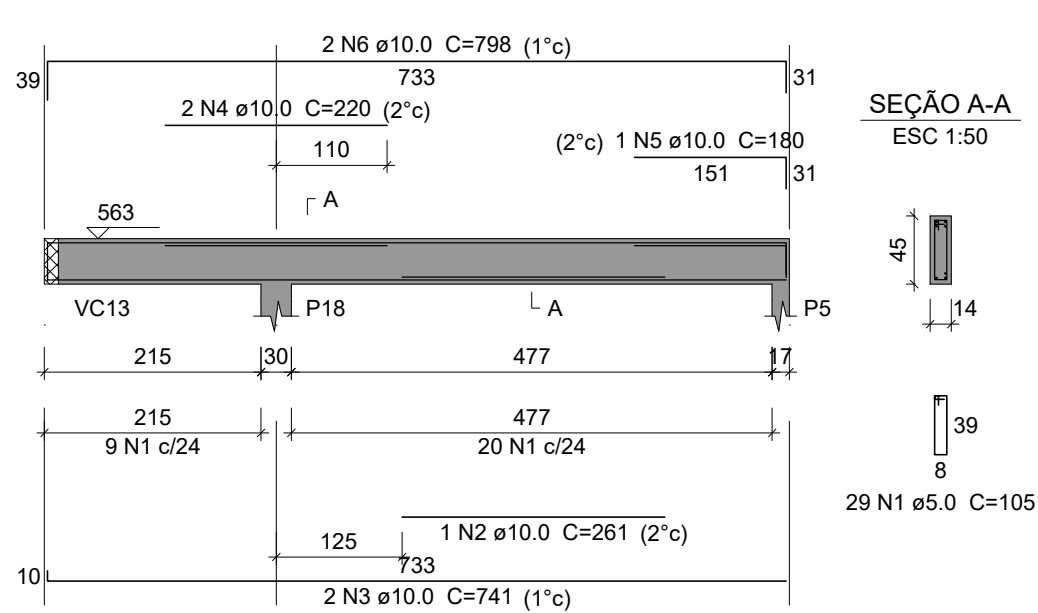
VC58 (14 x 25)



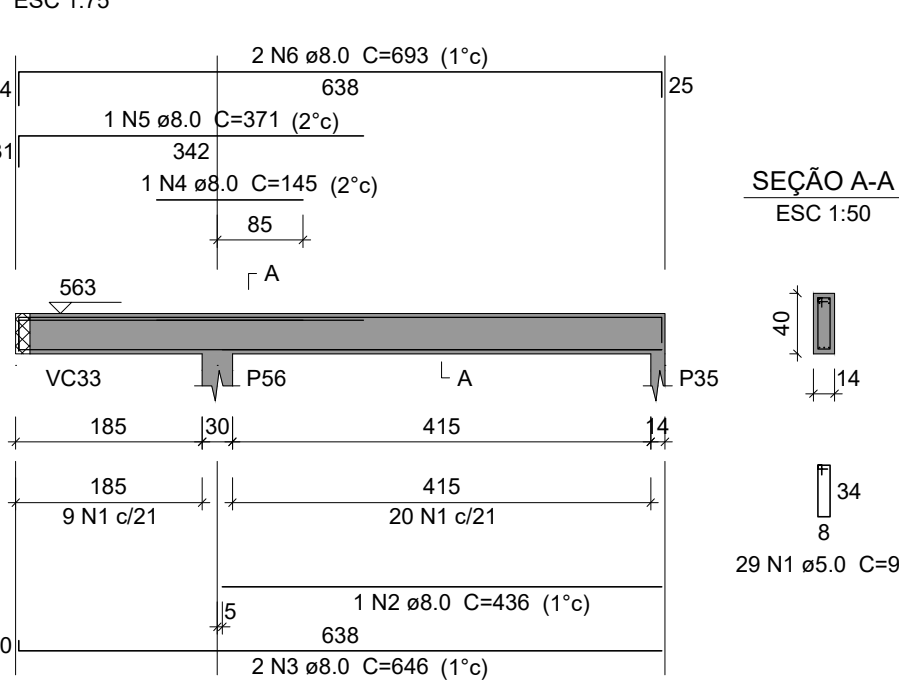
VC59 (14 x 40)



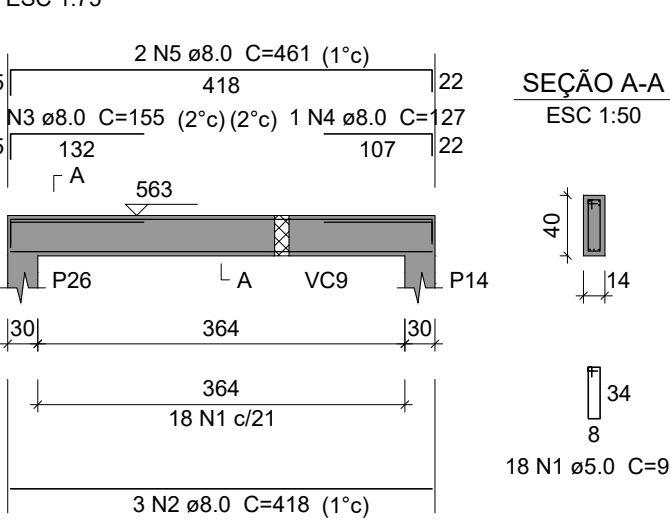
VC60 (14 x 45)



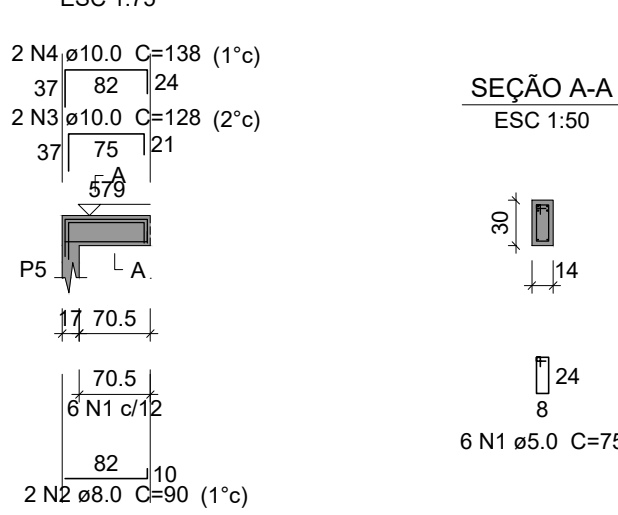
VC62 (14 x 40)



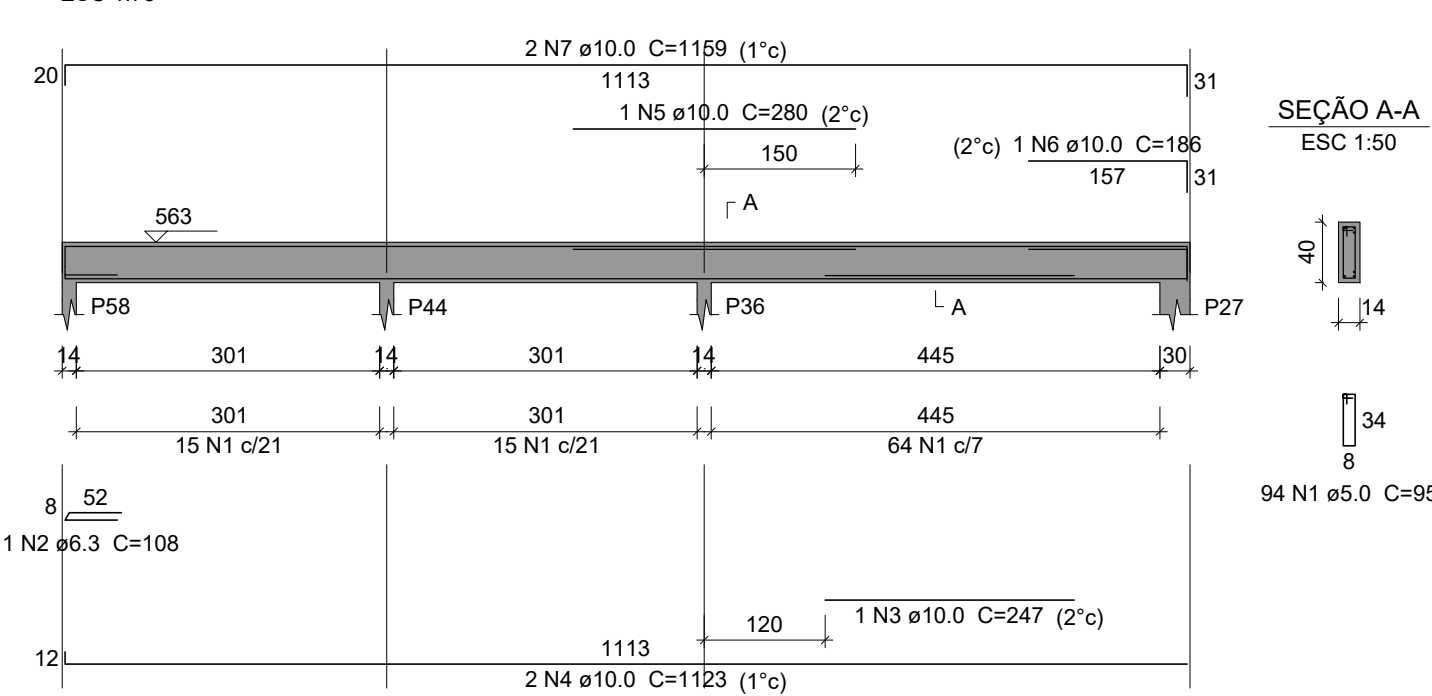
VC63 (14 x 40)



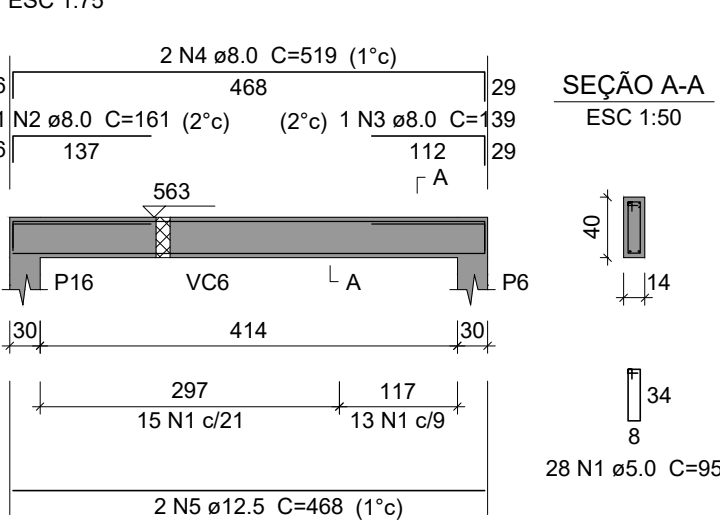
VC61 (14 x 30)



VC64 (14 x 40)



VC65 (14 x 40)



Relação do aço						
ELEMENTO	AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
VC57	CA60	1	5.0	43	95	4085
	CA50	2	8.0	1	234	234
	CA50	3	8.0	2	936	1872
	CA50	4	10.0	2	170	340
	CA50	5	10.0	1	184	184
VC58	CA50	6	10.0	2	986	1972
	CA60	1	5.0	6	65	390
	CA50	2	8.0	2	87	174
	CA50	3	10.0	2	129	258
	CA60	1	5.0	8	95	760
VC59	CA50	2	8.0	2	193	386
	CA50	3	8.0	2	239	478
	CA60	1	5.0	29	105	3045
	CA50	2	10.0	1	261	261
	CA50	3	10.0	2	741	1482
VC60	CA50	4	10.0	2	220	440
	CA50	5	10.0	1	180	180
	CA50	6	10.0	2	798	1596
	CA60	1	5.0	6	75	450
	CA50	2	8.0	2	90	180
VC61	CA50	3	10.0	2	128	256
	CA50	4	10.0	2	138	276
	CA60	1	5.0	29	95	2755
	CA50	2	8.0	1	436	436
	CA50	3	8.0	2	646	1292
VC62	CA50	4	8.0	1	145	145
	CA50	5	8.0	1	371	371
	CA50	6	8.0	2	693	1386
	CA60	1	5.0	18	95	1710
	CA50	2	8.0	3	418	1254
VC63	CA50	3	8.0	1	155	155
	CA50	4	8.0	1	127	127
	CA50	5	8.0	2	461	922
	CA60	1	5.0	94	95	8930
	CA50	2	6.3	1	108	108
VC64	CA50	3	10.0	1	247	247
	CA50	4	10.0	2	1123	2246
	CA50	5	10.0	1	280	280
	CA50	6	10.0	1	186	186
	CA50	7	10.0	2	1159	2318
VC65	CA60	1	5.0	28	95	2660
	CA50	2	8.0	1	161	161
	CA50	3	8.0	1	139	139
	CA50	4	8.0	2	519	1038
	CA50	5	12.5	2	468	936

Resumo do aço			
AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	6.3	1.1	0.3
	8.0	107.5	46.7
	10.0	125.3	84.9
	12.5	9.4	9.9
CA60	5.0	247.9	42
PESO TOTAL (kg)		Volume de concreto (C-25) = 2.41 m³	
CA50	141,8	Área de forma = 28.92 m²	
CA60	42		

PROJETO ESTRUTURAL

OBRA: PROMOTORIAS DE JUSTIÇA DE TOCANTINÓPOLIS

ENDEREÇO: RUA FLORIANO SANTOS, QUADRA 18, LOTE 02, TOCANTINÓPOLIS-TO

PROPRIETARIO: PROCURADORIA-GERAL DE JUSTIÇA - ESTADO DO TOCANTINS

ABEL ANDRADE LEAL JÚNIOR
PROCURADOR-GERAL DE JUSTIÇA - ESTADO DO TOCANTINS

AUTOR DO PROJETO:
RENATO ANTUNES MAGALHÃES
ENG. CIVIL - CREA: 308322-D/TO

RESPONSÁVEL TÉCNICO:

CONTEUDO:
- Forma do Pavimento Baldrame.

ÁREA TOTAL CONSTRUIDA:
1.174,15 m²

REVISÃO:
00

PRANCHA:

ESCALA:
INDICADA

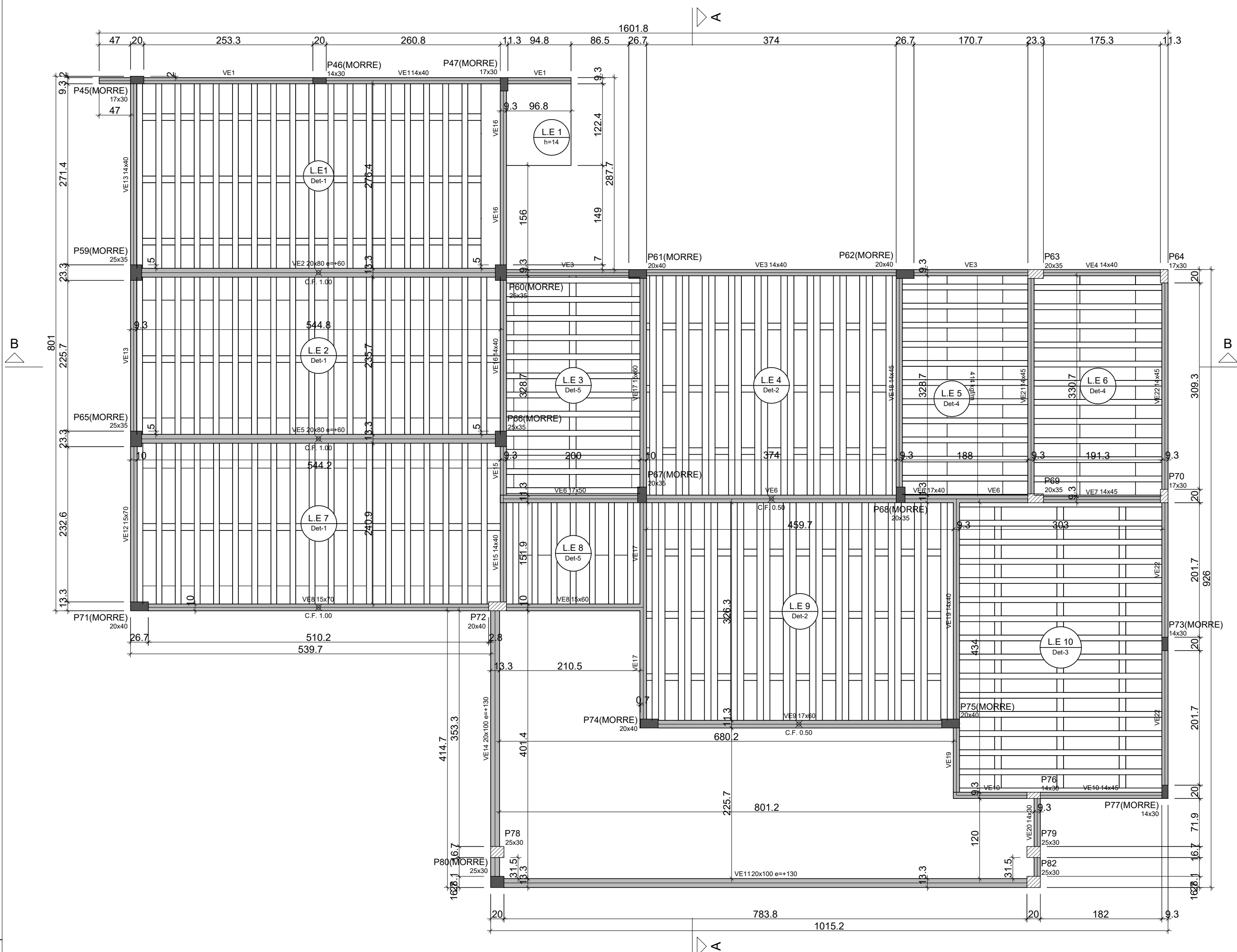
DATA:
SETEMBRO 2025

07/12



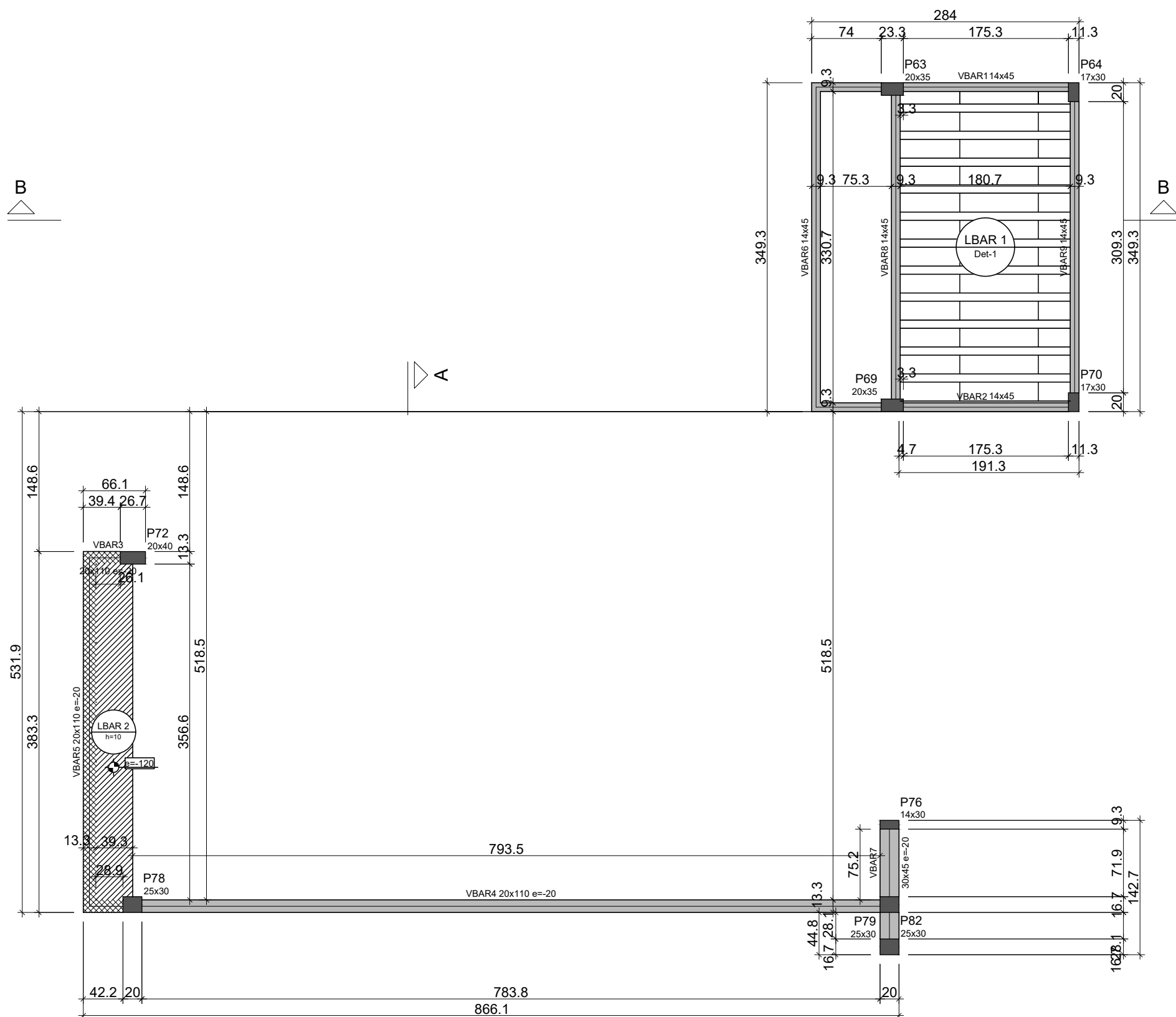
MINISTÉRIO PÚBLICO
ESTADO DO TOCANTINS

PROCURADORIA-GERAL DE JUSTIÇA



Forma do pavimento ENTRADA (Nível 613)

escala 1:75



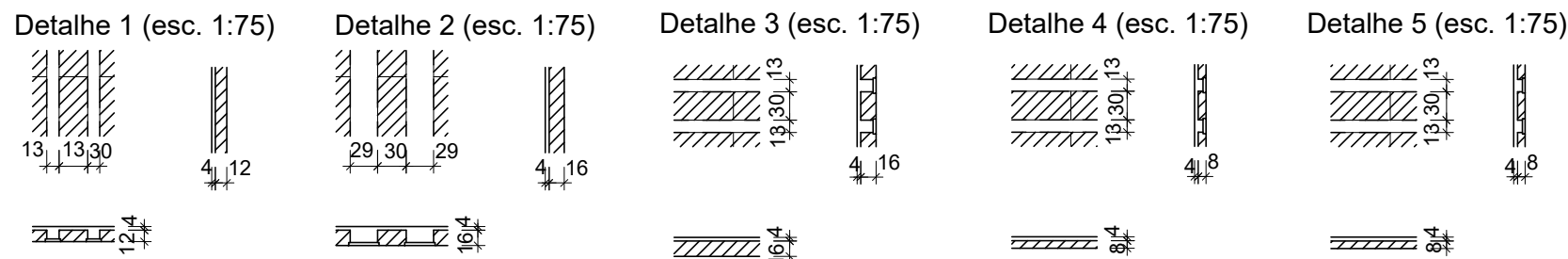
Forma do pavimento BARRILETE (Nível 873)

escala 1:75

Lajes do Nível Entrada								
Dados					Sobrecarga (kgf/m²)			
Nome	Tipo	Altura (cm)	Elevação (cm)	Nível (cm)	Peso próprio (kgf/m²)	Adicional	Acidental	Localizada
L.E 1	Treliçada 1D	16	0	613	215	157	150	-
L.E 1	Maciça	14	0	613	350	157	150	-
L.E 2	Treliçada 1D	16	0	613	204	157	150	-
L.E 3	Treliçada 1D	12	0	613	169	157	150	-
L.E 4	Treliçada 1D	20	0	613	320	157	150	-
L.E 5	Treliçada 1D	12	0	613	162	169	100	sim
L.E 6	Treliçada 1D	12	0	613	162	169	100	-
L.E 7	Treliçada 1D	16	0	613	204	157	150	-
L.E 8	Treliçada 1D	12	0	613	162	157	150	-
L.E 9	Treliçada 1D	20	0	613	320	157	150	-
L.E 10	Treliçada 1D	20	0	613	253	157	150	-

Legenda das vigas e paredes		Legenda dos pilares	
	Viga		Pilar que morre
			Pilar que passa

Blocos de enchimento do Nível Entrada						
Detalhe	Tipo	Nome	Dimensões(cm)			Quantidade
			hb	bx	by	
1	EPS Unidirecional	B12/30/125/7.5	12	30	125	224
2/3	EPS Unidirecional	B16/30/125/7.5	16	30	125	140
4/5	EPS Unidirecional	B8/30/125/7.5	8	30	125	128



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

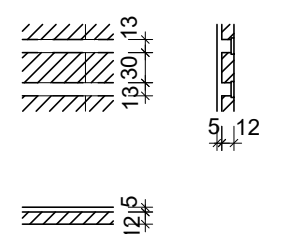
Dimensão máxima do agregado = 19 mm

Lajes								
Dados					Sobrecarga (kgf/m²)			
Nome	Tipo	Altura (cm)	Elevação (cm)	Nível (cm)	Peso próprio (kgf/m²)	Adicional	Acidental	Água
LBAR 1	Treliçada 1D	17	0	873	217	157	150	-
LBAR 2	Maciça	10	-120	753	250	157	150	0

Blocos de enchimento						
Detalhe	Tipo	Nome	Dimensões(cm)			Quantidade
			hb	bx	by	
1	EPS Unidirecional	B12/30/125/7.5	12	30	125	36

Legenda dos pilares	
	Pilar que morre
Legenda das vigas e paredes	
	Viga
	Viga chata ou invertida

Detalhe 1 (esc. 1:75)



Vigas do Nível barrilete			
Nome	Seção (cm)	Elevação (cm)	Nível (cm)
VBAR1	14x45	0	873
VBAR2	14x45	0	873
VBAR3	20x110	-20	853
VBAR4	20x110	-20	853
VBAR5	20x110	-20	853
VBAR6	14x45	0	873
VBAR7	30x45	-20	853
VBAR8	14x45	0	873
VBAR9	14x45	0	873

Pilares do Nível Barrilete			
Nome	Seção (cm)	Elevação (cm)	Nível (cm)
P63	20x35	0	873
P64	17x30	0	873
P69	20x35	0	873
P70	17x30	0	873
P72	20x40	-20	853
P76	14x30	-20	853
P78	25x30	-20	853
P79	25x30	-20	853
P82	25x30	-20	853

PROJETO ESTRUTURAL

OBRA: PROMOTORIAS DE JUSTIÇA DE TOCANTINÓPOLIS

ENDEREÇO: RUA FLORIANO SANTOS, QUADRA 18, LOTE 02, TOCANTINÓPOLIS-TO

PROPRIETÁRIO: PROCURADORIA-GERAL DE JUSTIÇA - ESTADO DO TOCANTINS

ABEL ANDRADE LEAL JÚNIOR
PROCURADOR-GERAL DE JUSTIÇA - ESTADO DO TOCANTINS

AUTOR DO PROJETO:

RENATO ANTUNES MAGALHÃES
ENG. CIVIL - CREA: 308322-D/TO

RESPONSÁVEL TÉCNICO:

CONTEÚDO:
- Detalhamento das Vigas Baldrame_01/04;
- Lista de materiais.

ÁREA TOTAL CONSTRUÍDA:
1.174,15 m²

REVISÃO: 00

DATA: SETEMBRO 2025

ESCALA: INDICADA

PRANCHA:

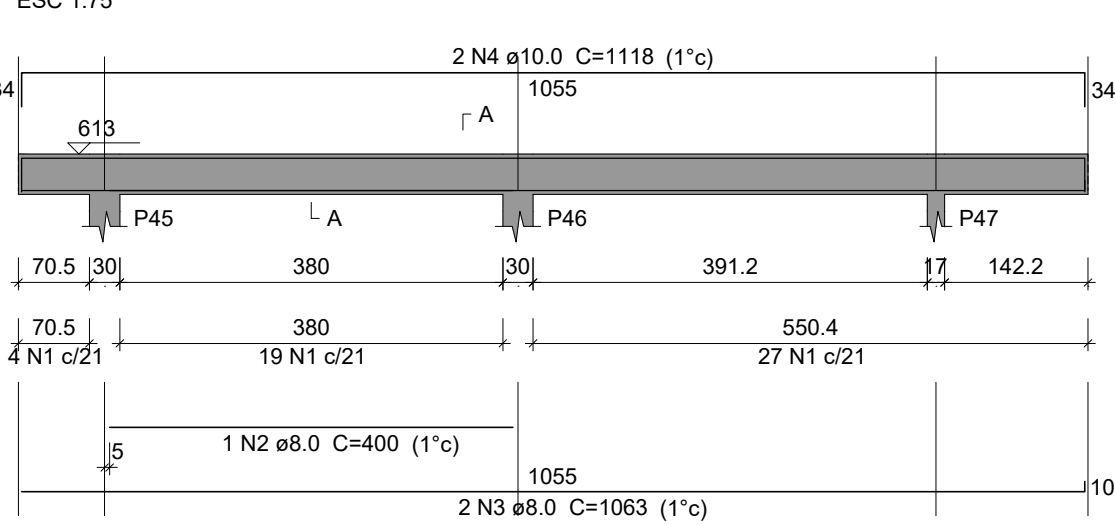
08/12



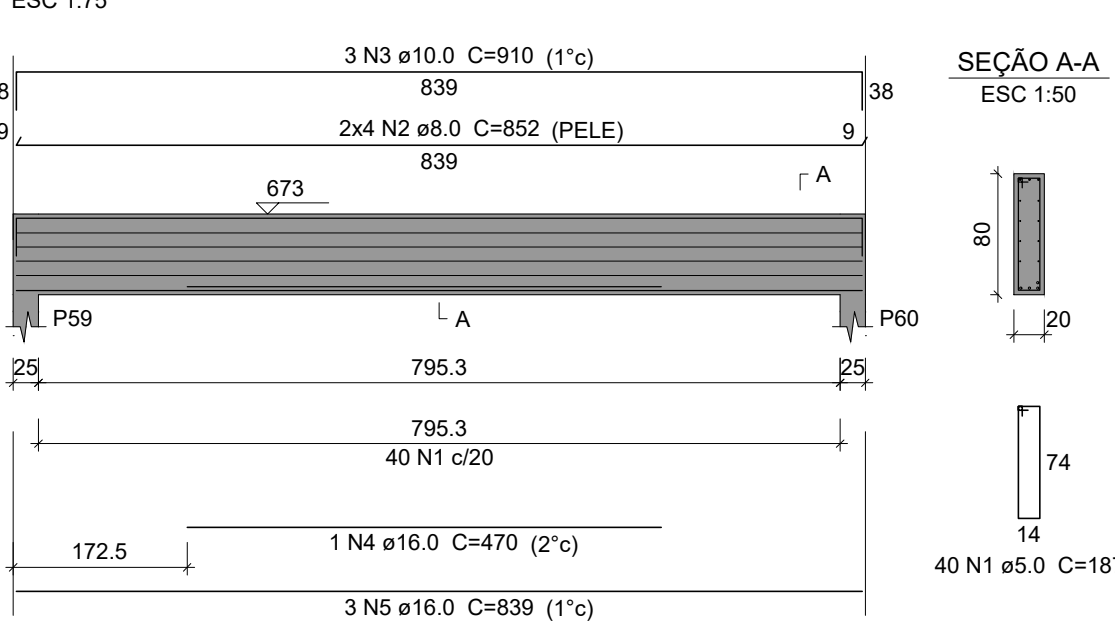
MINISTÉRIO PÚBLICO
ESTADO DO TOCANTINS

PROCURADORIA-GERAL DE JUSTIÇA

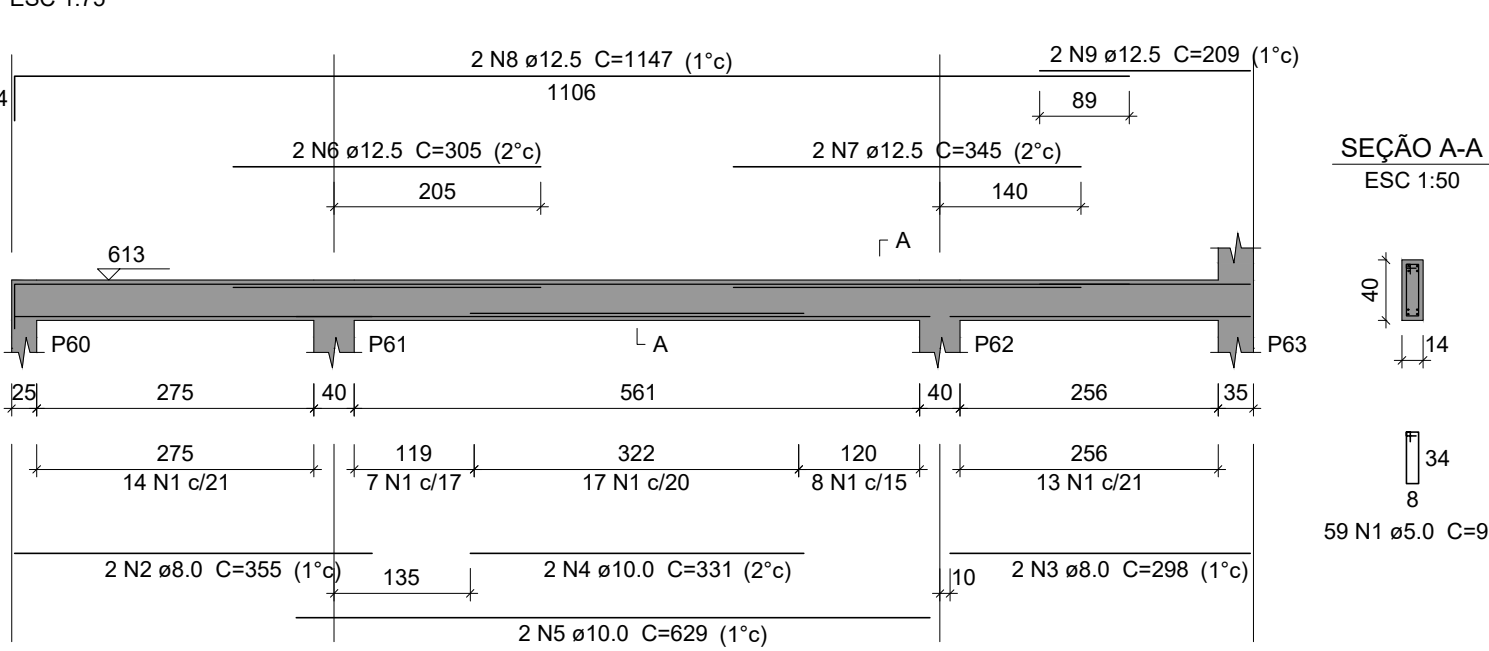
VE1 (14 x 40)



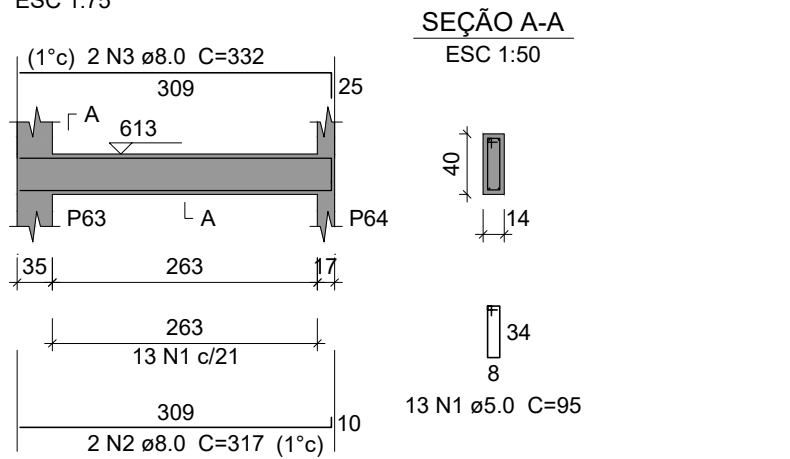
VE2 (20 x 80)



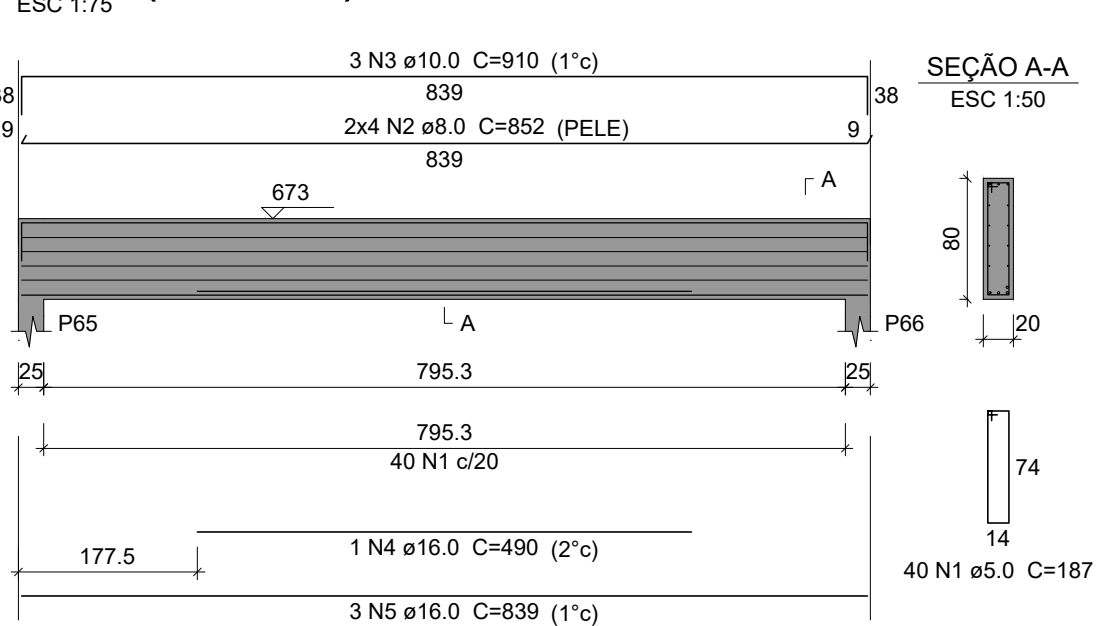
VE3 (14 x 40)



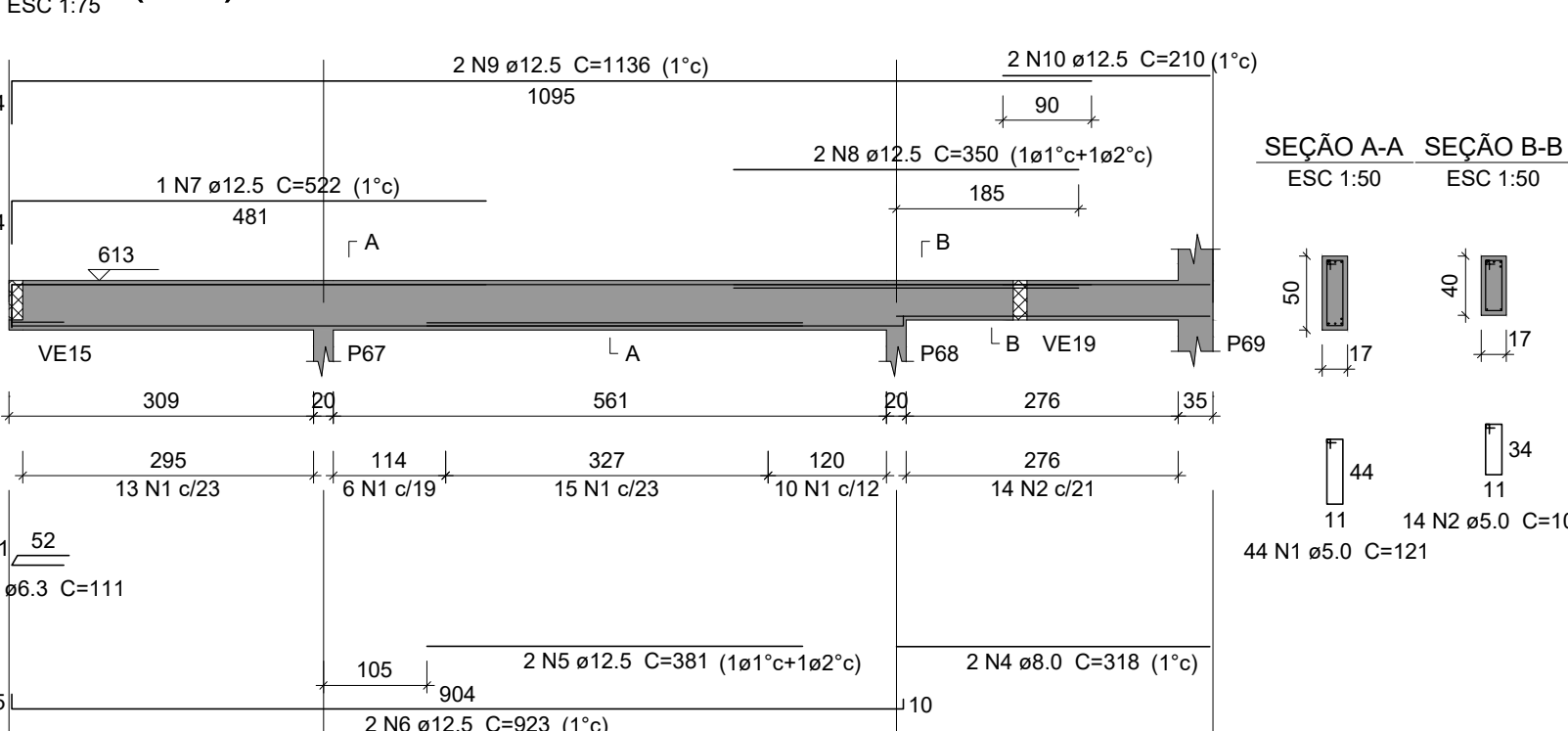
VE4 (14 x 40)



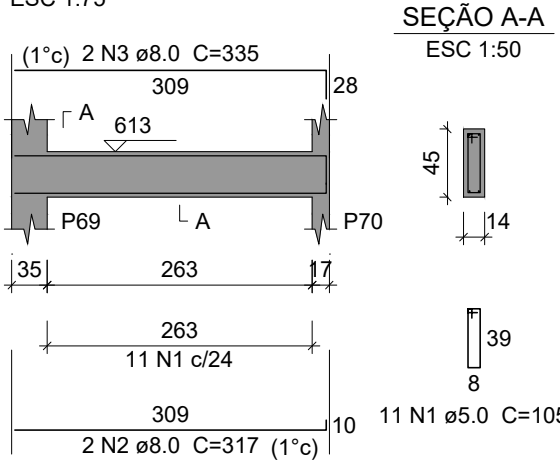
VE5 (20 x 80)



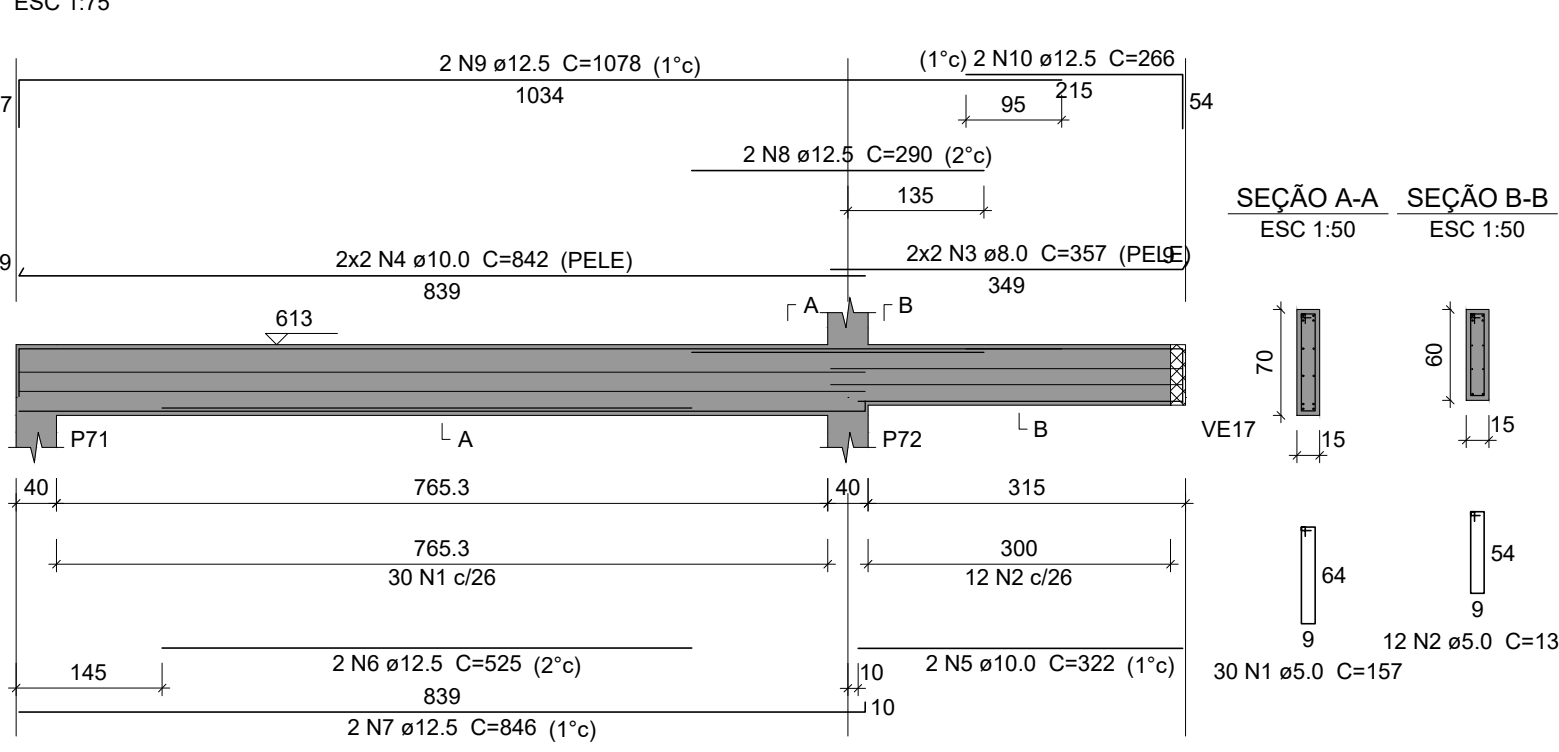
VE6 (var)



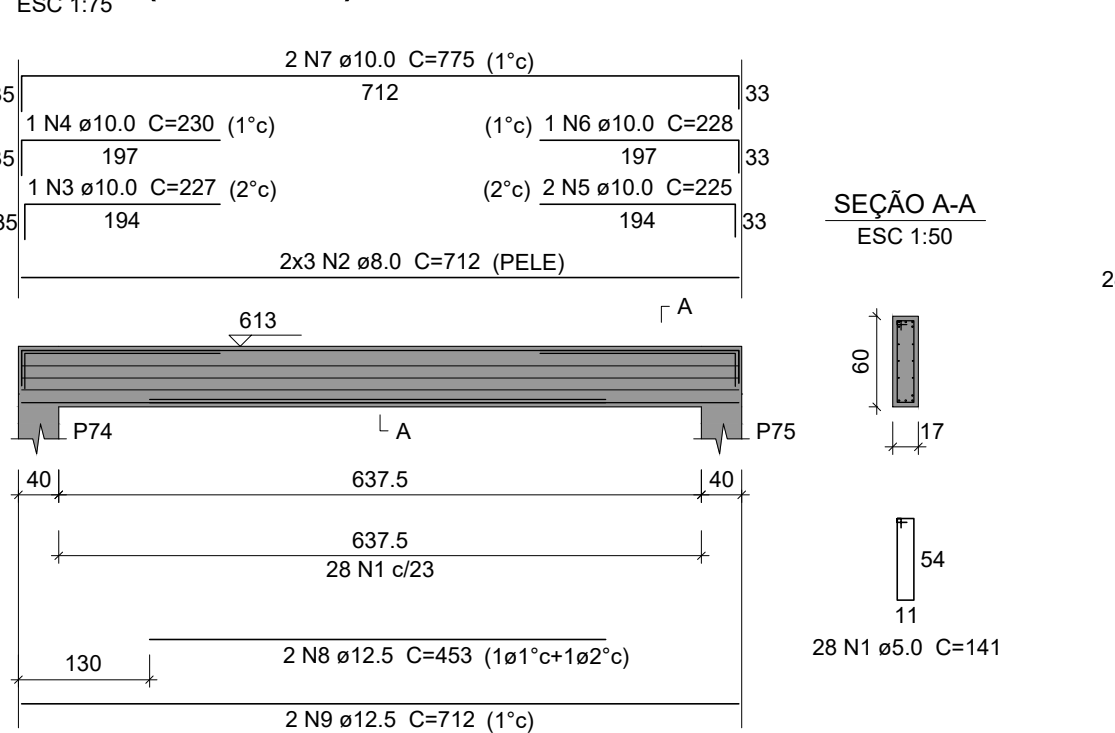
VE7 (14 x 45)



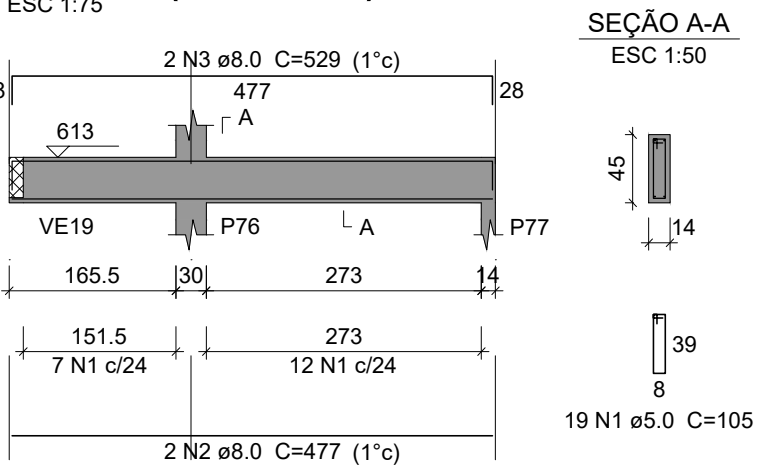
VE8 (var)



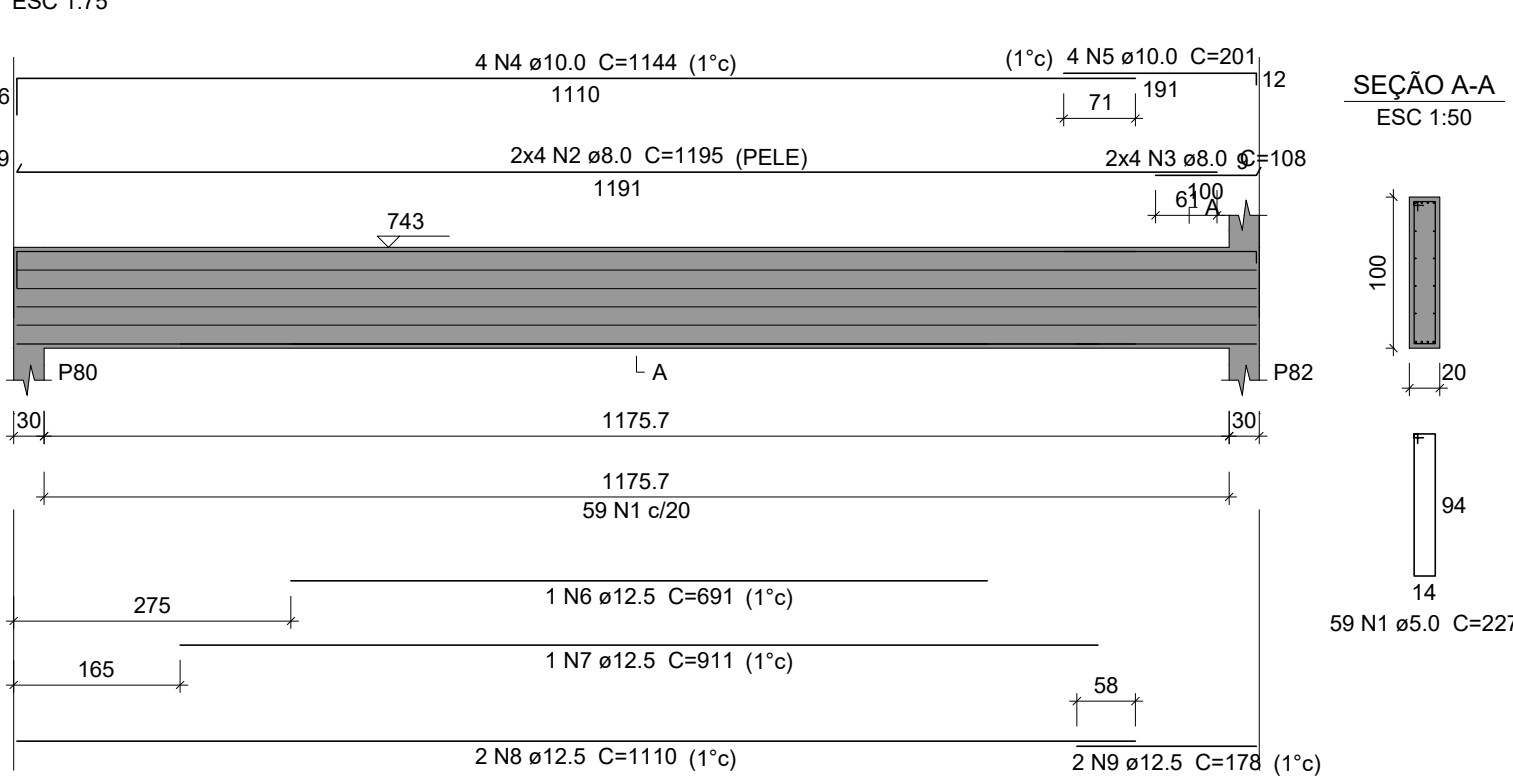
VE9 (17 x 60)



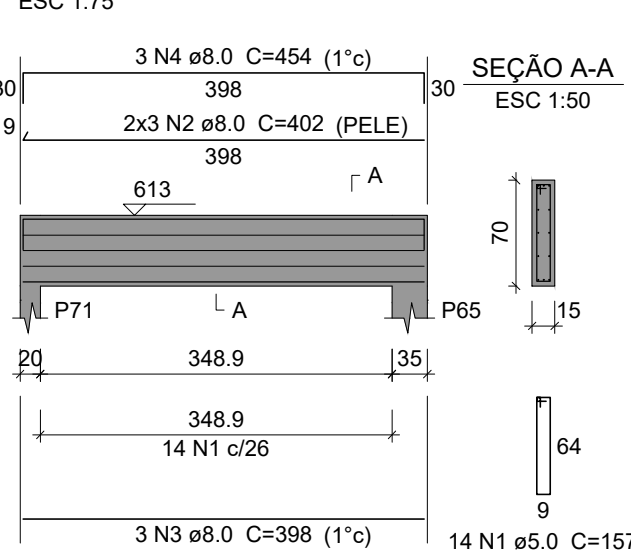
VE10 (14 x 45)



VE11 (20 x 100)



VE12 (15 x 70)



ELEMENTO	AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
VE15	CA60	1	5.0	17	95	1615
	CA50	2	8.0	2	398	796
	CA50	3	8.0	2	444	888
	CA50	4	8.0	1	178	178
	CA60	1	5.0	53	95	5035
VE16	CA50	2	8.0	2	626	1252
	CA50	3	8.0	2	872	1744
	CA50	4	10.0	1	174	174
	CA50	5	10.0	2	834	1668

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	6.3	1.2	0.3
	8.0	559.5	242.8
	10.0	300.2	203.6
	12.5	230.6	244.3
	16.0	60	104.1
CA60	5.0	815.8	138.3
PESO TOTAL (kg)			
CA50	795		
CA60	138.3		
Volume de concreto (C-25) = 11.84 m³			
Área de forma = 134.87 m²			

ELEMENTO	AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
VE1	CA60	1	5.0	50	95	4750
	CA50	2	8.0	1	400	400
	CA50	3	8.0	2	1063	2126
	CA50	4	10.0	2	1118	2236
	CA60	1	5.0	40	187	7480
VE2	CA50	2	8.0	8	852	6816
	CA50	3	10.0	3	910	2730
	CA50	4	16.0	1	470	470
	CA50	5	16.0	3	839	2517
	CA60	1	5.0	59	95	5605
VE3	CA50	2	8.0	2	355	710
	CA50	3	8.0	2	298	596
	CA50	4	10.0	2	331	662
	CA50	5	10.0	2	629	1258
	CA50	6	12.5	2	305	610
VE4	CA50	7	12.5	2	345	690
	CA50	8	12.5	2	1147	2294
	CA50	9	12.5	2	209	418
	CA60	1	5.0	13	95	1235
	CA50	2	8.0	2	317	634
VE5	CA50	3	8.0	2	332	664
	CA60	1	5.0	40	187	7480
	CA50	2	8.0	8	852	6816
	CA50	3	10.0	3	910	2730
	CA50	4	16.0	1	490	490
VE6	CA50	5	16.0	3	839	2517
	CA60	1	5.0	44	121	5324
	CA60	2	5.0	14	101	1414
	CA50	3	6.3	1	111	111
	CA50	4	8.0	2	318	636
VE7	CA50	5	12.5	2	381	762
	CA50	6	12.5	2	923	1846
	CA50	7	12.5	1	522	522
	CA50	8	12.5	2	350	700
	CA50	9	12.5	2	1136	2272
VE8	CA50	10	12.5	2	210	420
	CA60	1	5.0	11	105	1155
	CA50	2	8.0	2	317	634
	CA50	3	8.0	2	335	670
	CA60	1	5.0	30	157	4710
VE9	CA60	2	5.0	12	137	1644
	CA50	3	8.0	4	357	1428
	CA50	4	10.0	4	842	3368
	CA50	5	10.0	2	322	644
	CA50	6	12.5	2	525	1050
VE10	CA50	7	12.5	2	846	1692
	CA50	8	12.5	2	290	580
	CA50	9	12.5	2	1078	2156
	CA50	10	12.5	2	266	532
	CA60	1	5.0	28	141	3948
VE11	CA50	2	8.0	6	712	4272
	CA50	3	10.0	1	227	227
	CA50	4	10.0	1	230	230
	CA50	5	10.0	2	225	450
	CA50	6	10.0	1	228	228
VE12	CA50	7	10.0	2	775	1550
	CA50	8	12.5	2	453	906
	CA50	9	12.5	2	712	1424
	CA60	1	5.0	19	105	1995
	CA50	2	8.0	2	477	954
VE13	CA50	3	8.0	2	529	1058
	CA60	1	5.0	59	227	13393
	CA50	2	8.0	8	1195	9560
	CA50	3	8.0	8	108	864
	CA50	4	10.0	4	1144	4576
VE14	CA50	5	10.0	4	201	804
	CA50	6	12.5	1	691	691
	CA50	7	12.5	1	911	911
	CA50	8	12.5	2	1110	2220
	CA50	9	12.5	2	178	356

PROJETO ESTRUTURAL

OBRA: PROMOTORIAS DE JUSTIÇA DE TOCANTINÓPOLIS

ENDEREÇO: RUA FLORIANO SANTOS, QUADRA 18, LOTE 02, TOCANTINÓPOLIS-TO

PROPRIETÁRIO: PROCURADORIA-GERAL DE JUSTIÇA - ESTADO DO TOCANTINS

ABEL ANDRADE LEAL JÚNIOR
PROCURADOR-GERAL DE JUSTIÇA - ESTADO DO TOCANTINS

AUTOR DO PROJETO: RENATO ANTUNES MAGALHÃES
ENG. CIVIL - CREA: 308322-D/TO

RESPONSÁVEL TÉCNICO:

CONTEÚDO:
- Detalhamento das Vigas da entrada_01/02;
- Lista de materiais.

ÁREA TOTAL CONSTRUÍDA:
1.174,15 m²

REVISÃO: 00

DATA: SETEMBRO 2025

ESCALA: INDICADA

PRANCHA:

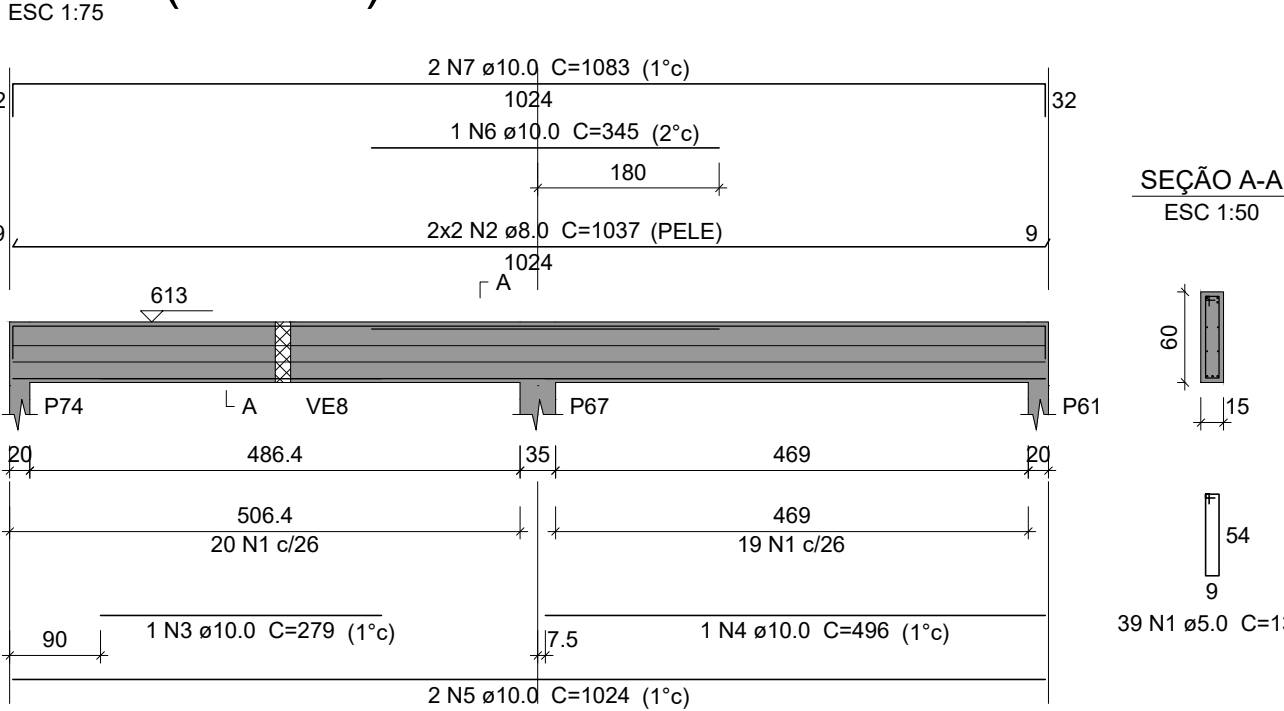
09/12



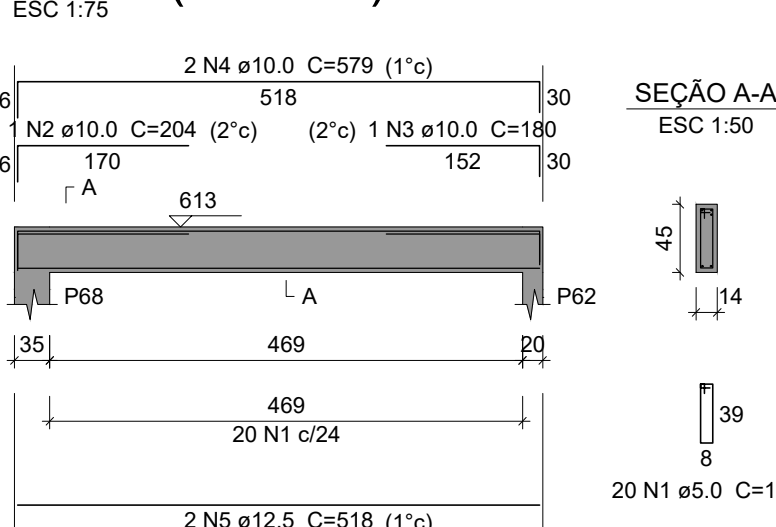
MINISTÉRIO PÚBLICO
ESTADO DO TOCANTINS

PROCURADORIA-GERAL DE JUSTIÇA

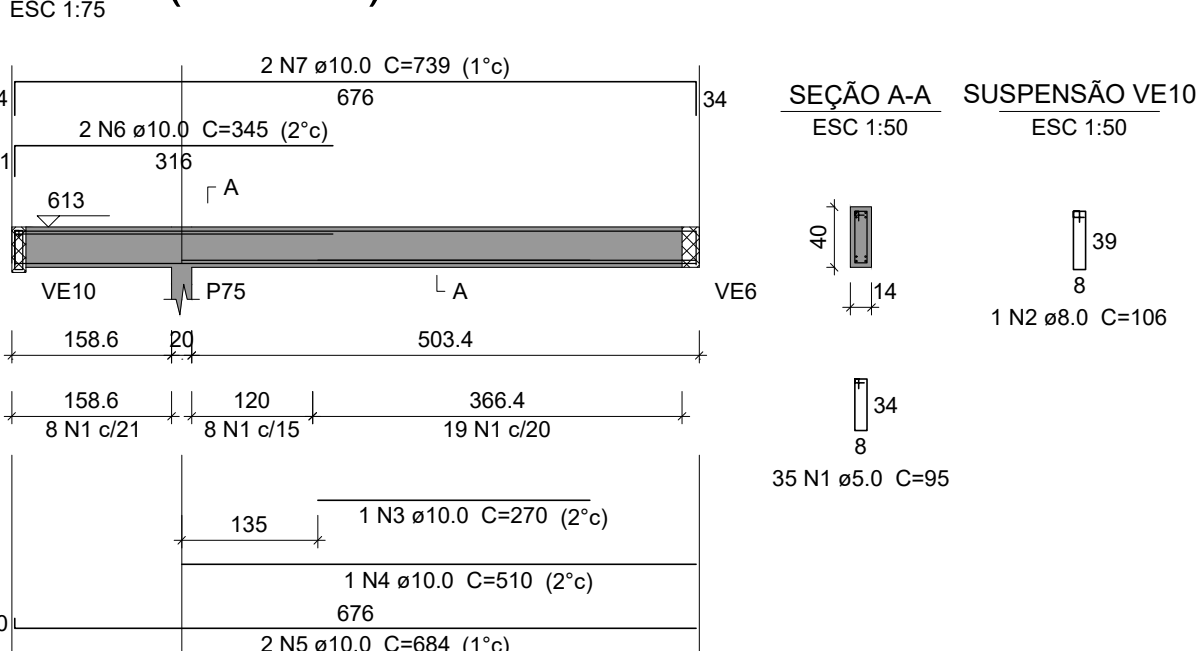
VE17 (15 x 60)



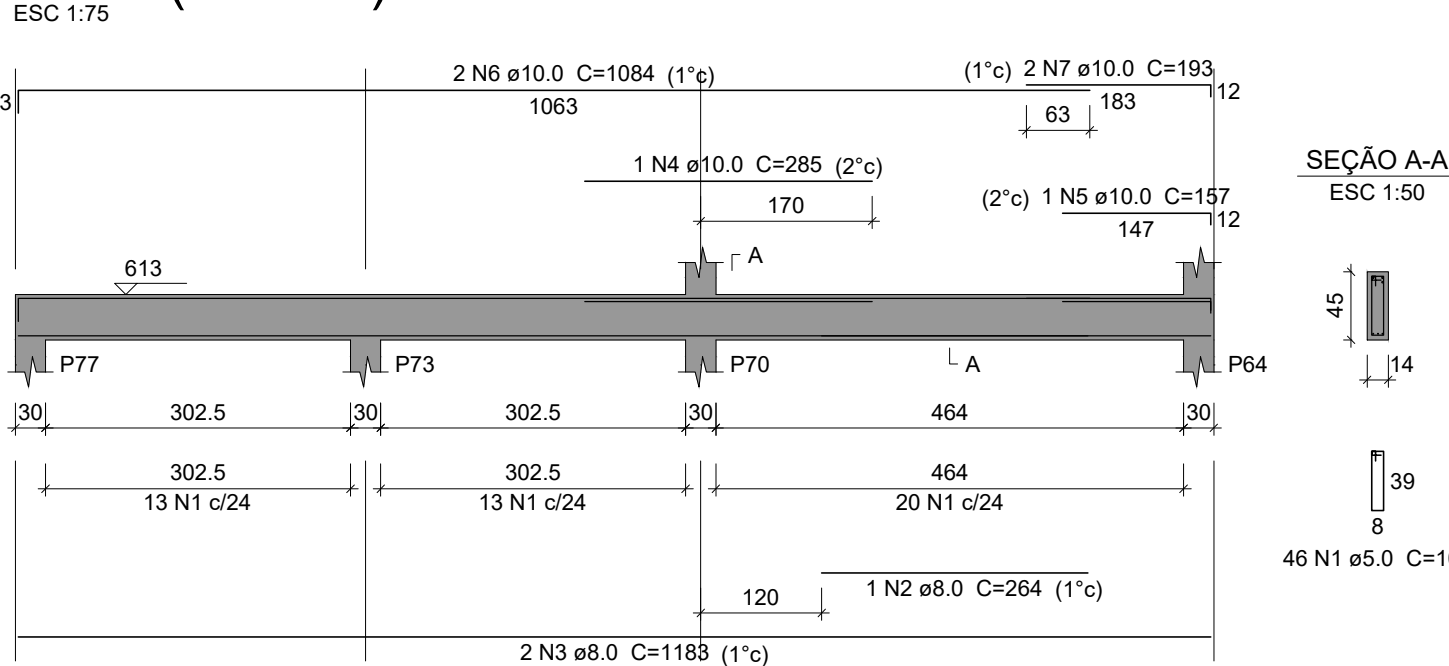
VE18 (14 x 45)



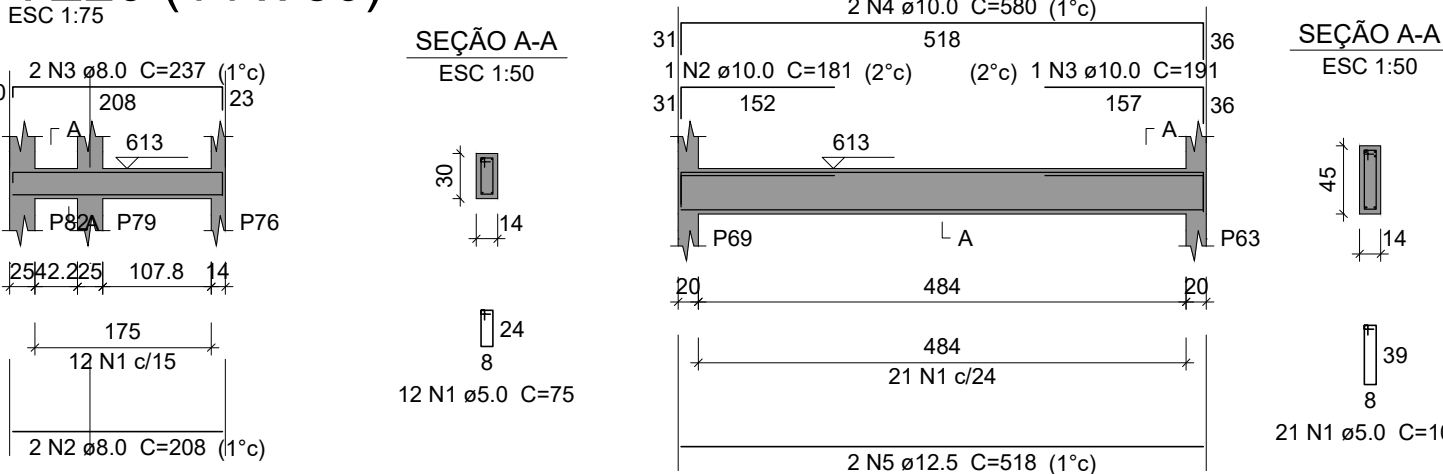
VE19 (14 x 40)



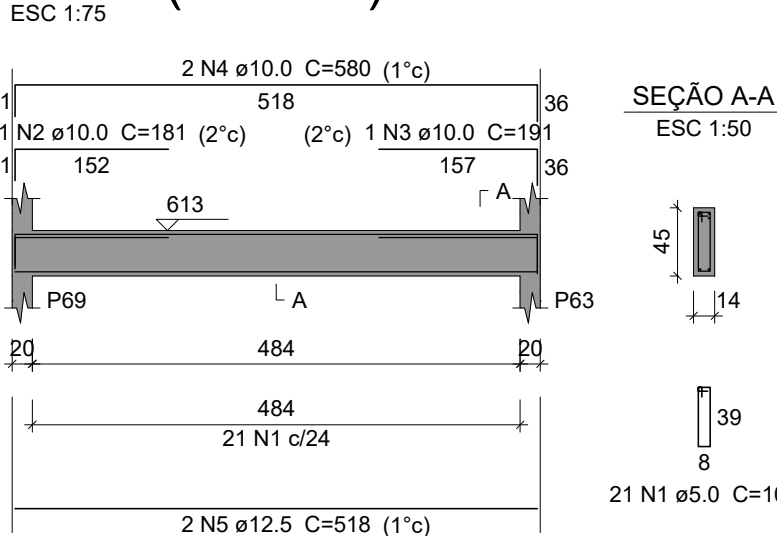
VE22 (14 x 45)



VE20 (14 x 30)

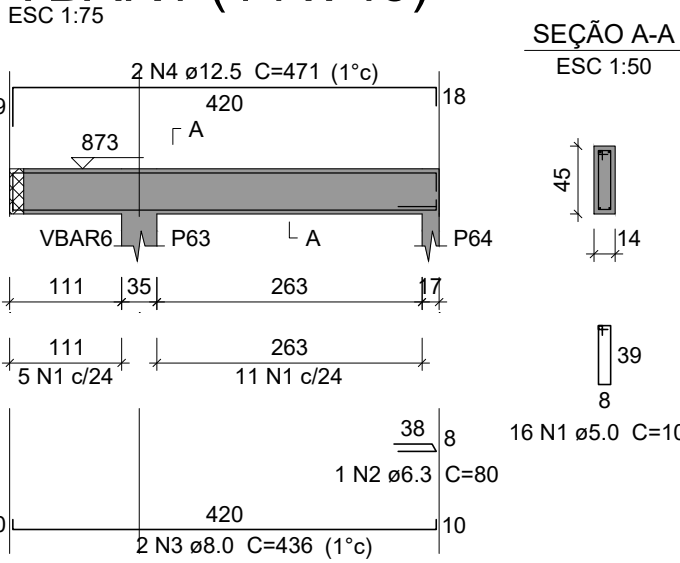


VE21 (14 x 45)

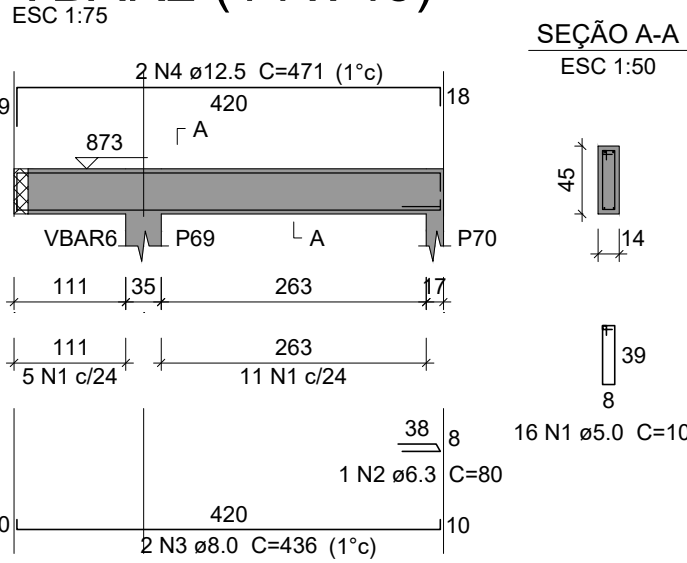


Resumo do aço				
AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)	
CA50	6.3	7.5	2	
	8.0	340.3	147.7	
	10.0	174.4	118.3	
	12.5	177.5	188	
CA60	5.0	572.3	97	
PESO TOTAL (kg)		Volume de concreto (C-25) = 8.17 m³		
CA50	455.9	Área de forma = 97.02 m²		
CA60	97			

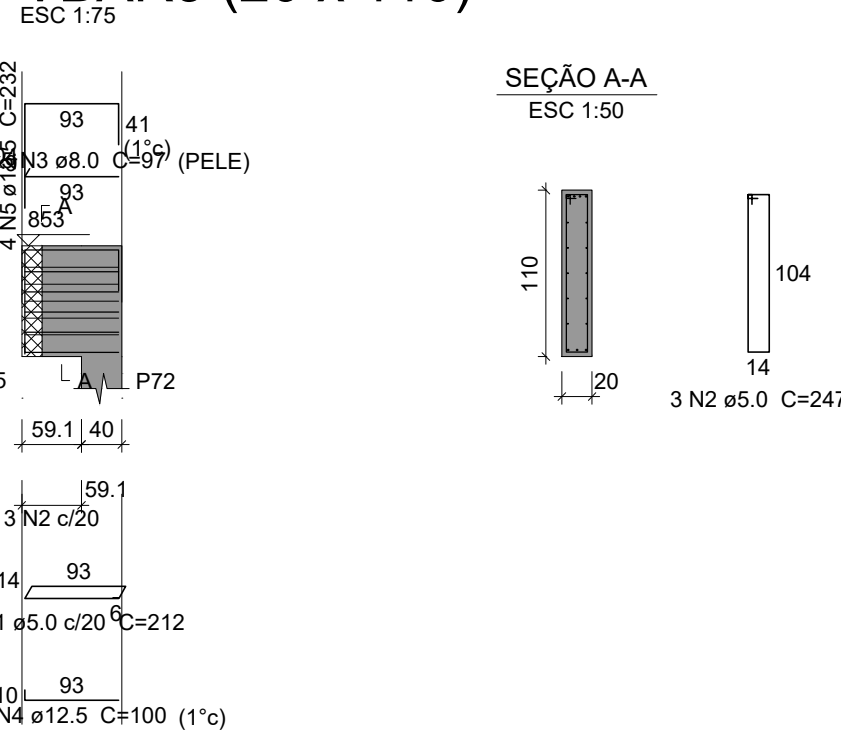
VBAR1 (14 x 45)



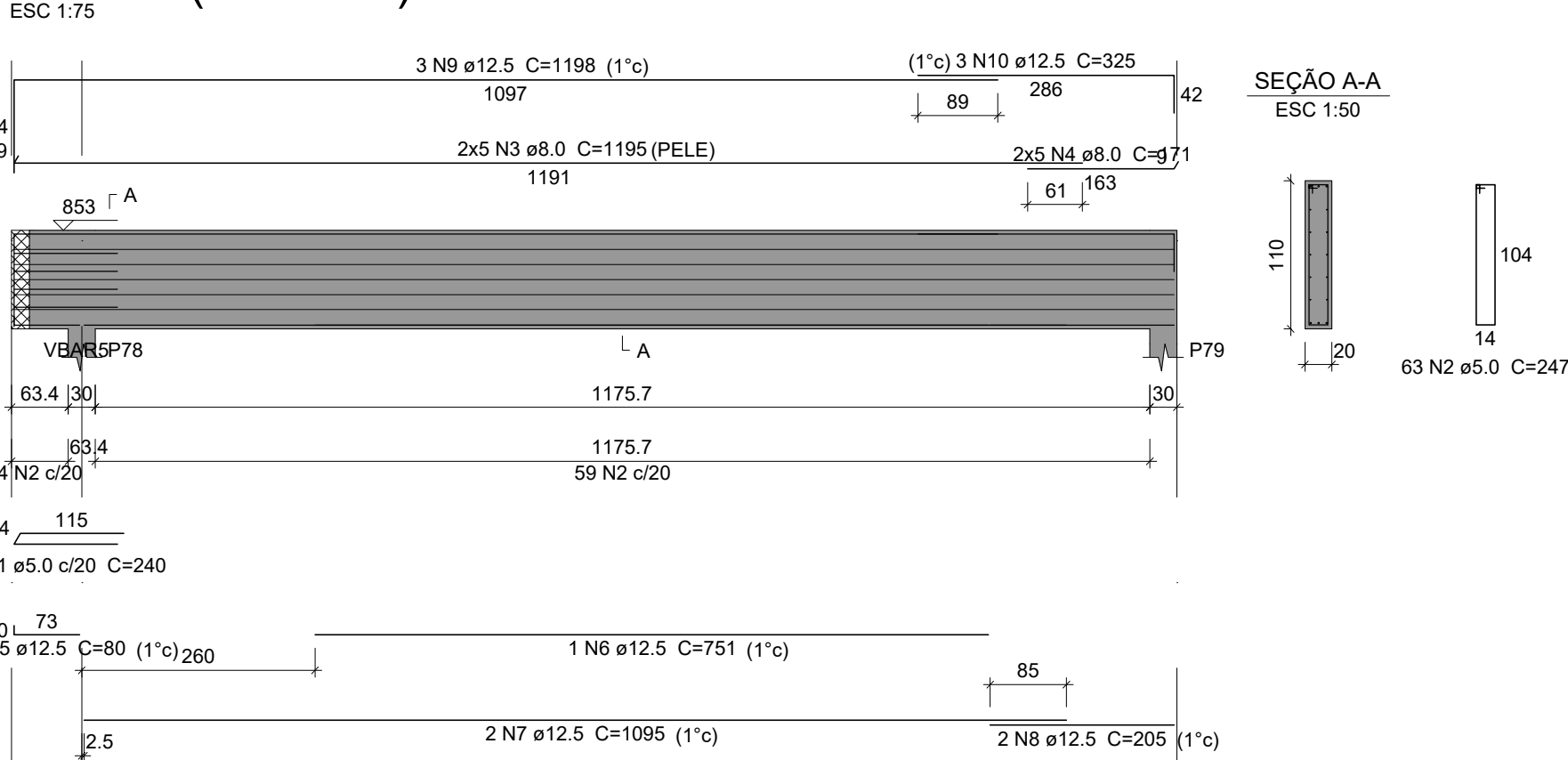
VBAR2 (14 x 45)



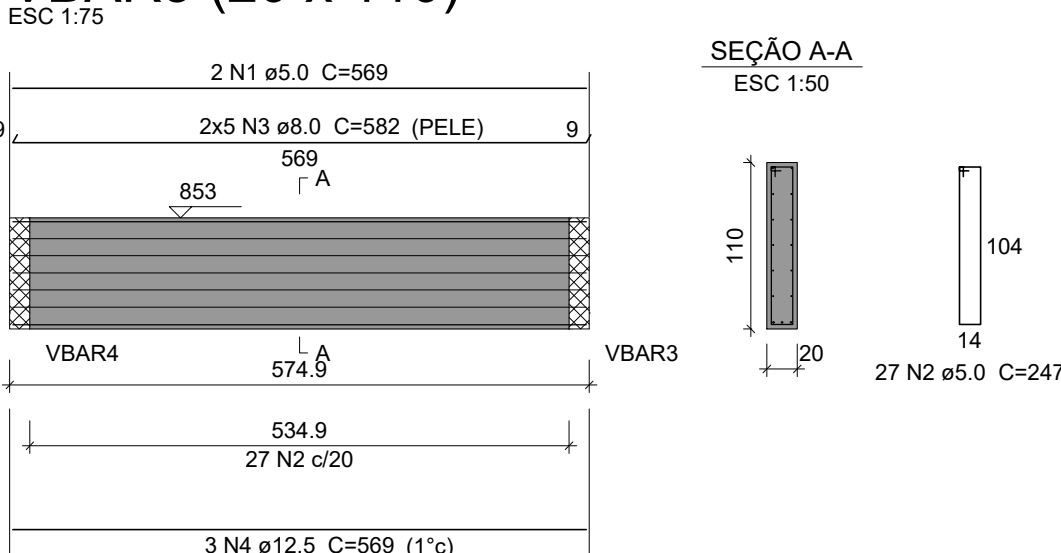
VBAR3 (20 x 110)



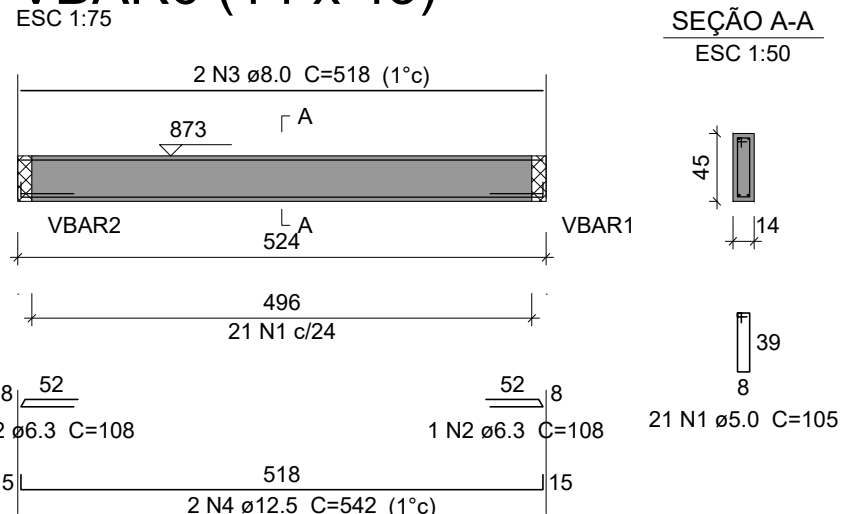
VBAR4 (20 x 110)



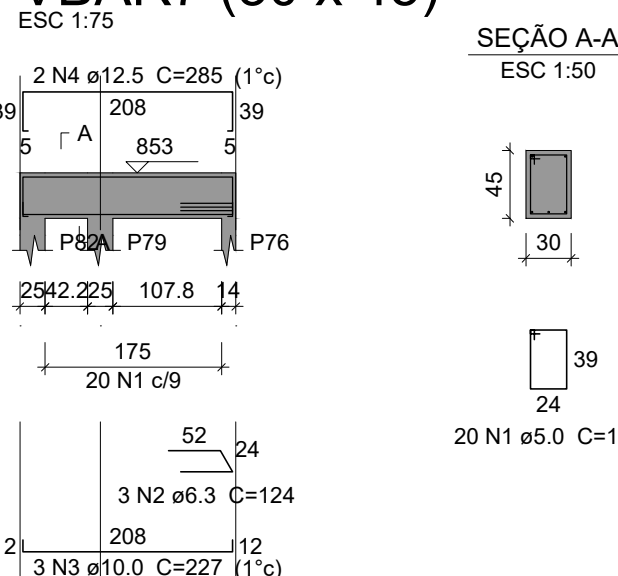
VBAR5 (20 x 110)



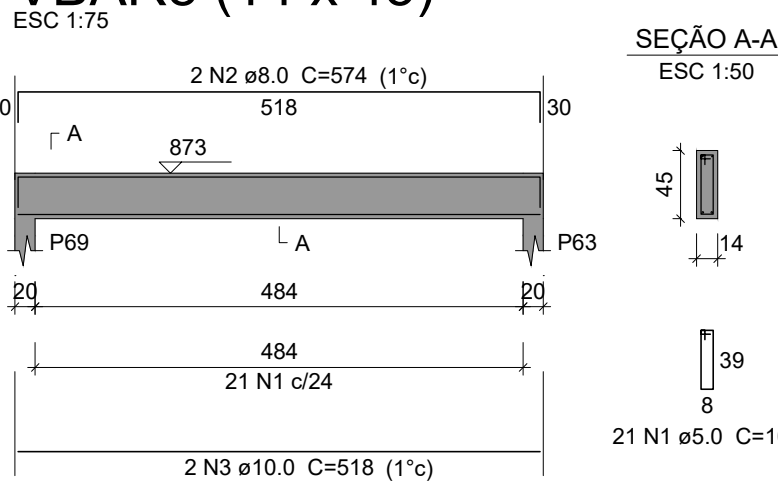
VBAR6 (14 x 45)



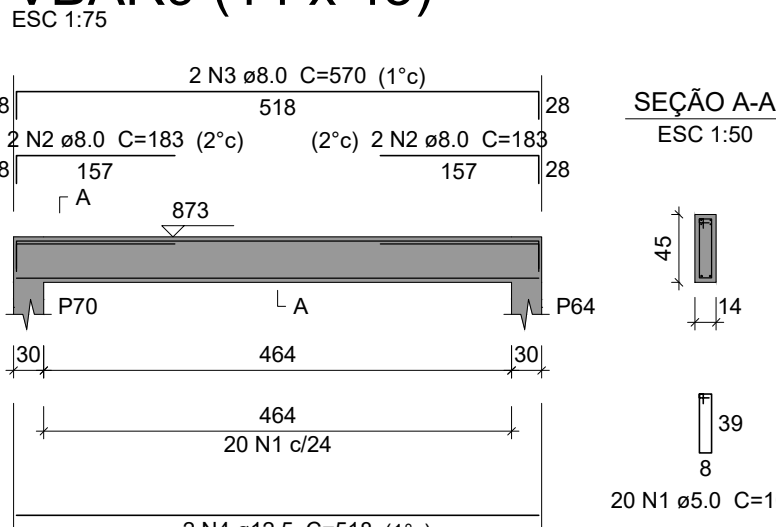
VBAR7 (30 x 45)



VBAR8 (14 x 45)



VBAR9 (14 x 45)



Relação do aço						
ELEMENTO	AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
BARRILETE	CA60	1	5.0	16	105	1680
	CA50	2	6.3	1	80	80
	CA50	3	8.0	2	436	872
	CA50	4	12.5	2	471	942
VBAR2	CA60	1	5.0	16	105	1680
	CA50	2	6.3	1	80	80
	CA50	3	8.0	2	436	872
	CA50	4	12.5	2	471	942
VBAR3	CA60	1	5.0	4	212	848
	CA60	2	5.0	3	247	741
	CA50	3	8.0	10	97	970
	CA50	4	12.5	3	100	300
VBAR4	CA50	5	12.5	4	232	928
	CA60	1	5.0	4	240	960
	CA60	2	5.0	63	247	15561
	CA50	3	8.0	10	1195	11950
VBAR5	CA50	4	8.0	10	171	1710
	CA50	5	12.5	3	80	240
	CA50	6	12.5	1	751	751
	CA50	7	12.5	2	1096	2190
VBAR6	CA50	8	12.5	2	205	410
	CA50	9	12.5	3	1198	3594
	CA50	10	12.5	3	325	975
	CA60	1	5.0	2	569	1138
VBAR7	CA60	2	5.0	27	247	6669
	CA50	3	8.0	10	582	5820
	CA50	4	12.5	3	569	1707
	CA60	1	5.0	21	105	2205
VBAR8	CA50	2	6.3	2	108	216
	CA50	3	8.0	2	518	1036
	CA50	4	12.5	2	542	1084
	CA60	1	5.0	20	137	2740
VBAR9	CA50	2	6.3	3	124	372
	CA50	3	10.0	3	227	681
	CA50	4	12.5	2	285	570
	CA60	1	5.0	21	105	2205
ENTRADA VE17	CA60	1	5.0	39	137	5343
	CA50	2	8.0	4	1037	4148
	CA50	3	10.0	1	279	279
	CA50	4	10.0	1	496	496
VE18	CA50	5	10.0	2	1024	2048
	CA50	6	10.0	1	345	345
	CA50	7	10.0	2	1083	2166
	CA60	1	5.0	20	105	2100
VE19	CA50	2	10.0	1	204	204
	CA50	3	10.0	1	180	180
	CA50	4	10.0	2	579	1158
	CA50	5	12.5	2	518	1036
VE20	CA60	1	5.0	35	95	3325
	CA50	2	8.0	1	106	106
	CA50	3	10.0	1	270	270
	CA50	4	10.0	1	510	510
VE21	CA50	5	10.0	2	684	1368
	CA50	6	10.0	2	345	690
	CA50	7	10.0	2	739	1478
	CA60	1	5.0	12	75	900
VE22	CA50	2	8.0	2	208	416
	CA50	3	8.0	2	237	474
	CA60	1	5.0	21	105	2205
	CA50	2	10.0	1	181	181
VBAR1	CA50	3	10.0	1	191	191
	CA50	4	10.0	2	580	1160
	CA50	5	12.5	2	518	1036
	CA60	1	5.0	46	105	4830
VBAR2	CA50	2	8.0	1	284	284
	CA50	3	8.0	2	1183	2366
	CA50	4	10.0	1	285	285
	CA50	5	10.0	1	157	157
VBAR3	CA50	6	10.0	2	1084	2168
	CA50	7	10.0	2	193	386

PROJETO ESTRUTURAL

OBRA: PROMOTORIAS DE JUSTIÇA DE TOCANTINÓPOLIS

ENDEREÇO: RUA FLORIANO SANTOS, QUADRA 18, LOTE 02, TOCANTINÓPOLIS-TO

PROPRIETÁRIO: PROCURADORIA-GERAL DE JUSTIÇA - ESTADO DO TOCANTINS

ABEL ANDRADE LEAL JÚNIOR
PROCURADOR-GERAL DE JUSTIÇA - ESTADO DO TOCANTINS

AUTOR DO PROJETO: RENATO ANTUNES MAGALHÃES
ENG. CIVIL - CREA: 308322-D/TO

RESPONSÁVEL TÉCNICO:

CONTEÚDO:
- Detalhamento das Vigas da entrada_02/02;
- Detalhamento das Vigas do barrilete;
- Lista de materiais.

ÁREA TOTAL CONSTRUÍDA:
1.174,15 m²

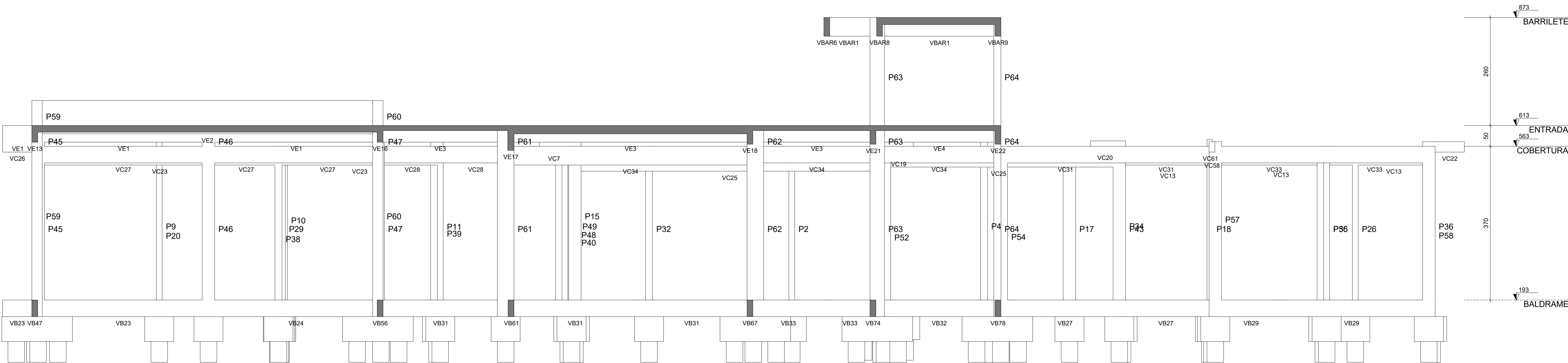
REVISÃO: 00

DATA: SETEMBRO 2025

ESCALA: INDICADA



PROCURADORIA-GERAL DE JUSTIÇA



Corte B-B
escala 1:50

PROJETO ESTRUTURAL

OBRA: PROMOTORIAS DE JUSTIÇA DE TOCANTINÓPOLIS

ENDEREÇO: RUA FLORIANO SANTOS, QUADRA 18, LOTE 02, TOCANTINÓPOLIS-TO

PROPRIETÁRIO: PROCURADORIA-GERAL DE JUSTIÇA - ESTADO DO TOCANTINS

ABEL ANDRADE LEAL JÚNIOR
PROCURADOR-GERAL DE JUSTIÇA - ESTADO DO TOCANTINS

AUTOR DO PROJETO:
RENATO ANTUNES MAGALHÃES
ENG. CIVIL - CREA: 308322-D/TO
RESPONSÁVEL TÉCNICO:

CONTEÚDO:
- CORTE AA:
- CORTE CC:

ÁREA TOTAL CONSTRUIDA:
1.174,15 m²
REVISÃO:
00

ESCALA:
INDICADA

DATA:
SETEMBRO 2025

PRANCHA:
12/12



MINISTÉRIO PÚBLICO
ESTADO DO TOCANTINS

PROCURADORIA-GERAL DE JUSTIÇA