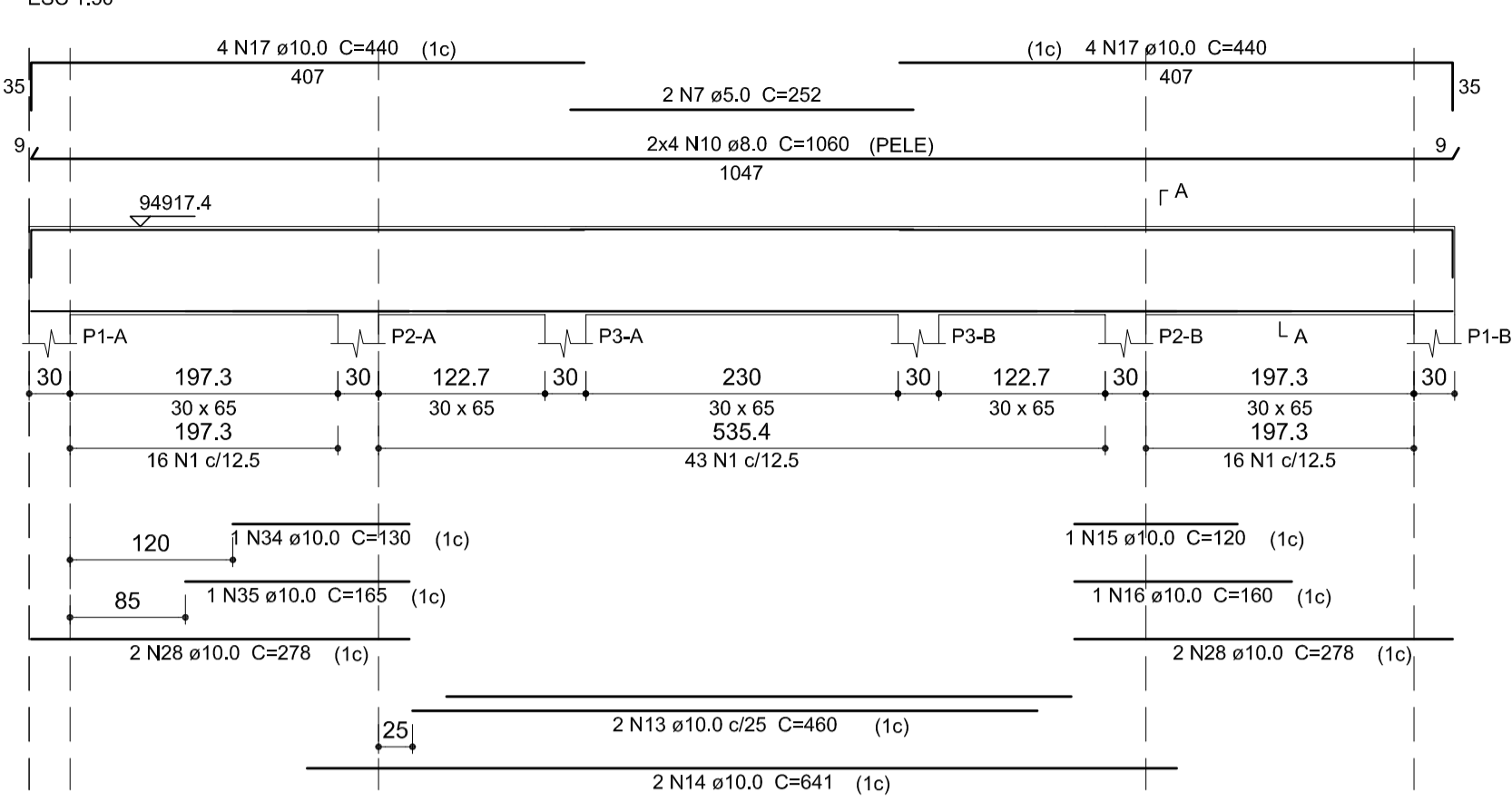


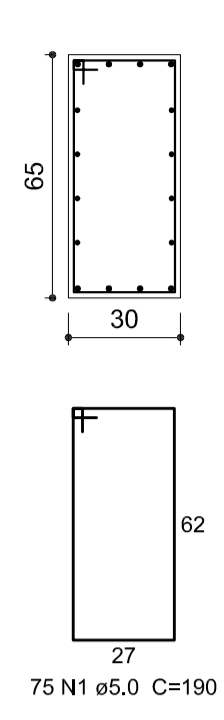
CONFIGURAÇÃO DE PAINÉIS EM PRETO
 31 81 93 94
 COR_10 30 110 113 116 160 251 254 255
 COR_01 02 03 04 05 06 07 08 252 253 180 50
 ESP_08 02 02 05 05 05 06 01 01 02 02
 ESP_01 01 02 03 04 05 06 07 08 09 05 100 140

COLOR 70% DA COR
 31 81 93 94
 COR_10 30 110 113 116 160 251 254 255
 COR_01 02 03 04 05 06 07 08 252 253 180 50
 ESP_08 02 02 05 05 05 06 01 01 02 02
 ESP_01 01 02 03 04 05 06 07 08 09 05 100 140

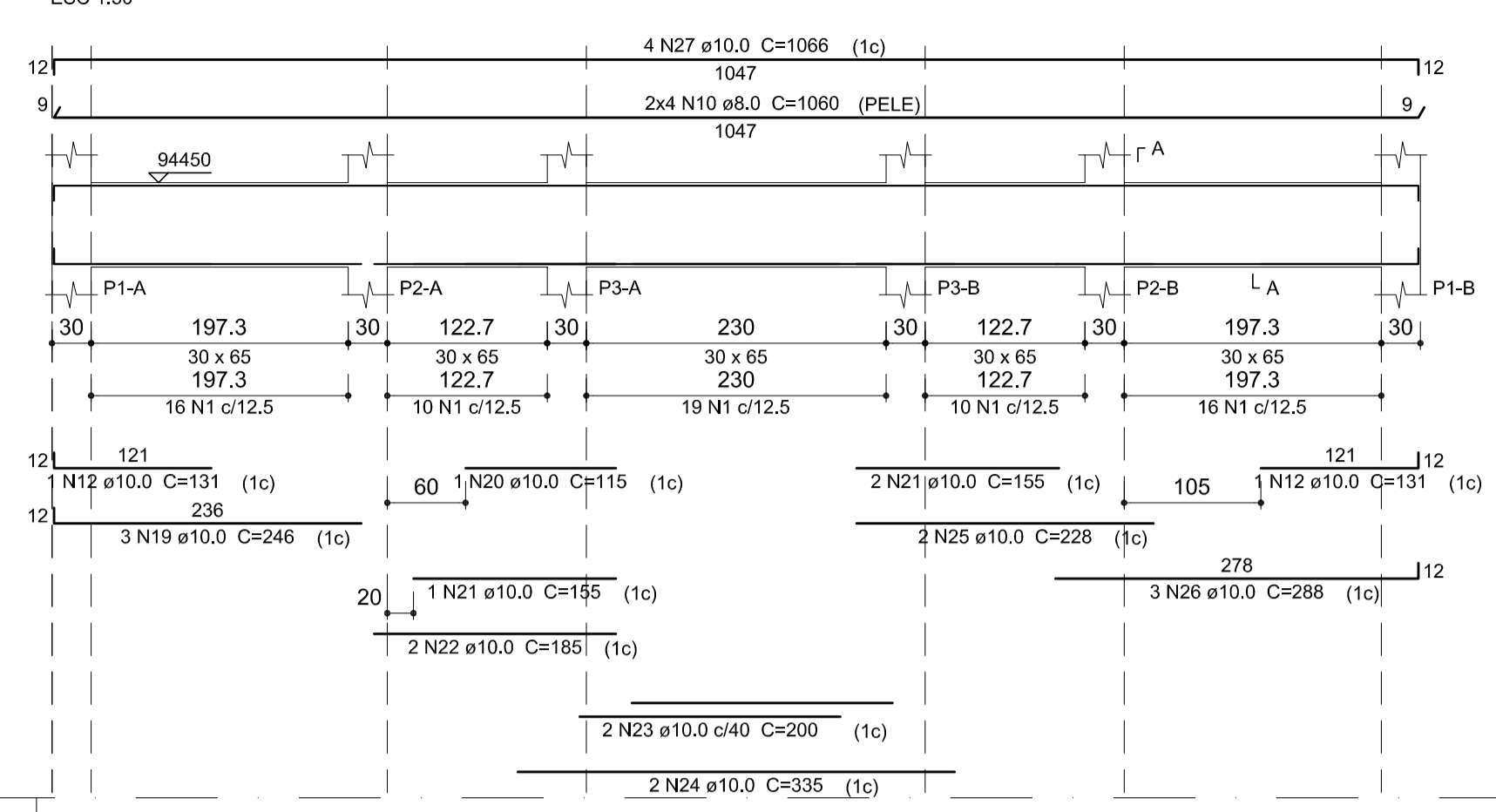
VIGA TOPO (30 x 65)



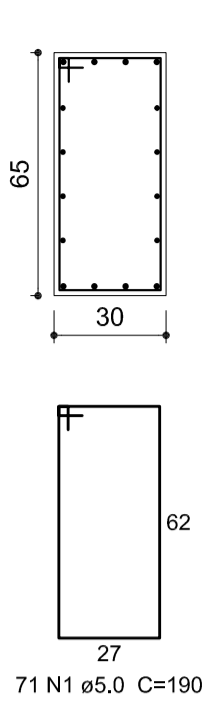
SEÇÃO A-A



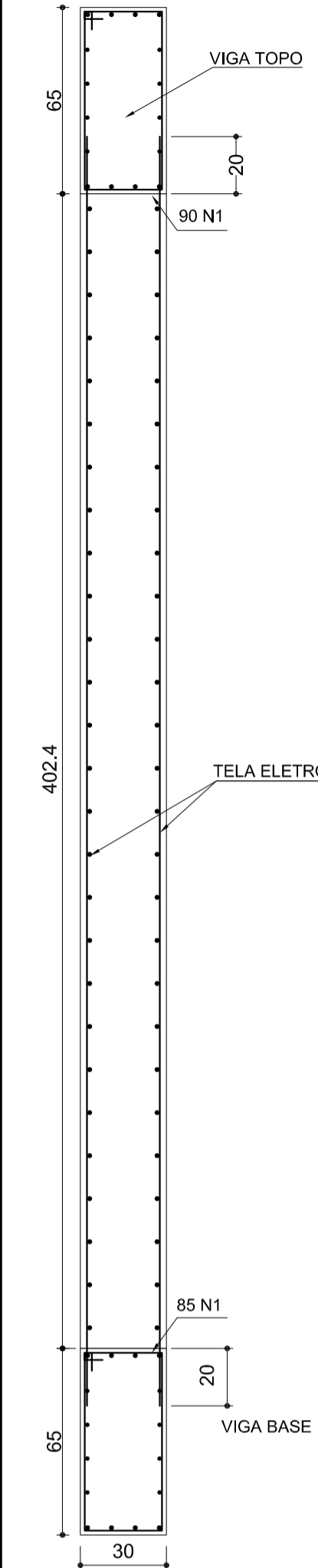
VIGA BASE (30 x 65)



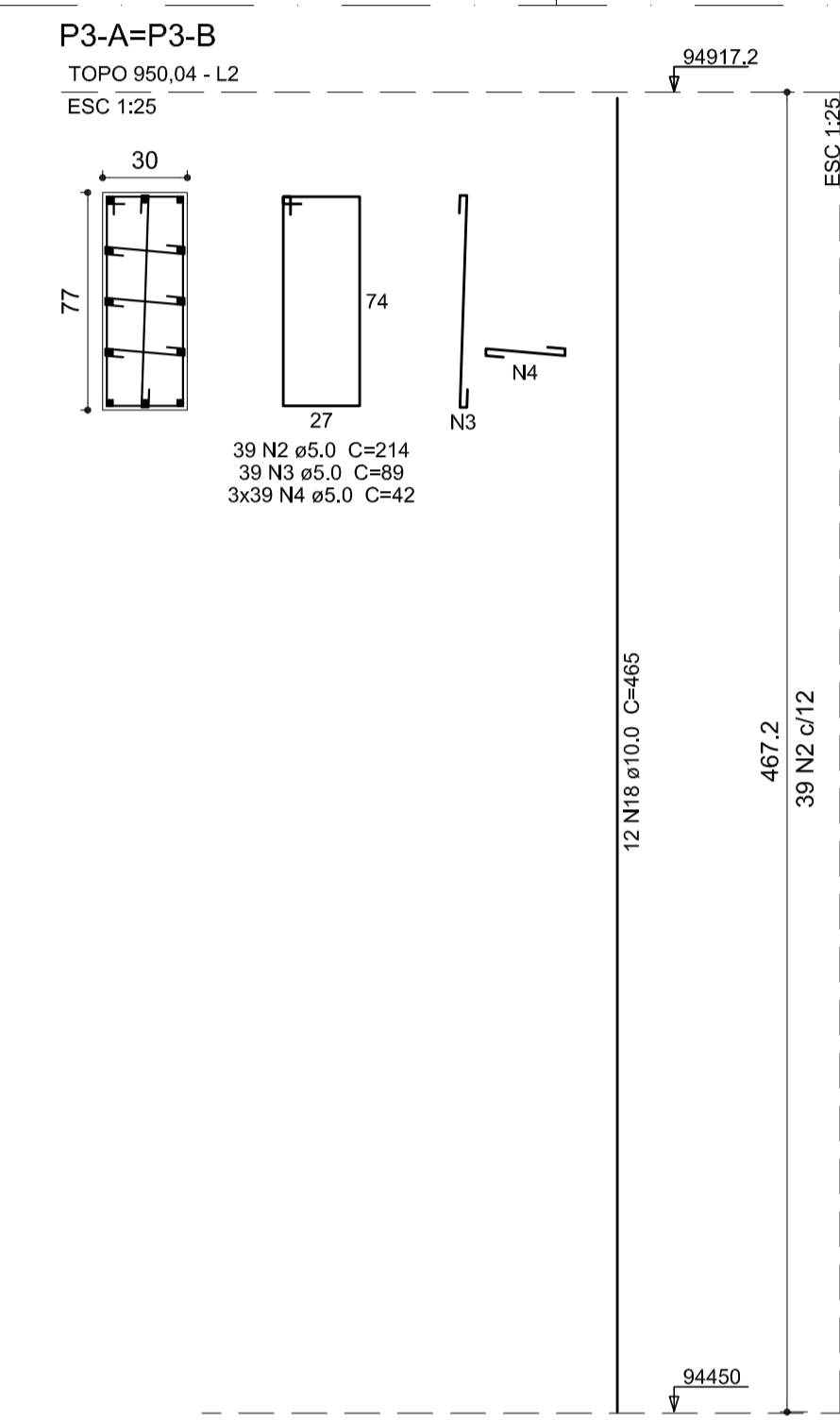
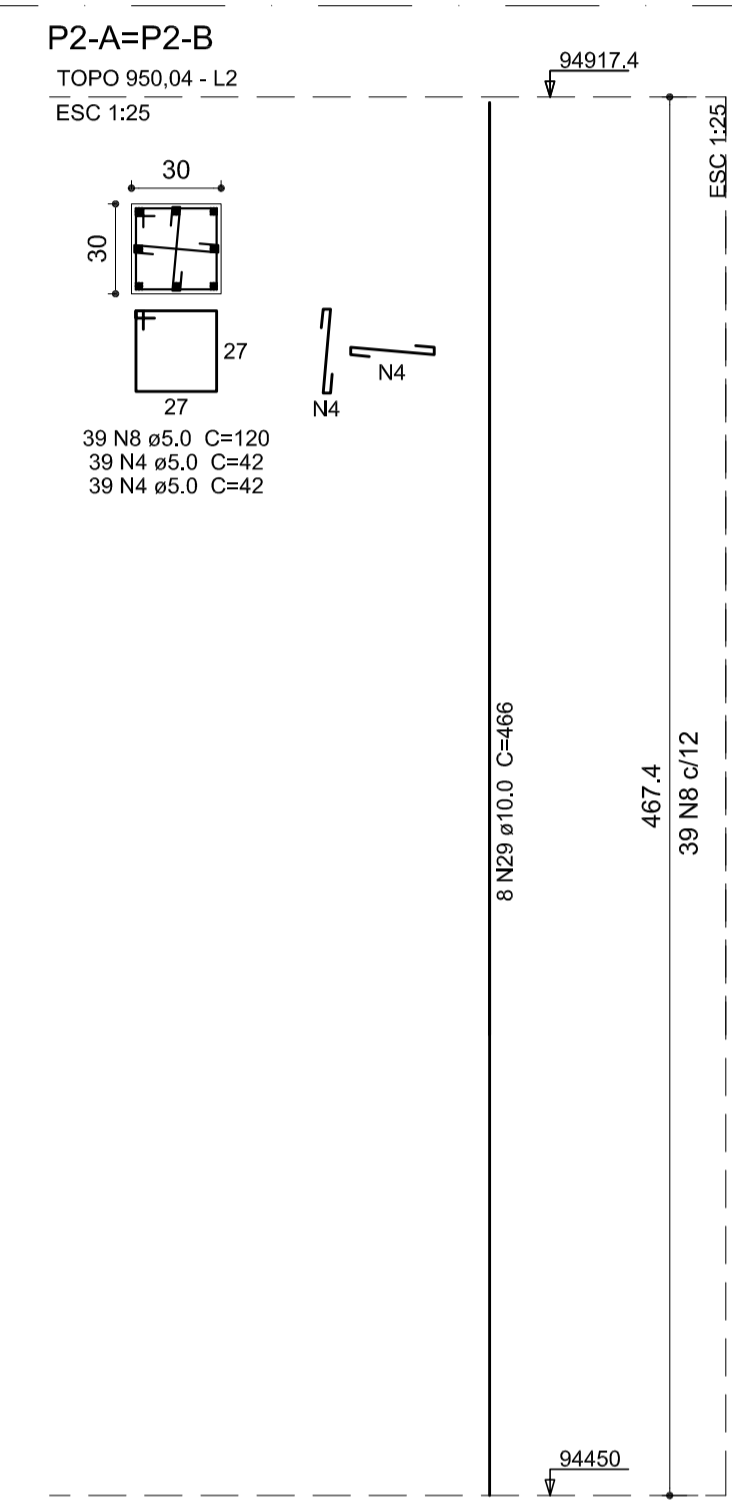
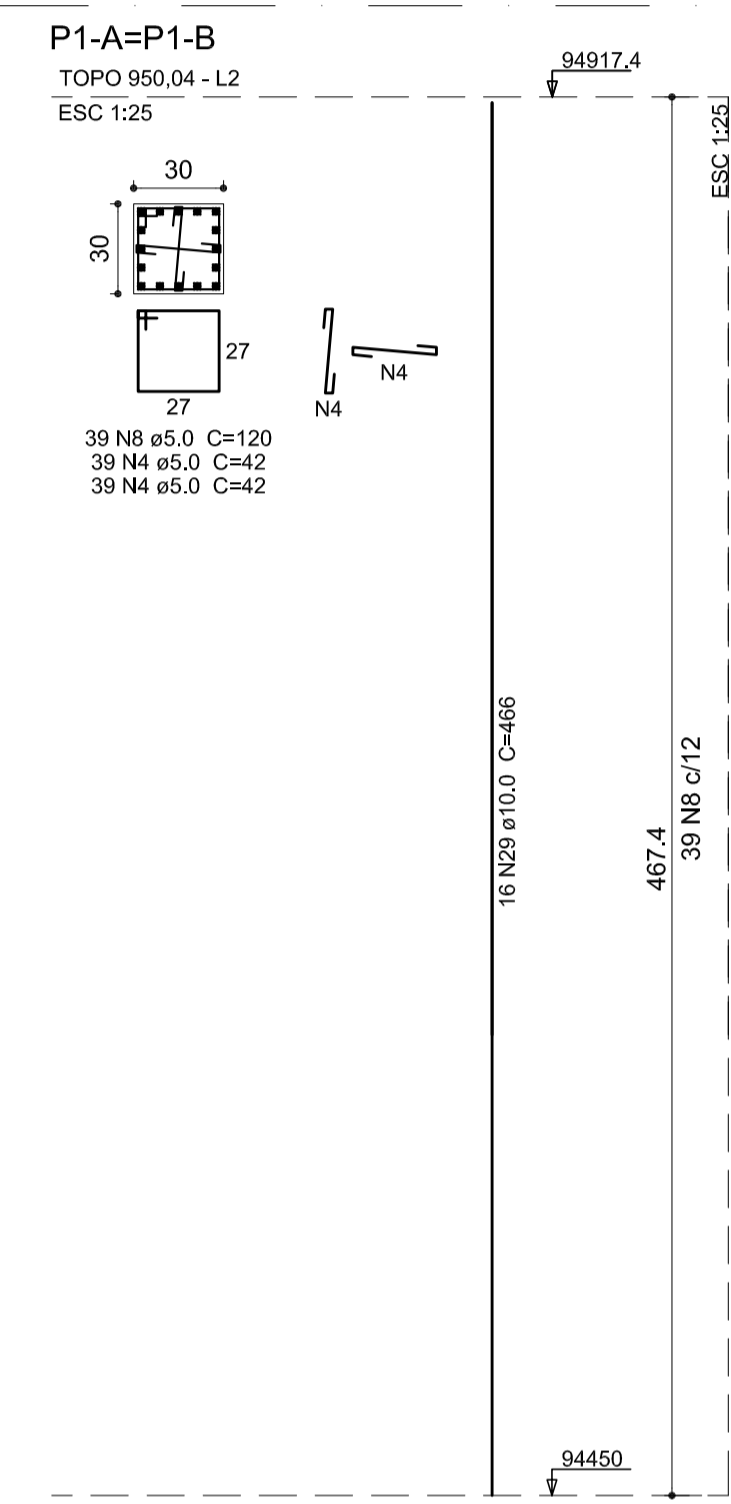
SEÇÃO A-A



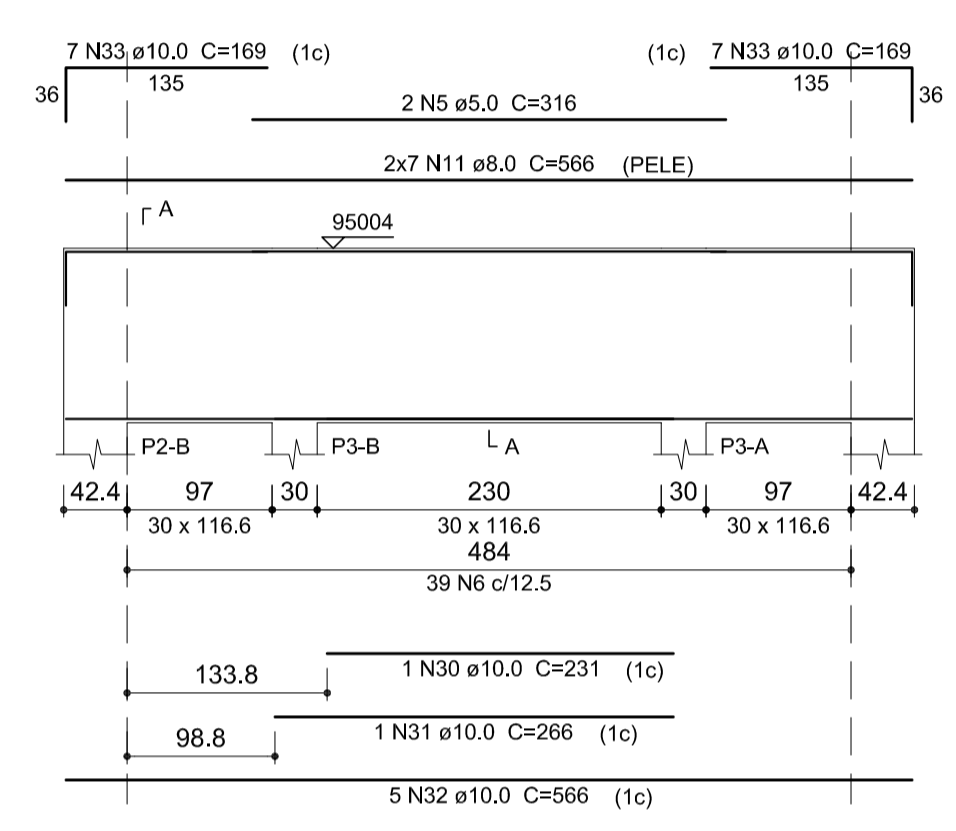
PAREDES - SEÇÃO



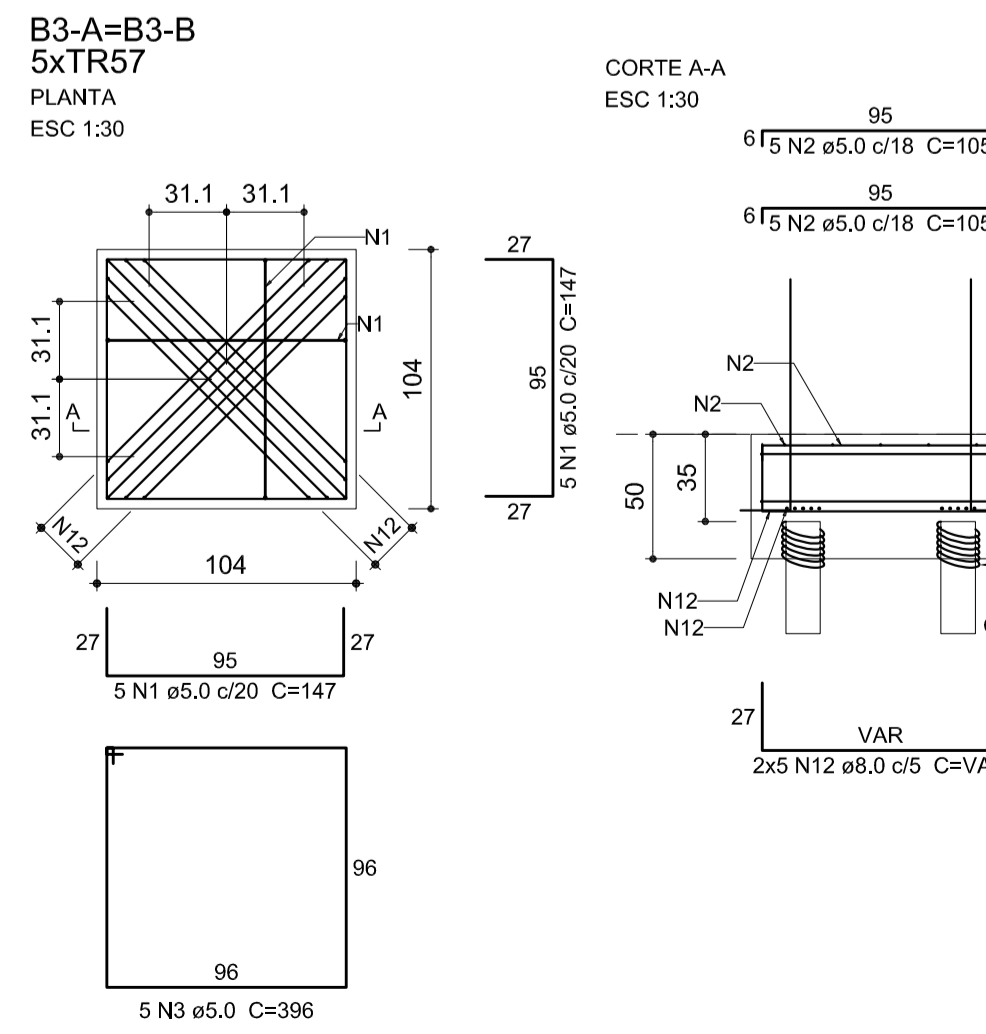
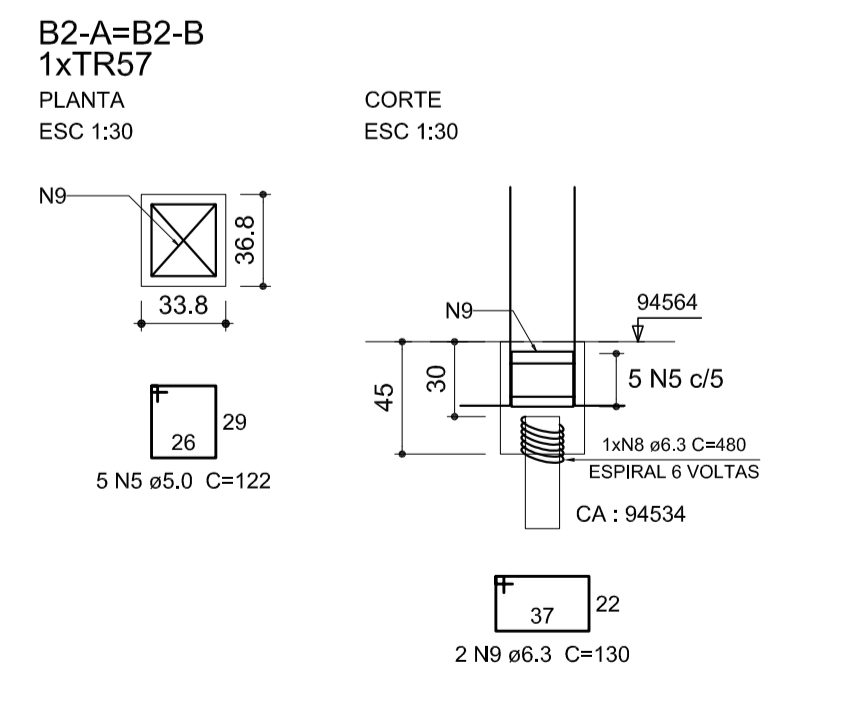
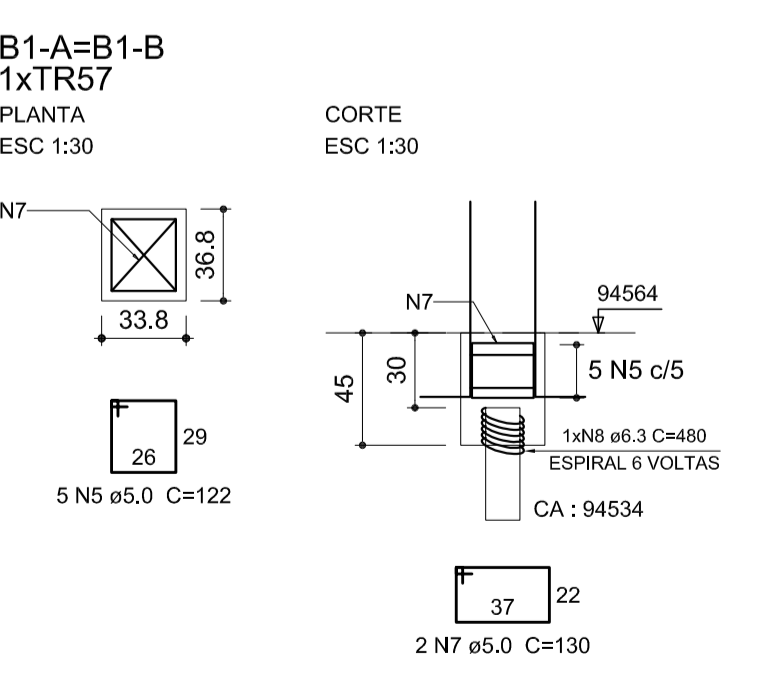
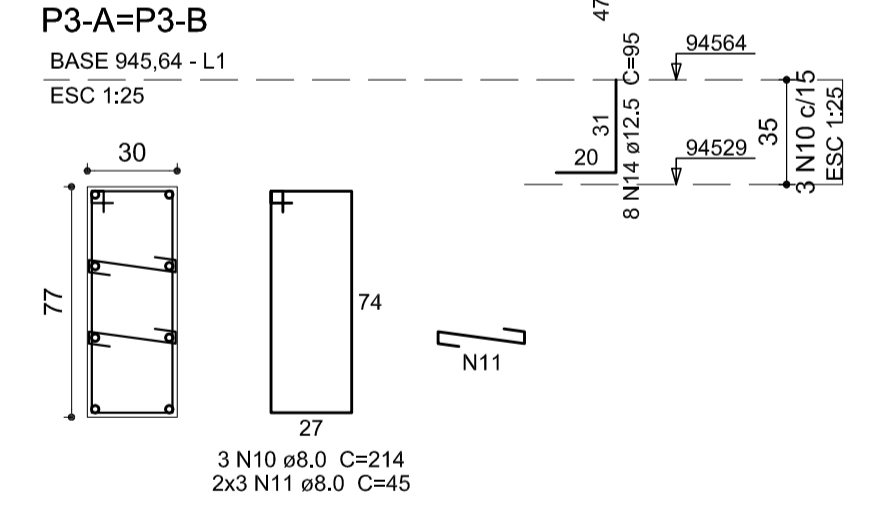
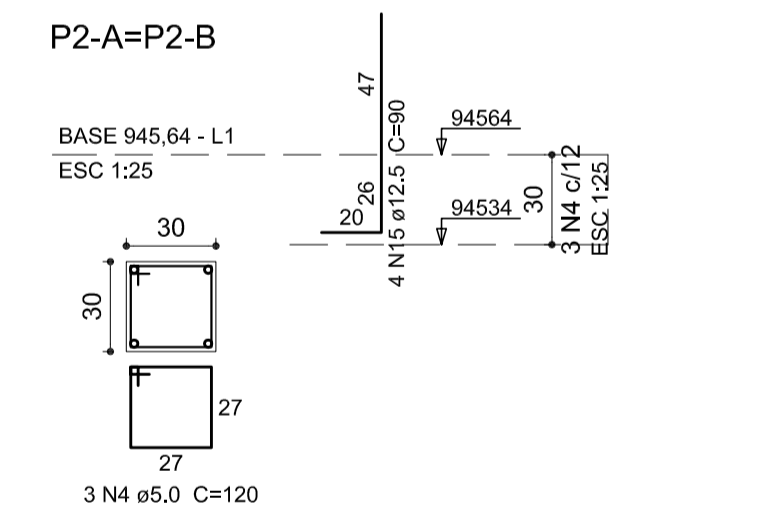
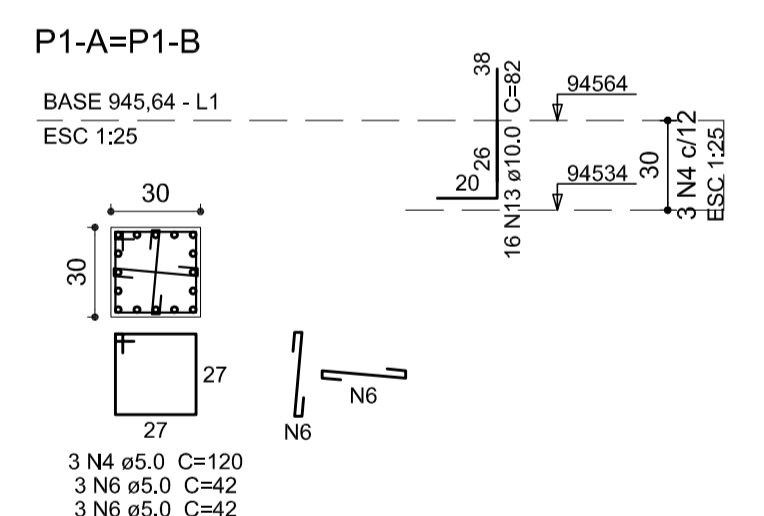
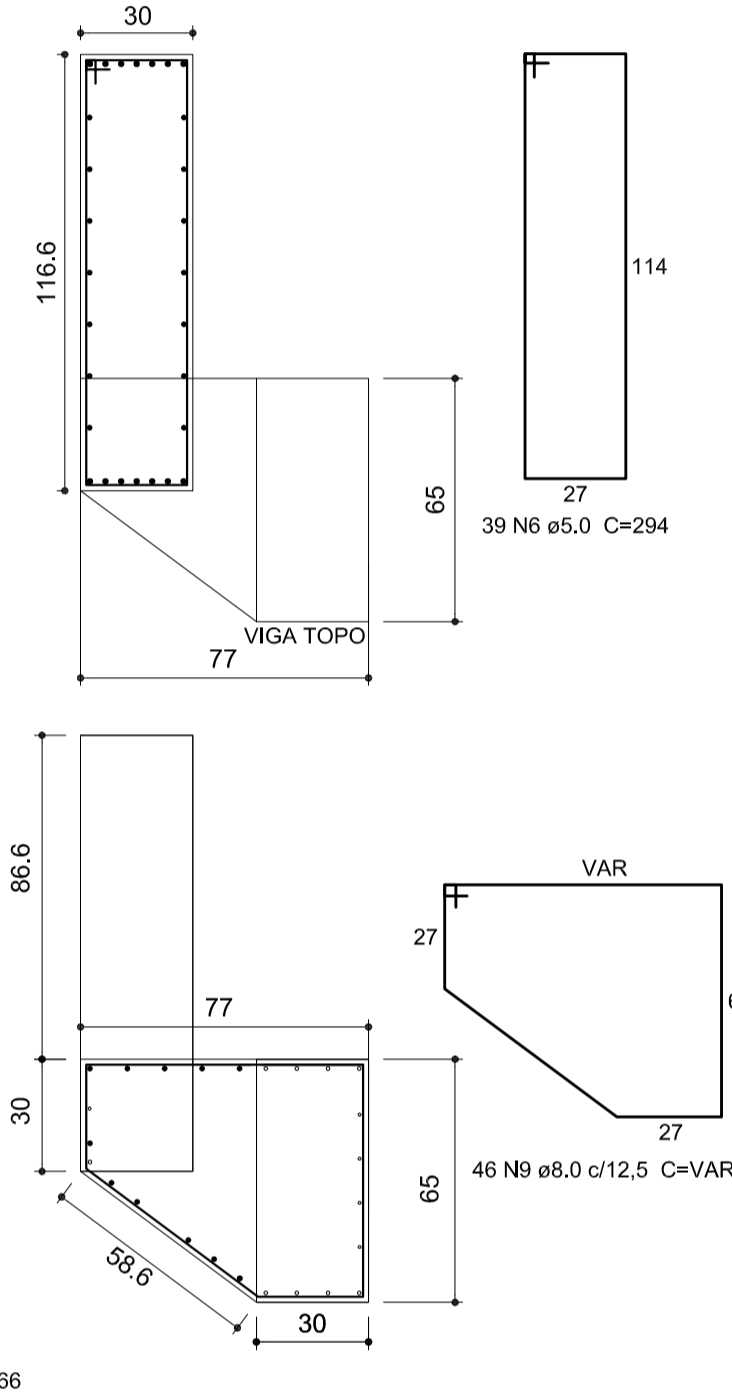
MATERIAIS PARA AS PAREDES (1 lado da ponte)
 Volume de concreto (C-25) = 10,80 m³
 Área de forma = 72,02 m²
 Tela eletrosoldada Q335 - 2,45x6,0m = 7 painéis (549,5 kg)



VIGA CABEÇA (30 x 116.6)



SEÇÃO A-A



Relação do aço - 1 lado da ponte

2xB1-A	2xB2-A	2xB3-A	C.TOTAL		
AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	20	147	2940
	2	5.0	20	105	2100
	3	5.0	10	396	3960
	4	5.0	12	120	1440
	5	5.0	20	122	2440
	6	5.0	12	42	504
	7	5.0	4	130	520
CA50	8	6.3	14	480	6720
	9	6.3	4	130	520
	10	8.0	6	214	1284
	11	8.0	12	45	540
	12	8.0	20	VAR	VAR
	13	10.0	32	82	2624
	14	12.5	16	95	1520
	15	12.5	8	90	720

Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	6.3	72.4	19.5
	8.0	47.3	20.5
	10.0	26.3	17.8
	12.5	22.4	23.7
CA60	5.0	139.1	23.6
PESO TOTAL (kg)			
CA50		81.5	
CA60		23.6	

Volume de concreto (C-25) = 1.53 m³
 Área de forma = 9.64 m²

Relação do aço - 1 lado da ponte

PAR	2xP1-A	2xP2-A	2xP3-A	C.TOTAL	
VIGA TOPO	VIGA BASE	VIGA CABEÇA	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	146	190	27740
	2	5.0	78	214	16692
	3	5.0	78	89	6942
	4	5.0	546	42	22932
	5	5.0	2	316	632
	6	5.0	39	294	11466
	7	5.0	2	252	504
	8	5.0	156	120	18720
	9	8.0	46	160	12052
	10	8.0	16	1060	16960
	11	8.0	26	566	14716
	12	8.0	2	131	262
	13	10.0	2	460	920
	14	10.0	2	641	1282
	15	10.0	1	120	120
	16	10.0	1	160	160
	17	10.0	8	440	3520
	18	10.0	24	465	11160
	19	10.0	3	246	738
	20	10.0	1	115	115
	21	10.0	3	155	465
	22	10.0	2	185	370
	23	10.0	2	200	400
	24	10.0	2	335	670
	25	10.0	2	228	456
	26	10.0	3	288	864
	27	10.0	4	1066	4264
	28	10.0	4	278	1112
	29	10.0	48	466	22368
	30	10.0	1	231	231
	31	10.0	1	266	266
	32	10.0	5	566	2830
	33	10.0	14	169	2366
	34	10.0	1	130	130
	35	10.0	1	165	165

Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	8.0	439.9	190.9
	10.0	549.7	372.8
CA60	5.0	1056.3	178.9
PESO TOTAL (kg)			
CA50		563.7	
CA60		178.9	

Volume de concreto (C-25) = 9.93 m³
 Área de forma = 125.90 m²

FORMATO A1 - 841x564 mm

3

2

1 31/08/22 Troca das estacas de fundação por estacas em trilhos metálicos TR57

Nº Data Versão/Revisão

FERREIRA COSTA
 Engenharia e Consultoria Ltda
 ferreiracostaengenharia@yahoo.com.br

Proprietário: **PREFEITURA MUNICIPAL DE FORMIGA**

Projeto: **PONTE SOBRE RIBEIRÃO MORRO CAVADO - PROJETO DE RECONSTRUÇÃO**

Ref.: **ESTRUTURAL BASES EM CONCRETO ARMADO**

Endereço: **MORRO CAVADO - FORMIGA / MG**

Autores:

Data: **ABR/2022**

Escala: **INDICADA**

Folha: **05**

MARLON BATISTA DA COSTA
 Eng. Civil/Sanitarista - CREA 50744/D