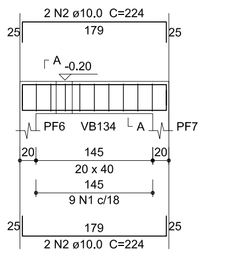
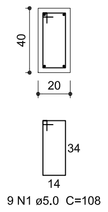
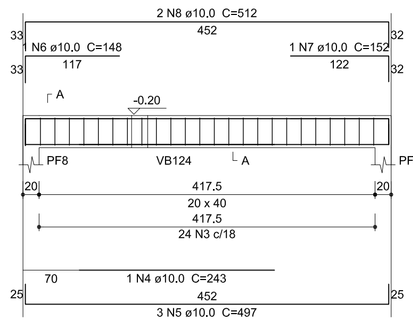
VB102 (20 x 40)
1:50



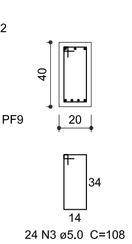
SEÇÃO A-A
ESC 1:25



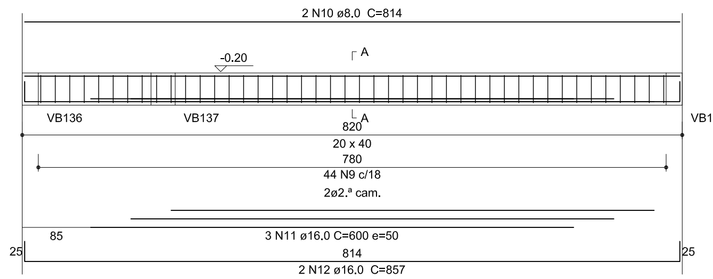
VB103 (20 x 40)
1:50



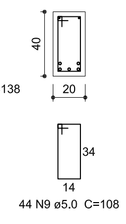
SEÇÃO A-A
ESC 1:25



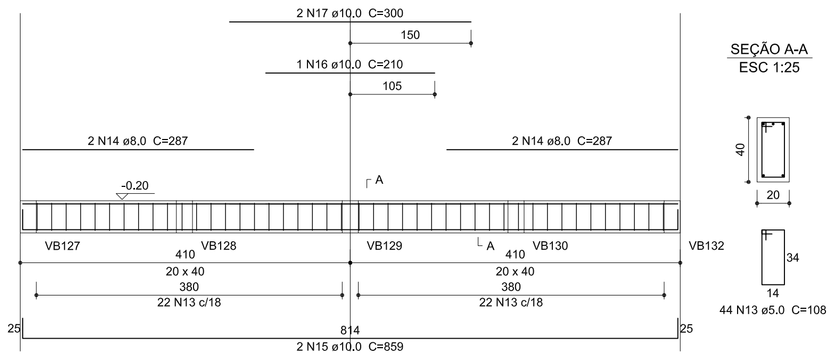
VB104 (20 x 40)
1:50



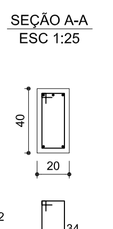
SEÇÃO A-A
ESC 1:25



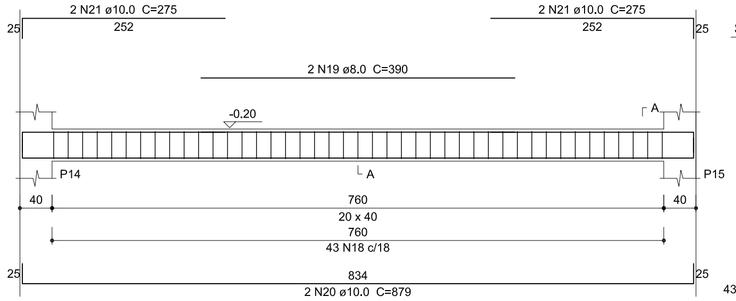
VB105 (20 x 40)
1:50



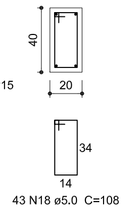
SEÇÃO A-A
ESC 1:25



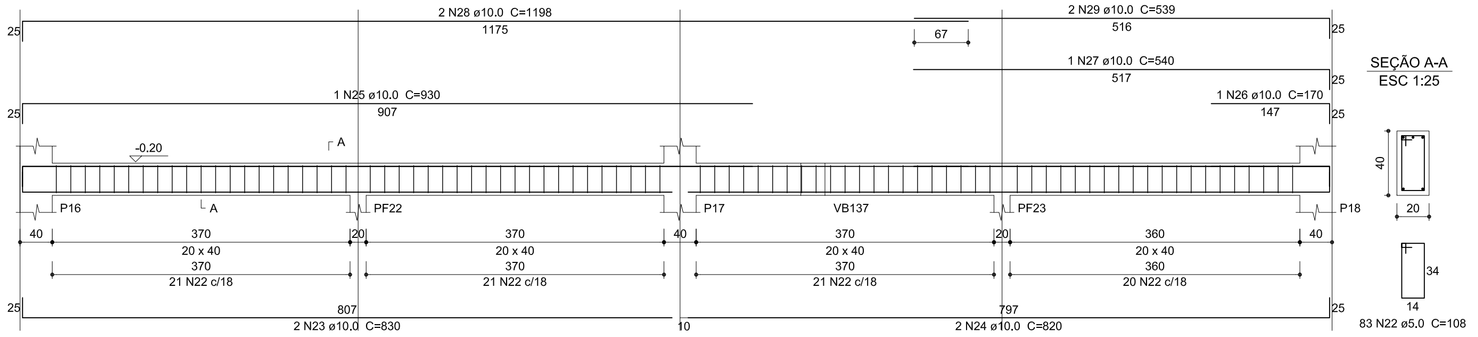
VB107 (20 x 40)
1:50



SEÇÃO A-A
ESC 1:25

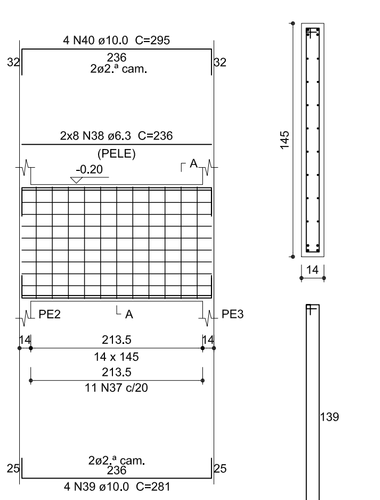


VB108 (20 x 40)
1:50

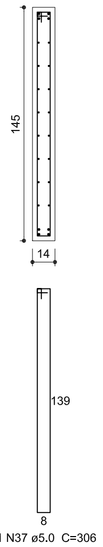


SEÇÃO A-A
ESC 1:25

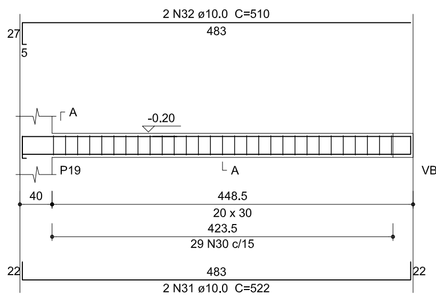
VB112 (14 x 145)
1:50



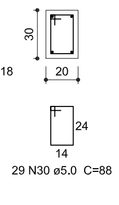
SEÇÃO A-A
ESC 1:25



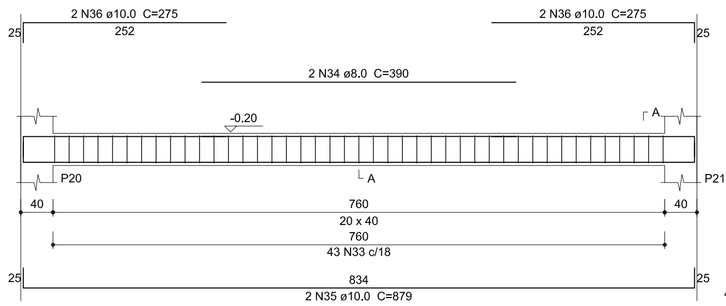
VB109 (20 x 30)
1:50



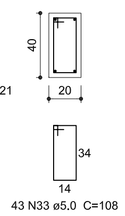
SEÇÃO A-A
ESC 1:25



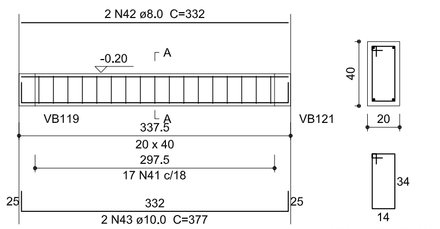
VB110 (20 x 40)
1:50



SEÇÃO A-A
ESC 1:25

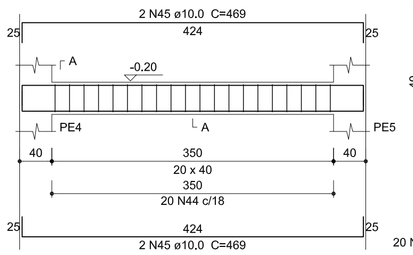


VB113 (20 x 40)
1:50

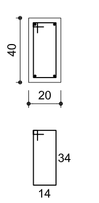


SEÇÃO A-A
ESC 1:25

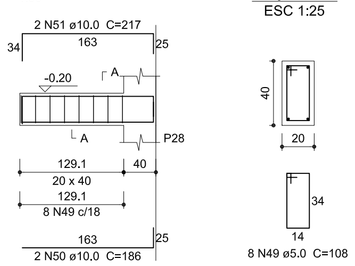
VB114 (20 x 40)
1:50



SEÇÃO A-A
ESC 1:25

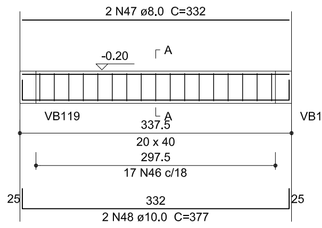


VB116 (20 x 40)
1:50

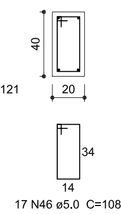


SEÇÃO A-A
ESC 1:25

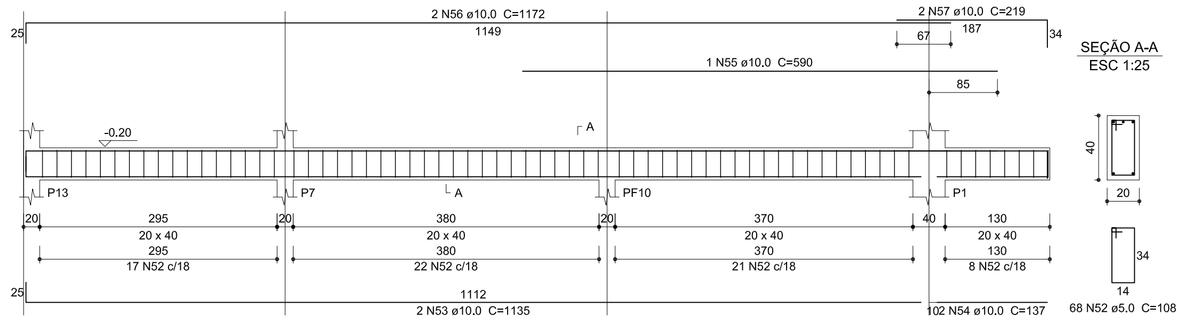
VB115 (20 x 40)
1:50



SEÇÃO A-A
ESC 1:25

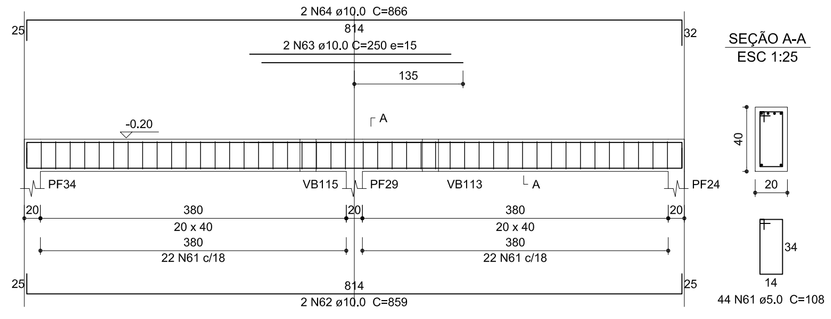


VB117 (20 x 40)
1:50



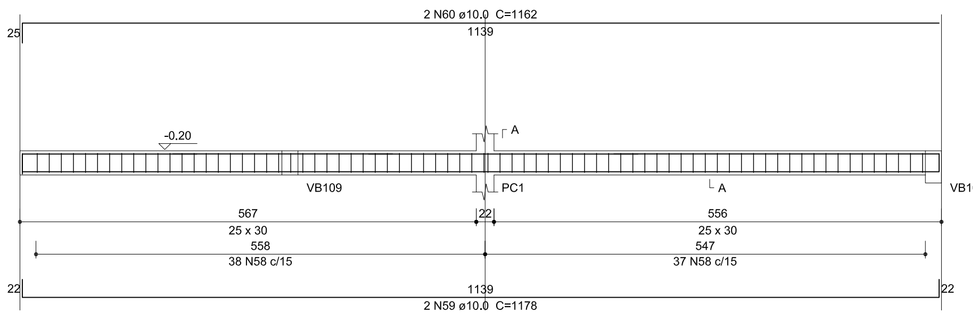
SEÇÃO A-A
ESC 1:25

VB119 (20 x 40)
1:50

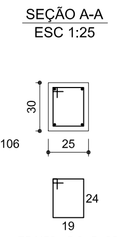


SEÇÃO A-A
ESC 1:25

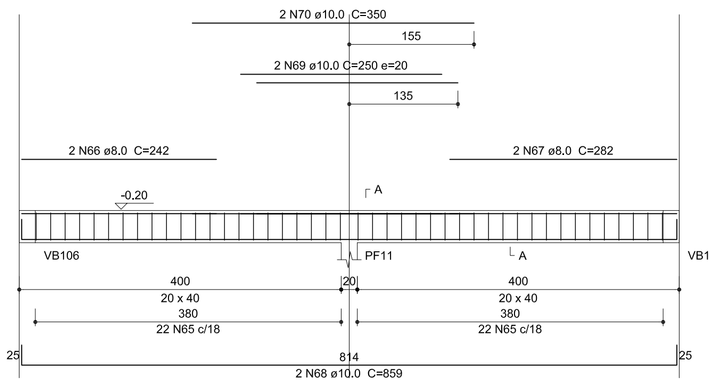
VB118 (25 x 30)
1:50



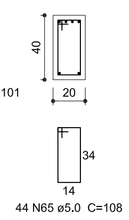
SEÇÃO A-A
ESC 1:25



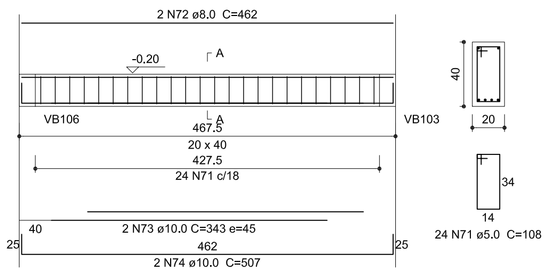
VB120 (20 x 40)
1:50



SEÇÃO A-A
ESC 1:25



VB124 (20 x 40)
1:50



SEÇÃO A-A
ESC 1:25

Relação do aço

ELEMENTO	AÇO	N	DIAM	Q	UNIT (cm)	C.TOTAL (cm)
VB102	CA60	1	5,0	9	108	972
	CA50	2	10,0	4	224	896
VB103	CA60	3	5,0	24	108	2592
	CA50	4	10,0	1	243	243
	CA50	5	10,0	3	497	1491
	CA50	6	10,0	1	148	148
	CA50	7	10,0	1	152	152
	CA50	8	10,0	2	512	1024
VB104	CA60	9	5,0	44	108	4752
	CA50	10	8,0	2	814	1628
	CA50	11	16,0	3	600	1800
	CA50	12	16,0	2	857	1714
VB105	CA60	13	5,0	44	108	4752
	CA50	14	8,0	4	287	1148
	CA50	15	10,0	2	859	1718
	CA50	16	10,0	1	210	210
	CA50	17	10,0	2	300	600
VB107	CA60	18	5,0	43	108	4644
	CA50	19	8,0	2	390	780
	CA50	20	10,0	2	879	1758
	CA50	21	10,0	4	275	1100
VB108	CA60	22	5,0	83	108	8964
	CA50	23	10,0	2	830	1660
	CA50	24	10,0	2	820	1640
	CA50	25	10,0	1	930	930
	CA50	26	10,0	1	170	170
	CA50	27	10,0	1	540	540
	CA50	28	10,0	2	1198	2396
	CA50	29	10,0	2	539	1078
VB109	CA60	30	5,0	29	88	2552
	CA50	31	10,0	2	522	1044
	CA50	32	10,0	2	510	1020
VB110	CA60	33	5,0	43	108	4644
	CA50	34	8,0	2	390	780
	CA50	35	10,0	2	879	1758
	CA50	36	10,0	4	275	1100
VB112	CA60	37	5,0	11	306	3366
	CA50	38	6,3	16	236	3776
	CA50	39	10,0	4	281	1124
	CA50	40	10,0	4	295	1180
VB113	CA60	41	5,0	17	108	1836
	CA50	42	8,0	2	332	664
	CA50	43	10,0	2	377	754
VB114	CA60	44	5,0	20	108	2160
	CA50	45	10,0	4	469	1876
VB115	CA60	46	5,0	17	108	1836
	CA50	47	8,0	2	332	664
	CA50	48	10,0	2	377	754
VB116	CA60	49	5,0	8	108	864
	CA50	50	10,0	2	186	372
	CA50	51	10,0	2	217	434
VB117	CA60	52	5,0	68	108	7344
	CA50	53	10,0	2	1135	2270
	CA50	54	10,0	2	137	274
	CA50	55	10,0	1	590	590
	CA50	56	10,0	2	1172	2344
	CA50	57	10,0	2	219	438
VB118	CA50	58	5,0	75	98	7350
	CA50	59	10,0	2	1178	2356
	CA50	60	10,0	2	1162	2324
VB119	CA60	61	5,0	44	108	4752
	CA50	62	10,0	2	859	1718
	CA50	63	10,0	2	250	500
	CA50	64	10,0	2	866	1732
VB120	CA60	65	5,0	44	108	4752
	CA50	66	8,0	2	242	484
	CA50	67	8,0	2	282	564
	CA50	68	10,0	2	859	1718
	CA50	69	10,0	2	250	500
	CA50	70	10,0	2	350	700
VB124	CA60	71	5,0	24	108	2592
	CA50	72	8,0	2	462	924
	CA50	73	10,0	2	343	686
	CA50	74	10,0	2	507	1014

Resumo do aço

AÇO	DIAM	C.TOTAL (cm)	PESO (kg)
CA50	6,3	49	12
	8,0	99	40
	10,0	628	396
	16,0	46	74
CA60	5,0	920	147
PESO TOTAL			
CA50	522		
CA60	147		

REVISÕES	DESCRIÇÃO	DATA	RUBRICA
0	EMISSÃO INICIAL	00/00/2009	NOME

UIE — UNIDADE DE IMPLANTAÇÃO DEPARTAMENTO DE OBRAS
CENTRO PAULA SOUZA — GOVERNO DE SÃO PAULO

OBRA: CAMPUS CEETEPS EM CRAVINHOS
UNIDADE: ETEC CRAVINHOS
LOCAL / MUNICÍPIO: RUA MARIA CONCEIÇÃO GOUVÊA SIMÕES, S/Nº - CRAVINHOS/SP
ÁREA TÉCNICA: ESTRUTURAL
ESCALA: INDICADAS
FOLHA Nº: EST-006/024
TÍTULO:
PROJETO BÁSICO
BLOCO ADMINISTRATIVO E PEDAGÓGICO
ARMAÇÃO DAS VIGAS BALDRAMES - 1 / 3
CONSTRUÇÃO

DESENHO	PROJETO	COORDENAÇÃO
UIE	UIE	UIE

OBSERVAÇÃO	DATA	REVISÃO
CONFERIR MEDIDAS NO LOCAL	OUT/2017	R0