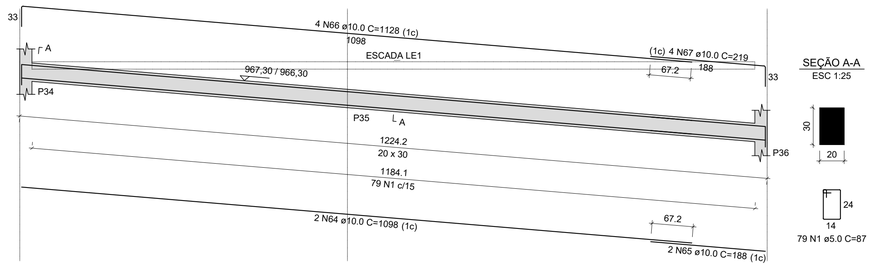
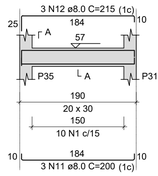
V16
ESC 1:50



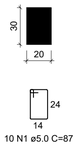
SEÇÃO A-A
ESC 1:25

79 N1 ø5.0 C=87

V17
ESC 1:50

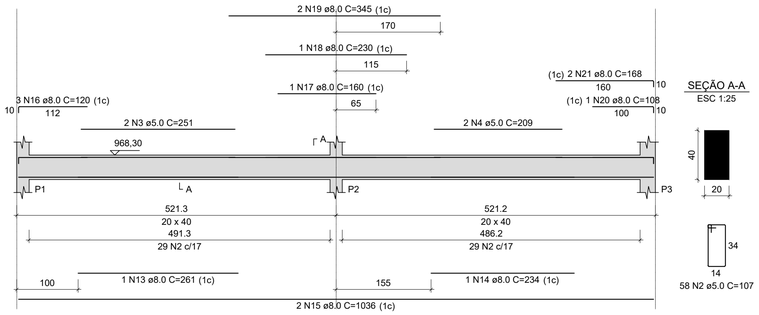


SEÇÃO A-A
ESC 1:25



10 N1 ø5.0 C=87

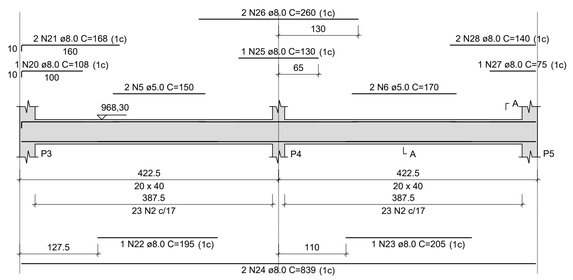
VIGA BALDRAME1
ESC 1:50



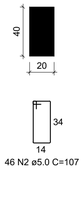
SEÇÃO A-A
ESC 1:25

58 N2 ø5.0 C=107

VIGA BALDRAME2
ESC 1:50

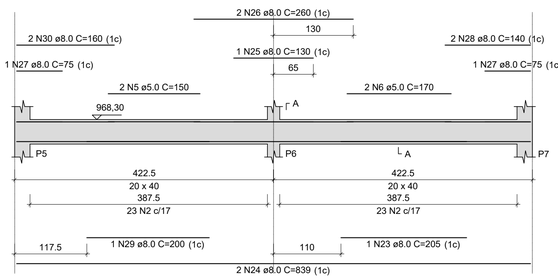


SEÇÃO A-A
ESC 1:25

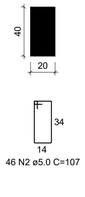


46 N2 ø5.0 C=107

VIGA BALDRAME3
ESC 1:50

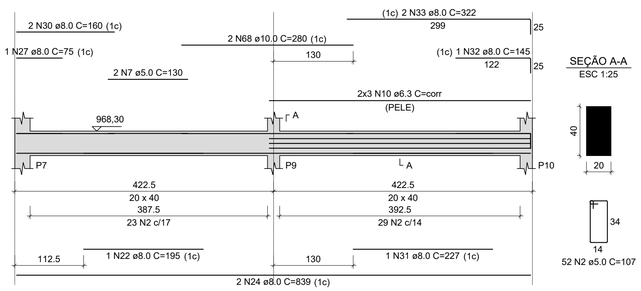


SEÇÃO A-A
ESC 1:25



46 N2 ø5.0 C=107

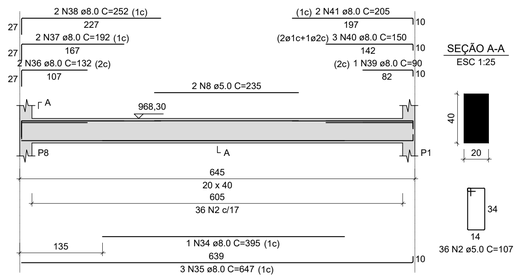
VIGA BALDRAME4
ESC 1:50



SEÇÃO A-A
ESC 1:25

52 N2 ø5.0 C=107

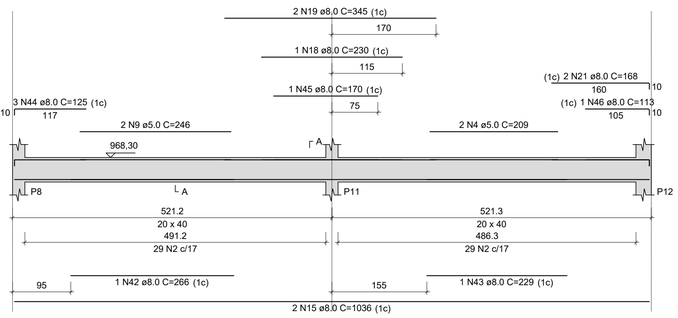
VIGA BALDRAME5
ESC 1:50



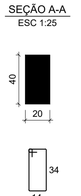
SEÇÃO A-A
ESC 1:25

36 N2 ø5.0 C=107

VIGA BALDRAME6
ESC 1:50

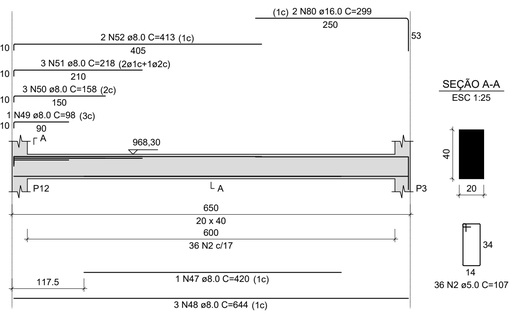


SEÇÃO A-A
ESC 1:25



58 N2 ø5.0 C=107

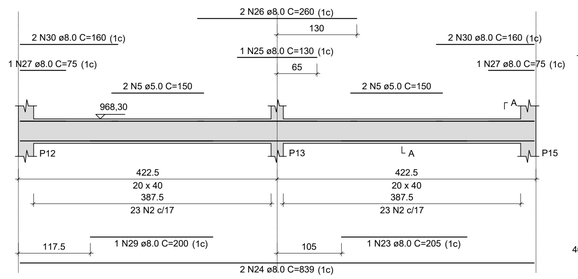
VIGA BALDRAME7
ESC 1:50



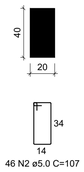
SEÇÃO A-A
ESC 1:25

36 N2 ø5.0 C=107

VIGA BALDRAME8
ESC 1:50

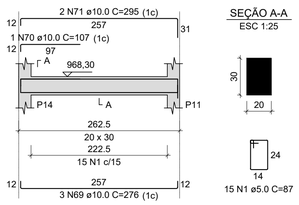


SEÇÃO A-A
ESC 1:25

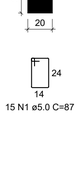


46 N2 ø5.0 C=107

VIGA BALDRAME9
ESC 1:50

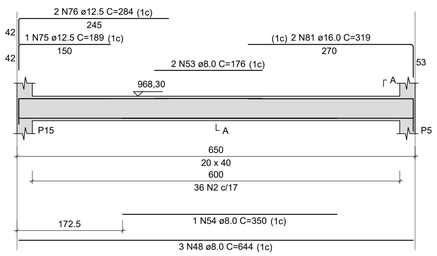


SEÇÃO A-A
ESC 1:25

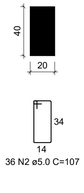


15 N1 ø5.0 C=87

VIGA BALDRAME10
ESC 1:50

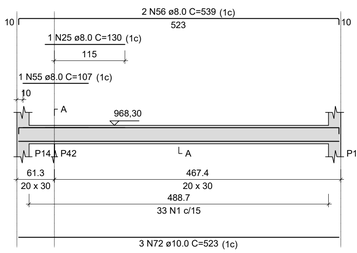


SEÇÃO A-A
ESC 1:25

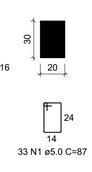


36 N2 ø5.0 C=107

VIGA BALDRAME11
ESC 1:50

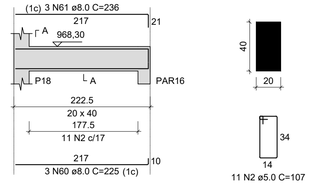


SEÇÃO A-A
ESC 1:25



33 N1 ø5.0 C=87

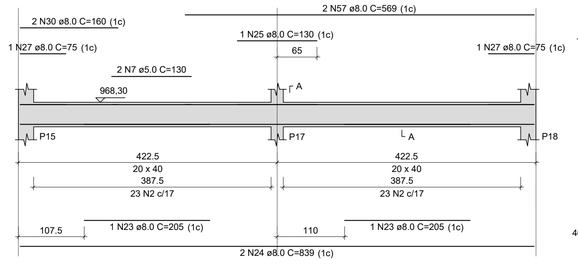
VIGA BALDRAME14
ESC 1:50



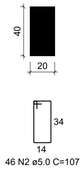
SEÇÃO A-A
ESC 1:25

11 N2 ø5.0 C=107

VIGA BALDRAME12
ESC 1:50

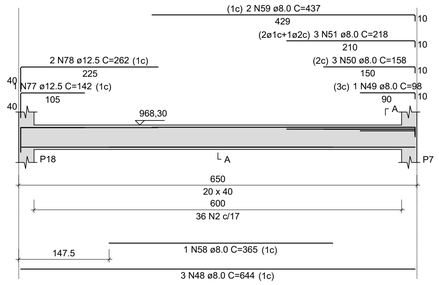


SEÇÃO A-A
ESC 1:25

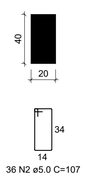


46 N2 ø5.0 C=107

VIGA BALDRAME13
ESC 1:50

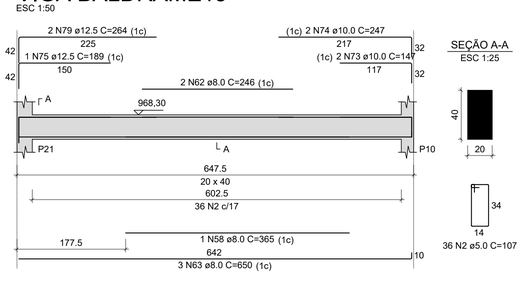


SEÇÃO A-A
ESC 1:25



36 N2 ø5.0 C=107

VIGA BALDRAME15
ESC 1:50



SEÇÃO A-A
ESC 1:25

36 N2 ø5.0 C=107

RELAÇÃO DO AÇO

V16 V17 VIGA BALDRAME1
VIGA BALDRAME2 VIGA BALDRAME3 VIGA BALDRAME4
VIGA BALDRAME5 VIGA BALDRAME6 VIGA BALDRAME7
VIGA BALDRAME8 VIGA BALDRAME9 VIGA BALDRAME10
VIGA BALDRAME11 VIGA BALDRAME12 VIGA BALDRAME13
VIGA BALDRAME14 VIGA BALDRAME15

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	137	87	11919
	2	5.0	543	107	58101
	3	5.0	2	251	502
	4	5.0	4	209	836
	5	5.0	8	150	1200
	6	5.0	4	170	680
	7	5.0	4	130	520
	8	5.0	2	235	470
	9	5.0	2	246	492
CA50	10	6.3	6	corr	2556
	11	8.0	3	200	600
	12	8.0	3	215	645
	13	8.0	1	261	261
	14	8.0	1	234	234
	15	8.0	4	1036	4144
	16	8.0	3	120	360
	17	8.0	1	160	160
	18	8.0	2	230	460
	19	8.0	4	345	1380
	20	8.0	2	108	216
	21	8.0	6	168	1008
	22	8.0	2	195	390
	23	8.0	5	205	1025
	24	8.0	10	839	8390
	25	8.0	5	130	650
	26	8.0	6	260	1560
	27	8.0	8	75	600
	28	8.0	4	140	560
	29	8.0	2	200	400
	30	8.0	10	160	1600
	31	8.0	1	227	227
	32	8.0	1	145	145
	33	8.0	2	322	644
	34	8.0	1	395	395
	35	8.0	3	647	1941
	36	8.0	2	132	264
	37	8.0	2	192	384
	38	8.0	2	252	504
	39	8.0	1	90	90
	40	8.0	3	150	450
	41	8.0	2	205	410
	42	8.0	1	266	266
	43	8.0	1	229	229
	44	8.0	3	125	375
	45	8.0	1	170	170
	46	8.0	1	113	113
	47	8.0	1	420	420
	48	8.0	9	644	5796
	49	8.0	2	98	196
	50	8.0	6	158	948
	51	8.0	6	218	1308
	52	8.0	2	413	826
	53	8.0	2	176	352
	54	8.0	1	350	350
	55	8.0	1	107	107
	56	8.0	2	539	1078
	57	8.0	2	569	1138
	58	8.0	2	365	730
	59	8.0	2	437	874
	60	8.0	3	225	675
	61	8.0	3	236	708
	62	8.0	2	246	492
	63	8.0	3	650	1950
	64	10.0	2	1098	2196
	65	10.0	2	188	376
	66	10.0	4	1128	4512
	67	10.0	4	219	876
	68	10.0	2	280	560
	69	10.0	3	276	828
	70	10.0	1	107	107
	71	10.0	2	295	590
	72	10.0	3	523	1569
	73	10.0	2	147	294
	74	10.0	2	247	494
	75	12.5	2	189	378
	76	12.5	2	284	568
	77	12.5	1	142	142
	78	12.5	2	262	524
	79	12.5	2	264	528
	80	16.0	2	299	598
	81	16.0	2	319	638

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	6.3	25.6	6.9
	8.0	492	213.5
	10.0	124	84.1
	12.5	21.4	22.7
	16.0	12.4	21.5
CA60	5.0	747.2	126.7
PESO TOTAL (kg)			
CA50	348.7		
CA60	126.7		

Volume de concreto fck 3,0kN/cm²(C-30) = 8.45 m³
Área de forma = 105.24 m²

05	21/11/22	REVISÃO CONFORME NOTA TÉCNICA	ATACIZIO
REVISÃO	DATA	DESCRIÇÃO	RESP.

EMPRESA
MARKA ARQUITETURA E ENGENHARIA LTDA
RUA PROFESSOR ABEYLARD, 279, SALA 9
CENTRO, SETE LAGOAS/MG
apoio@markaprojetos.com.br
(31) 3177-4235
www.markaprojetos.com.br

ESPECIALIDADE: ESTRUTURAL
FASE DO PROJETO: EXECUTIVO

EMPREENDIMENTO – OBRA
ESCOLA MUNICIPAL BELVEDERDE
RUA JOSÉ COELHO, RUA CANADÁ E RUA SÉRGIO JACOWLEVSKI
B. SIDERÚRGICO – CONSELHEIRO LAFAIETE/MG

RESPONSÁVEL PROJETO: JOSÉ ATACIZIO DA FÉ ENG.CIVIL CREA/MG 87.669/D
COORDENADOR PROJETO: KARINE NARDY
PROJETISTA: JOSÉ ATACIZIO DA FÉ

ASSUNTO
PROJETO DE ESTRUTURAS DE CONCRETO
ARMAÇÃO DAS VIGAS BALDRAME–BLOCO 03

ESCALA: INDICADA
DATA: 02/11/2022
Nº FOLHA: 07
ARQUIVO: 064-EST-BLOCO 03-BELVEDERE-R06

FORMATO A1 - PADRÃO ABNT - (841 x 594mm)