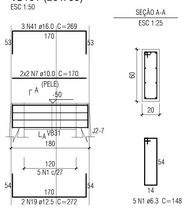
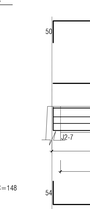
ARMAÇÃO DAS VIGAS BALDRAME 6/7

ESC.: INDICADA

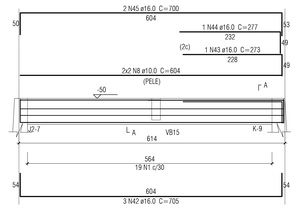
VB101 (20 x 60)
ESC 1:50



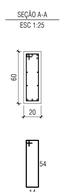
SEÇÃO A-A
ESC 1:25



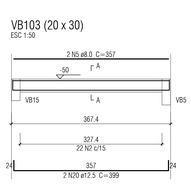
VB102 (20 x 60)
ESC 1:50



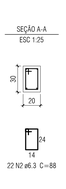
SEÇÃO A-A
ESC 1:25



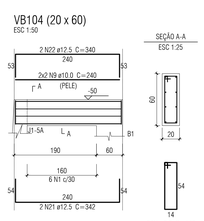
VB103 (20 x 30)
ESC 1:50



SEÇÃO A-A
ESC 1:25

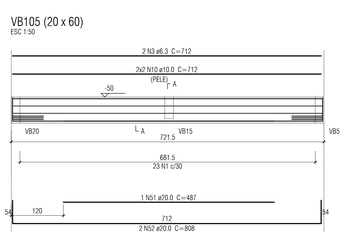


VB104 (20 x 60)
ESC 1:50

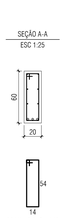


SEÇÃO A-A
ESC 1:25

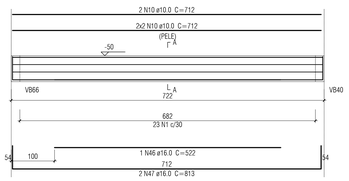
VB105 (20 x 60)
ESC 1:50



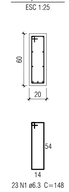
SEÇÃO A-A
ESC 1:25



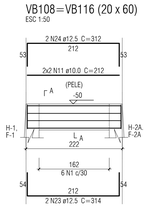
VB106=VB107 (20 x 60)
ESC 1:50



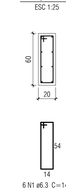
SEÇÃO A-A
ESC 1:25



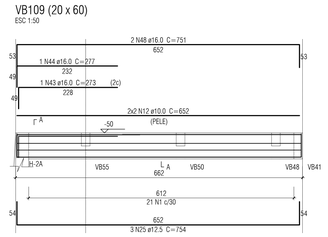
VB108=VB116 (20 x 60)
ESC 1:50



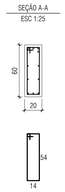
SEÇÃO A-A
ESC 1:25



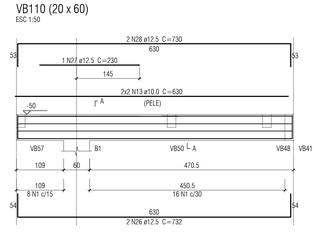
VB109 (20 x 60)
ESC 1:50



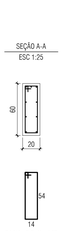
SEÇÃO A-A
ESC 1:25



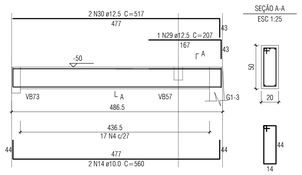
VB110 (20 x 60)
ESC 1:50



SEÇÃO A-A
ESC 1:25

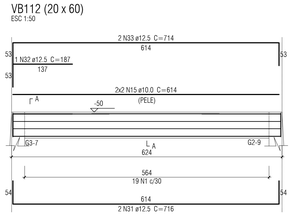


VB111 (20 x 50)
ESC 1:50

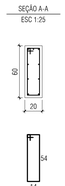


SEÇÃO A-A
ESC 1:25

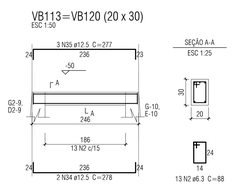
VB112 (20 x 60)
ESC 1:50



SEÇÃO A-A
ESC 1:25

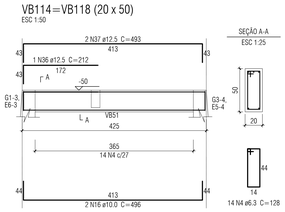


VB113=VB120 (20 x 30)
ESC 1:50



SEÇÃO A-A
ESC 1:25

VB114=VB118 (20 x 50)
ESC 1:50

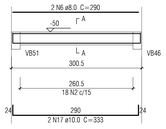


SEÇÃO A-A
ESC 1:25

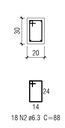
NOTAS

1- MEDIDAS EM cm, NÍVEIS EM m
2- COBRIMENTO: 3,0cm. (usar espaçadores)
3- AÇO CA-50 fyk=500 MPa, CA-60 fyk=600 MPa
4- fck = 25 MPa
5- CONFERIR MEDIDAS NA OBRA
6- NÃO TOMAR MEDIDAS EM ESCALA

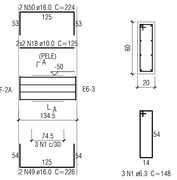
VB115 (20 x 30)
ESC 1:50



SEÇÃO A-A
ESC 1:25

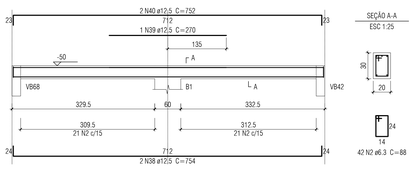


VB117 (20 x 60)
ESC 1:50



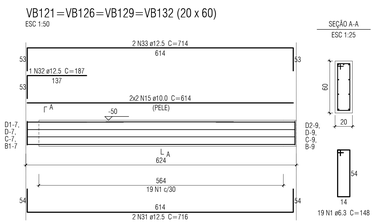
SEÇÃO A-A
ESC 1:25

VB119 (20 x 30)
ESC 1:50



SEÇÃO A-A
ESC 1:25

VB121=VB126=VB129=VB132 (20 x 60)
ESC 1:50



SEÇÃO A-A
ESC 1:25

Relação do aço

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA50	1	6.3	254	148	37592
	2	6.3	108	88	9504
	3	6.3	2	712	1424
	4	6.3	45	128	5760
	5	8.0	2	357	714
	6	8.0	2	290	580
	7	10.0	4	170	680
	8	10.0	4	604	2416
	9	10.0	4	240	960
	10	10.0	16	712	11392
	11	10.0	8	212	1696
	12	10.0	4	652	2608
	13	10.0	4	630	2520
	14	10.0	2	560	1120
	15	10.0	20	614	12280
	16	10.0	4	496	1984
	17	10.0	2	333	666
	18	10.0	4	125	500
	19	12.5	2	272	544
	20	12.5	2	399	798
	21	12.5	2	342	684
	22	12.5	2	340	680
	23	12.5	4	314	1256
	24	12.5	4	312	1248
	25	12.5	3	754	2262
	26	12.5	2	732	1464
	27	12.5	1	230	230
	28	12.5	2	730	1460
	29	12.5	1	207	207
	30	12.5	2	517	1034
	31	12.5	10	716	7160
	32	12.5	5	187	935
	33	12.5	10	714	7140
	34	12.5	4	278	1112
	35	12.5	6	277	1662
	36	12.5	2	212	424
	37	12.5	4	493	1972
	38	12.5	2	754	1508
	39	12.5	1	270	270
	40	12.5	2	752	1504
	41	16.0	3	269	807
	42	16.0	3	705	2115
	43	16.0	2	273	546
	44	16.0	2	277	554
	45	16.0	2	700	1400
	46	16.0	2	522	1044
	47	16.0	4	813	3252
	48	16.0	2	751	1502
	49	16.0	2	226	452
	50	16.0	2	224	448
	51	20.0	1	487	487
	52	20.0	2	808	1616

Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	6.3	542.8	146.1
	8.0	13	5.6
	10.0	388.3	263.3
	12.5	355.6	376.8
	16.0	121.2	210.4
	20.0	21.1	57
PESO TOTAL (kg)			
CA50			1059.2

ESQUEMA PARA DOBRAMENTOS E DESCONTOS DAS BARRAS

DOBRAMENTO	A cm	B cm	C cm	DESCONTO cm
Ø6.3	3.50	7.00	4.95	1.90
Ø8.0	5.00	9.40	6.65	2.75
Ø10.0	6.00	11.80	8.35	3.45
Ø12.5	7.50	14.80	10.45	4.35
Ø16.0	9.60	18.90	13.35	5.55
Ø20.0	12.00	23.60	16.70	6.90
Ø25.0	15.00	29.50	20.85	8.65

PREFEITURA DO MUNICÍPIO DE ITAPEVI
SECRETARIA DE INFRAESTRUTURA
E SERVIÇOS URBANOS

TÍTULO: UNIDADE ESCOLAR

PROJETO: CONSTRUÇÃO DE ESCOLA

OBRA: ESCOLA DE TEMPO INTEGRAL VALE DO SOL

LOCAL DO IMÓVEL: RODOVIA ENGENHEIRO RENÊ BENEDITO DA SILVA, S/N, VALE DO SOL

PROPRIETÁRIO: PREFEITURA MUNICIPAL DE ITAPEVI

Marcos de Oliveira Anjos
Secretário de Infraestrutura
e Serviços Urbanos
Prefeitura Municipal de Itapevi
CNPJ nº: 46.523.031-0001-28

Responsável técnico
Engº. Fábio das Virgens Junior
CREA nº 5070331130

ASSUNTO: ARMAÇÃO DAS VIGAS BALDRAME 5/7			12/17
PAVIMENTO:	ESCALA: INDICADA	TIPO DE PROJETO: ESTRUTURA	
ZONEAMENTO:	DATA: MAR/2023	ETAPA: BÁSICO	
DESENHISTA:	IMPRESSO EM: 03/03/2023	REVISÃO: 00	