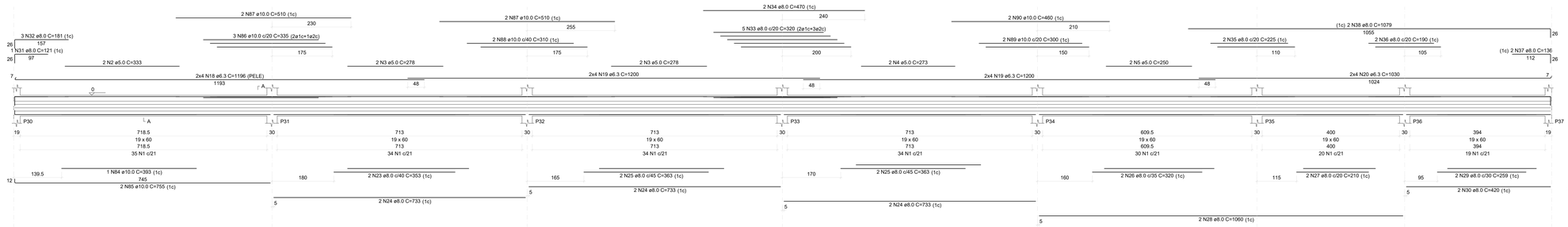
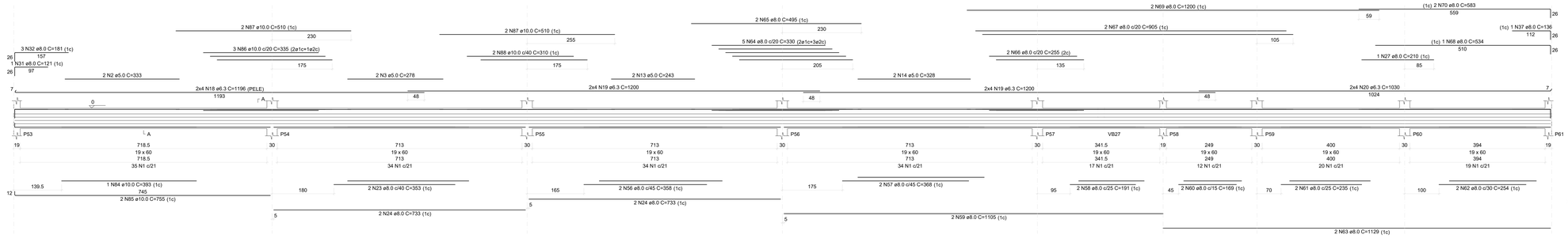
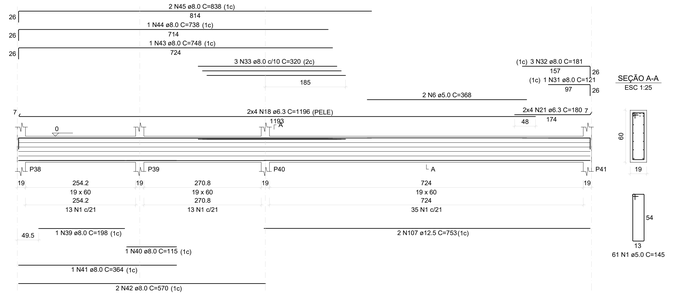
VB8
ESC 1:50



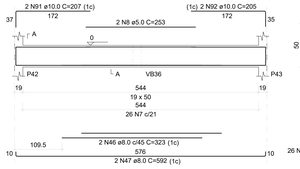
VB15
ESC 1:50



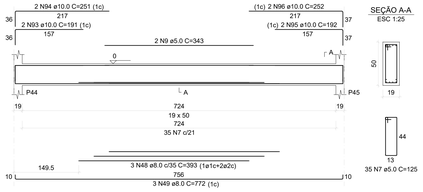
VB9
ESC 1:50



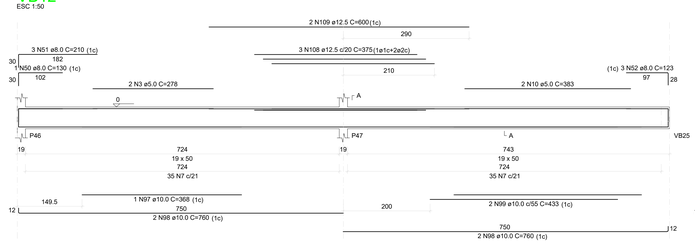
VB10
ESC 1:50



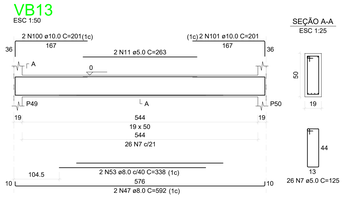
VB11
ESC 1:50



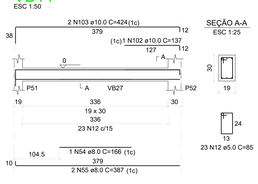
VB12
ESC 1:50



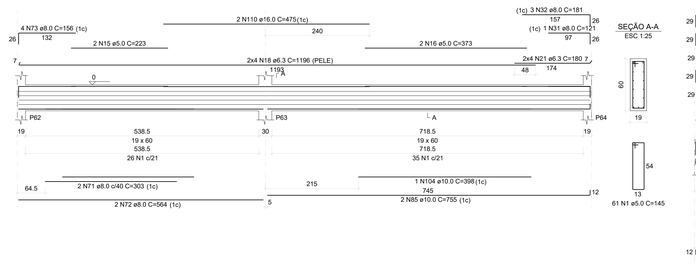
VB13
ESC 1:50



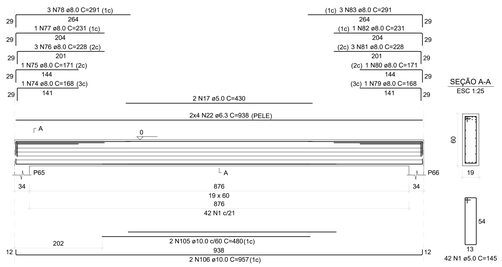
VB14
ESC 1:50



VB16
ESC 1:50



VB17
ESC 1:50



RELAÇÃO DO AÇO

VB8 VB9 VB10
VB11 VB12 VB13
VB14 VB15 VB16
VB17

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	575	145	83375
	2	5.0	4	333	1332
	3	5.0	8	278	2224
	4	5.0	2	273	546
	5	5.0	2	250	500
	6	5.0	2	368	736
	7	5.0	157	125	19625
	8	5.0	2	253	506
	9	5.0	2	343	686
	10	5.0	2	383	766
	11	5.0	2	263	526
	12	5.0	23	85	1955
	13	5.0	2	243	486
	14	5.0	2	328	656
	15	5.0	2	223	446
	16	5.0	2	373	746
	17	5.0	2	430	860
CA50	18	6.3	32	1196	38272
	19	6.3	32	1200	38400
	20	6.3	16	1030	16480
	21	6.3	16	180	2880
	22	6.3	8	938	7504
	23	8.0	4	353	1412
	24	8.0	10	733	7330
	25	8.0	4	363	1452
	26	8.0	2	320	640
	27	8.0	3	210	630
	28	8.0	2	1060	2120
	29	8.0	2	259	518
	30	8.0	2	420	840
	31	8.0	4	121	484
	32	8.0	16	181	2172
	33	8.0	8	320	2560
	34	8.0	2	470	940
	35	8.0	2	225	450
	36	8.0	2	190	380
	37	8.0	3	136	408
	38	8.0	2	1079	2158
	39	8.0	1	198	198
	40	8.0	1	115	115
	41	8.0	1	364	364
	42	8.0	2	570	1140
	43	8.0	1	748	748
	44	8.0	1	738	738
	45	8.0	2	838	1676
	46	8.0	2	323	646
	47	8.0	4	592	2368
	48	8.0	4	593	2372
	49	8.0	3	772	2316
	50	8.0	1	130	130
	51	8.0	3	210	630
	52	8.0	3	123	369
	53	8.0	2	338	676
	54	8.0	1	166	166
	55	8.0	2	387	774
	56	8.0	2	358	716
	57	8.0	2	368	736
	58	8.0	2	191	382
	59	8.0	2	1105	2210
	60	8.0	2	169	338
	61	8.0	2	235	470
	62	8.0	2	254	508
	63	8.0	2	1129	2258
	64	8.0	5	330	1650
	65	8.0	2	495	990
	66	8.0	2	255	510
	67	8.0	2	905	1810
	68	8.0	1	534	534
	69	8.0	2	1200	2400
	70	8.0	2	583	1166
	71	8.0	2	303	606
	72	8.0	2	564	1128
	73	8.0	4	156	624
	74	8.0	1	168	168
	75	8.0	1	171	171
	76	8.0	3	228	684
	77	8.0	1	231	231
	78	8.0	3	291	873
	79	8.0	1	168	168
	80	8.0	1	171	171
	81	8.0	3	228	684
	82	8.0	1	231	231
	83	8.0	3	291	873
	84	10.0	2	393	786
	85	10.0	6	755	4530
	86	10.0	6	335	2010
	87	10.0	8	510	4080
	88	10.0	4	310	1240
	89	10.0	2	300	600
	90	10.0	2	460	920
	91	10.0	2	207	414
	92	10.0	2	205	410
	93	10.0	2	191	382
	94	10.0	2	251	502
	95	10.0	2	192	384
	96	10.0	2	252	504
	97	10.0	1	368	368
	98	10.0	4	760	3040
	99	10.0	2	433	866
	100	10.0	2	201	402
	101	10.0	2	201	402
	102	10.0	1	137	137
	103	10.0	2	424	848
	104	10.0	1	398	398
	105	10.0	2	480	960
	106	10.0	2	957	1914
	107	12.5	2	753	1506
	108	12.5	3	375	1125
	109	12.5	2	600	1200
	110	16.0	2	475	950

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	6.3	1035.4	278.7
	8.0	620.2	269.2
	10.0	261	177
	12.5	38.3	40.6
	16.0	9.5	16.5
CA60	5.0	1159.7	196.6

PESO TOTAL (kg)

CA50	781.9
CA60	196.6

Volume de concreto (C-25) = 16.85 m³
Área de forma = 206.65 m²

ESTADO DE MATO GROSSO
PREFEITURA MUNICIPAL DE BARRA DO GARÇAS
CNPJ 01.435.226/0001-02
Rua Cangás, 532 centro - Barra do Garças MT - CEP 78.600-000

SECRETARIA MUNICIPAL DE PLANEJAMENTO URBANO E OBRAS

Folha : 10/13

COORDENADAS: 15° 53' 15,49" S, 52°18' 57,83" O

Obra :
CONSTRUÇÃO DE UNIDADE ESCOLAR COM QUADRA POLIESPORTIVA DA ESCOLA MUNICIPAL DOM JOSÉ SELVA

APROVAÇÃO

Conteúdo : PROJETO ESTRUTURAL IMPLANTAÇÃO GERAL DETALHE DAS VIGAS BALDRAME - 2
Local : RUA INDEPENDÊNCIA, SETOR CAMPINAS BARRA DO GARÇAS - MT
Proprietário : Prefeitura Municipal Barra do Garças

Autor do projeto:
Documento assinado digitalmente
govbr
INES ANTONIA DOS SANTOS
Data: 11/01/2023 12:08:24-0300
Verifique em https://validar.iti.gov.br

Prefeitura Municipal

INES ANTONIA DOS SANTOS
ENGENHEIRO CIVIL
CREA MT 070.129/D-1

Área Construída:
Dimensões:
Escala : INDICADA
Arquivo : CAD
Data : JANEIRO/2023
Projetista:

DECORO
O arquiteto e seu projeto