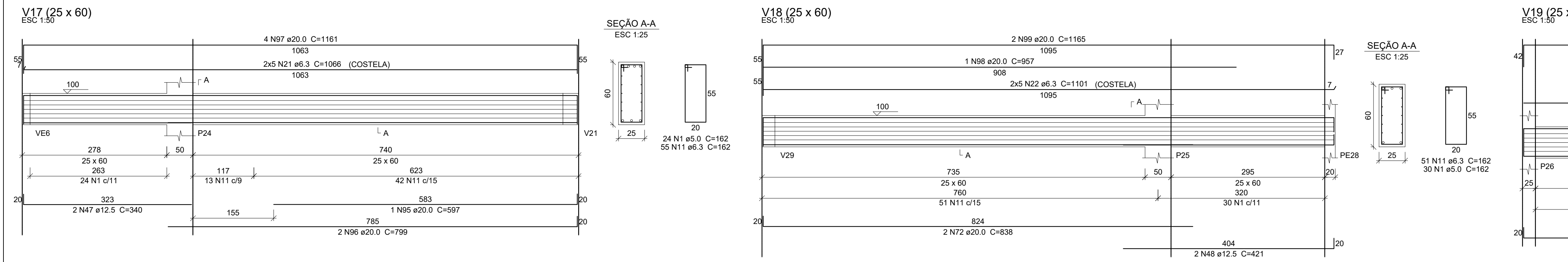
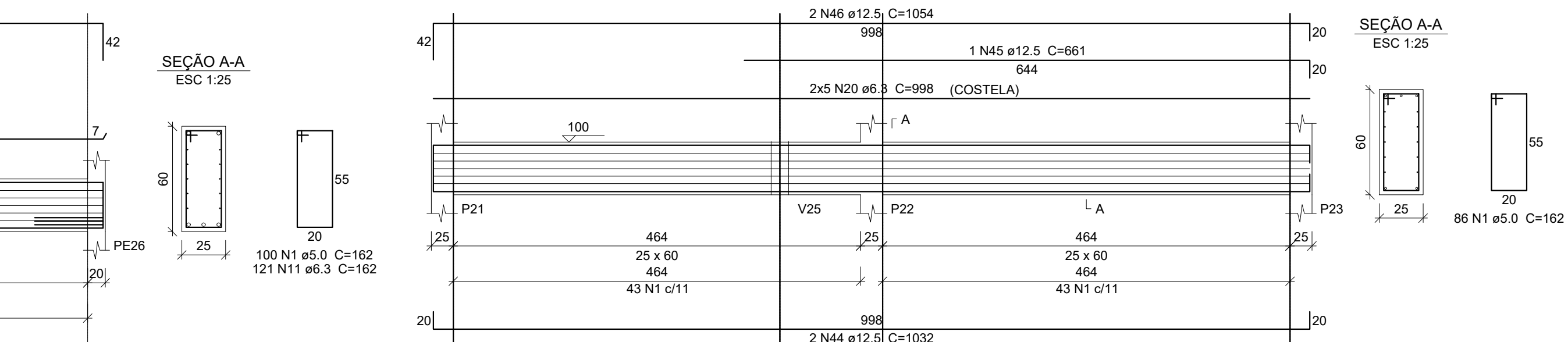
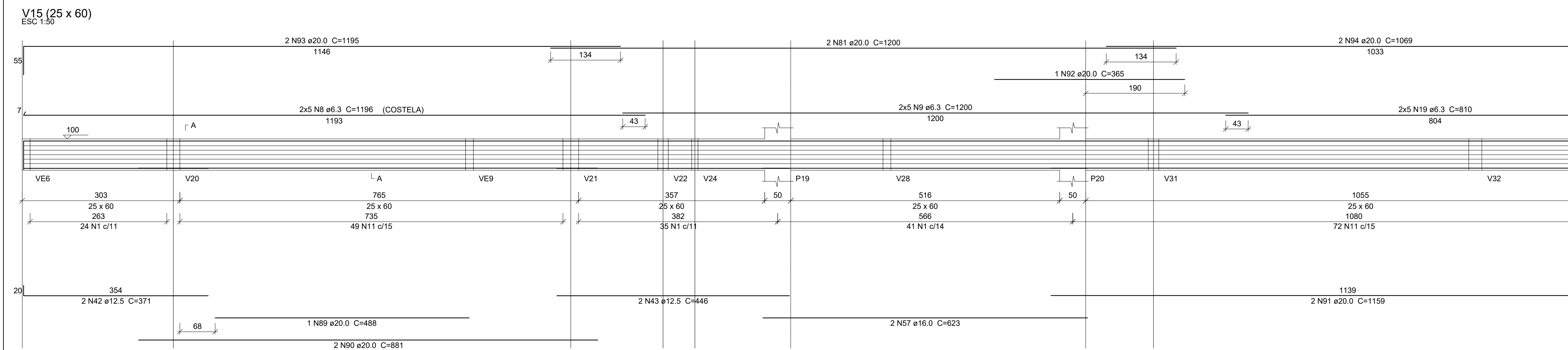
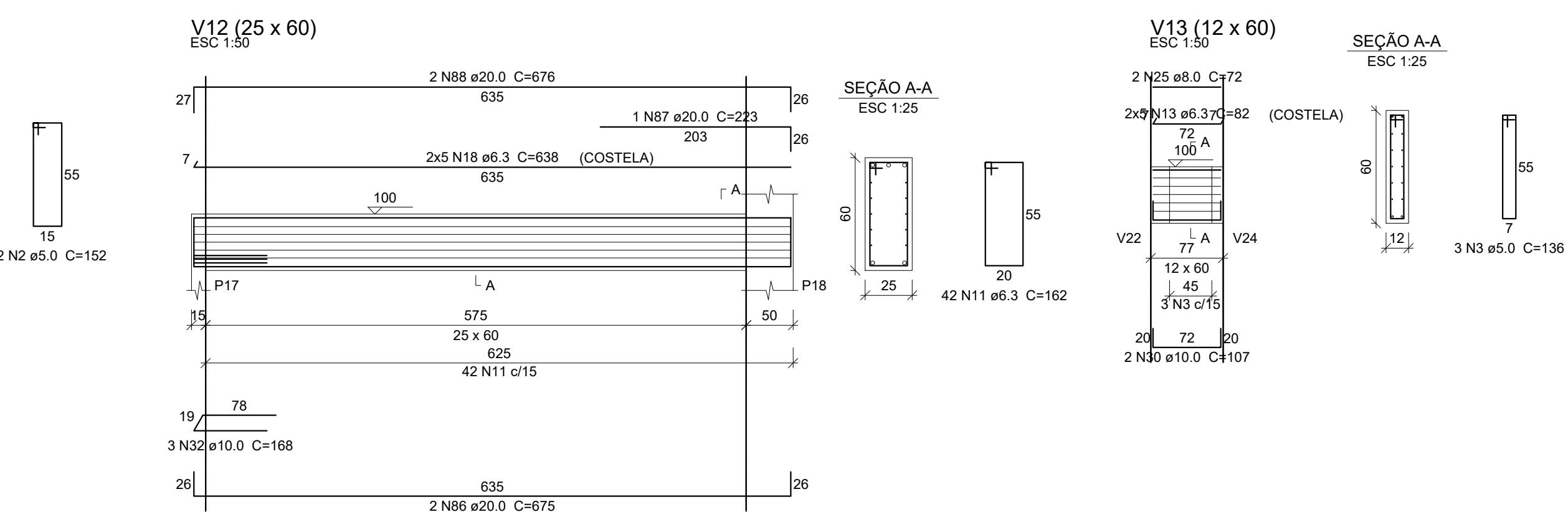
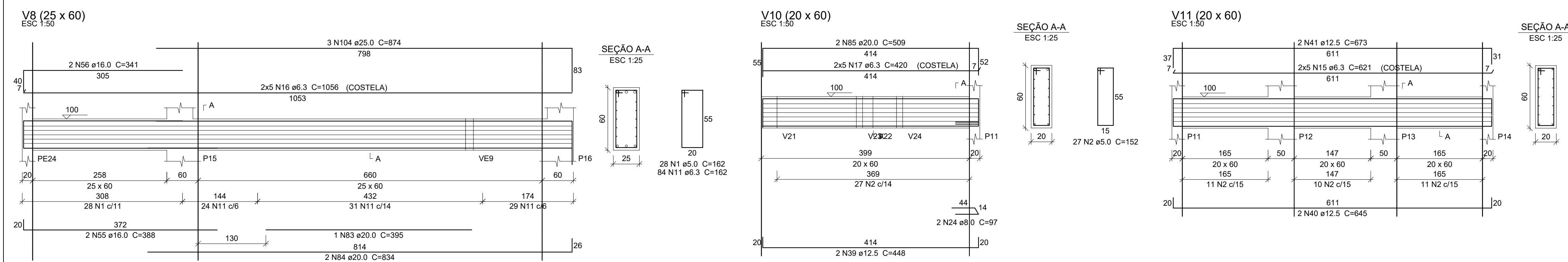
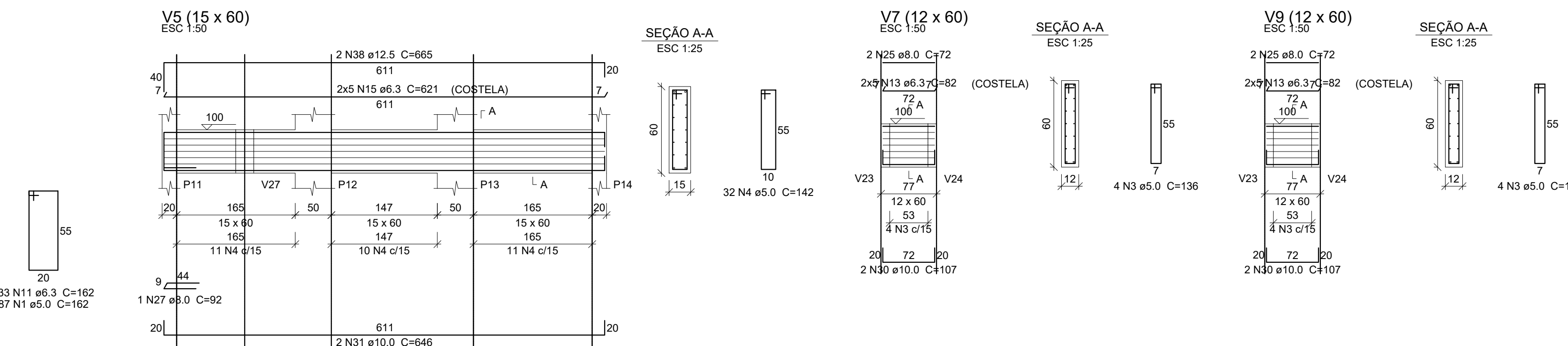
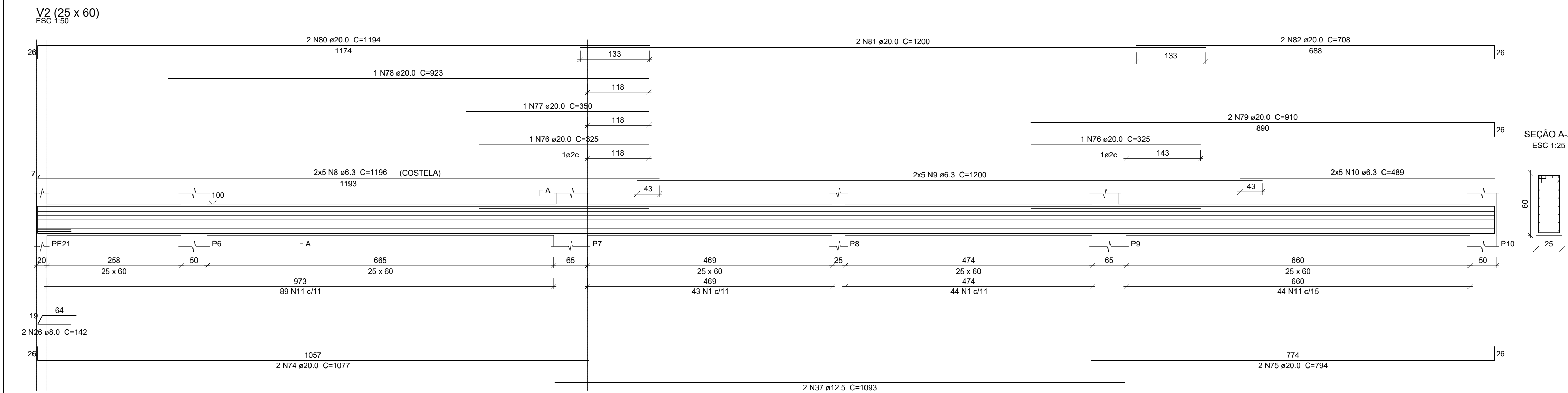
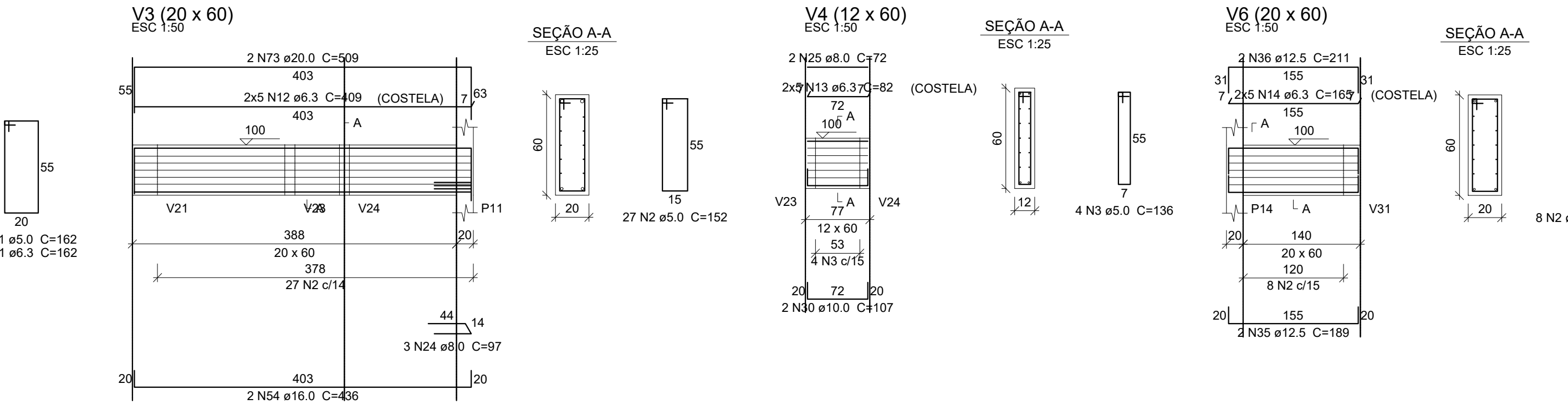
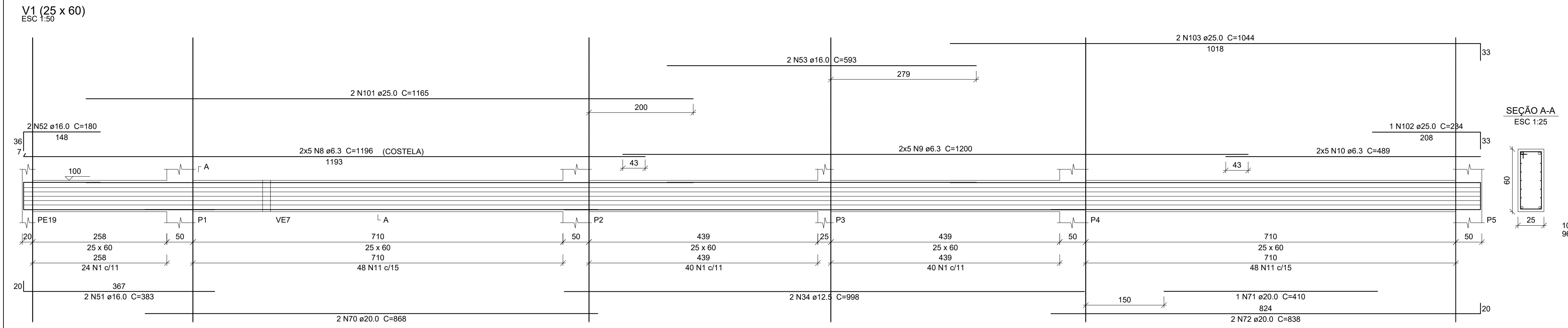


Relação do aço

V1	V2	V3
V4	V5	V6
V7	V8	V9
V10	V11	V12
V13	V15	V16
V14	V17	
V17		

AÇO	N	DIA (mm)	QUANT	CUNT (cm)	C.TOTAL (cm)
CA50	1	5.0	545	162	86200
	2	5.0	94	152	14280
	3	5.0	15	136	2040
	4	5.0	32	142	4560
	5	5.0	4	222	860
	6	5.0	165	182	31680
	7	5.0	160	168	26880
	8	6.3	30	1196	58800
	9	6.3	20	480	24000
	10	6.3	20	480	24000
CA50	11	6.3	20	480	24000
	12	6.3	562	102	94780
	13	6.3	40	85	32960
	14	6.3	10	165	9600
	15	6.3	20	621	24240
	16	6.3	10	1050	10500
	17	6.3	10	420	4200
	18	6.3	10	638	6380
	19	6.3	10	810	8100
	20	6.3	20	986	9860
	21	6.3	10	1066	10660
	22	6.3	10	1101	11010
	23	6.3	44	102	8440
	24	8.0	5	97	970
	25	8.0	8	72	720
	26	8.0	2	142	1420
	27	8.0	1	92	920
	28	8.0	20	1200	24000
	29	8.0	10	573	5730
	30	10.0	8	107	1070
	31	10.0	2	136	1360
	32	10.0	6	188	1880
	33	10.0	20	118	1180
	34	12.5	2	998	9980
	35	12.5	2	189	1890
	36	12.5	2	1093	10930
	37	12.5	2	2186	21860
	38	12.5	2	865	8650
	39	12.5	2	448	4480
	40	12.5	2	645	6450
	41	12.5	2	1346	13460
	42	12.5	2	371	3710
	43	12.5	2	742	7420
	44	12.5	4	692	6920
	45	12.5	1	661	6610
	46	12.5	2	2108	21080
	47	12.5	2	340	3400
	48	12.5	2	431	4310
	49	12.5	1	245	2450
	50	12.5	2	1078	10780
51	16.0	2	766	7660	
52	16.0	2	180	1800	
53	16.0	2	341	3410	
54	16.0	2	438	4380	
55	16.0	2	388	3880	
56	16.0	2	692	6920	
57	16.0	2	623	6230	
58	16.0	2	854	8540	
59	16.0	2	294	2940	
60	16.0	2	1074	10740	
61	16.0	2	369	3690	
62	16.0	2	774	7740	
63	16.0	2	634	6340	
64	16.0	2	528	5280	
65	16.0	2	888	8880	
66	16.0	2	284	2840	
67	16.0	2	1197	11970	
68	16.0	2	2400	24000	
69	16.0	2	784	7840	
70	20.0	2	686	6860	
71	20.0	1	410	4100	
72	20.0	4	838	8380	
73	20.0	2	609	6090	
74	20.0	2	1077	10770	
75	20.0	2	194	1940	
76	20.0	2	350	3500	
77	20.0	1	603	6030	
78	20.0	2	913	9130	
79	20.0	2	1194	11940	
80	20.0	2	1194	11940	
81	20.0	4	1200	12000	
82	20.0	2	708	7080	
83	20.0	1	385	3850	
84	20.0	2	834	8340	
85	20.0	2	509	5090	
86	20.0	2	675	6750	
87	20.0	1	223	2230	
88	20.0	2	876	1350	
89	20.0	1	488	4880	
90	20.0	2	881	1760	
91	20.0	2	1159	2310	
92	20.0	1	365	3650	
93	20.0	2	1195	2390	
94	20.0	2	1089	2170	
95	20.0	1	597	5970	
96	20.0	2	799	1590	
97	20.0	4	1161	4640	
98	20.0	1	867	8670	
99	20.0	2	1165	2330	
100	20.0	4	1376	5500	
101	25.0	2	1165	2330	
102	25.0	1	234	2340	
103	25.0	2	1044	2080	
104	25.0	3	874	2620	



Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	5.0	744.8	744.8
	6.3	311.7	135.3
	10.0	62.3	42.2
	12.5	223	296.2
	16.0	218.8	378.8
CA60	5.0	1696.1	1696.1
	6.3	72.8	308.3
	10.0	25.0	104.4
	12.5	25.0	311.5
	16.0	25.0	234

PESO TOTAL (kg)
CA50 3191.5
CA60 285.9

Volume de concreto (C=30) = 31.47 m³
Área de forma = 202.26 m²

ITEM	REVISÃO (CONTEÚDO)	RESPONS.	DATA

PROPRIETÁRIO: SERVIÇO SOCIAL DO COMÉRCIO - SESC

AUTOR DO PROJETO: ENGº CIVIL E ARQ ALEXANDRE DE MORAES FERREIRA - CREA/PA 43930

DESENV. DO PROJETO: ENGº CIVIL ALMIR MAGALHÃES JR. - CREA/PA 151086898-4D

PREFEITURA	BOMBEIROS

DEMAIS ÓRGÃOS

PROPRIETÁRIO: SERVIÇO SOCIAL DO COMÉRCIO - SESC

PROJETO: CONSTRUÇÃO DE OB. DE PAVIMENTOS DA UNIDADE DOCA

PROPOSTA: ESTRUCTURA

PROJETO EXECUTIVO

CONTEÚDO: ARMAÇÃO DAS VIGAS DO TERREO - PARTE 1

DESCRIÇÃO: PRANCHAS

TOTAL

EST 27/64

FECHA: INDICADA

DATA: JUNHO-2018

REVISÃO: 000

REVISOR: ENGº CIVIL ALMIR MAGALHÃES JR.