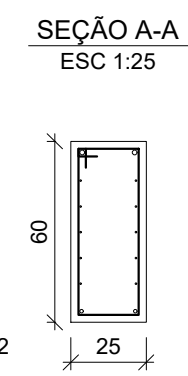
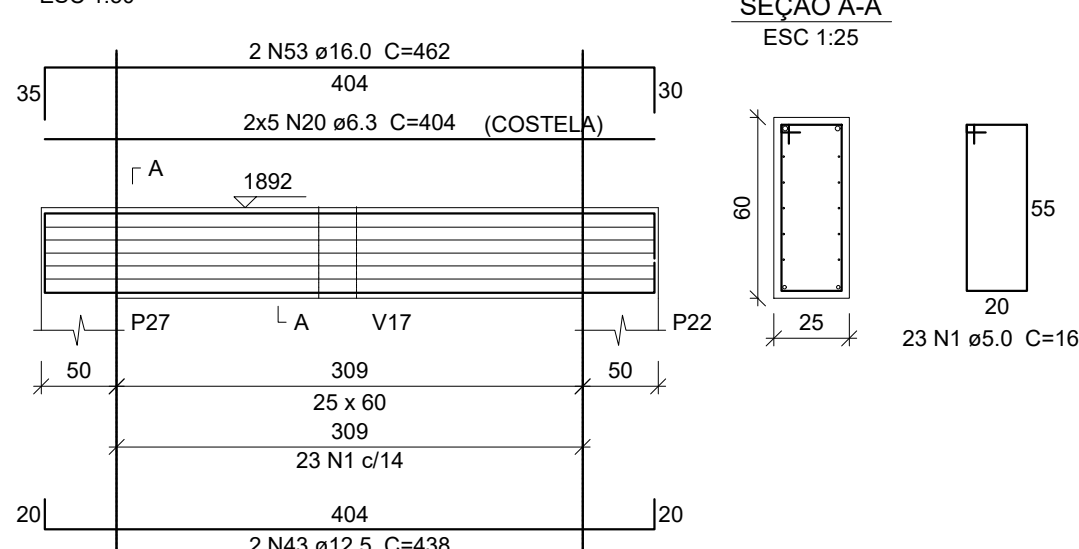
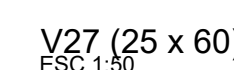
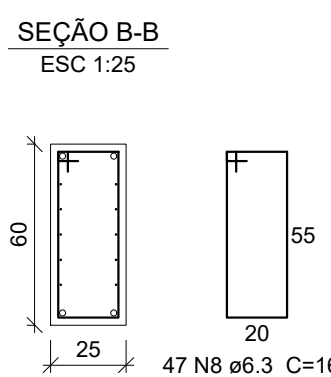
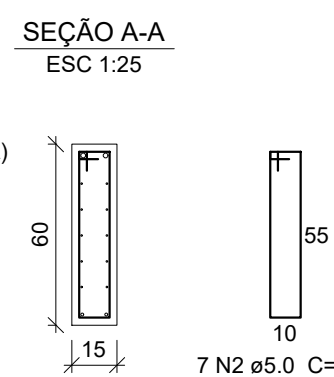
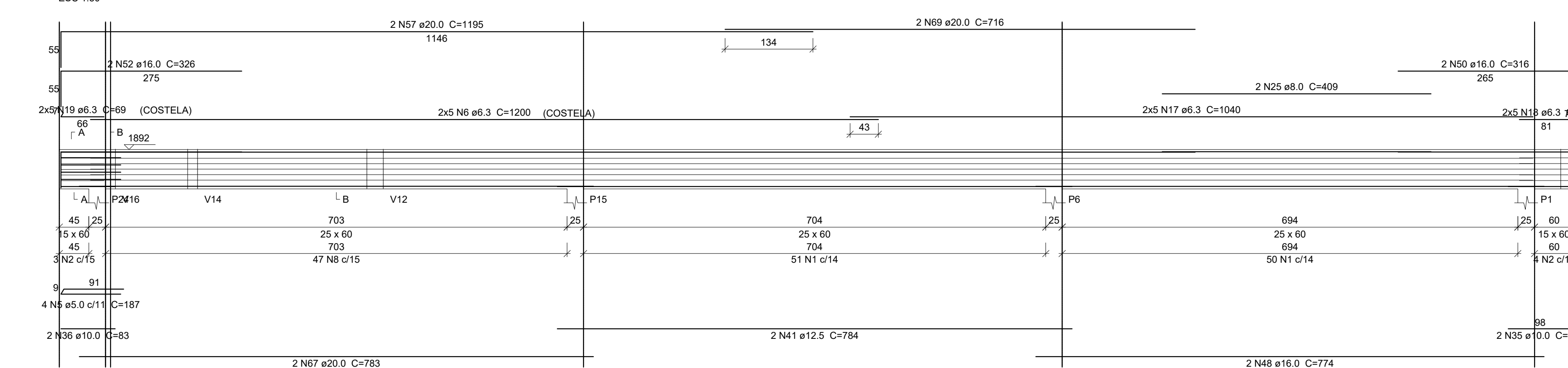
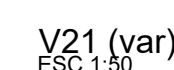
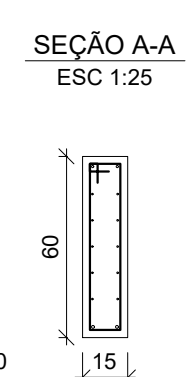
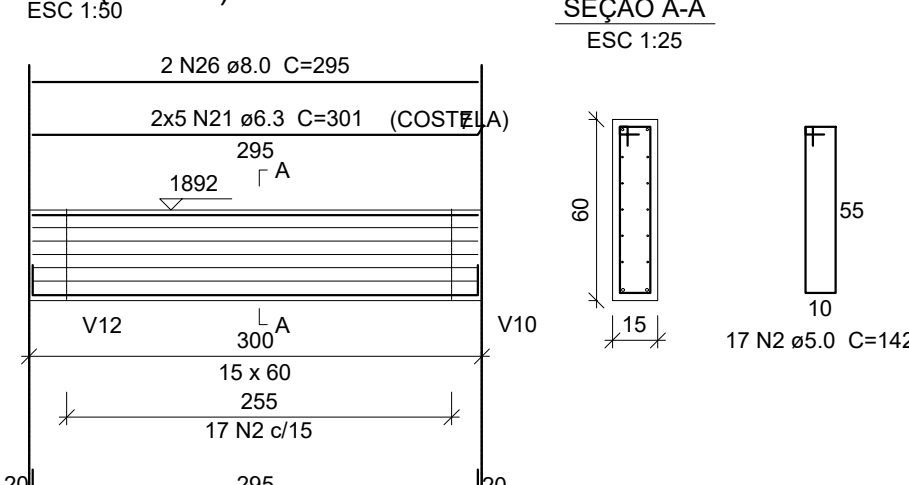
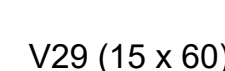
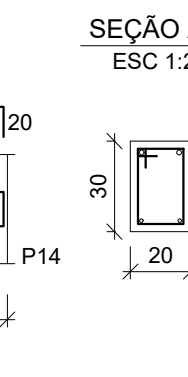
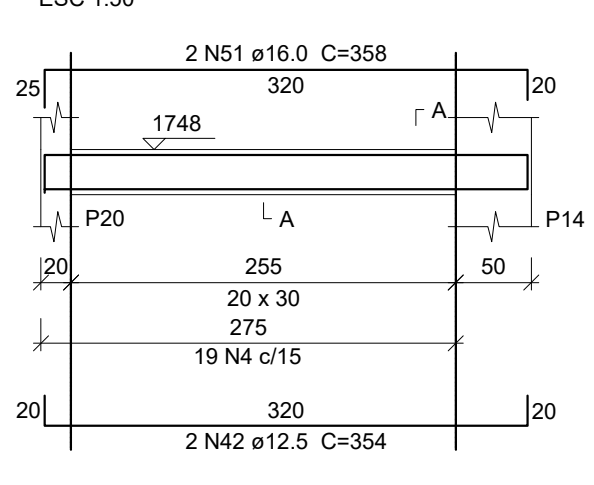
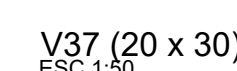
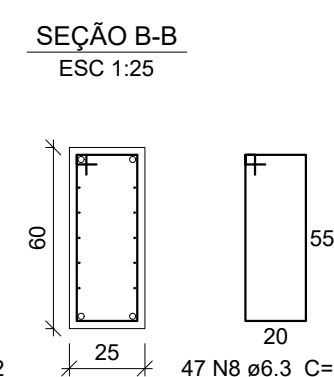
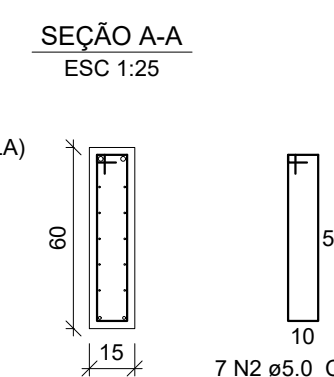
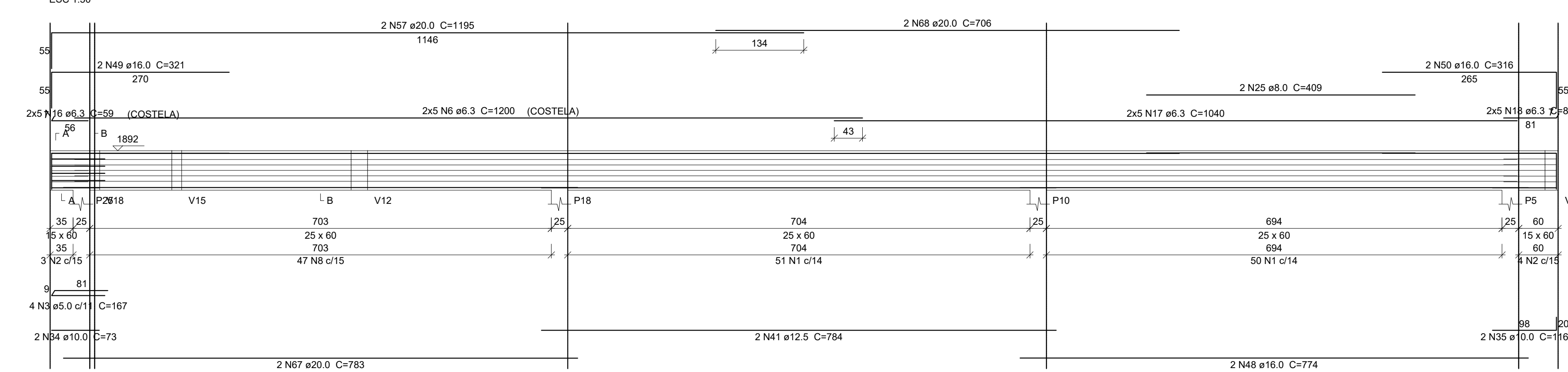
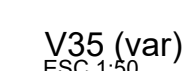
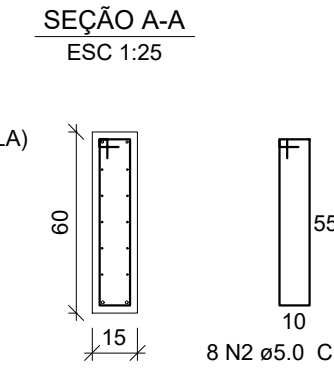
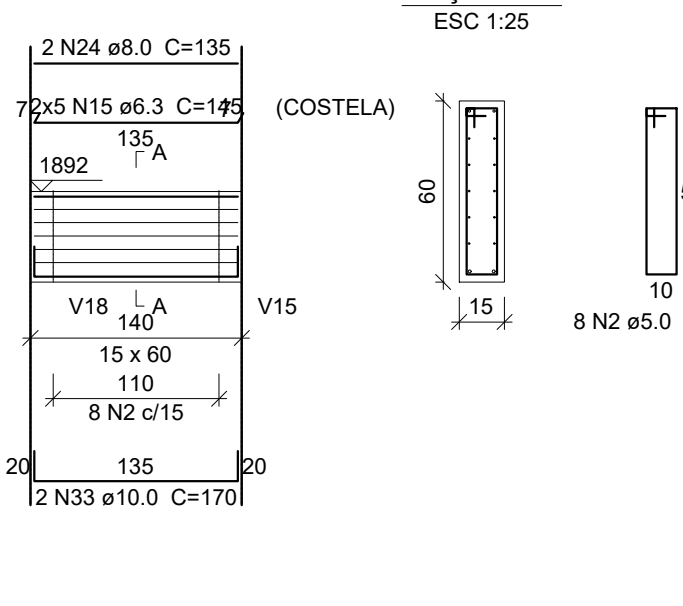
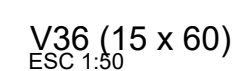
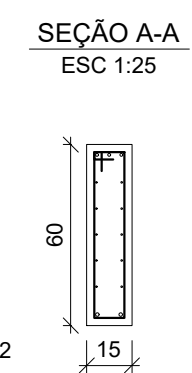
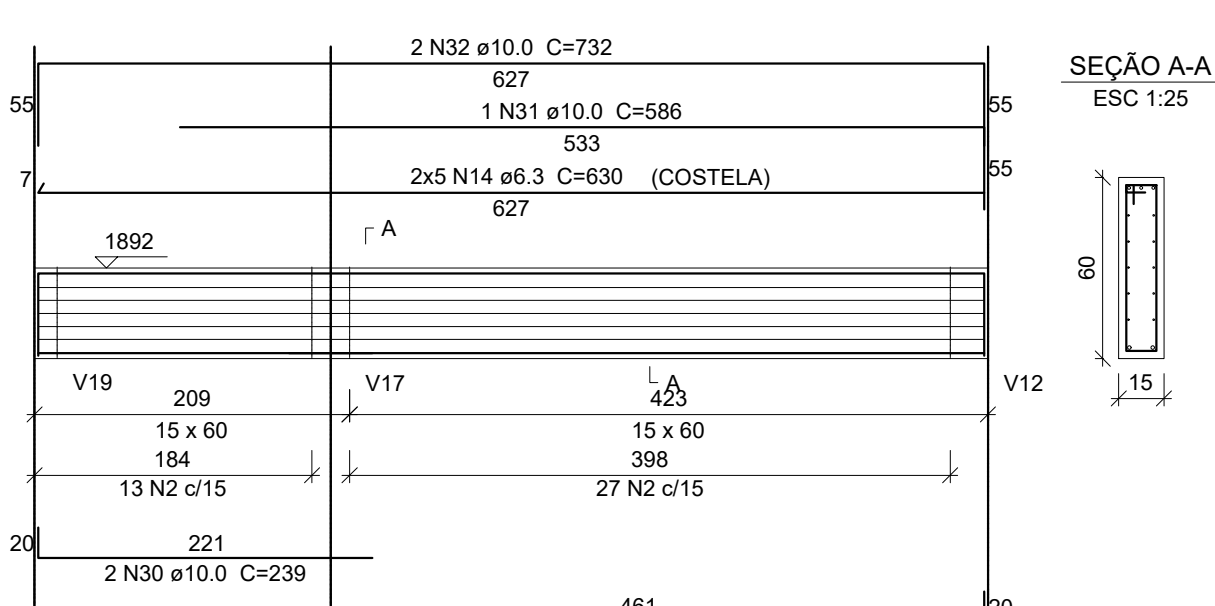
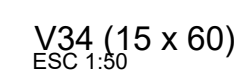
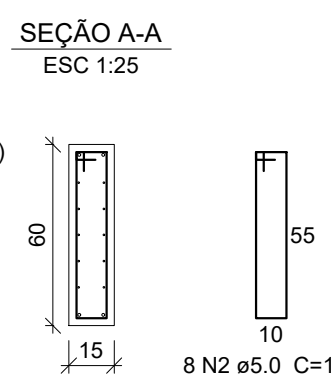
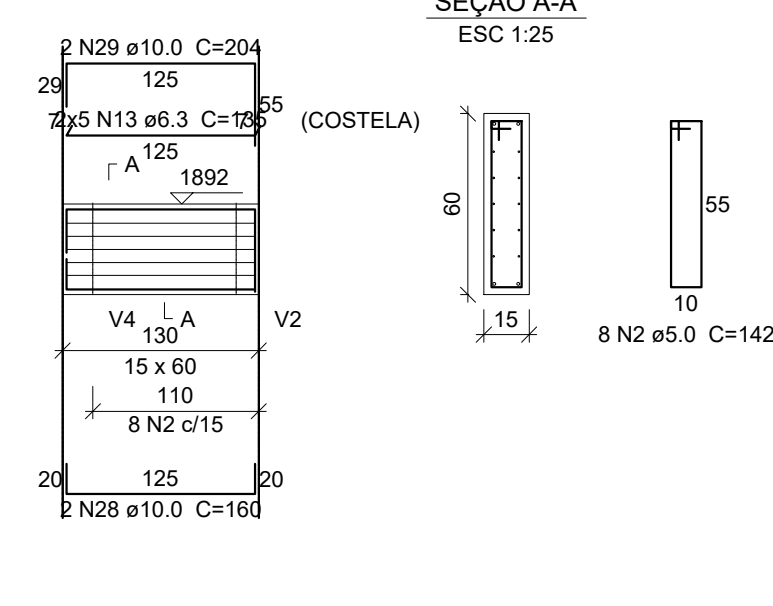
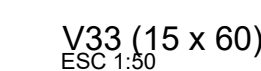
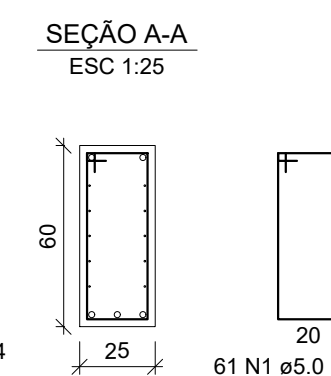
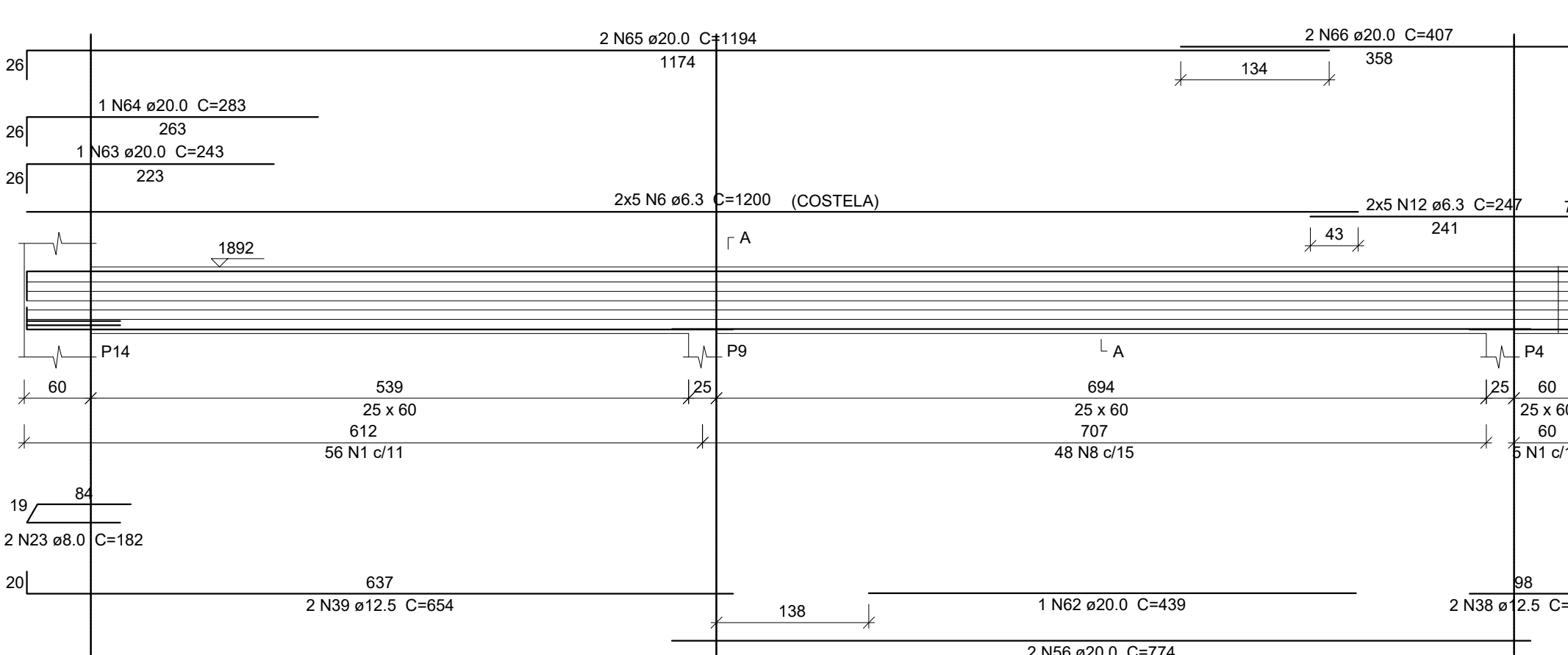
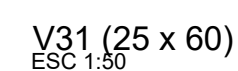
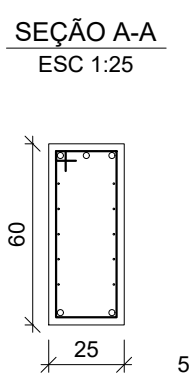
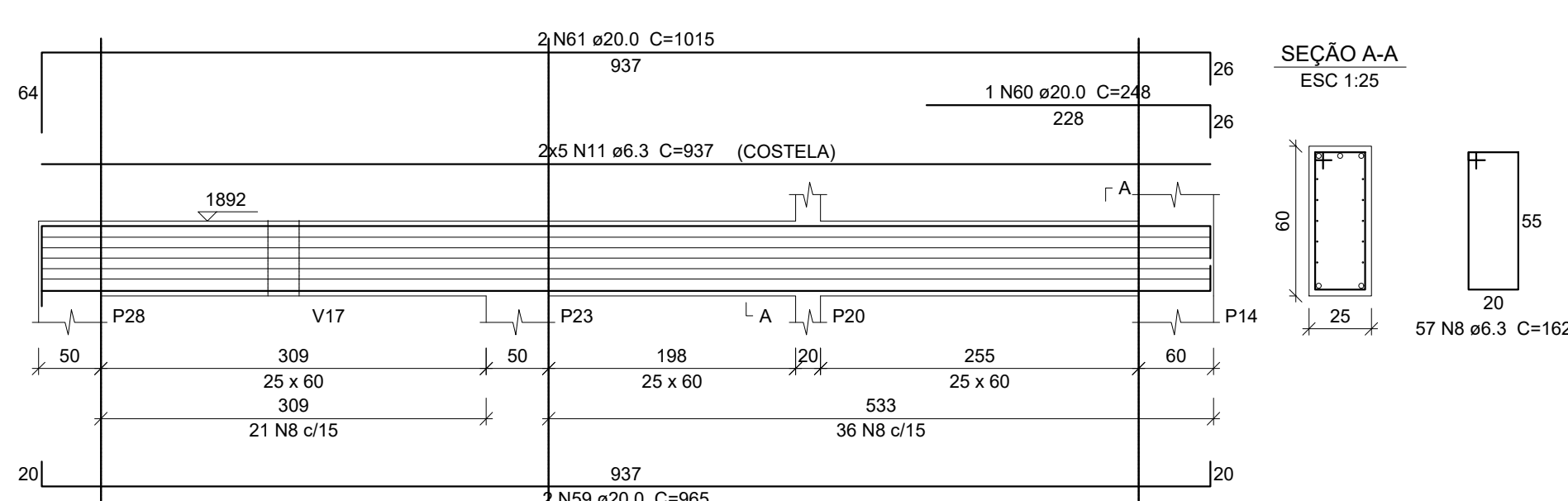
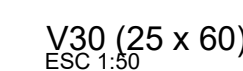


V21	V25	V27
V26	V28	V30
V31	V33	V34
V35	V36	

A/C	N	DIA	Q	Q	C	C
					UNIT	TOTAL
CA60	1	10.0	443	162	1766	12354
	2	5.0	87	142	1334	12354
	3	5.0	87	142	1334	12354
	4	5.0	19	142	92	1748
	5	5.0	19	142	92	1748
CA50	6	5.0	19	142	92	1748
	7	6.3	10	132	132	132
	8	6.3	10	132	132	132
	9	6.3	10	132	132	132
	10	6.3	10	132	132	132
	11	6.3	10	132	132	132
	12	6.3	10	132	132	132
	13	6.3	10	132	132	132
	14	6.3	10	132	132	132
	15	6.3	10	132	132	132
	16	6.3	10	132	132	132
	17	6.3	10	1040	2080	1748
	18	6.3	174	20	69	69
	19	6.3	10	69	69	69
	20	6.3	10	434	404	404
CA40	21	6.3	10	3010	3010	3010
	22	8.0	2	104	204	204
	23	8.0	2	182	362	362
	24	8.0	2	132	272	272
	25	8.0	2	409	1638	1638
	26	10.0	2	590	290	290
	27	10.0	16	118	1888	1888
	28	10.0	2	160	320	320
	29	10.0	2	204	404	404
	30	10.0	2	239	478	478
	31	10.0	2	588	1176	1176
	32	10.0	2	732	1464	1464
	33	10.0	2	770	340	340
	34	10.0	2	141	73	73
	35	10.0	2	116	464	464
CA30	36	10.0	2	167	167	167
	37	10.0	2	330	660	660
	38	12.5	4	115	455	455
	39	12.5	2	1320	1320	1320
	40	12.5	2	378	756	756
	41	12.5	2	484	968	968
	42	12.5	2	654	707	707
	43	12.5	2	438	876	876
	44	12.5	2	366	732	732
	45	16.0	2	671	1258	1258
	46	16.0	2	651	1262	1262
	47	16.0	2	755	1510	1510
	48	16.0	2	774	3090	3090
	49	16.0	2	642	301	301
	50	16.0	2	316	1234	1234
CA20	51	16.0	2	358	716	716
	52	16.0	2	320	640	640
	53	16.0	2	462	924	924
	54	16.0	2	241	241	241
	55	20.0	2	963	1926	1926
	56	20.0	2	774	3090	3090
	57	20.0	2	1188	2376	2376
	58	20.0	2	737	674	674
	59	20.0	2	642	1926	1926
	60	20.0	1	248	248	248
	61	20.0	2	1015	2030	2030
	62	20.0	1	431	431	431
	63	20.0	1	243	243	243
	64	20.0	1	283	283	283
	65	20.0	2	1194	2388	2388
CA10	66	20.0	2	407	814	814
	67	20.0	2	3133	7833	7833
	68	20.0	2	706	1412	1412
	69	20.0	2	716	1432	1432
	70	25.0	2	1193	2386	2386
	71	25.0	2	1260	2520	2520
CA5	72	25.0	2	98	478	478
	73	25.0	2	98	478	478



AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	8.3	1756.1	472.7
	8.0	31.3	13.6
	10.0	69.2	46.9
	12.5	74.5	78.9
	16.0	119.8	208
	20.0	274.6	744.9
CA60	25.0	57.5	143
	5.0	872.9	248.4
PESO TOTAL (kg)			
CA50	1806.3		
CA60	148		


ITEM	REVISÃO (CONTEÚDO)	RESPONS.	DATA

PROPRIETÁRIO: SERVIÇO SOCIAL DO COMÉRCIO - SESC

AUTOR DO PROJETO: ENGº CIVIL E ARO ALEXANDRE DE MORAES FERREIRA - CREA/PA 4393D

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

PREFEITURA	BOMBEIROS
	DEMAIS ÓRGÃOS

PROJETO		PROJETO		CONSTRUÇÃO ED. DE PAGAMENTOS DA UNIDADE DOCA	
 <p>Engenharia e arquitetura a pasagismo lida.</p> <p>Fone: (011) 3044-0700 www.a3lgbk.com.br</p>		DISCIPLINA		ESTRUTURA	
FASE		PROJETO EXECUTIVO			
CONTÉUDO		ARMADAÇÃO DAS VIGAS DA COBERTURA - PARTE 2		DISCIPLINA PRIMEIRA TOTAL	
 <p>EDIFICIO</p> <p>AUTORES</p> <p>PROFESSOR RESPONSÁVEL</p>		<p>ILIANA SENADOR MANDOL BARBATA Nº 1073 - REDITO - RELEMPA</p> <p>ENY CIVIL E ARA ALEXANDRE DE MORAES FERREIRA - CREA-PA 43900</p> <p>ENY CIVIL ALNIR MAGALHÃES JR - CREA-PA 15109888-40</p> <p>ENY CIVIL E ARA ALEXANDRE DE MORAES FERREIRA - CREA-PA 43900</p>		EST 43/64	
DISCIPLINA		DATA		ASSINATURA	
INDICADA		JUNHO-2018		ENY CIVIL ALNIR MAGALHÃES JR	