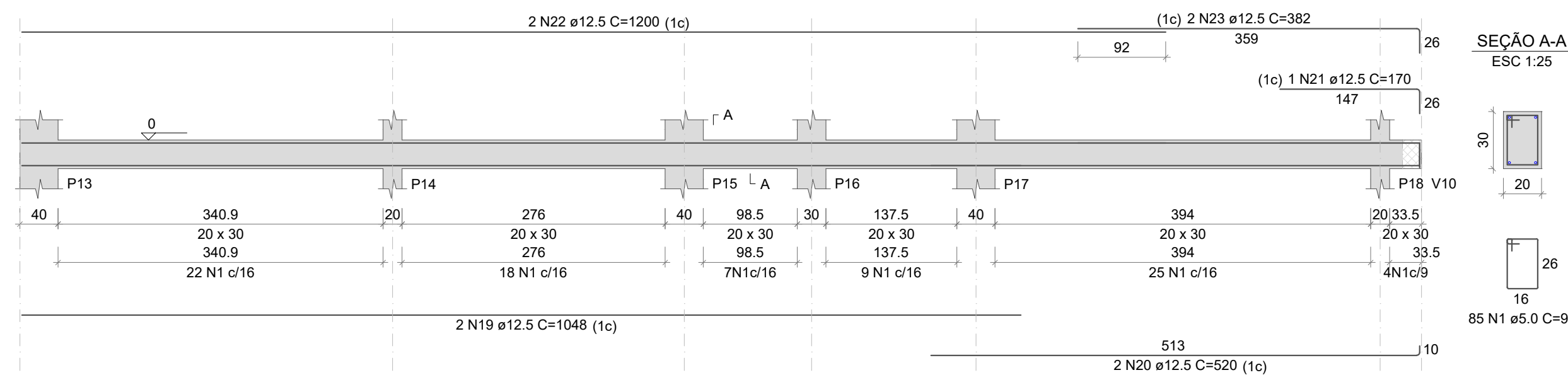
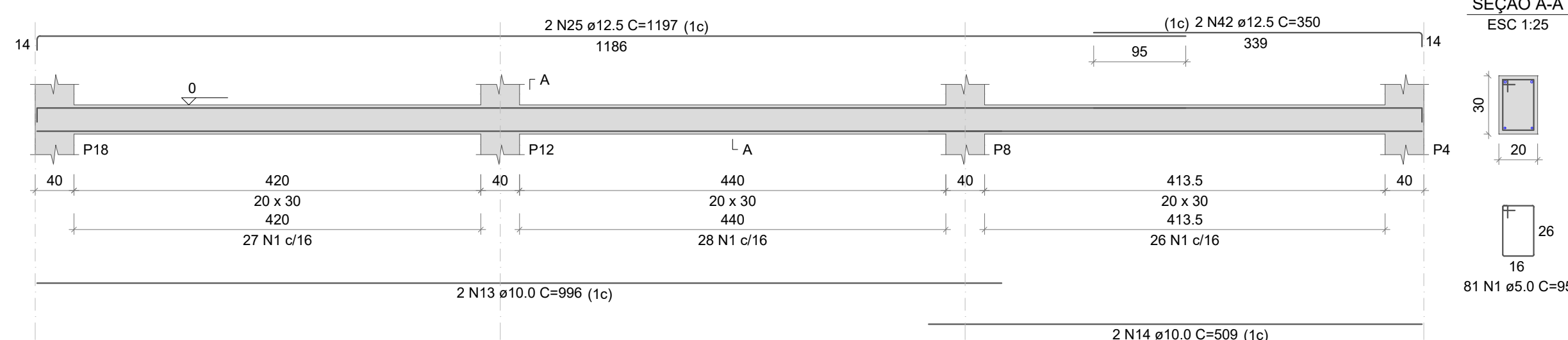
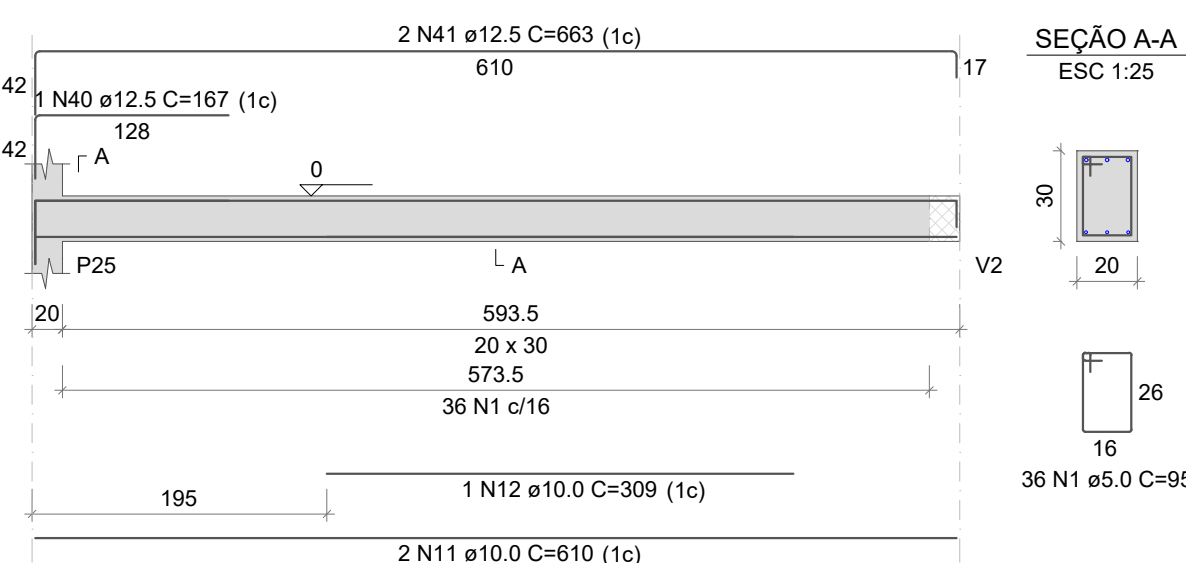
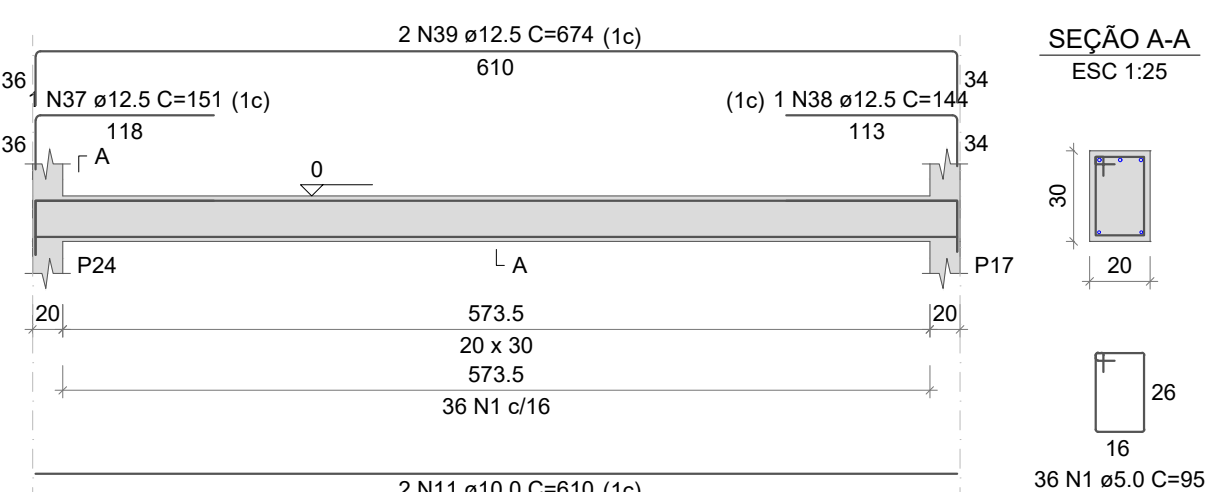
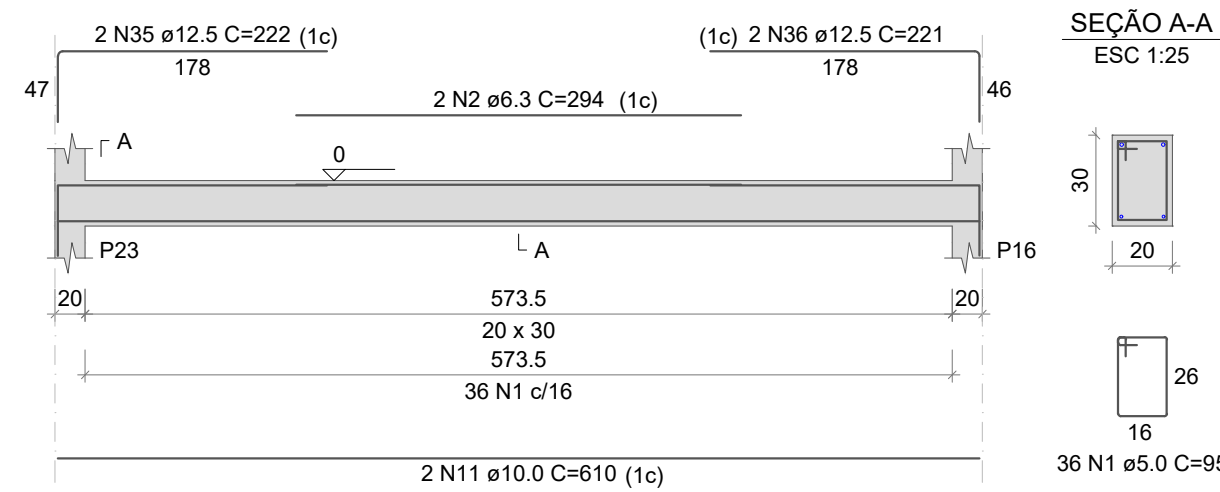
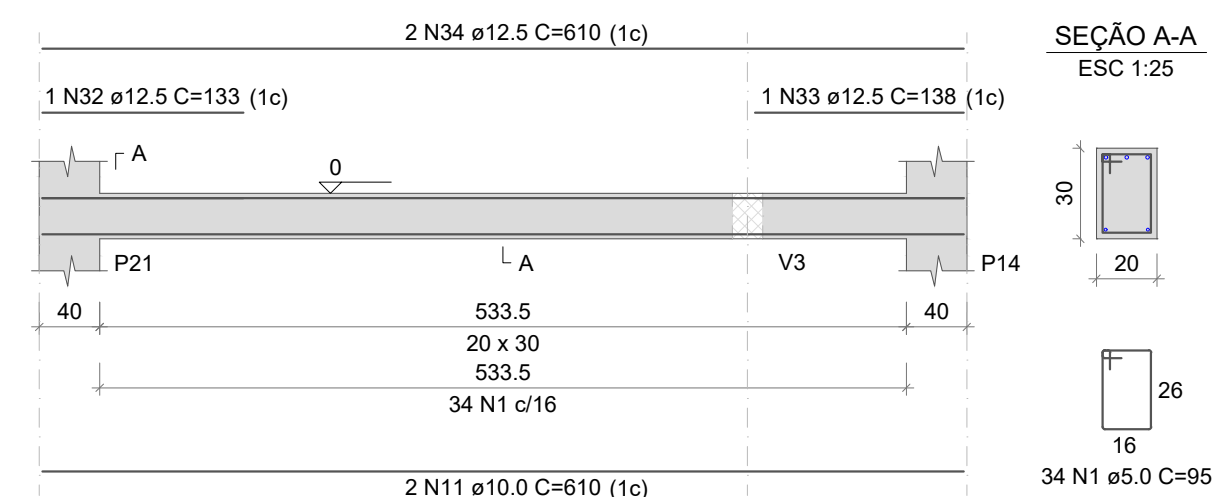
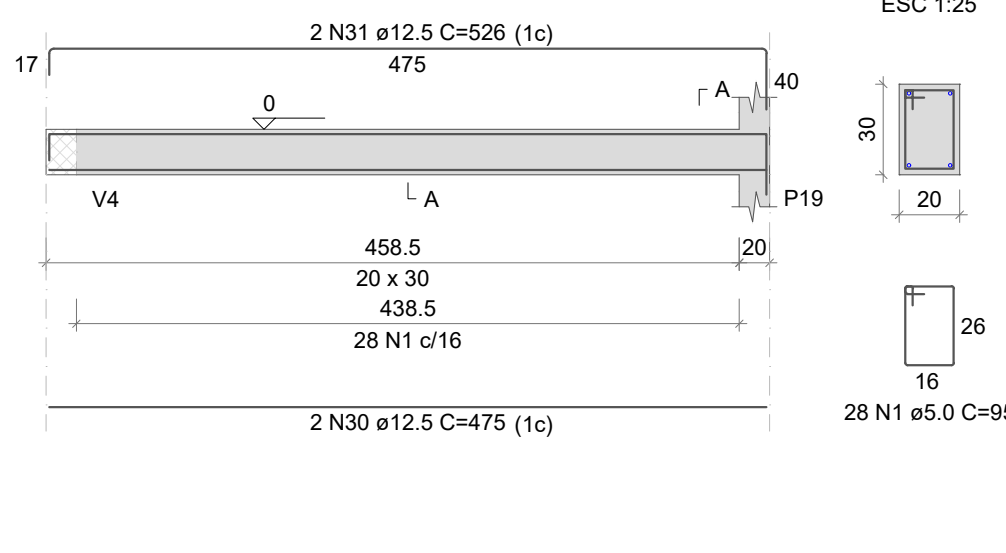
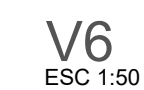
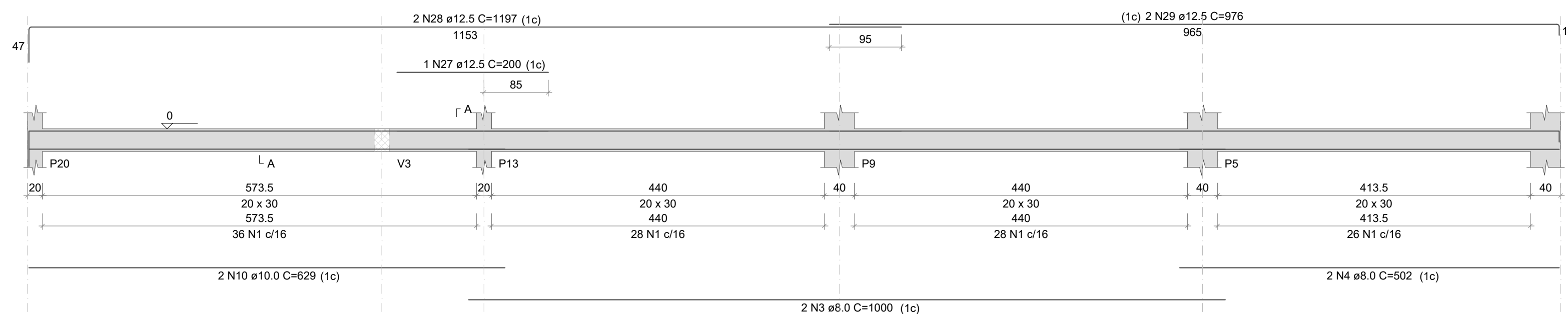
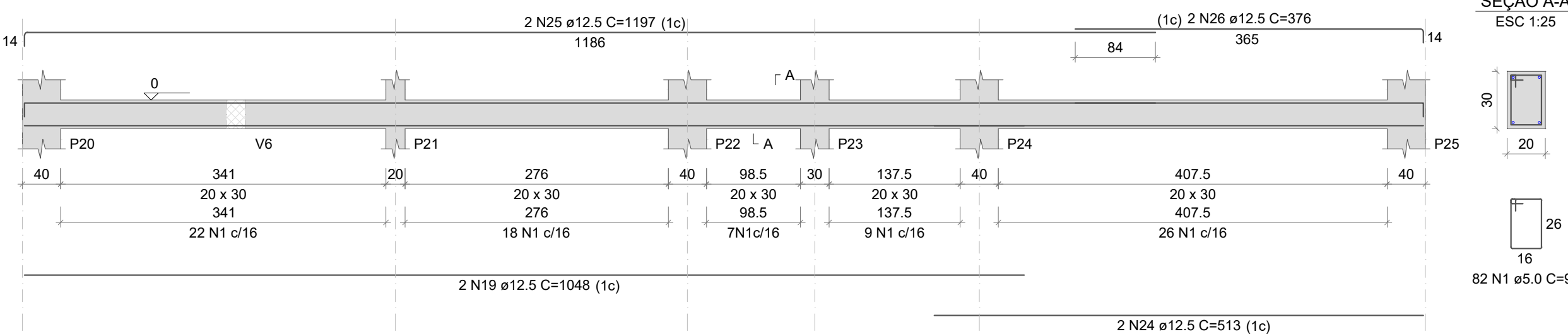
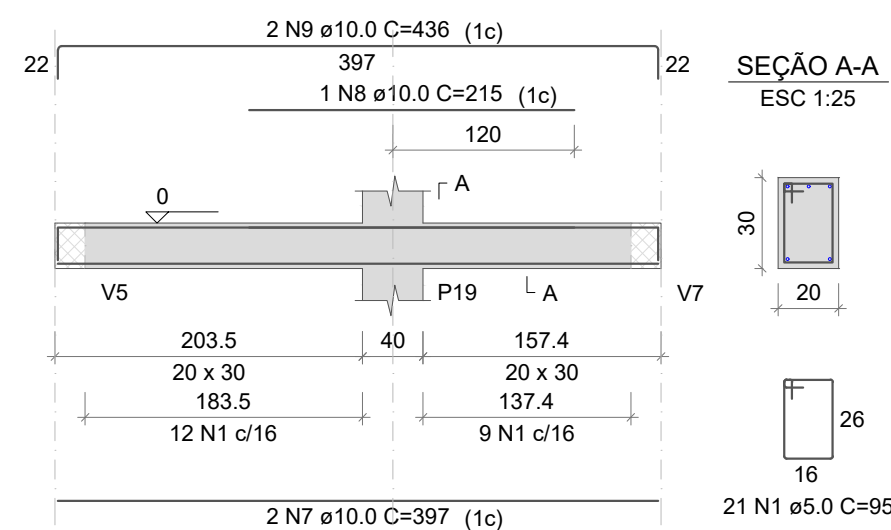
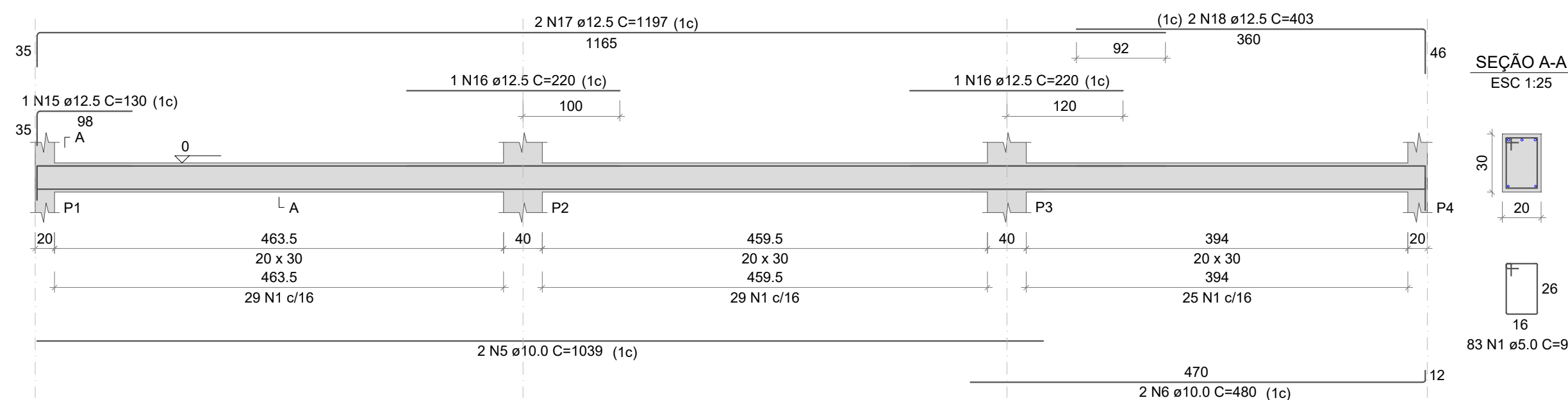




RELAÇÃO DO AÇO						
V1	V2	V3				
V4	V8	V9				
V10	V11					
AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)	
CA60	1	5,0	640	95	60800	
CA50	2	6,3	2	294	588	
	3	8,0	2	1000	2000	
	4	8,0	2	502	1004	
	5	10,0	2	1038	2078	
	6	10,0	2	480	960	
	7	10,0	2	397	794	
	8	10,0	1	215	215	
	9	10,0	2	436	872	
	10	10,0	2	629	1258	
	11	10,0	8	610	4880	
	12	10,0	1	309	309	
	13	10,0	2	996	1992	
	14	10,0	2	509	1018	
	15	12,5	1	130	130	
	16	12,5	2	440	880	
	17	12,5	2	1197	2394	
	18	12,5	2	403	806	
	19	12,5	4	1048	4192	
	20	12,5	2	520	1040	
	21	12,5	1	170	170	
	22	12,5	2	1200	2400	
	23	12,5	2	382	764	
	24	12,5	2	513	1026	
	25	12,5	4	1197	4788	
	26	12,5	2	376	752	
	27	12,5	1	200	200	
	28	12,5	2	1197	2394	
	29	12,5	2	976	1952	
	30	12,5	2	475	950	
	31	12,5	2	526	1052	
	32	12,5	1	133	133	
	33	12,5	1	138	138	
	34	12,5	1	1220	1220	
	35	12,5	2	222	444	
	36	12,5	2	221	442	
	37	12,5	1	151	151	
	38	12,5	1	144	144	
	39	12,5	2	674	1348	
	40	12,5	1	167	167	
	41	12,5	3	663	1986	
	42	12,5	2	350	700	

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	6.3	5.9	1.6
	8.0	30	13
	10.0	143.8	97.5
	12.5	316.6	335.5
CA60	5.0	608	103.1

Volume de concreto (C-25) = 6.01 m³
Área de forma = 89.37 m²

 LIGA ENGENHARIA		Você sonha, nós concretizamos!  55 99684 4832 55 99713 6336  ligaengenharia@hotmail.com Avenida Jacob Ermino Hartmann, nº 223 São Martinho/RS	
TÍTULO: ESTRUTURAL - VIGAS COBERTURA			
PROPRIETÁRIOS: Prefeitura Municipal de São Martinho-RS		CPF: 87.613.097/0001-96	
ENDEREÇO: Ampliação Escola Municipal de Ensino Fundamental Pe. Antônio Michels, São Martinho - RS Av. Pedro Dutra, 59, Centro, São Martinho/RS			
ÁREA: 295,14m ²	DATA: Dezembro/2022	UNIDADE DE MEDIDA: metros	ESCALA: 1:50
AUTOR DO PROJETO: Gabriela Blatt			
Prefeitura Municipal de São Martinho-RS Proprietário		Gabriela Blatt Responsável Técnico Eng. Civil - CREA RS221572	

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