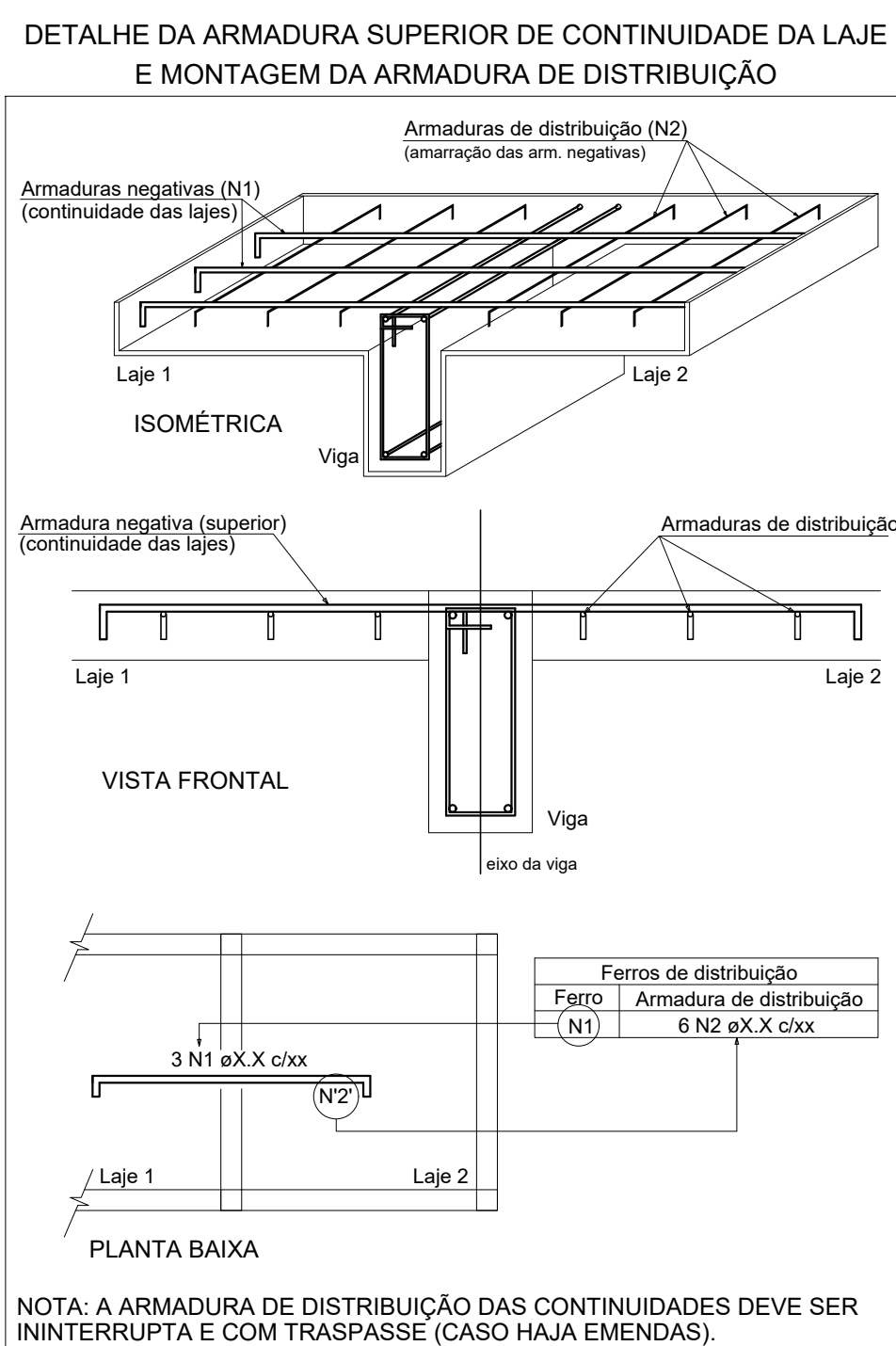
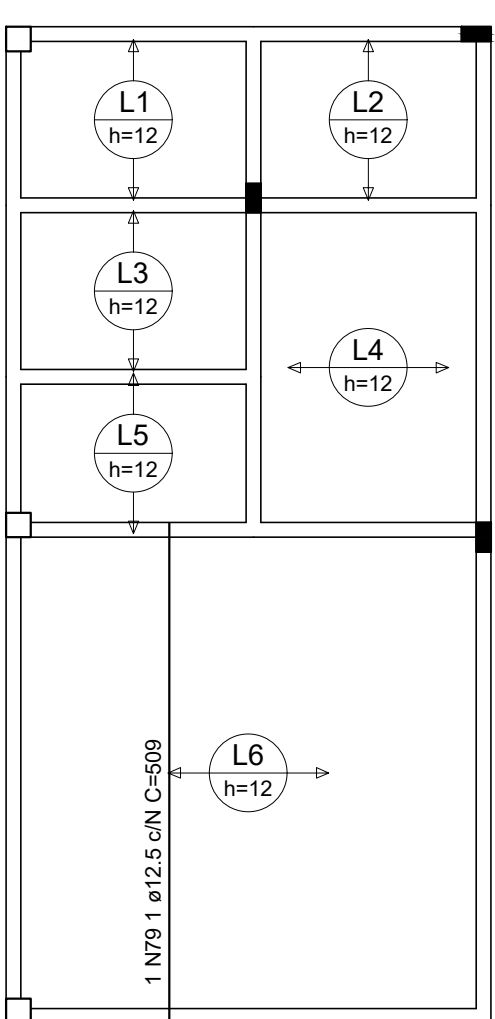


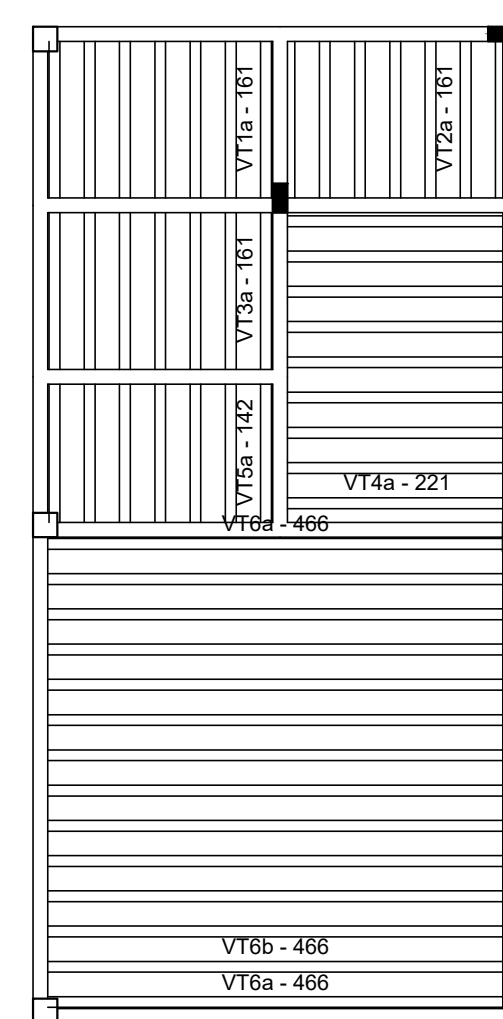
Armadura	Armaduras de distribuição
N1	6 N2 a5.0 c20 C=182
N2	3 N4 a5.0 c20 C=208
N3	3 N6 a5.0 c20 C=106
N4	6 N8 a5.0 c20 C=345
N5	3 N7 a5.0 c20 C=175
N6	3 N8 a5.0 c20 C=222
N7	6 N9 a5.0 c20 C=235
N8	6 N10 a5.0 c20 C=177
N9	3 N7 a5.0 c20 C=175
N10	6 N6 a5.0 c20 C=245
N11	3 N11 a5.0 c20 C=333
N12	6 N12 a5.0 c20 C=156
N13	7 N4 a5.0 c20 C=236
N14	3 N14 a5.0 c20 C=148
N15	4 N16 a5.0 c20 C=483
N16	4 N17 a5.0 c20 C=489
N17	4 N18 a5.0 c20 C=471



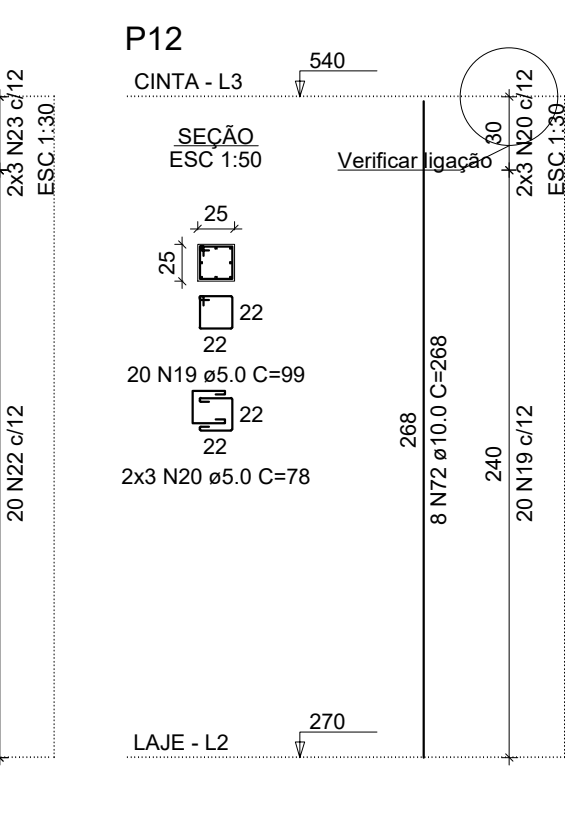
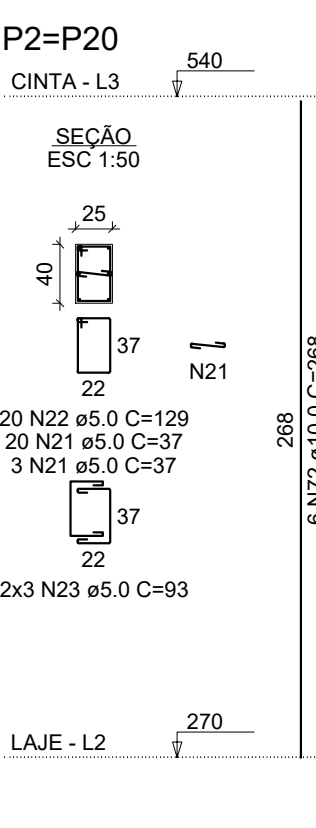
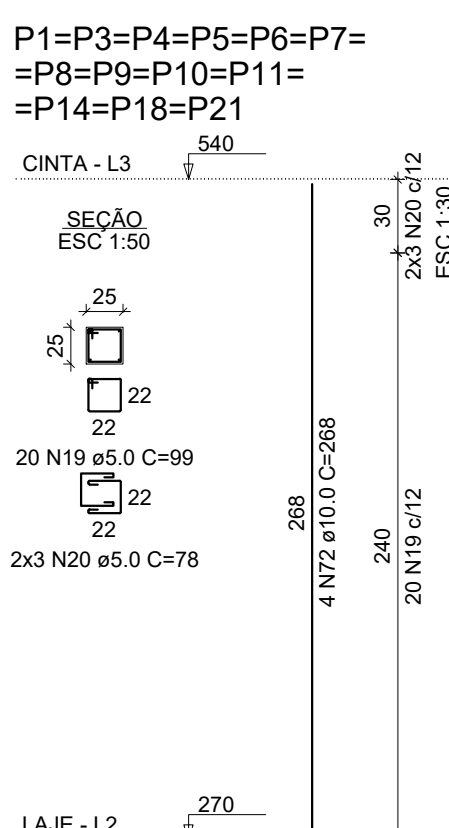
Armação positiva das lajes do pavimento laje



Armação positiva das lajes do pavimento laje



Planta de vigotas pré-moldadas



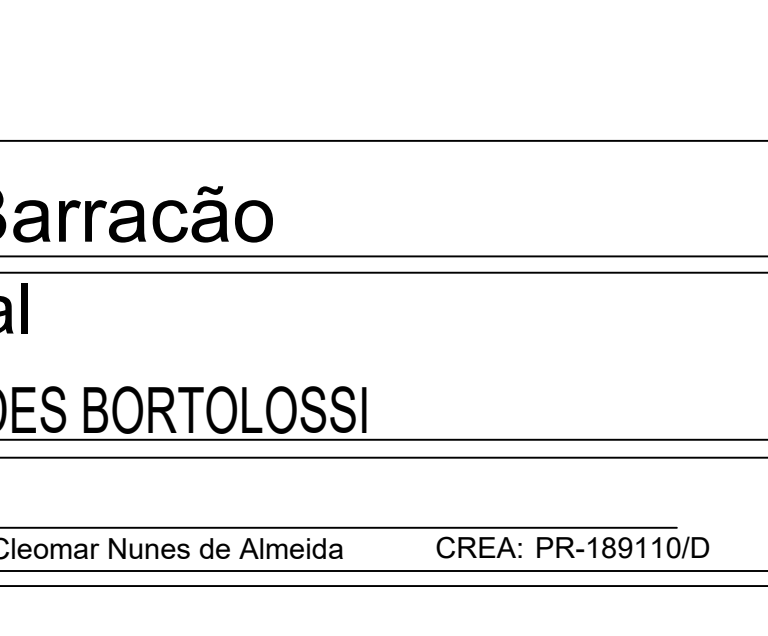
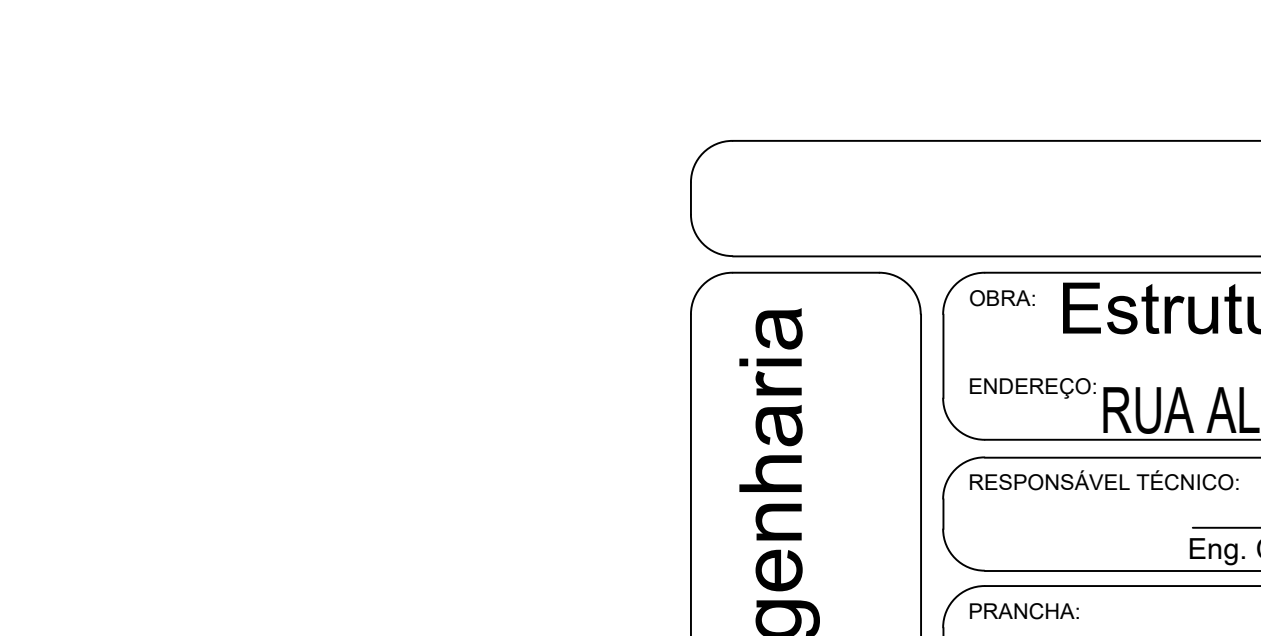
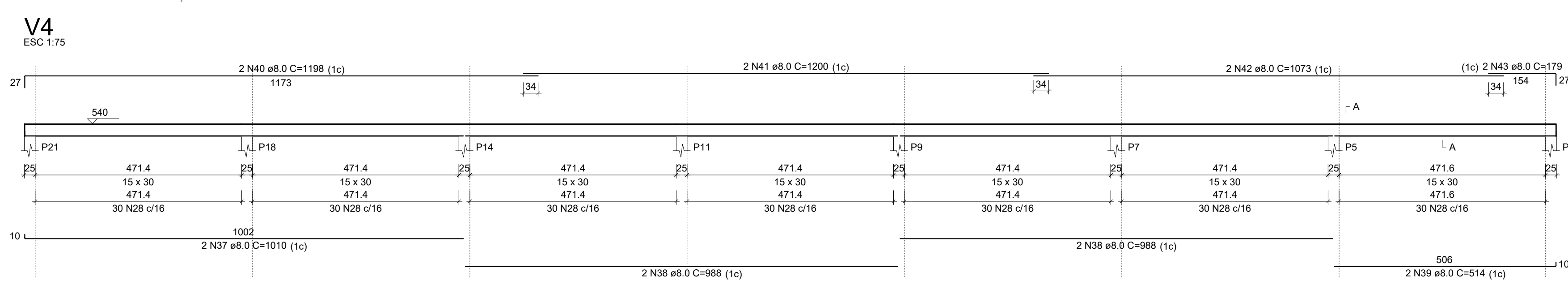
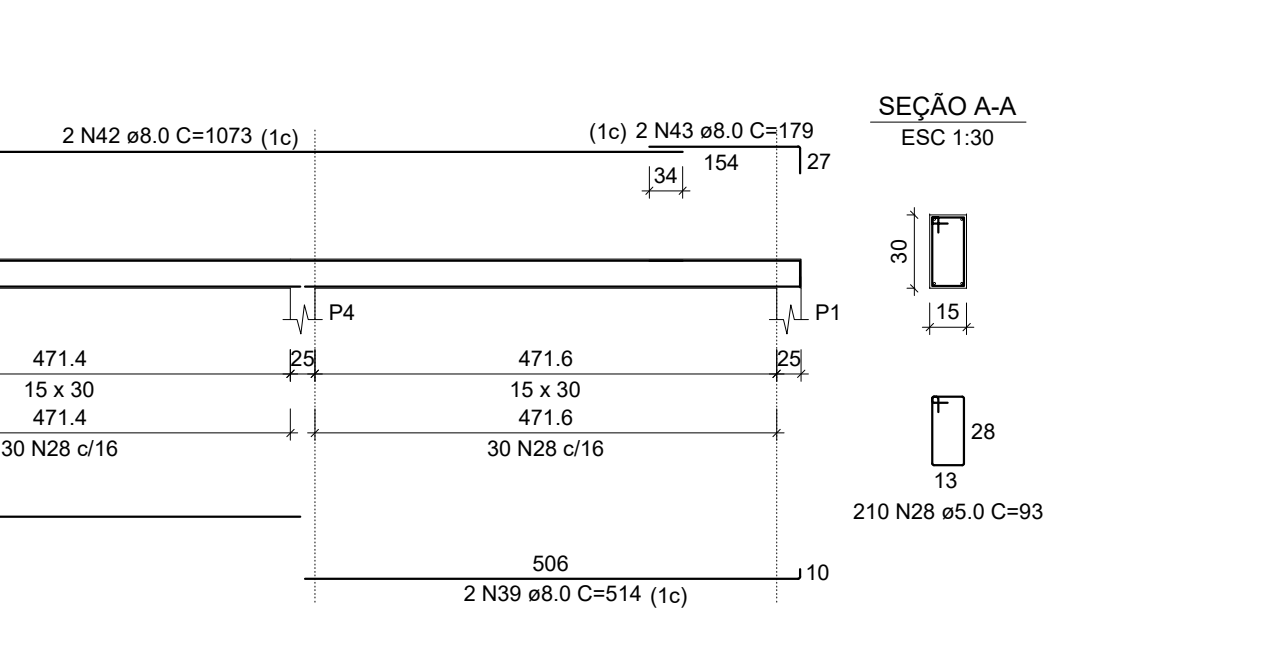
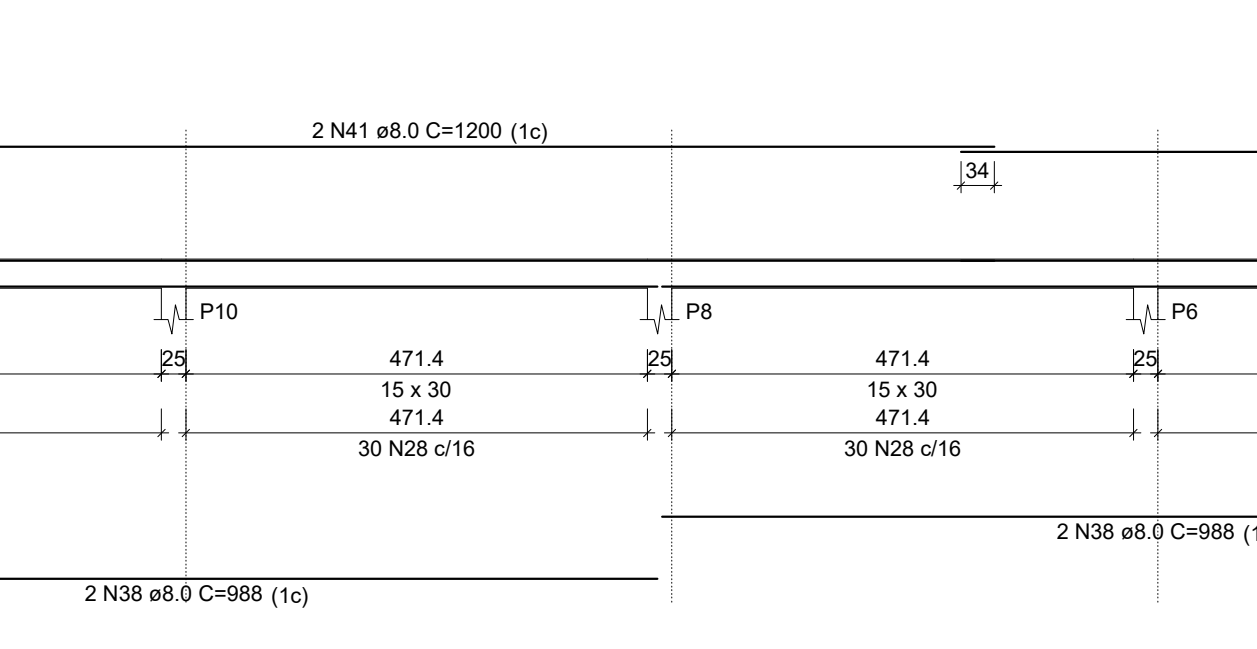
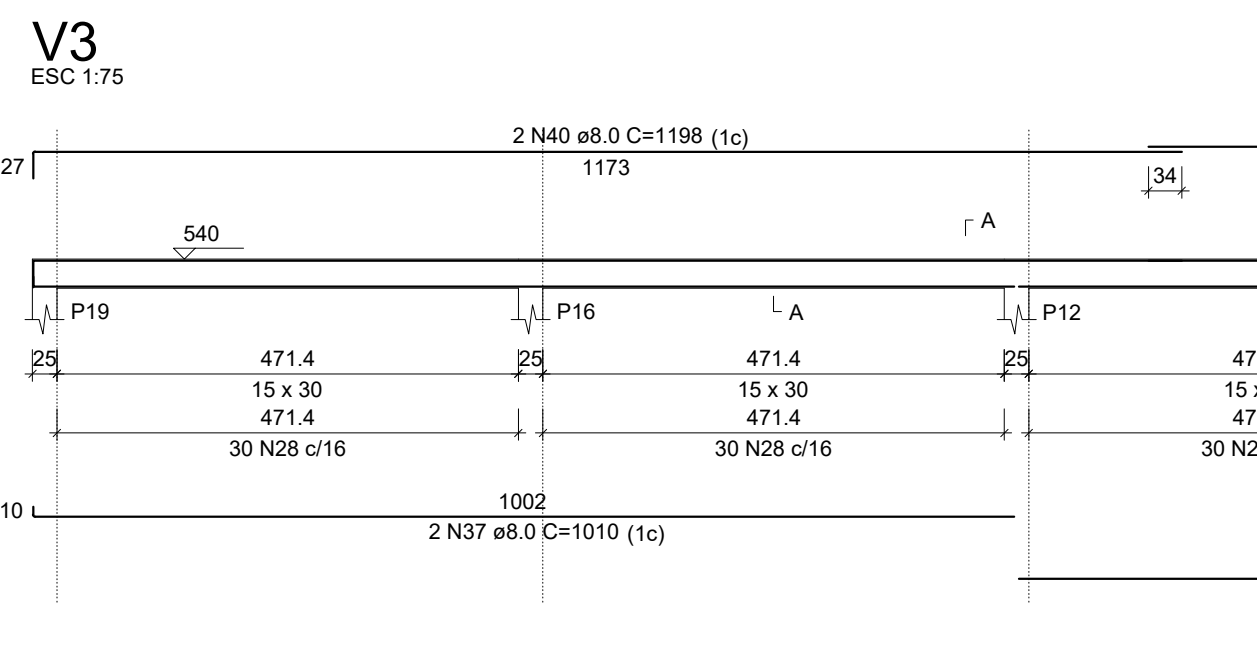
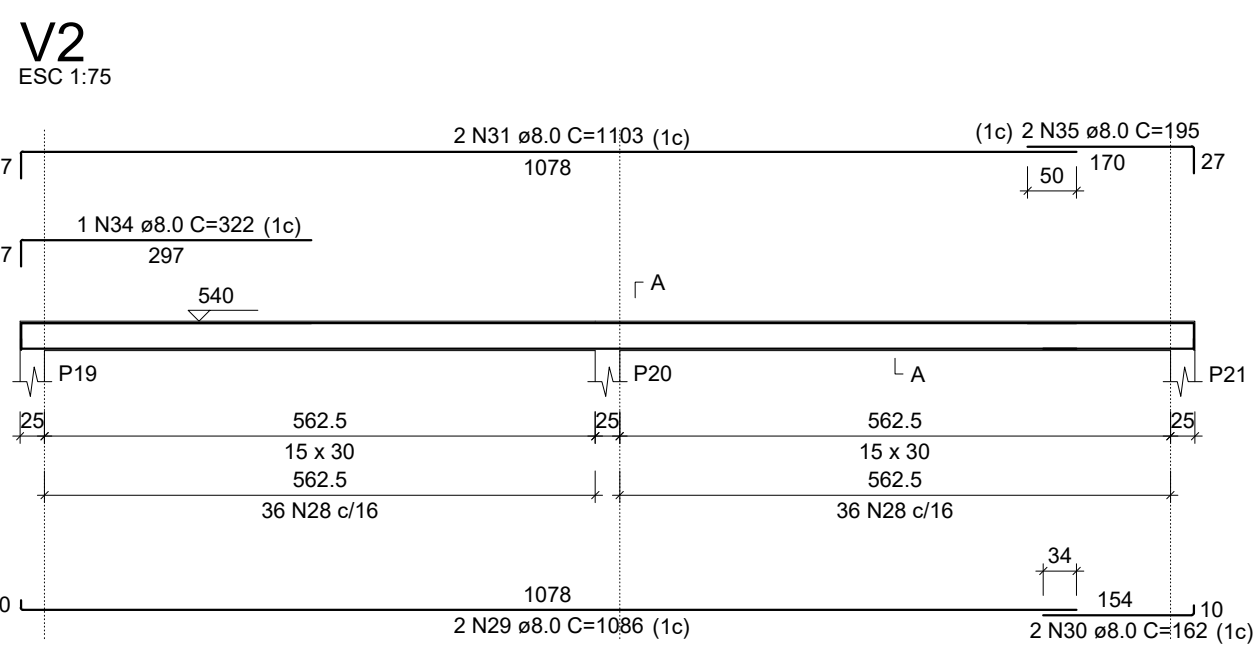
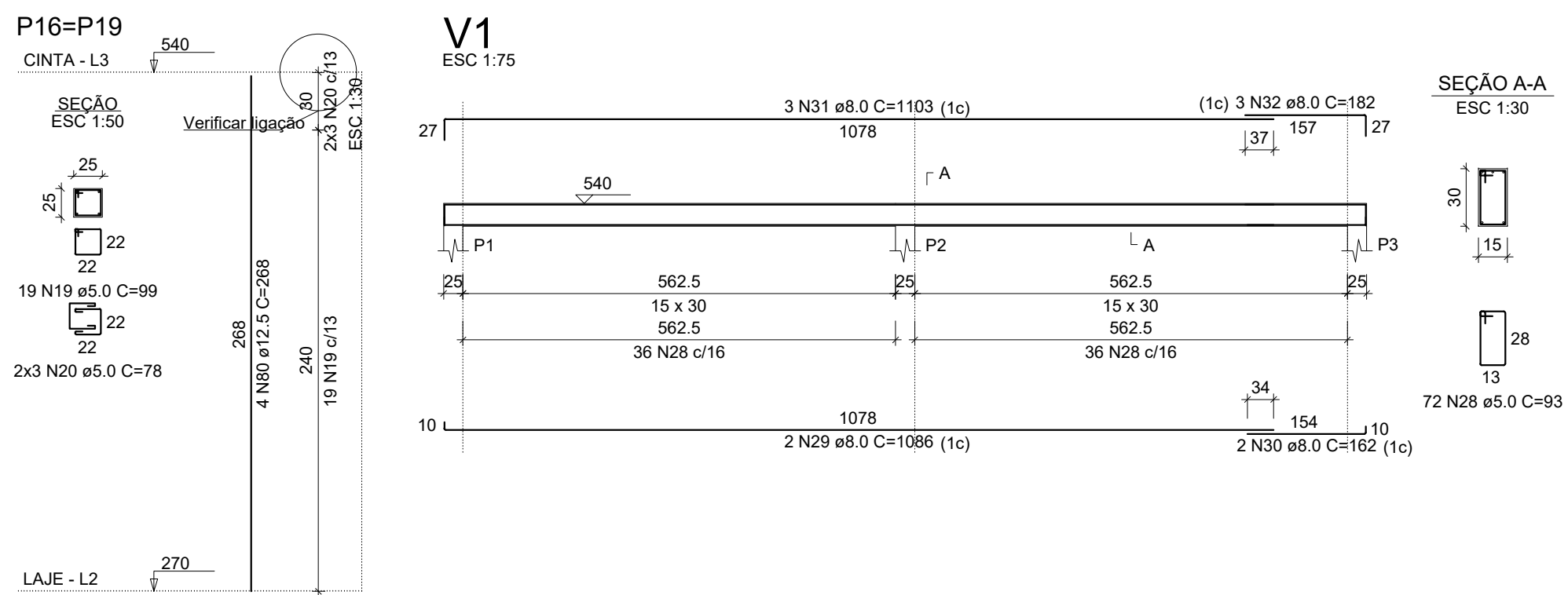
RELAÇÃO DO AÇO						
ACO	N	DIAM (mm)	QUANT	C TOTAL (mm)	C TOTAL (cm)	
CASO	1	5.0	61	105	6405	
	2	5.0	102	102	1020	
	3	5.0	73	59	4307	
	4	5.0	3	166	498	
	5	5.0	3	166	498	
	6	5.0	3	166	498	
	7	5.0	6	175	1050	
	8	5.0	6	175	1050	
	9	5.0	13	235	3055	
	10	5.0	6	175	1050	
	11	5.0	3	333	999	
	12	5.0	4	483	1932	
	13	5.0	24	125	3000	
	14	5.0	3	166	498	
	15	5.0	72	78	5616	
	16	5.0	4	483	1932	
	17	5.0	4	489	1956	
	18	5.0	4	471	1884	
	19	5.0	318	99	31482	
	20	5.0	96	78	7488	
	21	5.0	92	37	3404	
	22	5.0	60	129	7740	
	23	5.0	18	93	1674	
	24	5.0	18	27	486	
	25	5.0	32	89	2845	
	26	5.0	18	27	486	
	27	5.0	18	27	486	
	28	5.0	1325	83	12225	
	29	8.0	6	1086	6516	
	30	8.0	6	1086	6516	
	31	8.0	6	1086	6516	
	32	8.0	3	182	546	
	33	8.0	3	182	546	
	34	8.0	1	322	322	
	35	8.0	1	170	170	
	36	8.0	6	509	3054	
	37	8.0	6	509	3054	
	38	8.0	12	868	11856	
	39	8.0	10	1198	11980	
	40	8.0	10	1198	11980	
	41	8.0	4	170	716	
	42	8.0	4	1073	4292	
	43	8.0	1	170	170	
	44	8.0	1	155	155	
	45	8.0	1	155	155	
	46	8.0	2	543	1086	
	47	8.0	2	306	612	
	48	8.0	2	306	612	
	49	8.0	4	246	984	
	50	8.0	1	281	281	
	51	8.0	4	246	984	
	52	8.0	2	1003	2006	
	53	8.0	4	251	1004	
	54	8.0	2	528	1056	
	55	8.0	4	226	904	
	56	8.0	8	125	1000	
	57	8.0	1	165	165	
	58	8.0	1	720	720	
	59	8.0	1	1076	1076	
	60	8.0	4	911	3644	
	61	8.0	4	935	3740	
	62	8.0	2	560	1120	
	63	8.0	2	1032	2064	
	64	8.0	2	1032	2064	
	65	8.0	2	1066	2132	
	66	8.0	2	1066	2132	
	67	8.0	1	239	239	
	68	8.0	2	498	996	
	69	8.0	2	1032	2064	
	70	8.0	2	1032	2064	
	71	8.0	2	192	384	
	72	10.0	76	298	22648	
	73	10.0	2	62	124	
	74	10.0	2	1032	2064	
	75	10.0	2	513	1026	
	76	10.0	2	225	450	
	77	10.0	2	400	800	
	78	10.0	2	1090	2180	
	79	12.5	1	569	569	
	80	12.5	14	255	3770	
	81	12.5	2	1111	2222	
	82	12.5	2	633	1266	
	83	12.5	1	281	281	
	84	12.5	2	633	1266	
	85	12.5	2	507	1014	
	86	12.5	2	645	1290	
	87	12.5	2	287	574	
	88	12.5	1	260	260	
	89	12.5	1	264	264	
	90	12.5	3	250	750	
	91	12.5	2	1110	2220	
	92	12.5	2	227	454	
	93	12.5	2	567	1134	
	94	16.0	2	288	576	
	95	16.0	2	563	1126	

RESUMO DO AÇO						
ACO	DIAM (mm)	C TOTAL (mm)	QUANT + 10%	PESO + 10%		
CASO	8.0	8519	88	413.1		
	10.0	261	24	117		
	12.5	162.7	15	172.5		
	16.0	27.3	9	47.6		
CASO	5.0	2194.2	202	372		

PESO TOTAL (kg)
CASO 810.1
CASO 372

Volume de concreto (C30) = 16.15 m³
Área de forma = 224.60 m²

Armação negativa das lajes do pavimento laje



ANC Engenharia

OBR: Estrutural

ENDERECO: RUA ALCIDES BORTOLOSSI

RESPONSÁVEL TECNICO: Eng. Civil Cleomar Nunes de Almeida CREA: PR-189110/D

PRANCH: Pilar/Vigas 270/vigas 540

PAYMENTO: 1

PROPRIETARIO: Pref. Mun. Itapejara D'Oeste

DESENHO: Eng. civil Cleomar Nunes de Almeida Crea PR 189110/D

UNIDADE: 420,00m²

CONJUNTO: 1

FOLHA: 5/5

DATA: 17/12/2021