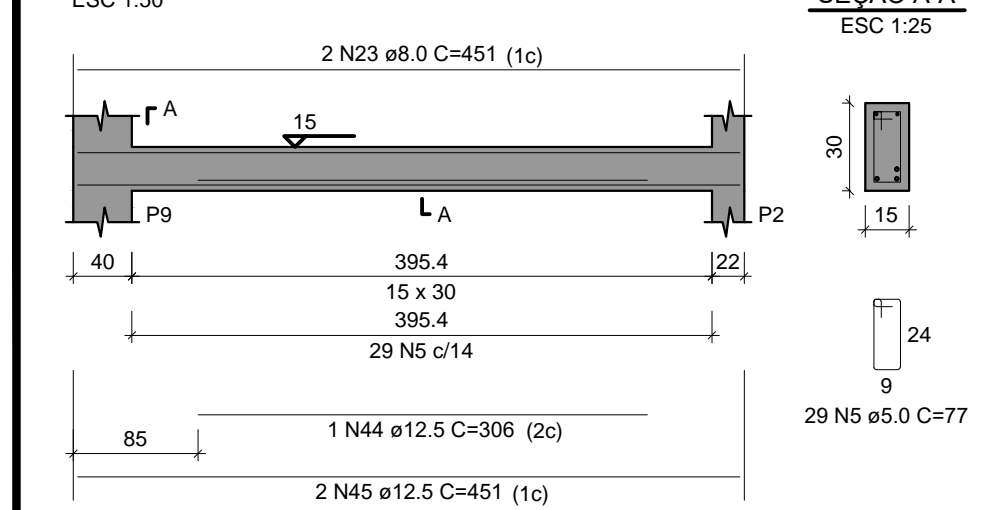
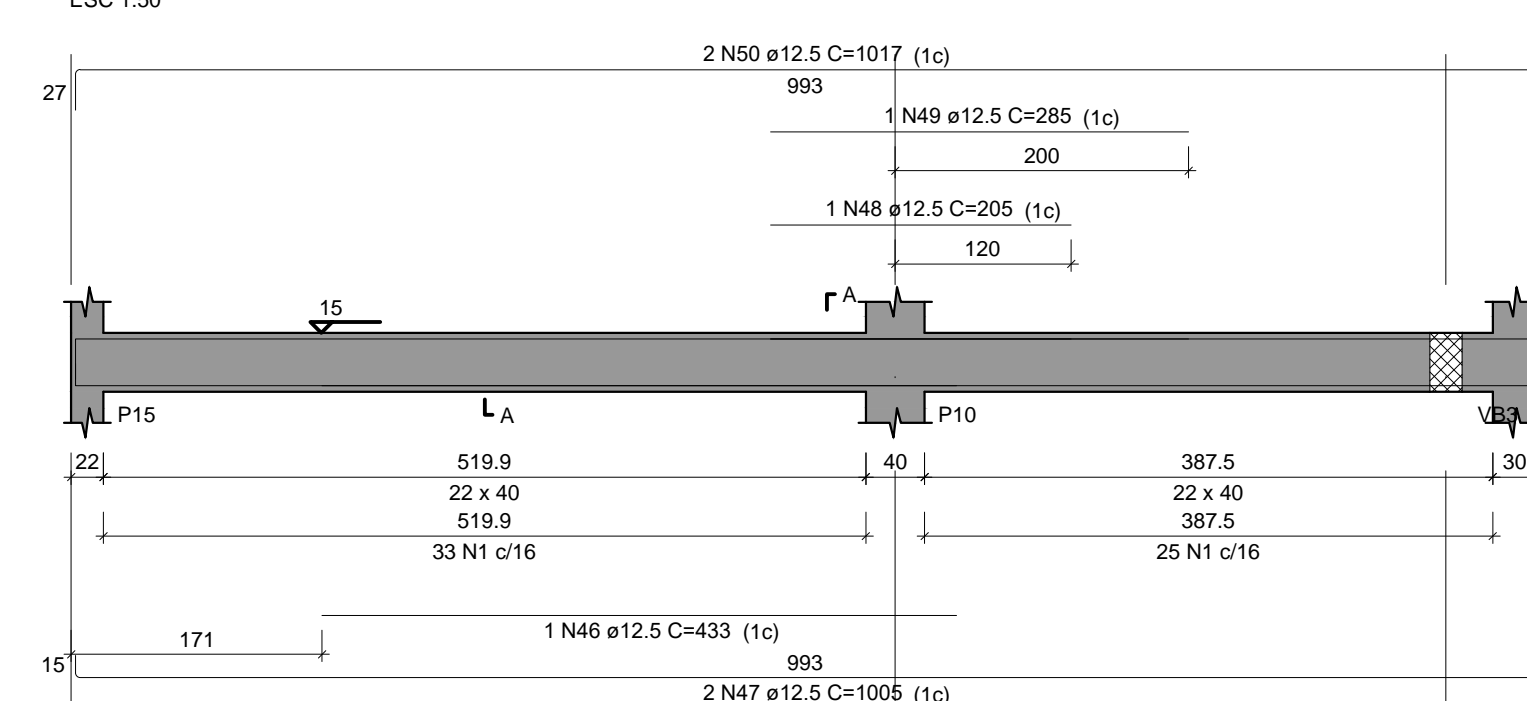


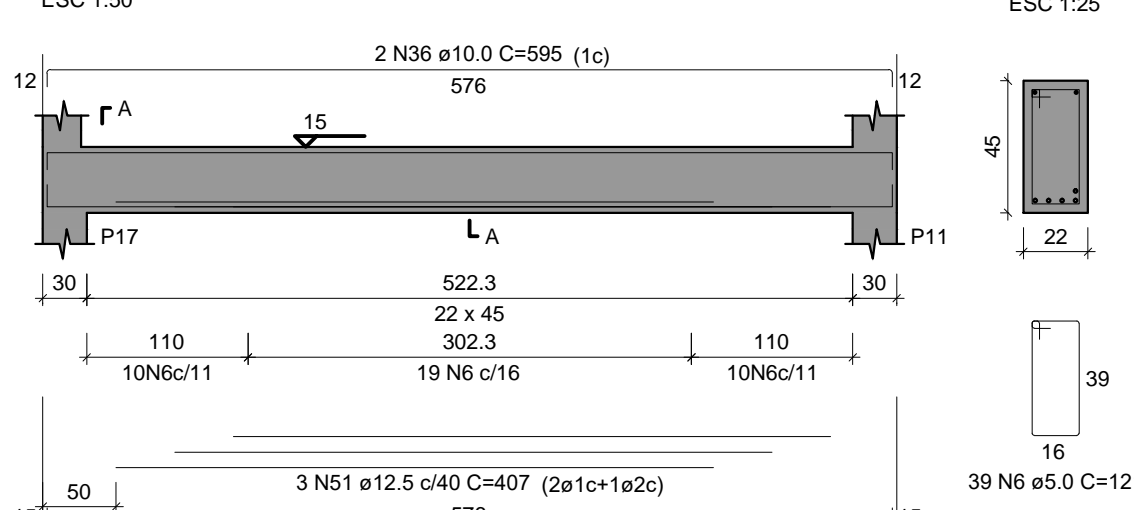
VB9
ESC 1:50



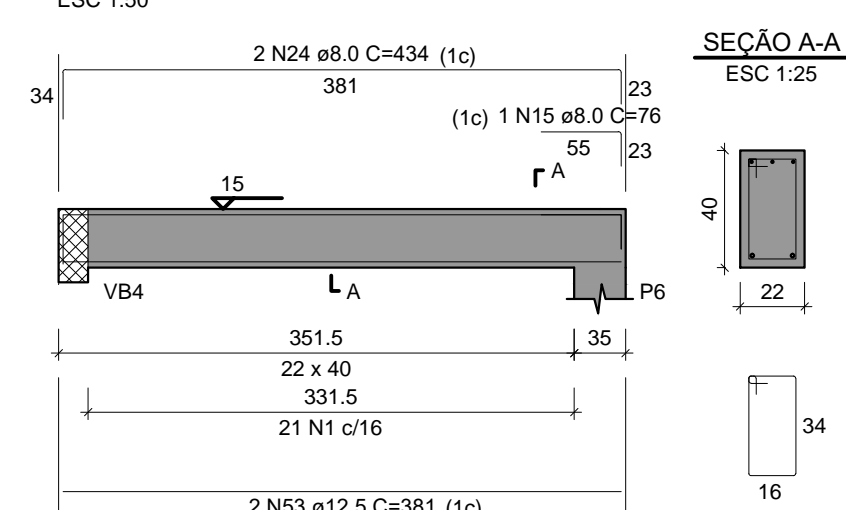
VB10
ESC 1:50



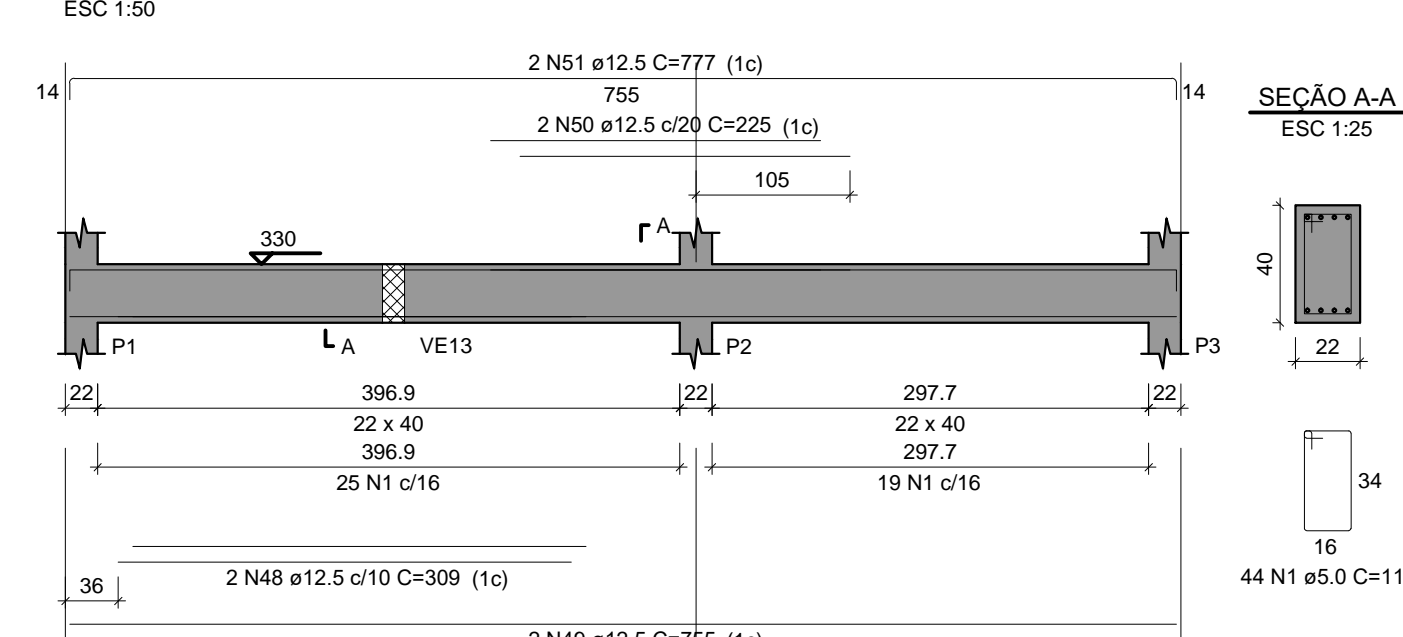
VB11
ESC 1:50



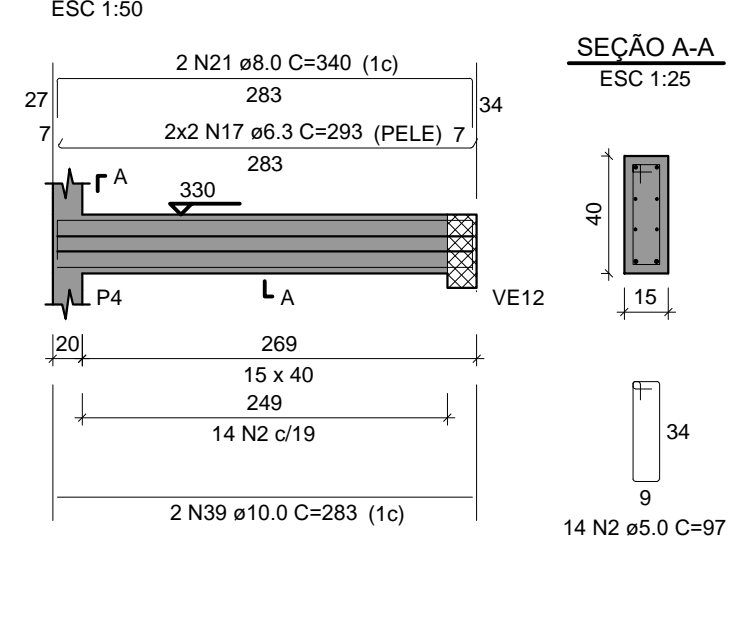
VB12
ESC 1:50



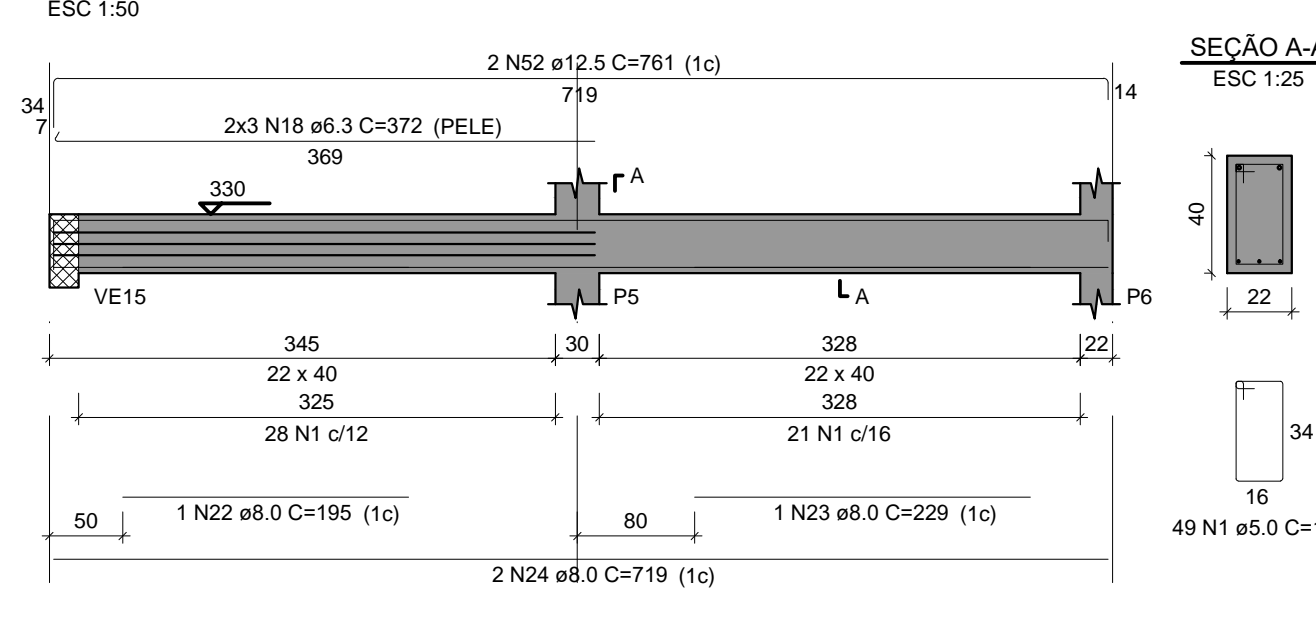
VE1
ESC 1:50



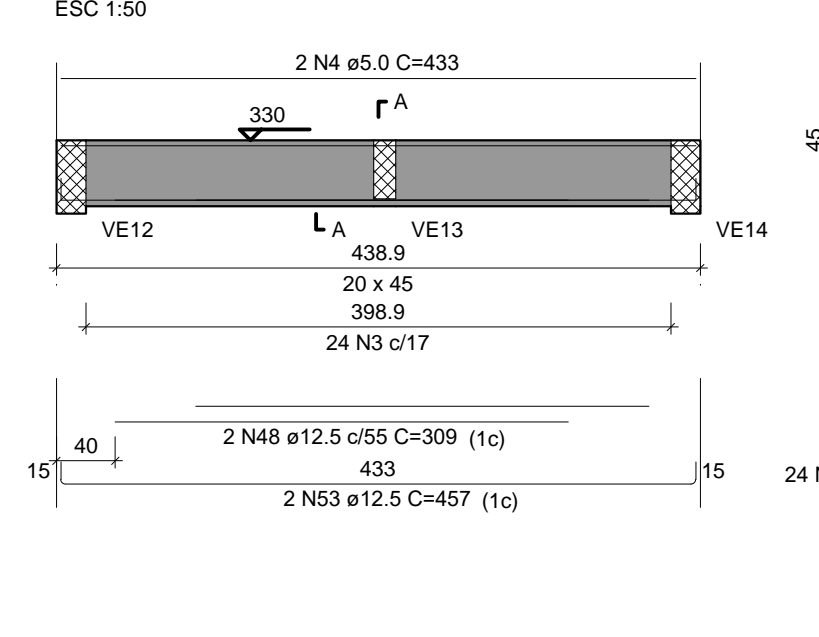
VE2
ESC 1:50



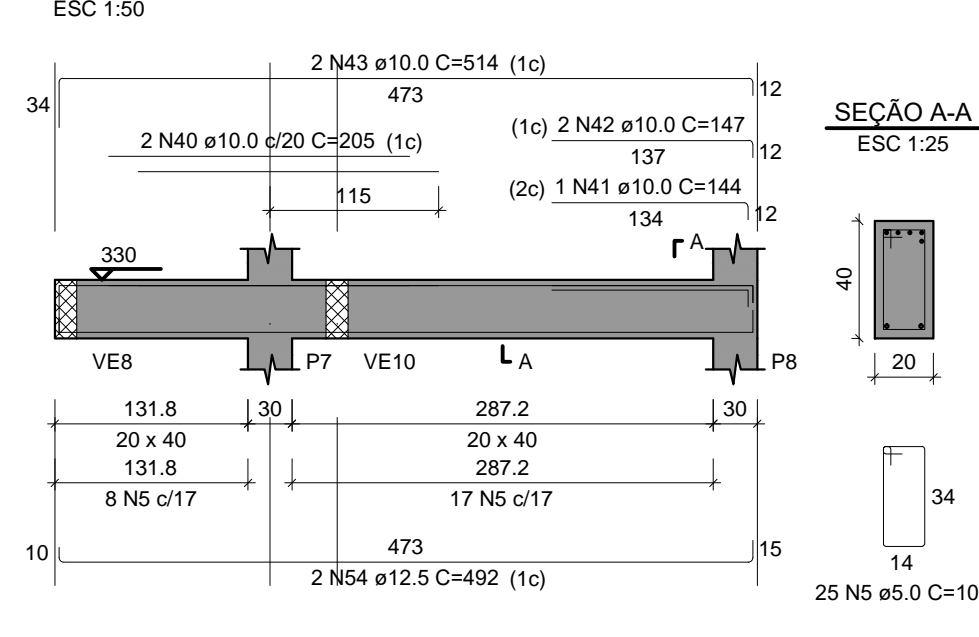
VE3
ESC 1:50



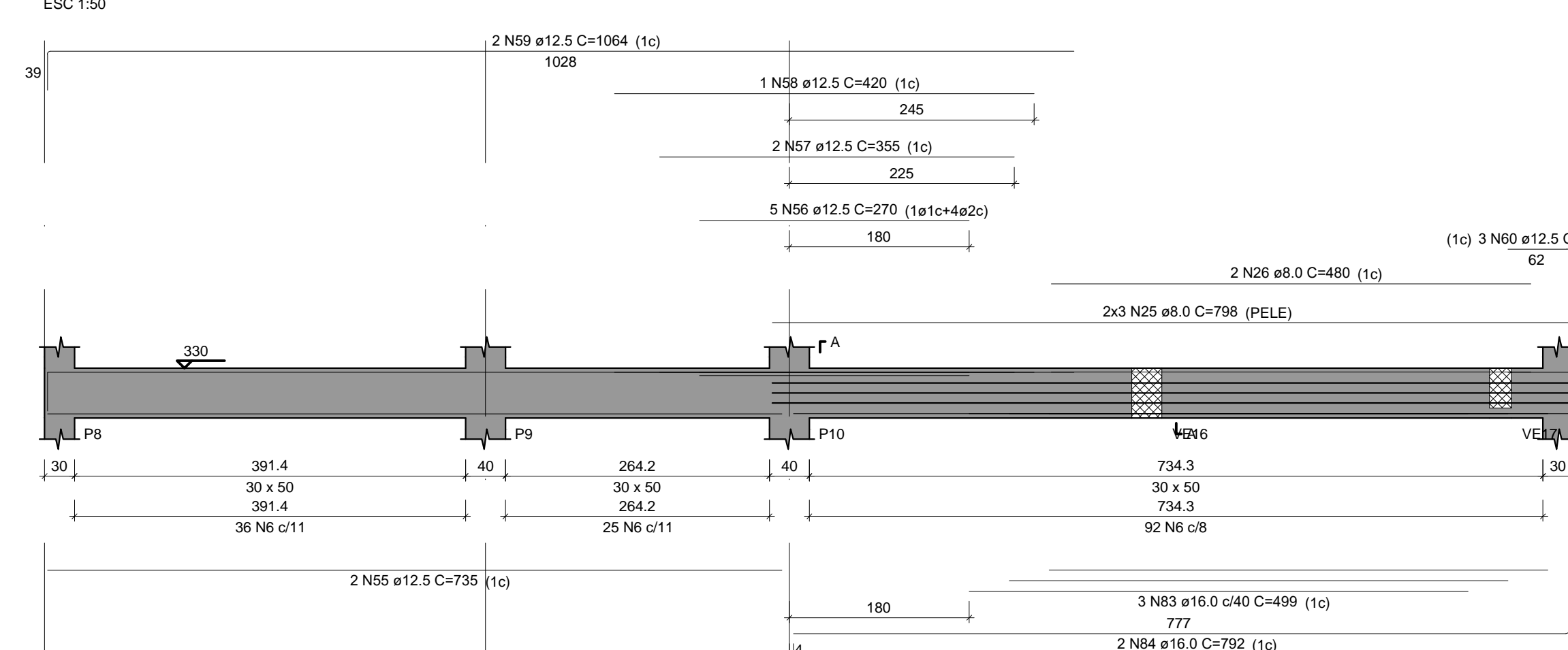
VE4
ESC 1:50



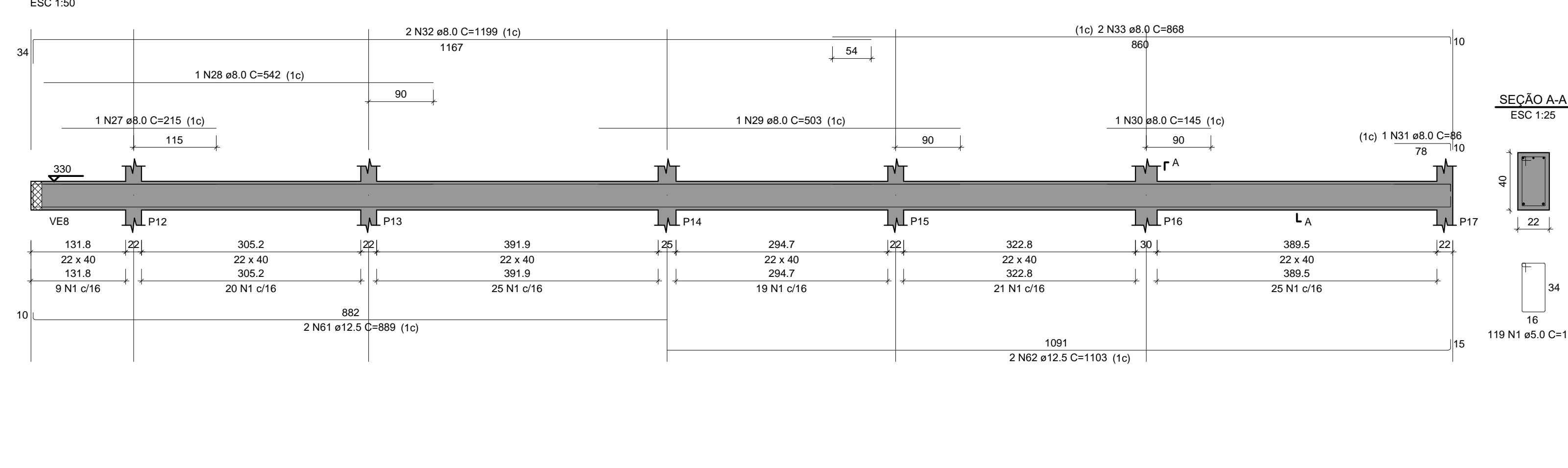
VE5
ESC 1:50



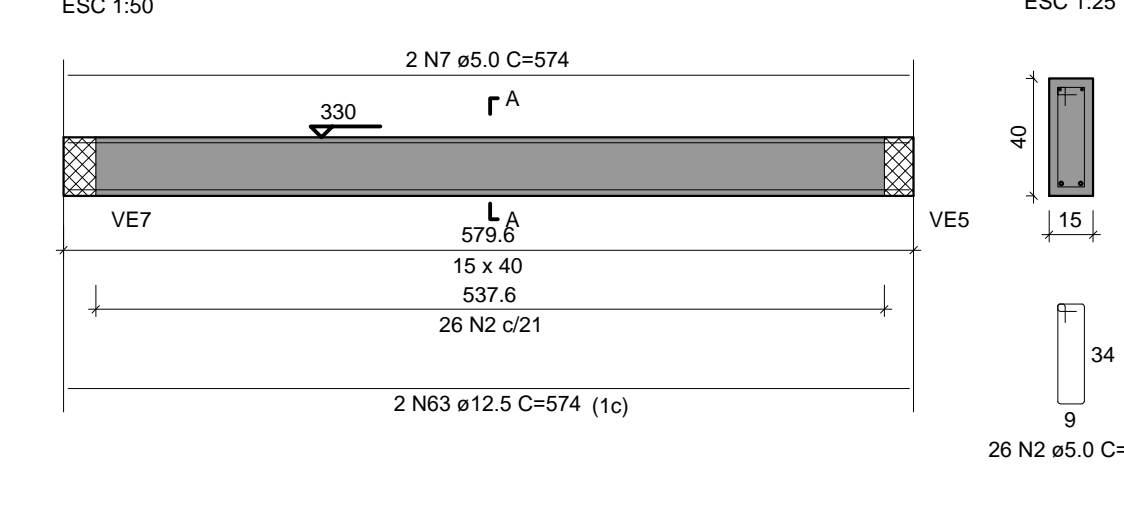
VE6
ESC 1:50



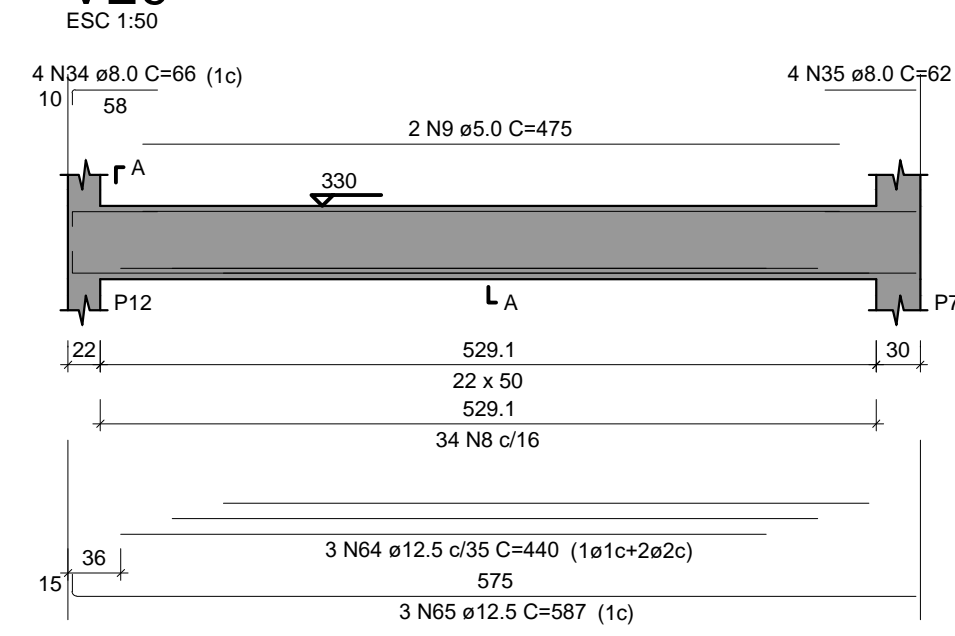
VE7
ESC 1:50



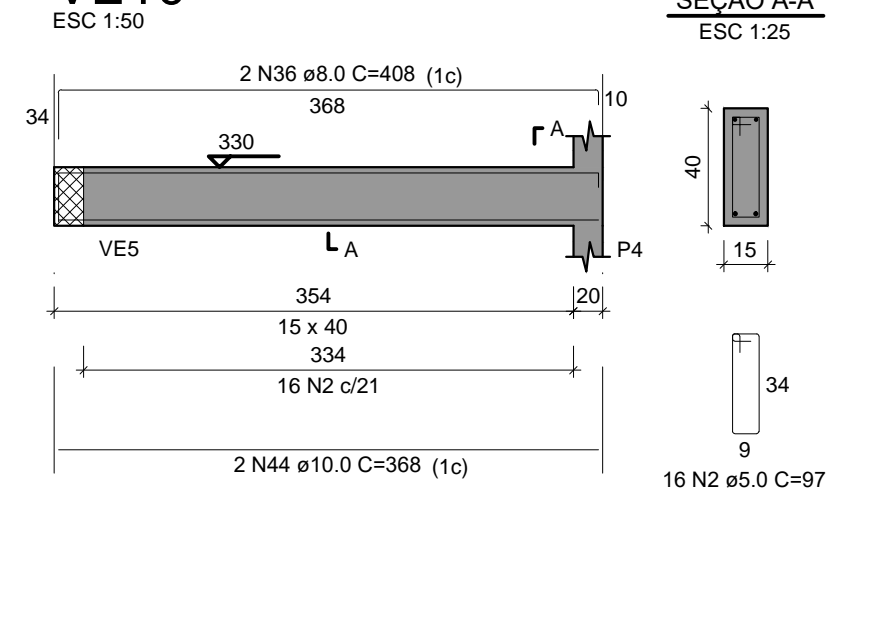
VE8
ESC 1:50



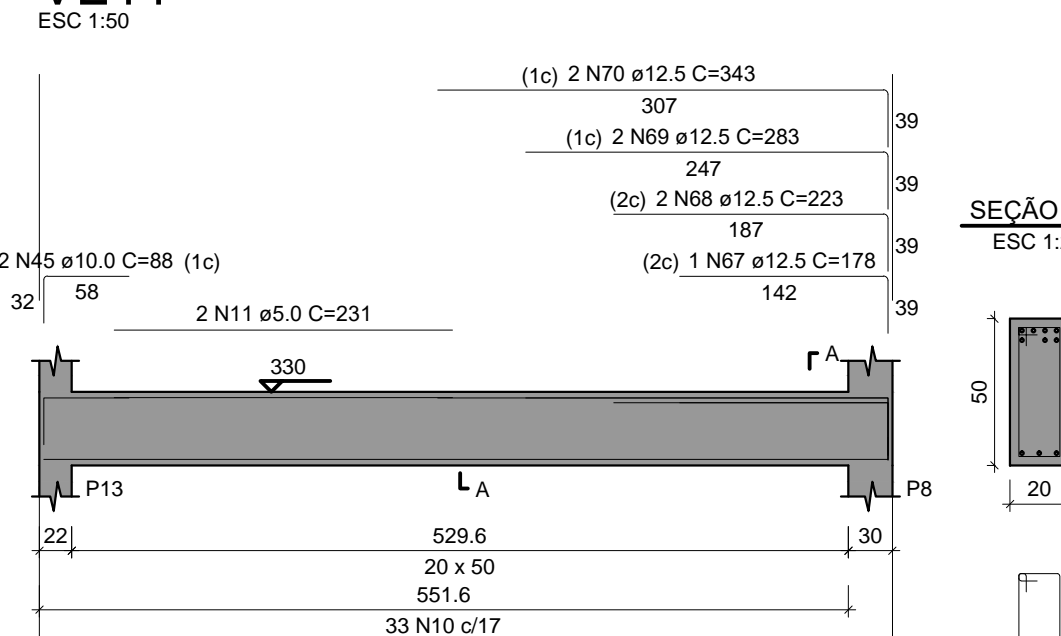
VE9
ESC 1:50



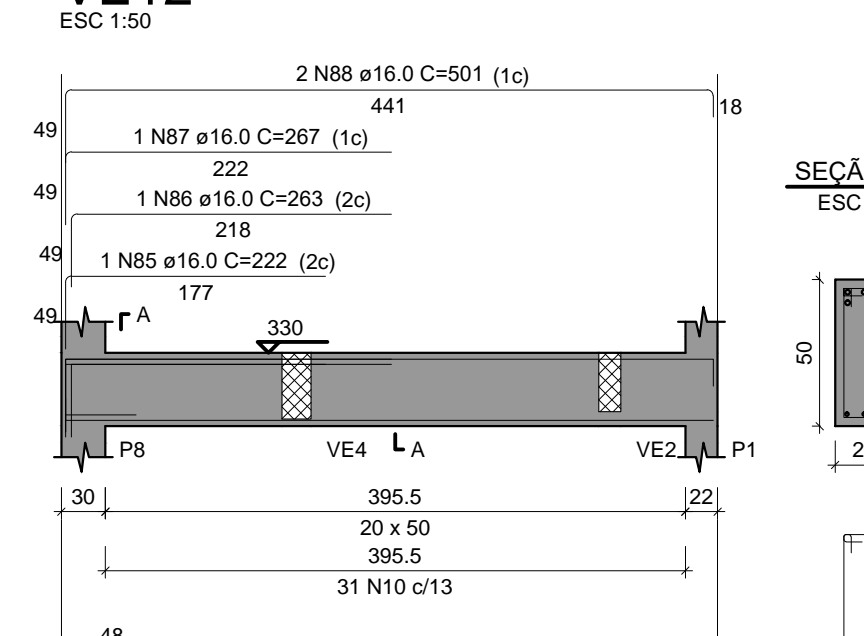
VE10
ESC 1:50



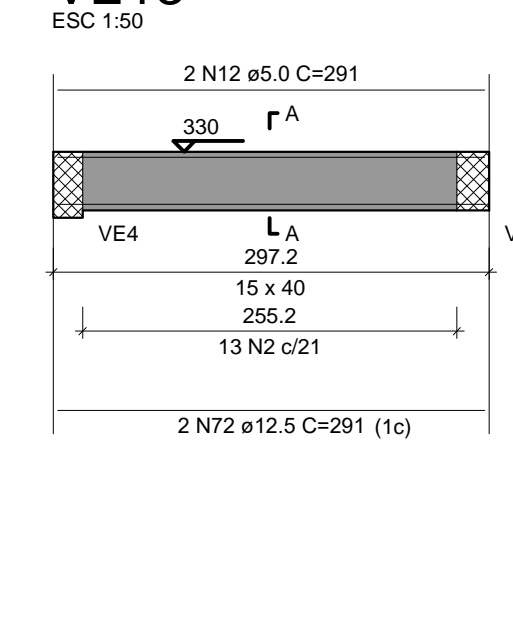
VE11
ESC 1:50



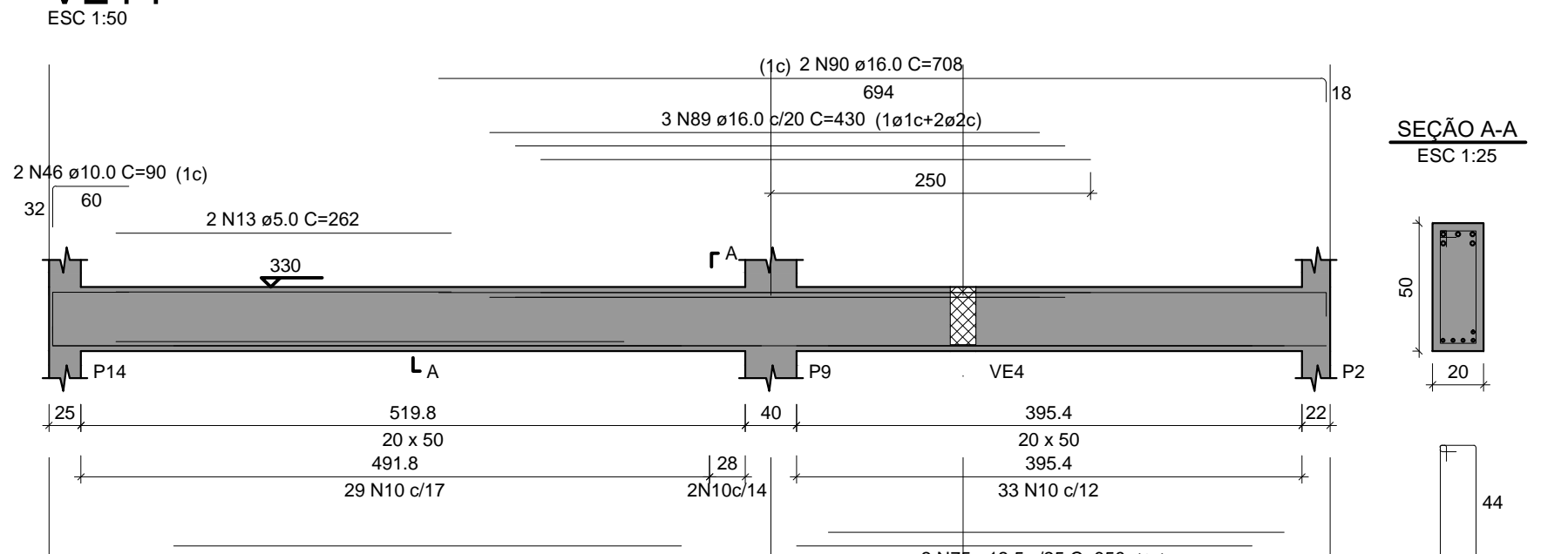
VE12
ESC 1:50



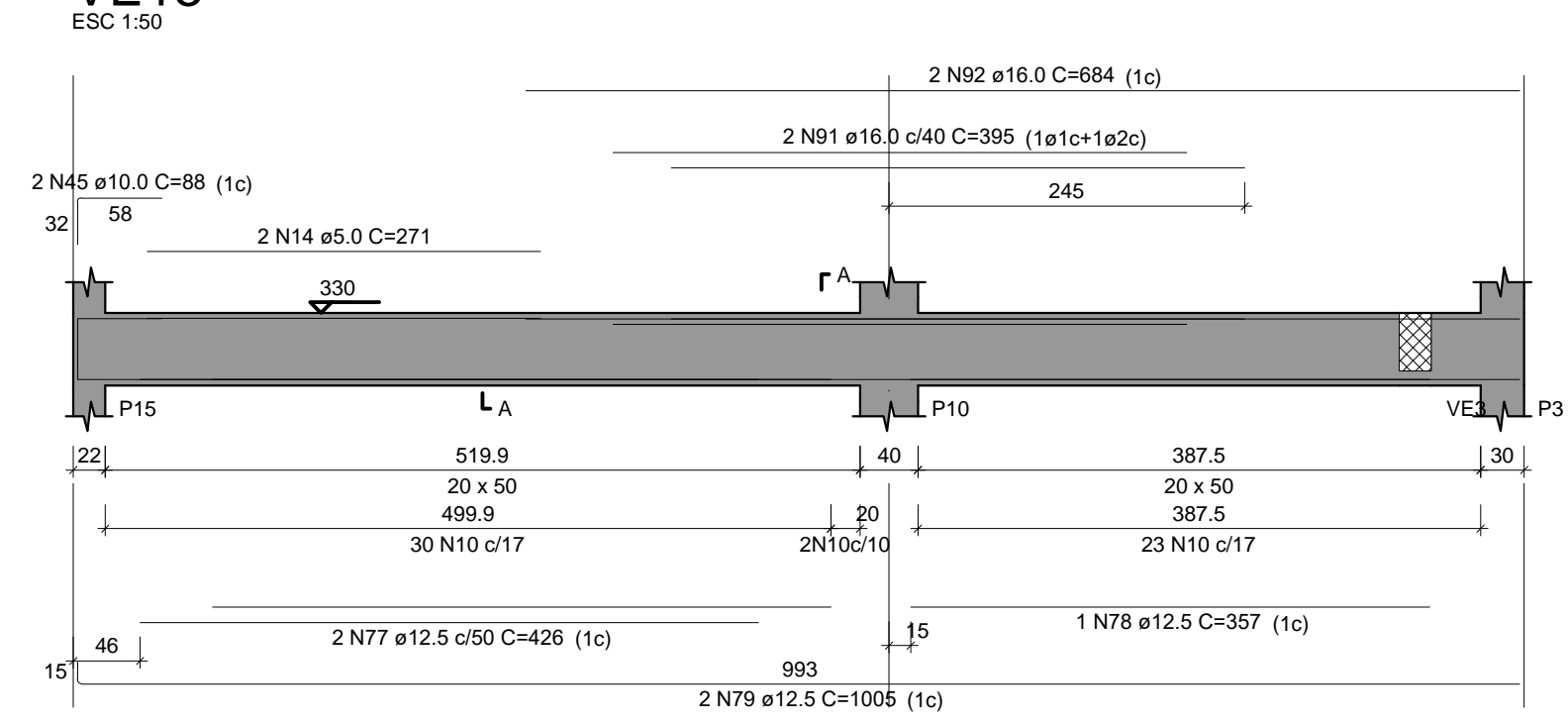
VE13
ESC 1:50



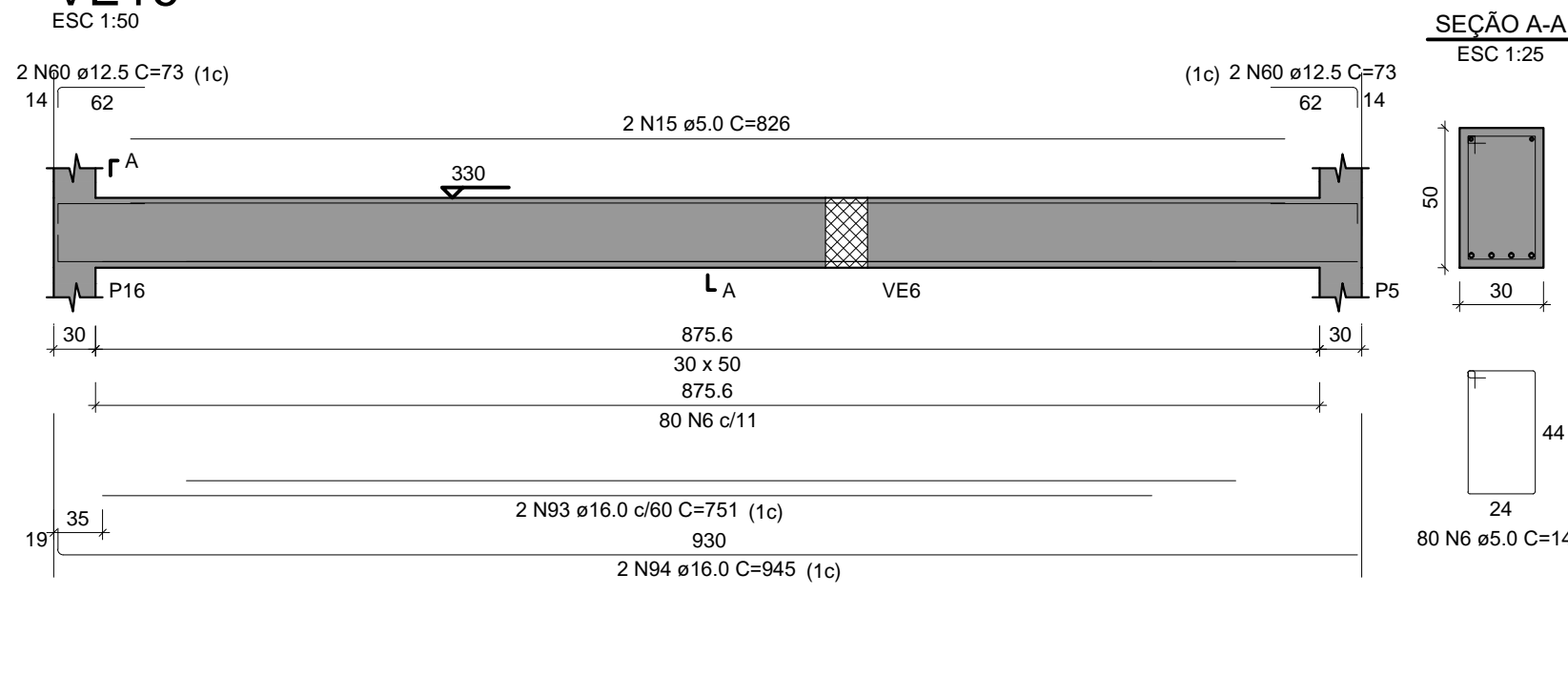
VE14
ESC 1:50



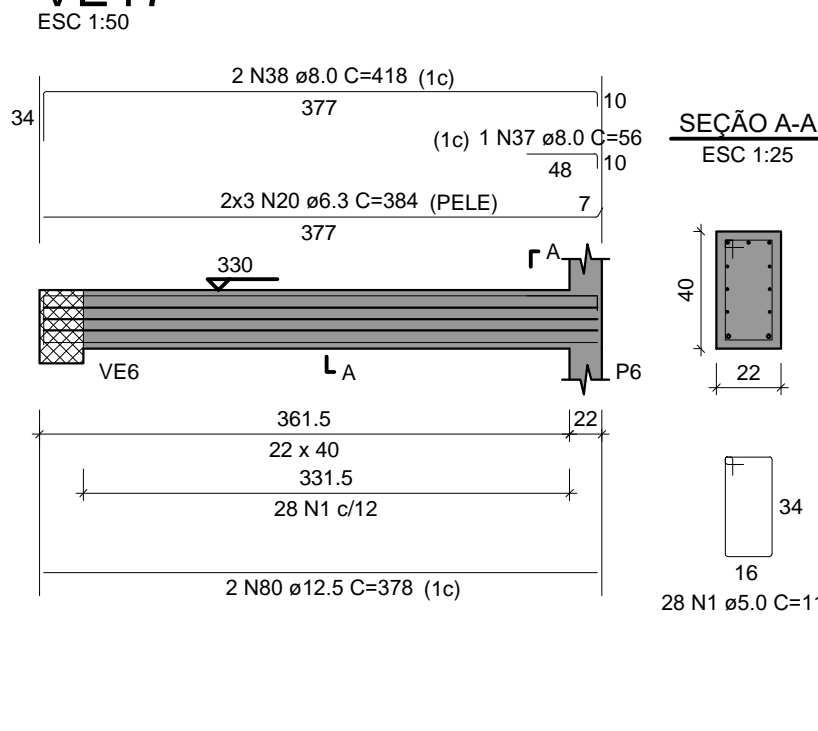
VE15
ESC 1:50



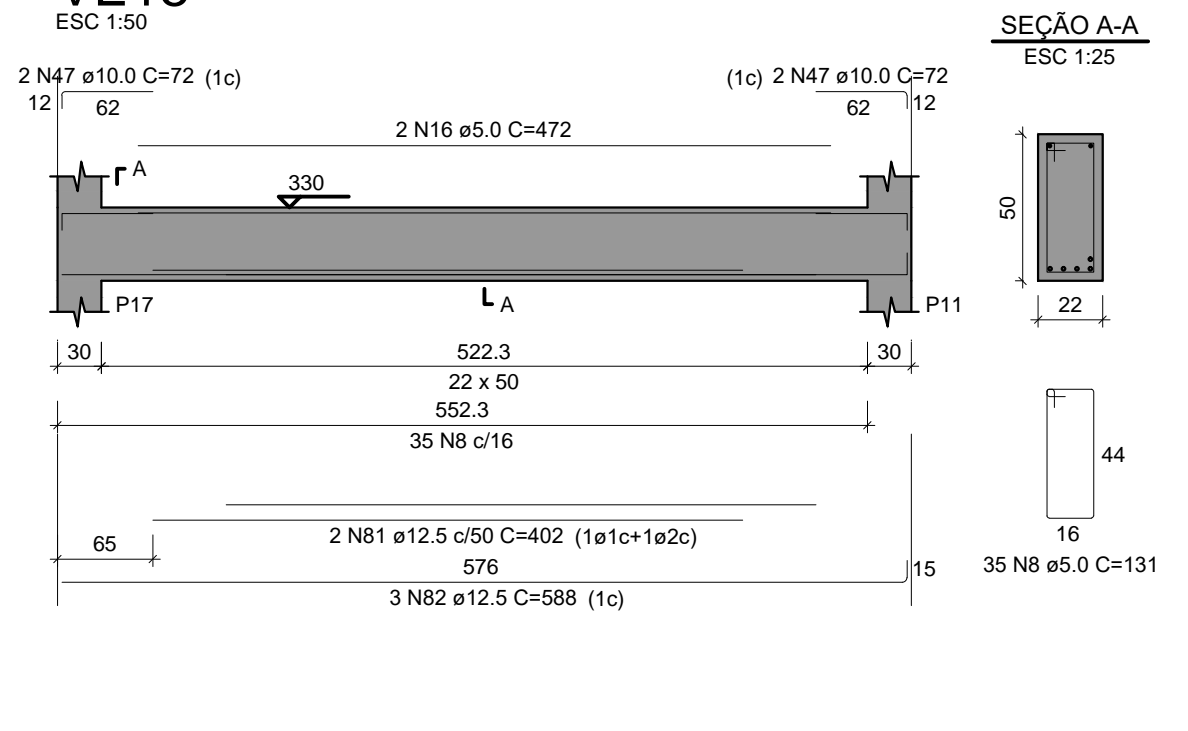
VE16
ESC 1:50



VE17
ESC 1:50



VE18
ESC 1:50



RELAÇÃO DO AÇO						RELAÇÃO DO AÇO					
ACO	N	DIAM (mm)	QUANT (cm)	C.UNIT (cm)	C.TOTAL (cm)	ACO	N	DIAM (mm)	QUANT (cm)	C.UNIT (cm)	C.TOTAL (cm)
V81 V84 V85 V87 V89	1	5.0	308	111	34188	CASO	1	5.0	240	111	26640
	2	5.0	2	234	468		2	5.0	69	97	6693
	3	5.0	101	127	12827		3	5.0	24	117	2808
	4	5.0	116	91	10596		4	5.0	2	433	866
	5	5.0	29	77	2233		5	5.0	25	107	2675
	6	5.0	39	121	4719		6	5.0	23	147	34251
	7	6.3	6	372	2232		7	5.0	2	574	1148
	8	6.3	6	447	2682		8	5.0	69	131	9038
	9	8.0	2	289	538		9	5.0	2	475	950
	10	8.0	2	185	350		10	5.0	153	127	23541
CASO	11	8.0	2	750	1510	CASO	11	5.0	2	231	462
	12	8.0	5	58	290		12	5.0	2	291	582
	13	8.0	2	340	680		13	5.0	2	262	524
	14	8.0	2	170	340		14	5.0	2	271	542
	15	8.0	2	76	152		15	5.0	2	626	1252
	16	8.0	2	785	1570		16	8.0	2	472	944
	17	8.0	2	514	1028		17	6.3	4	293	1172
	18	8.0	2	1198	2396		18	6.3	6	372	2232
	19	8.0	2	712	1424		19	8.0	2	240	480
	20	8.0	1	52	104		20	8.0	1	542	1084
CASO	21	8.0	2	453	906	CASO	21	8.0	2	245	490
	22	8.0	2	72	144		22	8.0	2	195	390
	23	8.0	2	451	902		23	8.0	2	229	458
	24	8.0	2	424	848		24	8.0	2	719	1438
	25	10.0	2	338	676		25	8.0	6	738	1476
	26	10.0	2	1093	2186		26	8.0	2	480	960
	27	10.0	2	815	1630		27	8.0	1	503	1006
	28	10.0	1	160	320		28	8.0	1	542	1084
	29	10.0	2	1190	2380		29	8.0	1	56	112
	30	10.0	2	202	404		30	8.0	1	145	290
CASO	31	10.0	2	262	524	CASO	31	8.0	1	85	170
	32	10.0	2	1102	2204		32	8.0	2	1199	2398
	33	10.0	2	882	1764		33	8.0	4	66	132
	34	10.0	2	441	882		34	8.0	4	66	132
	35	10.0	2	204	408		35	8.0	2	498	996
	36	10.0	2	595	1190		36	8.0	2	418	836
	37	12.5	2	504	1008		37	8.0	1	56	112
	38	12.5	2	732	1464		38	8.0	2	144	288
	39	10.0	2	578	1156		39	10.0	2	144	288
	40	12.5	1	220	440		40	10.0	2	205	410
CASO	41	12.5	2	381	762	CASO	41	10.0	2	144	288
	42	12.5	2	276	552		42	10.0	2	147	294
	43	12.5	2	963	1926		43	10.0	2	368	736
	44	12.5	2	433	866		44	10.0	2	88	176
	45	12.5	2	451	902		45	10.0	2	90	180
	46	12.5	2	305	610		46	10.0	4	72	144
	47	12.5	2	1005	2010		47	12.5	2	30	60
	48	12.5	1	285	570		48	12.5	4	309	618
	49	12.5	1	2034	4068		49	12.5	2	755	1510
	50	12.5	3	407	1221		50	12.5	2	225	450
CASO	51	12.5	2	600	1200	CASO	51	12.5	2	771	1542
	52	12.5	2	381	762		52	12.5	2	701	1402
	53	12.5	2	381	762		53	12.5	2	487	974
	54	12.5	2	775	1550		54	12.5	2	402	804
	55	12.5	2	735	1470		55	12.5	2	270	540
	56	12.5	2	270	540		56	12.5	2	355	710
	57	12.5	2	420	840		57	12.5	2	355	710
	58	12.5	2	1064	2128		58	12.5	2	1064	2128
	59	12.5	2	889	1778		59	12.5	2	889	1778
	60	12.5	2	1103	2206		60	12.5	2	1103	2206
CASO	61	12.5	2	974	1948	CASO	61	12.5	2	974	1948
	62	12.5	3	440	1320		62	12.5	3	440	1320
	63	12.5	3	587	1761		63	12.5	3	587	1761
	64	12.5	3	587	1761		64	12.5	3	587	1761
	65	12.5	3	587	1761		65	12.5	3	587	1761
	66	12.5	3	587	1761		66	12.5	3	587	1761
	67	12.5	3	587	1761		67	12.5	3	587	1761
	68	12.5	3	587	1761		68	12.5	3	587	1761

RESUMO DO AÇO			
ACO	DIAM (mm)	C.TOTAL (cm)	PESO + 10% (kg)
CASO	8.0	3811.7	97.2
	10.0	131.7	32.2
	12.5	162.5	41.2
PESO TOTAL (kg)		5.0	649.9
		10.0	110.2
RESUMO DO CONCRETO			
ACO		381.1	97.2
CASO		110.2	
Volume de concreto (C30) = 7.81 m³			
Área de forma = 90.64 m²			