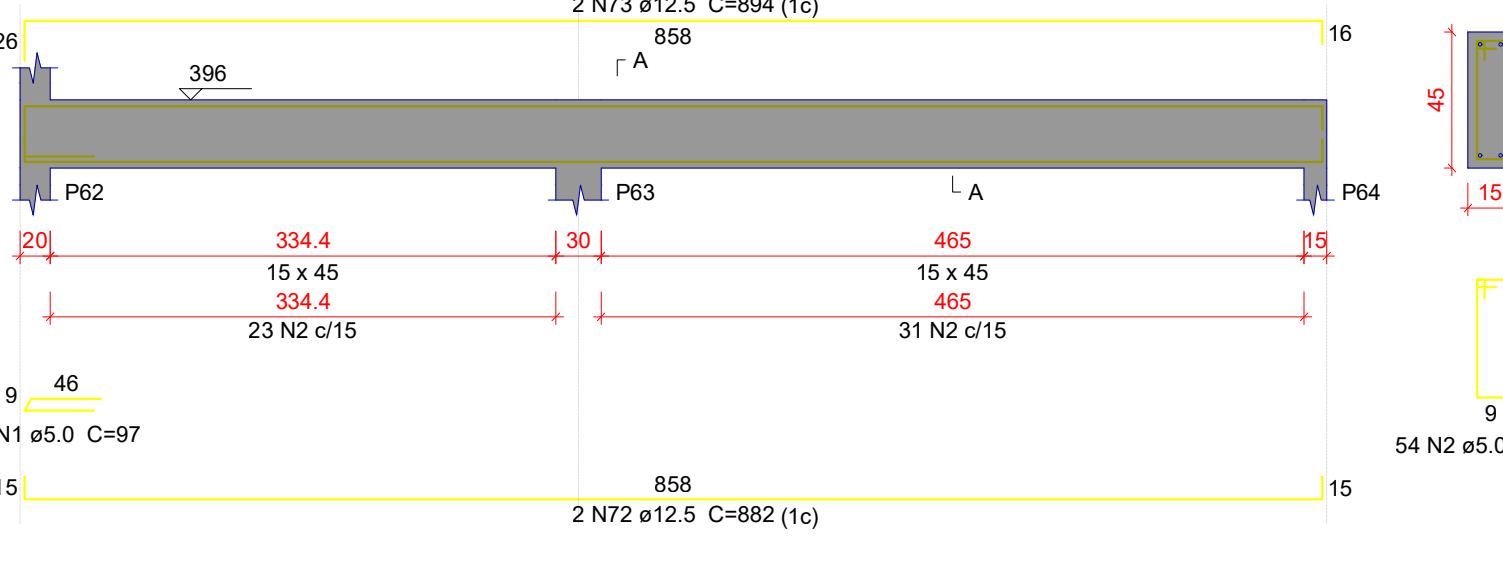


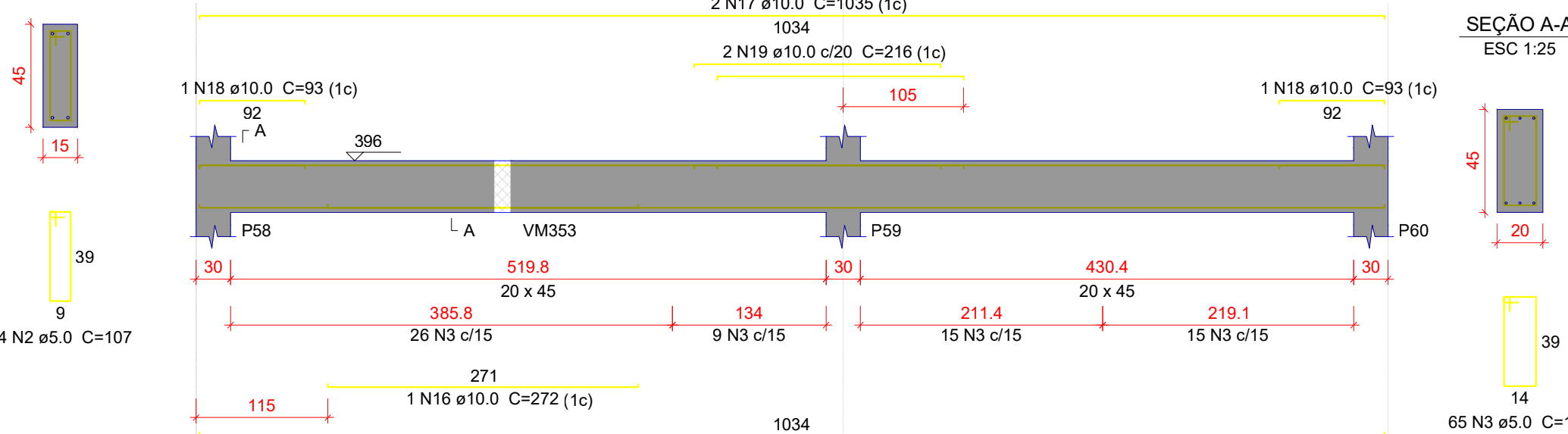
VM226

ESC 1:50



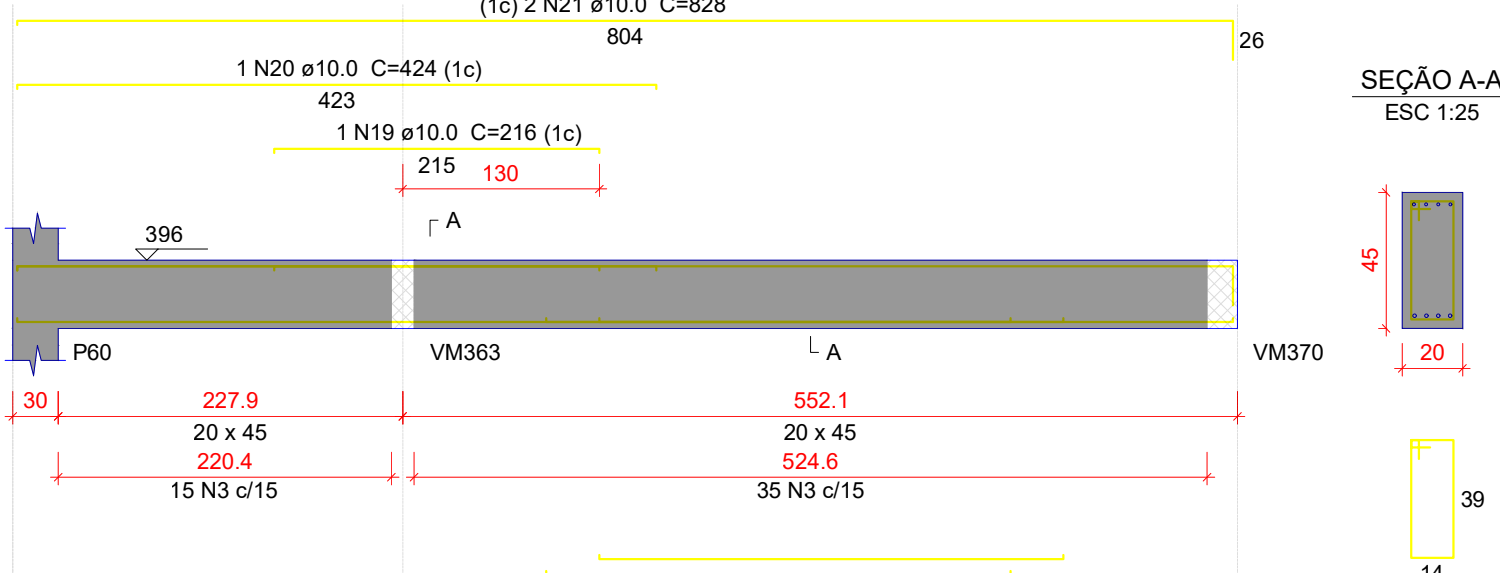
VM227

ESC 1:50



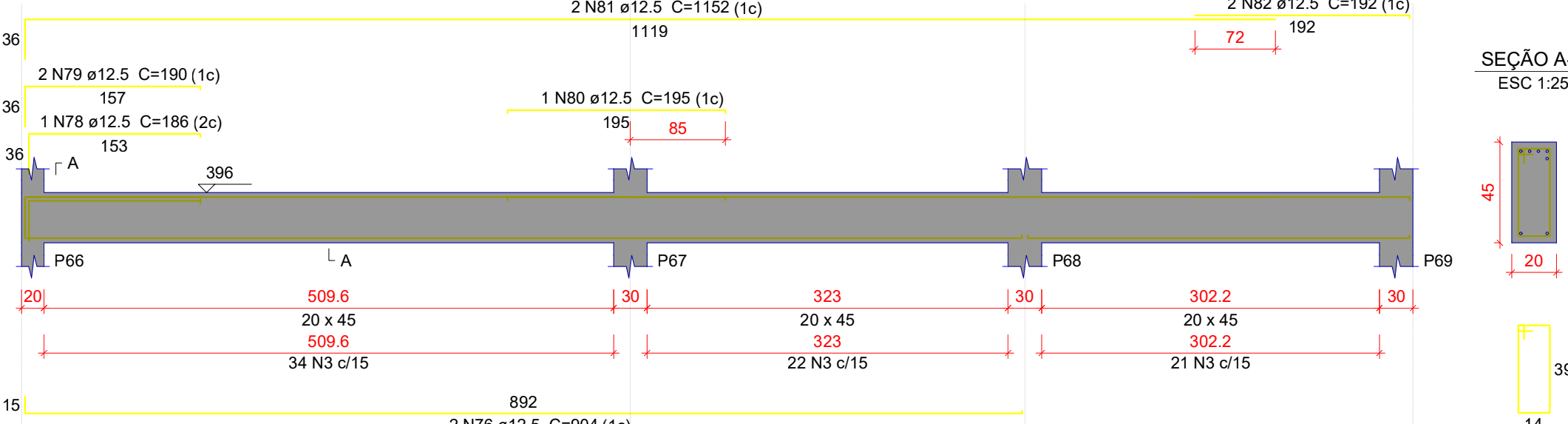
VM228

ESC 1:50



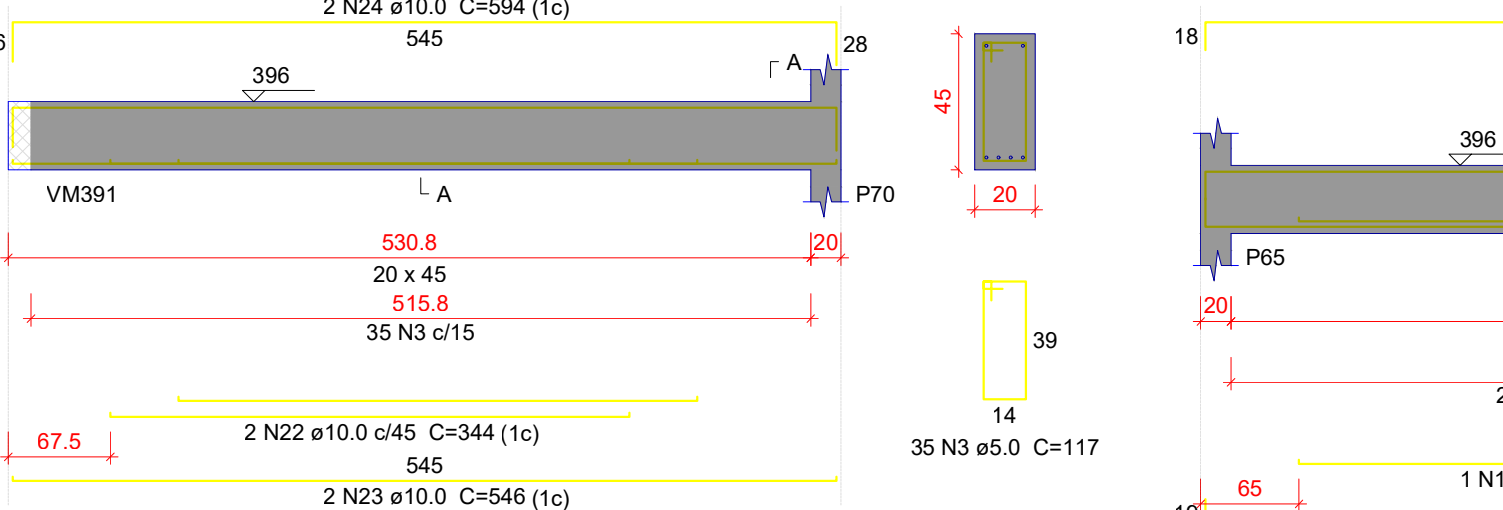
VM229

ESC 1:50



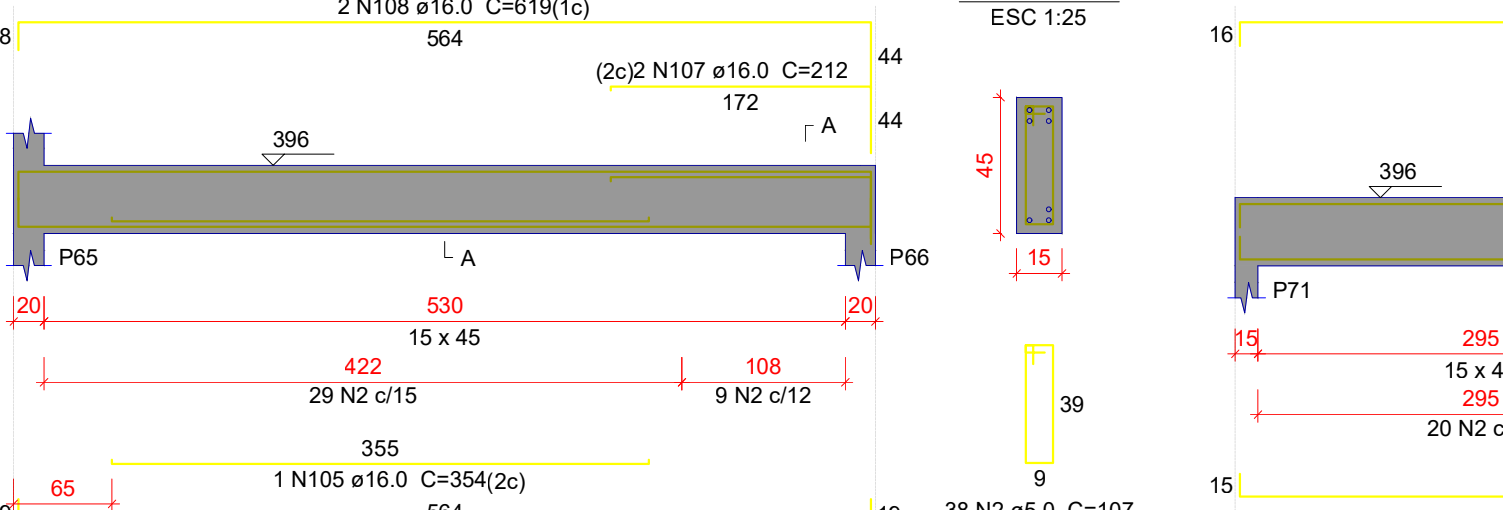
VM230

ESC 1:50



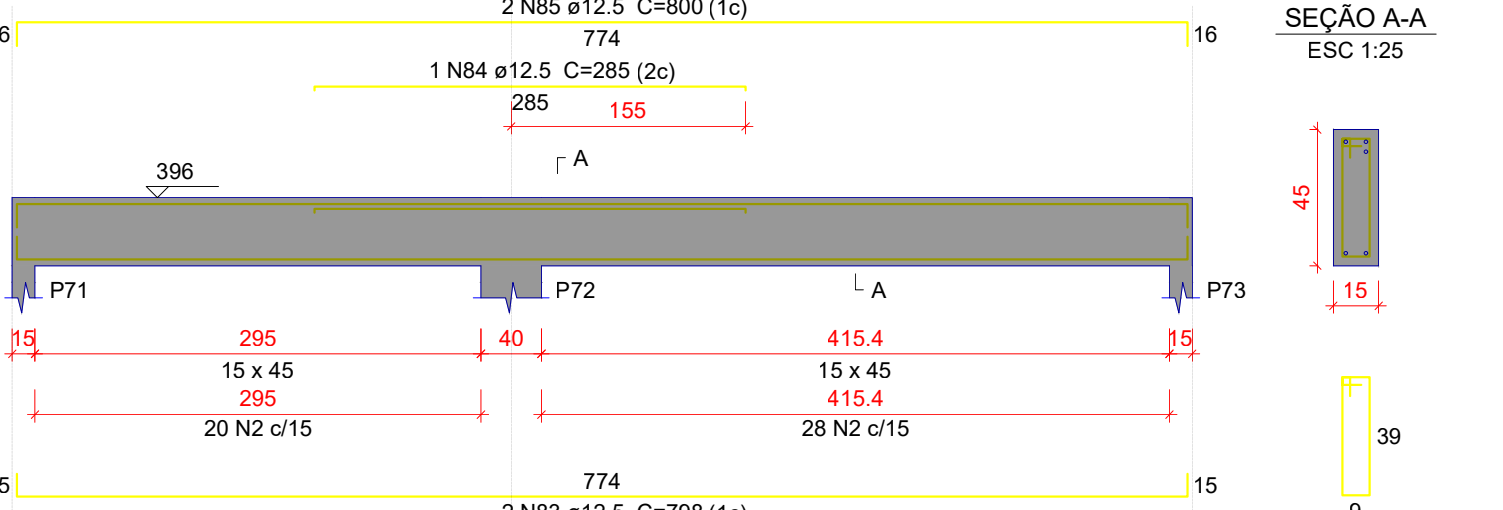
VM231

ESC 1:50



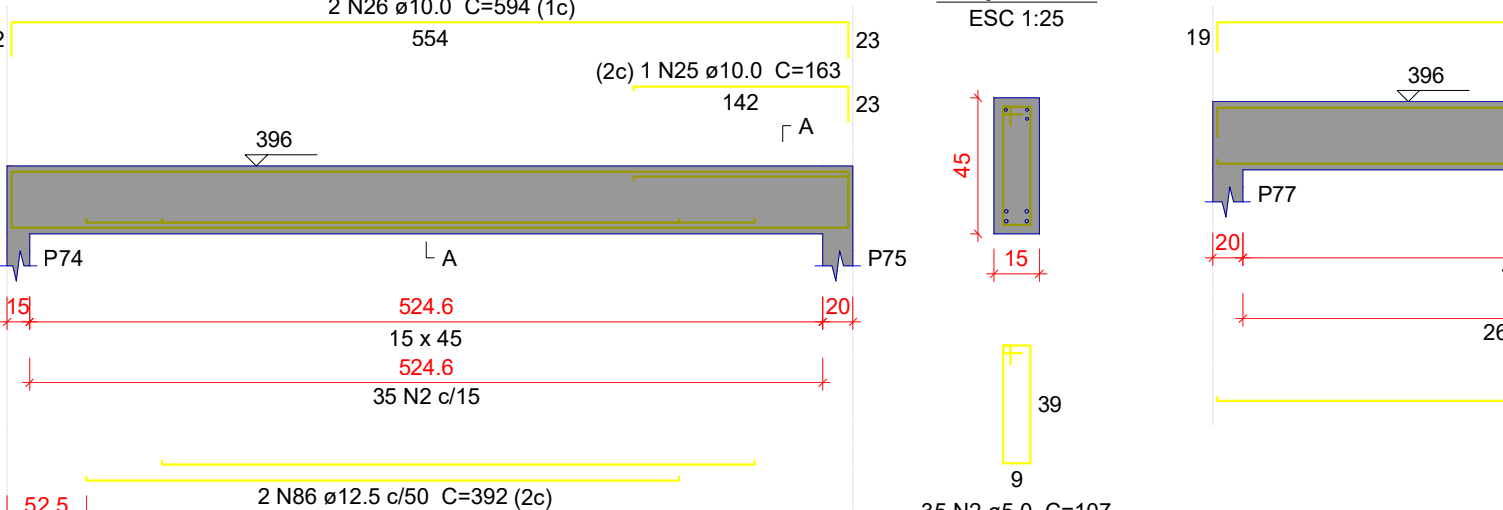
VM232

ESC 1:50



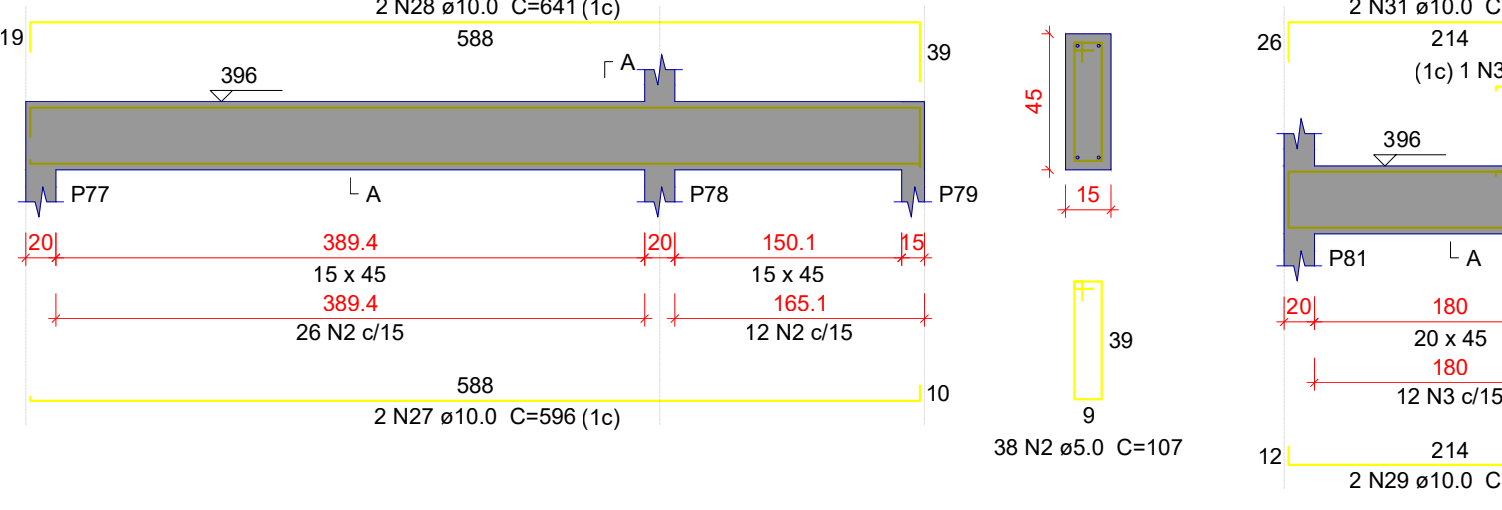
VM233

ESC 1:50



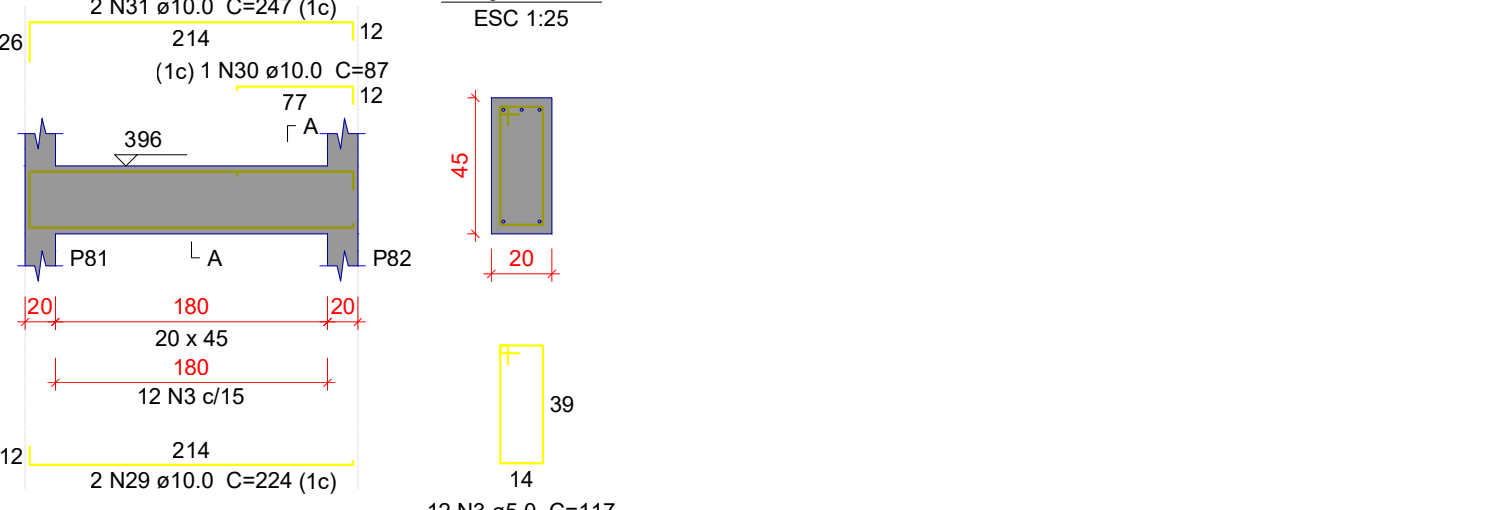
VM234

ESC 1:50



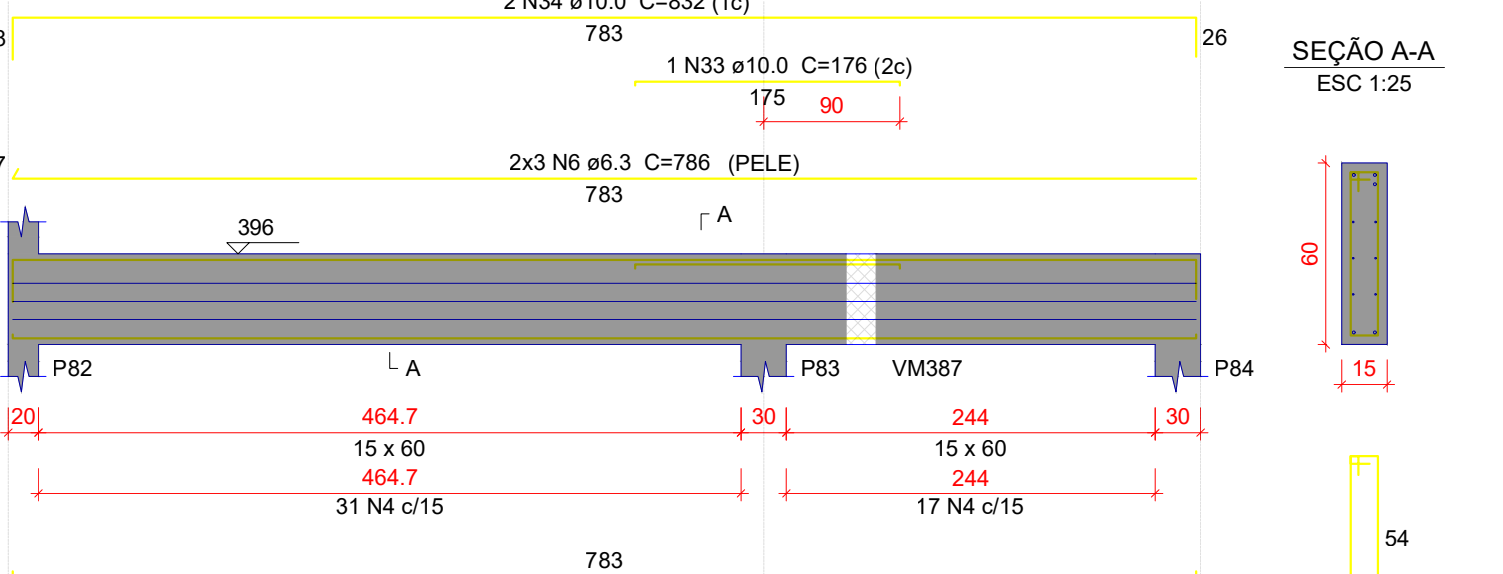
VM235

ESC 1:50



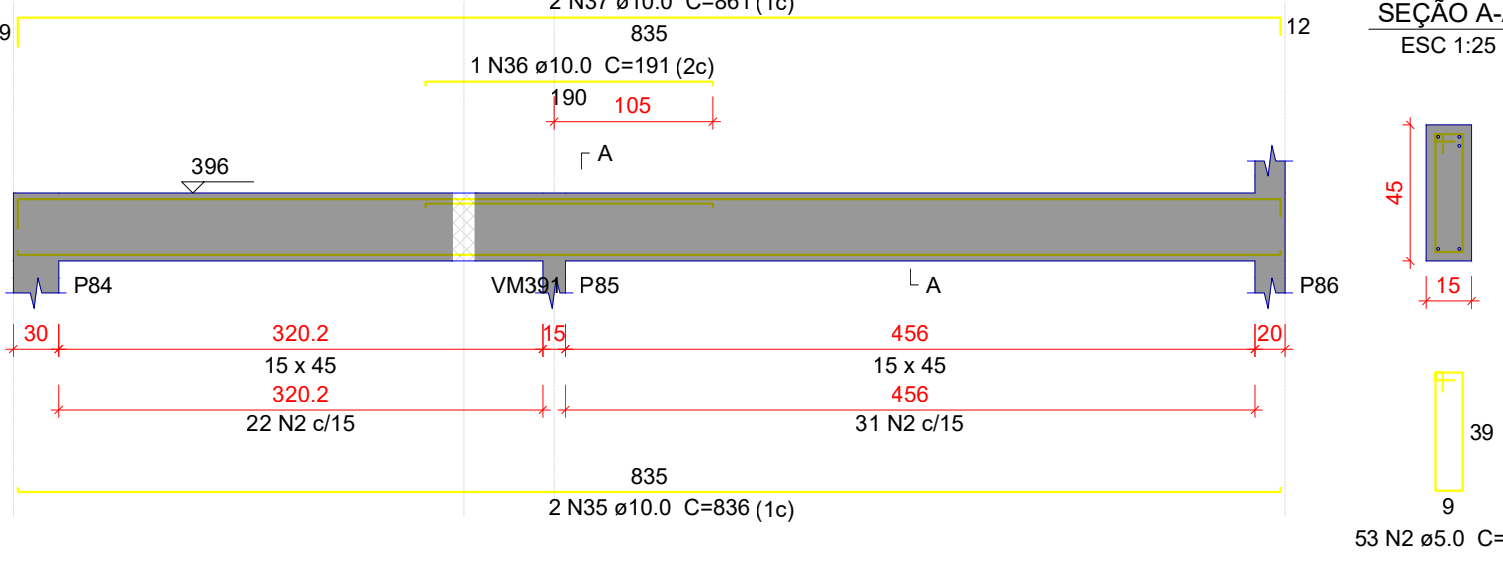
VM236

ESC 1:50



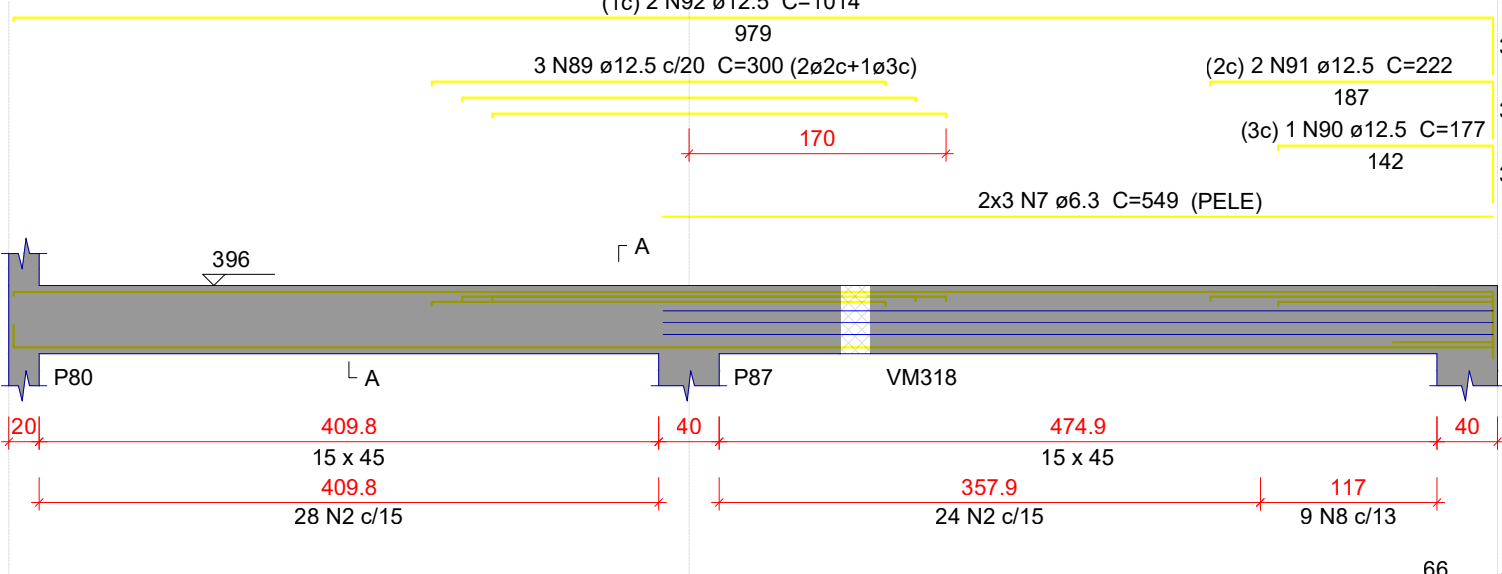
VM237

ESC 1:50



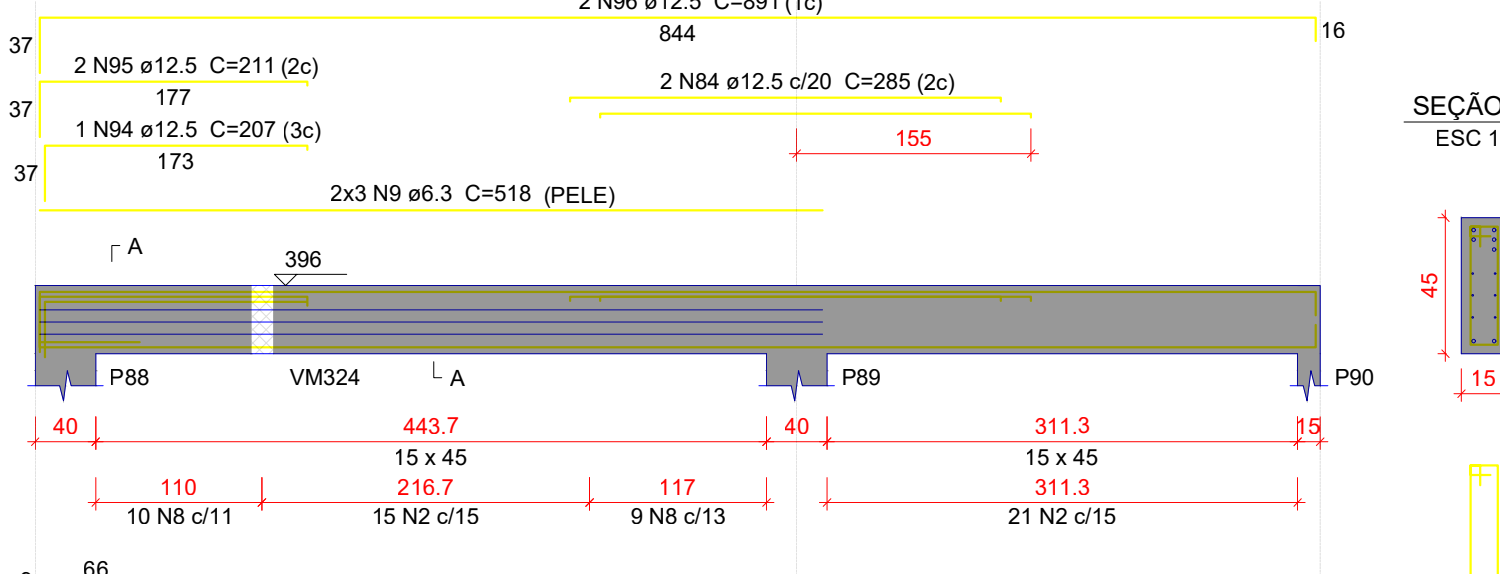
VM238

ESC 1:50



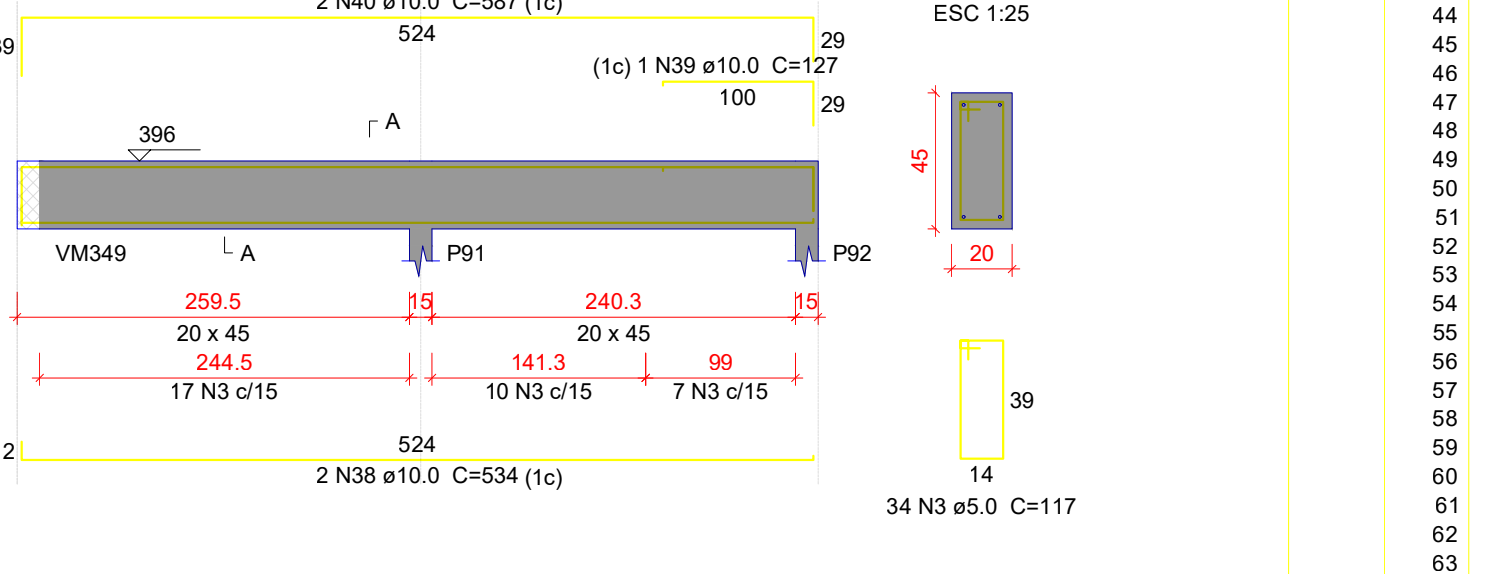
VM239

ESC 1:50



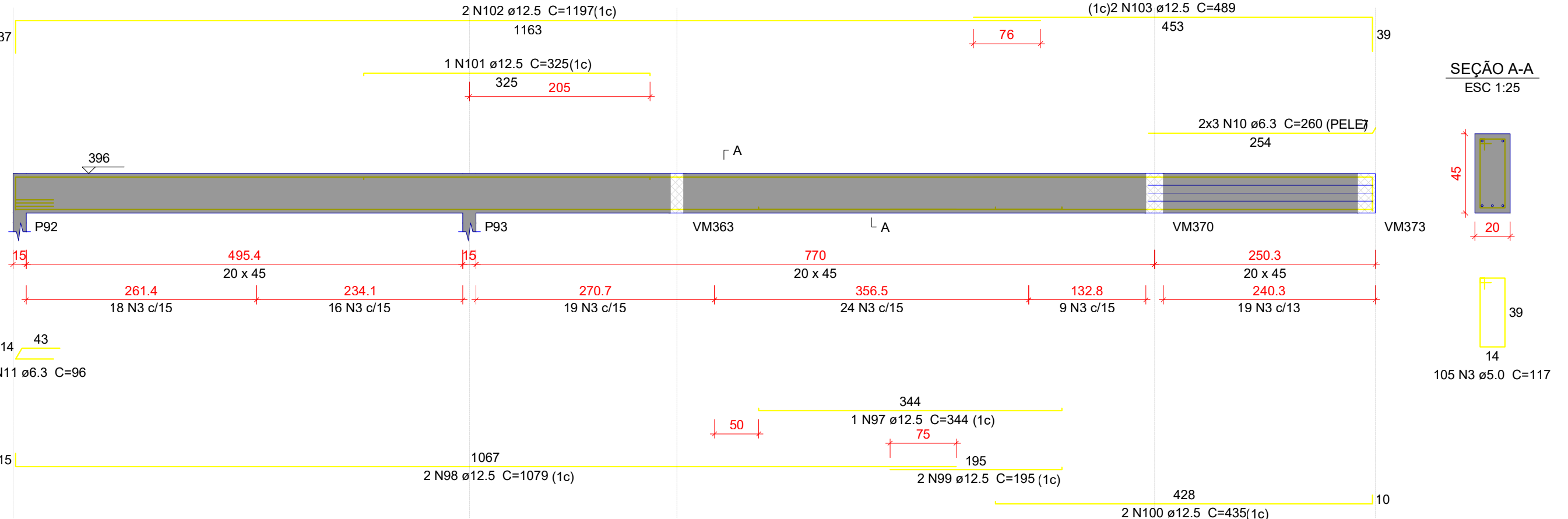
VM240

ESC 1:50



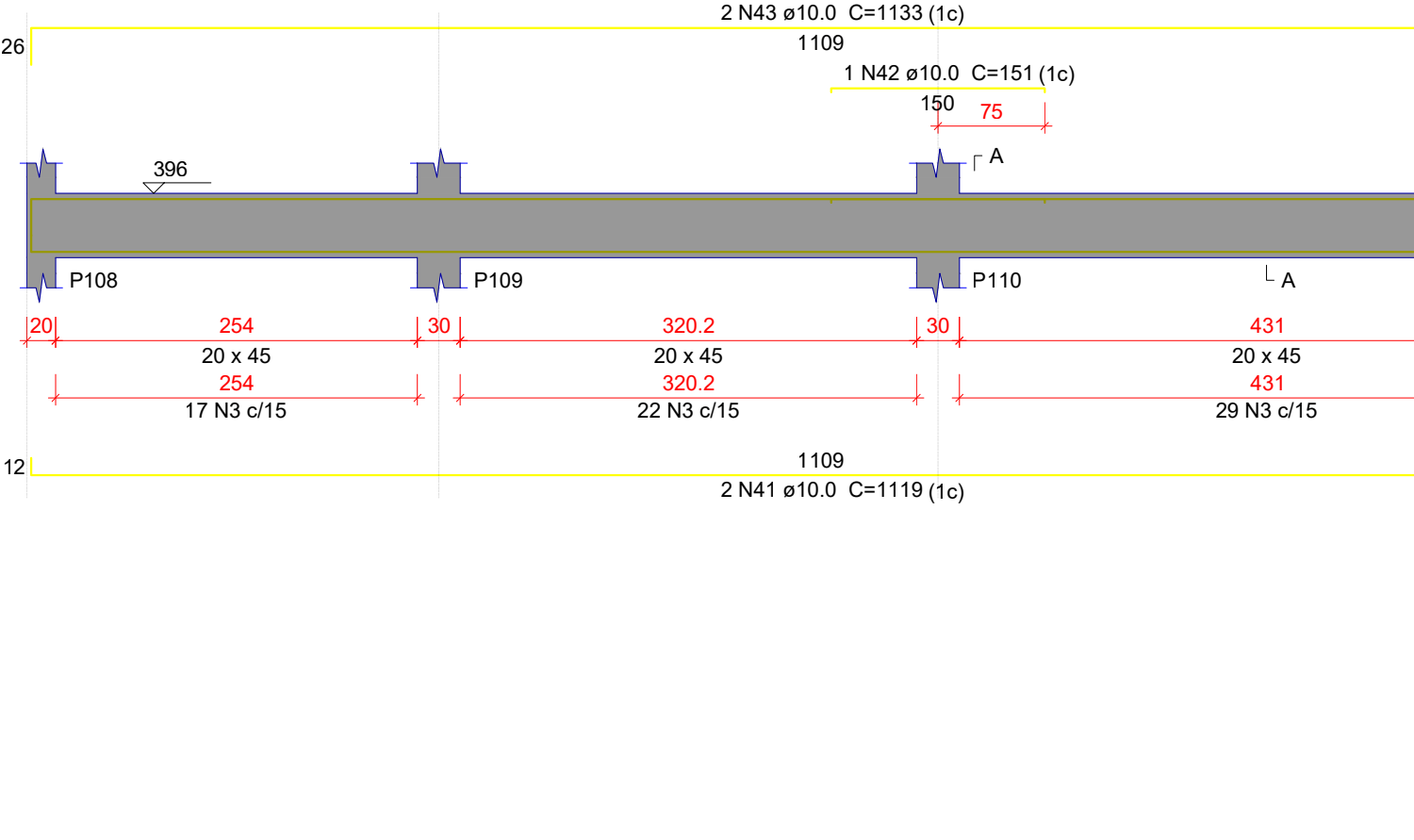
VM241

ESC 1:50



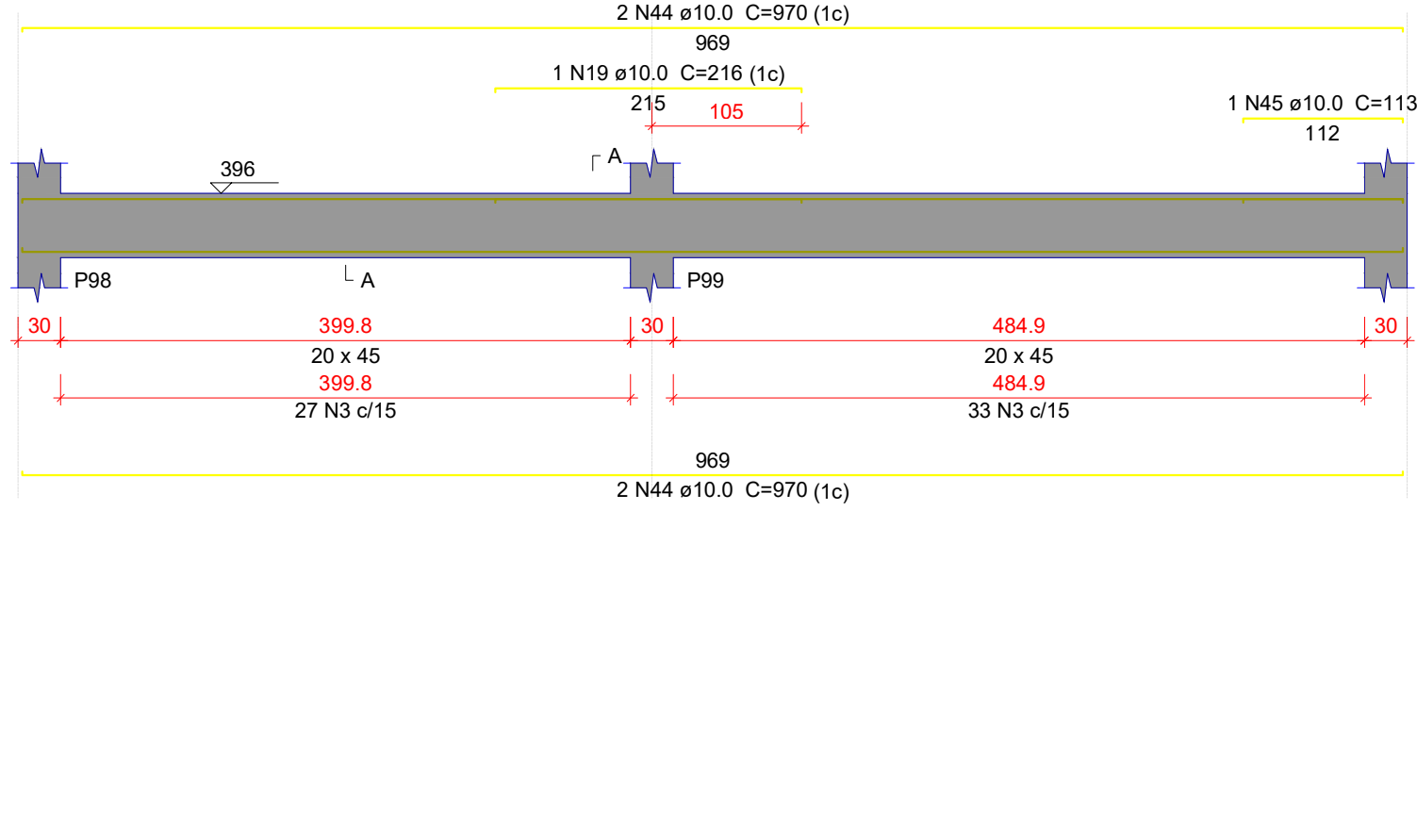
VM242

ESC 1:50



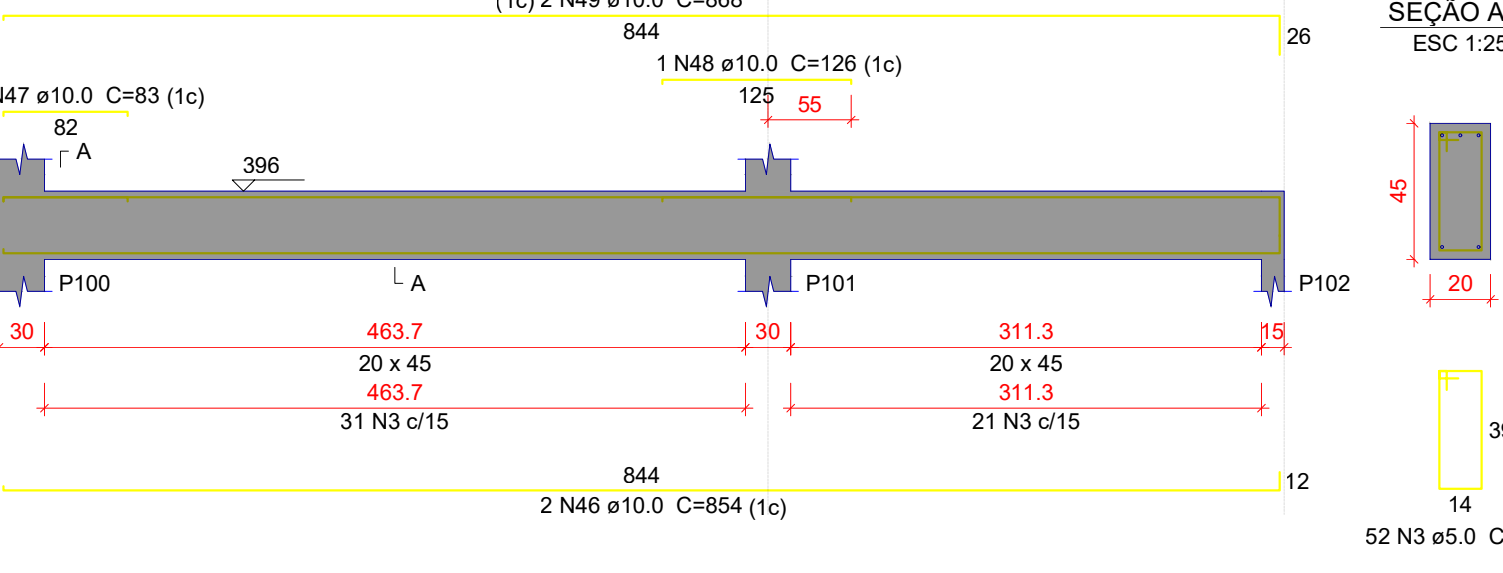
VM243

ESC 1:50



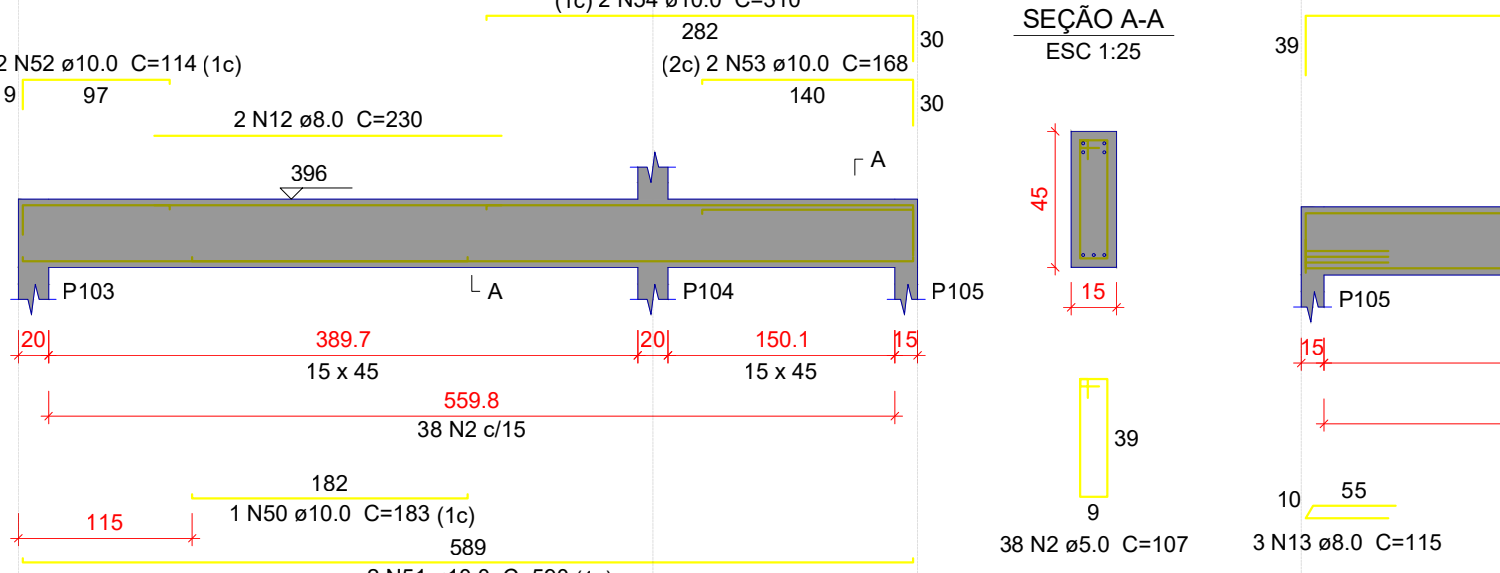
VM244

ESC 1:50



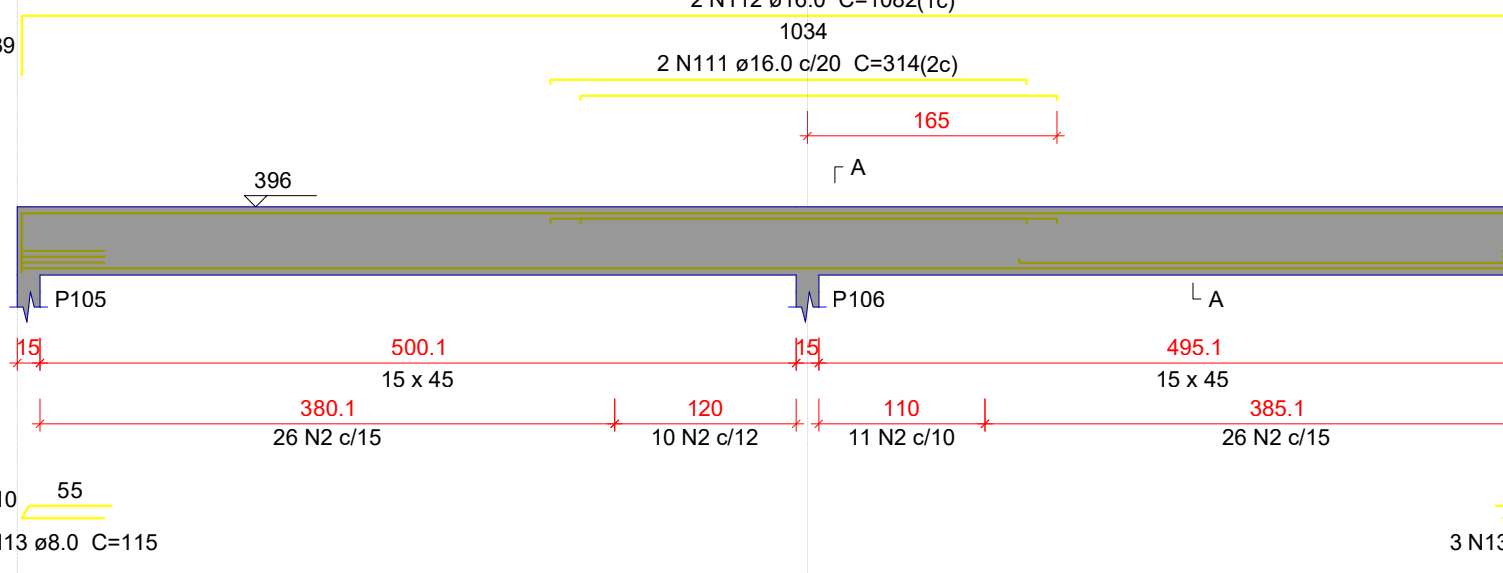
VM245

ESC 1:50



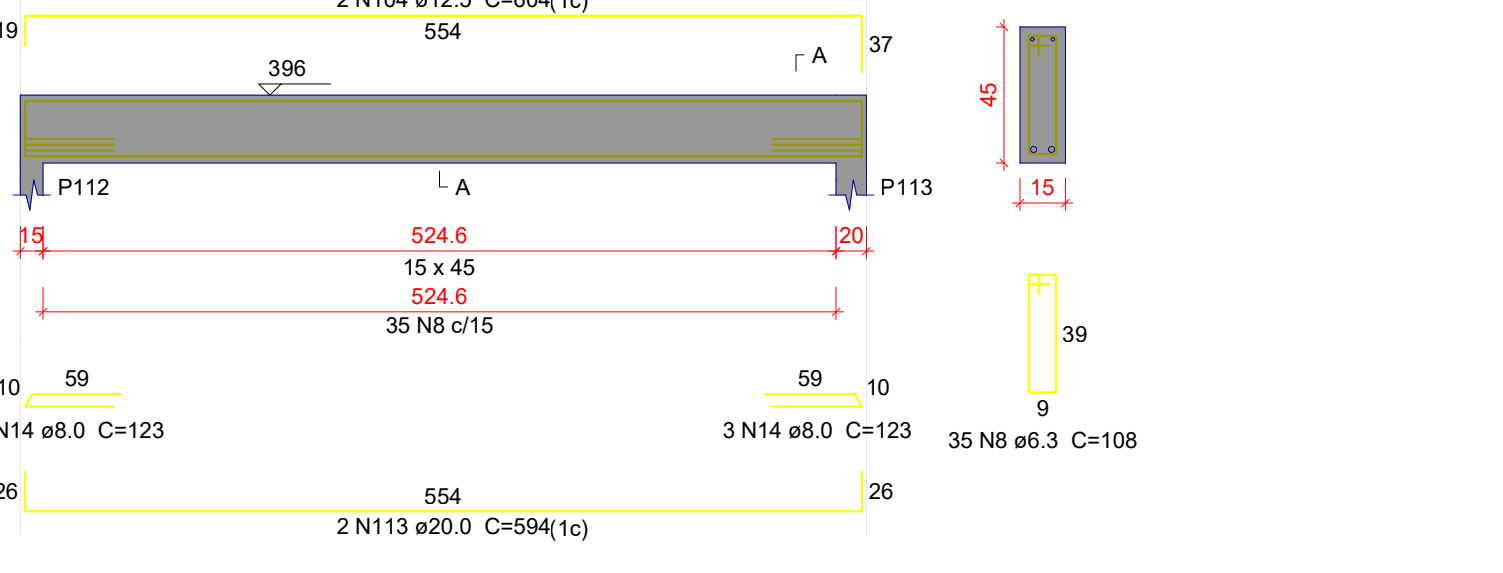
VM246

ESC 1:50



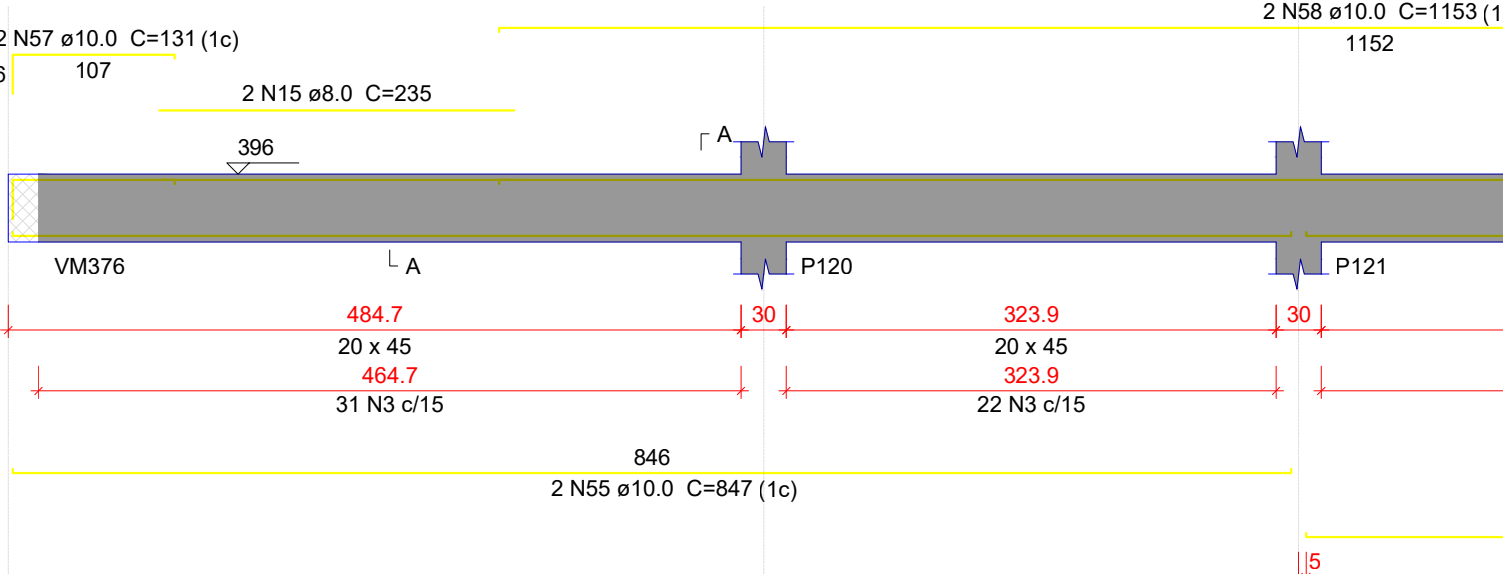
VM247

ESC 1:50



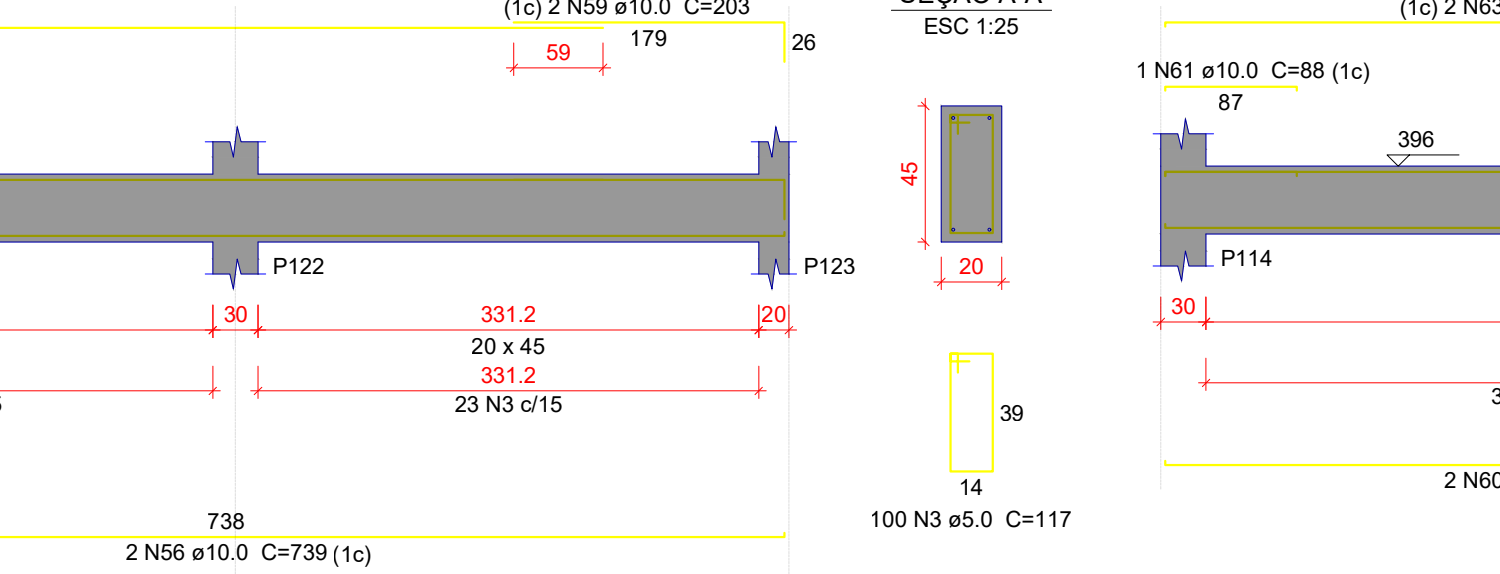
VM248

ESC 1:50



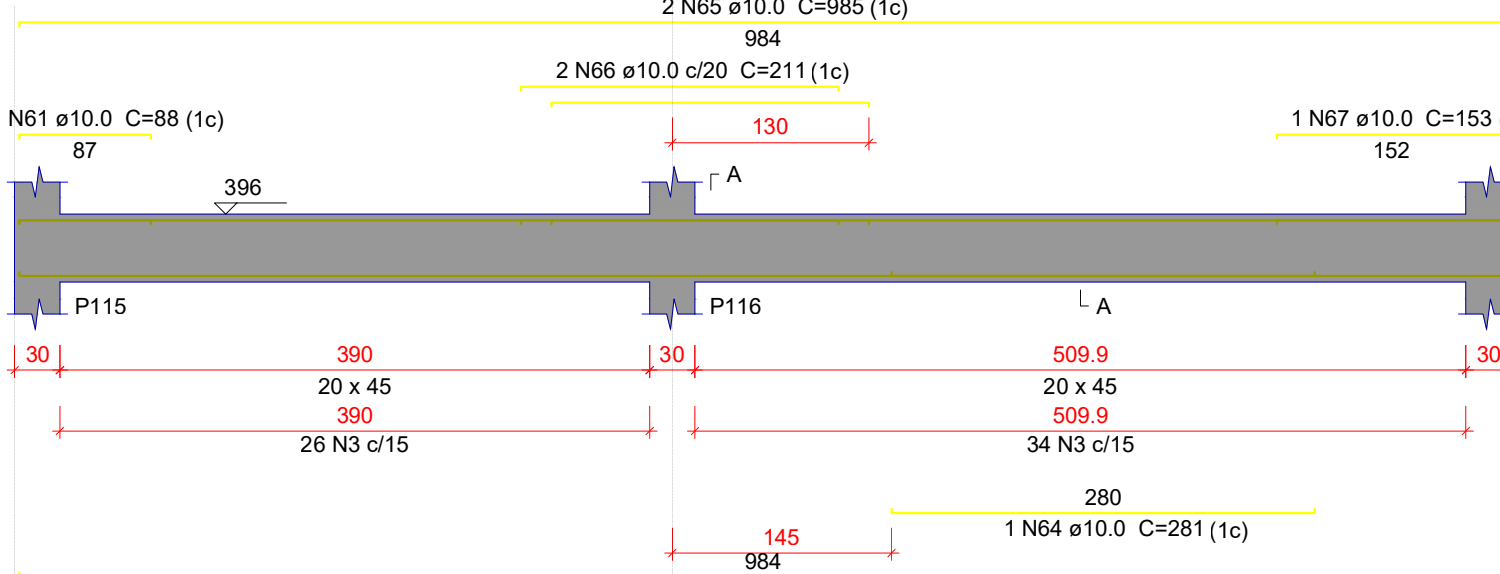
VM249

ESC 1:50



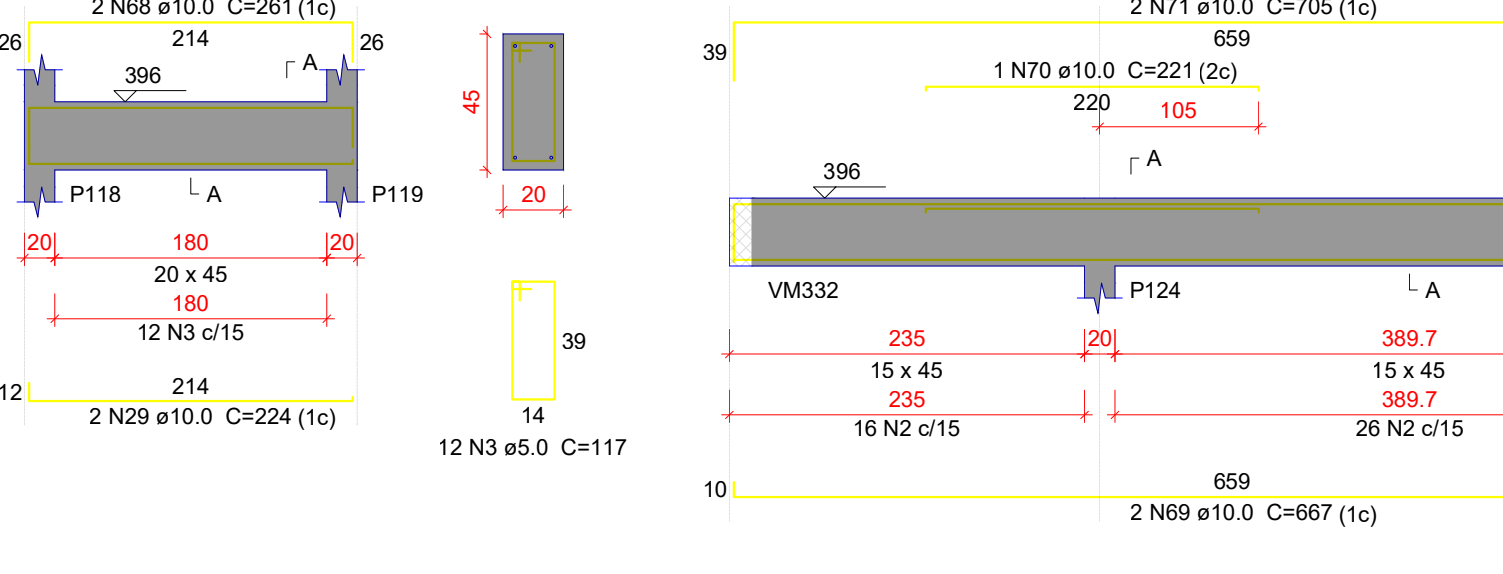
VM250

ESC 1:50



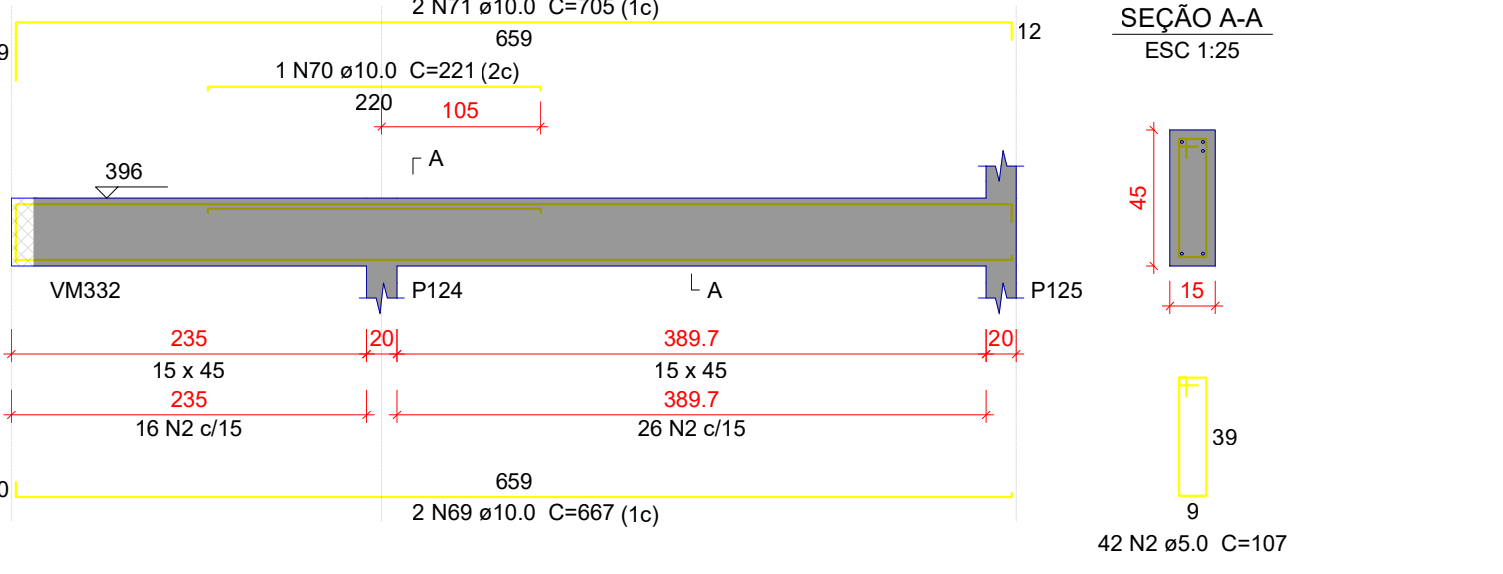
VM251

ESC 1:50



VM252

ESC 1:50



Relação do aço

VM226	VM227	VM228			
VM229	VM230	VM231			
VM232	VM233	VM234			
VM235	VM236	VM237			
VM238	VM239	VM240			
VM241	VM242	VM243			
VM244	VM245	VM246			
VM247	VM248	VM249			
VM250	VM251	VM252			
AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA50	1	5.0	97	97	97
	2	5.0	507	107	5424
	3	5.0	760	117	8892
	4	5.0	48	137	6576
	5	5.0	2	137	274
	6	6.3	6	786	4716
	7	6.3	6	549	3294
	8	6.3	63	108	6804
	9	6.3	6	518	3108
	10	6.3	6	260	1560
	11	6.3	3	96	288
CA50	12	8.0	2	230	460
	13	8.0	6	115	690
	14	8.0	6	123	738
	15	8.0	2	235	470
	16	10.0	1	272	272
	17	10.0	4	1035	4140
	18	10.0	2	93	186
	19	10.0	4	216	864
	20	10.0	1	424	424
	21	10.0	2	829	1658
	22	10.0	2	344	688
CA50	23	10.0	2	546	1092
	24	10.0	2	584	1168
	25	10.0	1	163	163
	26	10.0	2	594	1188
	27	10.0	2	596	1192
	28	10.0	2	541	1082
	29	10.0	4	224	896
	30	10.0	1	87	87
	31	10.0	2	247	494
	32	10.0	2	784	1568
	33	10.0	1	176	176
CA50	34	10.0	2	247	494
	35	10.0	2	836	1672
	36	10.0	2	534	1068
	37	10.0	2	861	1722
	38	10.0	2	534	1068
	39	10.0	1	127	127
	40	10.0	2	587	1174
	41	10.0	2	1119	2238
	42	10.0	1	151	151
	43	10.0	2	1133	2266
	44	10.0	4	970	3880
CA50	45	10.0	1	113	113
	46	10.0	2	654	1308
	47	10.0	1	83	83
	48	10.0	1	138	138
	49	10.0	2	868	1736
	50	10.0	1	183	183
	51	10.0	2	108	216
	52	10.0	2	114	228
	53	10.0	2	108	216
	54	10.0	2	310	620
	55	10.0	2	847	1694
CA50	56	10.0	2	736	1472
	57	10.0	2	131	262
	58	10.0	2	1153	2306
	59	10.0	2	203	406
	60	10.0	2	503	1006
	61	10.0	2	88	176
	62	10.0	1	132	132
	63	10.0	2	512	1024
	64	10.0	1	281	281
	65	10.0	4	985	3940
	66	10.0	2	201	402
CA50	67	10.0	1	153	153
	68	10.0	2	261	522
	69	10.0	2	667	1334
	70	10.0	1	221	221
	71	10.0	2	705	1410
	72	12.5	2	882	1764
	73	12.5	2	904	1808
	74	12.5	2	307	614
	75	12.5	2	804	1608
	76	12.5	2	904	1808
	77	12.5	2	342	684
CA50	78	12.5	1	186	186
	79	10.0	2	190	380
	80	12.5	1	195	195
	81	12.5	2	1152	2304
	82	12.5	2	192	384
	83	12.5	2	798	1596
	84	12.5	3	285	855
	85	12.5	2	800	1600
	86	12.5	2	392	784
	87	12.5	2	578	1156
	88	12.5	2	1003	2006
CA50	89	12.5	3	300	900
	90	12.5	1	177	177
	91	12.5	2	222	444
	92	12.5	2	1014	2028
	93	12.5	2	868	1736
	94	12.5	1	207	207
	95	12.5	2	211	422
	96	12.5	2	981	1962
	97	12.5	1	344	344
	98	12.5	2	1079	2158
	99	12.5	2	195	390
CA50	100	12.5	2	435	870
	101	12.5	1	325	325
	102	12.5	2	1197	2394
	103	12.5	2	489	978
	104	12.5	2	604	1208
	105	16.0	1	354	354
	106	16.0	2	595	1190
	107	16.0	2	212	424
	108	16.0	2	619	1238
	109	16.0	1	334	334
	110	16.0	2	1065	2130
CA50	111	16.0	2	314	628
	112	16.0	2	1082	2164
	113	20.0	2	594	1188

Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (cm)	PESO = 10 % (kg)
CA50	6.3	197.7	63.2
	8.0	234.6	75.2
	10.0	567.9	185.1
	12.5	360.6	112.3
	16.0	84.7	26.1
	20.0	11.9	3.7
CA80	5.0	1501.2	254.5
PESO TOTAL (kg)			
CA50	1010		
CA80	254.5		

Volume de concreto (C-35) = 16.28 m³

Área de forma = 144.02 m²

Características do Projeto

- 1 - COBRIMENTO DAS ARMADURAS - PILARES E VIGAS: 3 cm
- 2 - COBRIMENTO DAS ARMADURAS - LAJES E ESCADAS: 3 cm
- 3 - COBRIMENTO DAS ARMADURAS - FUNDAÇÃO: 4.5 cm
- 4 - PREVER LASTRO DE CONCRETO MAGRO (5 cm) SOB AS ESTRUTURAS EM CONCRETO.

5 - OS VENTOS INCIDENTES NAS FACES X (90°) E Y (0°), RESPECTIVAMENTE, NÃO OCORREM SIMULTANEAMENTE.

LEGENDA DA PLANTA DE LOCAÇÃO

- A) ORIENTAÇÃO DOS EIXOS DOS PILARES
- 1) ORIENTAÇÃO DOS EIXOS DOS PILARES

NOTAS 3 : GERAIS

- 1 - Dimensões em Centímetros e Níveis em metros
- 2 - Conferir as disposições das armaduras antes da concretagem.
- 3 - A Responsabilidade pela fiscalização do obra é do Eng.º resp. Técnico.
- 4 - Aconselhamos moldagem de corpos de prova para cada combinação betoneira.
- 5 - Respeitar os prazos mínimos para retirada de formas e escoramentos.
- 6 - Evitar romper concreto após endurecimento, com moimeta e talhadeira.
- 7 - Toda e qualquer alteração no respectivo projeto, o Calculista deverá ser consultado e o mesmo deverá emitir seu parecer por escrito.

NOTAS 1 : DURABILIDADE

- 1 - CLASSE DE AGRESSIVIDADE AMBIENTAL: II
- 2 - MÓDULO DE ELASTICIDADE > 35.42 GPa
- 3 - FATOR A/C < 0.4
- 4 - AÇO CA 50A E CA 80B
- 5 - CONCRETO CLASSE > 35 MPa
- 6 - CONSUMO DE CIMENTO > 350 Kg/m³

NOTAS 2 : NORMAS

- NBR 06118 - 2023 - Projeto de Estruturas de Concreto armado
- NBR 06120 - 2019 - Cargas para o Cálculo de Estruturas de edificações - Procedimento
- NBR 06123 - 2023 - Forças Devidas ao Vento em Edificações
- NBR 8681 - 2003 - Ações e Segurança nas Estruturas
- NBR 6122 - 2022 - Projeto e execução de Fundações

PROJETO EXECUTIVO

DISCIPLINA: ESTRUTURAL

PRANCHAS 34/62

PROJETO EXECUTIVO

MS_POLICLINICA_EST-34

KAYO HENRIQUE MOREIRA

199774/D