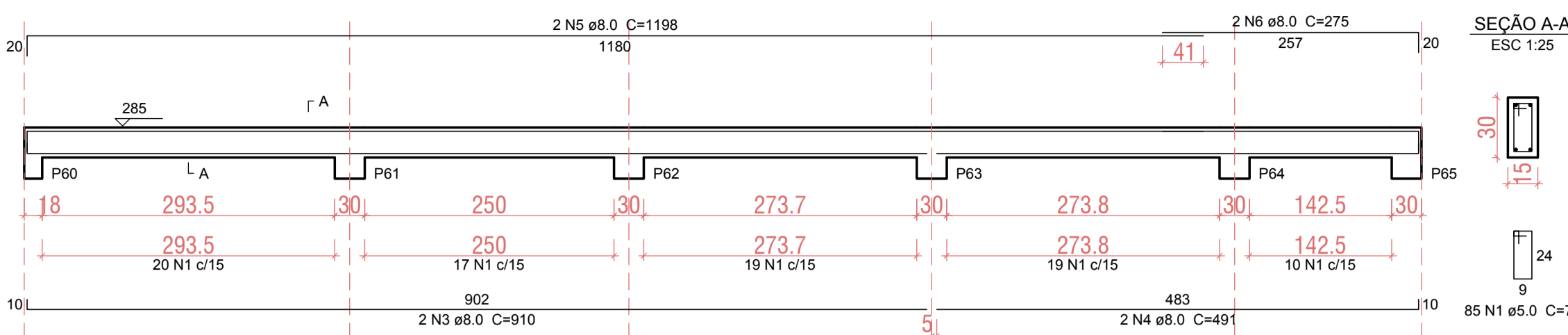
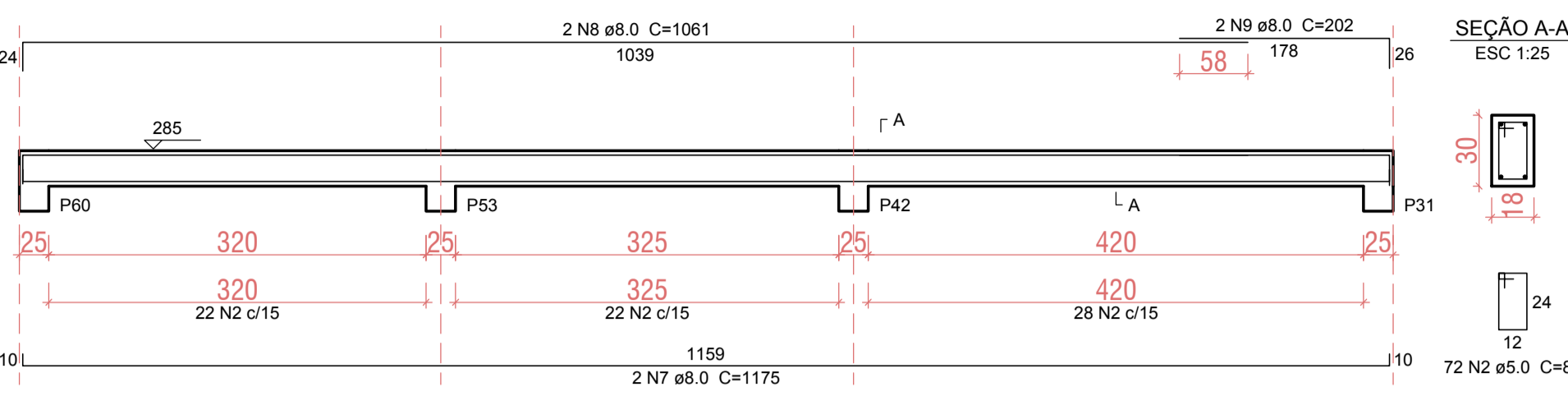


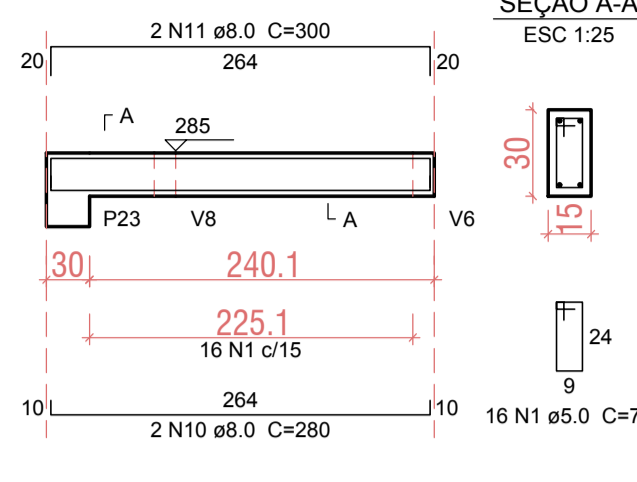
V26
ESC 1:50



V28
ESC 1:50



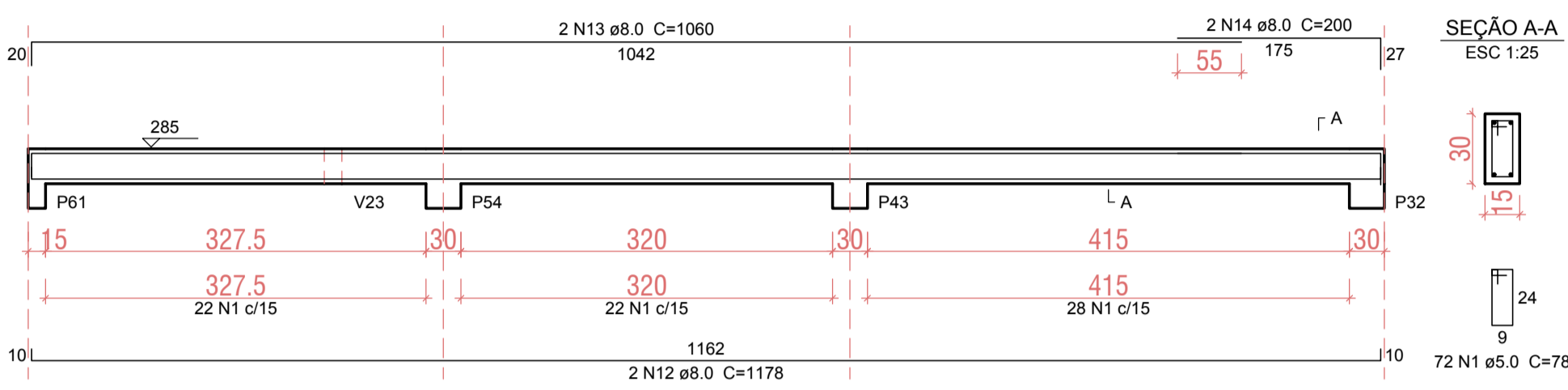
V40
ESC 1:50



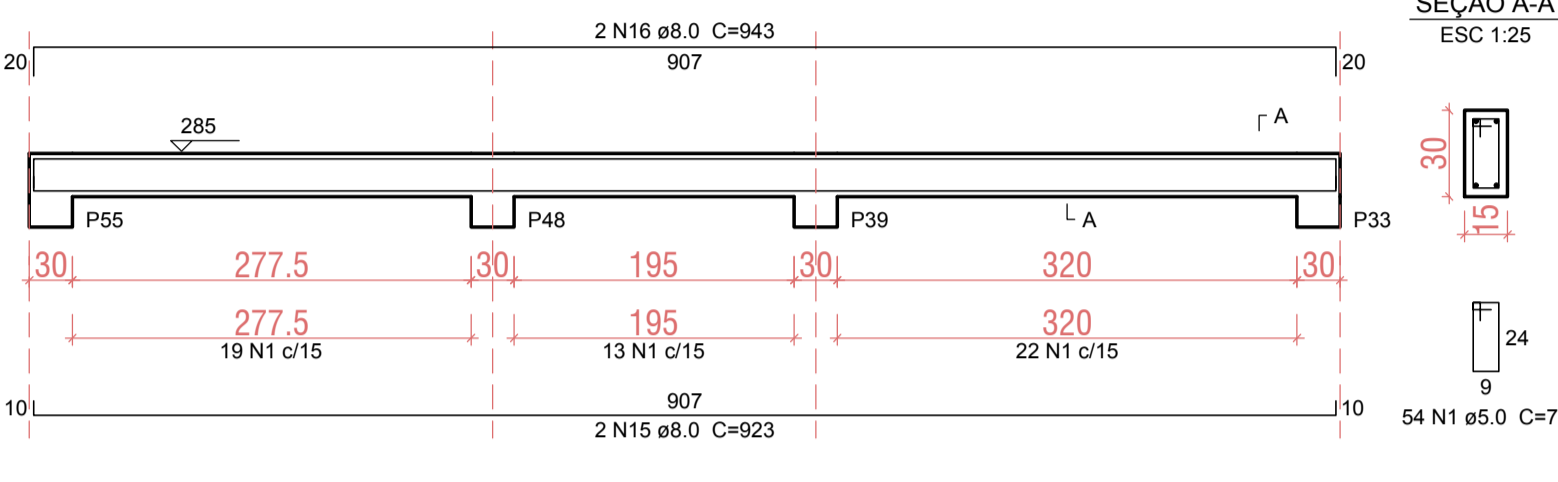
Relação do aço

AÇO	N	DIAM (mm)	QUANT (Barras)	UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	822	78	64116
CA50	2	5.0	170	84	14280
	3	8.0	2	910	1820
	4	8.0	2	491	982
	5	8.0	2	1198	2396
	6	8.0	2	275	550
	7	8.0	2	1175	2350
	8	8.0	2	1061	2122
	9	8.0	2	202	404
	10	8.0	8	280	2240
	11	8.0	8	300	2400
	12	8.0	2	1178	2356
	13	8.0	2	1060	2120
	14	8.0	2	200	400
	15	8.0	2	923	1846
	16	8.0	2	943	1886
	17	8.0	2	888	1776
	18	8.0	3	908	2724
	19	8.0	2	375	750
	20	8.0	2	383	766
	21	8.0	2	440	880
	22	8.0	2	464	928
	23	8.0	2	370	740
	24	8.0	4	390	1560
	25	8.0	4	365	1460
	26	8.0	2	385	770
	27	8.0	2	425	850
	28	8.0	2	439	878
	29	8.0	2	485	970
	30	8.0	2	509	1018
	31	8.0	2	398	796
	32	8.0	2	230	460
	33	8.0	2	250	500
	34	8.0	2	160	320
	35	8.0	2	180	360
	36	8.0	2	181	362
	37	8.0	2	201	402
	38	8.0	2	390	780
	39	8.0	6	490	2940
	40	8.0	2	510	1020
	41	8.0	2	830	1660
	42	8.0	2	850	1700
	43	8.0	4	515	2060
	44	8.0	2	744	1488
	45	8.0	2	774	1548
	46	8.0	2	99	198
	47	8.0	2	113	226
	48	8.0	2	620	1240
	49	8.0	2	640	1280
	50	10.0	2	439	878
	51	10.0	2	462	924
	52	10.0	2	765	1530
	53	10.0	2	779	1558
	54	10.0	2	420	840
	55	10.0	3	434	1302
	56	10.0	2	845	1690
	57	10.0	2	864	1728

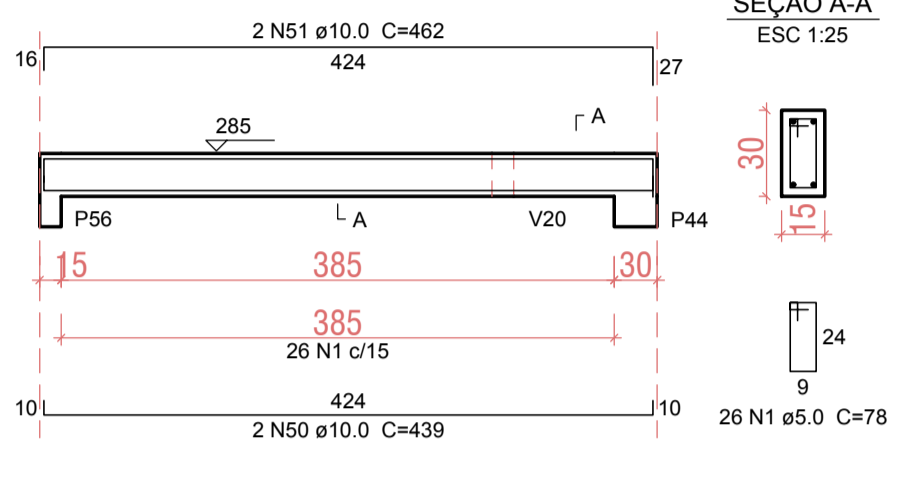
V31
ESC 1:50



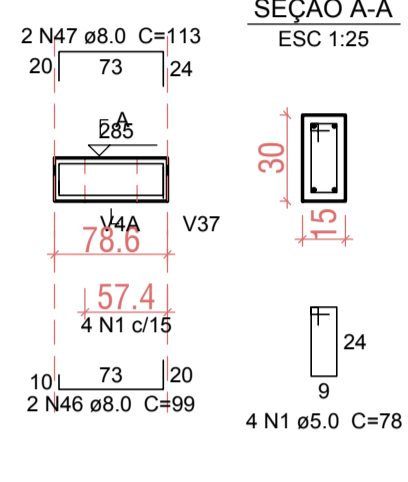
V33
ESC 1:50



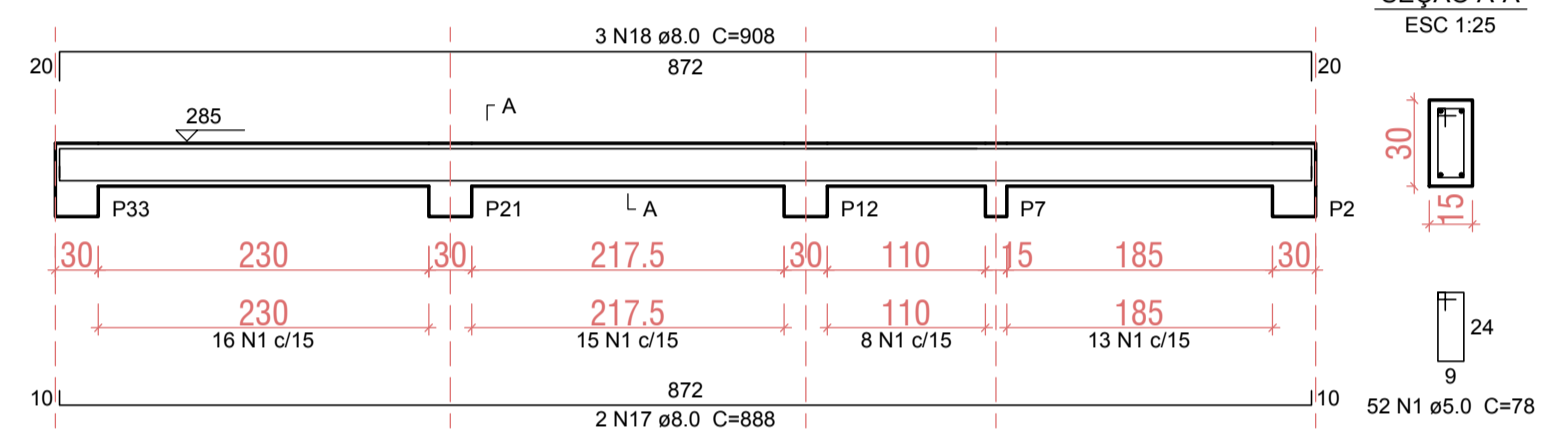
V36
ESC 1:50



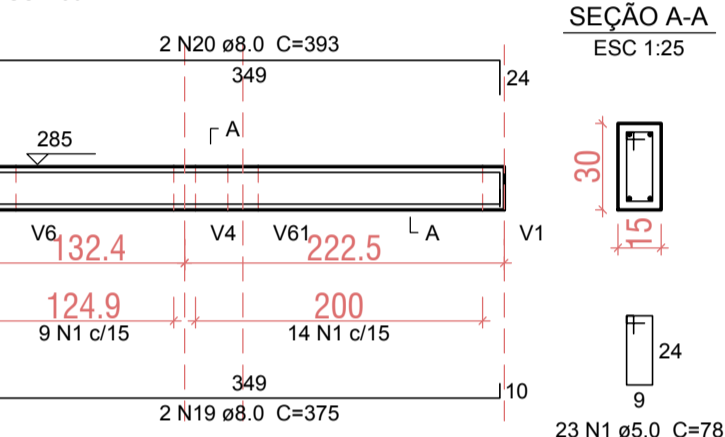
V61
ESC 1:50



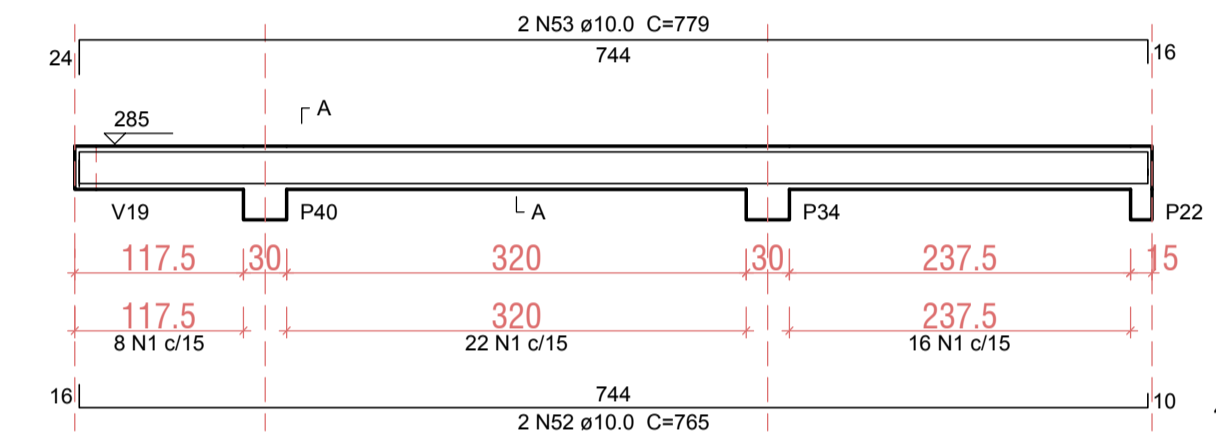
V34
ESC 1:50



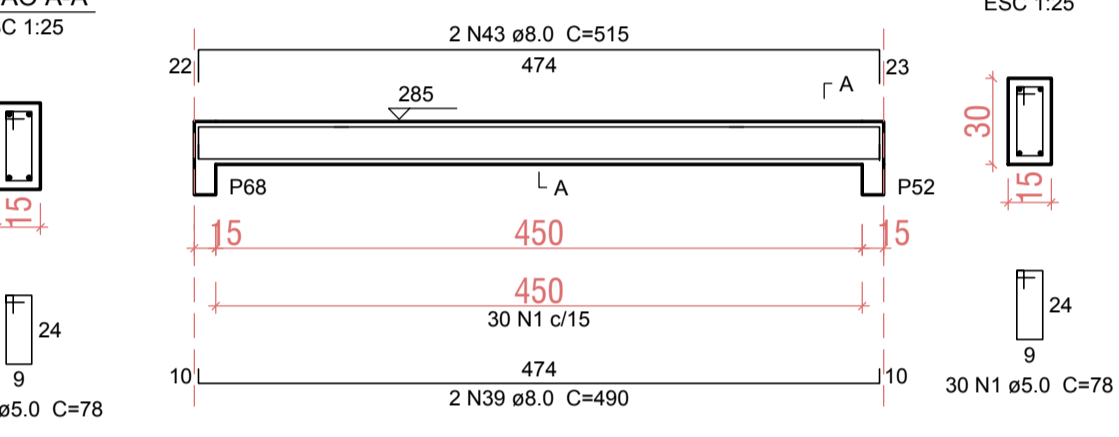
V37
ESC 1:50



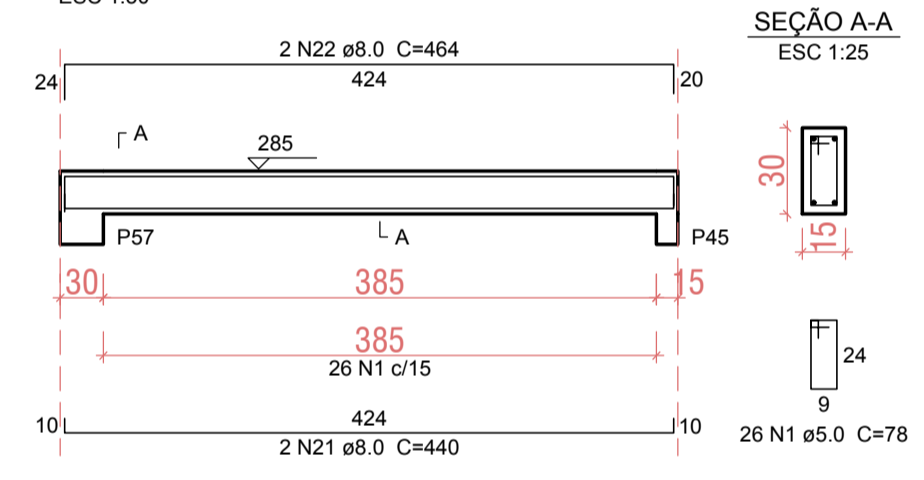
V38
ESC 1:50



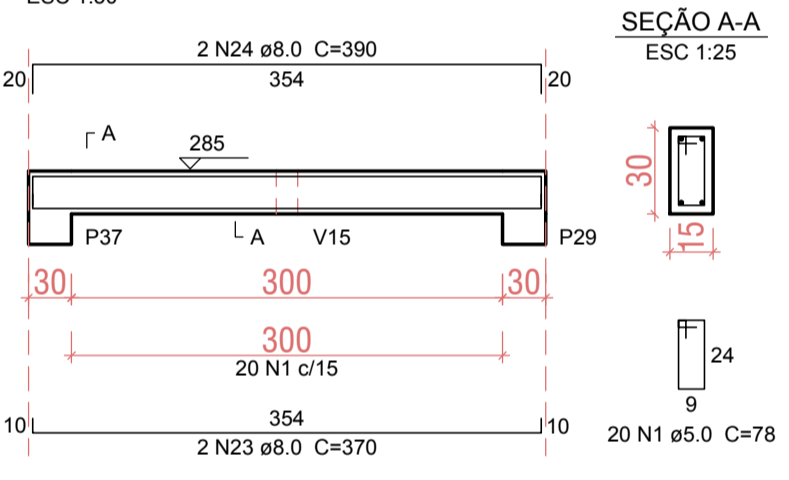
V60
ESC 1:50



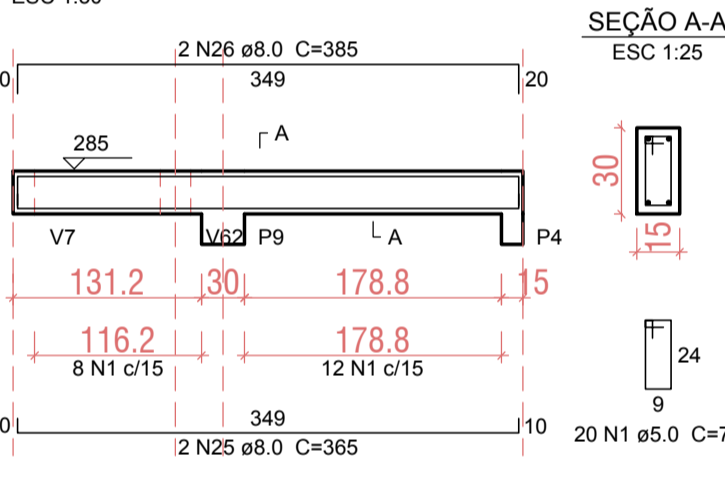
V41
ESC 1:50



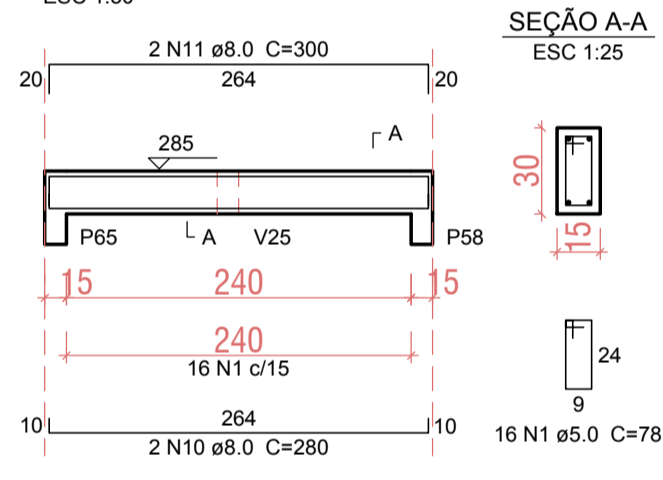
V43
ESC 1:50



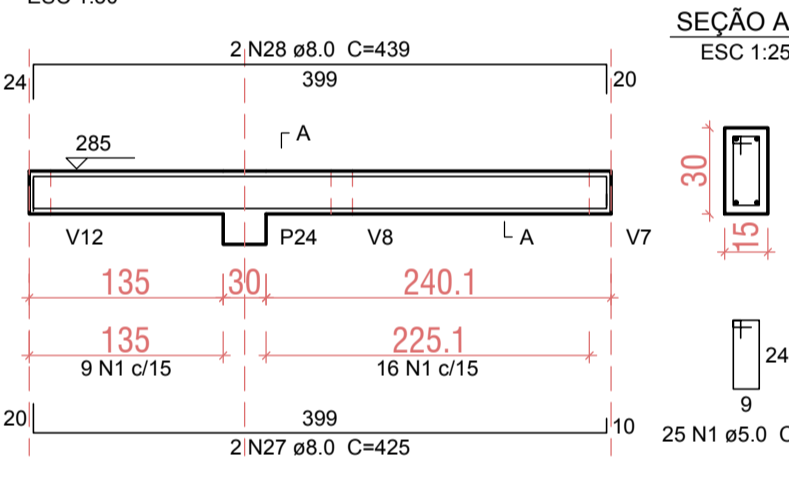
V44
ESC 1:50



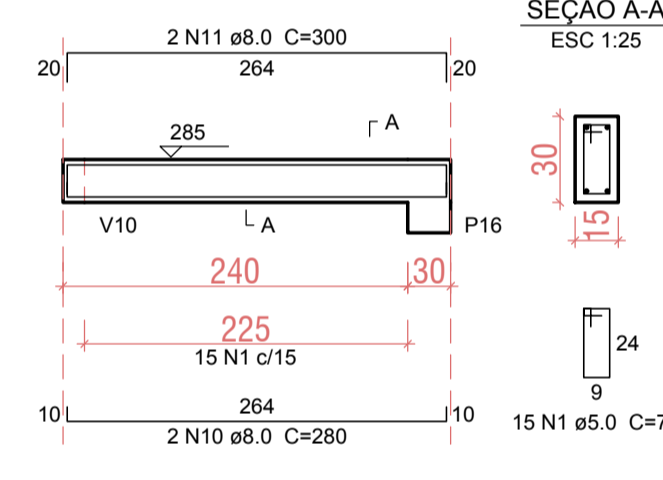
V45
ESC 1:50



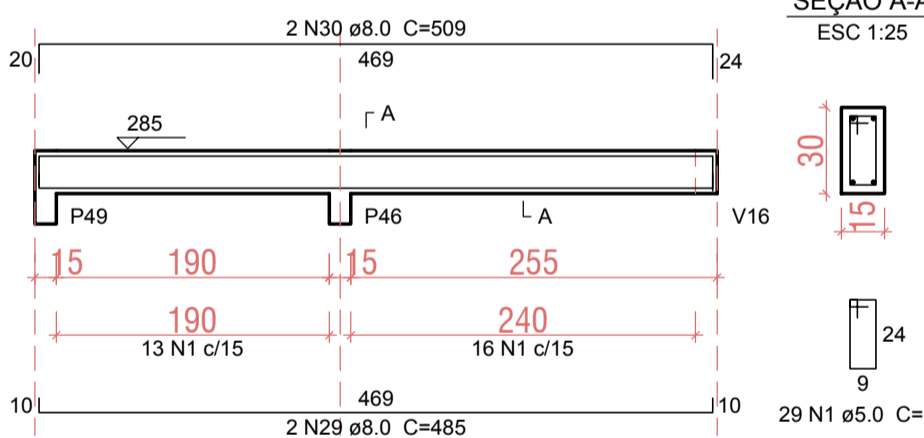
V46
ESC 1:50



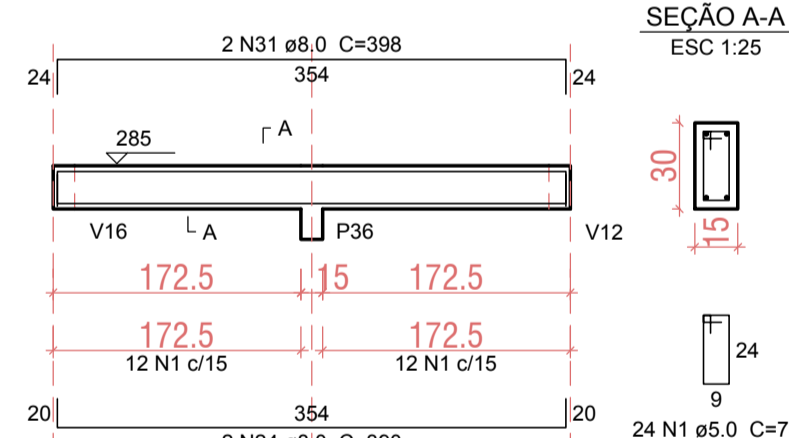
V48
ESC 1:50



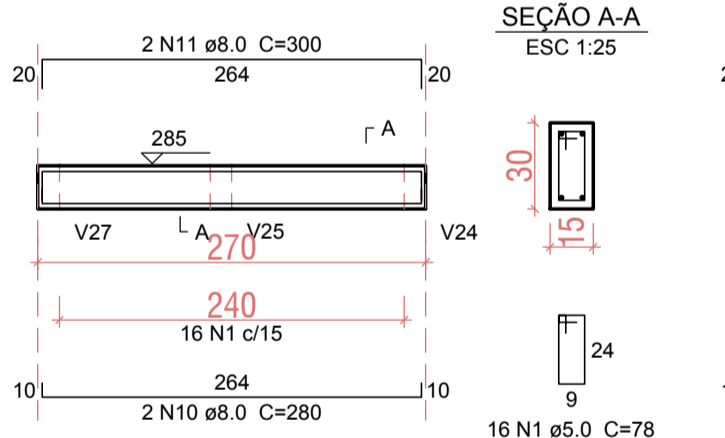
V47
ESC 1:50



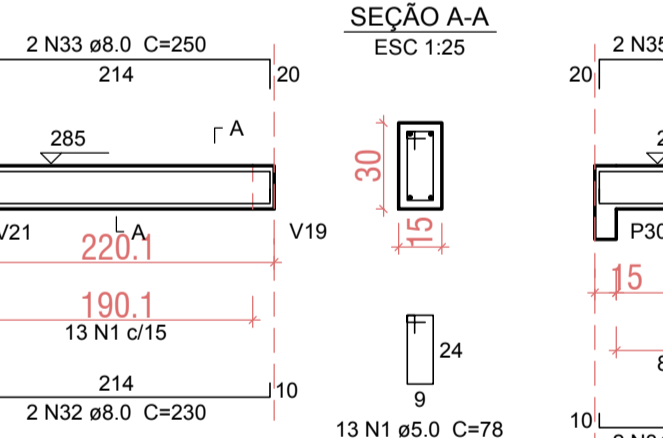
V49
ESC 1:50



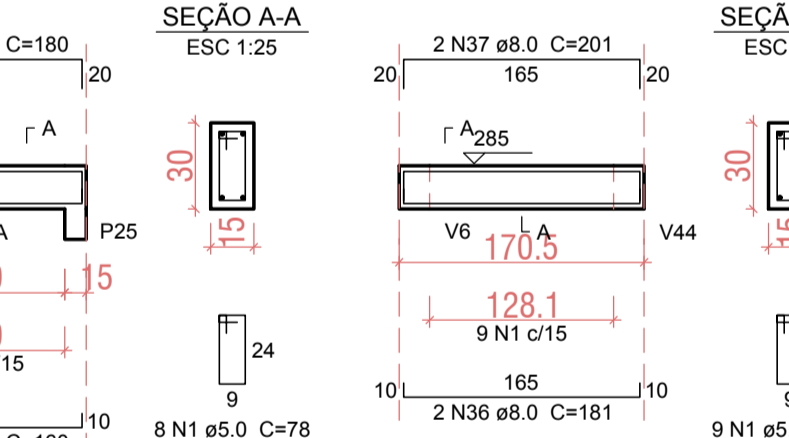
V50
ESC 1:50



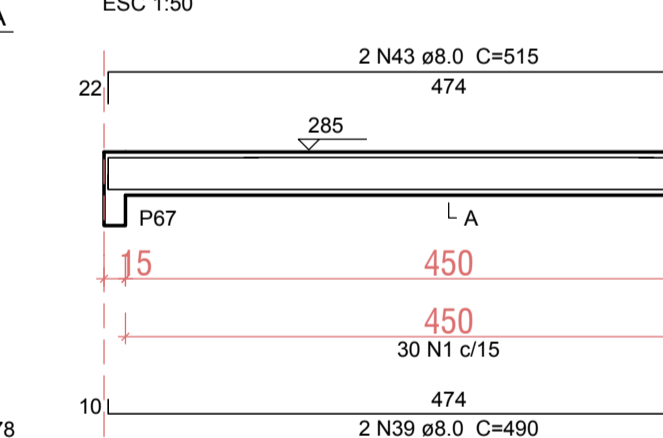
V51
ESC 1:50



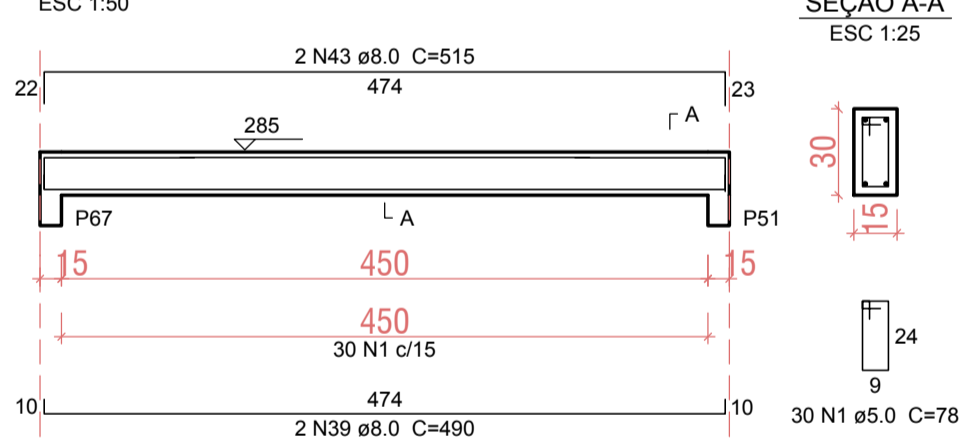
V52
ESC 1:50



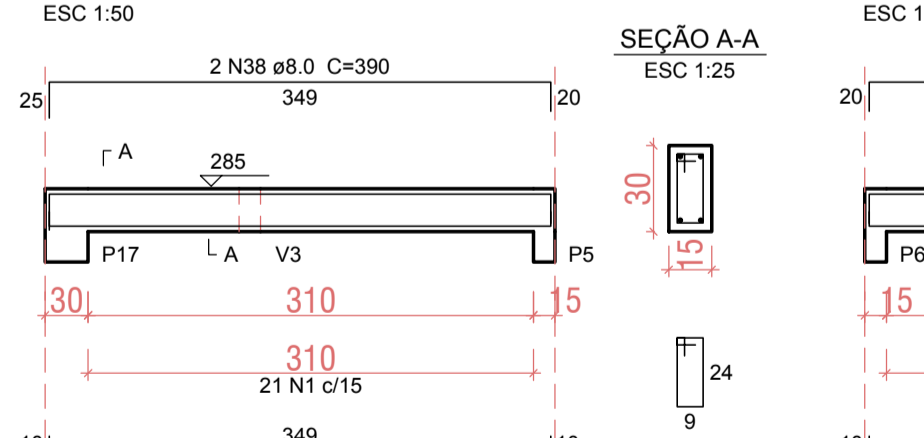
V62
ESC 1:50



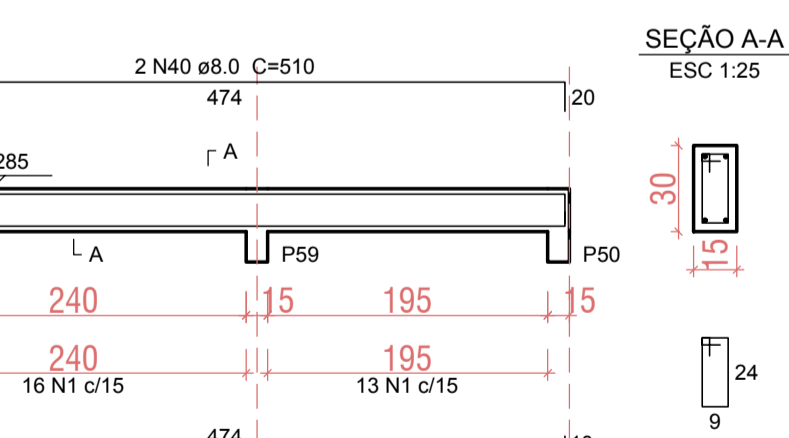
V57
ESC 1:50



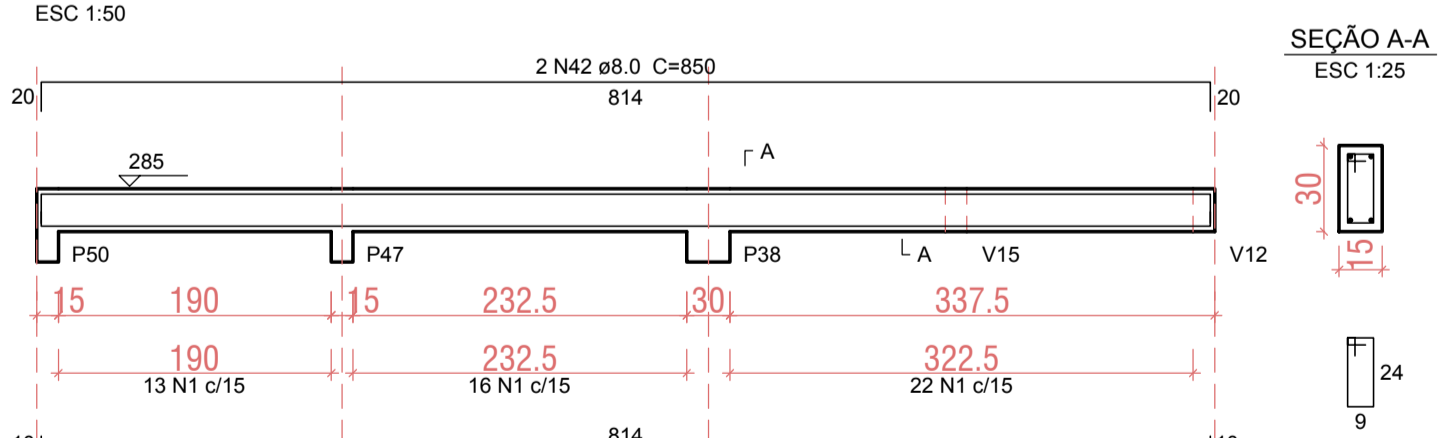
V53
ESC 1:50



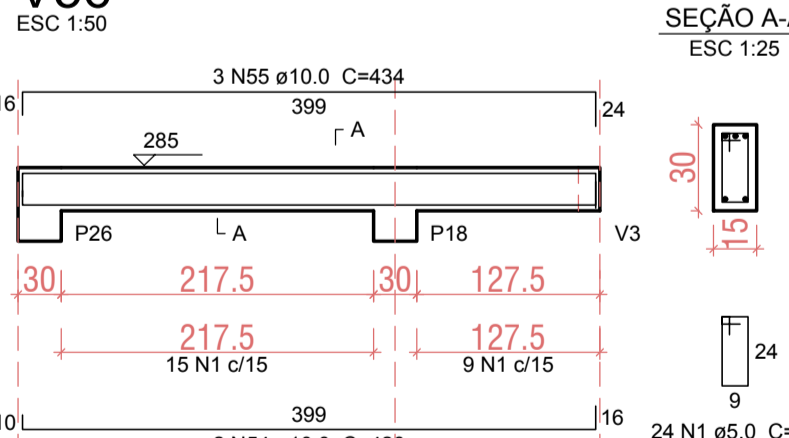
V54
ESC 1:50



V55
ESC 1:50



V56
ESC 1:50

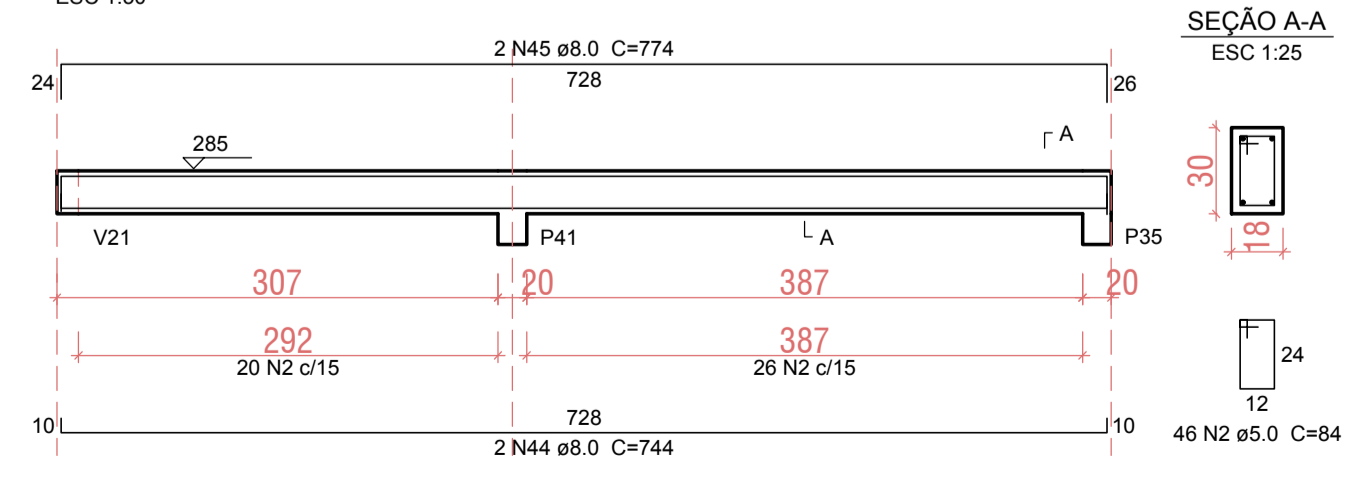


Resumo do aço

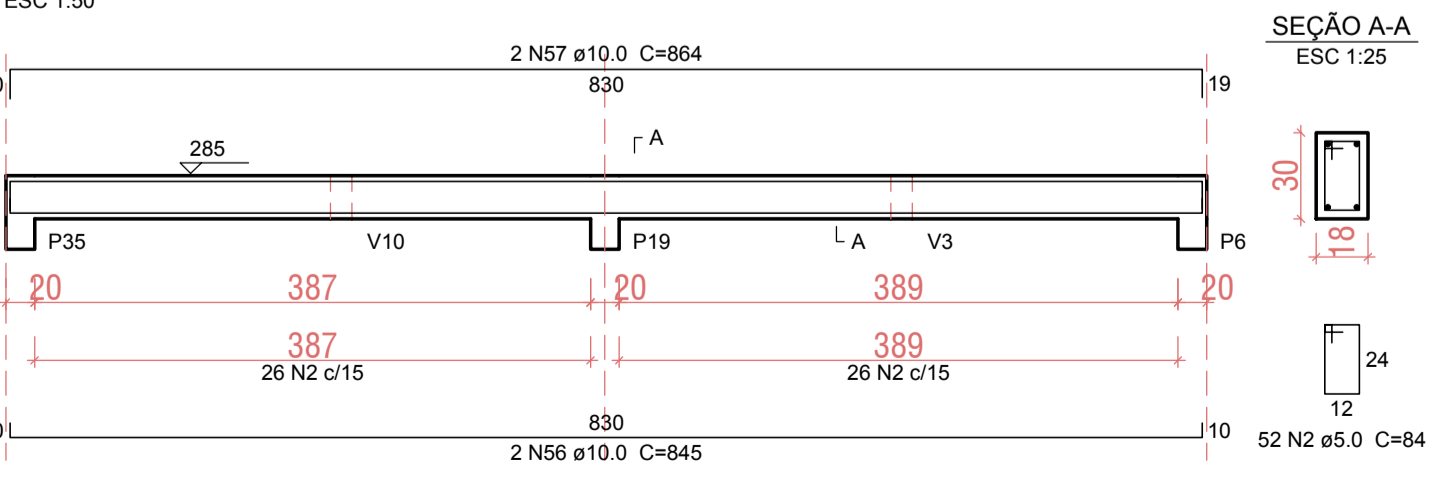
AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	8.0	593.1	257.4
	10.0	104.5	70.9
CA60	5.0	784	132.9
PESO TOTAL (kg)			
CA50		328.3	
CA60		132.9	

Volume de concreto (C-25) = 7.6 m³
Área de forma = 123.39 m²

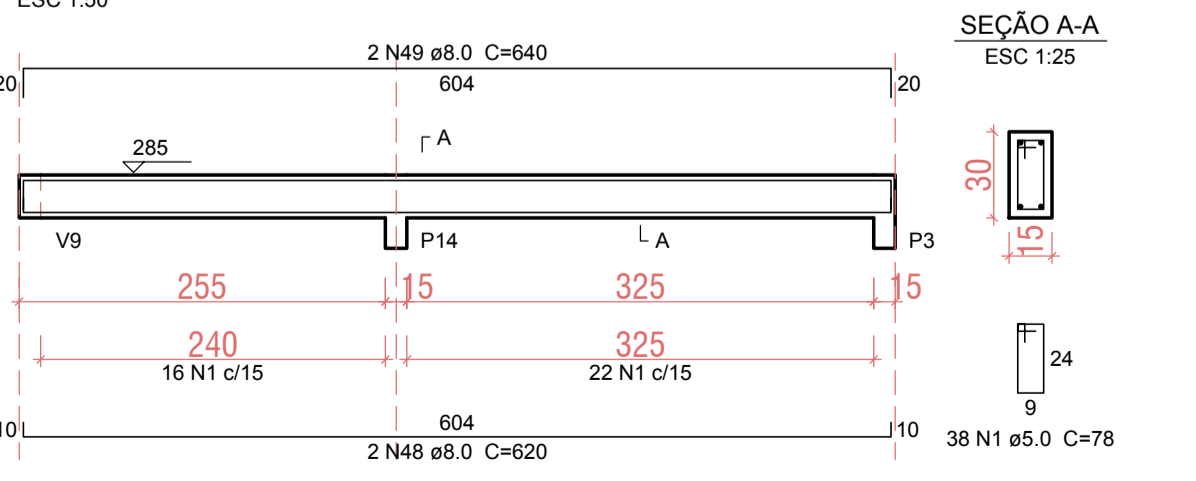
V58
ESC 1:50



V59
ESC 1:50



V39
ESC 1:50



PREFEITURA MUNICIPAL DE PARANAGUÁ

TÍTULO	PROJETO ESTRUTURAL				
OBJETO	U.B.S. PRAIA DE ENCANTADAS - ILHA DO MEL				
CONTÉUDO	VIGAS DE COBERTURA 2				
PROJ. TRANSFERENTE	PROJ. EXEC.:				
RUY JOSÉ RIBEIRO	MUNICÍPIO DE PARANAGUÁ				
CREA: 18.006-D					
DATA	FECHA	INDICADA	SECUND	FECHA COBERTURA	PÁGINA
JULHO/2017			R/R	405,95 m²	09/11