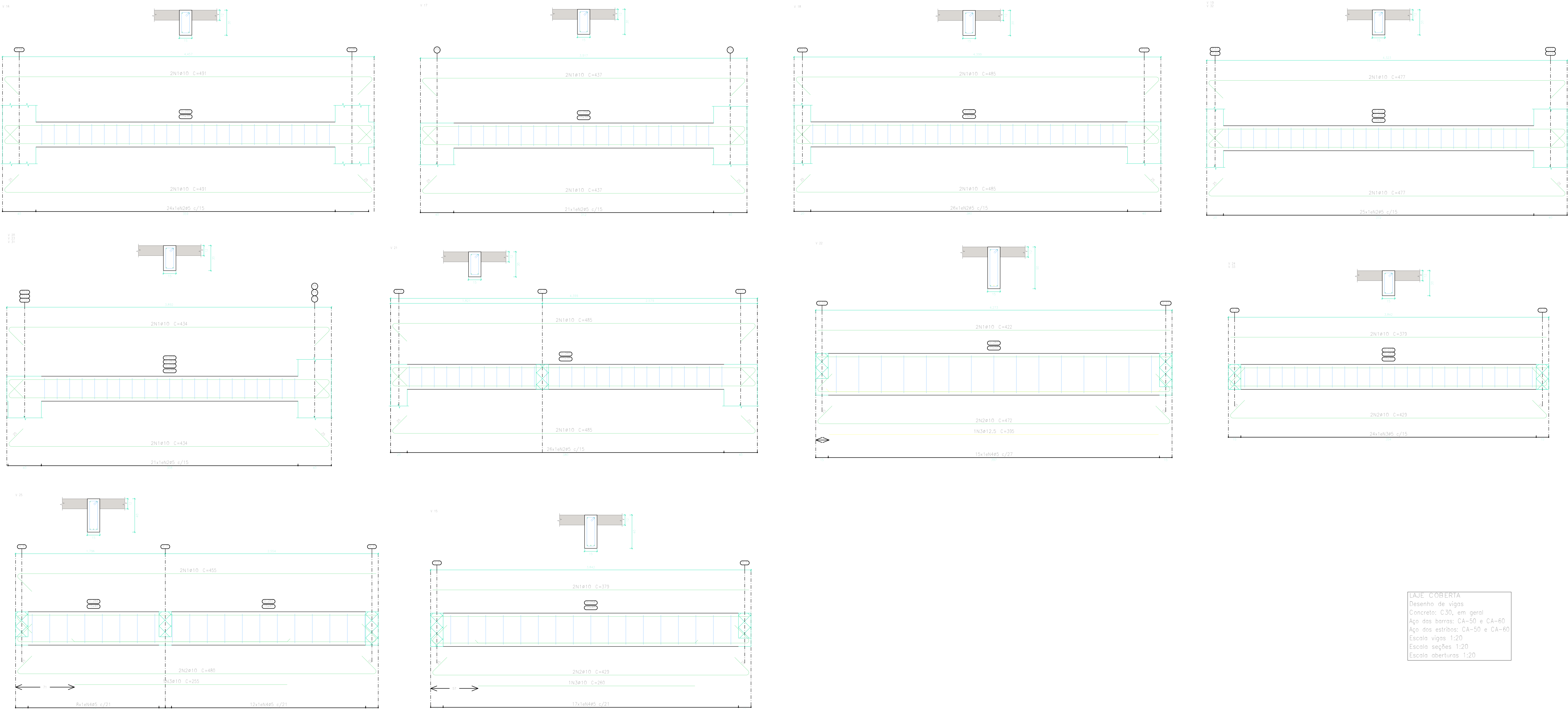




LAJE COBERTA
Desenho de vigas
Concreto: C-30, em geral
Aço das barras: CA-50 e CA-60
Aço dos estribos: CA-50 e CA-60
Escala seções 1:20
Escala aberturas 1:20

Elemento	Pos.	Diam.	Q.	Esquema (cm)	Comp. (cm)	Vol. (cm³)	CA-50 (kg)	CA-60 (kg)
V-11	1	ø10	2		1000	2180	1.4	
	2	ø10	2		995	1995	1.23	
	3	ø10	1		125	125	0.8	
	4	ø16	1		230	230	3.4	
	5	ø20	1		360	360	5.4	
	6	ø12.5	1		200	200	1.9	
	7	ø10	2		454	955	5.6	
	8	ø10	2		640	1280	7.9	
	9	ø10	2		914	1848	12.0	
	10	ø16	1		130	130	0.8	
	11	ø10	1		285	285	1.8	
	12	ø10	1		230	230	1.4	
	13	ø6.3	2		180	360	0.9	
	14	ø5	86		78	6708		10.5
	15	ø5	28		98	2744		4.3
Total+10%							81.2	16.3
V-12	1	ø10	4		214	1094	6.8	
	2	ø5	14		78	1092		1.7
Total+10%							7.5	1.9
V-14	1	ø10	2		1078	2156	13.3	
	2	ø10	2		555	1110	6.8	
	3	ø10	2		1095	2190	13.5	
	4	ø10	2		580	1160	7.1	
	5	ø10	1		130	130	0.8	
	6	ø10	1		125	125	0.8	
	7	ø5	91		78	7098		11.1
	Total+10%						46.5	12.9
V-15	1	ø10	2		379	758	4.7	
	2	ø10	2		429	858	5.3	
	3	ø10	1		280	280	1.8	
	4	ø5	17		98	1664		2.6
Total+10%							12.8	2.9
V-16	1	ø10	4		401	1604	12.1	
	2	ø5	24		78	1872		2.9
Total+10%							13.3	3.2
V-17	1	ø10	4		437	1748	10.8	
	2	ø5	21		78	1638		2.8
Total+10%							11.9	2.9
V-18	1	ø10	4		485	1940	12.0	
	2	ø5	28		78	2028		3.0
Total+10%							13.2	3.5
V-19+V-32	1	ø10	4		427	1698	11.8	
	2	ø5	25		78	1950		3.1
Total+10%							13.0	3.4
V-20+V-23+V-31	1	ø10	4		434	1736	10.7	
	2	ø5	21		78	1638		2.8
Total+10%							11.8	2.9
V-21	1	ø10	4		480	1920	12.0	
	2	ø5	28		78	2028		3.0
Total+10%							13.2	3.5
V-22	1	ø10	2		422	844	5.2	
	2	ø10	2		472	944	5.8	
	3	ø12.5	1		395	395	3.8	
	4	ø5	15		118	1770		2.8
Total+10%							16.3	3.1
V-24+V-33	1	ø10	2		379	758	4.7	
	2	ø10	2		429	858	5.3	
	3	ø5	24		78	1872		2.9
Total+10%							11.0	3.2
V-25	1	ø10	2		455	910	5.6	
	2	ø10	2		480	960	5.9	
	3	ø10	1		205	205	1.6	
	4	ø5	20		98	1960		3.1
Total+10%							14.4	3.4
							ø5: 10.0	14.8
							ø6.3: 1.0	10.0
							ø10: 289.0	10.0
							ø12.5: 6.3	10.0
							ø16: 10.4	0.0
							ø20: 7.0	0.0
							Total:	313.7

