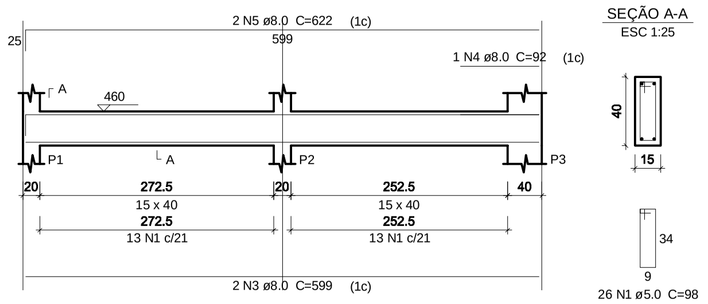
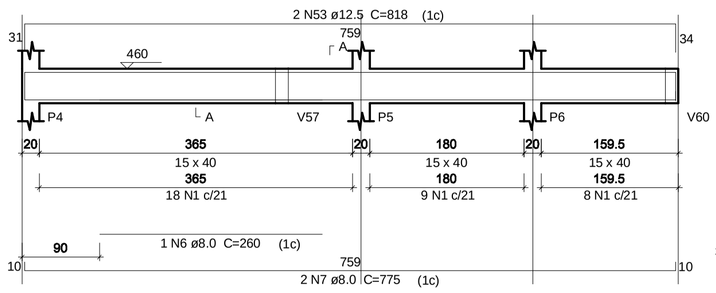
V49
ESC 1:50

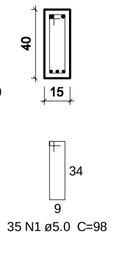


SEÇÃO A-A
ESC 1:25

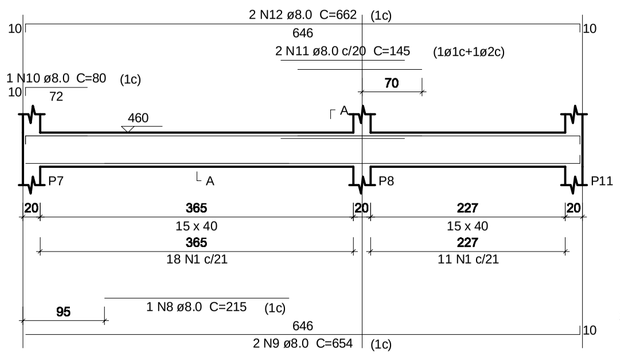
V50
ESC 1:50



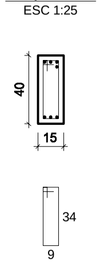
SEÇÃO A-A
ESC 1:25



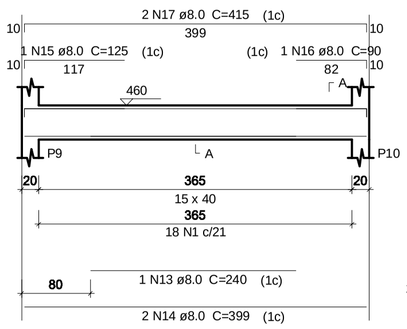
V51
ESC 1:50



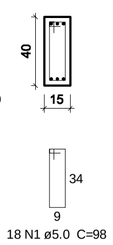
SEÇÃO A-A
ESC 1:25



V52
ESC 1:50



SEÇÃO A-A
ESC 1:25

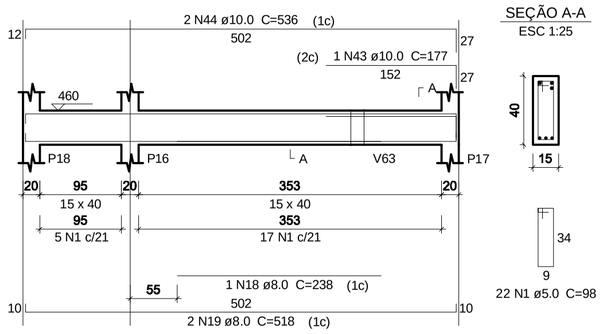


Relação do aço

V49	V50	V51
V52	V53	V54
V55	V56	V57
V58	V59	V60
V61	V62	V63
V64		

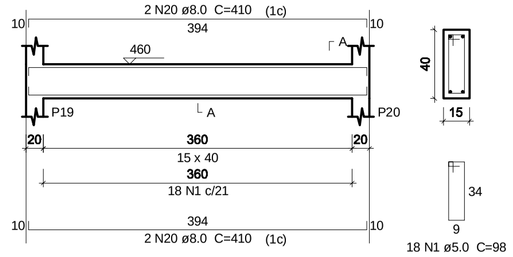
AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	444	98	43512
	2	5.0	2	255	510
CA50	3	8.0	2	599	1198
	4	8.0	1	92	92
	5	8.0	2	622	1244
	6	8.0	3	260	780
	7	8.0	2	775	1550
	8	8.0	1	215	215
	9	8.0	2	654	1308
	10	8.0	1	80	80
	11	8.0	2	145	290
	12	8.0	2	662	1324
	13	8.0	2	240	480
	14	8.0	2	399	798
	15	8.0	1	125	125
	16	8.0	1	90	90
	17	8.0	2	415	830
	18	8.0	1	238	238
	19	8.0	2	518	1036
	20	8.0	4	410	1640
	21	8.0	2	1182	2364
	22	8.0	1	235	235
	23	8.0	2	772	1544
	24	8.0	2	430	860
	25	8.0	1	112	112
	26	8.0	1	115	115
	27	8.0	2	452	904
	28	8.0	1	230	230
	29	8.0	2	424	848
	30	8.0	2	802	1604
	31	8.0	2	415	830
	32	8.0	2	160	320
	33	8.0	1	228	228
	34	8.0	2	1146	2292
	35	8.0	2	794	1588
	36	8.0	1	223	223
	37	8.0	4	387	1548
	38	8.0	2	85	170
	39	8.0	4	420	1680
	40	8.0	2	267	534
	41	8.0	2	297	594
	42	8.0	1	213	213
	43	10.0	1	177	177
	44	10.0	2	536	1072
	45	10.0	1	548	548
	46	10.0	2	1092	2184
	47	10.0	2	187	374
	48	10.0	2	477	954
	49	10.0	1	573	573
	50	10.0	2	1185	2370
	51	10.0	1	185	185
	52	10.0	2	817	1634
	53	12.5	2	818	1636
	54	12.5	2	793	1586

V53
ESC 1:50



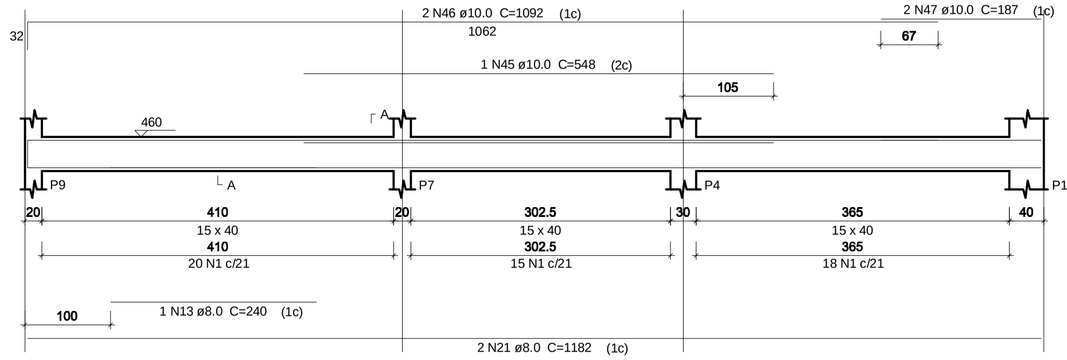
SEÇÃO A-A
ESC 1:25

V54
ESC 1:50

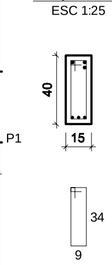


SEÇÃO A-A
ESC 1:25

V55
ESC 1:50



SEÇÃO A-A
ESC 1:25

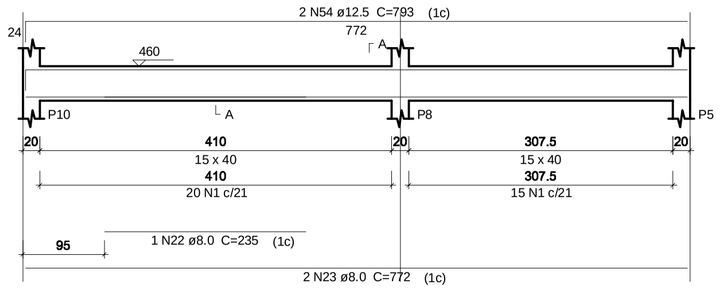


Resumo do aço

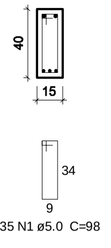
AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	8.0	323.6	140.4
	10.0	100.8	68.3
	12.5	32.3	34.1
CA60	5.0	440.3	74.6
PESO TOTAL (kg)			
CA50	242.9		
CA60	74.6		

Volume de concreto (C-30) = 5.98 m³
Área de forma = 94.69 m²

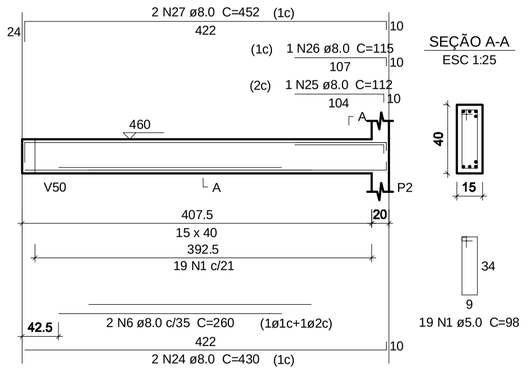
V56
ESC 1:50



SEÇÃO A-A
ESC 1:25

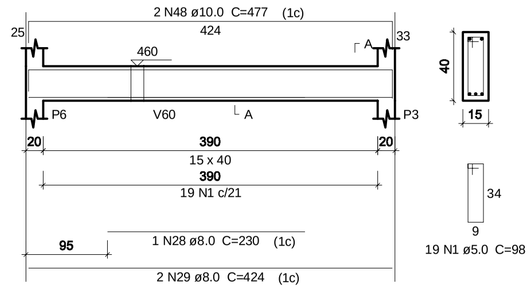


V57
ESC 1:50



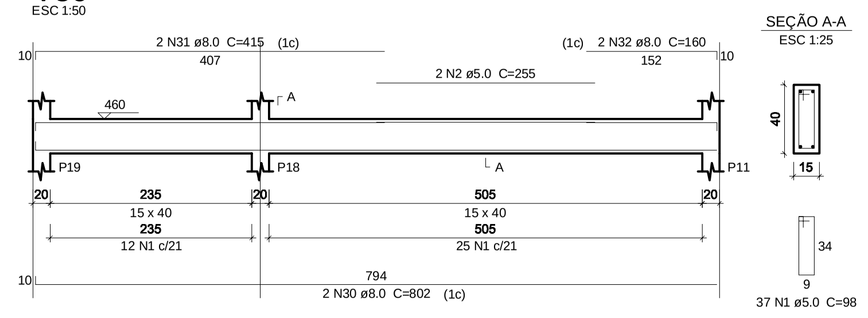
SEÇÃO A-A
ESC 1:25

V58
ESC 1:50



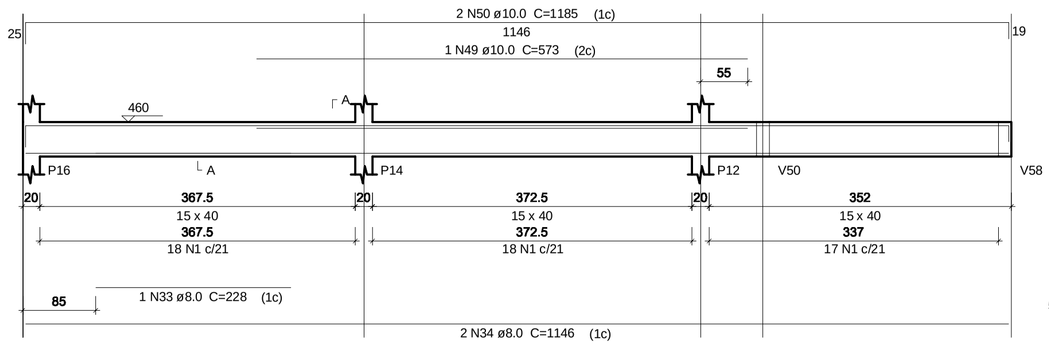
SEÇÃO A-A
ESC 1:25

V59
ESC 1:50

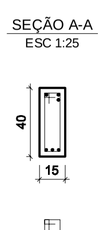


SEÇÃO A-A
ESC 1:25

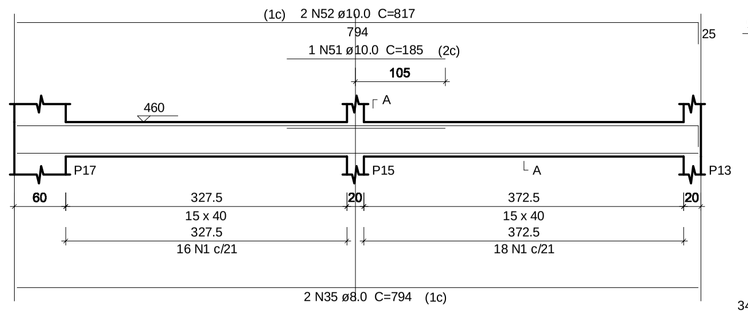
V60
ESC 1:50



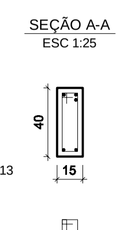
SEÇÃO A-A
ESC 1:25



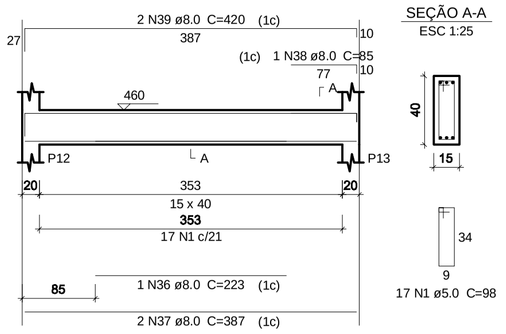
V61
ESC 1:50



SEÇÃO A-A
ESC 1:25

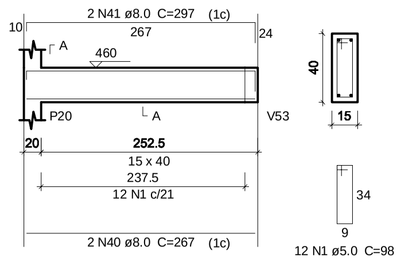


V62
ESC 1:50



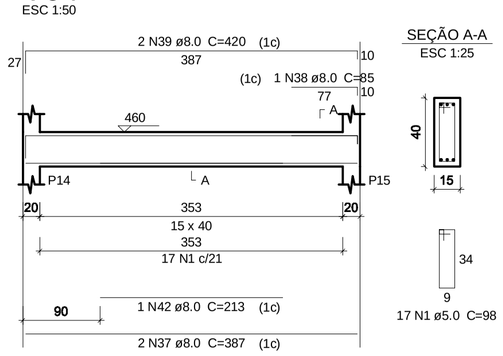
SEÇÃO A-A
ESC 1:25

V63
ESC 1:50



SEÇÃO A-A
ESC 1:25

V64
ESC 1:50



SEÇÃO A-A
ESC 1:25

DESCRIÇÃO	DATA	EXEC.	VERIF.	APROV.

CONTRATADA:
VIAVOZ LTDA

CONTRATO Nº

RT: SINVAL LADEIRA — REG. CREA: 28.498/D
PROJ.: ROGER WILLIAN ROSA — REG. CREA: 105.413/D
ASS.:
PROJ.:
REG. CREA:
ASS.:

viavoz

CONTRATANTE:
PREFEITURA MUNICIPAL DE JOÃO NEIVA

PROGRAMA:
REFORMA E AMPLIAÇÃO DA ANTIGA EMEI HILDA BRITO

MUNICÍPIO/ÁREA:
JOÃO NEIVA / ES

TÍTULO:
PROJETO ESTRUTURAL
DETALHE
LAVANDERIA / VESTIÁRIOS – CRAS
VIGAS V49 ATÉ V64

DATA: DEZEMBRO/2018
ESCALA: INDICADA
ARQUIVO:
PRANCHA: 4.25