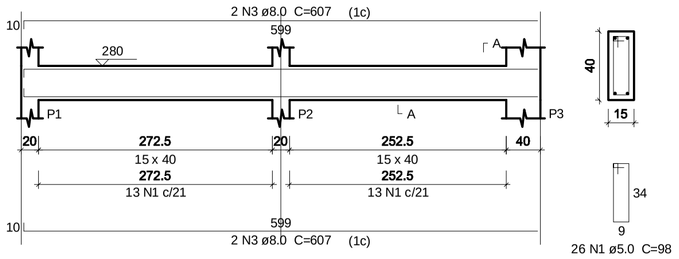
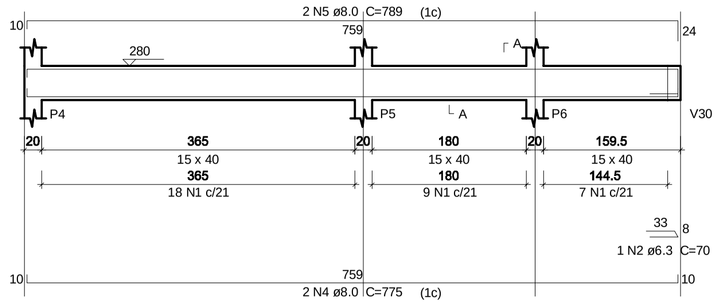
V18
ESC 1:50

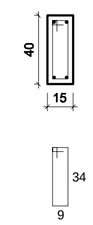


SEÇÃO A-A
ESC 1:25

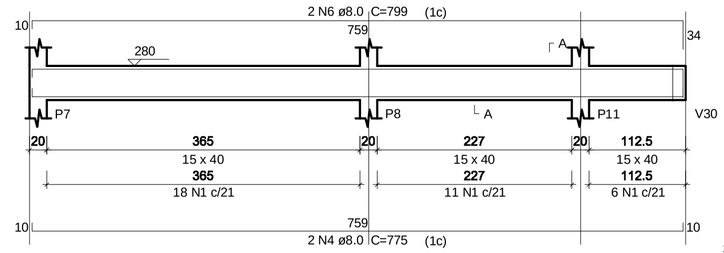
V19
ESC 1:50



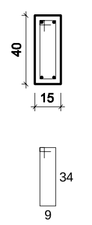
SEÇÃO A-A
ESC 1:25



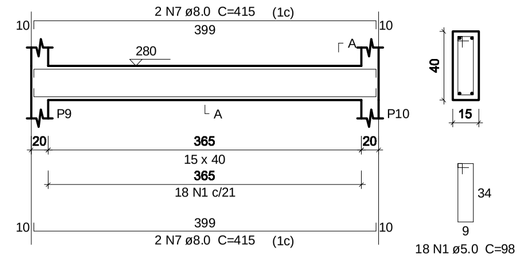
V20
ESC 1:50



SEÇÃO A-A
ESC 1:25

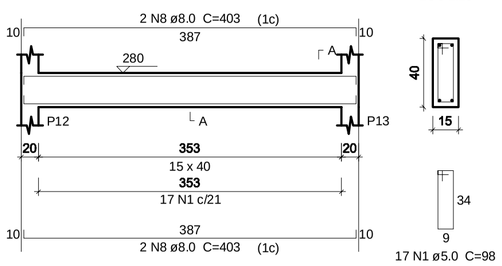


V21
ESC 1:50



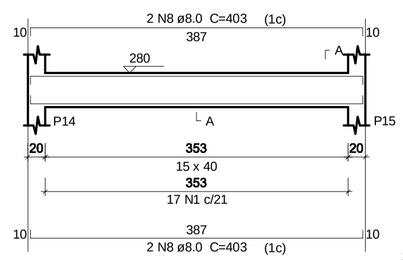
SEÇÃO A-A
ESC 1:25

V22
ESC 1:50

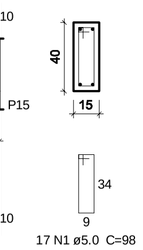


SEÇÃO A-A
ESC 1:25

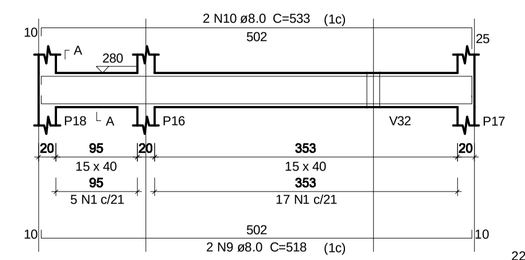
V23
ESC 1:50



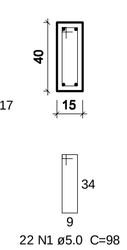
SEÇÃO A-A
ESC 1:25



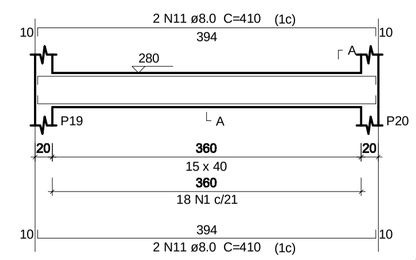
V24
ESC 1:50



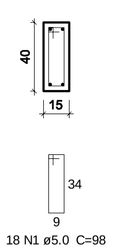
SEÇÃO A-A
ESC 1:25



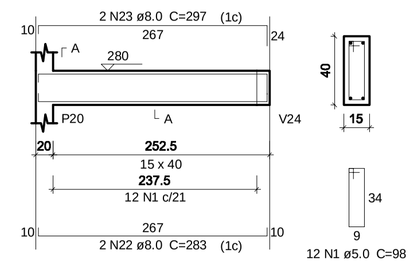
V25
ESC 1:50



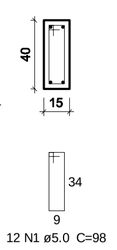
SEÇÃO A-A
ESC 1:25



V32
ESC 1:50



SEÇÃO A-A
ESC 1:25

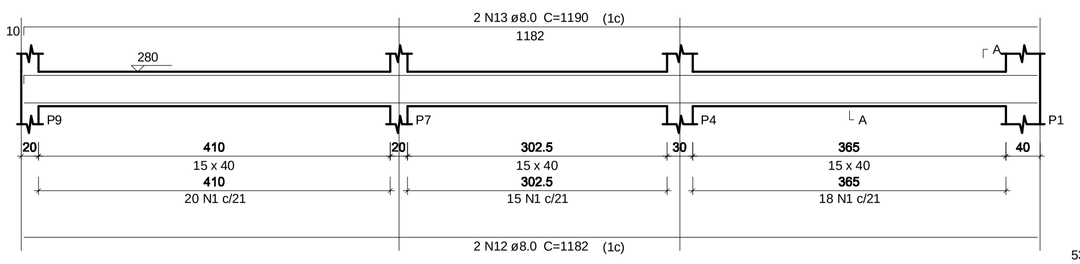


Relação do aço

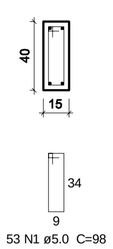
V18	V19	V20
V21	V22	V23
V24	V25	V26
V27	V28	V29
V30	V31	V32

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	416	98	40768
CA50	2	6.3	1	70	70
	3	8.0	4	607	2428
	4	8.0	4	775	3100
	5	8.0	2	789	1578
	6	8.0	2	799	1598
	7	8.0	4	415	1660
	8	8.0	8	403	3224
	9	8.0	2	518	1036
	10	8.0	2	533	1066
	11	8.0	4	410	1640
	12	8.0	2	1182	2364
	13	8.0	2	1190	2380
	14	8.0	2	780	1560
	15	8.0	2	788	1576
	16	8.0	4	440	1760
	17	8.0	4	802	3208
	18	8.0	2	810	1620
	19	8.0	2	872	1744
	20	8.0	2	904	1808
	21	8.0	2	794	1588
	22	8.0	2	283	566
	23	8.0	2	297	594

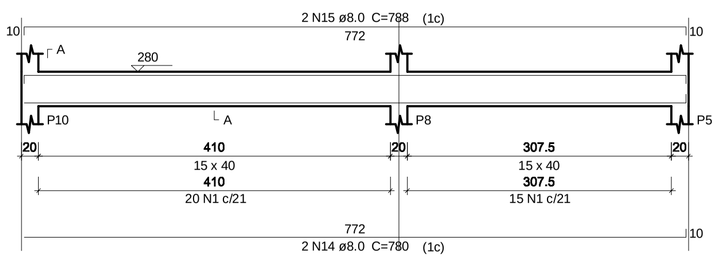
V26
ESC 1:50



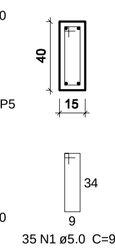
SEÇÃO A-A
ESC 1:25



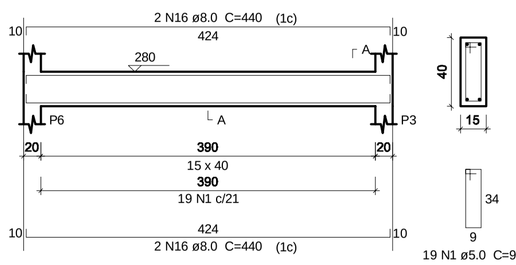
V27
ESC 1:50



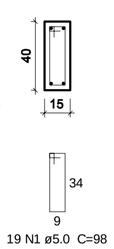
SEÇÃO A-A
ESC 1:25



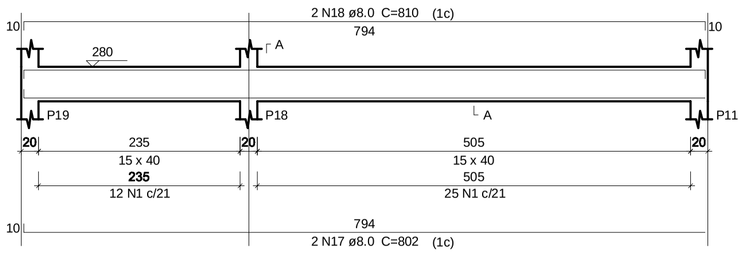
V28
ESC 1:50



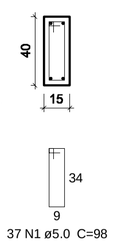
SEÇÃO A-A
ESC 1:25



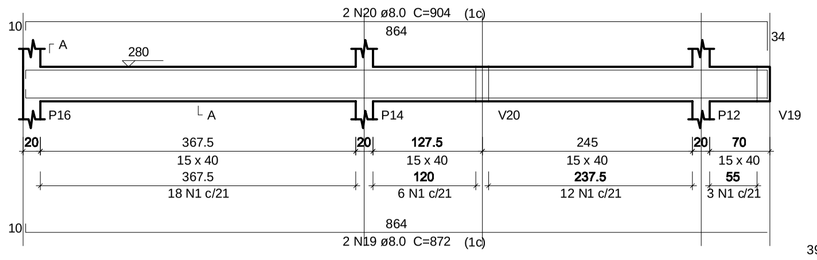
V29
ESC 1:50



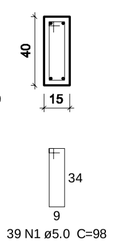
SEÇÃO A-A
ESC 1:25



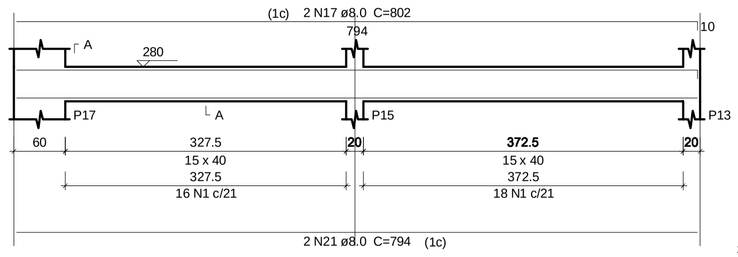
V30
ESC 1:50



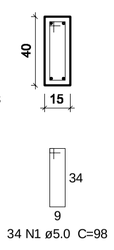
SEÇÃO A-A
ESC 1:25



V31
ESC 1:50



SEÇÃO A-A
ESC 1:25



Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	6.3	0.7	0.2
	8.0	381	165.4
CA60	5.0	407.7	69.1

PESO TOTAL (kg)	
CA50	165.5
CA60	69.1

Volume de concreto (C-30) = 5.62 m³
Área de forma = 89.02 m²

	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.:

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 V18 ATÉ V32

DATA: DEZEMBRO/2018
ESCALA: INDICADA
PRANCHA: 4.23
ARQUIVO: