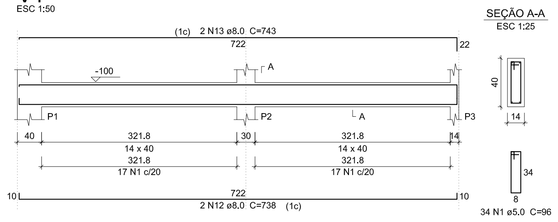
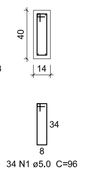
V1
ESC 1:50

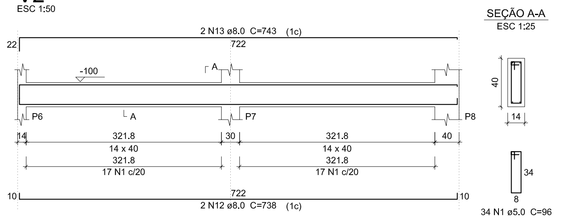


SEÇÃO A-A
ESC 1:25



34 N1 ø5,0 C=96

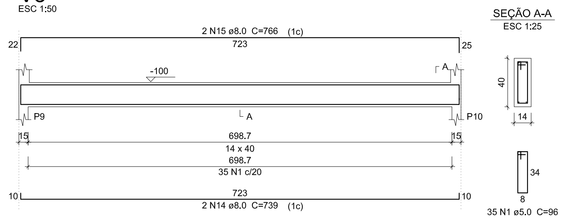
V2
ESC 1:50



SEÇÃO A-A
ESC 1:25

34 N1 ø5,0 C=96

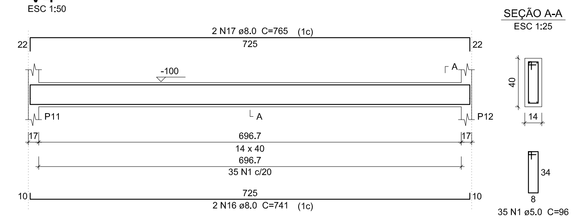
V3
ESC 1:50



SEÇÃO A-A
ESC 1:25

35 N1 ø5,0 C=96

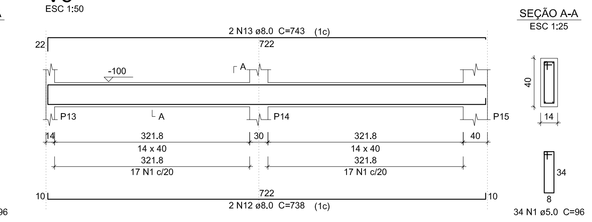
V4
ESC 1:50



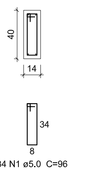
SEÇÃO A-A
ESC 1:25

35 N1 ø5,0 C=96

V5
ESC 1:50

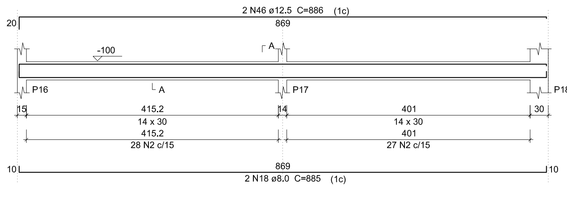


SEÇÃO A-A
ESC 1:25

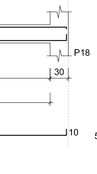


34 N1 ø5,0 C=96

V6
ESC 1:50

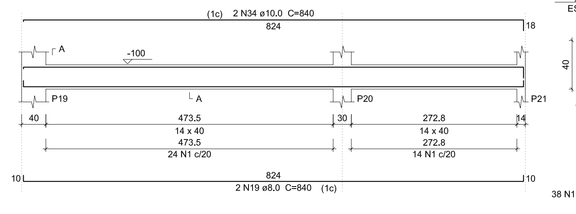


SEÇÃO A-A
ESC 1:25

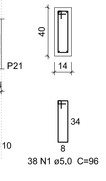


55 N2 ø5,0 C=76

V7
ESC 1:50

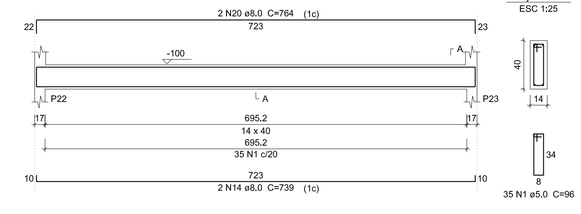


SEÇÃO A-A
ESC 1:25

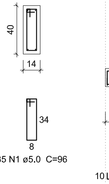


38 N1 ø5,0 C=96

V8
ESC 1:50

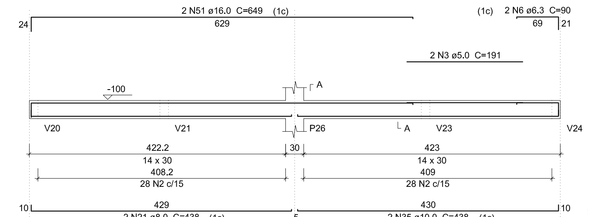


SEÇÃO A-A
ESC 1:25

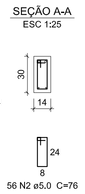


35 N1 ø5,0 C=96

V9
ESC 1:50

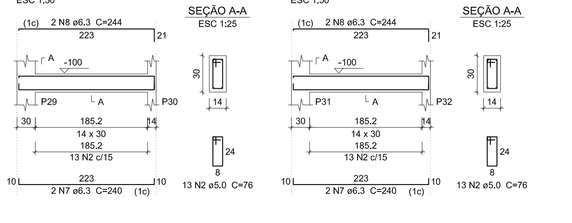


SEÇÃO A-A
ESC 1:25



56 N2 ø5,0 C=76

V10
ESC 1:50



SEÇÃO A-A
ESC 1:25

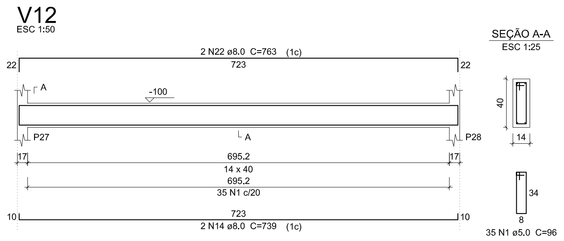
13 N2 ø5,0 C=76

V11
ESC 1:50

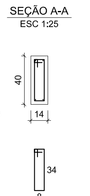
SEÇÃO A-A
ESC 1:25

13 N2 ø5,0 C=76

V12
ESC 1:50

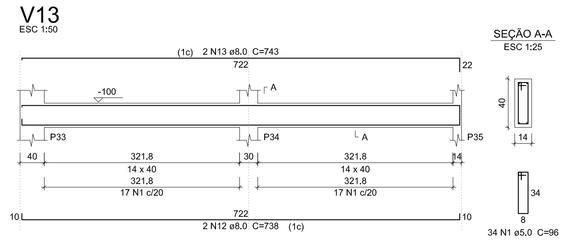


SEÇÃO A-A
ESC 1:25



35 N1 ø5,0 C=96

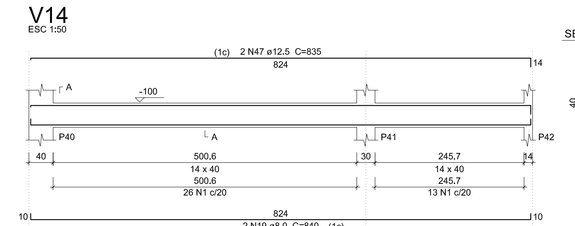
V13
ESC 1:50



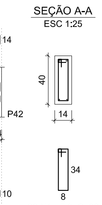
SEÇÃO A-A
ESC 1:25

34 N1 ø5,0 C=96

V14
ESC 1:50

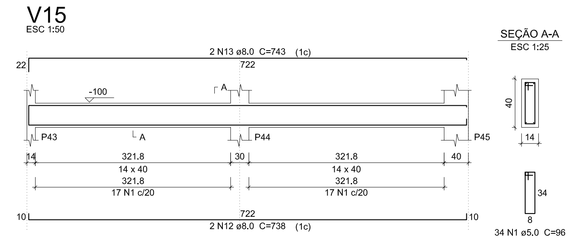


SEÇÃO A-A
ESC 1:25



39 N1 ø5,0 C=96

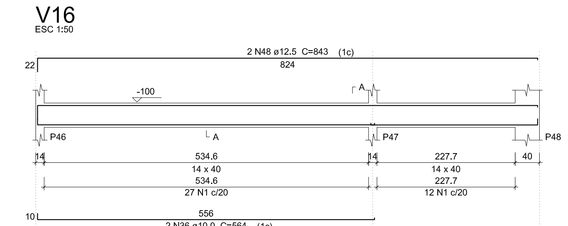
V15
ESC 1:50



SEÇÃO A-A
ESC 1:25

34 N1 ø5,0 C=96

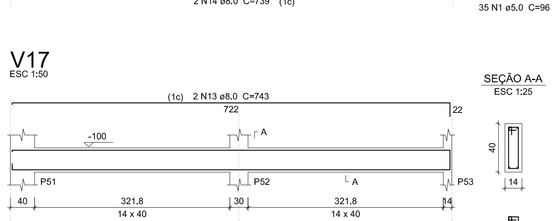
V16
ESC 1:50



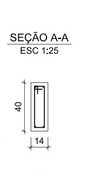
SEÇÃO A-A
ESC 1:25

39 N1 ø5,0 C=96

V17
ESC 1:50

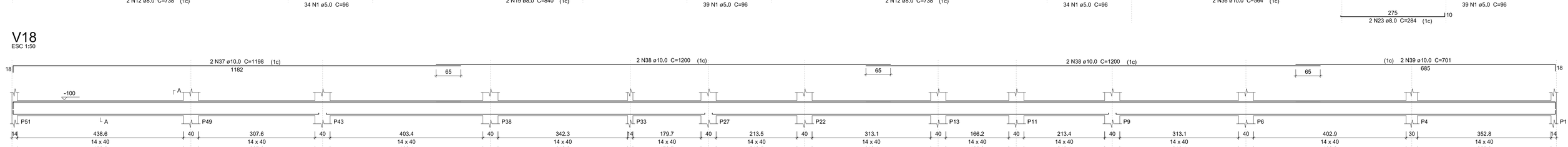


SEÇÃO A-A
ESC 1:25

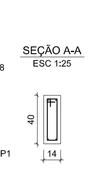


34 N1 ø5,0 C=96

V18
ESC 1:50

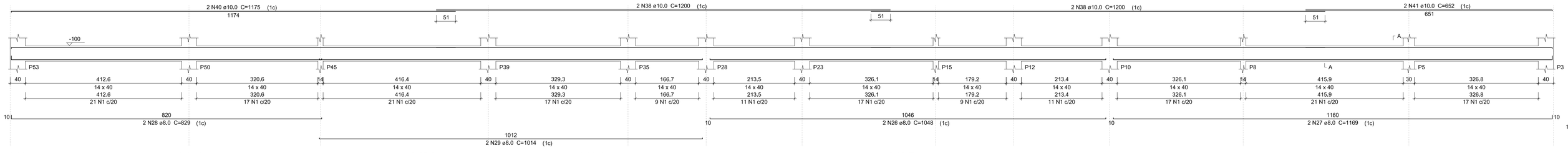


SEÇÃO A-A
ESC 1:25

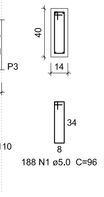


188 N1 ø5,0 C=96

V19
ESC 1:50

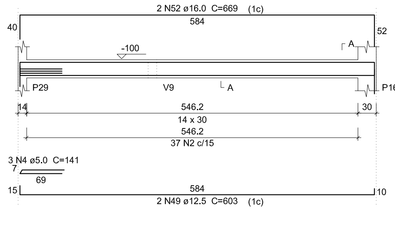


SEÇÃO A-A
ESC 1:25

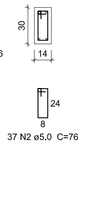


188 N1 ø5,0 C=96

V20
ESC 1:50

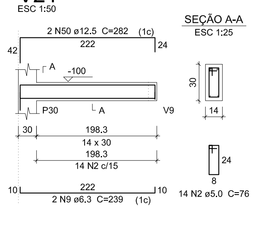


SEÇÃO A-A
ESC 1:25

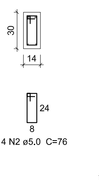


37 N2 ø5,0 C=76

V21
ESC 1:50

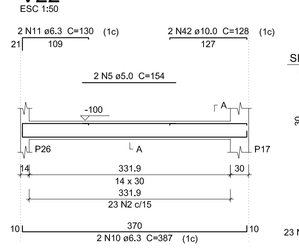


SEÇÃO A-A
ESC 1:25

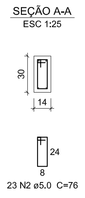


14 N2 ø5,0 C=76

V22
ESC 1:50

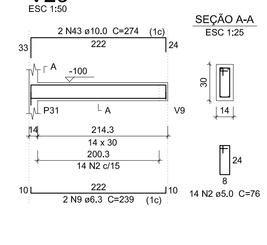


SEÇÃO A-A
ESC 1:25



23 N2 ø5,0 C=76

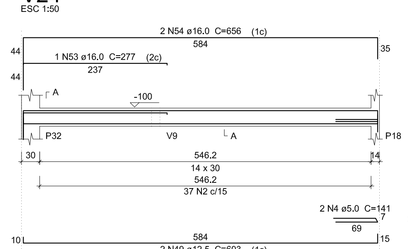
V23
ESC 1:50



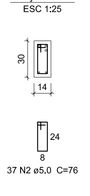
SEÇÃO A-A
ESC 1:25

14 N2 ø5,0 C=76

V24
ESC 1:50

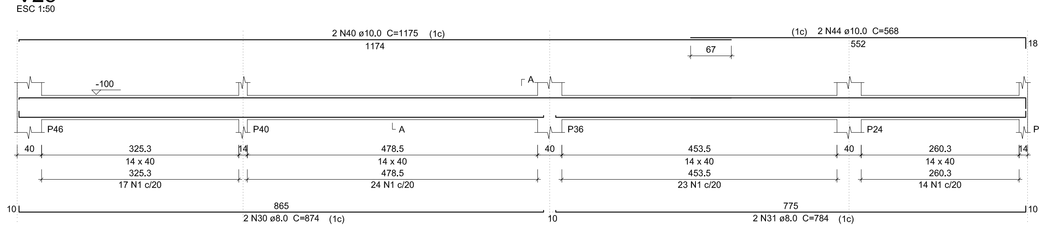


SEÇÃO A-A
ESC 1:25

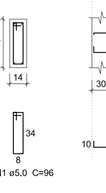


37 N2 ø5,0 C=76

V25
ESC 1:50

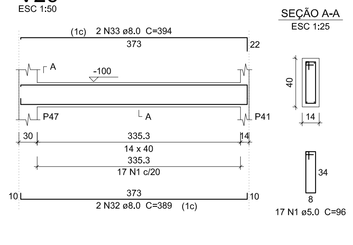


SEÇÃO A-A
ESC 1:25



78 N1 ø5,0 C=96

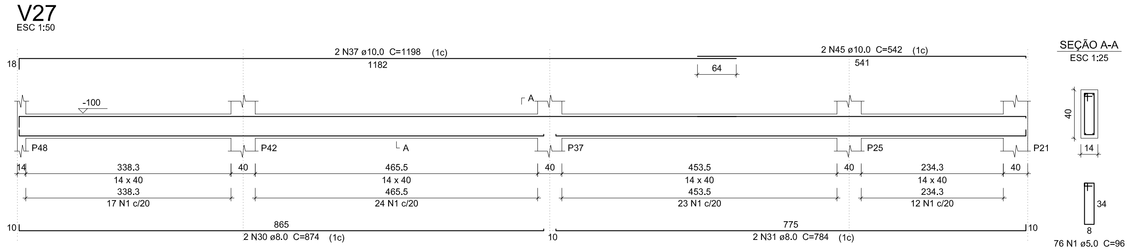
V26
ESC 1:50



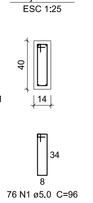
SEÇÃO A-A
ESC 1:25

17 N1 ø5,0 C=96

V27
ESC 1:50



SEÇÃO A-A
ESC 1:25



76 N1 ø5,0 C=96

Relação do aço

V1	V2	V3
V4	V5	V6
V7	V8	V9
V10	V11	V12
V13	V14	V15
V16	V17	V18
V19	V20	V21
V22	V23	V24
V25	V26	V27

AÇO	N	DIAM	Q	UNIT (cm)	C.TOTAL (cm)
CA60	1	5,0	1007	96	96672
	2	5,0	262	76	19912
	3	5,0	2	191	382
	4	5,0	5	141	705
	5	5,0	2	154	308
CA50	6	6,3	2	90	180
	7	6,3	4	240	960
	8	6,3	4	244	976
	9	6,3	4	239	956
	10	6,3	2	387	774
	11	6,3	2	130	260
	12	8,0	12	738	8856
	13	8,0	12	743	8916
	14	8,0	6	739	4434
	15	8,0	2	766	1532
	16	8,0	2	741	1482
	17	8,0	2	765	1530
	18	8,0	2	885	1770
	19	8,0	4	840	3360
	20	8,0	2	764	1528
	21	8,0	2	438	876
	22	8,0	2	763	1526
	23	8,0	2	284	568
	24	8,0	2	816	1632
	25	8,0	2	1001	2002
	26	8,0	4	1048	4192
	27	8,0	4	1169	4676
	28	8,0	2	829	1658
	29	8,0	2	1014	2028
	30	8,0	4	874	3496
	31	8,0	4	784	3136
	32	8,0	2	389	778
	33	8,0	2	394	788
	34	10,0	2	840	1680
	35	10,0	2	438	876
	36	10,0	2	564	1128
	37	10,0	4	1198	4792
	38	10,0	8	1200	9600
	39	10,0	2	701	1402
	40	10,0	4	1175	4700
	41	10,0	2	652	1304
	42	10,0	2	128	256
	43	10,0	2	274	548
	44	10,0	2	568	1136
	45	10,0	2	542	1084
	46	12,5	2	886	1772
	47	12,5	2	835	1670
	48	12,5	2	843	1686
	49	12,5	4	603	2412
	50	12,5	2	282	564
	51	16,0	2	649	1298
	52	16,0	2	669	1338
	53	16,0	1	277	277
	54	16,0	2	656	1312

Resumo do aço

AÇO	DIAM	C.TOTAL (m)	PESO + 10 % (kg)
CA50	6,3	41,1	11,1
	8,0	607,7	263,7
	10,0	285,1	193,3
	12,5	81,1	85,9
	16,0	42,3	73,4
CA60	5,0	1179,8	200
PESO TOTAL			
CA50	627,3		
CA60	200		

Vol. de concreto total (C-30) = 13,89 m³
Área de forma total = 234,67 m²

GOVERNO DO ESTADO DO PIAUÍ

SEDUC - SECRETARIA DE ESTADO DA EDUCAÇÃO

DEPARTAMENTO: GERÊNCIA DE ARQUITETURA E ENGENHARIA

DESENHO: EST1

TÍTULO DO PROJETO: PROJETO DE CONSTRUÇÃO - U.E AFONSO MAFRENSE

ENDEREÇO DO SERVIÇO: Avenida 12 de outubro, 1995, Centro

FRANCHA: 01/01

TÍTULO DO DESENHO: DETALHAMENTO DE VIGAS BALDRAME

ARQUITETO(A):

MUNICÍPIO: Altos-PI

ZONA: URBANA

DESENHO:

ESCALA: INDICADA

FASE: PROJETO BÁSICO

DATA: DATA REV.ATUAL

REVISÃO: 01