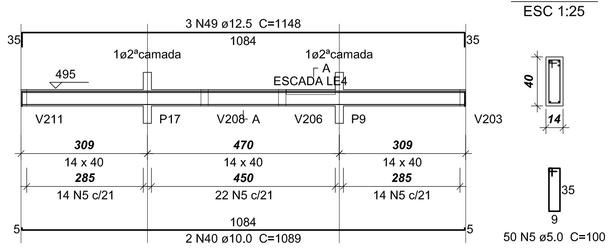
V222 (14 x 40)

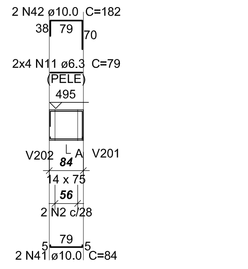
1:75



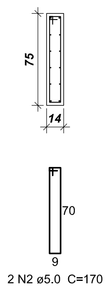
SEÇÃO A-A
ESC 1:25

V224 (14 x 75)

1:75

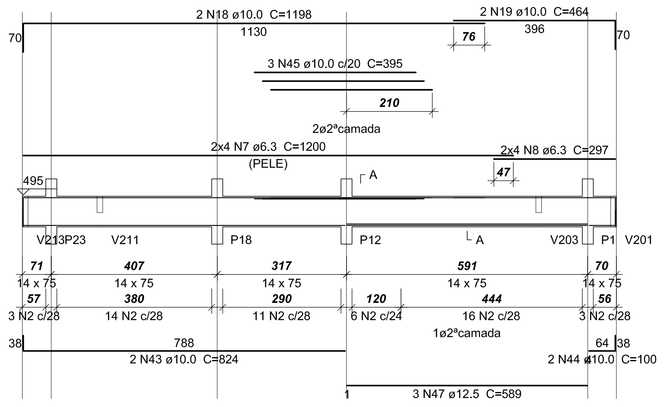


SEÇÃO A-A
ESC 1:25

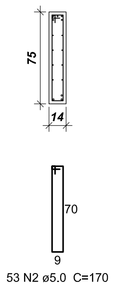


V225 (14 x 75)

1:75

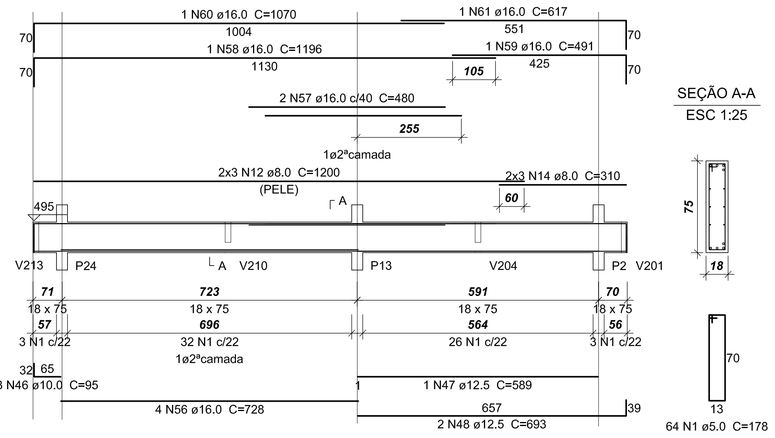


SEÇÃO A-A
ESC 1:25



V226 (18 x 75)

1:75



SEÇÃO A-A
ESC 1:25

Relação do aço

AÇO	N	DIAM	Q	UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	125	178	22250
	2	5.0	158	170	26860
	3	5.0	30	108	3240
	4	5.0	10	180	1800
	5	5.0	98	100	9800
	6	5.0	59	80	4720
CA50	7	6.3	24	1200	28800
	8	6.3	16	297	4752
	9	6.3	8	298	2384
	10	6.3	8	303	2424
	11	6.3	8	79	632
	12	8.0	12	1200	14400
	13	8.0	6	242	1452
	14	8.0	6	310	1860
	15	10.0	4	1014	4056
	16	10.0	2	509	1018
	17	10.0	1	330	330
	18	10.0	6	1198	7188
	19	10.0	6	464	2784
	20	10.0	2	542	1084
	21	10.0	2	153	306
	22	10.0	2	204	408
	23	10.0	3	315	945
	24	10.0	2	902	1804
	25	10.0	1	462	462
	26	10.0	2	1070	2140
	27	10.0	2	207	414
	28	10.0	2	251	502
	29	10.0	2	963	1926
	30	10.0	2	303	606
	31	10.0	2	1130	2260
	32	10.0	2	161	322
	33	10.0	2	154	308
	34	10.0	2	191	382
	35	10.0	2	203	406
	36	10.0	2	224	448
	37	10.0	4	333	1332
	38	10.0	2	173	346
	39	10.0	2	194	388
	40	10.0	2	1089	2178
	41	10.0	2	84	168
	42	10.0	2	182	364
	43	10.0	2	824	1648
	44	10.0	2	100	200
	45	10.0	3	395	1185
	46	10.0	3	95	285
	47	12.5	5	589	2945
	48	12.5	4	693	2772
	49	12.5	3	1148	3444
	50	16.0	4	733	2932
	51	16.0	2	490	980
	52	16.0	1	1196	1196
	53	16.0	1	387	387
	54	16.0	1	1065	1065
	55	16.0	1	518	518
	56	16.0	4	728	2912
	57	16.0	2	480	960
	58	16.0	1	1196	1196
	59	16.0	1	491	491
	60	16.0	1	1070	1070
	61	16.0	1	617	617

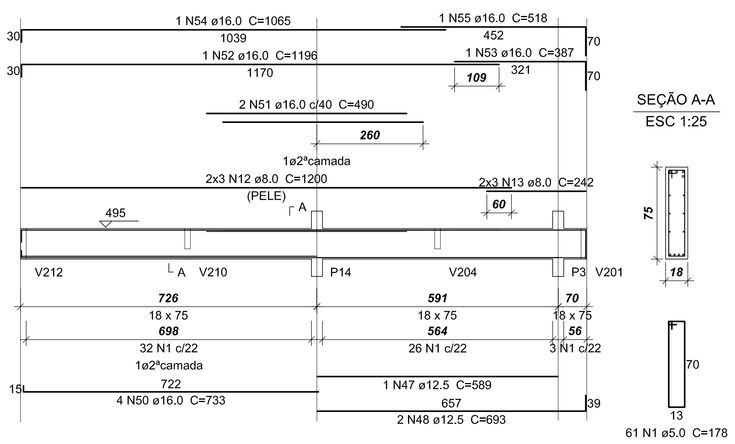
Resumo do aço

AÇO	DIAM	C.TOTAL (m)	PESO (kg)
CA50	6.3	390	95.4
	8.0	177.2	69.9
	10.0	382	235.5
	12.5	91.7	88.3
	16.0	143.3	226.1
CA60	5.0	686.7	105.8
PESO TOTAL			
CA50	715.1		
CA60	105.8		

Vol. de concreto total (C-25) = 11.07 m³
Área de forma total = 162.18 m²

V227 (18 x 75)

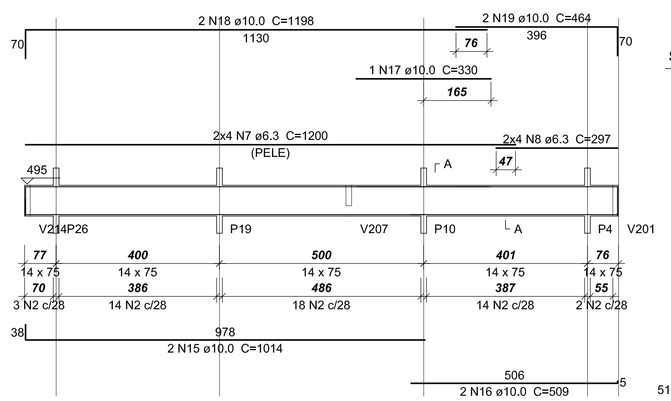
1:75



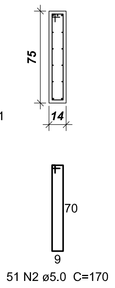
SEÇÃO A-A
ESC 1:25

V228 (14 x 75)

1:75

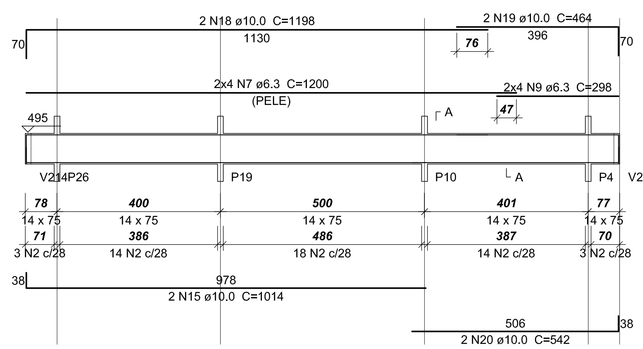


SEÇÃO A-A
ESC 1:25

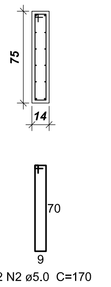


V229 (14 x 75)

1:75

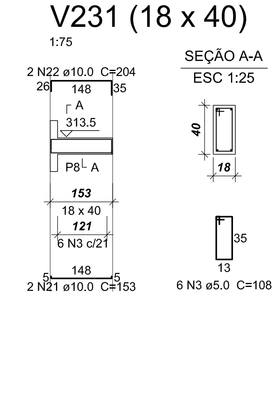


SEÇÃO A-A
ESC 1:25



V231 (18 x 40)

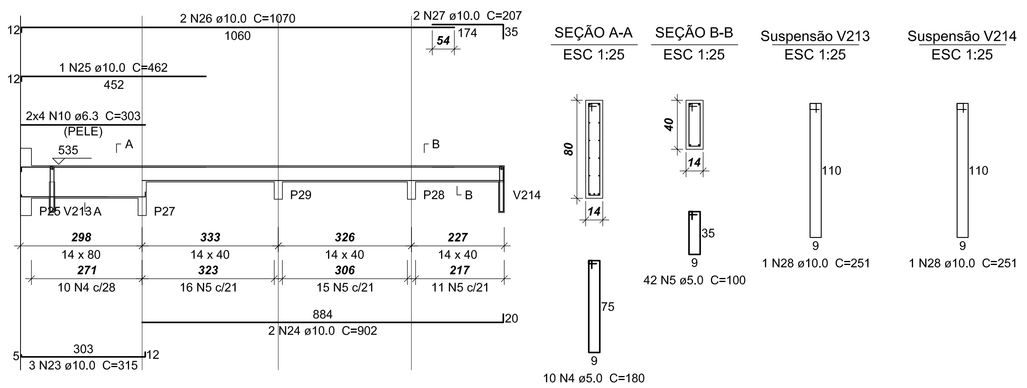
1:75



SEÇÃO A-A
ESC 1:25

V230 (var)

1:75



SEÇÃO A-A
ESC 1:25

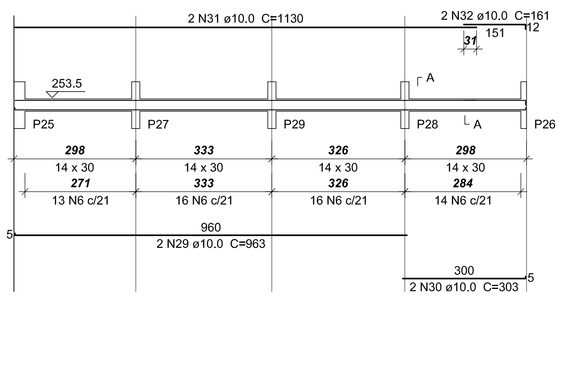
SEÇÃO B-B
ESC 1:25

Suspensão V213
ESC 1:25

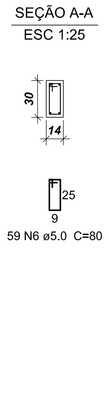
Suspensão V214
ESC 1:25

V232 (14 x 30)

1:75

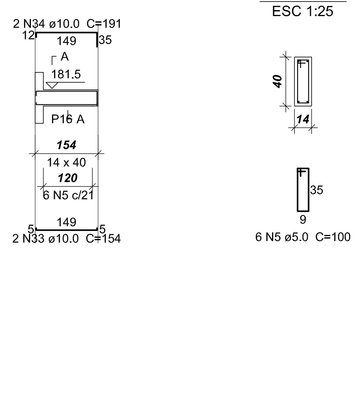


SEÇÃO A-A
ESC 1:25



V233 (14 x 40)

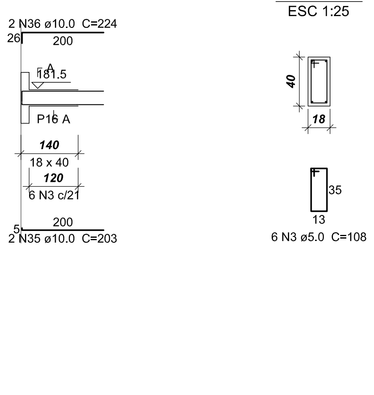
1:75



SEÇÃO A-A
ESC 1:25

V236A (18 x 40)

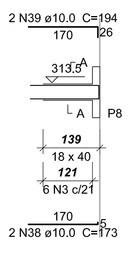
1:75



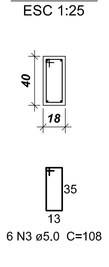
SEÇÃO A-A
ESC 1:25

V236C (18 x 40)

1:75

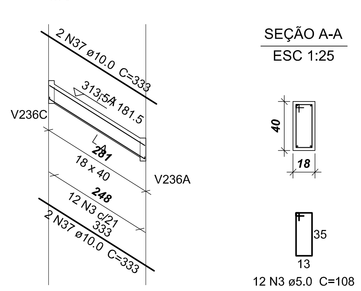


SEÇÃO A-A
ESC 1:25



V236B (18 x 40)

1:75



SEÇÃO A-A
ESC 1:25

V222 V224 V225
V226 V227 V228
V229 V230 V231
V232 V233 V236A
V236B V236C

AS BUILT PROJETOS
Rua Jovino do Rosário, 1564 – Boa Vista
CEP 82560-435 – Curitiba – Paraná

OBRA: CITEC – CAMPUS DIAMANTINA
PROPRIETÁRIO: UNIVERSIDADE DOS VALES DO JEQUITINHONHA E MUCURI – UFVJM
ENDEREÇO: RODOVIA MGT 367 – Km 583, Nº5000, ALTO DA JACUBA – DIAMANTINA/MG

PROJETO ESTRUTURAL

REFERÊNCIA: FERRAGEM DAS VIGAS: SEGUNDO PAVIMENTO (2)

PRANCHA: EST 07 / 18

ARQUIVO:
DESENHO: CARLOS
DATA: 14/10/2012
ESCALA: INDICADA

AUTOR DO PROJETO:
ENG. CIVIL CARLOS HENRIQUE DE S. GONÇALVES
CREA: 7.982-D/PR