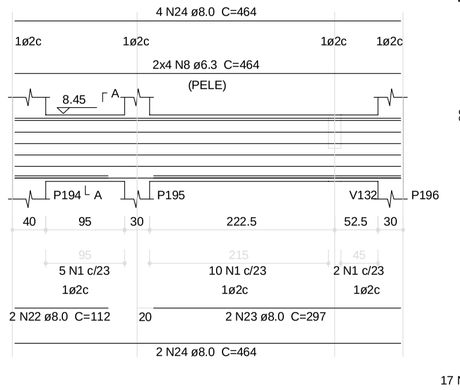
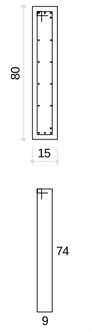
V83
1:50

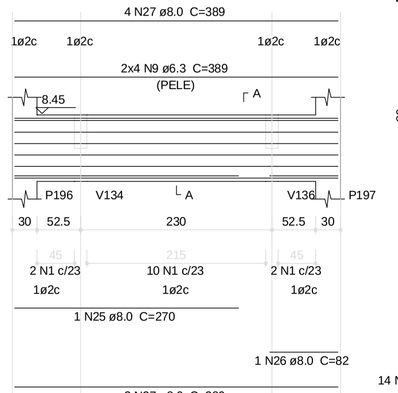


SEÇÃO A-A
ESC 1:25

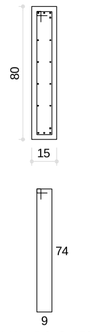


17 N1 ø5.0 C=178

V84
1:50

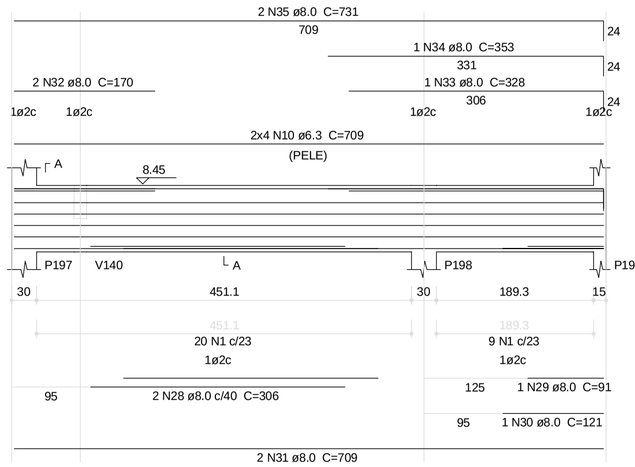


SEÇÃO A-A
ESC 1:25

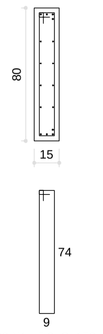


14 N1 ø5.0 C=178

V85
1:50

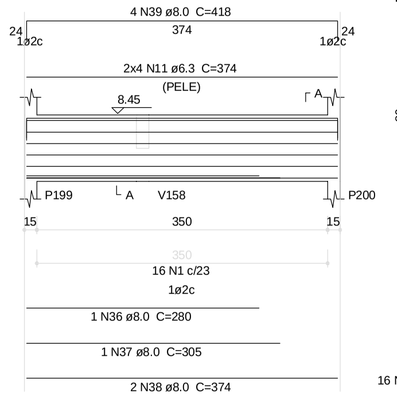


SEÇÃO A-A
ESC 1:25

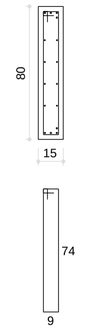


29 N1 ø5.0 C=178

V86
1:50

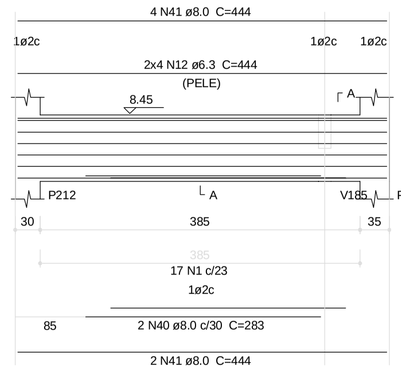


SEÇÃO A-A
ESC 1:25

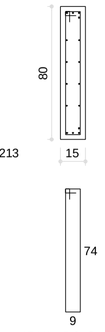


16 N1 ø5.0 C=178

V89
1:50

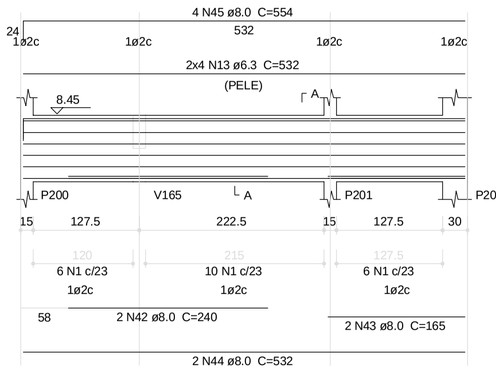


SEÇÃO A-A
ESC 1:25

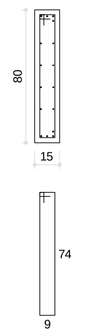


17 N1 ø5.0 C=178

V87
1:50

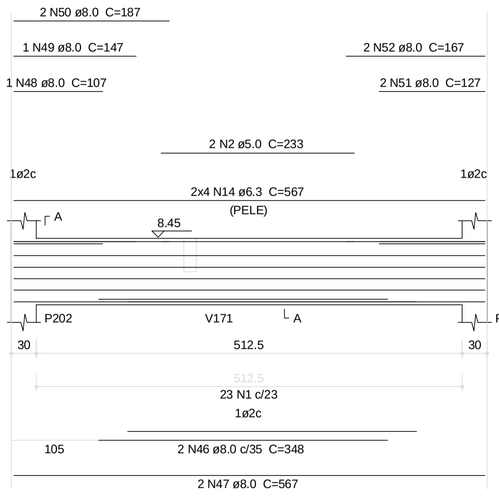


SEÇÃO A-A
ESC 1:25

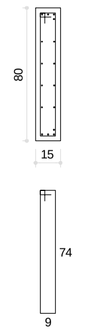


22 N1 ø5.0 C=178

V88
1:50

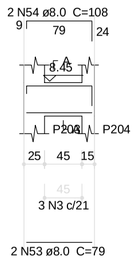


SEÇÃO A-A
ESC 1:25

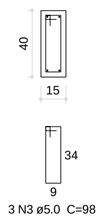


23 N1 ø5.0 C=178

V90
1:50

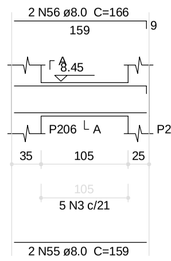


SEÇÃO A-A
ESC 1:25

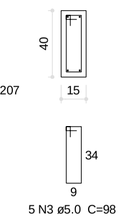


3 N3 ø5.0 C=98

V91
1:50

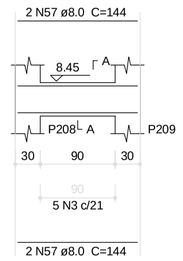


SEÇÃO A-A
ESC 1:25

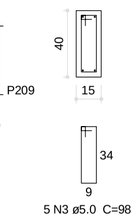


5 N3 ø5.0 C=98

V92
1:50

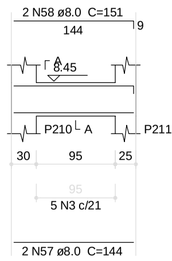


SEÇÃO A-A
ESC 1:25

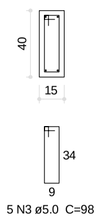


5 N3 ø5.0 C=98

V93
1:50

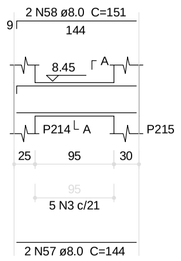


SEÇÃO A-A
ESC 1:25

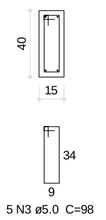


5 N3 ø5.0 C=98

V94
1:50

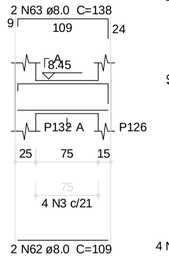


SEÇÃO A-A
ESC 1:25

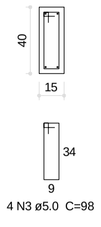


5 N3 ø5.0 C=98

V103
1:50

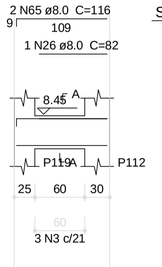


SEÇÃO A-A
ESC 1:25

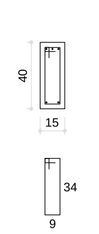


4 N3 ø5.0 C=98

V104
1:50

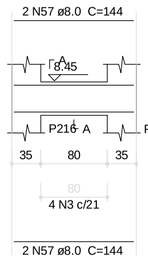


SEÇÃO A-A
ESC 1:25

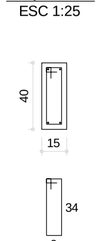


3 N3 ø5.0 C=98

V95
1:50

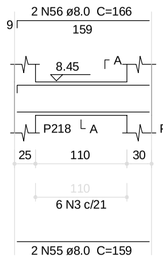


SEÇÃO A-A
ESC 1:25

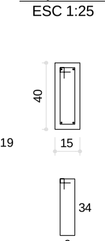


4 N3 ø5.0 C=98

V96
1:50

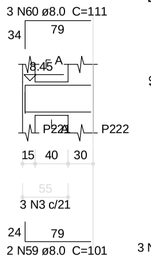


SEÇÃO A-A
ESC 1:25

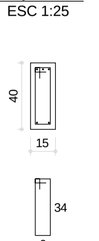


6 N3 ø5.0 C=98

V97
1:50

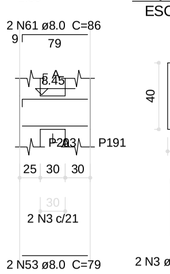


SEÇÃO A-A
ESC 1:25

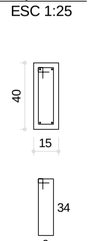


3 N3 ø5.0 C=98

V98
1:50

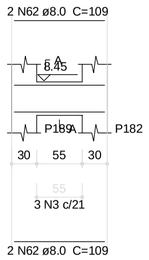


SEÇÃO A-A
ESC 1:25

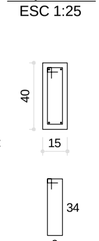


2 N3 ø5.0 C=98

V99
1:50

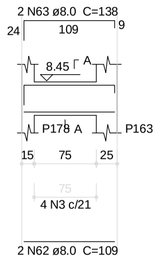


SEÇÃO A-A
ESC 1:25

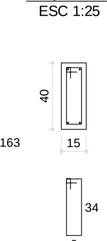


3 N3 ø5.0 C=98

V100
1:50

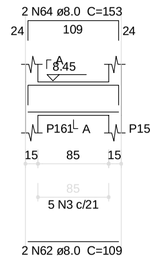


SEÇÃO A-A
ESC 1:25

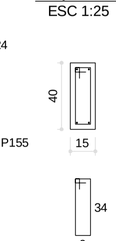


4 N3 ø5.0 C=98

V101
1:50

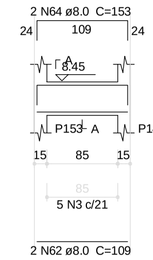


SEÇÃO A-A
ESC 1:25

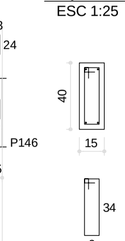


5 N3 ø5.0 C=98

V102
1:50

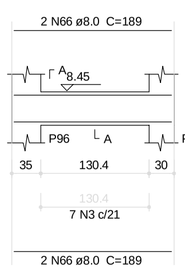


SEÇÃO A-A
ESC 1:25

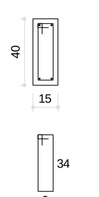


5 N3 ø5.0 C=98

V105
1:50

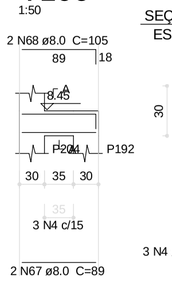


SEÇÃO A-A
ESC 1:25

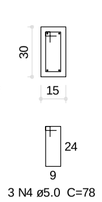


7 N3 ø5.0 C=98

V106
1:50

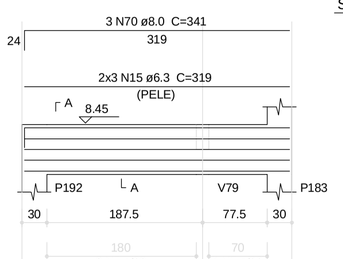


SEÇÃO A-A
ESC 1:25

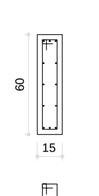


3 N4 ø5.0 C=78

V107
1:50

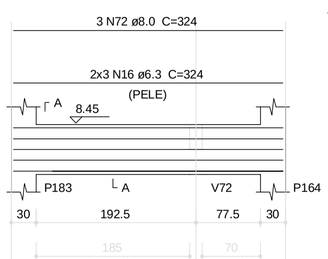


SEÇÃO A-A
ESC 1:25

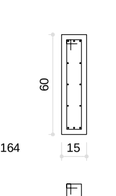


12 N5 ø5.0 C=138

V108
1:50

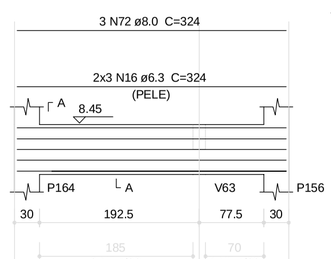


SEÇÃO A-A
ESC 1:25

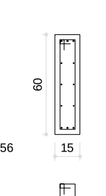


13 N5 ø5.0 C=138

V109
1:50

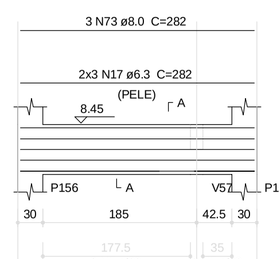


SEÇÃO A-A
ESC 1:25

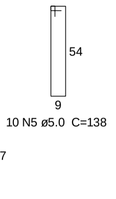


13 N5 ø5.0 C=138

V110
1:50

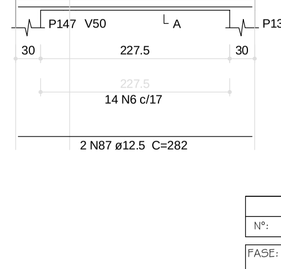


SEÇÃO A-A
ESC 1:25

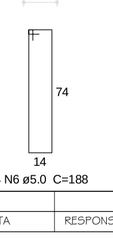


10 N5 ø5.0 C=138

V111
1:50



SEÇÃO A-A
ESC 1:25



14 N6 ø5.0 C=188

Relação do aço

V83	V84	V85
V86	V87	V88
V89	V90	V91
V92	V93	V94
V95	V96	V97
V98	V99	V100
V101	V102	V103
V104	V105	V106
V107	V108	V109
V110	V111	V112
V113	V114	V115
V116	V118	

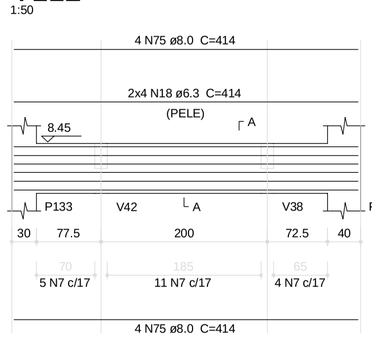
AÇO	N	DIAM	Q	UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	138	178	24564
	2	5.0	2	233	466
	3	5.0	80	98	7840
	4	5.0	3	78	234
	5	5.0	87	138	12006
	6	5.0	14	188	2632
	7	5.0	20	148	2960
CA50	8	6.3	8	464	3712
	9	6.3	8	389	3112
	10	6.3	8	709	5672
	11	6.3	6	374	2992
	12	6.3	8	444	3552
	13	6.3	8	532	4256
	14	6.3	8	567	4536
	15	6.3	12	319	3828
	16	6.3	12	324	3888
	17	6.3	18	282	5076
	18	6.3	8	414	3312
	19	6.3	6	237	1422
	20	6.3	6	168	1008
	21	6.3	6	309	1854
	22	8.0	2	112	224
	23	8.0	2	297	594
	24	8.0	6	464	2784
	25	8.0	1	270	270
	26	8.0	2	82	164
	27	8.0	7	389	2723
	28	8.0	2	306	612
	29	8.0	1	91	91
	30	8.0	1	121	121
	31	8.0	2	709	1418
	32	8.0	2	170	340
	33	8.0	1	328	328
	34	8.0	1	353	353
	35	8.0	2	731	1462
	36	8.0	1	280	280
	37	8.0	1	305	305
	38	8.0	2	374	748
	39	8.0	4	418	1672
	40	8.0	2	283	566
	41	8.0	6	444	2664
	42	8.0	2	240	480
	43	8.0	2	165	330
	44	8.0	2	532	1064
	45	8.0	4	554	2216
	46	8.0	2	348	696
	47	8.0	2	567	1134
	48	8.0	1	107	107
	49	8.0	1	147	147
	50	8.0	2	187	374
	51	8.0	2	127	254
	52	8.0	3	167	501
	53	8.0	4	79	316
	54	8.0	2	108	216
	55	8.0	4	159	636
	56	8.0	4	166	664
	57	8.0	12	144	1728
	58	8.0	4	151	604
	59	8.0	2	101	202
	60	8.0	3	111	333
	61	8.0	2	86	172
	62	8.0	14	109	1526
	63	8.0	4	138	552
	64	8.0	4	153	612
	65	8.0	2	116	232
	66	8.0	4	189	756
	67	8.0	2	89	178
	68	8.0	2	105	210
	69	8.0	5	319	1595
	70	8.0	3	341	1023
	71	8.0	1	277	277
	72	8.0	10	324	3240
	73	8.0	6	282	1692
	74	8.0	1	72	72
	75	8.0	8	414	3312
	76	8.0	1	135	135
	77	8.0	5	237	1185
	78	8.0	1	96	96
	79	8.0	5	168	840
	80	8.0	1	213	213
	81	8.0	3	348	1044
	82	8.0	1	155	155
	83	8.0	2	309	618
	84	8.0	2	259	518
	85	8.0	2	313	626
	86	10.0	2	366	732
	87	12.5	2	282	564
	88	12.5	2	358	716

Resumo do aço

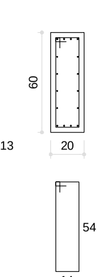
AÇO	DIAM	C.TOTAL (m)	PESO + 10 % (kg)
CA50	6.3	482.2	129.8
	8.0	506	219.6
	10.0	7.4	5
	12.5	12.8	13.6
CA60	5.0	507.1	86
PESO TOTAL			
CA50	367.9		
CA60	86		

Vol. de concreto total (C-30) = 8.73 m³
Área de forma total = 127 m²

V112
1:50

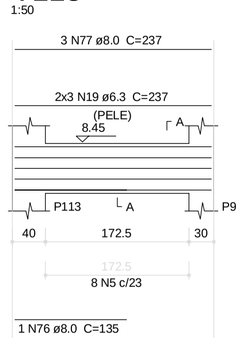


SEÇÃO A-A
ESC 1:25

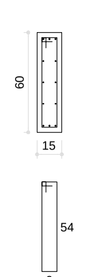


20 N7 ø5.0 C=148

V113
1:50

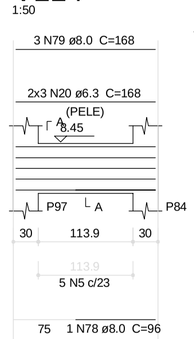


SEÇÃO A-A
ESC 1:25

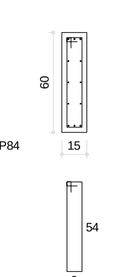


8 N5 ø5.0 C=138

V114
1:50

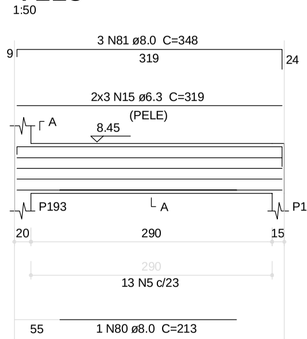


SEÇÃO A-A
ESC 1:25

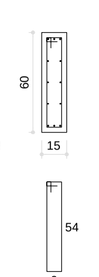


5 N5 ø5.0 C=138

V115
1:50

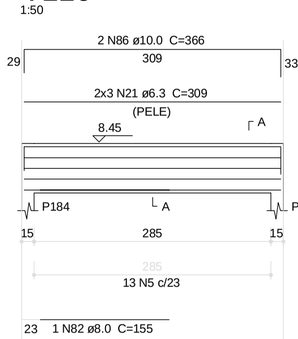


SEÇÃO A-A
ESC 1:25

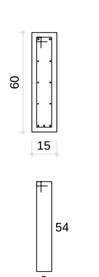


13 N5 ø5.0 C=138

V116
1:50

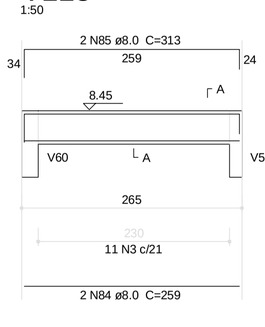


SEÇÃO A-A
ESC 1:25

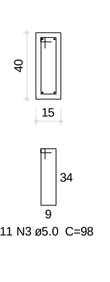


13 N5 ø5.0 C=138

V118
1:50



SEÇÃO A-A
ESC 1:25



11 N3 ø5.0 C=98

Nº:	DATA	RESPONSÁVEL	DESCRIÇÃO DA REVISÃO:

FASE:
PROJETO ESTRUTURAL

OBSERVAÇÕES
CONFERIR MEDIDAS NA OBRA

NUGEO - NÚCLEO DE GEOCIÊNCIAS
CAMPUS DIAMANTINA
RODOVIA MG 367, KM 583, Nº 5000 - ALTO DA JACUBA - DIAMANTINA/MG

PROPRIETÁRIO: UNIVERSIDADE FEDERAL DOS VALES DO JEQUITINHONHA E MUCURI
CNPJ 16.888.315/0001-57

UFVJM

TÍTULO
DETALHAMENTO DAS VIGAS DO 1º PAVIMENTO- 4/10
LEGENDAS

AUTOR PROJETO ESTRUTURAL / RT:
MACEDO SIQUEIRA PROJETOS & ENGENHARIA LTDA-ME
CNPJ: 09.566.686/0001-57
RT: ENG. CIVIL: ANTÔNIO AUGUSTO DE MACEDO – CREA: 81.746/DMG
RUA MARGARIDA CORTONA Nº799, CANAAN, SETE LAGOAS/MG
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