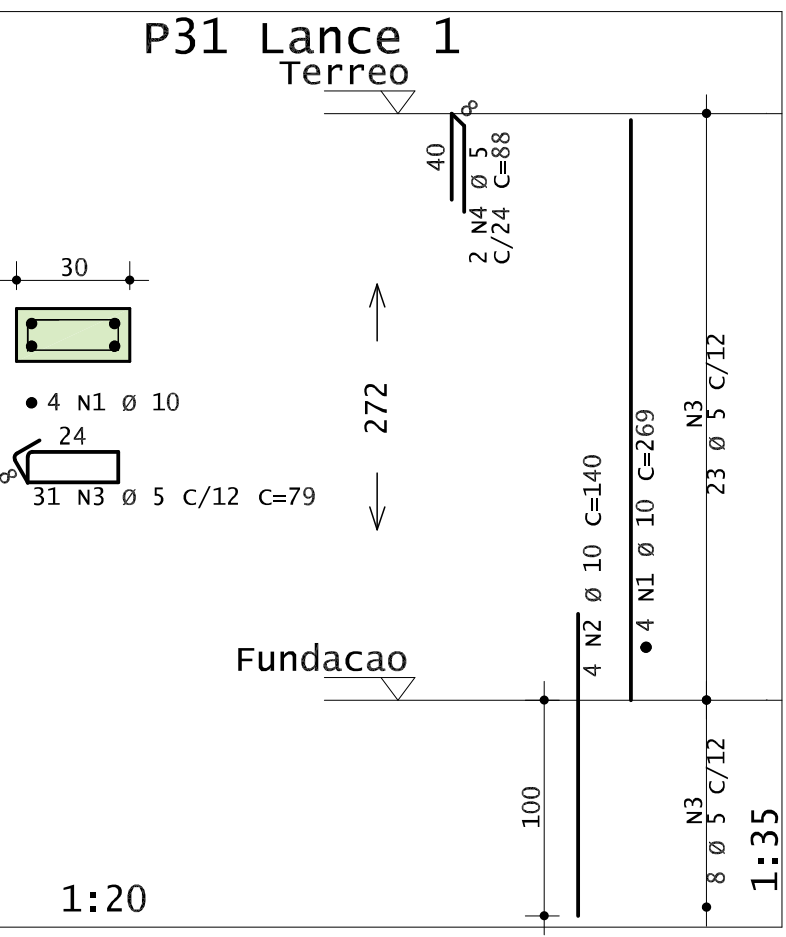
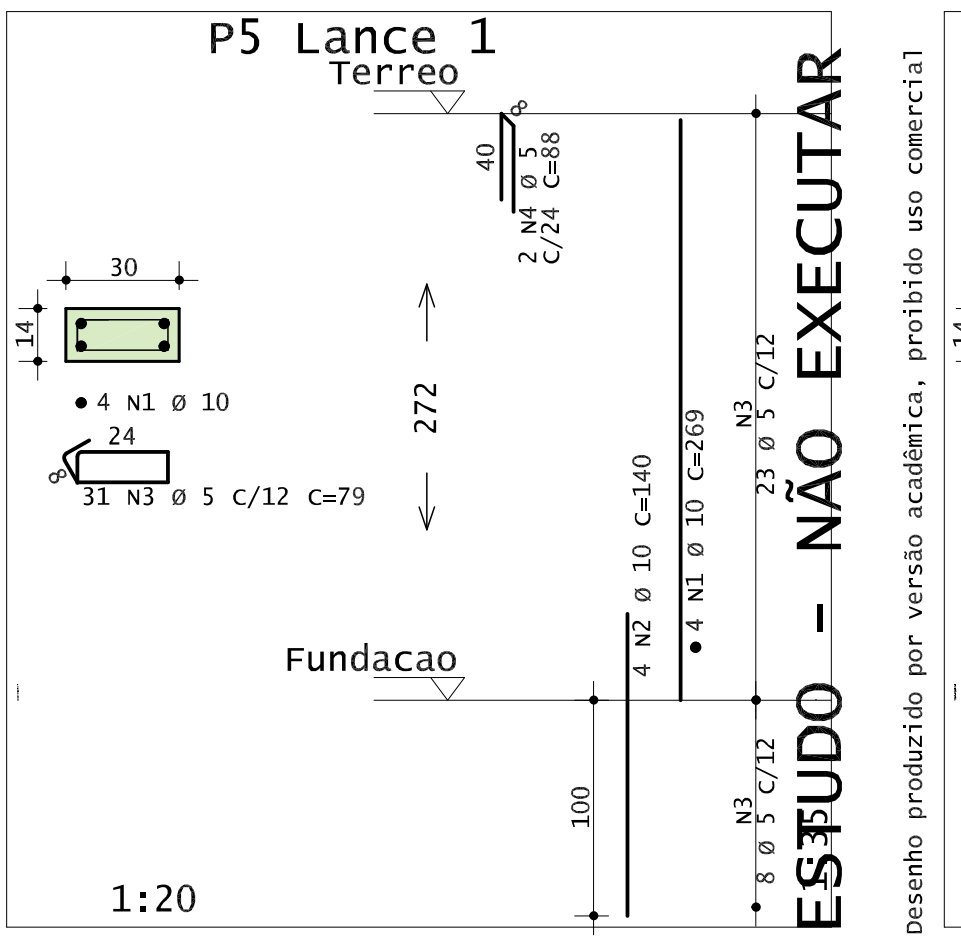
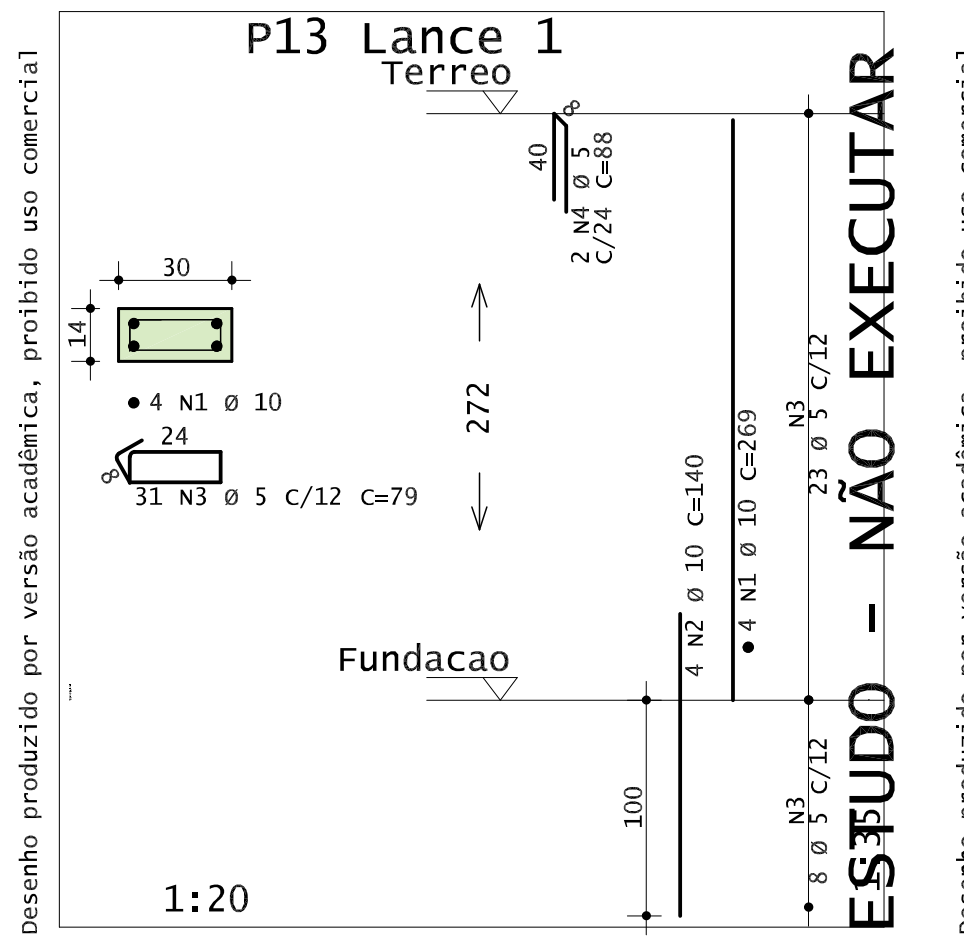
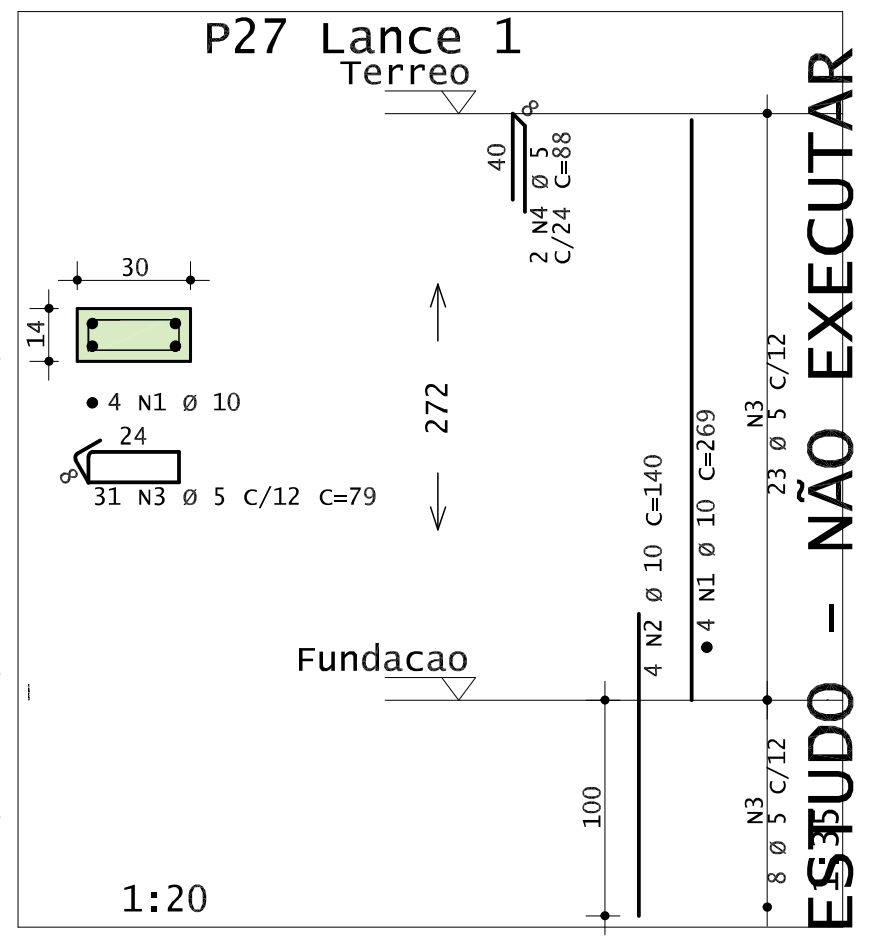
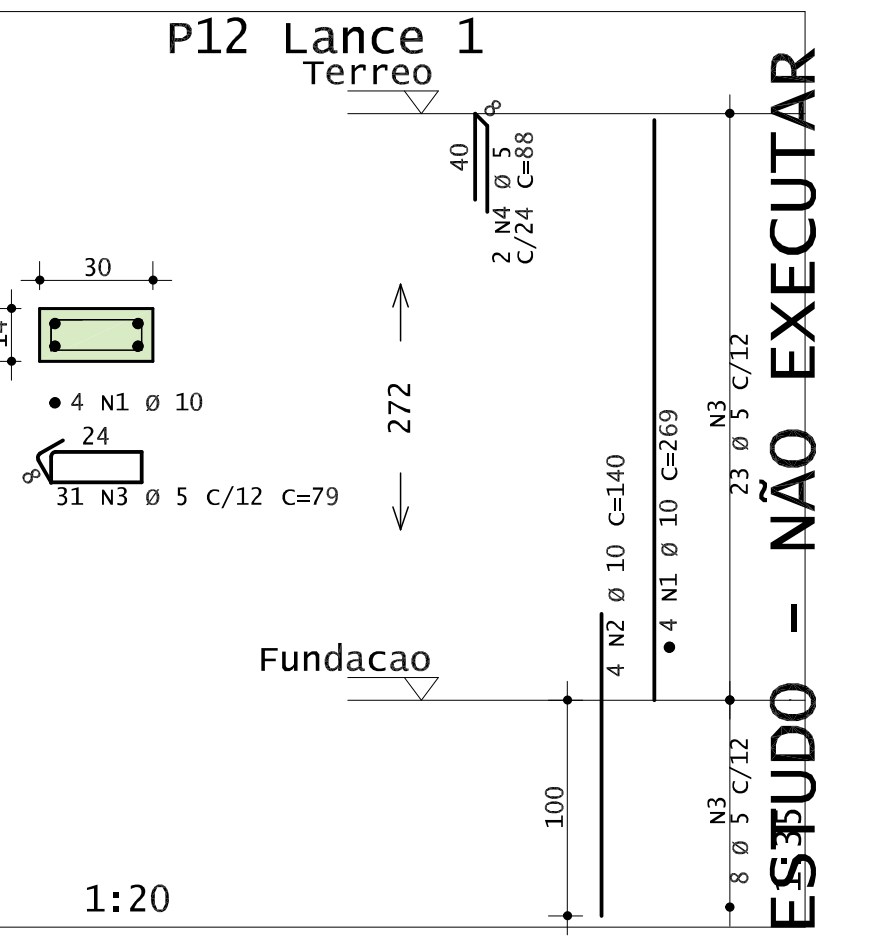
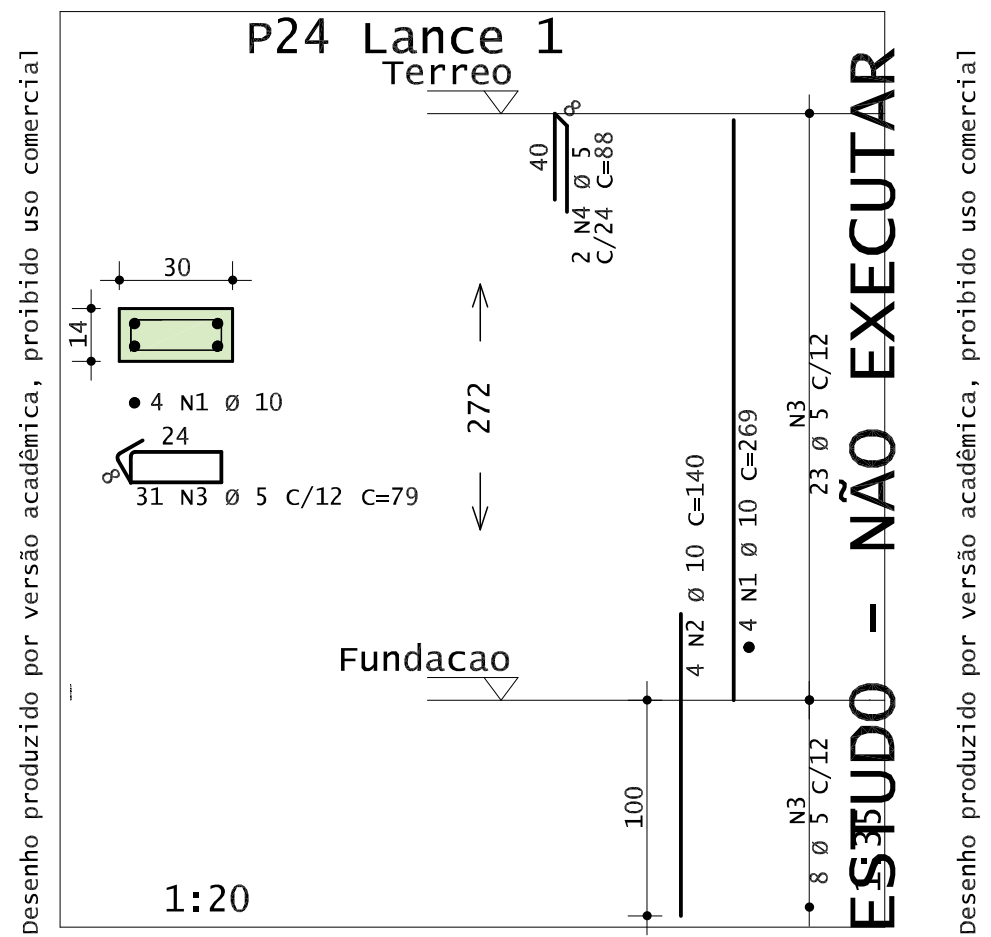
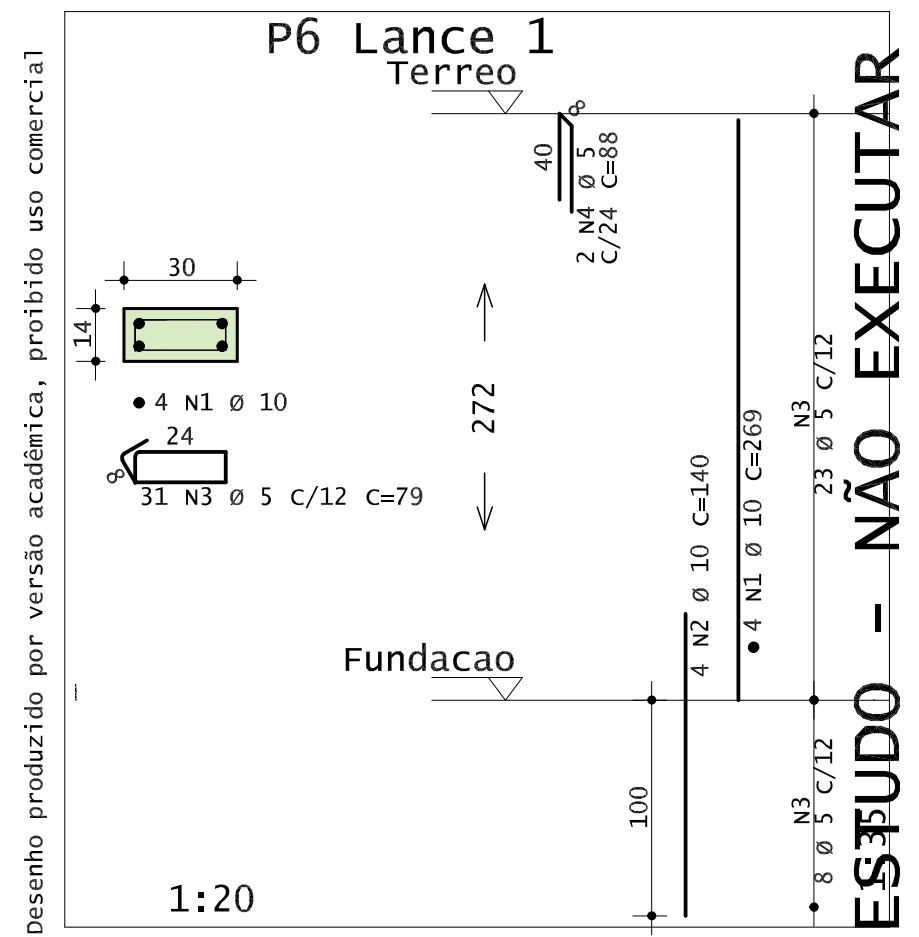
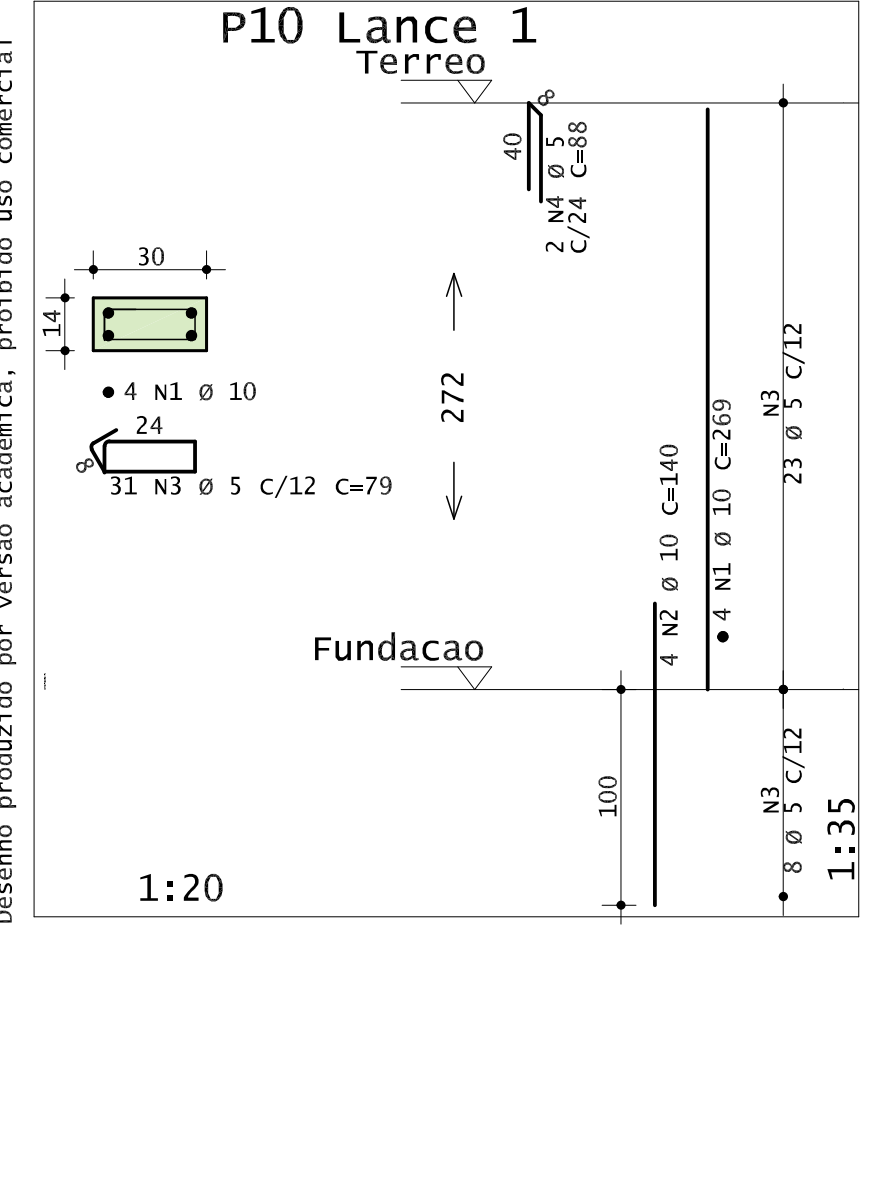
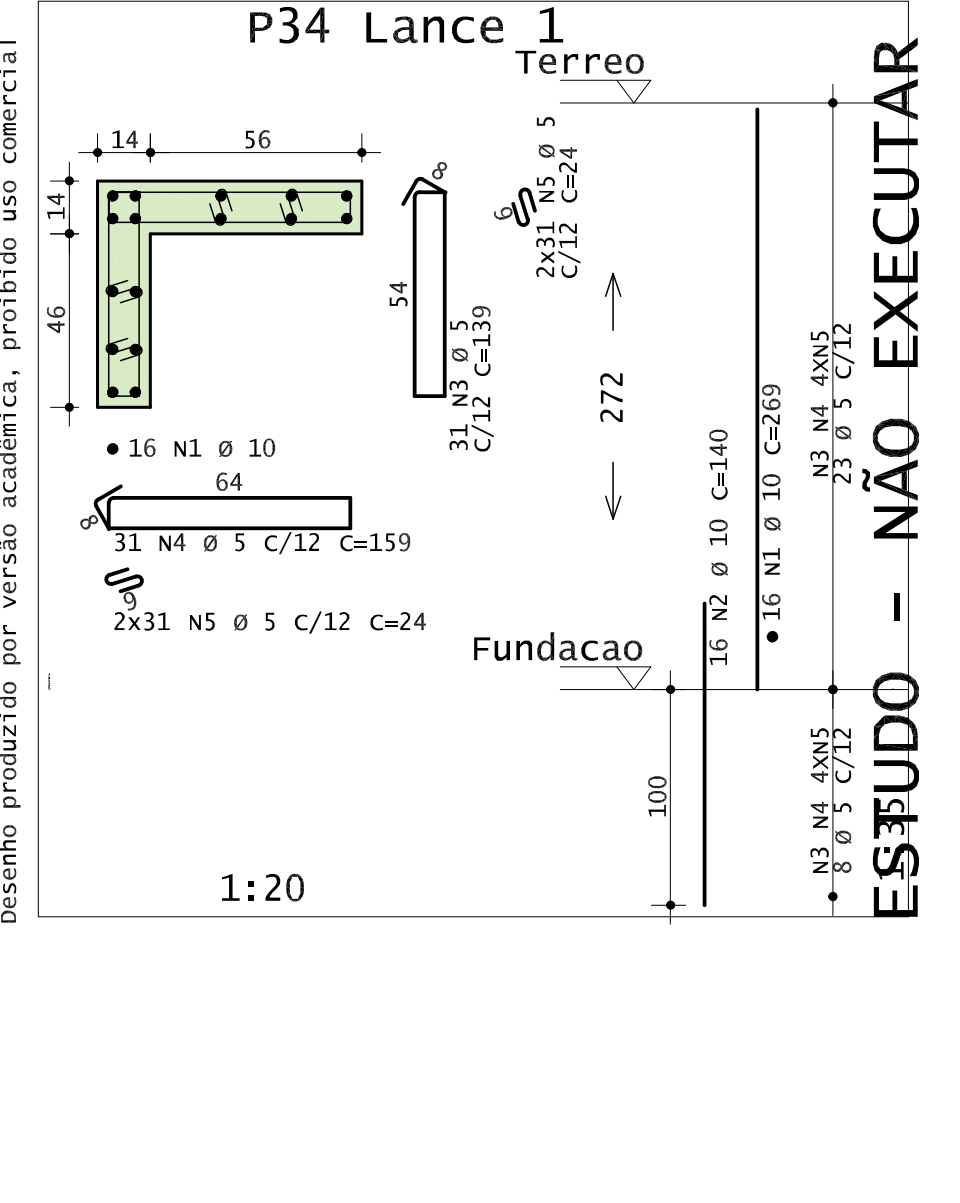
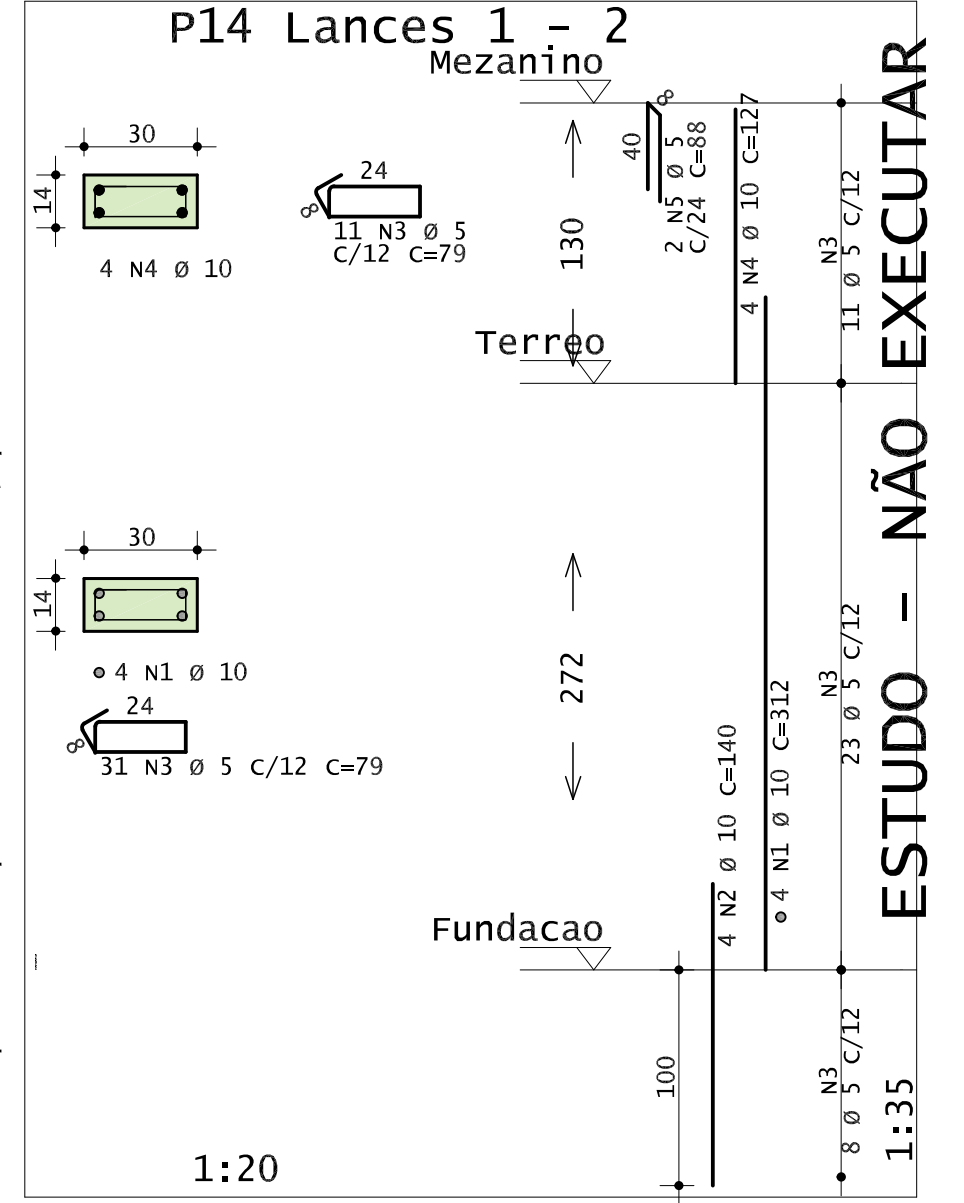
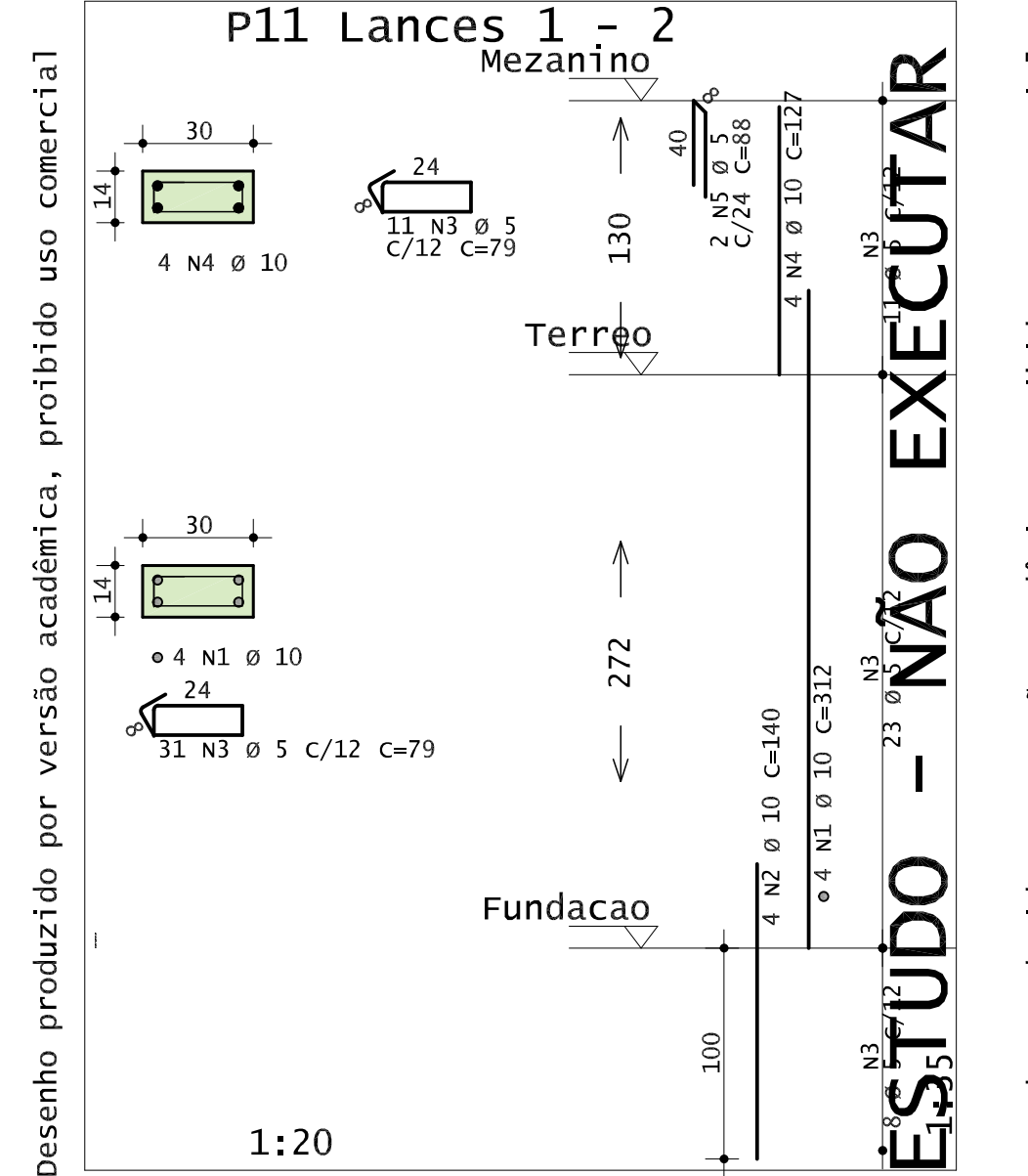
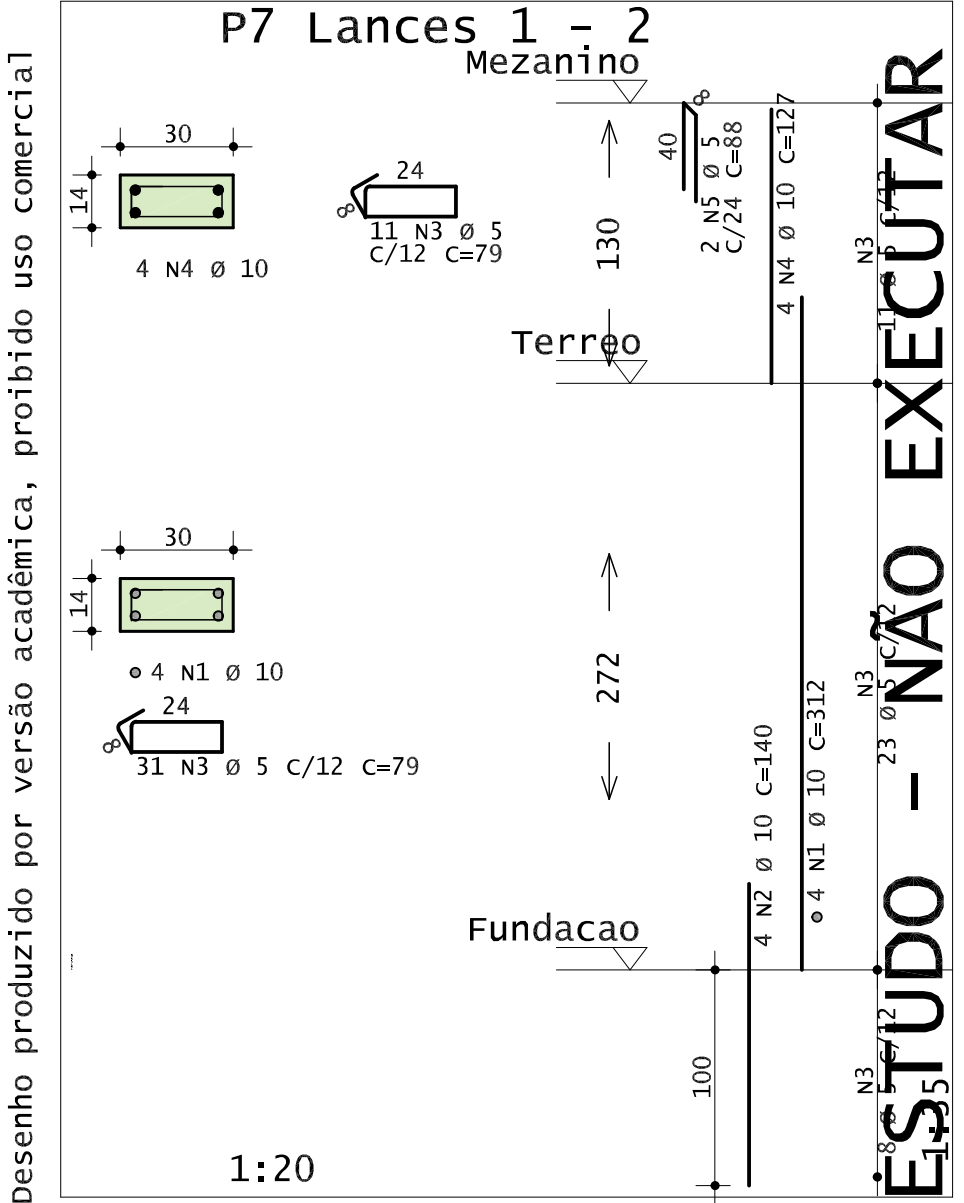
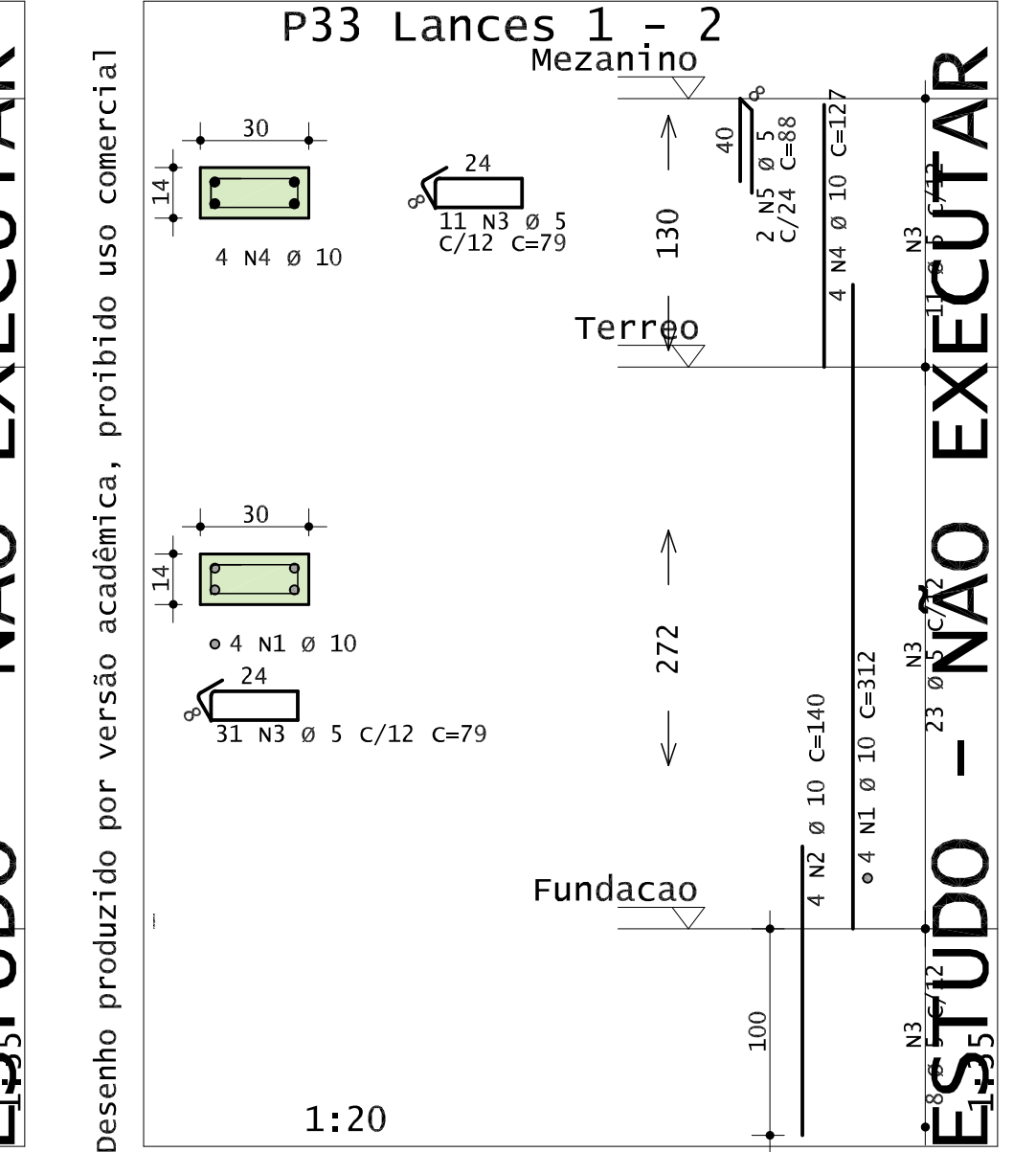
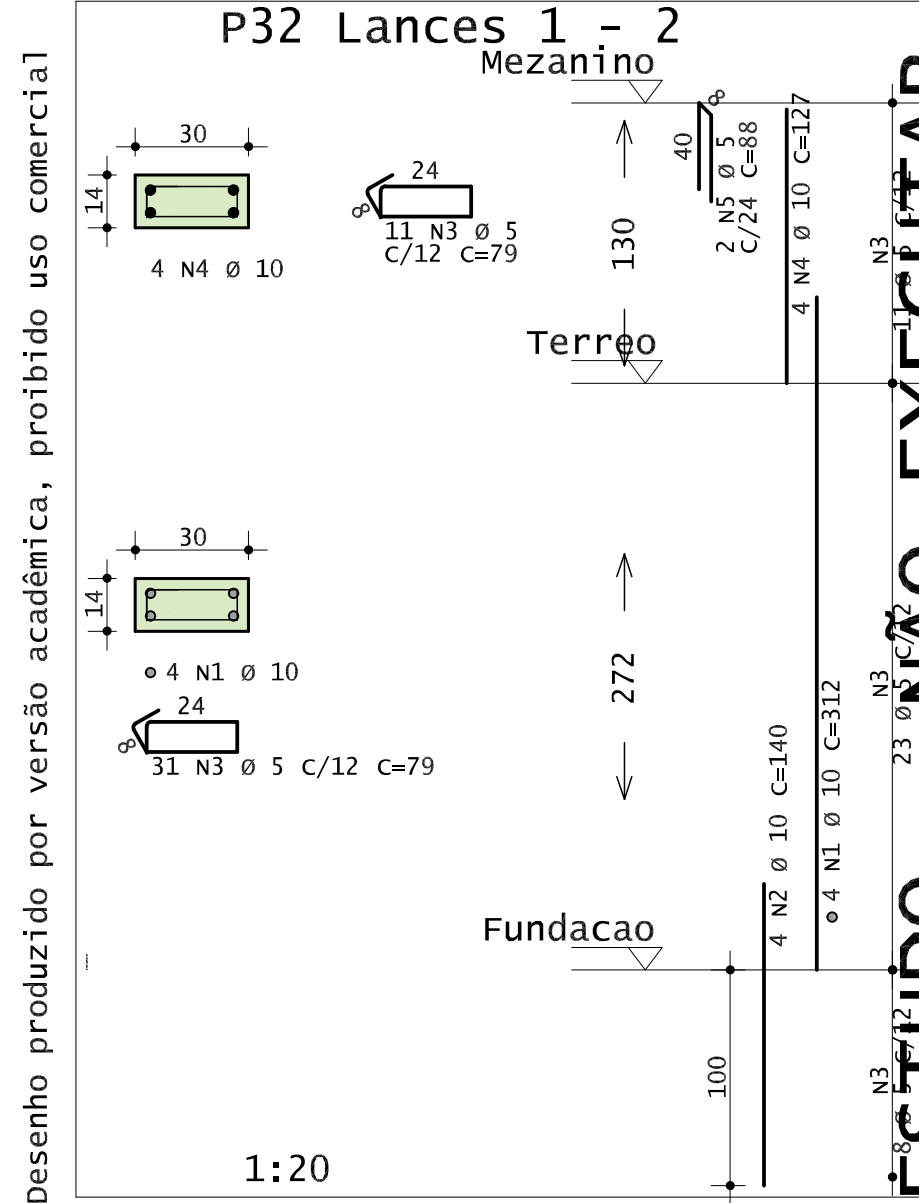


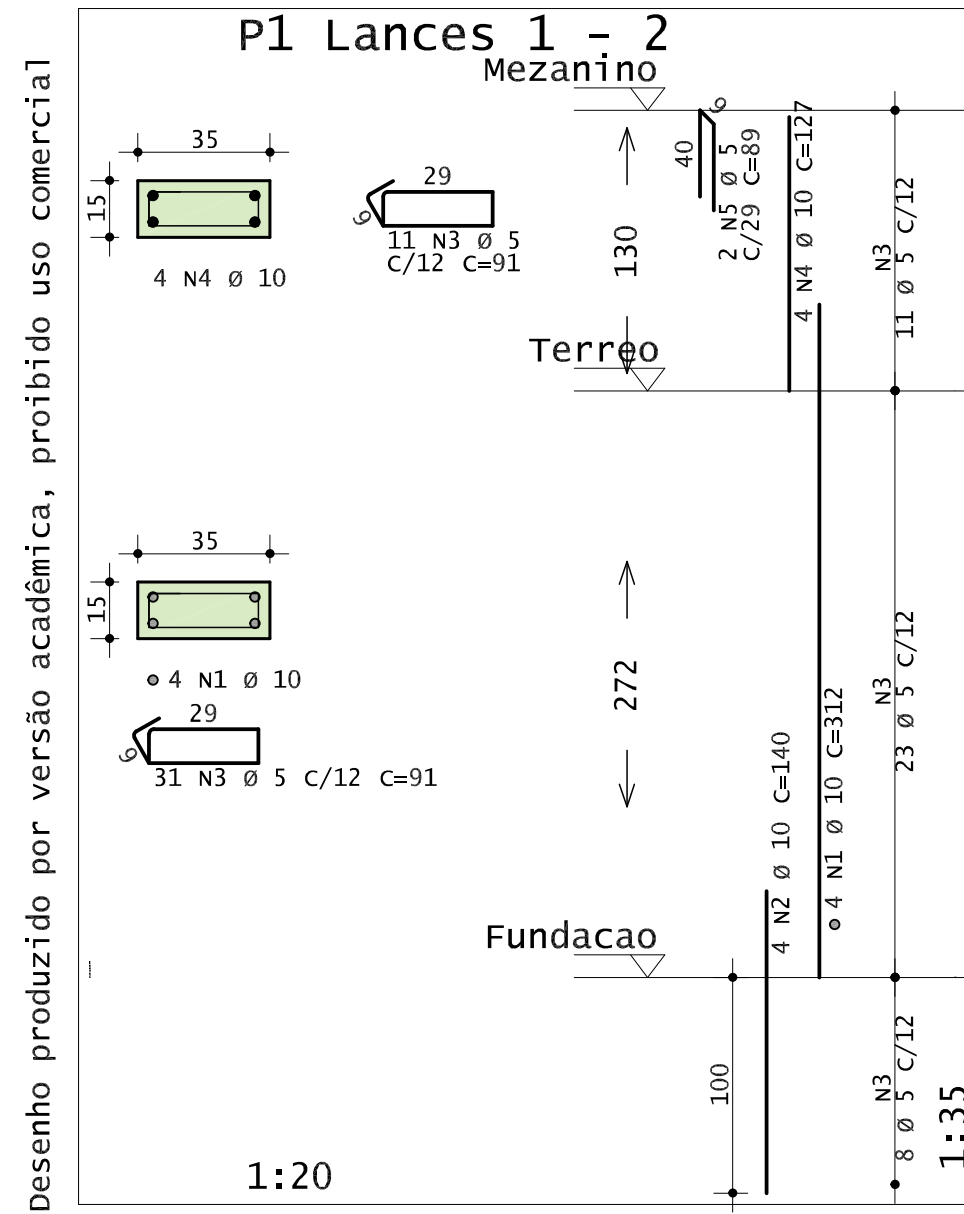
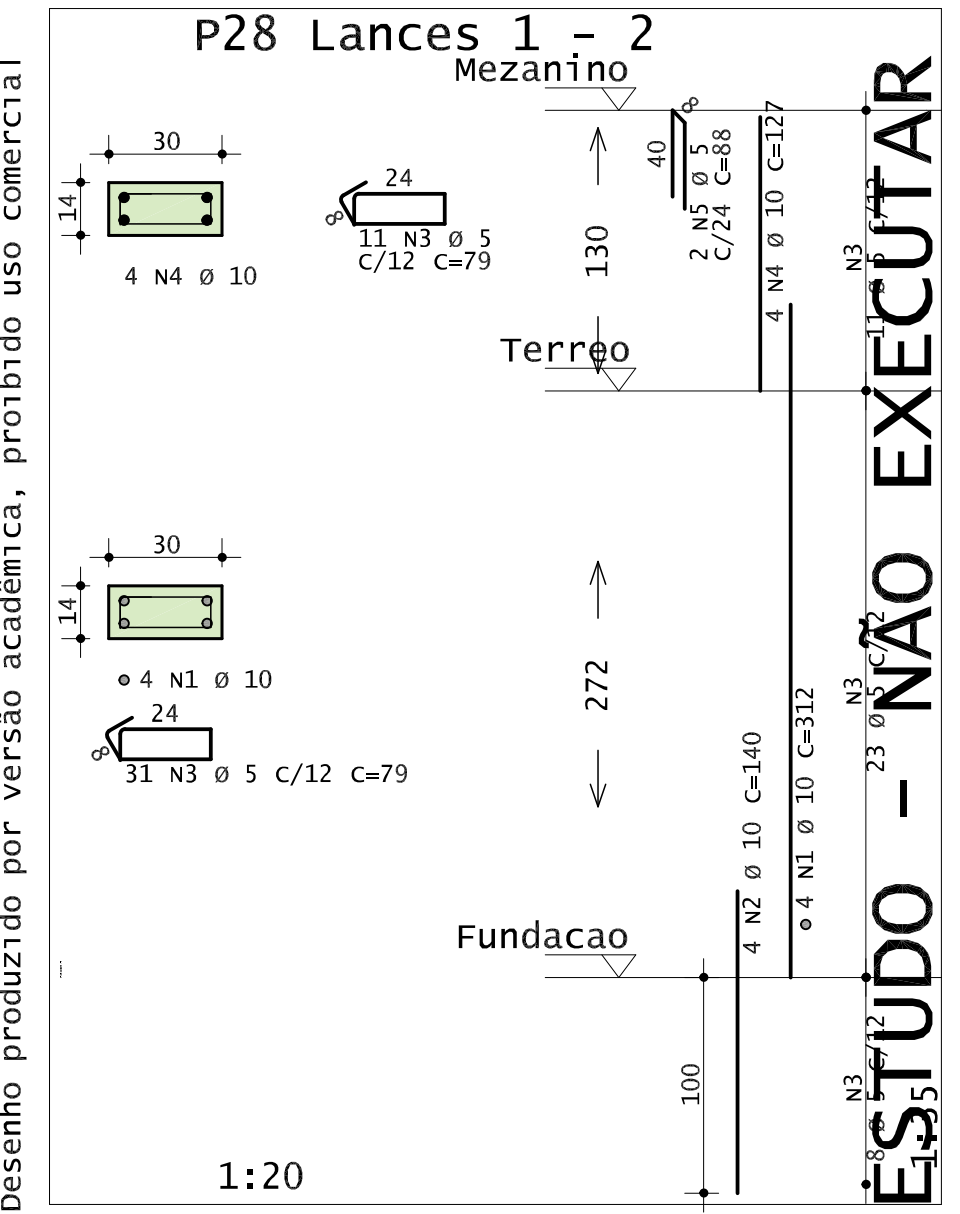
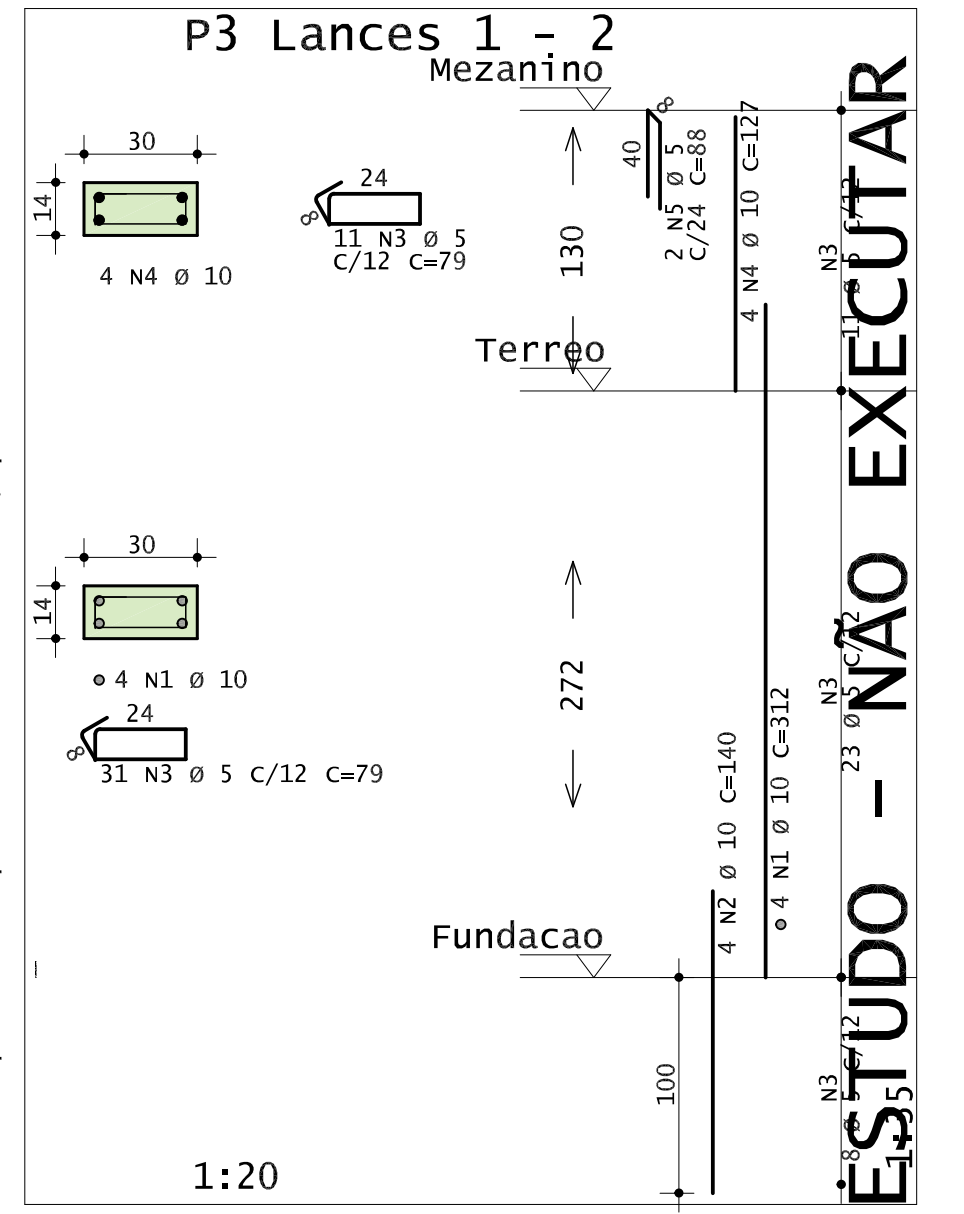
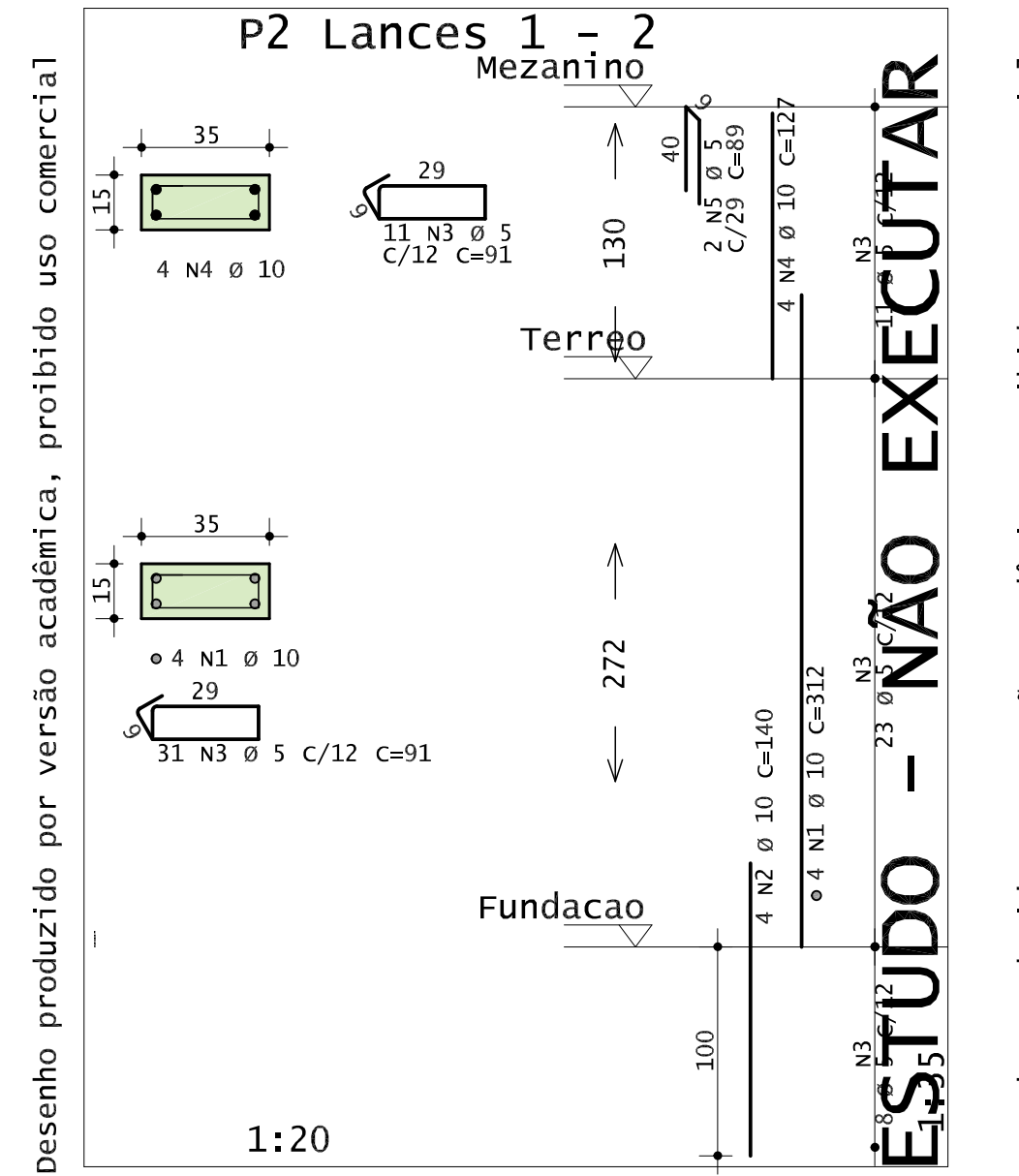
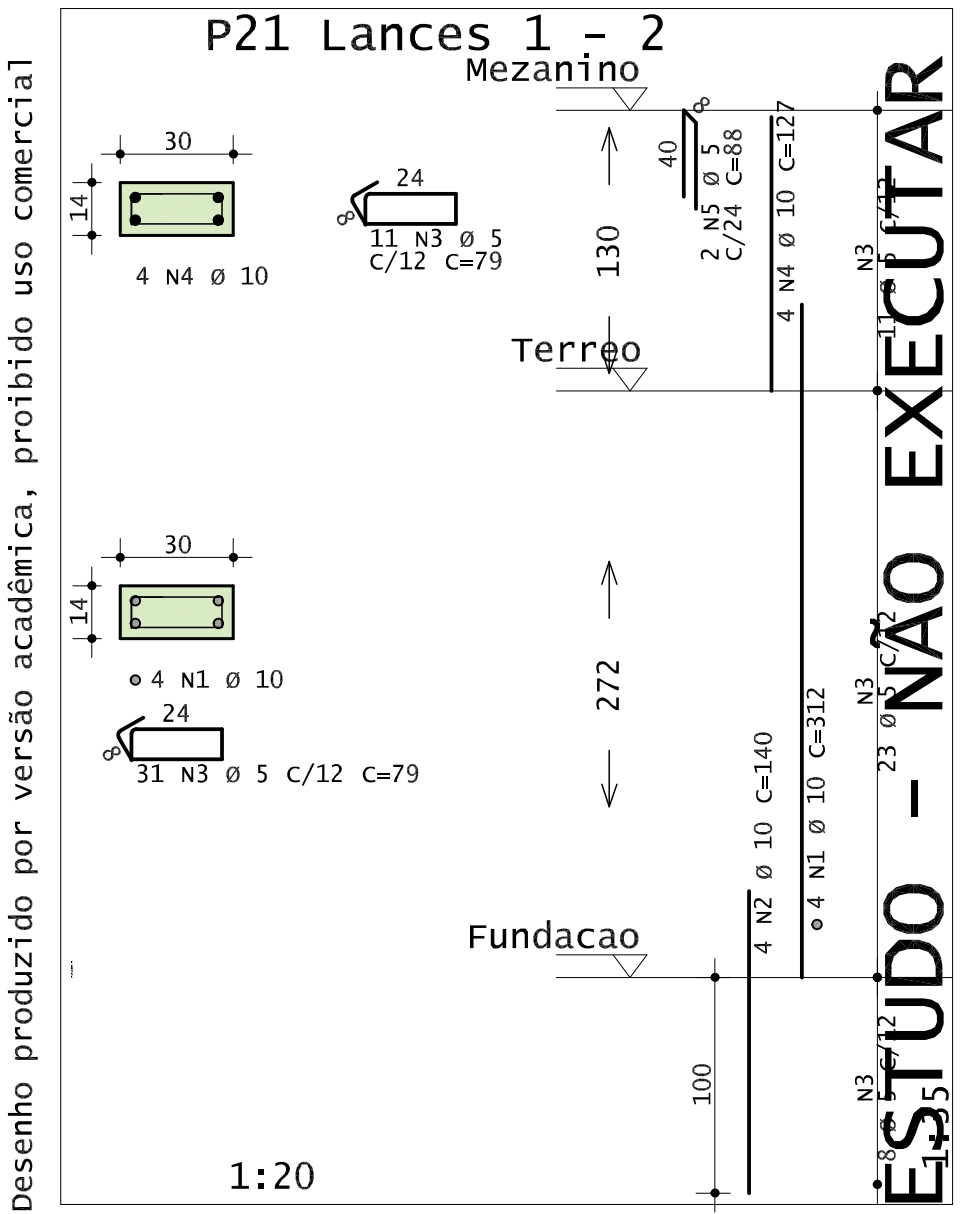
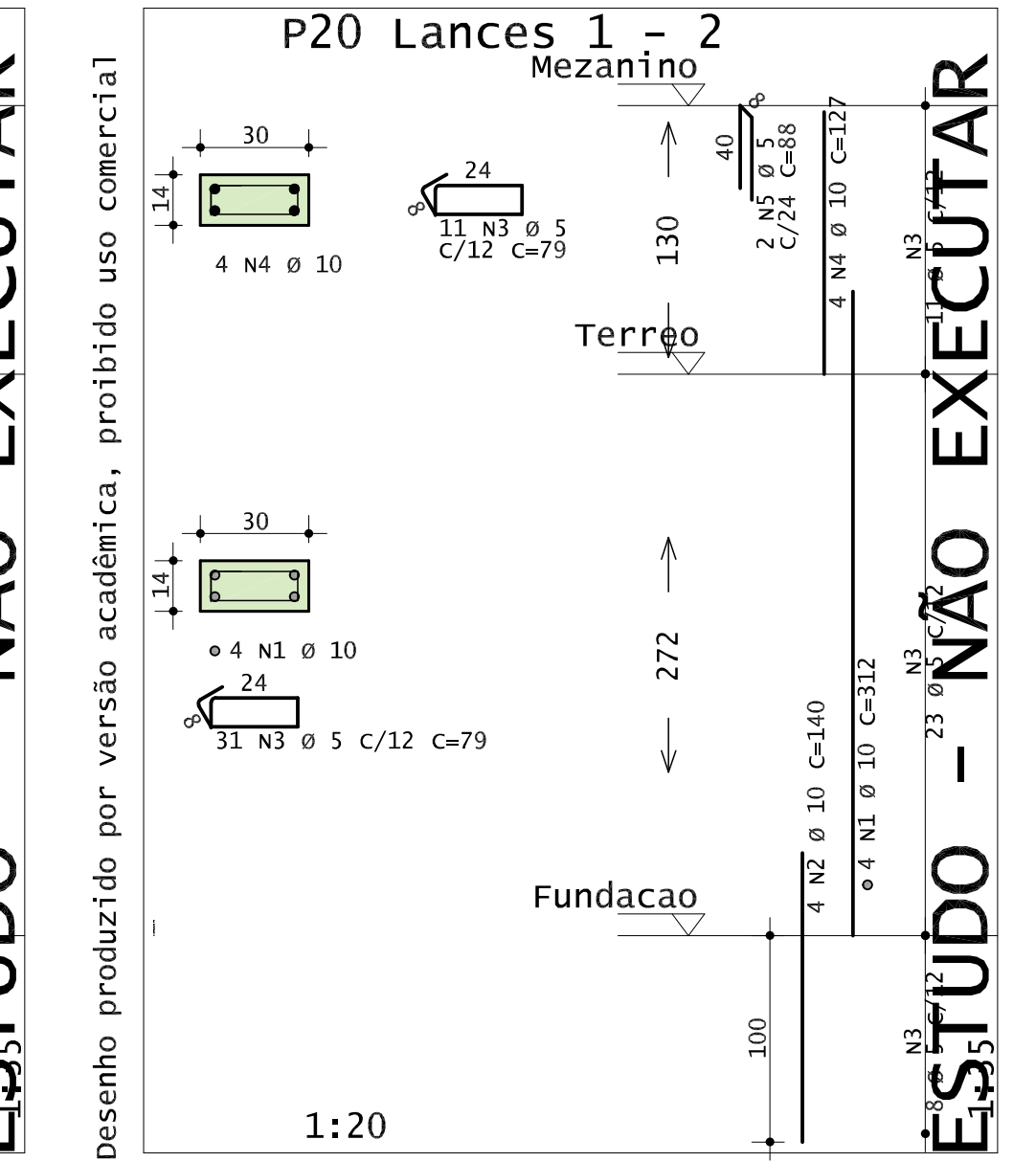
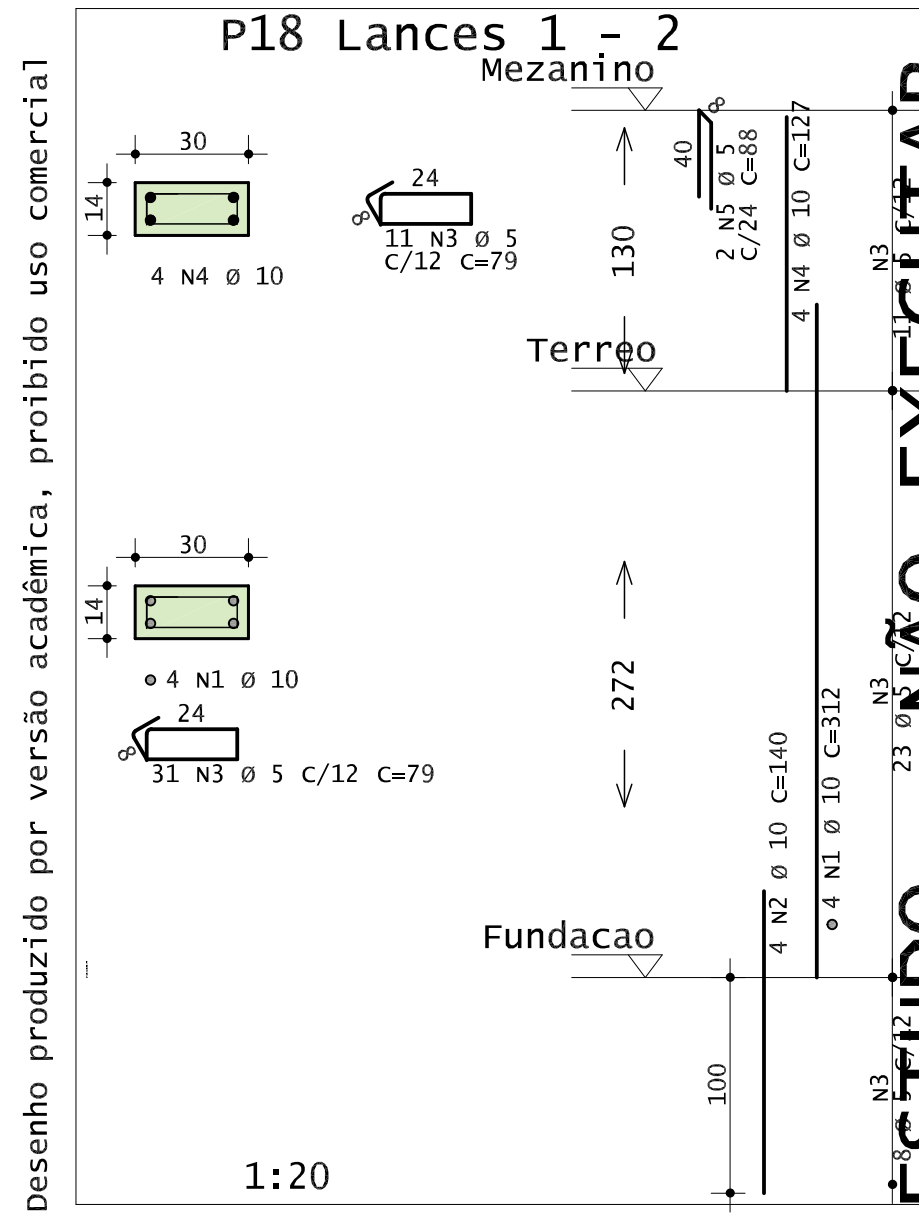
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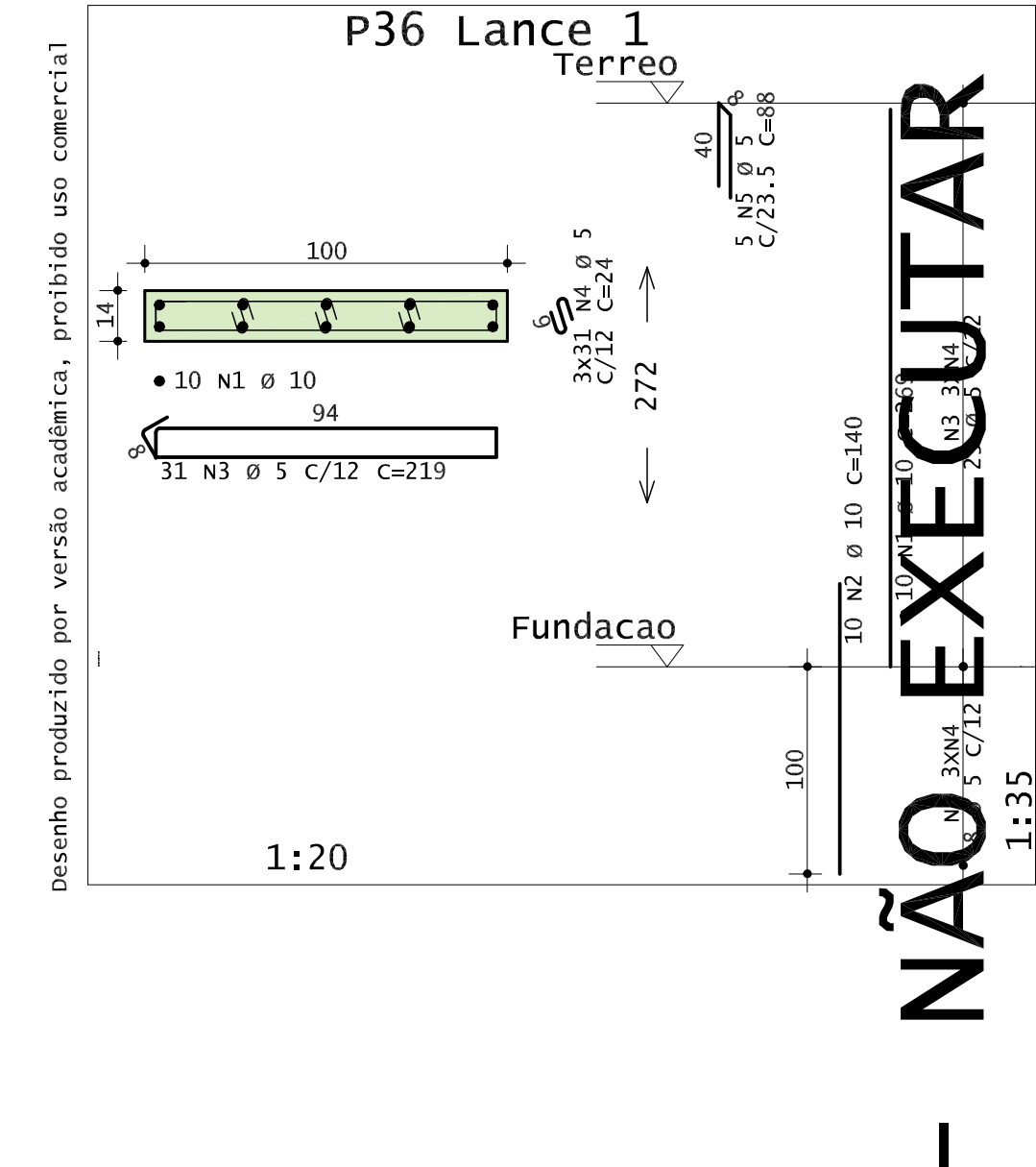
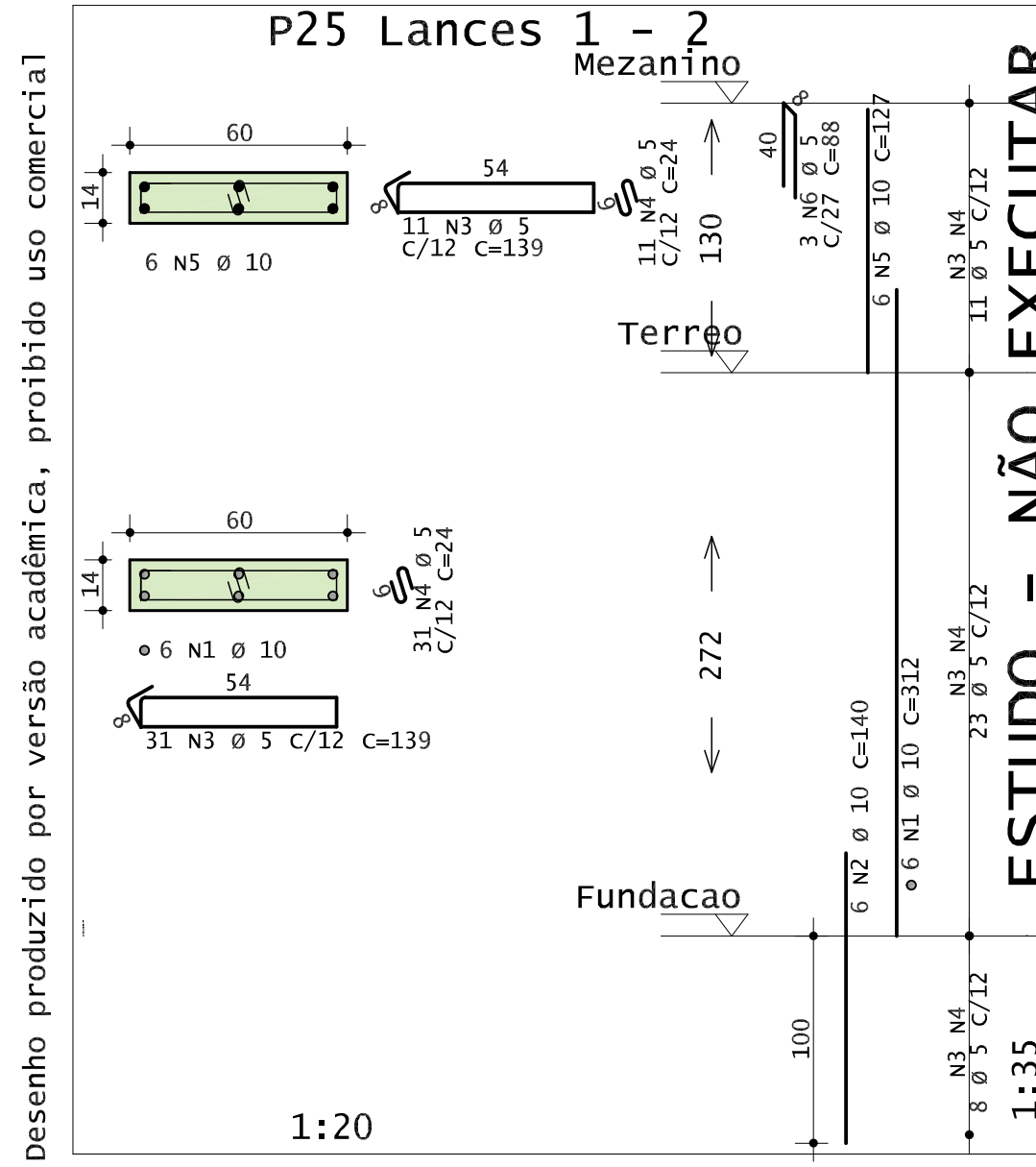
ESTUDO – NÃO EXECUTAR



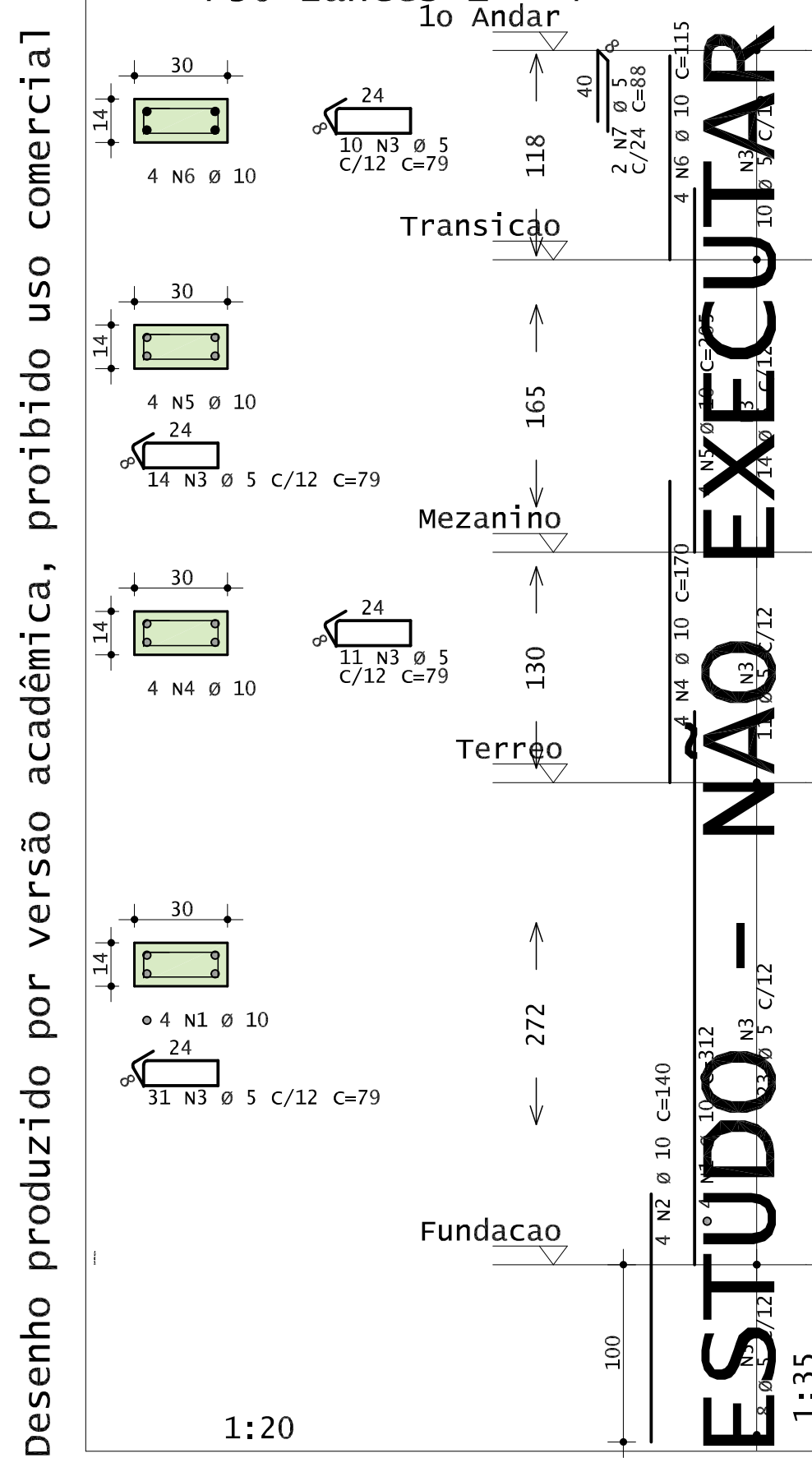
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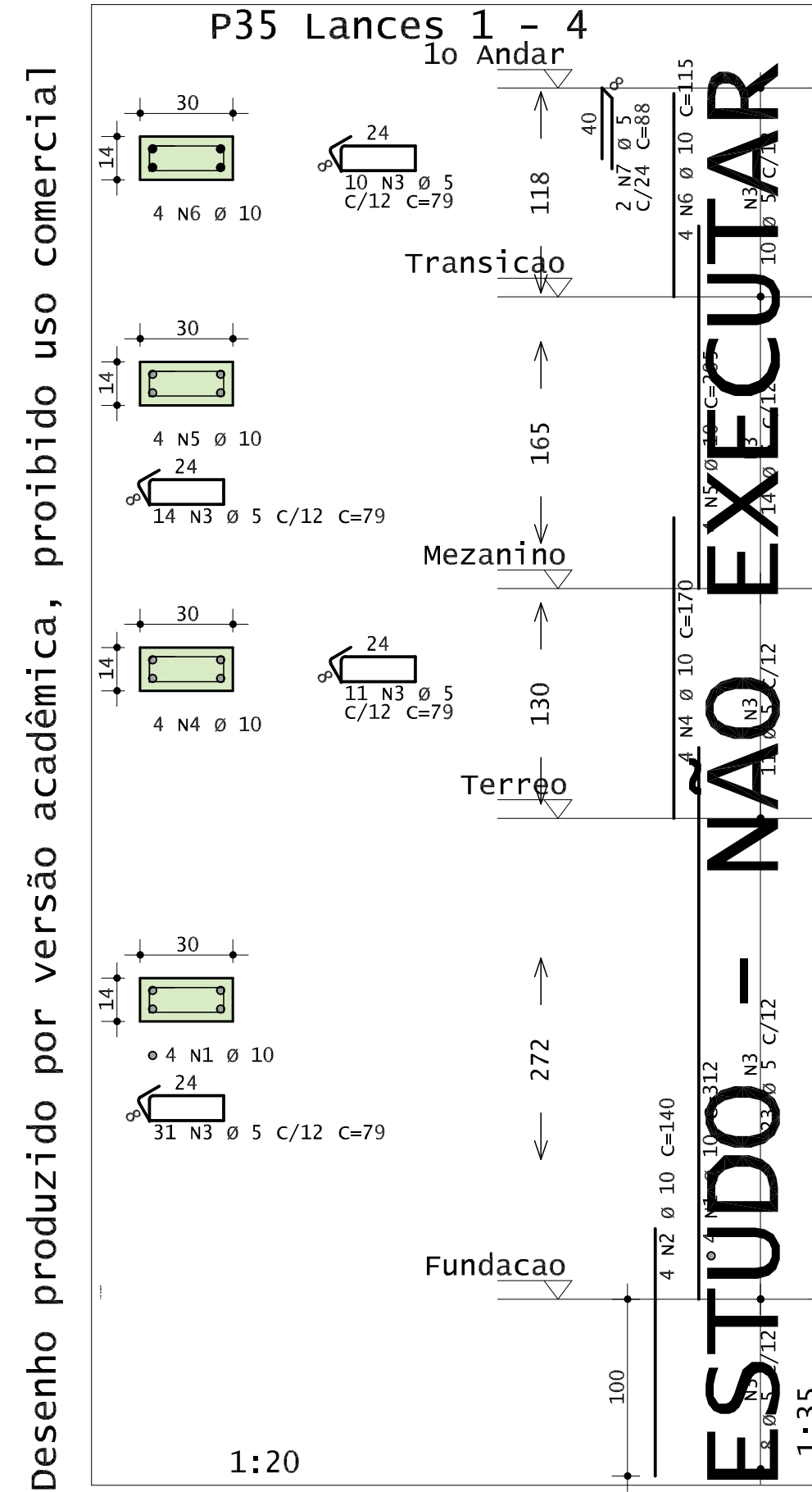
ESTUDO – NÃO EXECUTAR



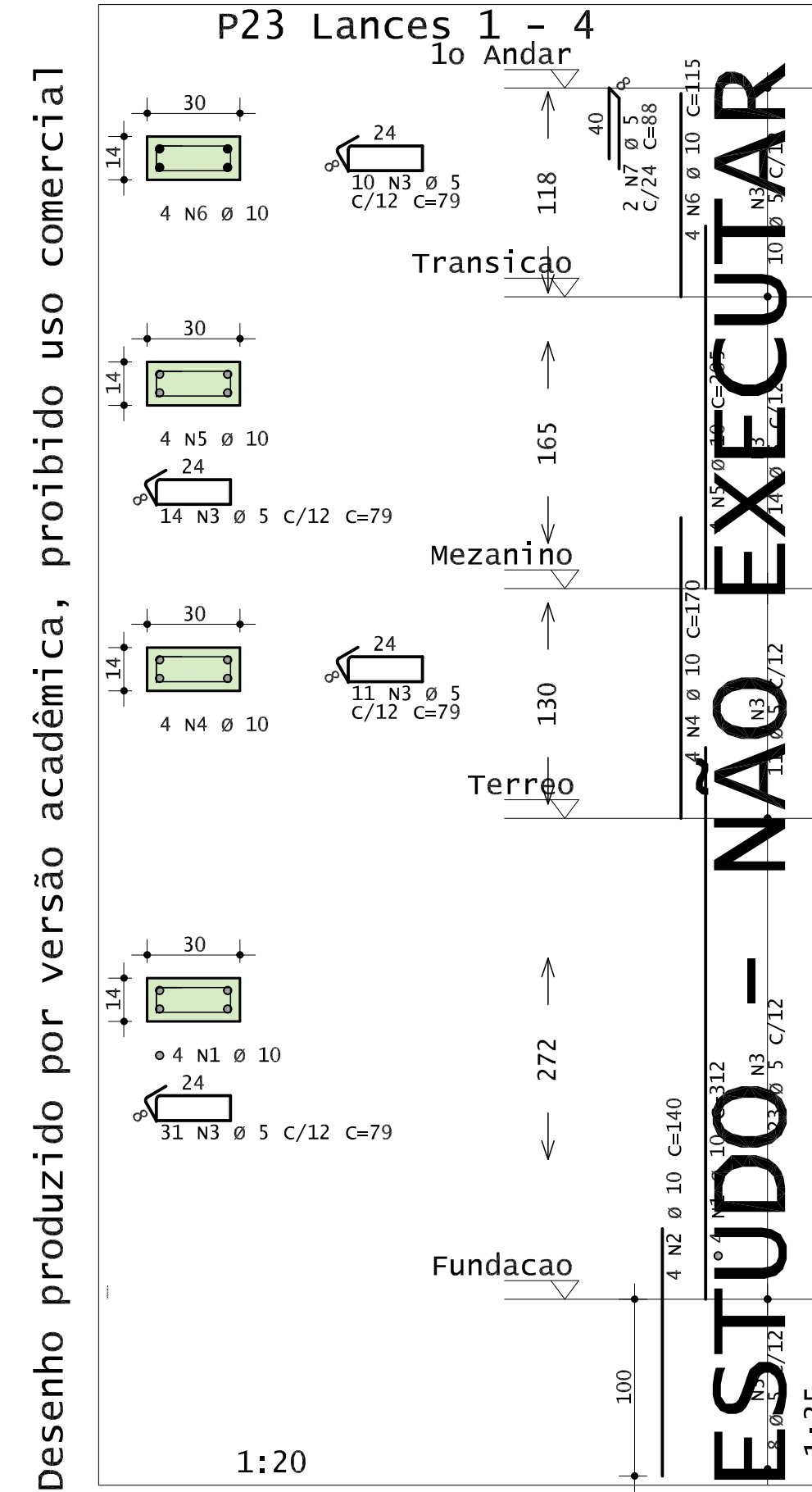
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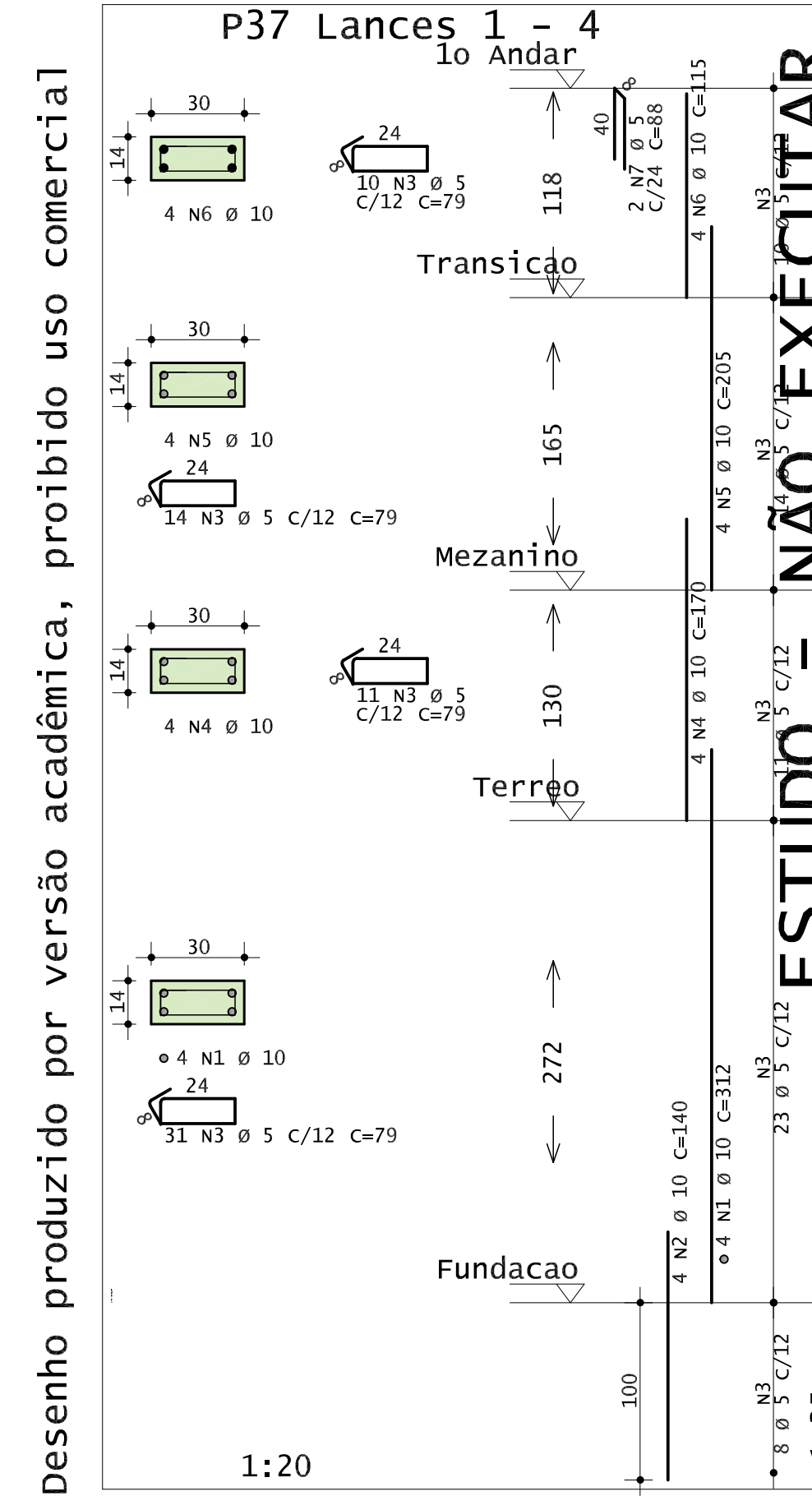
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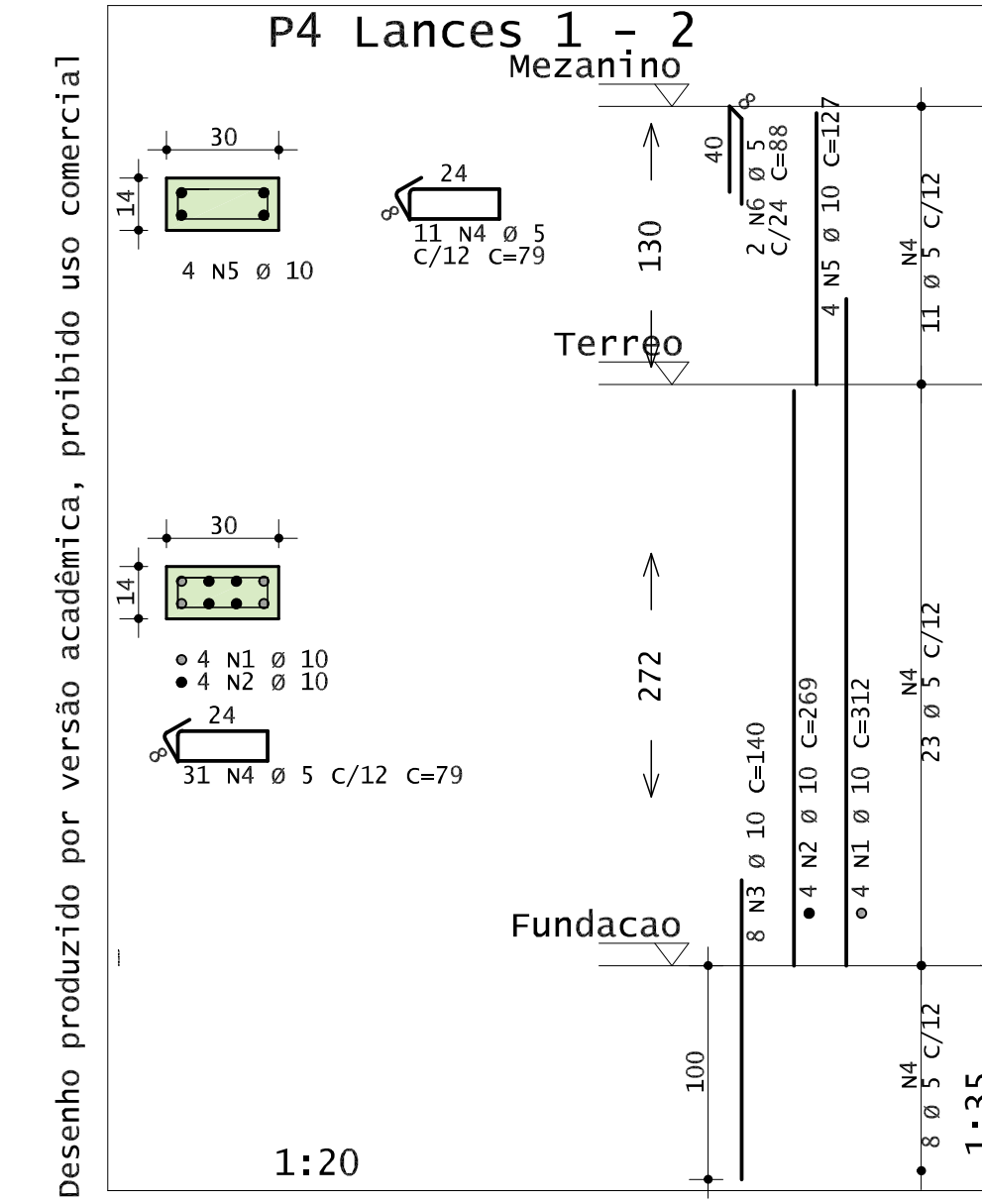
ESTUDO – NÃO EXECUTAR



ESTUDO – NÃO EXECUTAR



ESTUDO – NÃO EXECUTAR



Desenho produzido por versão acadêmica, proibido uso comercial

RESUMO DE AÇO			
ACO	BIT (mm)	COMPR (m)	PESO (kg)
60A	5	1178	181
60A	10	1440	457
Peso Total		60A =	181 kg
Peso Total		50A =	457 kg

ACO	POS	BIT (mm)	QUANT	COMPRIMENTO UNIT (cm)	TOTAL (cm)
P1 Lances 1 - 2					
50A	1	10	4	312	1248
50A	2	10	4	140	560
60A	3	5	42	91	3822
60A	4	5	42	91	3822
60A	5	5	2	89	178
P2 Lances 1 - 2					
50A	1	10	4	312	1248
50A	2	10	4	140	560
60A	3	5	42	91	3822
60A	4	5	2	89	178
P3 Lances 1 - 2					
50A	1	10	4	312	1248
50A	2	10	4	140	560
60A	3	5	42	79	3318
60A	4	5	2	88	176
P4 Lances 1 - 2					
50A	1	10	4	312	1248
50A	2	10	4	269	1076
60A	3	5	42	79	3318
60A	4	5	42	79	3318
60A	6	5	2	88	176
P5 Lance 1					
50A	1	10	4	269	1076
50A	2	10	4	140	560
60A	3	5	31	79	2449
60A	4	5	2	88	176
P6 Lance 1					
50A	1	10	4	269	1076
50A	2	10	4	140	560
60A	3	5	31	79	2449
60A	4	5	2	88	176
P7 Lances 1 - 2					
50A	1	10	4	312	1248
50A	2	10	4	140	560
60A	3	5	42	79	3318
60A	4	5	2	88	176
P10 Lance 1					
50A	1	10	4	269	1076
50A	2	10	4	140	560
60A	3	5	31	79	2449
60A	4	5	2	88	176
P11 Lances 1 - 2					
50A	1	10	4	312	1248
50A	2	10	4	140	560
60A	3	5	42	79	3318
60A	4	5	2	88	176
P12 Lance 1					
50A	1	10	4	269	1076
50A	2	10	4	140	560
60A	3	5	31	79	2449
60A	4	5	2	88	176
P13 Lance 1					
50A	1	10	4	269	1076
50A	2	10	4	140	560
60A	3	5	31	79	2449
60A	4	5	2	88	176
P14 Lances 1 - 2					
50A	1	10	4	312	1248
50A	2	10	4	140	560
60A	3	5	42	79	3318
60A	4	10	4	127	508
60A	5	5	2	88	176
P18 Lances 1 - 2					
50A	1	10	4	312	1248
50A	2	10	4	140	560
60A	3	5	42	79	3318
60A	4	5	2	88	176
P20 Lances 1 - 2					
50A	1	10	4	312	1248
50A	2	10	4	140	560
60A	3	5	42	79	3318
60A	4	10	4	127	508
60A	5	5	2	88	176
P21 Lances 1 - 2					
50A	1	10	4	312	1248
50A	2	10	4	140	560
60A	3	5	42	79	3318
60A	4	5	2	88	176
P23 Lances 1 - 2					
50A	1	10	4	312	1248
50A	2	10	4	140	560
60A	3	5	66	79	5214
60A	4	10	4	170	680
60A	5	10	4	205	820
60A	7	5	2	115	460
P24 Lance 1					
50A	1	10	4	269	1076
50A	2	10	4	140	560
60A	3	5	31	79	2449
60A	4	5	2	88	176
P25 Lances 1 - 2					
50A	1	10	6	312	1872
50A	2	10	6	140	840
60A	3	5	42	139	834
60A	4	5	42	24	1008
60A	5	10	6	127	762
60A	6	5	3	88	264
P27 Lance 1					
50A	1	10	4	269	1076
50A	2	10	4	140	560
60A	3	5	31	79	2449
60A	4	5	2	88	176
P28 Lances 1 - 2					
50A	1	10	4	312	1248
50A	2	10	4	140	560
60A	3	5	42	79	3318
60A	4	10	4	127	508
60A	5	5	2	88	176
P30 Lances 1 - 4					
50A	1	10	4	312	1248
50A	2	10	4	140	560
60A	3	5	66	79	5214
60A	4	10	4	170	680
60A	5	10	4	205	820
60A	6	10	4	115	460
60A	7	5	2	88	176
P31 Lance 1					
50A	1	10	4	269	1076
50A	2	10	4	140	560
60A	3	5	31	79	2449
60A	4	5	2	88	176
P32 Lances 1 - 2					
50A	1	10	4	312	1248
50A	2	10	4	140	560
60A	3	5	42	79	3318
60A	4	10	4	127	508
60A	5	5	2	88	176
P33 Lances 1 - 2					
50A	1	10	4	312	1248
50A	2	10	16	269	4304
60A	3	5	42	79	3318
60A	4	5	42	79	3318
60A	5	5	2	88	176
P34 Lance 1					
50A	1	10	16	269	4304
50A	2	10	16	140	2240
60A	3	5	31	139	4930
60A	4	5	31	139	4930
60A	5	5	124	24	2976
P35 Lances 1 - 4					
50A	1	10	4	312	1248
50A	2	10	4	140	560
60A	3	5	66	79	5214
60A	4	5	4	170	680
60A	5	10	4	205	820
60A	7	5	2	115	460
P36 Lance 1					
50A	1	10	10	269	2690
50A	2	10	10	140	1400
60A	3	5	42	79	3318
60A	4	5	93	24	2232
60A	5	5	5	88	440
P37 Lances 1 - 4					
50A	1	10	4	312	1248
50A	2	10	4	140	560
60A	3	5	66	79	5214
60A	4	5	4	170	680
60A	5	10	4	205	820
60A	6	10	4	115	460
60A	7	5	2	88	176