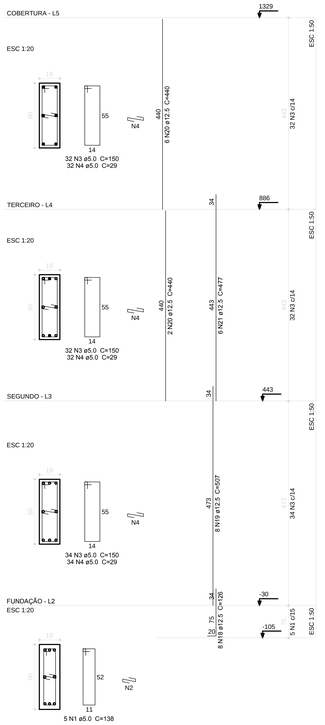
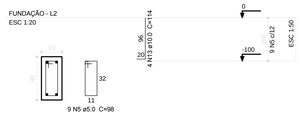
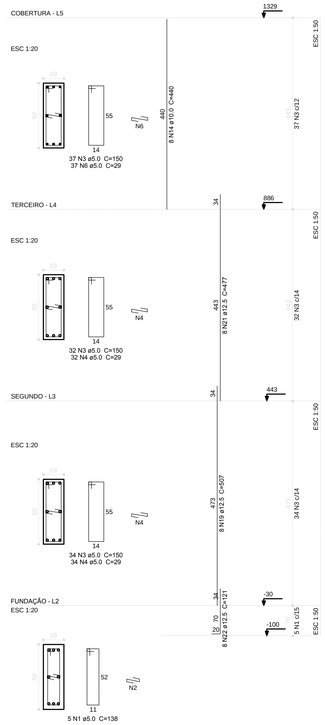
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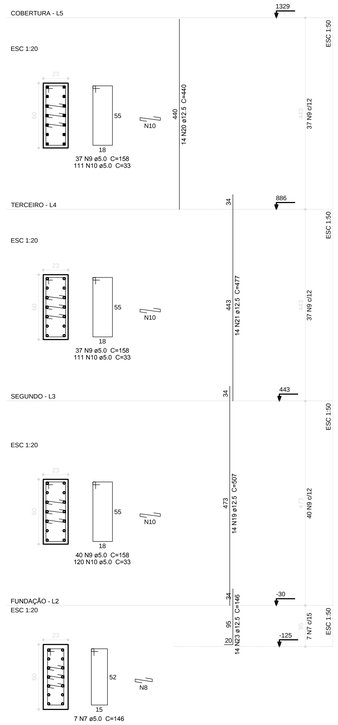
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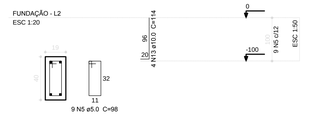
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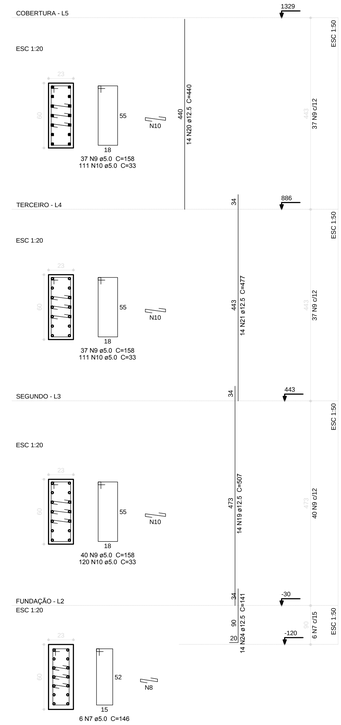
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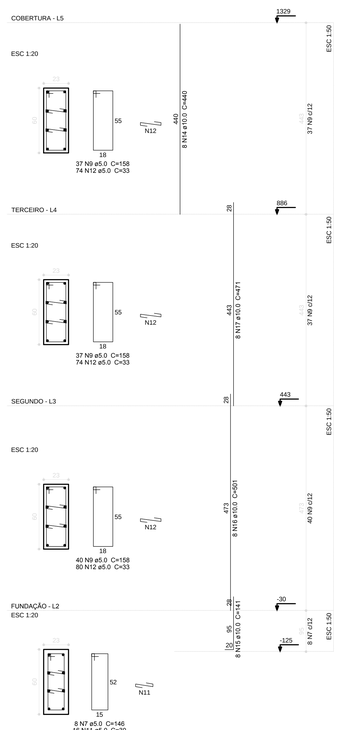
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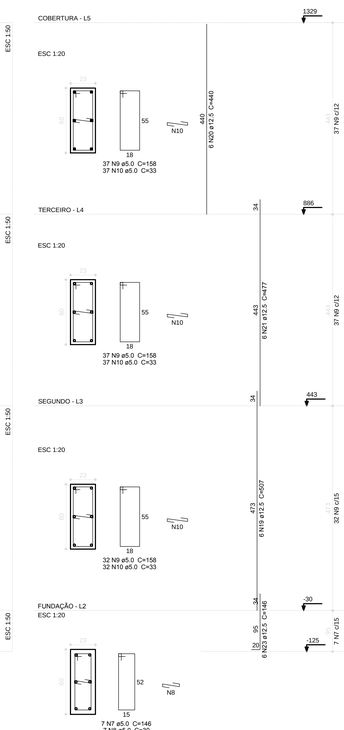
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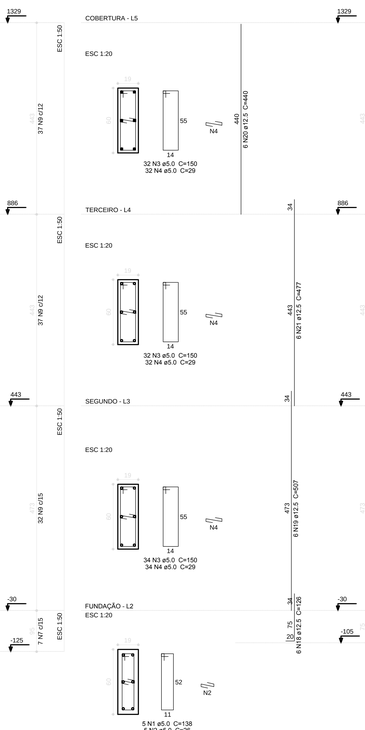
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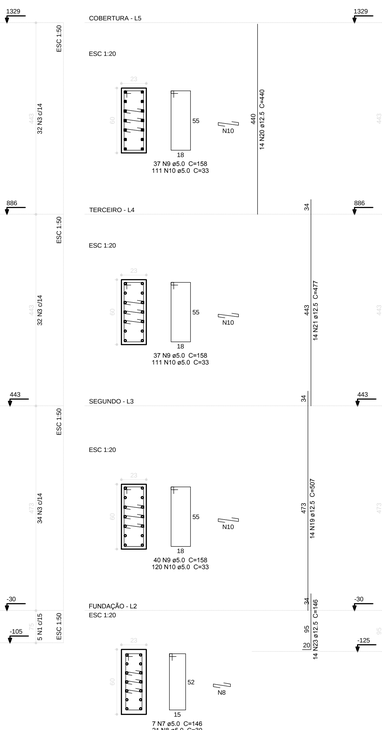
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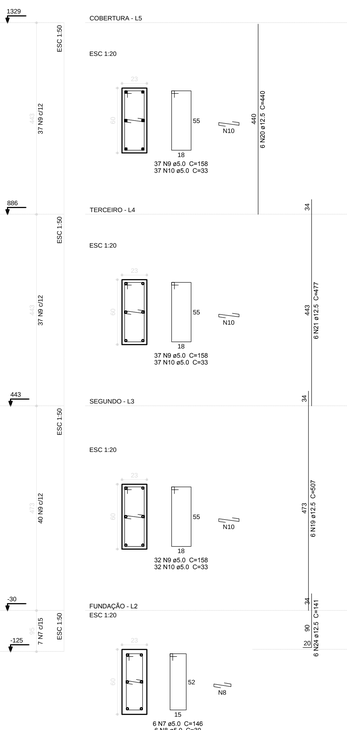
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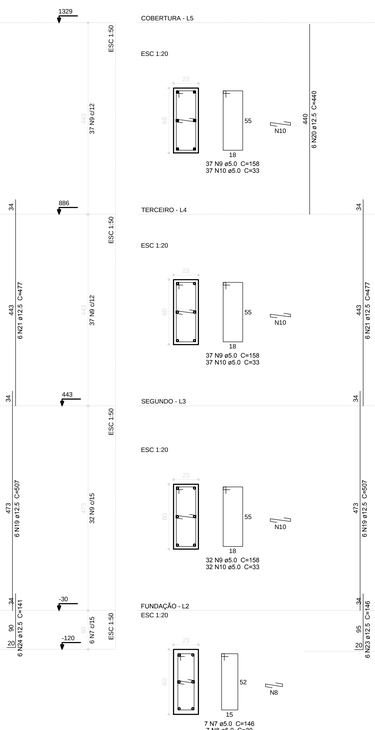
P10



P11



P12



Relação do aço

P1	P2	P3
P4	P5	P6
P7	P8	P9
P10	P11	P12

AÇO	N	DIAM (mm)	QUANT (Barras)	UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	15	138	2070
	2	5.0	15	26	390
	3	5.0	299	150	44850
	4	5.0	262	29	7598
	5	5.0	18	98	1764
	6	5.0	37	29	1073
	7	5.0	48	146	7008
	8	5.0	80	30	2400
	9	5.0	774	158	122292
	10	5.0	1344	33	44352
	11	5.0	16	30	480
	12	5.0	228	33	7524
CA50	13	10.0	8	114	912
	14	10.0	16	440	7040
	15	10.0	8	141	1128
	16	10.0	8	501	4008
	17	10.0	8	471	3768
	18	12.5	14	126	1764
	19	12.5	82	507	41574
	20	12.5	74	440	32560
	21	12.5	80	477	38160
	22	12.5	8	121	968
	23	12.5	40	146	5840
	24	12.5	20	141	2820

Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	10.0	168.6	114.3
	12.5	1236.9	1310.7
CA60	5.0	2418.1	410

PESO TOTAL (kg)	
CA50	1425
CA60	410

Volume de concreto (C-40) = 19.08 m³
Área de forma = 239.04 m²

REVISÃO	OBSERVAÇÃO	DATA

MINISTÉRIO DA EDUCAÇÃO
UNIVERSIDADE FEDERAL DE LAVRAS

PROJETO

TÍTULO:
PROJETO EXECUTIVO - ENGENHARIAS

CONTEÚDO:
PROJETO DE ESTRUTURA
PILARES: P1 À P12

AUTOR DO PROJETO:
MARIUS OLIVEIRA COSTA CREA 90786/D

EXECUÇÃO DE OBRA:

APROVAÇÃO DO LAYOUT (PROF. RESPONSÁVEL):

DATA:	REVISÃO DATA:	PROJETO:
03/09/2018		ESTRUTURA
ESCALA: INDICADA	ÁREA: (m²) 4772.00 m²	FOLHA: 33/40