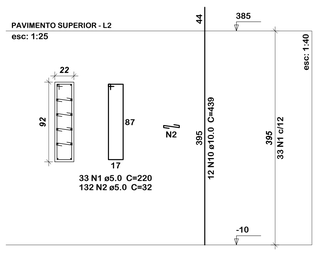
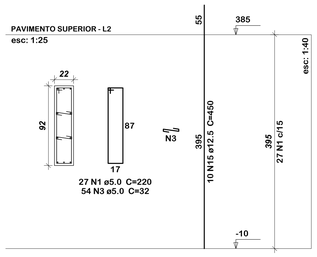
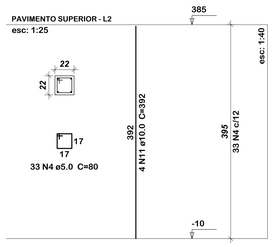
P1=P2=P3=P4=P5=P6=P7 =P8=P9=P11=P12=P13 =P14=P15=P16=P17



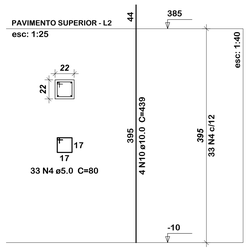
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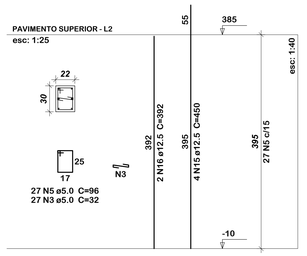
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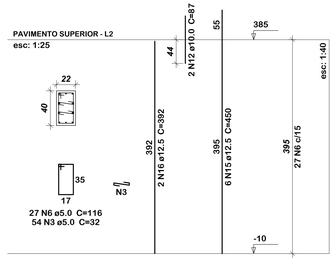
P19=P30=P39=P63=P64



P20



P21



Relação do aço
Pilares que suportam o Pavimento Superior

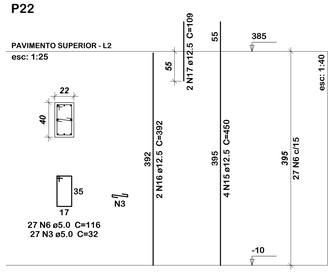
AÇO	N	DIAM (mm)	QUANT (Barras)	UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	555	220	122100
	2	5.0	2706	32	86592
	3	5.0	189	32	6048
	4	5.0	264	80	21120
	5	5.0	333	96	31968
	6	5.0	723	116	83868
	7	5.0	70	70	4900
	8	5.0	93	82	7626
	9	5.0	33	25	825
CA50	10	10.0	358	439	157162
	11	10.0	14	392	5488
	12	10.0	2	87	174
	13	10.0	8	147	1176
	14	10.0	12	252	3024
	15	12.5	70	450	33300
	16	12.5	22	392	7056
	17	12.5	2	109	218

Resumo do aço

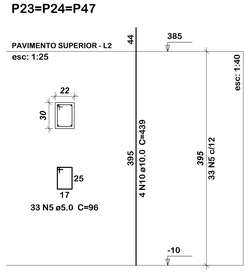
AÇO	DIAM (mm)	C.TOTAL (m)	PESO (kg)
CA50	10.0	1670.3	1029.8
	12.5	405.8	390.9
CA60	5.0	3650.5	562.7
PESO TOTAL (kg)			
CA50	1420.6		
CA60	562.7		

Volume de concreto (C-20) = 26.82 m³
Área de forma = 355.74 m²

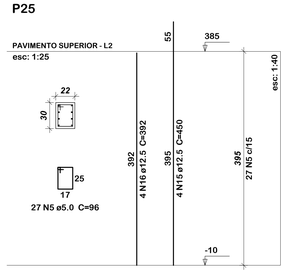
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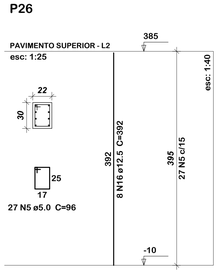
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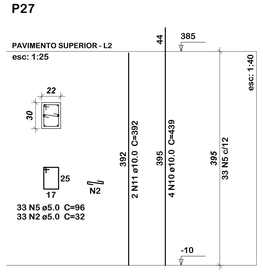
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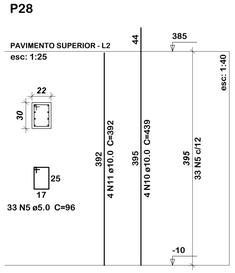
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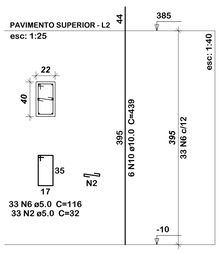
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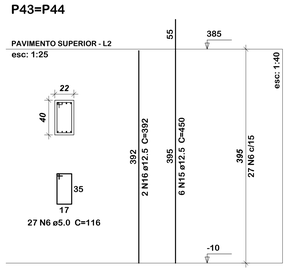
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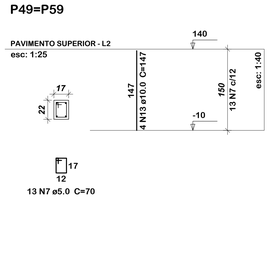
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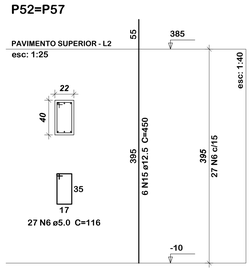
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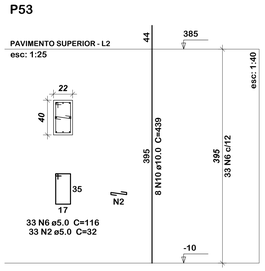
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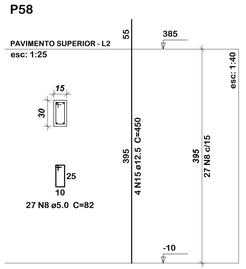
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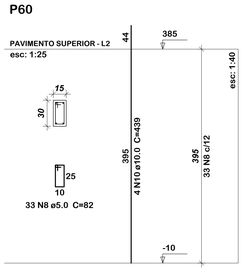
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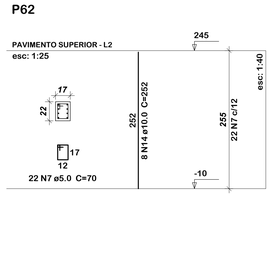
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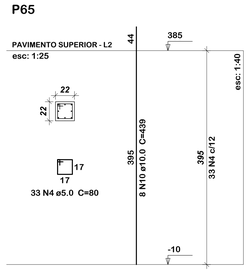
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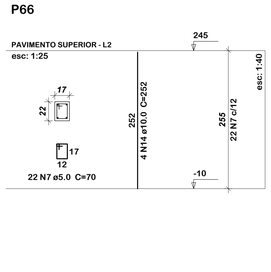
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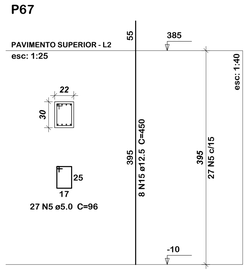
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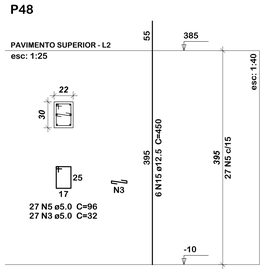
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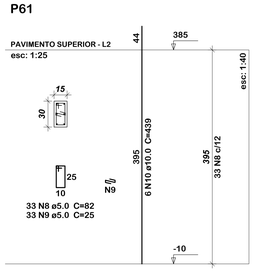
P67



P48



P61



MINISTÉRIO DA EDUCAÇÃO
UNIVERSIDADE FEDERAL DE LAVRAS

EMPRESA
EMPRESA: AS BUILT ENGENHARIA DE PROJETOS LTDA
CNPJ: 09.480.531/0001-01

TÍTULO: PROJETO ESTRUTURAL DBI

CONTEÚDO: FERRAGEM DOS PILARES: QUE SUPORTAM O PAVIMENTO SUPERIOR

PROJETO
AUTOR DO PROJETO: CARLOS HENRIQUE DE SOUZA GONÇALVES, ENGENHEIRO CIVIL - CREA-FR.76620
EXECUÇÃO DE OBRA:

DATA:	REVISÃO DATA:	PROJETO:
12/2014	-	EXECUTIVO
ESCALA:	ÁREA: (m²)	FOLHA:
INDICADA	1.859,96	EST 08 /20