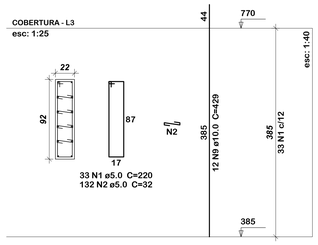
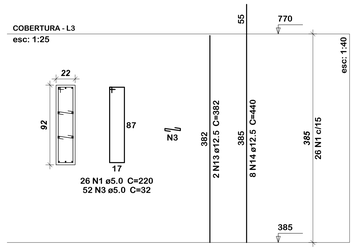
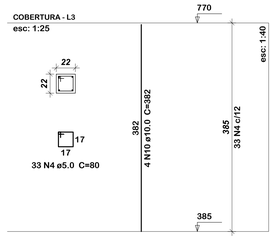
P1=P2=P3=P4=P5=P6 =P7=P8=P9=P11=P12=P13 =P14=P15=P16=P17



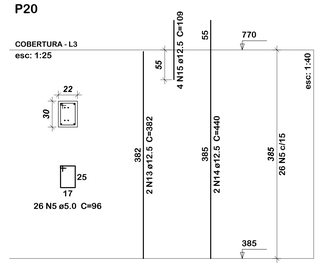
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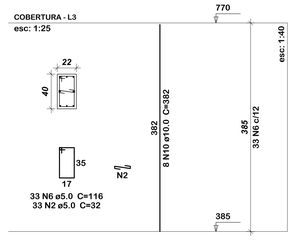
P19=P30=P39



P20



P21



Relação do aço Pilares que suportam a Cobertura

AÇO	N	DIAM (mm)	QUANT (Barras)	UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	554	220	121880
	2	5.0	2706	32	86592
	3	5.0	78	32	2496
	4	5.0	198	80	15840
	5	5.0	342	96	32832
	6	5.0	724	116	83984
	7	5.0	101	82	8282
	8	5.0	36	25	900
CA50	9	10.0	244	429	104676
	10	10.0	120	382	45840
	11	10.0	22	87	1914
	12	10.0	10	420	4200
	13	12.5	34	382	12988
	14	12.5	24	440	10560
	15	12.5	4	109	436
	16	12.5	4	420	1680

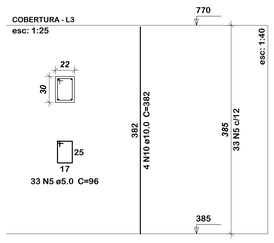
Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO (kg)
CA50	10.0	1566.3	965.7
	12.5	256.7	247.2
CA60	5.0	3528.1	543.8

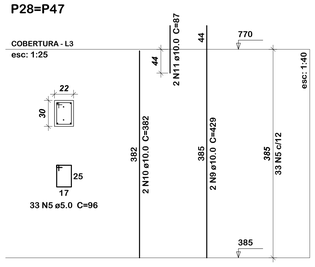
PESO TOTAL (kg)	
CA50	1212.9
CA60	543.8

Volume de concreto (C-20) = 25.52 m³
Área de forma = 334.82 m²

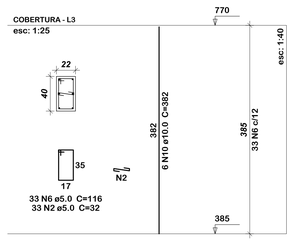
P23=P24=P25=P27



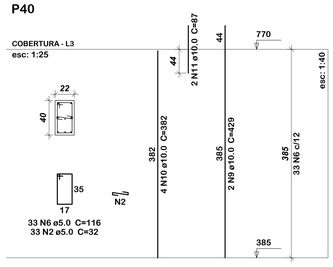
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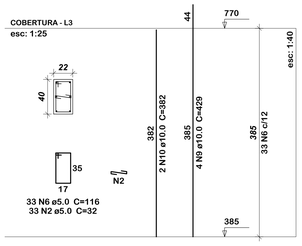
P31=P32=P33=P34=P36=P37=P38=P46



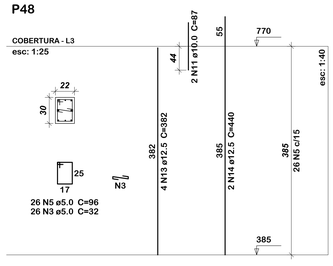
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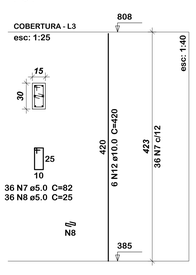
P41=P42=P45=P50=P51=P54=P55=P56



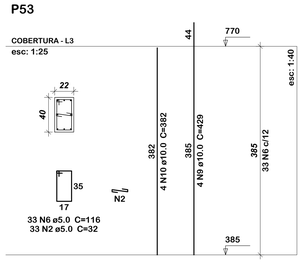
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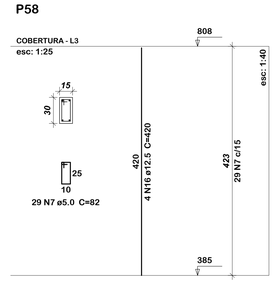
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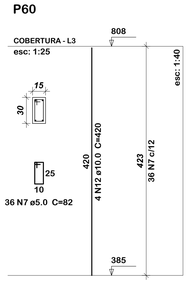
P53



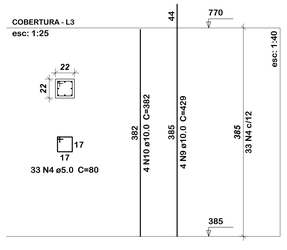
P58



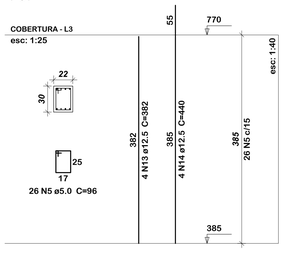
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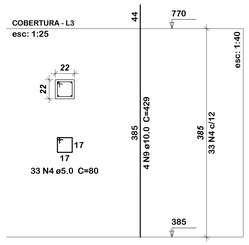
P65



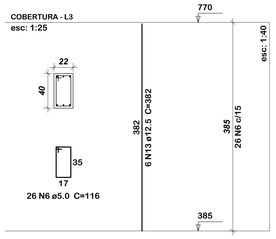
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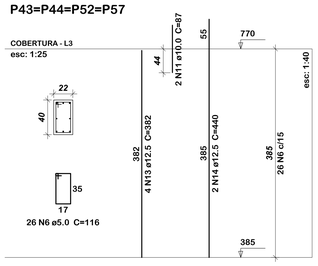
P63=P64



P22



P43=P44=P52=P57



MINISTÉRIO DA EDUCAÇÃO
UNIVERSIDADE FEDERAL DE LAVRAS

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

PROJETO

TÍTULO:
PROJETO ESTRUTURAL
DBI

CONTEÚDO:
FERRAGEM DOS PILARES:
QUE SUPORTAM A COBERTURA

AUTOR DO PROJETO:
CARLOS HENRIQUE DE SOUZA GONÇALVES
ENGENHEIRO CIVIL - CREA-PR 79DD

EXECUÇÃO DE OBRA:

DATA:	REVISÃO DATA:	PROJETO:
12/2014	.	EXECUTIVO
ESCALA:	ÁREA: (m²)	FOLHA:
INDICADA	1.859,96	EST 14 /20