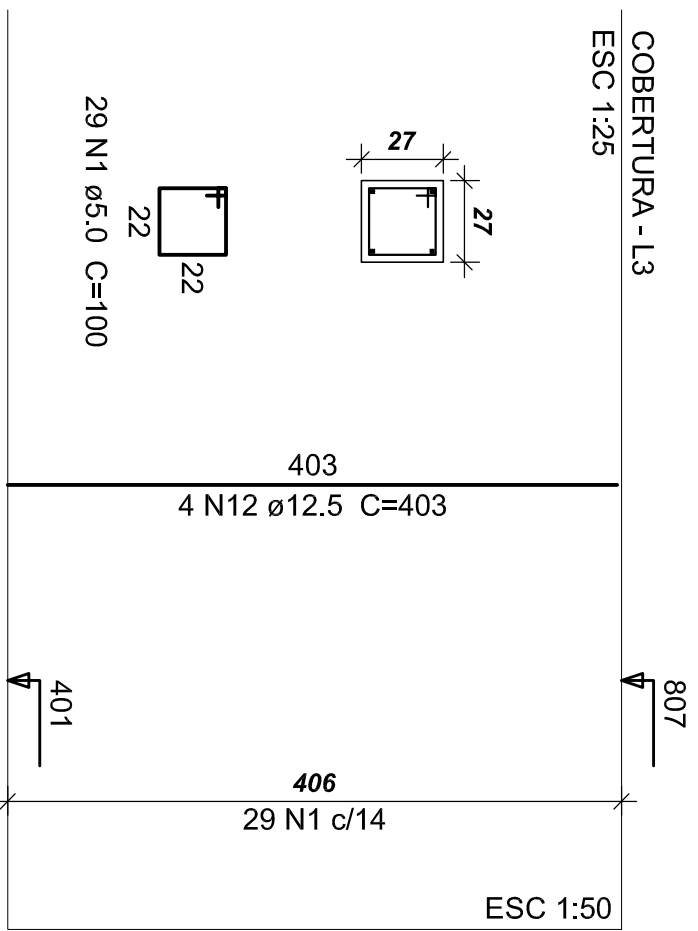
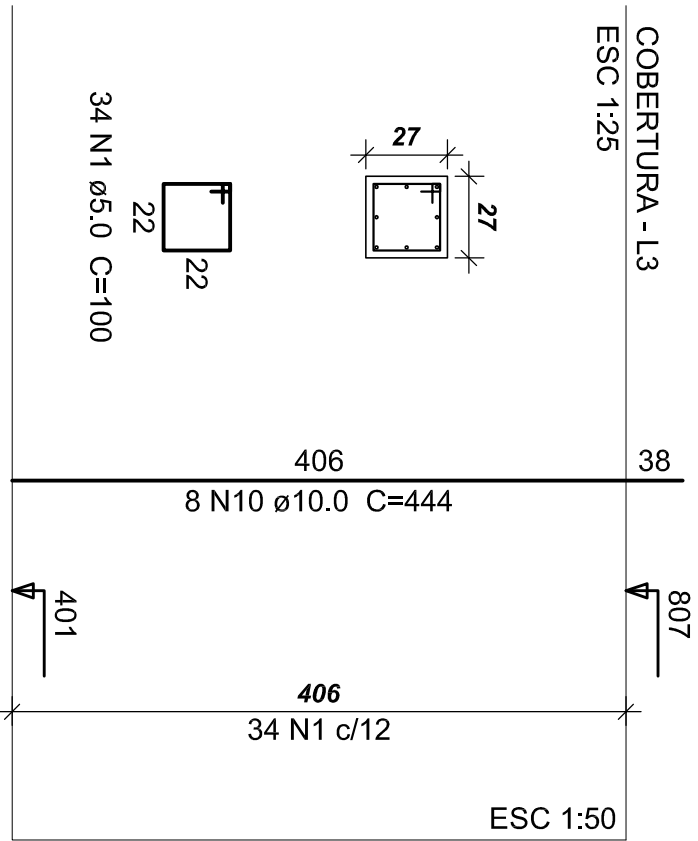


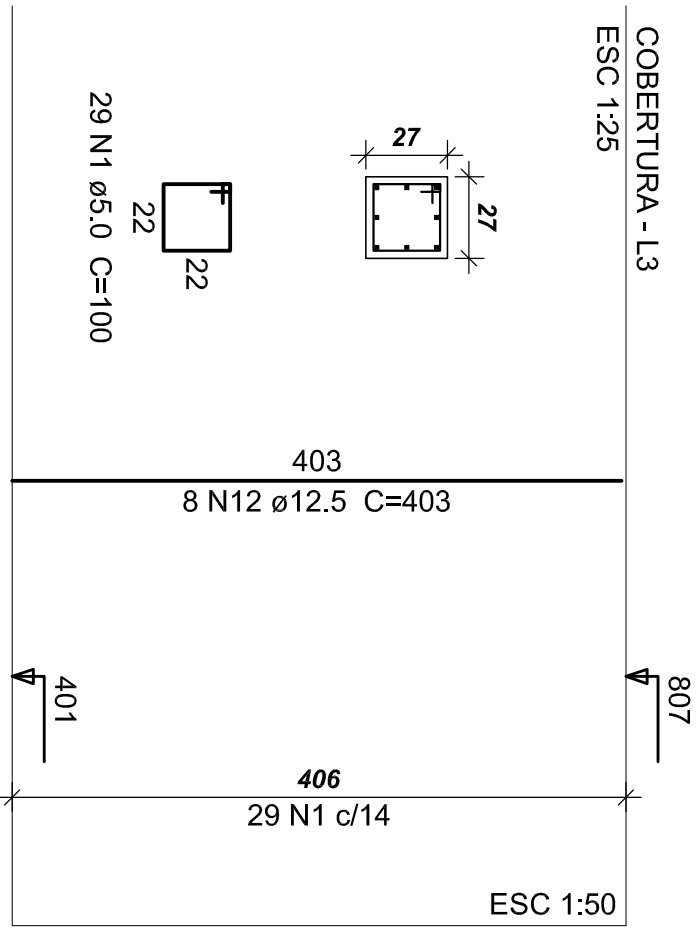
P11=P12=P17=P18=P31=P39
P44=P45=P46=P48
P52=P57=P63



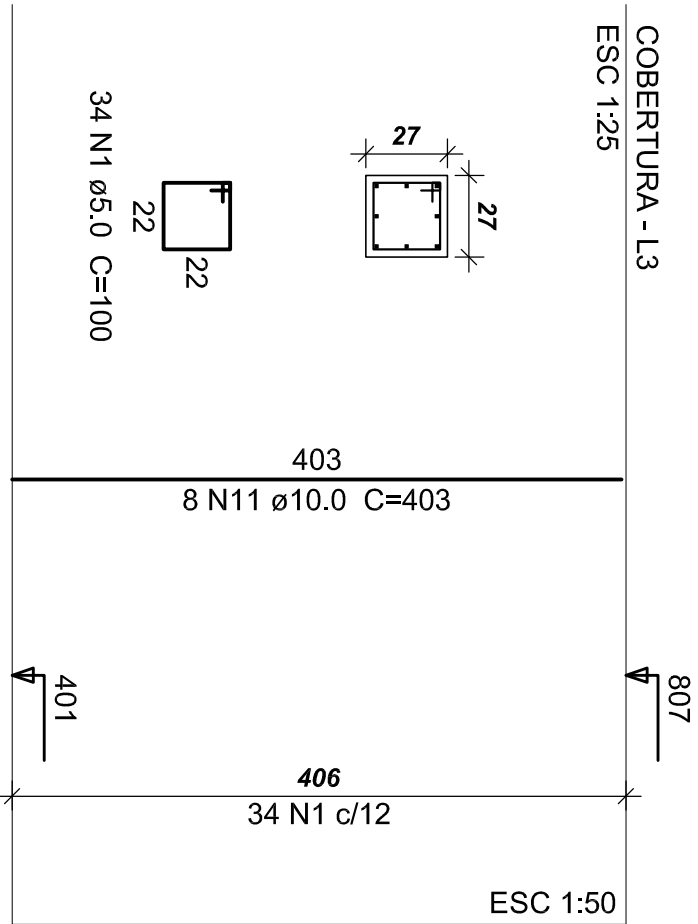
P14=P15



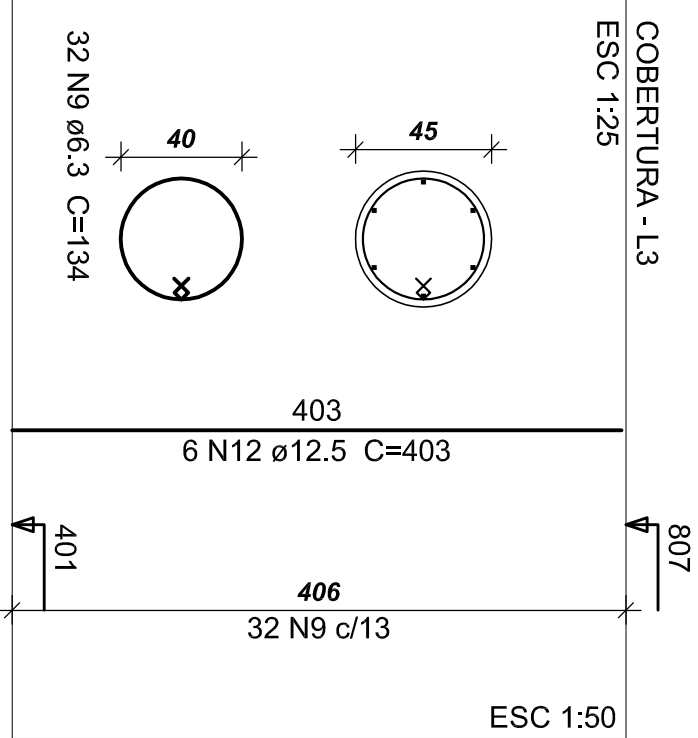
P19



P21=P67=P71



P50



Relação do aço
Pilares no Segundo Pav.
que suportam a Cobertura

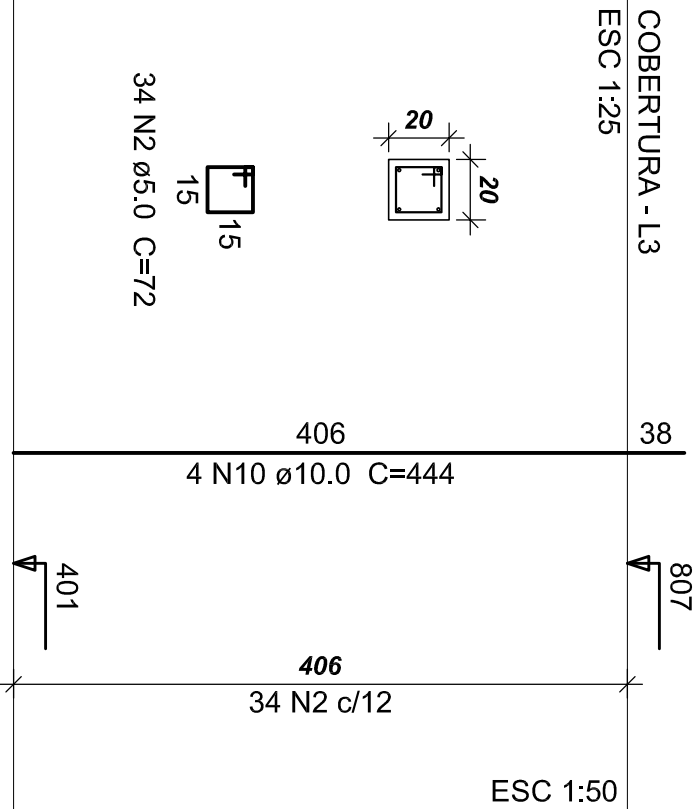
ACO	N	DIAM	Q	UNIT	C.TOTAL
CA60	1	5.0	1591	100	159100
	2	5.0	204	72	14688
	3	5.0	408	60	24480
	4	5.0	68	80	5440
	5	5.0	68	88	5984
	6	5.0	29	142	4118
	7	5.0	28	135	3780
	8	5.0	34	92	3128
CA50	9	6.3	32	134	4288
	10	10.0	24	444	10656
	11	10.0	224	403	90272
	12	12.5	72	403	29016
	13	16.0	8	403	3224

Resumo do aço

ACO	DIAM	C.TOTAL	PESO
CA60	6.3	42.9	10.5
	10.0	1009.3	622.3
	12.5	290.2	279.5
	16.0	32.3	50.9
CA60	5.0	2207.2	340.2
PESO TOTAL			
CA50		963.2	
CA60		340.2	

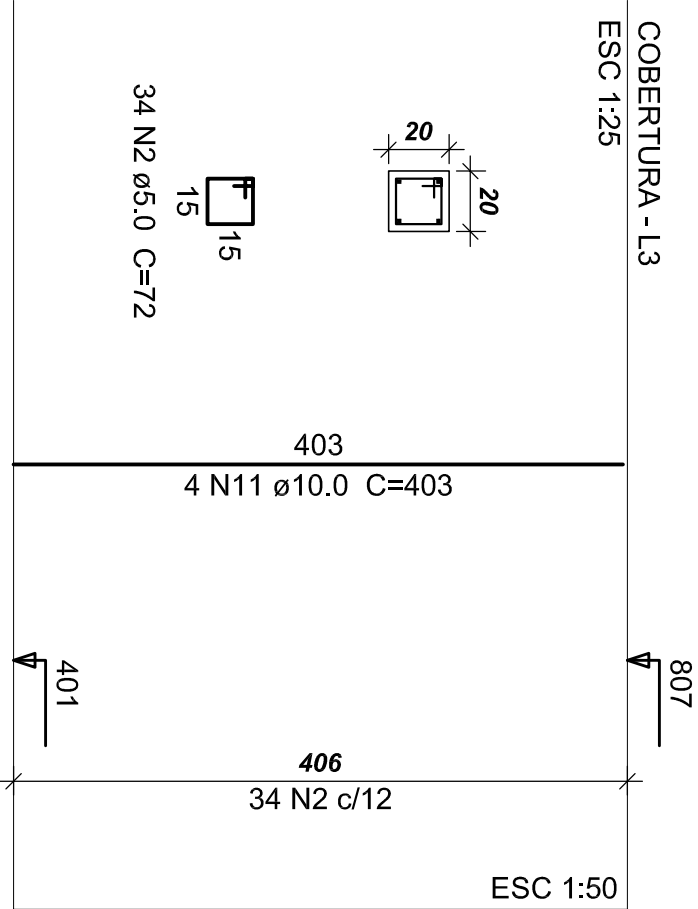
Vol. de concreto total (C-25) = 19.48 m³
Área de forma total = 300.23 m²

P11=P12=P17=P18=P31=P39
P44=P45=P46=P48
P52=P57=P63

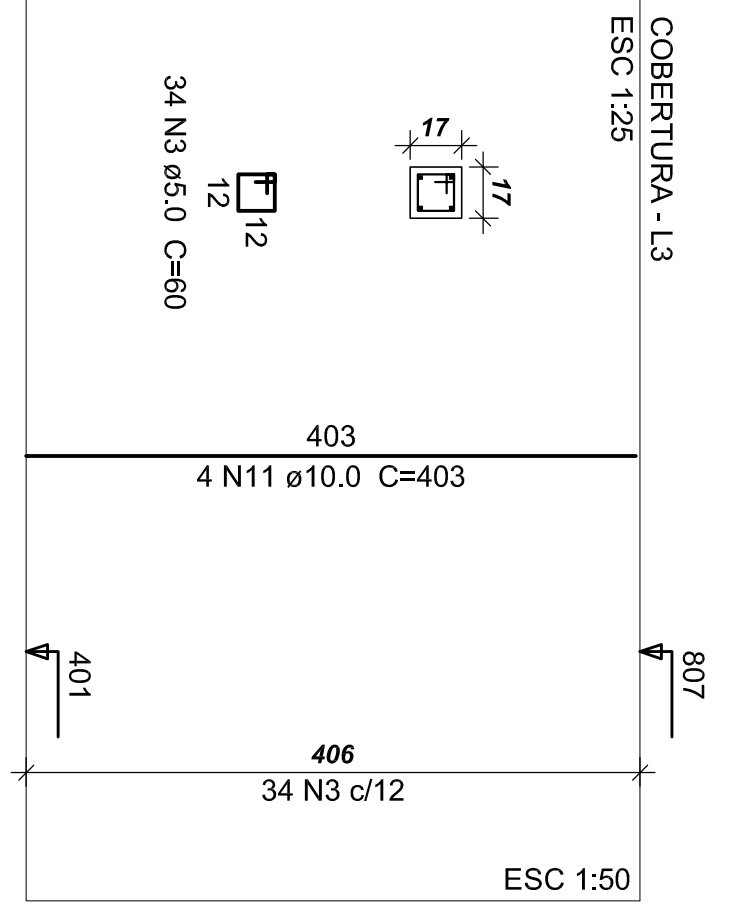


P25=P28

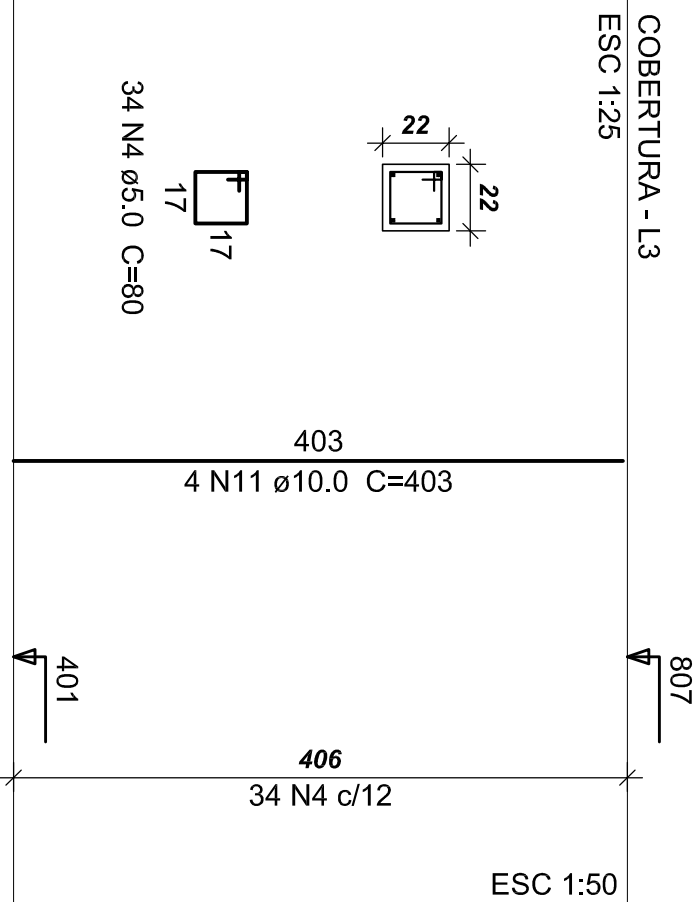
P26=P27=P29=P30



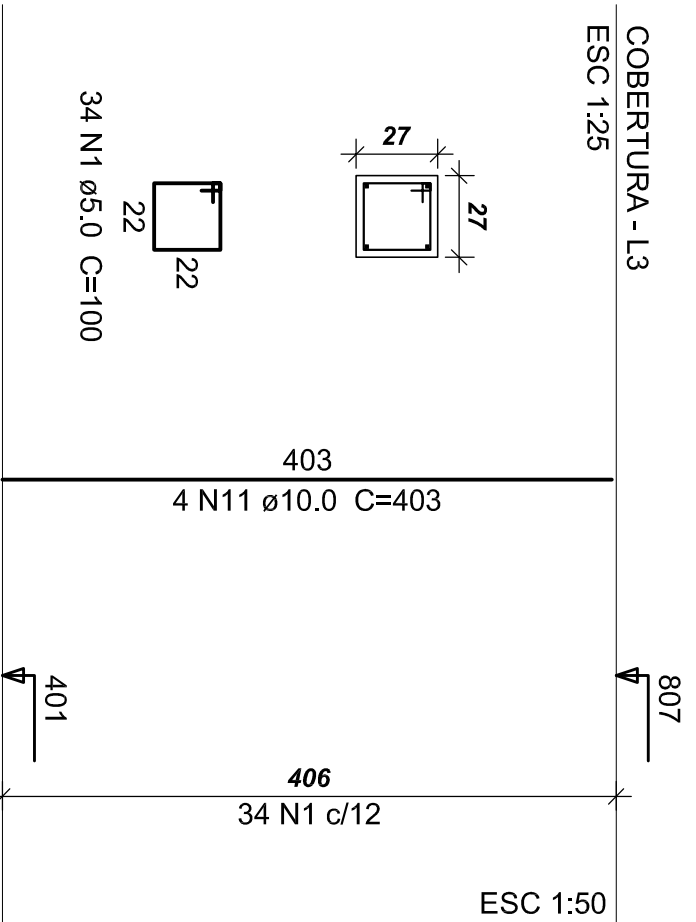
P3=P4=P5=P6=P7=P8
P73=P74=P75=P76=P77=P78



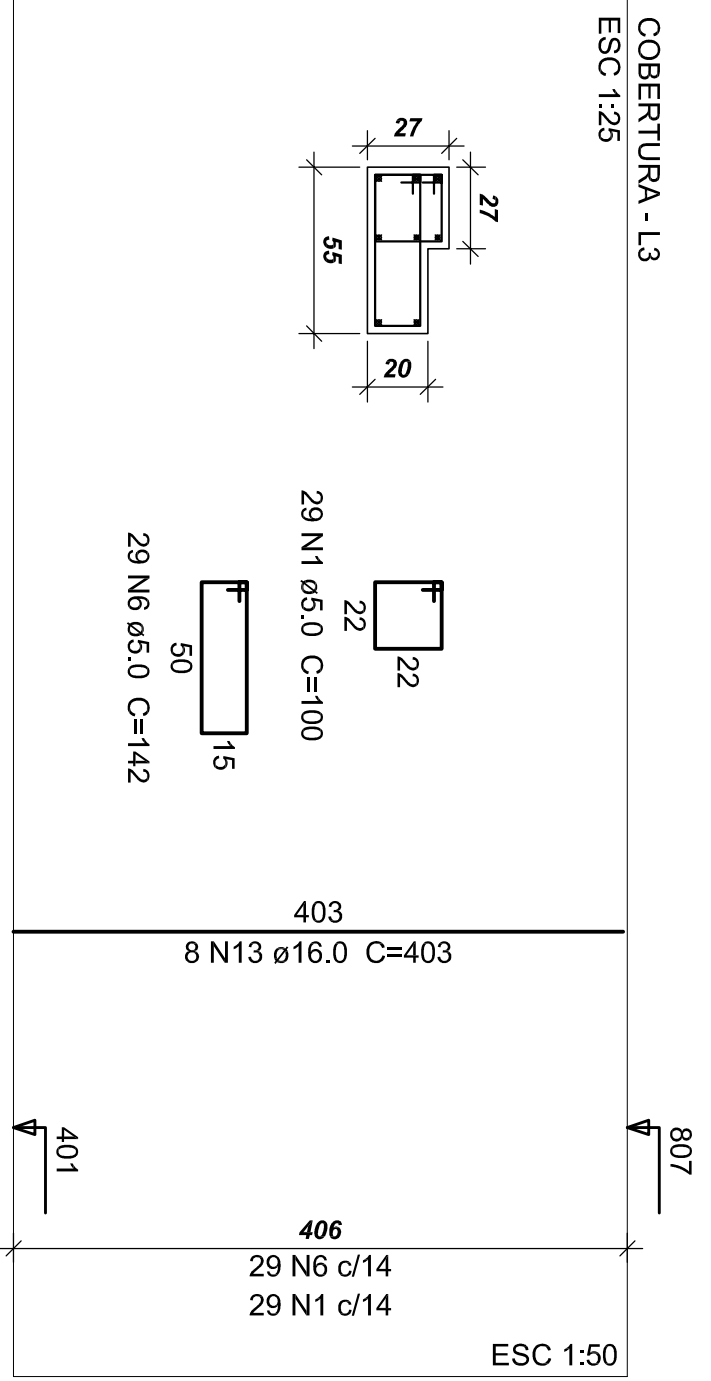
P38=P51



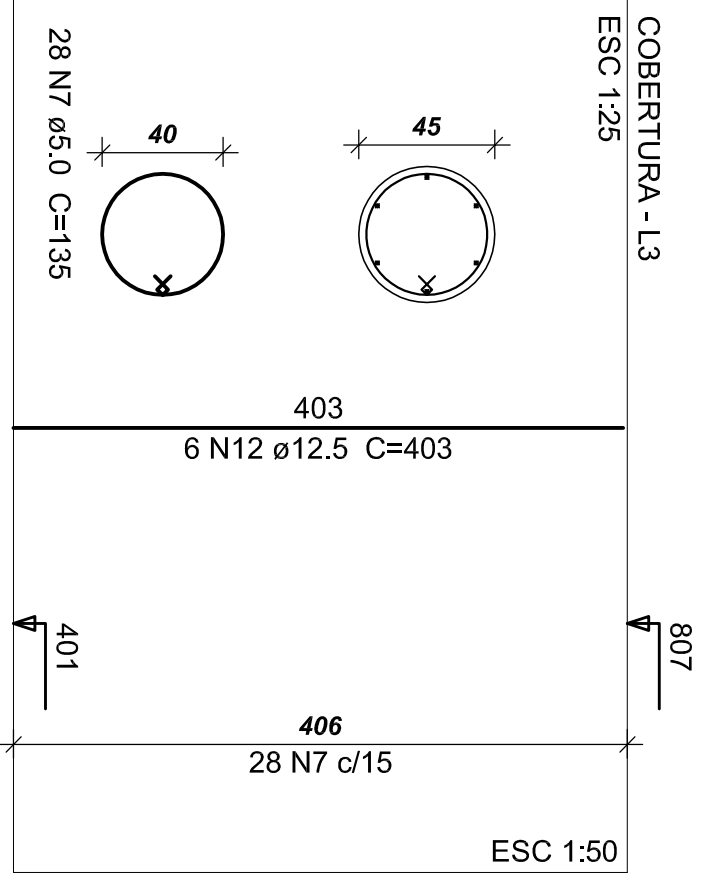
P9=P10=P13=P16=P20=P22=P32=P33=P34=P35
=P36=P37=P40=P41=P42=P43=P47=P49=P53
=P54=P55=P56=P60=P61=P62=P68=P69=P70
=P72



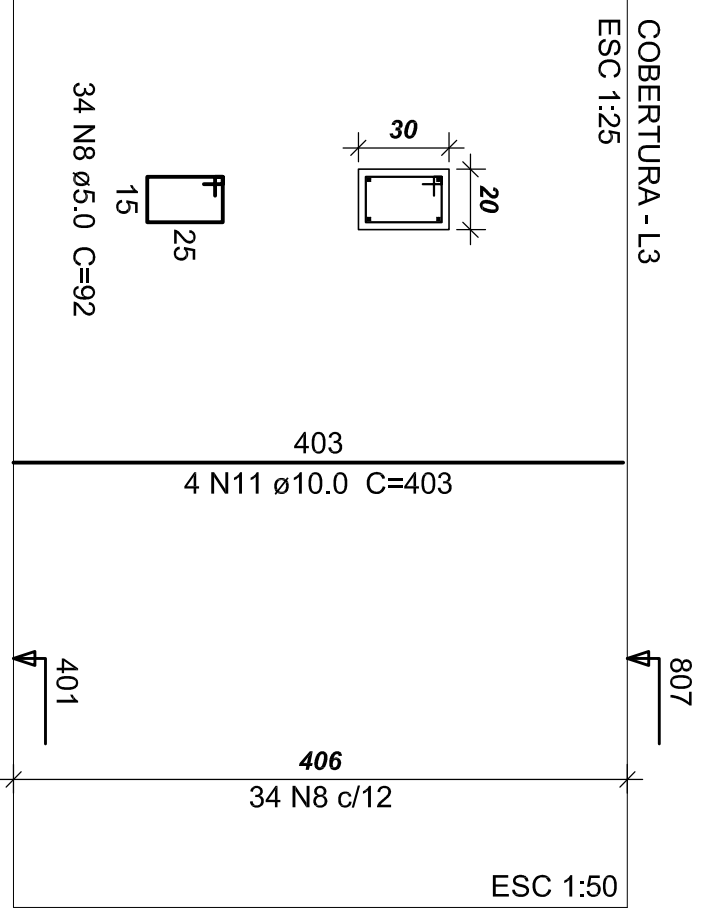
P64



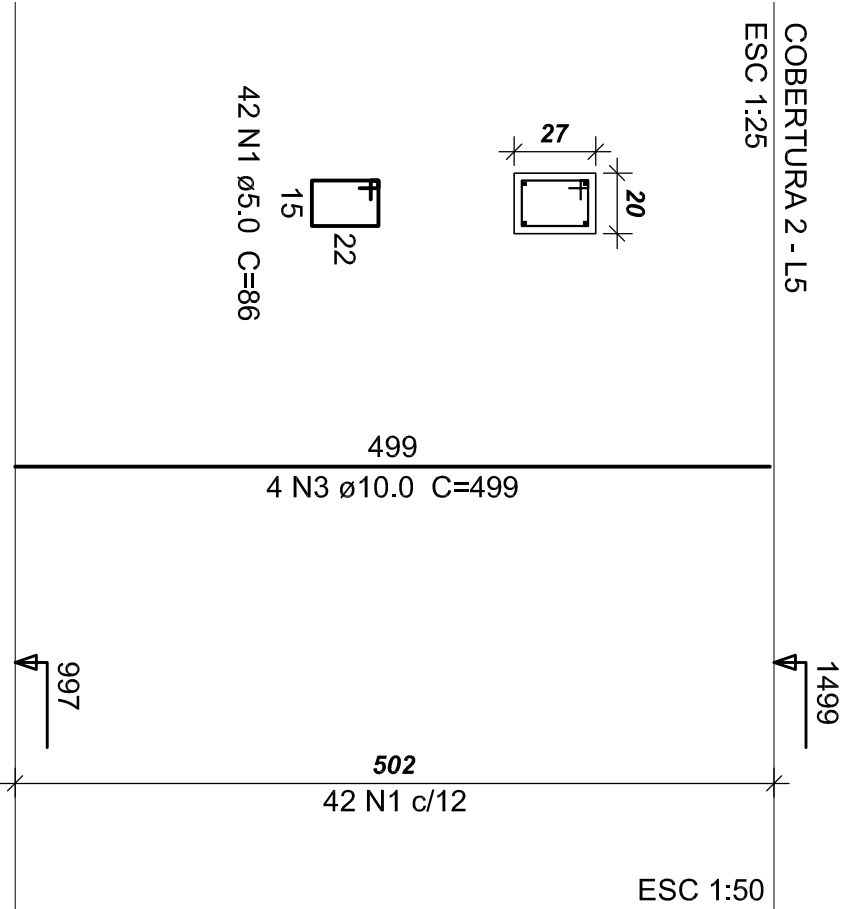
P65



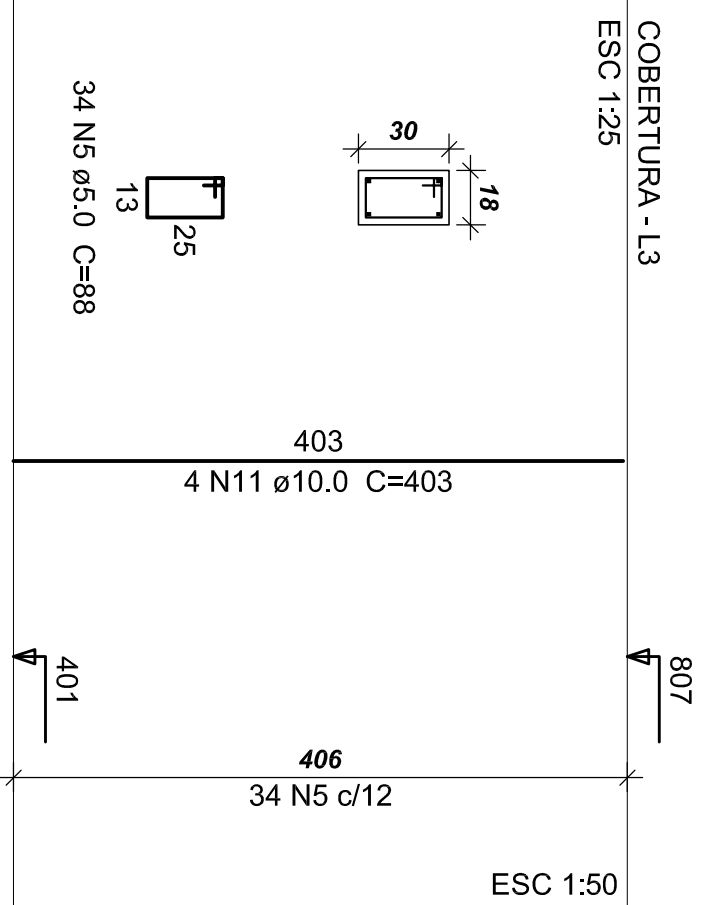
P66



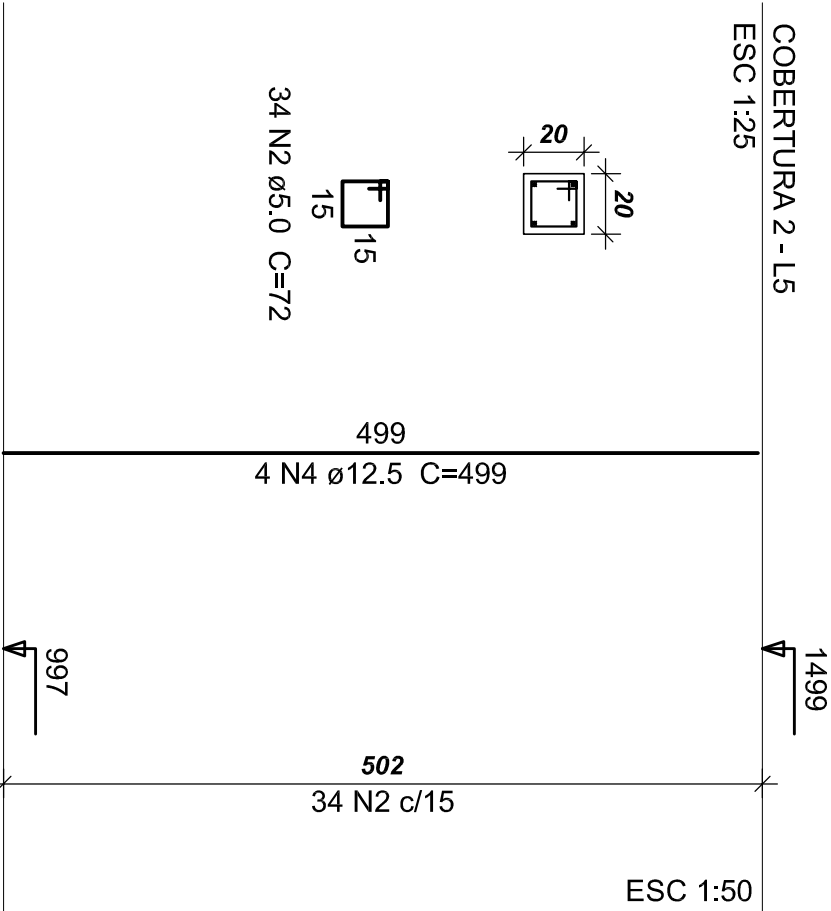
P14=P15



P58=P59



P79=P80



Relação do aço
Pilares no N. Reservatório
que suportam o N. Cobertura 2

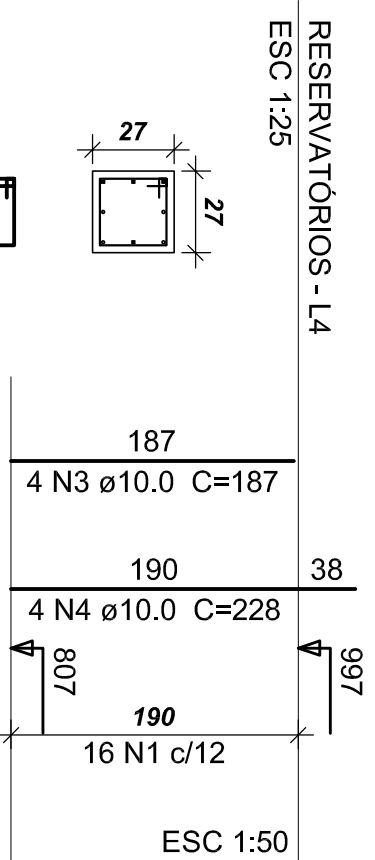
ACO	N	DIAM	Q	UNIT	C.TOTAL
CA60	1	5.0	84	86	7224
	2	5.0	68	72	4896
CA50	3	10.0	8	499	3992
	4	12.5	8	499	3992

Resumo do aço

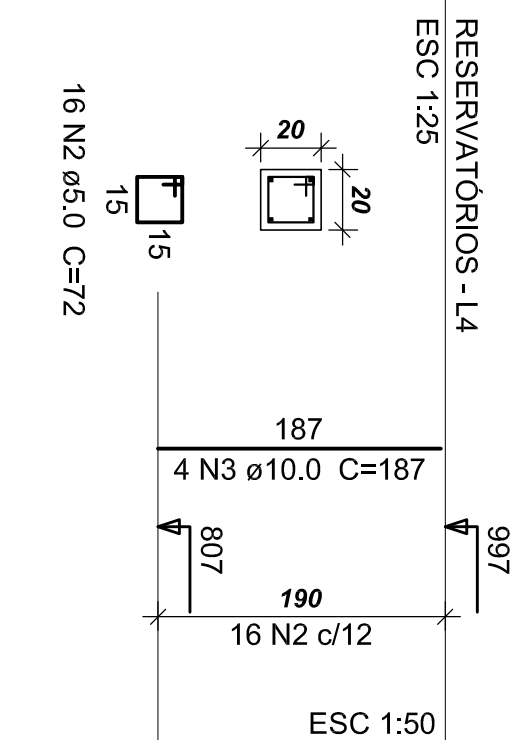
ACO	DIAM	C.TOTAL	PESO
CA50	10.0	40	24.6
	12.5	40	38.5
CA60	5.0	121.2	18.7
PESO TOTAL			
CA50		63.1	
CA60		18.7	

Vol. de concreto total (C-25) = 0.94 m³
Área de forma total = 17.47 m²

P14=P15



P25=P28



Relação do aço
Pilares na Cobertura
que suportam o N. Reservatório

ACO	N	DIAM	Q	UNIT	C.TOTAL
CA60	1	5.0	32	100	3200
	2	5.0	58	72	4176
CA50	3	10.0	16	187	2992
	4	10.0	8	228	1824
	5	12.5	8	237	1896

Resumo do aço

ACO	DIAM	C.TOTAL	PESO
CA50	10.0	48.2	29.7
	12.5	19	18.3
CA60	5.0	73.8	11.4
PESO TOTAL			
CA50		48	
CA60		11.4	

Vol. de concreto total (C-25) = 0.58 m³
Área de forma total = 10.16 m²

CD 1 - 15.06.2013		PROJETO ESTRUTURAL	
NR	DIAM	RESPONSÁVEL	DESCRIÇÃO DA REVISÃO
AS BUILT T ENGENHARIA DE PROJETOS LTDA			
Rua Avô do Rosário, 1564 - Boa Vista			
CEP 62864-435 - Curitiba - Paraná			
contato@asbuilt.com.br fone@asbuilt.com.br (41) 3086-9490			
PROJETO ESTRUTURAL			
CONFERIR MEDIDAS NA OBRA			
ADMINISTRAÇÃO			
CAMPUS JANAÚBA			
FERRAÇEM DOS PILARES			
AUTOR PROJETO:			
CARLOS HENRIQUE DE SOUZA GONÇALVES			
CREA 7982/D - Fº			
ESCALA: INDICADA		DESENHO: EQUIPE	
VERSÃO:	DATA:	ÁREA CONSTRUÇÃO:	FOYH: EST
VERSÃO 1	16/06/2013	3056,63m²	16/22
ARQUIVO:			