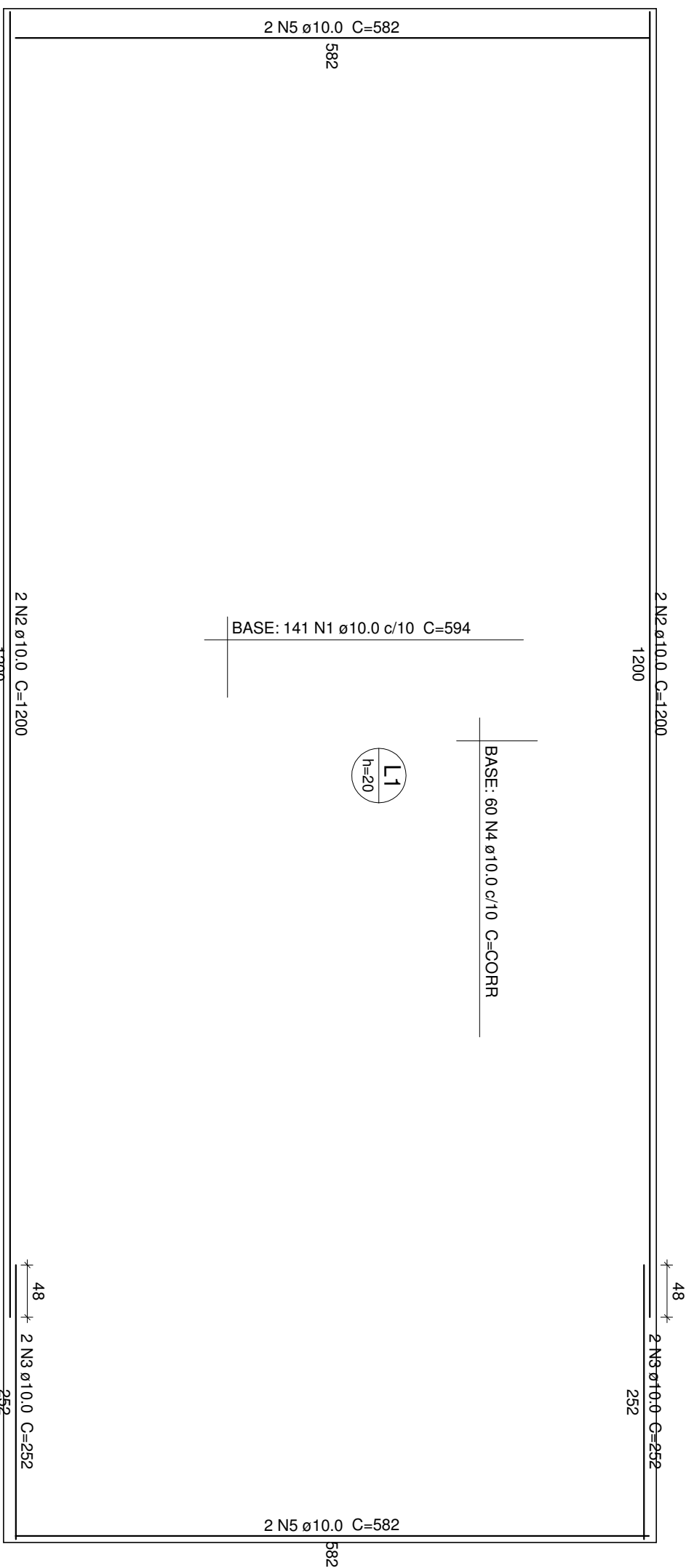
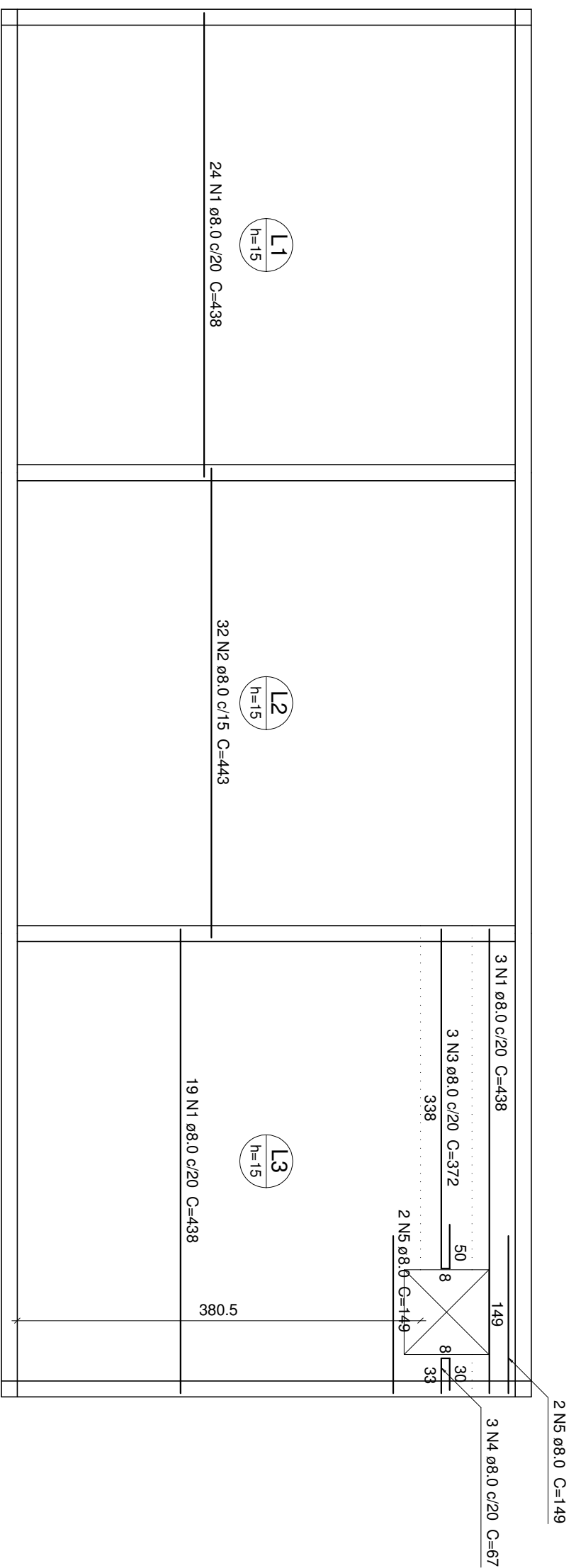


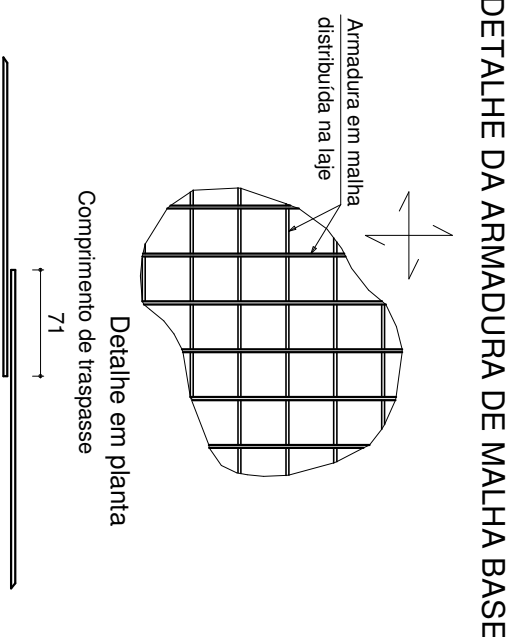
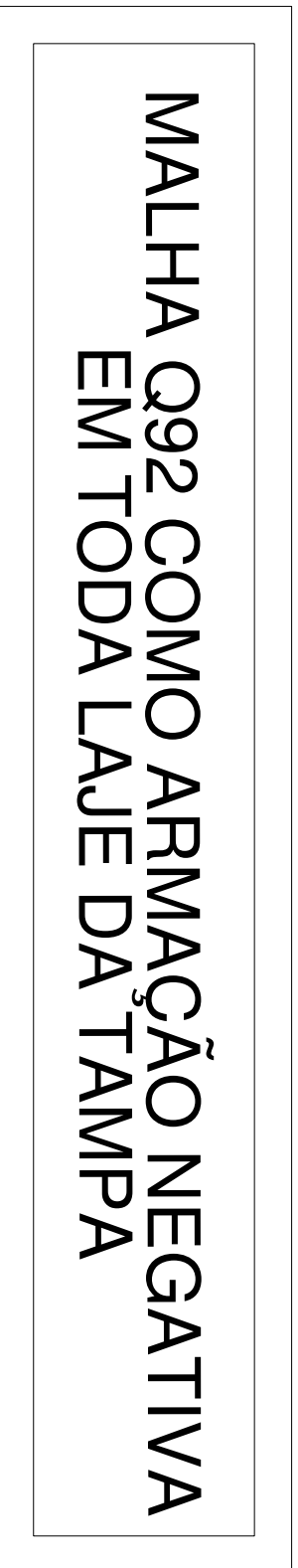
Armação SUPERIOR do radier do pavimento RADIER



Armação inferior do radier do pavimento RADIER



Armação positiva das lajes do pavimento TAMPA (Eixo X)



DETALHE DA ARMADURA DE MALHA BASE

SUPERIOR					
AÇO	N	DIAM	Q	UNIT (cm)	C.TOTAL (cm)
CA50	1	10,0	141	594	8375,4
	2	10,0	4	1200	4800
	3	10,0	4	252	1008
	4	10,0	60	CORR	8424,0
	5	10,0	4	562	2328

Relação do açç

AÇO	DIAM	C.TOTAL (m)	PESO + 10 % (kg)
CA50	10.0	1761.3	1194.5

Resumo do aço

CA50	1194.5
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Vol. de concreto total (C-30) = 12.69 m³
Área de forma total = 8.03 m²

Área de forma total = 8.03 m²

INFERIOR					
AÇO	N	DIAM	Q	UNIT (cm)	C:TOTAL (cm)
CA50	1	10,0	141	594	83754
	2	10,0	4	1200	4800
	3	10,0	4	252	1008
	4	10,0	60	CORR	84240
	5	10,0	4	582	2328

Relação do açç

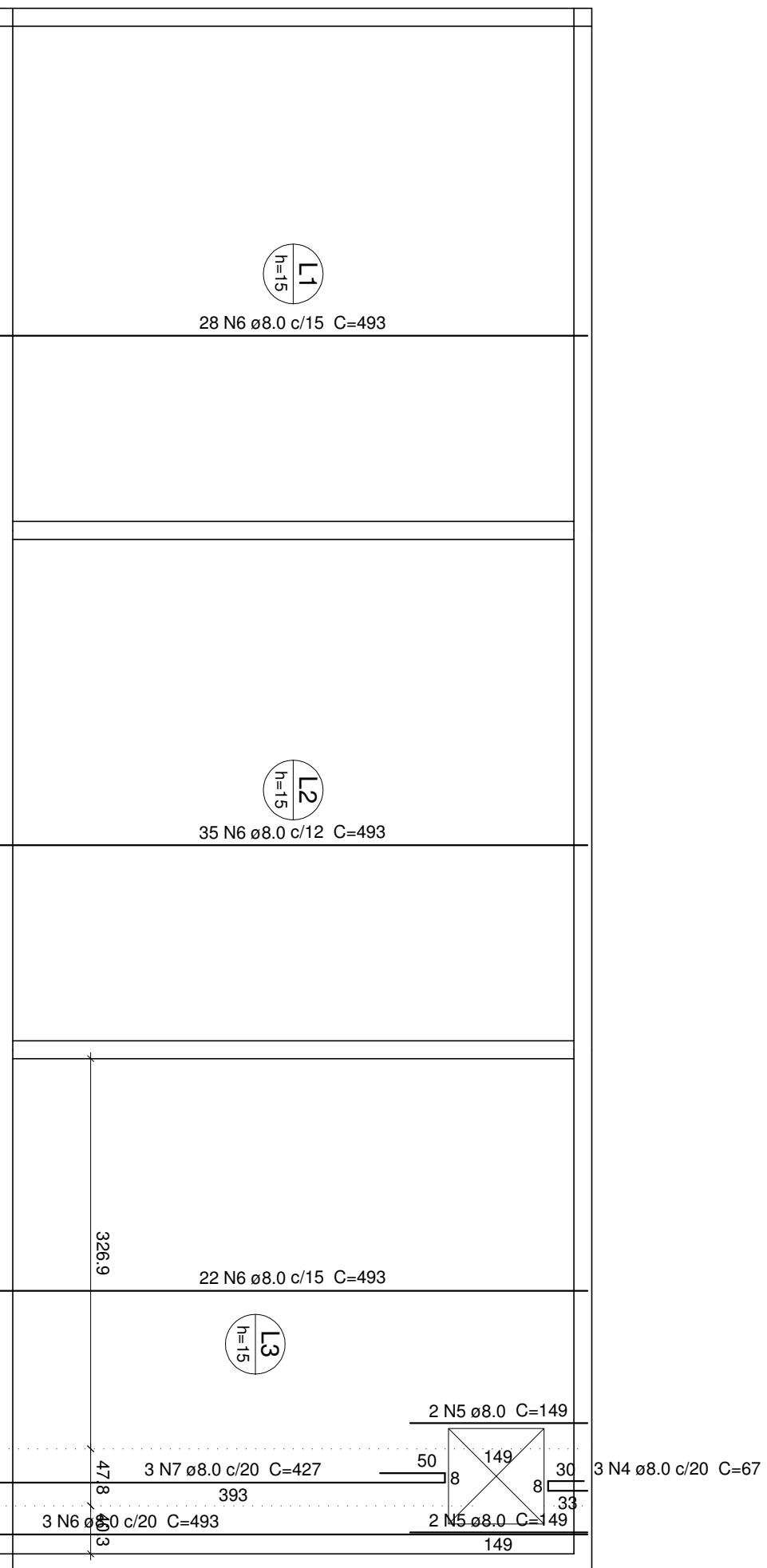
INFERIOR

AO	DIAM	C.TOTAL (m)	PESO + 10 % (kg)
CA50	10.0	1761.3	1194.5
PESO TOTAL			
CA50	1194.5		

Resumo do aço

Vol. de concreto total (C-30) = 12.69 m³
Área de forma total = 8.03 m²

Área de forma total = 8.03 m²



Armação positiva das lajes do pavimento TAMPA (Eixo Y)

Relação do aço						Resumo de aço		
Posições X			Posições Y					
ACO	N	DIAM	Q	UNIT	C.TOTAL	ACO	DIAM	C.TOTAL
CA50	1	8,0	45	(cm)	448	CA50	8,0	817
	2	8,0	32		1476			
	3	8,0	3		1116			
	4	8,0	6		402			
	5	8,0	88		1192			
	6	8,0	8		427			
	7	8,0	3		284			
	8	8,0	3		427			
	9	8,0	3		284			
	10	8,0	3		427			
	11	8,0	3		284			
	12	8,0	3		427			
	13	8,0	3		284			
	14	8,0	3		427			
	15	8,0	3		284			
	16	8,0	3		427			
	17	8,0	3		284			
	18	8,0	3		427			
	19	8,0	3		284			
	20	8,0	3		427			
	21	8,0	3		284			
	22	8,0	3		427			
	23	8,0	3		284			
	24	8,0	3		427			
	25	8,0	3		284			
	26	8,0	3		427			
	27	8,0	3		284			
	28	8,0	3		427			
	29	8,0	3		284			
	30	8,0	3		427			
	31	8,0	3		284			
	32	8,0	3		427			
	33	8,0	3		284			
	34	8,0	3		427			
	35	8,0	3		284			
	36	8,0	3		427			
	37	8,0	3		284			
	38	8,0	3		427			
	39	8,0	3		284			
	40	8,0	3		427			
	41	8,0	3		284			
	42	8,0	3		427			
	43	8,0	3		284			
	44	8,0	3		427			
	45	8,0	3		284			
	46	8,0	3		427			
	47	8,0	3		284			
	48	8,0	3		427			
	49	8,0	3		284			
	50	8,0	3		427			
	51	8,0	3		284			
	52	8,0	3		427			
	53	8,0	3		284			
	54	8,0	3		427			
	55	8,0	3		284			
	56	8,0	3		427			
	57	8,0	3		284			
	58	8,0	3		427			
	59	8,0	3		284			
	60	8,0	3		427			
	61	8,0	3		284			
	62	8,0	3		427			
	63	8,0	3		284			
	64	8,0	3		427			
	65	8,0	3		284			
	66	8,0	3		427			
	67	8,0	3		284			
	68	8,0	3		427			
	69	8,0	3		284			
	70	8,0	3		427			
	71	8,0	3		284			
	72	8,0	3		427			
	73	8,0	3		284			
	74	8,0	3		427			
	75	8,0	3		284			
	76	8,0	3		427			
	77	8,0	3		284			
	78	8,0	3		427			
	79	8,0	3		284			
	80	8,0	3		427			
	81	8,0	3		284			
	82	8,0	3		427			
	83	8,0	3		284			
	84	8,0	3		427			
	85	8,0	3		284			
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	87	8,0	3		284			
	88	8,0	3		427			
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	96	8,0	3		427			
	97	8,0	3		284			
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	189	8,0	3		284			
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	195	8,0	3		284			
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	221	8,0	3		284			
	222	8,0	3		427			
	223	8,0	3		284			
	224	8,0	3		427			
	225	8,0	3		284			
	226	8,0	3		427			
	227	8,0	3		284			
	228	8,0	3		427			
	229	8,0	3					

Relação do aço

Positivos λ

vos y

AÇO	N	DIAM	Q	UNIT	C.TOTAL
				(cm)	(cm)
CA50	1	8,0	46	438	20148
	2	8,0	32	443	14176
	3	8,0	3	372	1116
	4	8,0	6	67	402
	5	8,0	8	149	1192
	6	8,0	88	493	43384
	7	8,0	3	427	1281

Resumo do aço

ACO	DIAM	C.TOTAL (m)	PESO + 10 % (kg)
CA50	8,0	817	354,6
PESO TOTAL			
CA50	354,6		

Vol. de concreto total (C-30) = 8,77 m³
Área de forma total = 58,44 m²

Área de forma total = 58.44 m²

NOTAS :

- 01 - COTAS E DIMENSÕES EM CENTÍMETROS.
- 02 - TODAS AS MEDIDAS DEVERÃO SER CONFORMADAS NO LOCAL.
- 03 - AS COTAS PREVALECERÃO SOBRE O DESENHO.
- 04 - ACÍDES:
 - Ca-50 F_{yk} = 500 MPa
 - Ca-60 F_{yk} = 600 MPa
- 05 - CONCREMUNTO DAS ARMADILHAS
 - ESCALA = 5 cm
 - TELEFERRICA PARA CONCREMUNTO = 0,5 cm (CONTROLE RIGOROSO DE EXECUÇÃO SEGUNDO NBR6118/14)
- 06 - CARACTERÍSTICAS DO CONCRETO:
 - RESISTÊNCIA CARACTERÍSTICA (f_{ck}) = 30 MPa
 - CONSUMO MÍNIMO DE CIMENTO = 330 Kg/m³
 - RELACÃO ÁGUA-CIMENTO MÁXIMA (a/c) = 0,55
 - MÓDULO DE ELASTICIDADE TÁNCIENTE INICIAL DO CONCRETO: 30622 MPa.
 - DIÁMETRO MÁXIMO DO ACREGADO (GRANUL) < 19 mm.
- 07 - PRECAUCOES ESPECÍFICAS DEVERÃO SER TOMADAS QUANTO A CURA DO CONCRETO, MANTENDO A SUPERFÍCIE DO MESMO ÚMIDA E PROTEGIDA.
- 08 - A EXECUÇÃO DA ESTRUTURA E DE RESPONSABILIDADE DA CONSTRUTORA E DEVERÁ CONTAR COM A CONSULTORIA DE UM TÉCNICO DEISTIA DE MATERIAIS DO ENGENHEIRO RESPONSÁVEL. DEVERÁ OBEDECER AS RECOMENDAÇÕES DA NBR-1693 - EXECUÇÃO DE ESTRUTURAS DE CONCRETO - PROCEDIMENTOS.
- 09 - PRÓTIPO DE INSTRUMENTOS E CIMENTAÇÕES E DE RESPONSABILIDADE DA CONSTRUTORA OU DO RESPONSÁVEL TÉCNICO DA OBRA.
- 10 - OS QUANTITATIVOS DE ÁGUA, FIBRAS E CONCRETO, DEVERÃO SER CONFORMADOS PELO RESPONSÁVEL TÉCNICO DA OBRA.

[illegible]

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TÍTULO DA FRANQUIA	
CISTERNA - LAJES	
AUTOR DO PROJETO	ESCALA
CONTRATANTE	INDICAÇÃO
RESPONSÁVEL TÉCNICO	IDENTIFICAÇÃO INTERNA
PROPRIETÁRIO	HR 52/20
REVISÃO/AVANTO DO PROJETO	ENTREGUEIRA GRAFICA
REVISÃO V. C. FILHO	
HERNÉS A. LIND	
02	