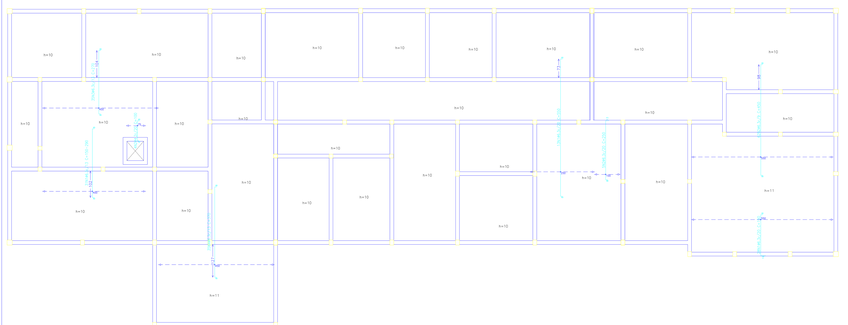

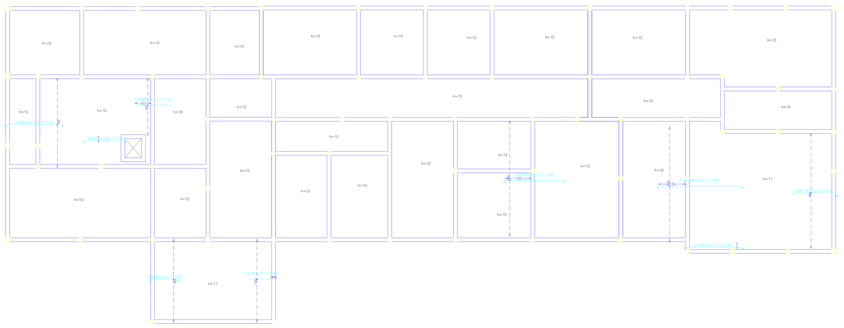

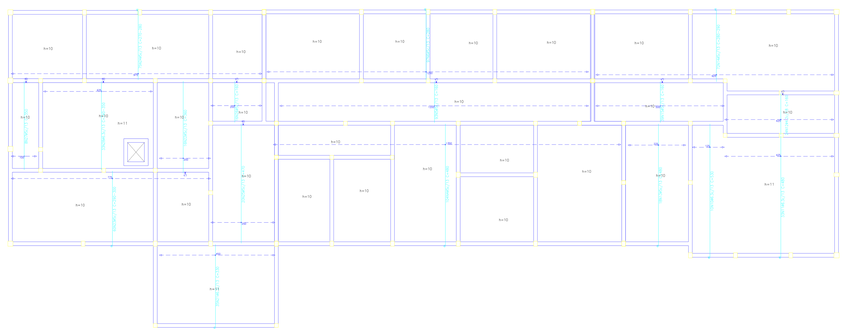

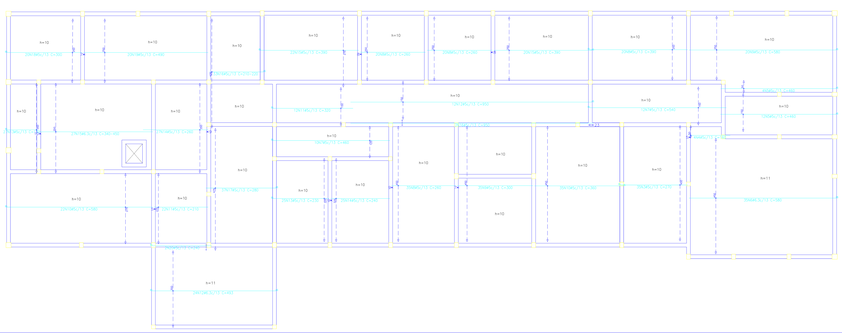

Elemento	Pos	Dcm	Nº	Qtde	Perfil	Qtde	Comp.	Total	CA-50	CA-60	(kg)
Armadura transversal superior	1	#6.3	13	8	104	8	140	9.94	10.2		
	2	#6.3	5	8	40	8	140	3.82		0.4	
	3	#6.3	5	8	40	8	140	3.82	0.4		
	4	#6.3	35	8	284	8	140	27.04	27.8		
								Total (10)	37.8	0.4	
Armadura longitudinal superior	5	#5	19	8	156	8	150	9.45		3.2	
	6	#5	12	8	96	8	150	5.85	15.4		
	7	#5	12	8	96	8	150	5.85		2.7	
	8	#6.3	18	8	150	8	140	14.05	14.2		
	9	#6.3	2	8	16	8	140	1.56		0.4	
								Total (10)	29.6	6.3	
Armadura longitudinal inferior	10	#5	22	8	374		540	31.79		20.0	
	11	#5	10	8	170		540	14.45		7.7	
	12	#5	22	8	374		410	24.13	39.3		
	13	#5	2	8	34		150	2.13		5.5	
	14	#5	23	8	391		150	24.51		11.0	
	15	#5	12	8	204		280	14.28	28.6		
	16	#5	12	8	VAR.		VAR.	7.27		11.3	
	17	#5	10	8	170		280	11.90		16.8	
	18	#5	10	8	170		280	11.90		19.4	
	19	#5	10	8	170		640	27.20		19.4	
	20	#5	2	8	34		640	5.44		5.8	
								Total (10)	63.5	106.7	
Armadura transversal interior	21	#6.3	39	8	304		150	19.00		0.0	
	22	#5	16		160		150	6.00		29.5	
	23	#5	62	8	VAR.		VAR.	17.63		14.8	
	24	#5	16	8	128		410	19.68		14.8	
	25	#5	16		160		150	6.00		4.5	
	26	#5	16		160		280	11.20		4.8	
	27	#6.3	33		VAR.		VAR.	10.62	27.0		
								Total (10)	51.2	102.5	
								#6.3	0.0	0.0	
								#5	51.2	0.0	
								#6.3	27.7	0.0	
								Total	27.7	216.3	

Elemento	Pos	Dcm	Nº	Qtde	Perfil	Qtde	Comp.	Total	CA-50	CA-60	(kg)
Armadura transversal superior	1	#6.3	5	8	104	16	150	7.68	7.7		
	2	#6.3	5	8	40	8	150	3.00		0.2	
								Total (10)	7.7	0.2	
Armadura longitudinal superior	3	#6.3	35	8	242	8	150	7.50	15.5		
								Total (10)	15.5	0.0	
Armadura transversal interior	4	#5	54	8	414		480	39.84		25.4	
	5	#5	54	8	414		480	39.84		42.8	
	6	#5	33	8	253		480	24.34		42.8	
								Total (10)		106.9	
Armadura longitudinal interior	7	#5	10	8	464		150	6.96		0.0	
	8	#5	39	8	302		150	14.55		10.4	
	9	#5	39	8	302		320	15.50		19.5	
	10	#5	72	8	554		320	28.42		19.5	
	11	#5	72	8	554		320	28.42		8.0	
	12	#5	72	8	554		320	28.42		17.0	
	13	#5	72	8	554		320	28.42		17.0	
	14	#5	28	8	384		320	14.90		9.4	
	15	#5	42	8	384		320	14.90		25.2	
	16	#5	6		46		320	1.84		1.1	
								Total (10)		153.4	
								#5	0.0	218.6	
								#6.3	0.0	0.0	
								Total	0.0	218.6	

Elemento	Pos	Dcm	Nº	Qtde	Perfil	Qtde	Comp.	Total	CA-50	CA-60	(kg)
Armadura transversal superior	1	#6.3	28	8	161	8	140	9.03	9.0		
	2	#6.3	5	8	40	8	140	3.82		0.4	
								Total (10)	12.8	0.4	
Armadura longitudinal superior	3	#5	26	8	241		540	21.74		14.8	
	4	#5	6	8	56		540	5.04		1.5	
	5	#5	16	8	414		480	15.90		11.8	
	6	#6.3	18	8	150		410	14.05	30.2		
	7	#6.3	18	8	150		480	16.43		12.2	
	8	#5	20	8	384		380	14.60		9.2	
	9	#5	20	8	384		380	14.60		9.2	
								Total (10)	30.2	74.8	
Armadura transversal interior	10	#6.3	18	8	161		540	17.39		11.0	
	11	#4.2	24	8	192		150	3.60		1.4	
	12	#4.2	24	8	192		150	3.60	4.2		
	13	#5	72	8	554		150	13.31		8.2	
	14	#5	72	8	554		320	28.42		32.7	
	15	#5	74		740		150	6.66		9.8	
								Total (10)	67.1	66.3	
Armadura longitudinal superior	16	#5	10	8	464		150	6.96	14.4		
	17	#5	4	8	30	8	240	4.80		7.5	
	18	#6.3	2	8	16	8	240	2.56			
								Total (10)	18.7	8.3	
								#5	14.4	7.5	
								#6.3	30.2	0.0	
								Total	44.8	0.0	

C L P
ENGENHARIA E PROJETOS LTDA

C.L.P. ENGENHARIA E PROJETOS LTDA
CNPJ 13.139.556/0001-09
Rua Cel.Vicente Leite, 74 - CAMAQUÃ/RS - RS
Dirk Cirino - ENG.MECÂNICO CREA - 060.414.421 - RS
clpengenharia@gmail.com

UNIDADE BÁSICA DE SAUDE DA FAMÍLIA

ENDEREÇO: Rua Quintino Bocaiúva nº 375 Vila São Miguel - Rio Grande - RS

PROPRIETÁRIO: PREFEITURA MUNICIPAL DE RIO GRANDE

RESP. TÉCNICO: ENG° CIVIL JOÃO BATISTA COUTO - CREA 42.926

DATA: JUNHO 2012

ESCALA: 1:100

DESENHO: João

PROJETO ESTRUTURAL

ARMADURA LAJES 1º PAVIMENTO

PRANCHA: 7/8