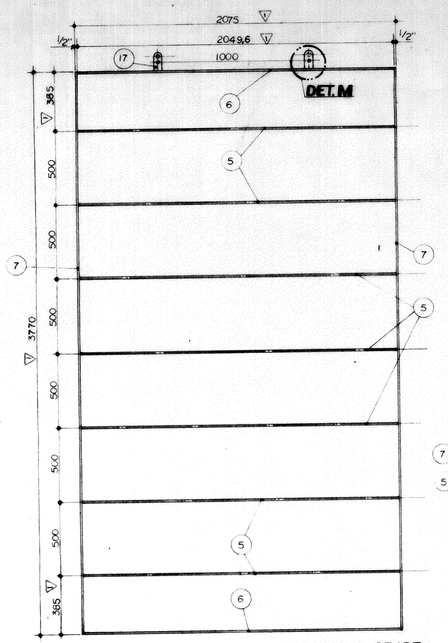
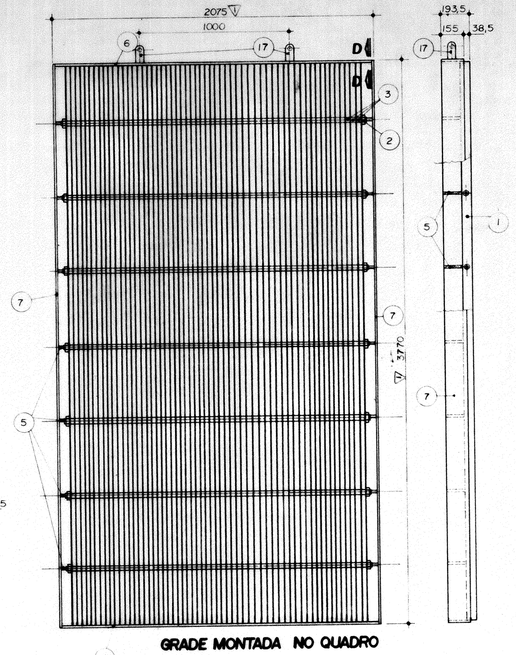
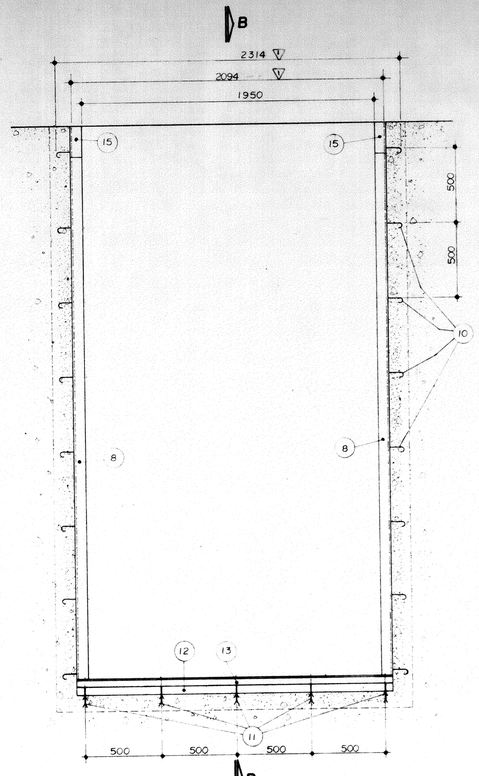


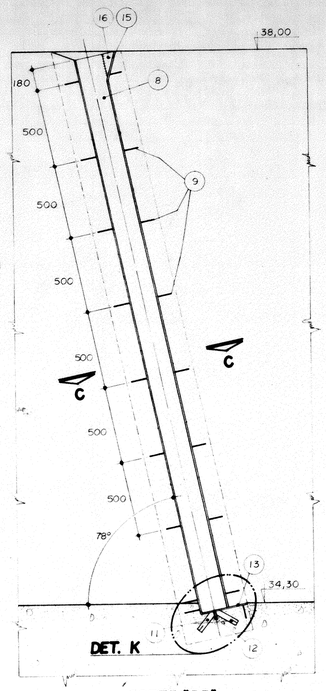
QUADRO da GRADE
ESC. 1:20



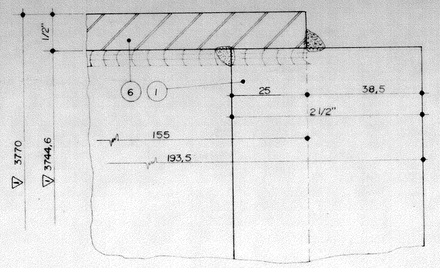
GRADE MONTADA NO QUADRO
ESC. 1:20



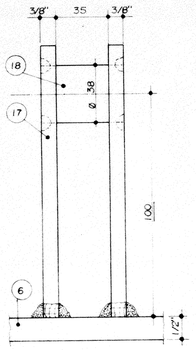
ELEVAÇÃO
ESC. 1:20



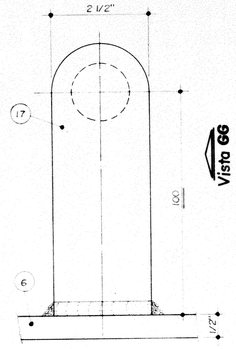
CORTE "BB"
ESC. 1:20



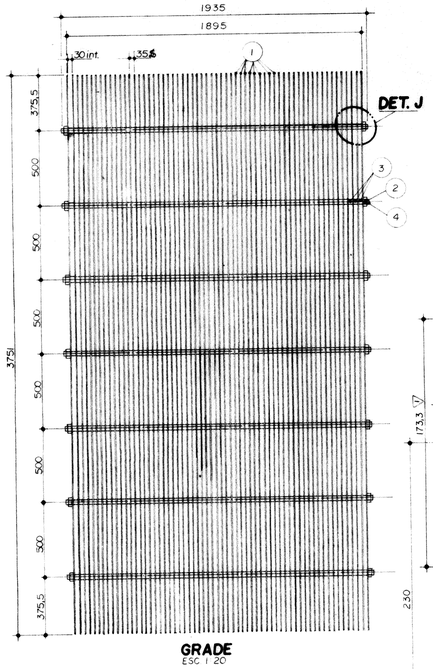
CORTE "DD"
ESC. 1:1



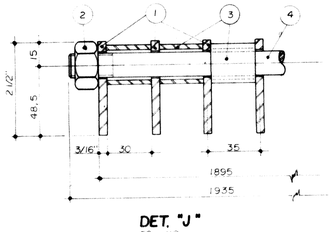
Vista de "GG"
ESC. 1:2



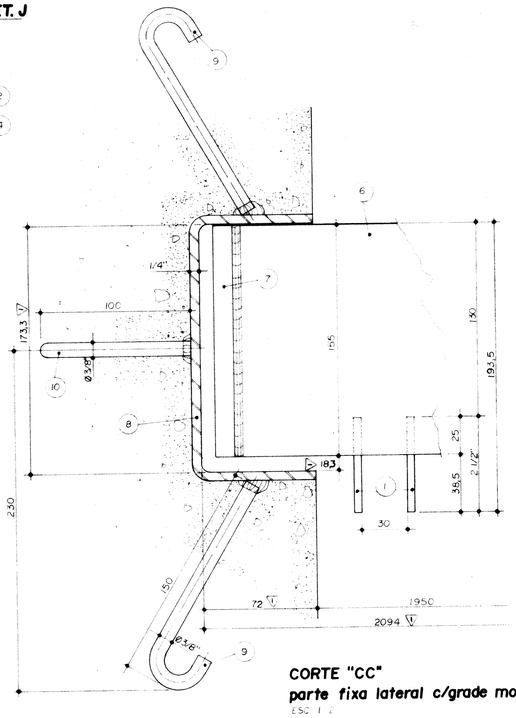
DET. M
ESC. 1:2



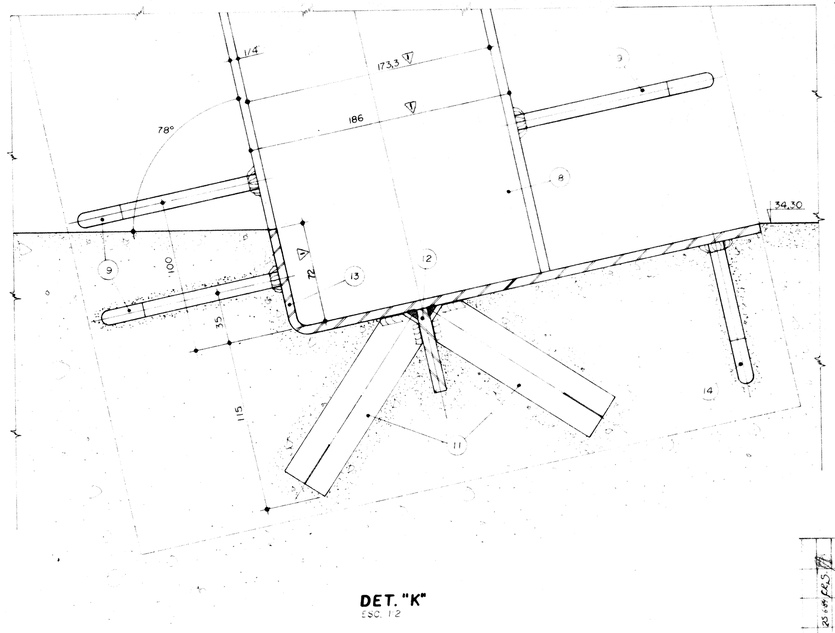
GRADE
ESC. 1:20



DET. "J"
ESC. 1:2



CORTE "CC"
parte fixa lateral c/grade montada
ESC. 1:2



DET. "K"
ESC. 1:2

PESO UNITÁRIO TOTAL ——— 1102Kgs

2	PINO	Ø 1 1/2 " x 55	1010	16		1,15
4	PUCHADORES	# 3/8" x 2 1/2" x 135	A-36	17		2,55
1	CHAPA GUIA	# 1/4" x 80 x 200	A-36	16		0,80
1	INTRODUTOR	# 1/4" x 75 x 200	A-36	15		0,75
5	CHUMBADORES	Ø 3/8" x 150	1010	14		0,45
1	PATENTE INFERIOR	# 1/4" x 395 x 2113	A-36	13		41,00
1	REFORÇO INFERIOR	# 5/16" x 2" x 2113	A-36	12		6,70
10	CHUMBADORES	# 1/4" x 11/4" x 150	1010	11		2,45
16	CHUMBADORES	Ø 3/8" x 150	1010	10		1,35
17	CHUMBADORES	Ø 3/8" x 200	1010	9		1,80
2	GUIAS LATERAL	# 1/4" x 320 x 3770	A-36	8		115,00
2	CHAPAS LATERAL	# 1/2" x 155 x 3770	A-36	7		113,50
2	TRAVESSAS SUP. E INF.	# 1/2" x 155 x 2049,6	A-36	6		61,70
7	TRAVESSAS INTERM.	# 5/8" x 130 x 2049,6	A-36	5		231,85
7	PRISIONEIROS	Ø 5/8" x 1935	1020	4		21,00
378	TUBOS DISTANCIADOR	Ø 3/4" x 30	SCH080	3	SEM COSTURA	7,90
14	PORCAS	Ø 5/8"	1020	2		
55	BARRAS VERTICAIS	# 3/16" x 2 1/2" x 3751	A-36	1		489,00
QUANT.	DENOMINAÇÃO	DIMENSÕES	MAT.	POS.	REFERÊNCIAS	PESO

NOTAS 1-MEDIDAS EM MILIMETROS
2-ELEVAÇÕES EM METROS
3-QUANTIDADE 02 (duas) UNIDADES

CLIENTE: D.M.E. DEPARTAMENTO MUNICIPAL DE ELETRICIDADE		DATA	NOME
OBRA: AMPLIAÇÃO DA USINA HIDRELÉTRICA DAS ANTAS	DES.	04.06.83	MARCO
PROJETO:	CONF.		
GRADE DA TOMADA D'AGUA	VISTO		
ESCALA: INDICADA	TÍTULO: PAINEL E PARTES FIXAS	REFERÊNCIAS	
EM SUBSTITUIÇÃO DE:	SUBSTITUIDO POR:	O.S.	

LINDNER	HIDRÁULICA INDUSTRIAL S.A. IND. e COM. JOAÇABA — SANTA CATARINA	DESENHO Nº A1-2031-16 / REV 1

A1-2031-16