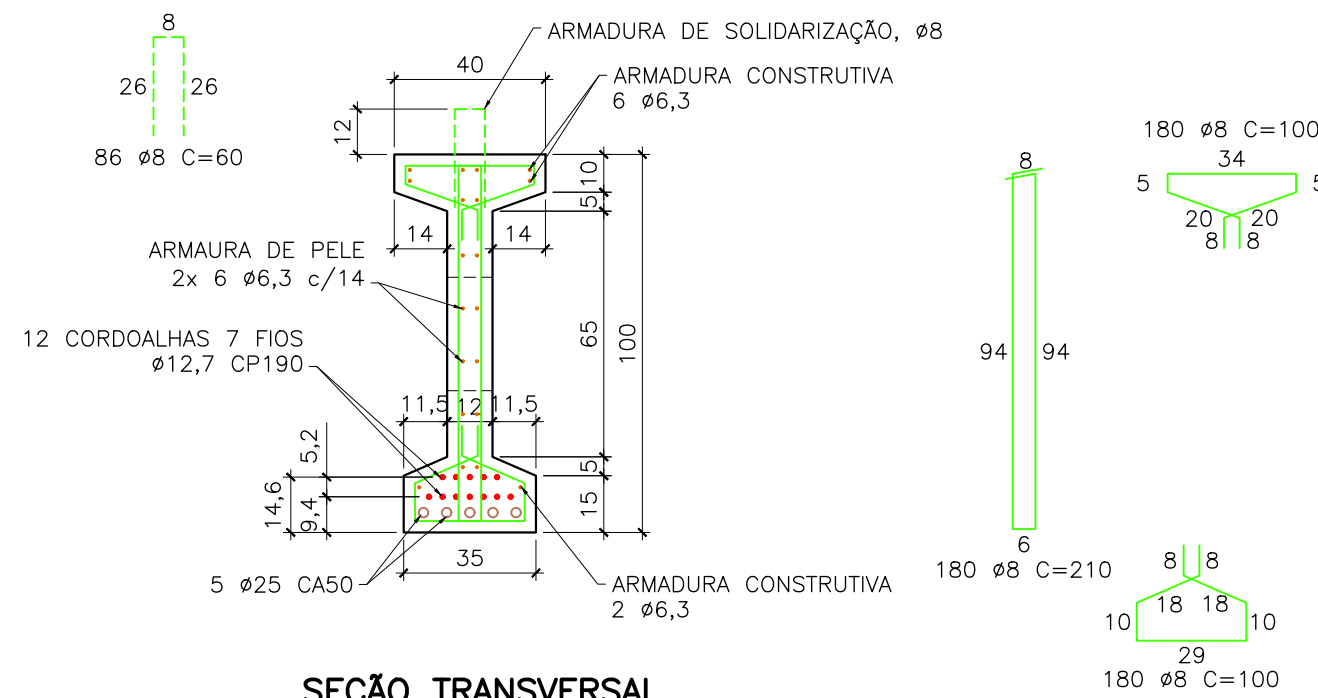
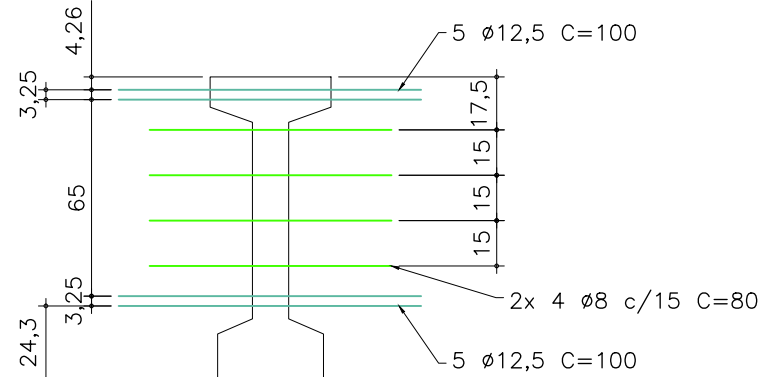


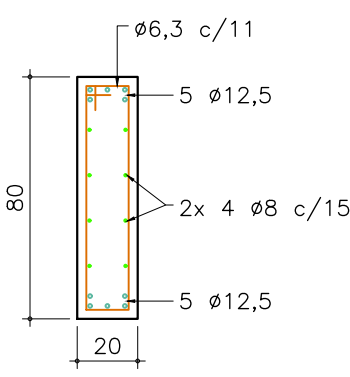
VIGAS LONGARINAS (12x)  
1/50



SEÇÃO TRANSVERSAL  
1/20



DET. DAS ESPERAS  
1/25

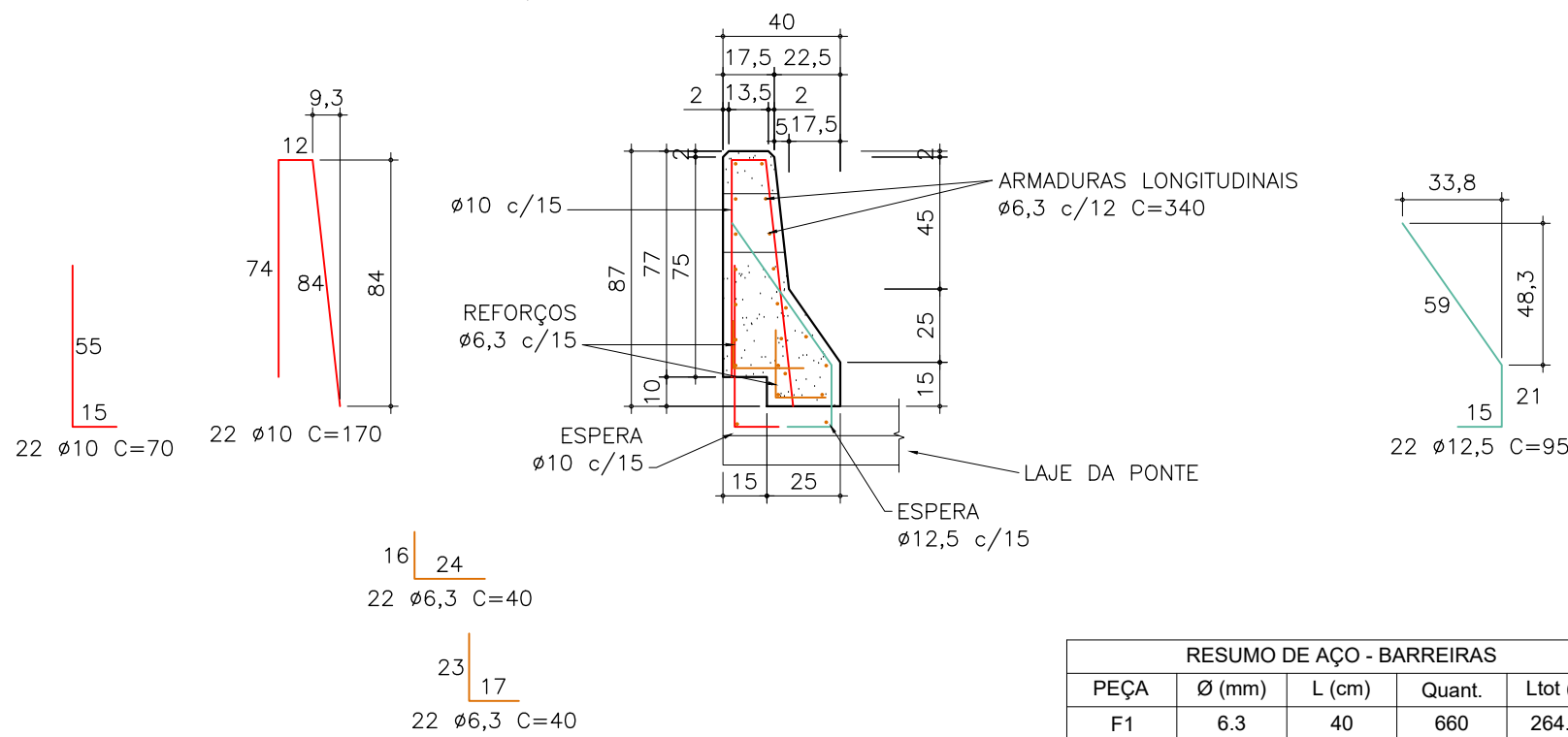


SEÇÃO DAS TRANSVERSINAS  
1/25

RESUMO DE AÇO - LONGARINAS				
PEÇA	Ø (mm)	L (cm)	Quant.	Ltot (m)
F1	25.0	1200	5	60.00
F2	25.0	400	10	40.00
F3	6.3	1200	20	240.00
F4	6.3	300	40	120.00
F5	8.0	60	86	51.60
F6	8.0	210	180	378.00
F7	8.0	100	180	180.00
F8	8.0	100	180	180.00
F9	12.5	100	20	20.00
F10	8.0	80	16	12.80
TOTAIS				
Ø (mm)	Ltot (m)		kgf + 10%	
6.3	360.0		96.9	
8.0	802.4		348.3	
12.5	20.0		21.2	
25.0	100.0		423.9	
TOTAL + 10% (kgf)			890.2	
12 x CP 190 RB, Cord. 7 fios Ø12,7mm C=1720				

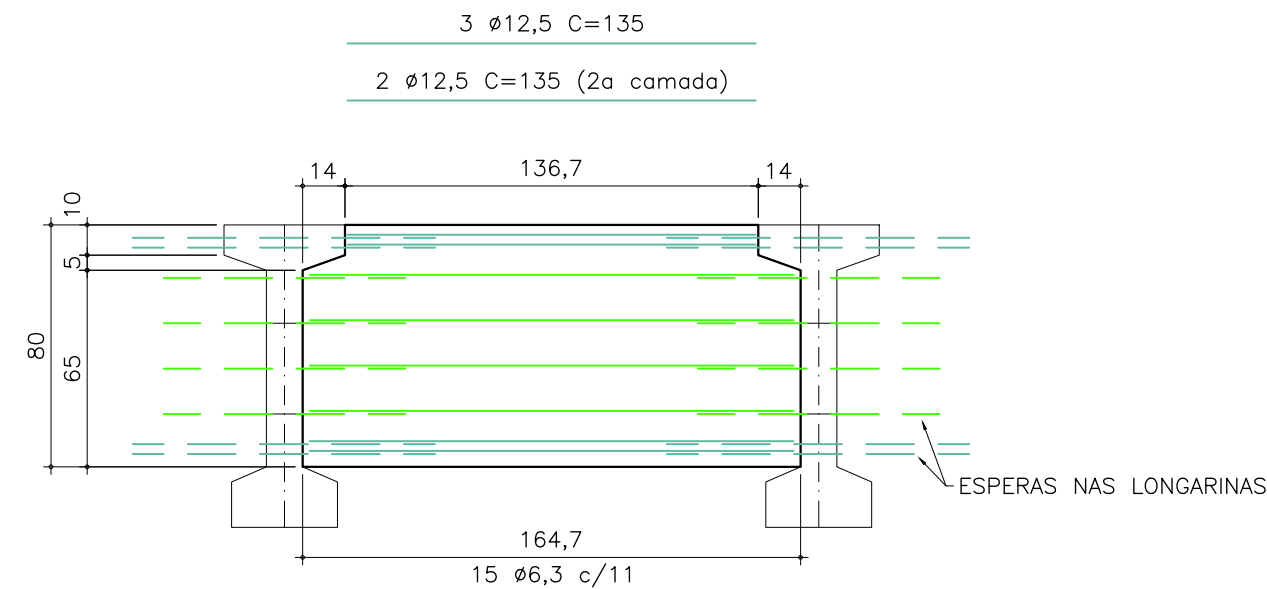
CONCRETO PARA UMA VIGA, fck 40 MPa = 3,36 m3.  
PESO DE UMA VIGA = 8400 kgf

SEÇÃO TÍPICA DAS BARREIRAS  
1/25



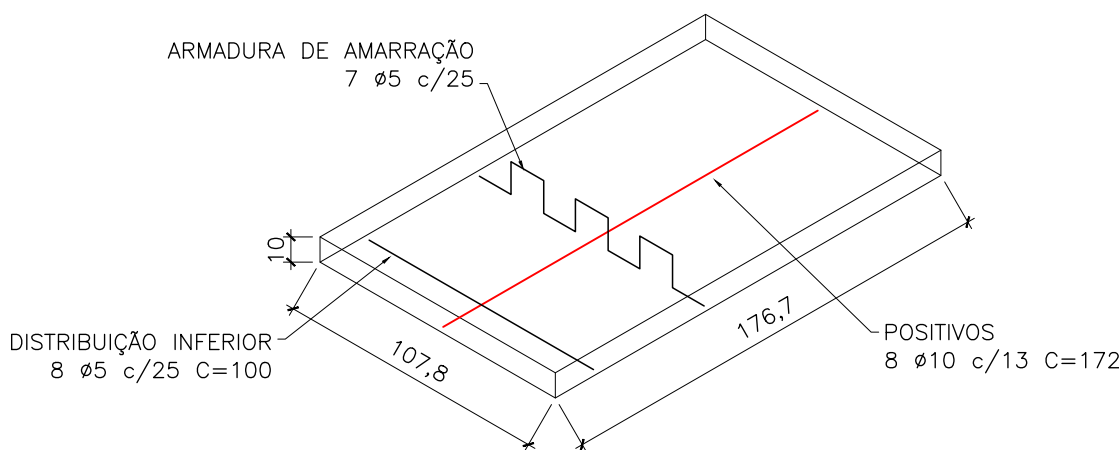
RESUMO DE AÇO - BARREIRAS				
PEÇA	Ø (mm)	L (cm)	Quant.	Ltot (m)
F1	6.3	40	660	264.00
F2	6.3	40	660	264.00
F3	10.0	70	660	462.00
F4	10.0	170	660	1122.00
F5	12.5	95	660	627.00
F6	6.3	340	600	2040.00
TOTAIS				
Ø (mm)	Ltot (m)		kgf + 10%	
6.3	2568.0		691.2	
10.0	1584.0		1074.3	
12.5	627.0		664.4	
TOTAL + 10% (kgf)			2429.9	

CONCRETO, fck 25 MPa = 23,08 m3.



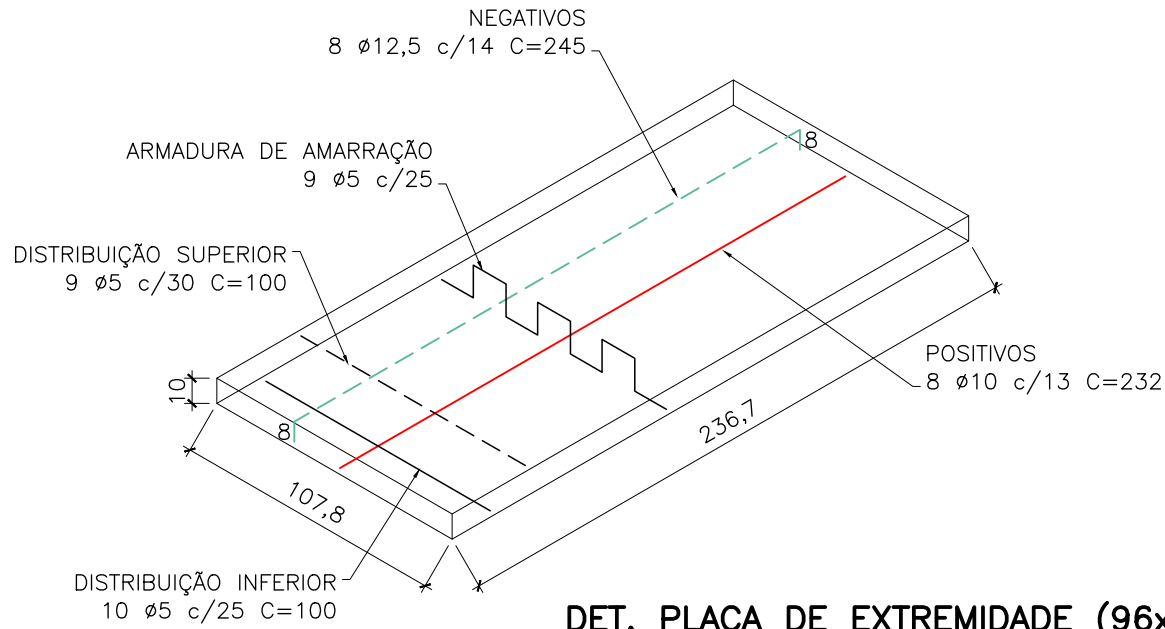
RESUMO DE AÇO - TRANSVERSSINAS				
PEÇA	Ø (mm)	L (cm)	Quant.	Ltot (m)
F1	6.3	190	270	513.00
F2	8.0	160	144	230.40
F3	12.5	160	90	144.00
F4	12.5	135	90	121.50
TOTAIS				
Ø (mm)	Ltot (m)		kgf + 10%	
6.3	513.0		138.1	
8.0	230.4		100.0	
12.5	265.5		281.3	
TOTAL + 10% (kgf)			519.4	

CONCRETO, fck 25 MPa = 4,62 m3.



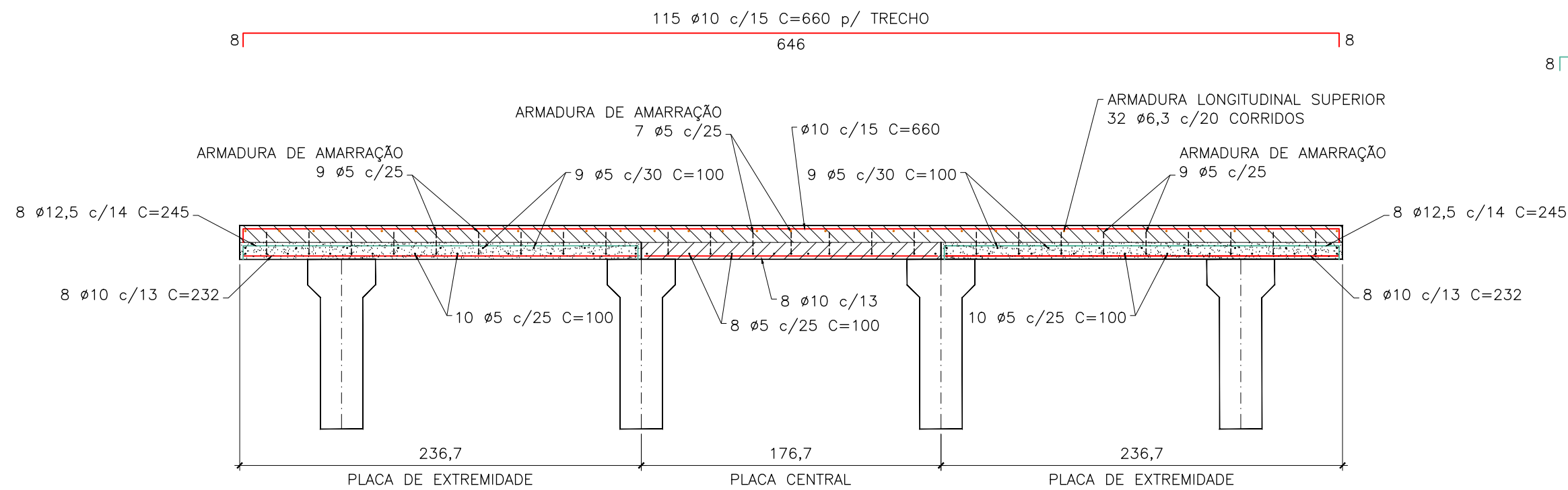
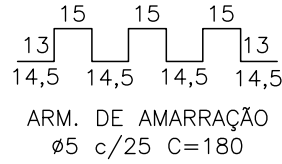
DET. PLACA CENTRAL (48x)  
1/30

VOL. CONCRETO POR LAJE, fck 25 MPa = 0,19 m3.  
PESO DE UMA LAJE = 476 kgf



DET. PLACA DE EXTREMIDADE (96x)  
1/30

VOL. CONCRETO POR LAJE, fck 25 MPa = 0,255 m3.  
PESO DE UMA LAJE = 638 kgf



DET. ARMADURAS DAS LAJES  
1/30

RESUMO DE AÇO - LAJES				
PEÇA	Ø (mm)	L (cm)	Quant.	Ltot (m)
F1	10.0	172	384	660.48
F2	5.0	100	384	384.00
F3	5.0	180	336	604.80
F4	10.0	232	768	1781.76
F5	5.0	100	960	960.00
F6	5.0	180	864	1555.20
F7	12.5	245	768	1881.60
F8	5.0	100	864	864.00
F9	10.0	660	345	2277.00
F10	6.3	1200	96	1152.00
F11	6.3	300	192	576.00
TOTAIS				
Ø (mm)	Ltot (m)		kgf + 10%	
5.0	4368.0		740.6	
6.3	1728.0		465.1	
10.0	4719.2		3200.5	
12.5	1881.6		1993.9	
	TOTAL + 10% (kgf)		6400.1	

CONCRETO LAJES PRÉ-MOLDADAS, fck 25 MPa = 33,6 m3.  
CONCRETO LAJE MOLDADA IN LOCO, fck 25 MPa = 35,1 m3.

CLIENTE	PREFEITURA MUNICIPAL DE SANTA MARIA	ESCALA	Indicada
OBRA	PONTE DE BANHADOS	DESENHO	A.L.
DESCRIÇÃO	PROJETO BÁSICO	REVISÃO	-
LOCAL	Santa Maria/RS	DATA	07/07/2023
PRANCHA	04	MODIFICADO	07/07/2023
RESP. TÉCN.	ENG. A. LÜBECK - CREA 140441		