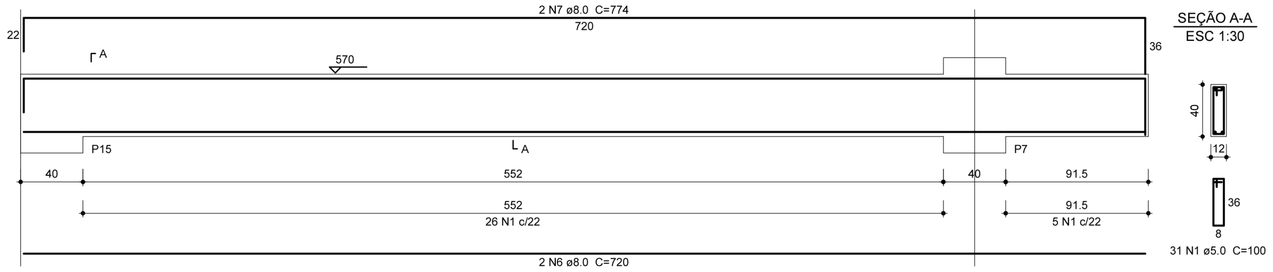
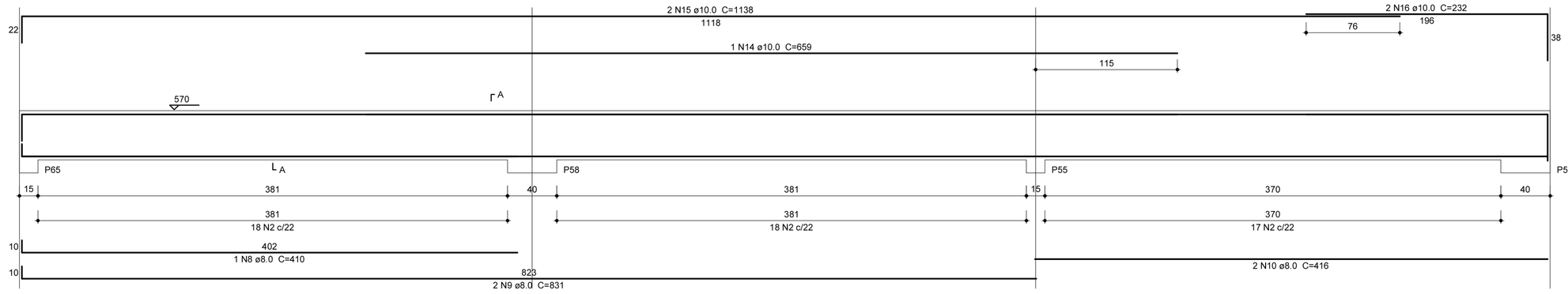
V24
1:25



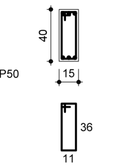
SEÇÃO A-A
ESC 1:30

31 N1 ø5.0 C=100

V25
1:25

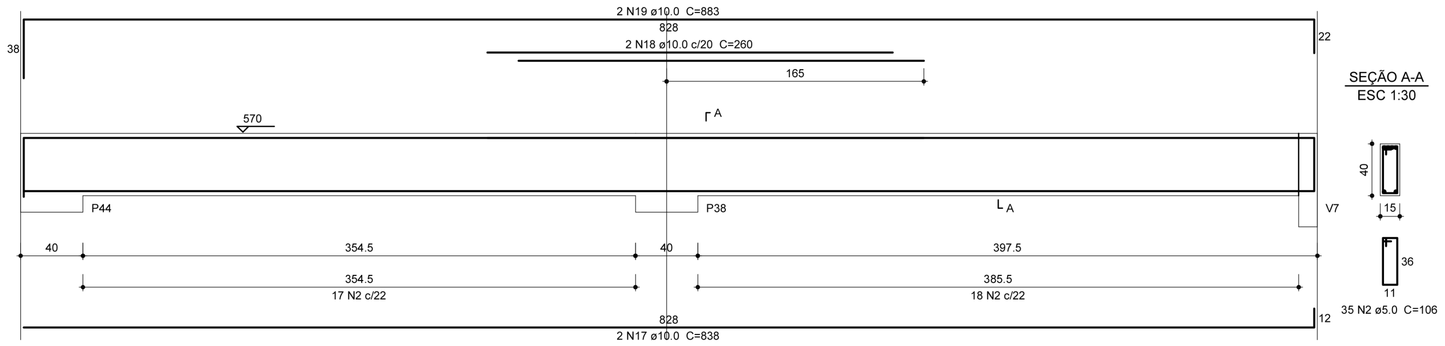


SEÇÃO A-A
ESC 1:30



53 N2 ø5.0 C=106

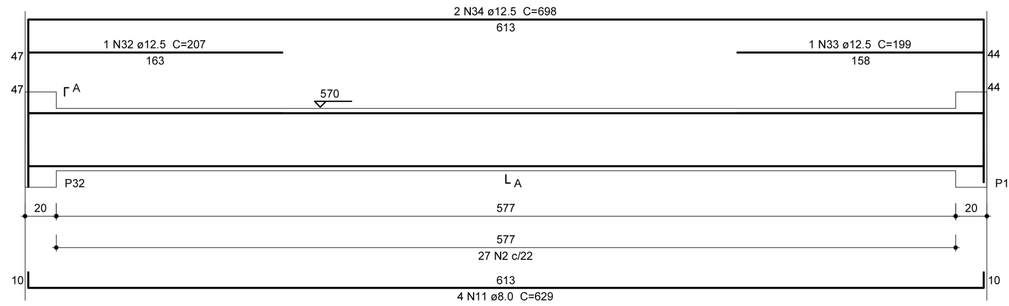
V27
1:25



SEÇÃO A-A
ESC 1:30

35 N2 ø5.0 C=106

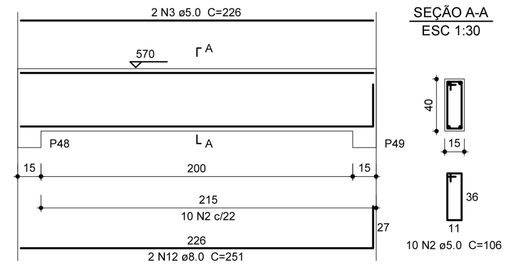
V28
1:25



SEÇÃO A-A
ESC 1:30

27 N2 ø5.0 C=106

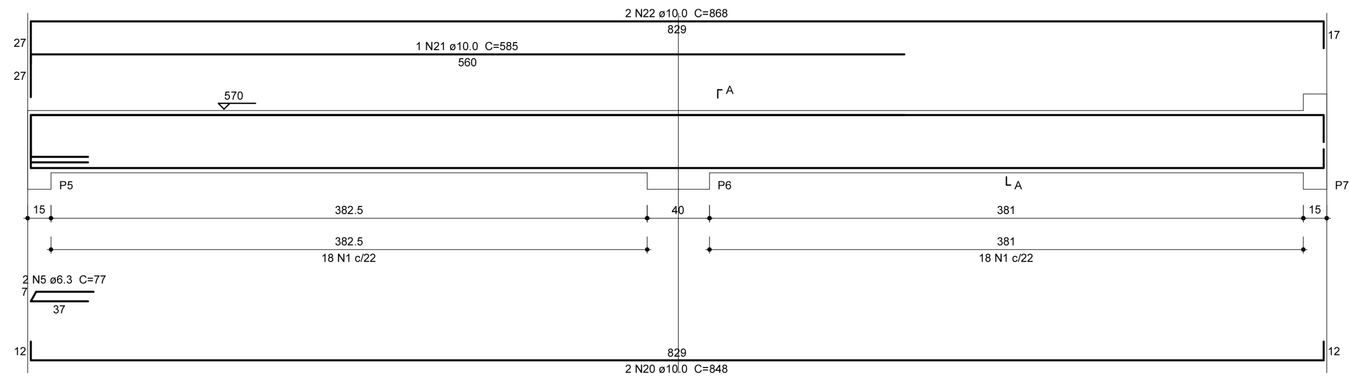
V10
1:25



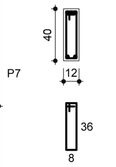
SEÇÃO A-A
ESC 1:30

10 N2 ø5.0 C=106

V29
1:25

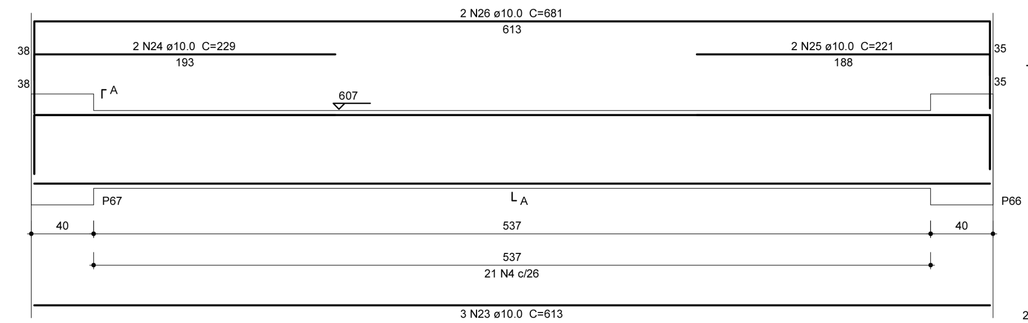


SEÇÃO A-A
ESC 1:30



36 N1 ø5.0 C=100

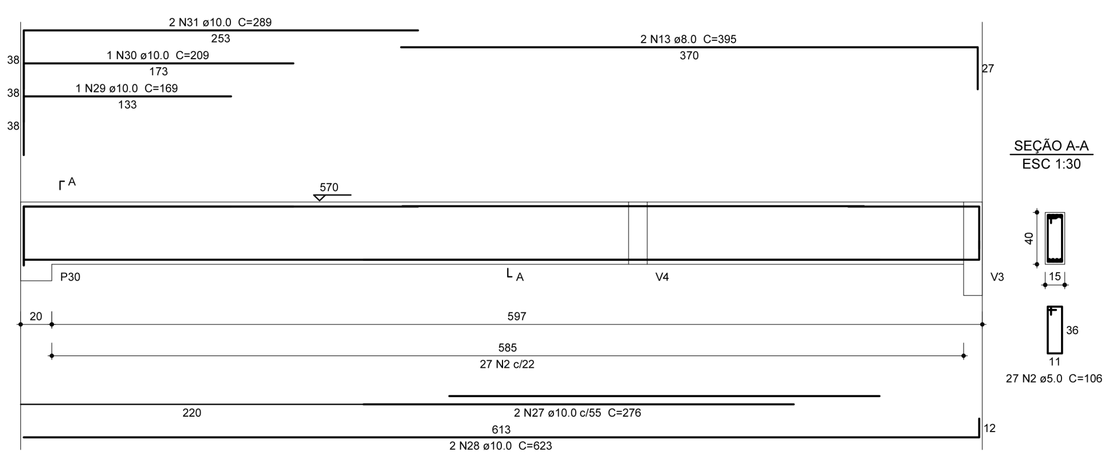
V23
1:25



SEÇÃO A-A
ESC 1:30

21 N4 ø5.0 C=126

V22
1:25



SEÇÃO A-A
ESC 1:30

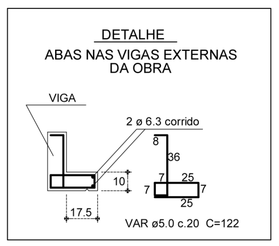
27 N2 ø5.0 C=106

Relação do aço

V10 V22 V23
V24 V25 V27
V28 V29

AÇO	N	DIAM	Q	UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	67	100	6700
	2	5.0	152	106	16112
	3	5.0	2	226	452
	4	5.0	21	126	2646
CA50	5	6.3	2	77	154
	6	8.0	2	720	1440
	7	8.0	2	774	1548
	8	8.0	1	410	410
	9	8.0	2	831	1662
	10	8.0	2	416	832
	11	8.0	4	629	2516
	12	8.0	2	251	502
	13	8.0	2	395	790
	14	10.0	1	659	659
	15	10.0	2	1138	2276
	16	10.0	2	232	464
	17	10.0	2	838	1676
	18	10.0	2	260	520
	19	10.0	2	883	1766
	20	10.0	2	848	1696
	21	10.0	1	585	585
	22	10.0	2	868	1736
	23	10.0	3	613	1839
	24	10.0	2	229	458
	25	10.0	2	221	442
	26	10.0	2	681	1362
	27	10.0	2	276	552
	28	10.0	2	623	1246
	29	10.0	1	169	169
	30	10.0	1	209	209
	31	10.0	2	289	578
	32	12.5	1	207	207
	33	12.5	1	199	199
	34	12.5	2	698	1396

DETALHE
ABAS NAS VIGAS EXTERNAS DA OBRA



Resumo do aço

AÇO	DIAM	C.TOTAL (m)	PESO + 10 % (kg)
CA50	6.3	1.6	0.4
	8.0	97	42.1
	10.0	182.4	123.7
	12.5	18.1	19.1
CA60	5.0	259.1	43.9
PESO TOTAL			
CA50	185.3		
CA60	43.9		

Vol. de concreto total (C-25) = 3.33 m³
Área de forma total = 55.03 m²

ESTRUTURAL

MUNICÍPIO
ANTÔNIO CARLOS – SC

OBRA ESCOLA MUNICIPAL

CONTEÚDO
VIGAS DA COBERTURA – PRANCHA 4

PROJETO
Eng. Civil Virginia Maria Wolff
CREA-SC 37928-1

EXECUÇÃO

DESENHO	ESCALA	DATA	ÁREA	PRANCHA
GRANFPOLIS	INDICADAS	DEZ/2011	1301,00m²	22/26

ASSOCIAÇÃO DOS MUNICÍPIOS
DA REGIÃO DA GRANDE FLORIANÓPOLIS
" G R A N F P O L I S "
ASSESSORIA DE ENGENHARIA E ARQUITETURA