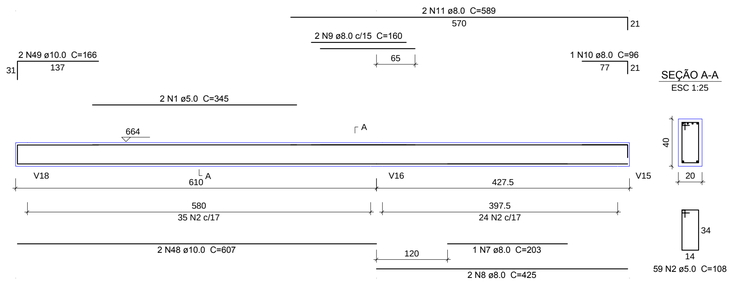
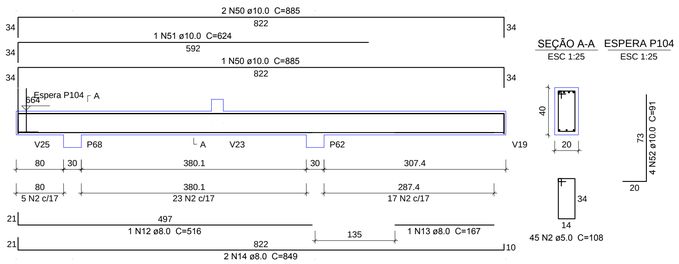
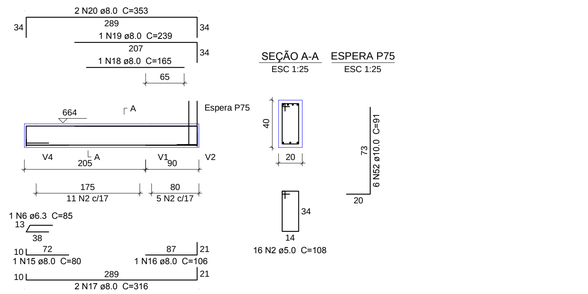
V40
ESC 1:50



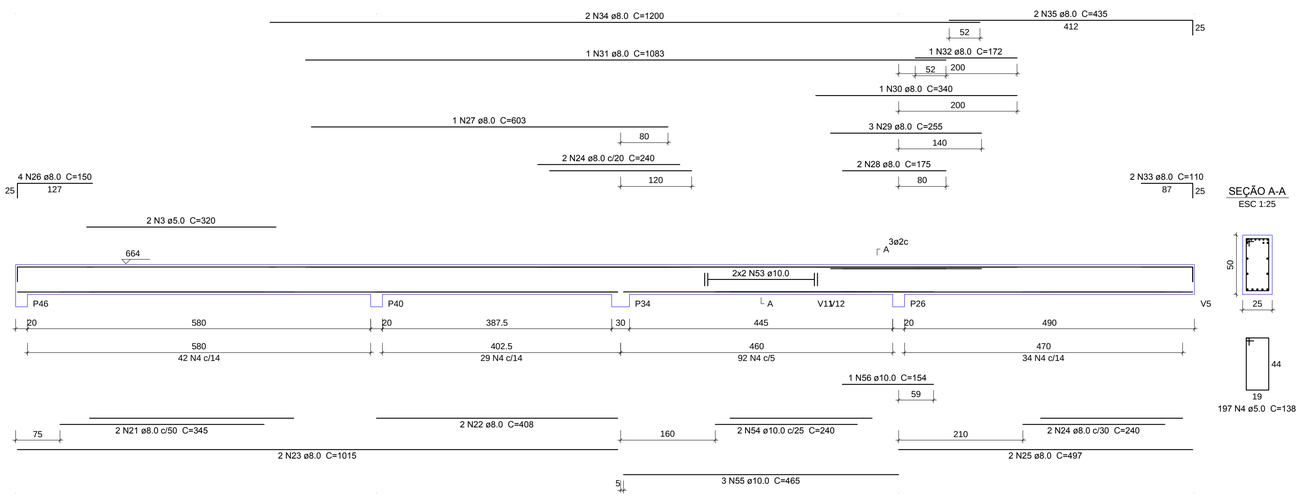
V41
ESC 1:50



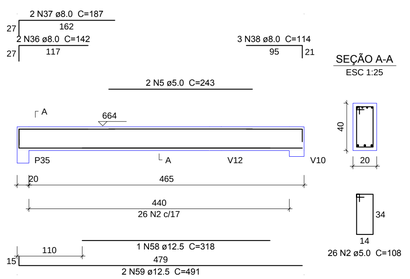
V46
ESC 1:50



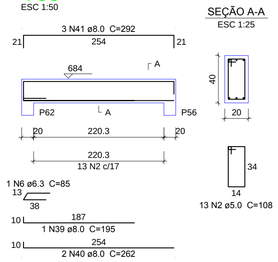
V43
ESC 1:50



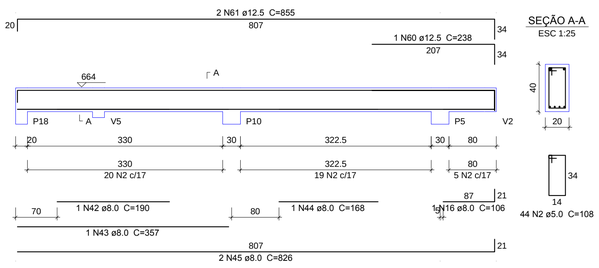
V49
ESC 1:50



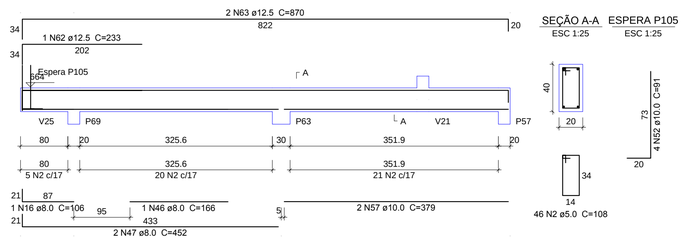
V55
ESC 1:50



V50
ESC 1:50



V51
ESC 1:50



Relação do aço

V40 V41 V43
V46 V49 V50
V51 V55

AÇO	N	DIAM (mm)	QUANT (Barras)	UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	2	345	690
	2	5.0	249	108	26892
	3	5.0	2	320	640
	4	5.0	197	138	27186
	5	5.0	2	243	486
CA50	6	6.3	2	85	170
	7	8.0	1	203	203
	8	8.0	2	425	850
	9	8.0	2	160	320
	10	8.0	1	96	96
	11	8.0	2	589	1178
	12	8.0	1	516	516
	13	8.0	1	167	167
	14	8.0	2	849	1698
	15	8.0	1	80	80
	16	8.0	3	106	318
	17	8.0	2	316	632
	18	8.0	1	165	165
	19	8.0	1	239	239
	20	8.0	2	353	706
	21	8.0	2	345	690
	22	8.0	2	408	816
	23	8.0	2	1015	2030
	24	8.0	4	240	960
	25	8.0	2	497	994
	26	8.0	4	150	600
	27	8.0	1	603	603
	28	8.0	2	175	350
	29	8.0	3	255	765
	30	8.0	1	340	340
	31	8.0	1	1083	1083
	32	8.0	1	172	172
	33	8.0	2	110	220
	34	8.0	2	1200	2400
	35	8.0	2	435	870
	36	8.0	2	142	284
	37	8.0	2	187	374
	38	8.0	3	114	342
	39	8.0	1	195	195
	40	8.0	2	262	524
	41	8.0	3	292	876
	42	8.0	1	190	190
	43	8.0	1	357	357
	44	8.0	1	168	168
	45	8.0	2	826	1652
	46	8.0	1	166	166
	47	8.0	2	452	904
	48	10.0	2	607	1214
	49	10.0	2	166	332
	50	10.0	3	885	2655
	51	10.0	1	624	624
	52	10.0	14	91	1274
	53	10.0	4	CORR	1840
	54	10.0	2	240	480
	55	10.0	3	465	1395
	56	10.0	1	154	154
	57	10.0	2	379	758
	58	12.5	1	318	318
	59	12.5	2	491	982
	60	12.5	1	238	238
	61	12.5	2	855	1710
	62	12.5	1	233	233
	63	12.5	2	870	1740

Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	6.3	1.7	0.5
	8.0	261	113.3
	10.0	107.3	72.7
	12.5	52.3	55.3
CA60	5.0	559	94.8
PESO TOTAL (kg)			
CA50	241.8		
CA60	94.8		

Volume de concreto (C-30) = 6.13 m³
Área de forma = 70.36 m²

BERARDI ENGENHARIA & CONSTRUÇÃO

BERARDI ENGENHARIA & CONSTRUÇÕES LTDA.

Rua Capitão Eleutério, 610, Sala 406, Edifício Centro Executivo, Passo Fundo/RS 99010-060
berardiengenharia@gmail.com (54)3313 9870 - (54) 9994 0837
CNPJ: 13.425.382/0001-47

RESPONSÁVEL TÉCNICO:
Jean Berardi Manica
Engº Civil CREA-RS 133.545-D

CONTRATANTE:
Prefeitura Municipal de Jóia
Cnpj: 89.650.121/0001-92

PROJETO:
PROJETO ESTRUTURAL

CONTEÚDO DA PRANCHA:
FERRAGEM VIGAS LAJE DE FORRO 05

ENDEREÇO DA OBRA:
Rua Dr. Edmar Kruel - Nº 188 - Centro - Jóia/RS

PROJETISTA:	ESCALA:	DATA:	ÁREA DO PROJETO:	PRANCHA:
Jean Berardi	1/50	Agosto de 2017	1.139,11 m²	E-19

DIREITOS AUTORAIS RESERVADOS CONFORME ARTIGO 184 DO CÓDIGO PENAL, LEI 9610 DE 19/02/1998 E RESOLUÇÃO CONFEA 205/71