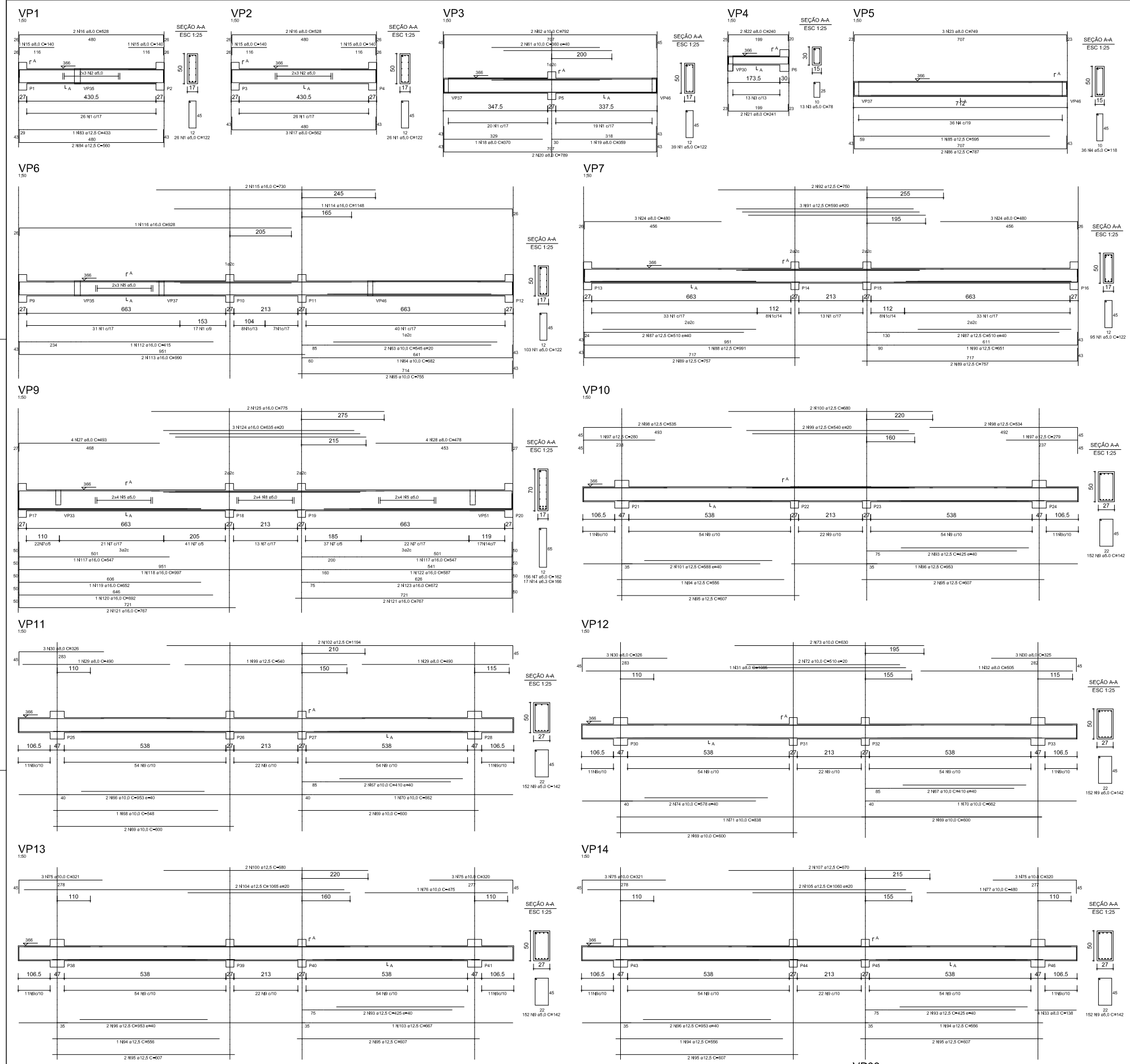

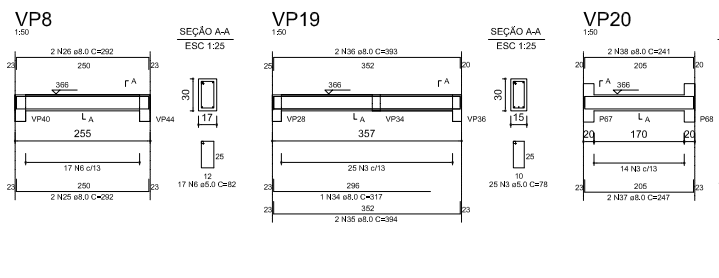

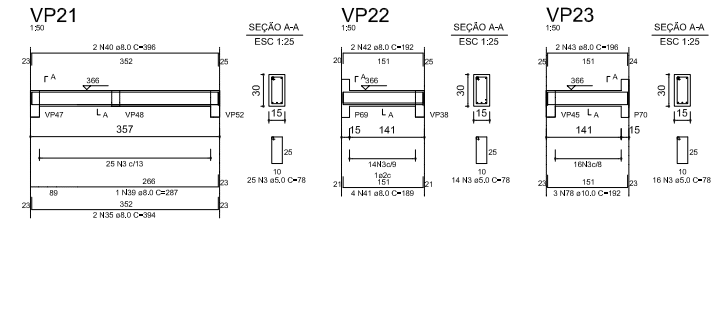

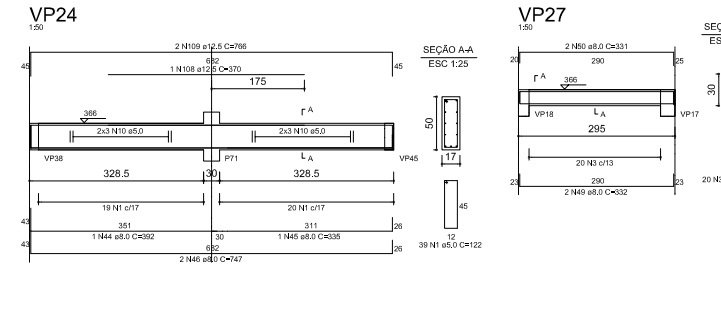

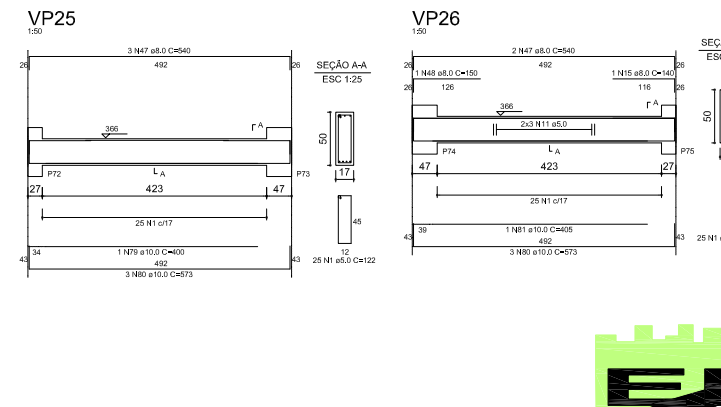

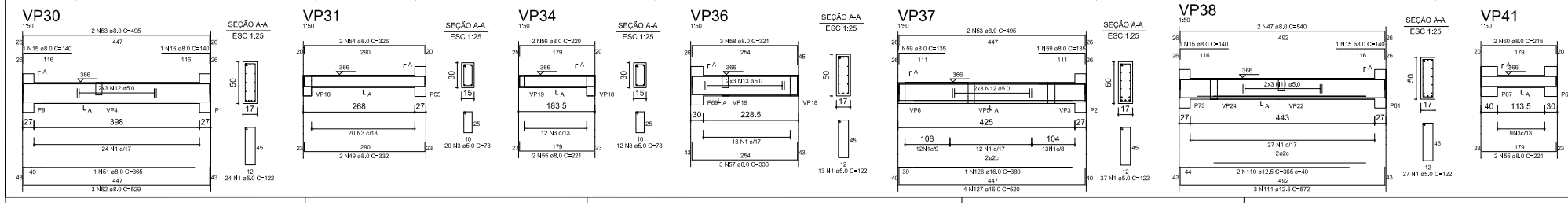

RELAÇÃO DO AÇO

VP1		VP2		VP3							
VP4		VP5		VP6							
VP7		VP8		VP9							
VP10		VP11		VP12							
VP13		VP14		VP19							
VP20		VP21		VP22							
VP23		VP24		VP25							
VP26		VP27		VP28							
VP30		VP31		VP34							
VP36		VP37		VP38							
VP41		VP42									

AÇO	N	DIAM	Q	UNIT (cm)	C.TOTAL (cm)
50	1	5.0	506	122	61732
	2	5.0	12	corr	5820
	3	5.0	177	78	13806
	4	5.0	36	118	4248
	5	5.0	12	127	1524
	6	5.0	17	82	1394
	7	5.0	156	162	25272
	8	5.0	8	corr	1920
	9	5.0	760	142	107920
	10	5.0	12	corr	4128
	11	5.0	12	corr	5964
	12	5.0	12	corr	5424
	13	5.0	6	corr	1554
	14	6.3	17	166	2822
	15	8.0	9	140	1260
	16	8.0	4	528	2112
	17	8.0	3	562	1686
	18	8.0	1	370	370
	19	8.0	1	359	359
	20	8.0	2	789	1578
	21	8.0	2	241	482
	22	8.0	2	240	480
	23	8.0	3	749	2247
	24	8.0	6	480	2880
	25	8.0	2	292	584
	26	8.0	2	292	584
	27	8.0	4	493	1972
	28	8.0	4	478	1912
	29	8.0	2	490	980
	30	8.0	9	326	2934
	31	8.0	1	1085	1085
	32	8.0	1	505	505
	33	8.0	4	138	552
	34	8.0	1	317	317
	35	8.0	4	394	1576
	36	8.0	2	393	786
	37	8.0	2	247	494
	38	8.0	2	241	482
	39	8.0	1	287	287
	40	8.0	4	396	1792
	41	8.0	4	189	756
	42	8.0	2	192	384
	43	8.0	2	196	392
	44	8.0	2	192	384
	45	8.0	1	335	335
	46	8.0	2	365	1460
	47	8.0	10	540	5400
	48	8.0	1	150	150
	49	8.0	4	332	1328
	50	8.0	2	331	662
	51	8.0	1	365	365
	52	8.0	3	529	1587
	53	8.0	4	495	1980
	54	8.0	2	326	652
	55	8.0	6	221	1326
	56	8.0	2	220	440
	57	8.0	3	336	1008
	58	8.0	3	321	963
	59	8.0	2	135	270
	60	8.0	4	215	860
	61	10.0	2	360	720
	62	10.0	2	792	1584
	63	10.0	2	545	1090
	64	10.0	1	682	682
	65	10.0	2	755	1510
	66	10.0	1	953	953
	67	10.0	6	410	2460
	68	10.0	1	548	548
	69	10.0	8	600	4800
	70	10.0	2	662	1324
	71	10.0	1	838	838
	72	10.0	2	510	1020
	73	10.0	2	630	1260
	74	10.0	1	578	578
	75	10.0	12	321	3852
	76	10.0	1	475	475
	77	10.0	1	480	480
	78	10.0	3	192	576
	79	10.0	1	400	400
	80	10.0	9	573	5157
	81	10.0	1	405	405
	82	10.0	1	385	385
	83	12.5	1	433	433
	84	12.5	2	560	1120
	85	12.5	1	595	595
	86	12.5	2	787	1574
	87	12.5	4	510	2040
	88	12.5	1	591	591
	89	12.5	4	797	3188
	90	12.5	1	651	651
	91	12.5	3	590	1770
	92	12.5	2	750	1500
	93	12.5	9	425	3825
	94	12.5	4	556	2224
	95	12.5	12	607	7284
	96	12.5	3	953	2859
	97	12.5	2	280	560
	98	12.5	4	535	2140
	99	12.5	4	540	2160
	100	12.5	4	680	2720
	101	12.5	1	588	588
	102	12.5	2	194	2388
	103	12.5	1	667	667
	104	12.5	1	1065	1065
	105	12.5	1	1060	1060
	106	12.5	1	530	530
	107	12.5	2	670	1340
	108	12.5	1	370	370
	109	12.5	2	766	1532
	110	12.5	2	365	730
	111	12.5	3	572	1716
	112	16.0	1	415	415
	113	16.0	2	990	1980
	114	16.0	1	148	148
	115	16.0	2	730	1460
	116	16.0	1	528	528
	117	16.0	2	547	1094
	118	16.0	1	992	992
	119	16.0	1	652	652
	120	16.0	1	692	692
	121	16.0	4	767	3068
	122	16.0	1	587	587
	123	16.0	2	672	1344
	124	16.0	3	635	1905
	125	16.0	2	775	1550
	126	16.0	1	380	380
	127	16.0	4	520	2080

RESUMO DO AÇO

AÇO	DIAM	C.TOTAL (m)	PESO+10% (kg)
CA50	5.0	2554,9	432,7
	6,3	28,2	7,6
	8,0	500,7	217,7
	10,0	310,8	210,8
	12,5	494,6	524,5
	16,0	202,6	352,5
PESO TOTAL			
CA50	1745,9		

Vol. de concreto total=22,41 m³
Área de forma total = 263,24 m²

ELITE ENGENHARIA
Rua Bougainville, Qd. 03, Lt. 46 – Box 5 – Conjunto Satélite, Senador Canedo/GO – e-mail: brazcampos@uol.com.br – Fones: (62) 3541-8808 / (62) 9971-6693

ESTRUTURAL

Instituto Federal Farroupilha
Campus de João de Castilho

Interessado: Instituto Federal Farroupilha - RS

Autor: Eng° Braz Campos - CREA 7644D - GO

ARQUIVO: IFF - RS - João de Castilho - Administrativo - Estrutural - 13.12.11.dwg

ÁREA DO TERRENO: -

ÁREA PERMEÁVEL: -

ÁREA CONSTRUÍDA: Área Total : 1914,83 m²

Nº PAVIMENTOS: 02 (Dois)

CONTEÚDO: Vigas Baldrame

DESENHISTA: Fábio Borges

FOLHA: 12/17

ENDEREÇO: Rua São João do Barro Preto - Interior, João de Castilhos, RS

DATA: Dezembro/2011

REVISÃO:

	DATA	MOTIVO	REVISOR

APROVAÇÃO: