V1
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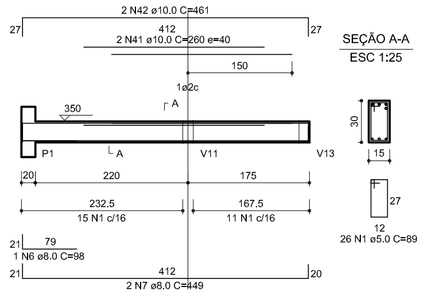

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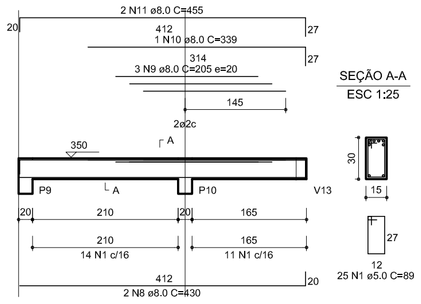

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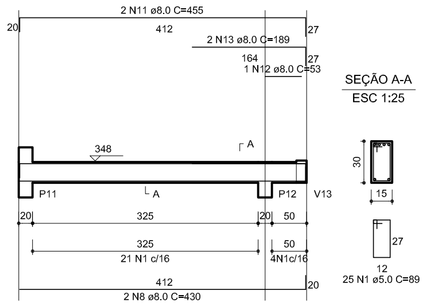
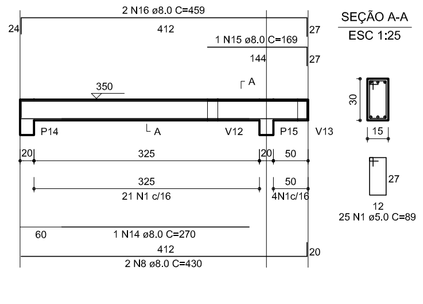
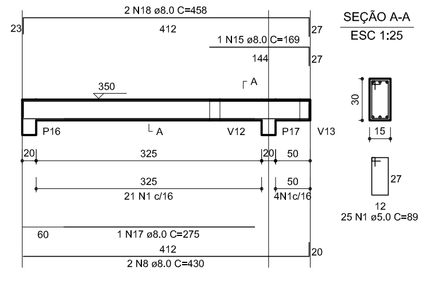


V4
1:50



V5
1:50



V6
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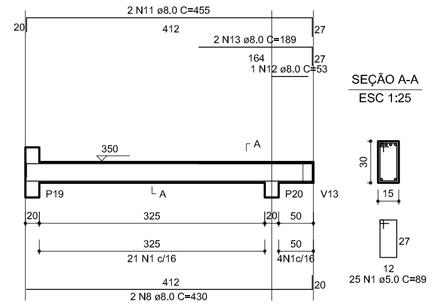
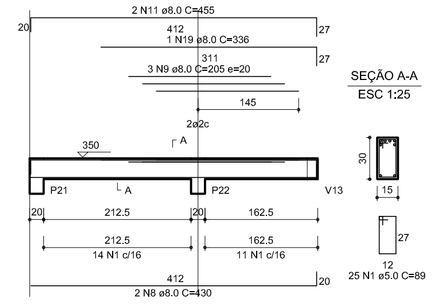
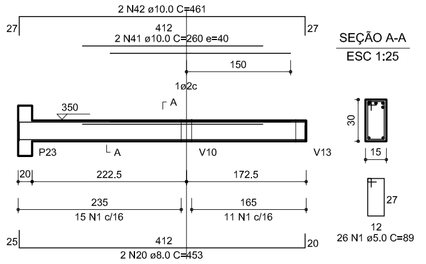


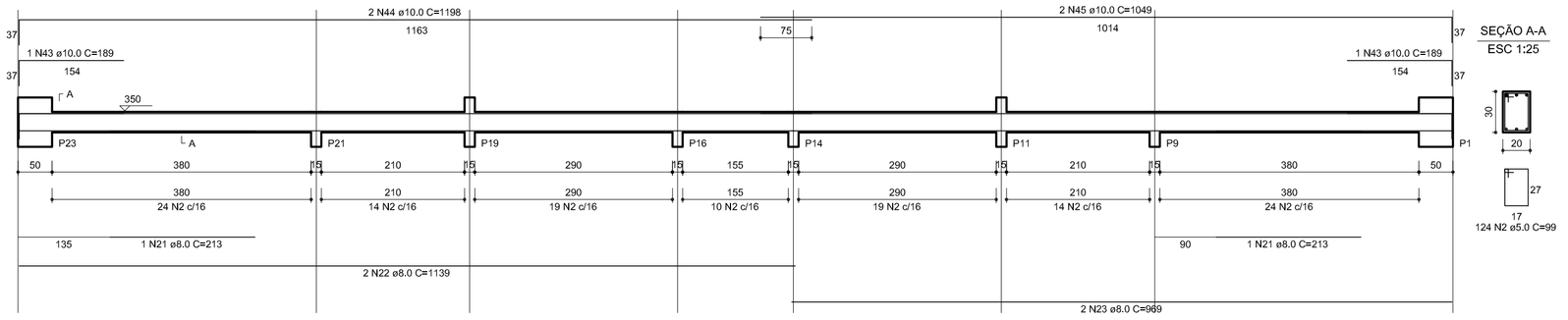
V7
1:50



V8
1:50



V9
1:50



V10
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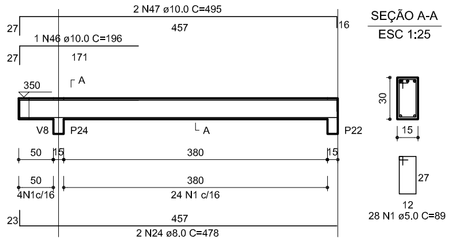

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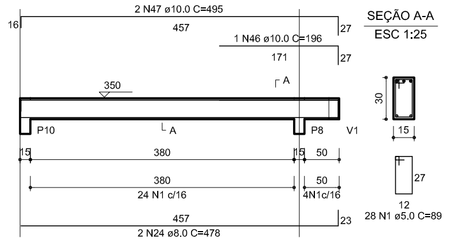
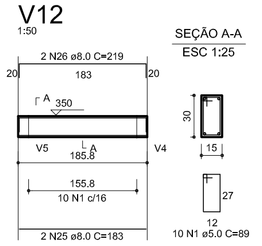
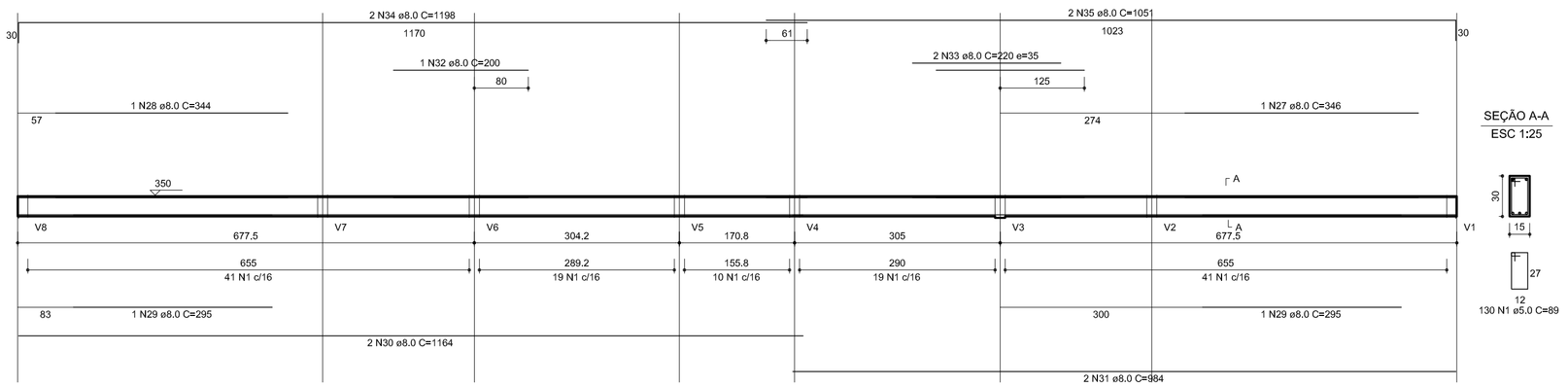


V12
1:50



V13
1:50



V14
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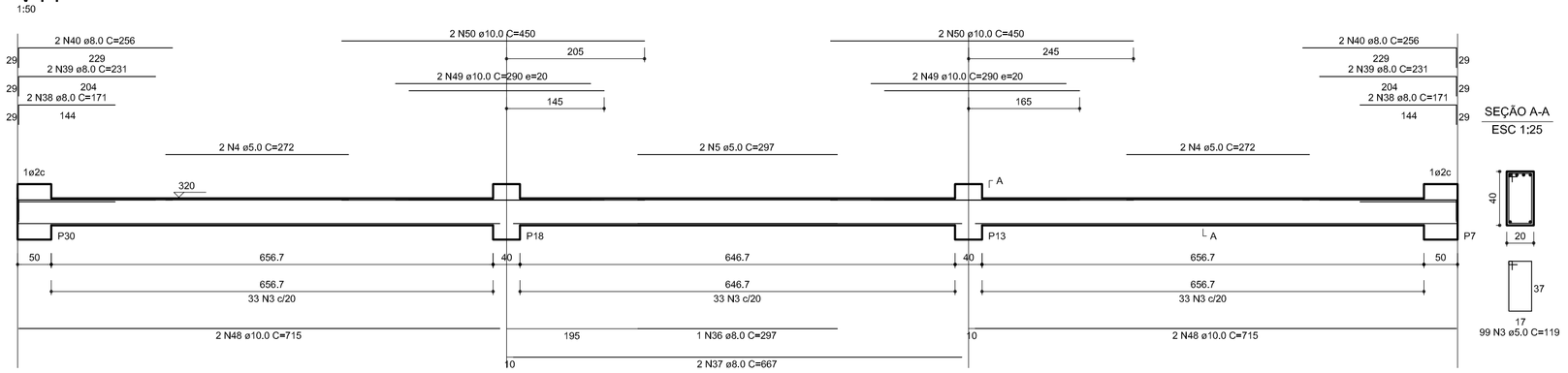

RELAÇÃO DO AÇO

V1	V2	V3
V4	V5	V6
V7	V8	V9
V10	V11	V12
V13	V14	

AÇO	N	DIAM	Q	UNIT (cm)	C.TOTAL (cm)
60	1	5.0	398	89	35422
	2	5.0	124	99	12276
	3	5.0	99	119	11781
	4	5.0	4	272	1088
	5	5.0	2	297	594
50	6	8.0	1	98	98
	7	8.0	2	449	898
	8	8.0	12	430	5160
	9	8.0	6	205	1230
	10	8.0	1	339	339
	11	8.0	8	455	3640
	12	8.0	2	53	106
	13	8.0	4	189	756
	14	8.0	1	270	270
	15	8.0	2	169	338
	16	8.0	2	459	918
	17	8.0	1	275	275
	18	8.0	2	458	916
	19	8.0	1	336	336
	20	8.0	2	453	906
	21	8.0	2	213	426
	22	8.0	2	1139	2278
	23	8.0	2	969	1938
	24	8.0	4	478	1912
	25	8.0	2	183	366
	26	8.0	2	219	438
	27	8.0	1	346	346
	28	8.0	1	344	344
	29	8.0	2	295	590
	30	8.0	2	1164	2328
	31	8.0	2	984	1968
	32	8.0	1	200	200
	33	8.0	2	220	440
	34	8.0	2	1198	2396
	35	8.0	2	1051	2102
	36	8.0	1	297	297
	37	8.0	2	667	1334
	38	8.0	4	171	684
	39	8.0	4	231	924
	40	8.0	4	256	1024
	41	10.0	4	260	1040
	42	10.0	4	461	1844
	43	10.0	2	189	378
	44	10.0	2	1198	2396
	45	10.0	2	1049	2098
	46	10.0	2	196	392
	47	10.0	4	495	1980
	48	10.0	4	715	2860
	49	10.0	4	290	1160
	50	10.0	4	450	1800

RESUMO DO AÇO

AÇO	DIAM	C.TOTAL (m)	PESO+10% (kg)
CA50	8.0	385.3	167.5
	10.0	159.5	106.2
CA60	5.0	614.7	104.1
PESO TOTAL			
CA50	275.7		
CA60	104.1		

Vol. de concreto total =5.93 m³
Área de forma total = 87.45 m²

GOVERNO FEDERAL
BRASIL
PAÍS RICO É PAÍS SEM POBREZA
Ministério da Educação
FNDE Fundo Nacional de Desenvolvimento da Educação

PROJETO PADRÃO - FNDE

MUNICÍPIO – UF: VICTOR GRAEFF - RS

PROPRIETÁRIO: MUNICÍPIO DE VICTOR GRAEFF

ENDEREÇO: Rua Fridholdo Fischer, esquina com Av. 17 de Março

PROPRIETÁRIO Município de Victor Graeff

RESP. TÉCNICO Dirson Henrique Wentz
Engº Civil CREARS 86911
CREA

DLFO

CREA

RA

OBSERVAÇÕES:

QUADRA COBERTA

PROJETO ESTRUTURAL

COORDENAÇÃO
CGEST - Coordenação Geral de Infraestrutura Educacional

ESTRUTURA DE CONCRETO
VIGAS - NÍVEL 320

EST

FORMATO
A1 (841 X 594)

REVISÃO
R.00
R.00
R.00

ESCALA
1/125

DATA EMISSÃO
JULHO/2011

PRANCHA
11/11