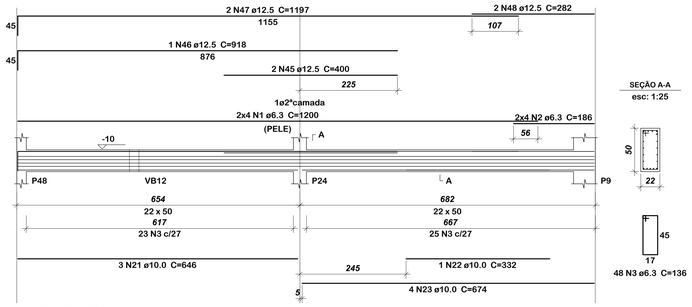
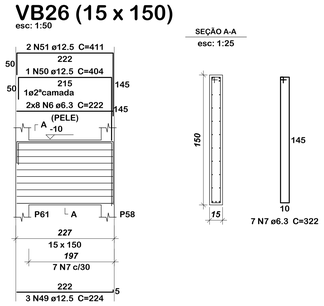
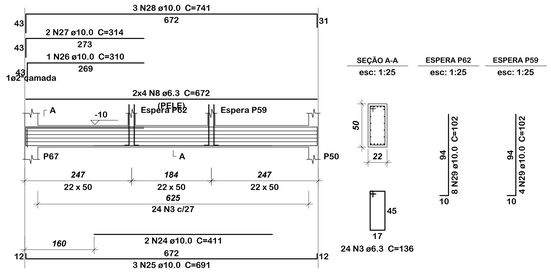
VB25 (22 x 50)
esc: 1:50



VB26 (15 x 150)
esc: 1:50



VB27 (22 x 50)
esc: 1:50



Relação do aço

AÇO	N	DIAM (mm)	QUANT (Barras)	UNIT (cm)	C.TOTAL (cm)
CA50	1	6.3	46	1200	55200
	2	6.3	38	186	7068
	3	6.3	258	136	35088
	4	6.3	74	122	9028
	5	6.3	8	236	1888
	6	6.3	16	222	3552
	7	6.3	7	322	2254
	8	6.3	8	672	5376
	9	6.3	6	805	4830
	10	10.0	14	655	9170
	11	10.0	6	665	3990
	12	10.0	1	852	852
	13	10.0	2	855	1710
	14	10.0	5	1199	5995
	15	10.0	5	230	1150
	16	10.0	1	313	313
	17	10.0	2	910	1820
	18	10.0	2	418	836
	19	10.0	1	619	619
	20	10.0	5	715	3575
	21	10.0	3	646	1938
	22	10.0	1	332	332
	23	10.0	4	674	2696
	24	10.0	2	411	822
	25	10.0	3	691	2073
	26	10.0	1	310	310
	27	10.0	2	314	628
	28	10.0	3	741	2223
	29	10.0	12	102	1224
	30	10.0	2	805	1610
	31	10.0	2	862	1724
	32	12.5	1	309	309
	33	12.5	2	871	1742
	34	12.5	7	1197	8379
	35	12.5	2	252	504
	36	12.5	1	254	254
	37	12.5	1	350	350
	38	12.5	1	830	830
	39	12.5	2	238	476
	40	12.5	3	395	1185
	41	12.5	1	961	961
	42	12.5	1	325	325
	43	12.5	1	329	329
	44	12.5	3	310	930
	45	12.5	2	400	800
	46	12.5	1	918	918
	47	12.5	2	1197	2394
	48	12.5	2	282	564
	49	12.5	3	224	672
	50	12.5	1	404	404
	51	12.5	2	411	822

Resumo do aço

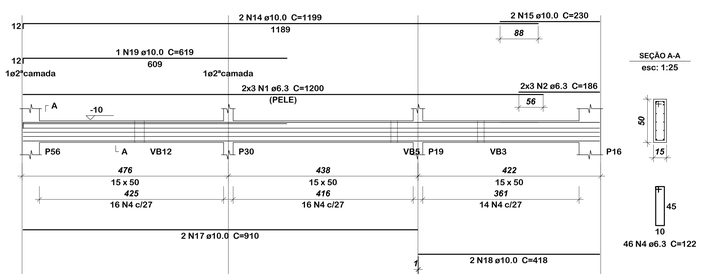
AÇO	DIAM (mm)	C.TOTAL (m)	PESO (kg)
CA50	6.3	1242.9	304.1
	10.0	456.1	281.2
	12.5	231.5	223
PESO TOTAL (kg)			
CA50	808.3		

Volume de concreto (C-20) = 10.26 m³
Área de forma = 122.12 m²

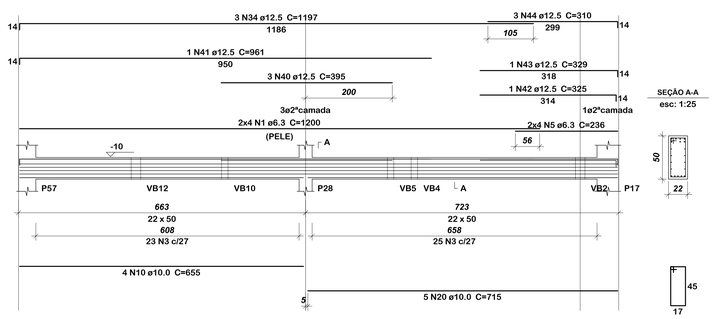
VB28 (22 x 50)
esc: 1:50

VB29 (22 x 50)
esc: 1:50

VB32 (15 x 50)
esc: 1:50



VB34 (22 x 50)
esc: 1:50



VB31 (15 x 50)
esc: 1:50

VB30 (22 x 50)
esc: 1:50

VB25 VB26 VB27
VB28 VB29 VB30
VB31 VB32 VB34

MINISTÉRIO DA EDUCAÇÃO
UNIVERSIDADE FEDERAL DE LAVRAS

EMPRESA
EMPRESA: AS BUILT ENGENHARIA DE PROJETOS LTDA
CNPJ: 09.480.531/0001-01

PROJETO
TÍTULO: PROJETO ESTRUTURAL DBI
CONTEÚDO: FERRAGEM DAS VIGAS: BALDRAMES (3/3)
AUTOR DO PROJETO: CARLOS HENRIQUE DE SOUZA GONÇALVES, ENGENHEIRO CIVIL – CREA-PR 76820
EXECUÇÃO DE OBRA:

DATA:	REVISÃO DATA:	PROJETO:
12/2014	-	EXECUTIVO
ESCALA:	ÁREA: (m²)	FOLHA:
INDICADA	1.859,96	EST 07 /20