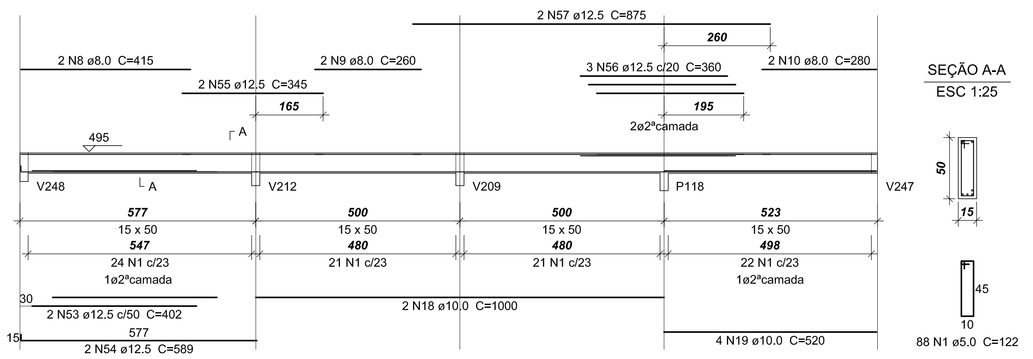
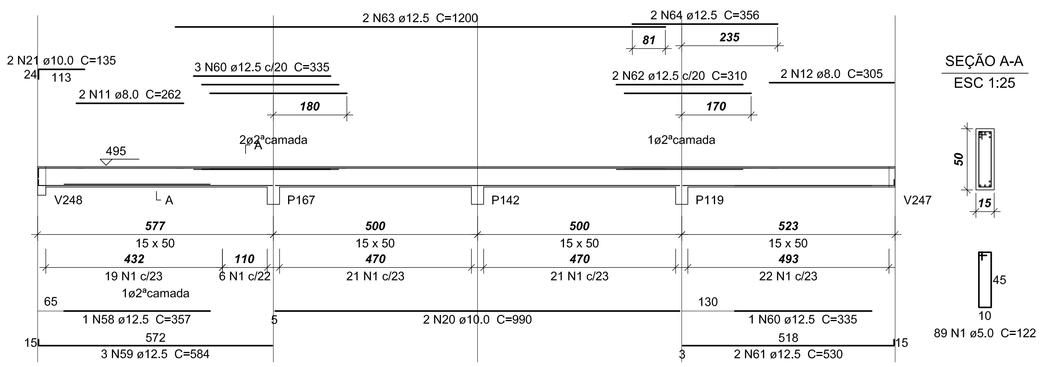
V217 (15 x 50)

1:75



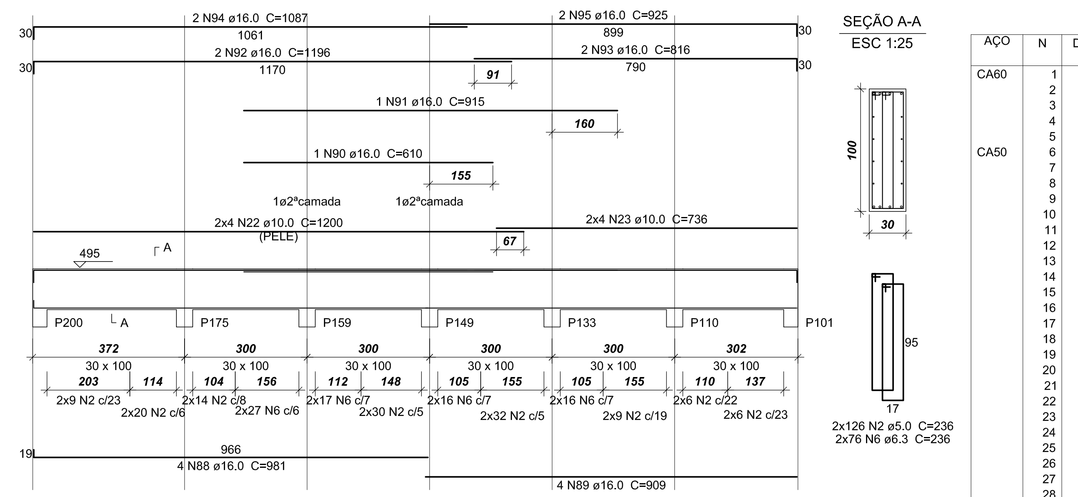
V219 (15 x 50)

1:75



V237 (30 x 100)

1:75

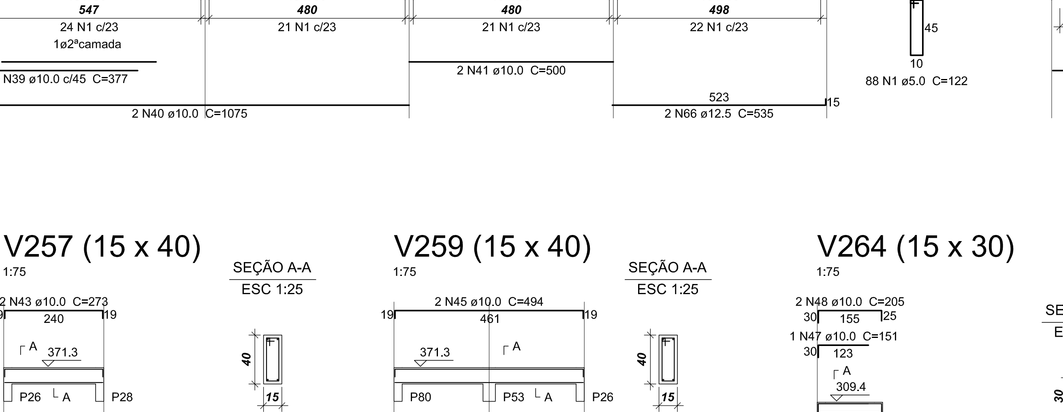


Relação do aço

AÇO	N	DIAM	Q	UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	749	122	91378
	2	5.0	552	236	130272
	3	5.0	56	82	4592
	4	5.0	9	120	1080
	5	5.0	30	102	3060
CA50	6	6.3	152	236	35872
	7	6.3	2	143	286
	8	8.0	2	415	830
	9	8.0	2	260	520
	10	8.0	2	280	560
	11	8.0	6	262	1572
	12	8.0	6	305	1830
	13	8.0	2	327	654
	14	8.0	6	240	1440
	15	8.0	2	337	674
	16	8.0	2	466	932
	17	8.0	2	405	810
	18	10.0	6	1000	6000
	19	10.0	4	520	2080
	20	10.0	6	990	5940
	21	10.0	2	135	270
	22	10.0	16	1200	19200
	23	10.0	16	736	11776
	24	10.0	6	130	780
	25	10.0	4	112	448
	26	10.0	8	243	1944
	27	10.0	4	266	1064
	28	10.0	1	545	545
	29	10.0	2	1045	2090
	30	10.0	1	560	560
	31	10.0	2	1060	2120
	32	10.0	1	395	395
	33	10.0	2	767	1534
	34	10.0	1	155	155
	35	10.0	3	240	720
	36	10.0	2	150	300
	37	10.0	2	238	476
	38	10.0	2	277	554
	39	10.0	2	377	754
	40	10.0	2	1075	2150
	41	10.0	2	500	1000
	42	10.0	2	240	480
	43	10.0	2	273	546
	44	10.0	2	461	922
	45	10.0	2	494	988
	46	10.0	2	167	334
	47	10.0	1	151	151
	48	10.0	2	205	410
	49	10.0	2	187	374
	50	10.0	2	175	350
	51	10.0	4	255	1020
	52	10.0	2	155	310
	53	12.5	2	402	804
	54	12.5	6	589	3534
	55	12.5	2	345	690
	56	12.5	3	360	1080
	57	12.5	2	875	1750
	58	12.5	1	357	357
	59	12.5	3	584	1752
	60	12.5	6	335	2010
	61	12.5	6	530	3180
	62	12.5	2	310	620
	63	12.5	14	1200	16800
	64	12.5	2	356	712
	65	12.5	1	372	372
	66	12.5	6	535	3210
	67	12.5	2	245	490
	68	12.5	3	300	900
	69	12.5	2	299	598
	70	12.5	2	101	202
	71	12.5	6	572	3432
	72	12.5	2	325	650
	73	12.5	4	305	1220
	74	12.5	4	359	1436
	75	12.5	1	377	377
	76	12.5	2	119	238
	77	12.5	1	240	240
	78	12.5	2	294	588
	79	12.5	2	198	396
	80	12.5	1	265	265
	81	12.5	1	275	275
	82	12.5	2	203	406
	83	12.5	2	979	1958
	84	12.5	1	230	230
	85	12.5	2	309	618
	86	12.5	2	330	660
	87	12.5	2	197	394
	88	16.0	4	981	3924
	89	16.0	8	909	7272
	90	16.0	1	610	610
	91	16.0	1	915	915
	92	16.0	6	1196	7176
	93	16.0	2	816	1632
	94	16.0	2	1087	2174
	95	16.0	2	925	1850
	96	16.0	4	966	3864
	97	16.0	1	635	635
	98	16.0	4	830	3320

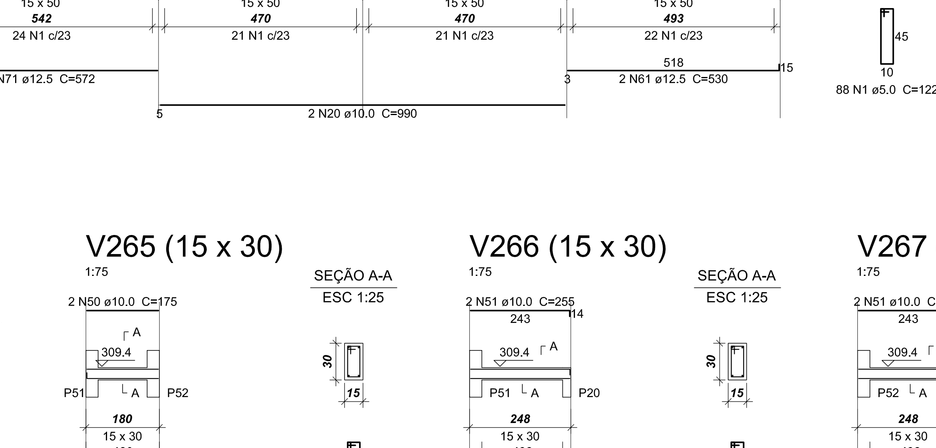
V221 (15 x 50)

1:75



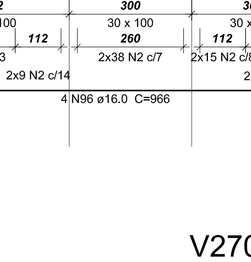
V222 (15 x 50)

1:75



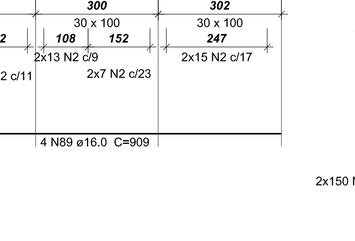
V253 (15 x 30)

1:75



V254 (15 x 30)

1:75



V223 (15 x 50)

1:75

V224 (15 x 50)

1:75

V255 (15 x 50)

1:75

V261 (14 x 50)

1:75

V225 (15 x 50)

1:75

V226 (15 x 50)

1:75

V238 (30 x 100)

1:75

Resumo do aço

AÇO	DIAM	C.TOTAL (m)	PESO (kg)
CA50	6.3	361.6	88.5
	8.0	98.3	38.8
	10.0	687.4	423.8
	12.5	524.5	505.2
	16.0	333.8	526.7
CA60	5.0	2303.9	355.1
PESO TOTAL			
CA50	1583		
CA60	355.1		

Vol. de concreto total (C-30) = 25.74 m³
Área de forma total = 309.64 m²

V257 (15 x 40)

1:75

V259 (15 x 40)

1:75

V264 (15 x 30)

1:75

V265 (15 x 30)

1:75

V266 (15 x 30)

1:75

V267 (15 x 30)

1:75

V270 (15 x 50)

1:75

V217	V219	V221
V222	V223	V224
V225	V226	V237
V238	V253	V254
V255	V257	V259
V261	V264	V265
V266	V267	V270

AS BUILT PROJETOS
Rua Jovino do Rosário, 1564 – Boa Vista
CEP 82560-435 – Curitiba – Paraná

OBRA:	GALPÃO DE ENGENHARIA – TEÓFILO OTONI
PROPRIETÁRIO:	UNIVERSIDADE DOS VALES DO JEQUITINHONHA E MUCURI – UFVJM
ENDEREÇO:	AVENIDA DR. LUIS BOALI PORTO SALMAN, S/Nº – BAIRRO IPIRANGA – TEÓFILO OTONI/MG
PROJETO ESTRUTURAL	PRANCHA: EST 17/38
REFERÊNCIA:	FERRAGEM DAS VIGAS: PAVIMENTO TÉRREO (3)
AUTOR DO PROJETO:	ENG. CIVIL CARLOS HENRIQUE DE S. GONÇALVES – CREA 7.982-D/PR
ARQUIVO:	CARLOS
DESENHO:	
DATA:	27/09/2012
ESCALA:	INDICADA