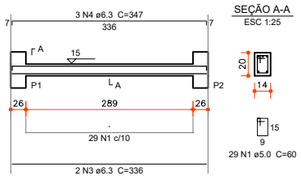
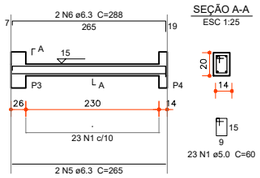
VIGAS DO PAVIMENTO TÉRREO

V1
ESC 1:50



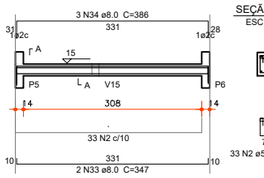
SEÇÃO A-A
ESC 1:25

V2=V5
ESC 1:50



SEÇÃO A-A
ESC 1:25

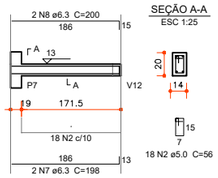
V3
ESC 1:50



SEÇÃO A-A
ESC 1:25

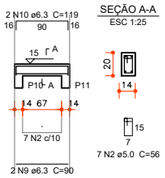


V4
ESC 1:50



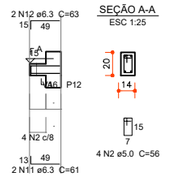
SEÇÃO A-A
ESC 1:25

V6
ESC 1:50



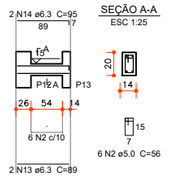
SEÇÃO A-A
ESC 1:25

V7
ESC 1:50



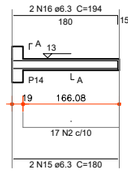
SEÇÃO A-A
ESC 1:25

V8
ESC 1:50

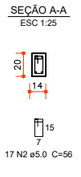


SEÇÃO A-A
ESC 1:25

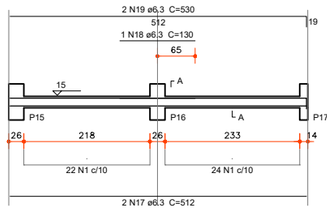
V9
ESC 1:50



SEÇÃO A-A
ESC 1:25



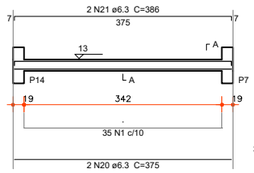
V10
ESC 1:50



SEÇÃO A-A
ESC 1:25



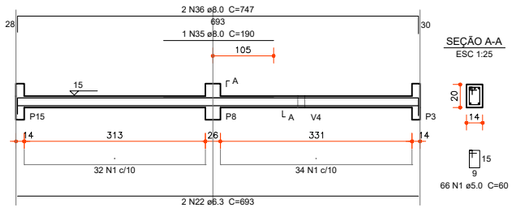
V11
ESC 1:50



SEÇÃO A-A
ESC 1:25

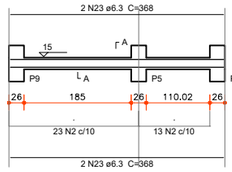


V12
ESC 1:50

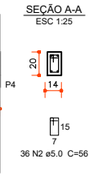


SEÇÃO A-A
ESC 1:25

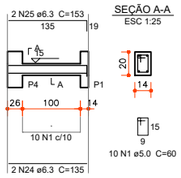
V13
ESC 1:50



SEÇÃO A-A
ESC 1:25

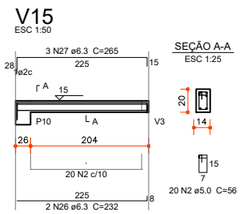


V14
ESC 1:50



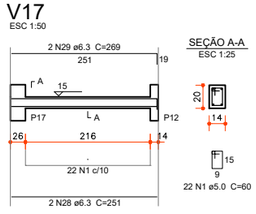
SEÇÃO A-A
ESC 1:25

V15
ESC 1:50



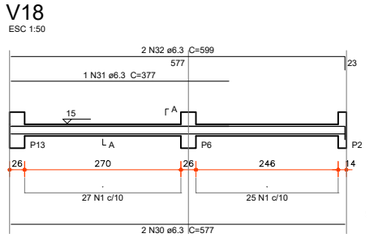
SEÇÃO A-A
ESC 1:25

V17
ESC 1:50



SEÇÃO A-A
ESC 1:25

V18
ESC 1:50

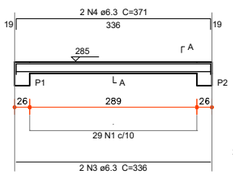


SEÇÃO A-A
ESC 1:25



VIGAS DO PAVIMENTO SUPERIOR

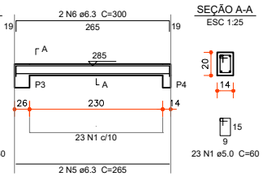
V1=V3
ESC 1:50



SEÇÃO A-A
ESC 1:25

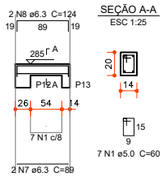


V2=V4
ESC 1:50



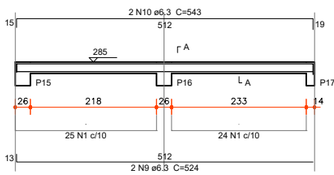
SEÇÃO A-A
ESC 1:25

V5
ESC 1:50



SEÇÃO A-A
ESC 1:25

V6
ESC 1:50



SEÇÃO A-A
ESC 1:25



V7
ESC 1:50

SEÇÃO A-A
ESC 1:25

V8
ESC 1:50

SEÇÃO A-A
ESC 1:25

V9
ESC 1:50

SEÇÃO A-A
ESC 1:25

V10
ESC 1:50

SEÇÃO A-A
ESC 1:25

V11
ESC 1:50

SEÇÃO A-A
ESC 1:25

Relação do aço

V1		2xV2		V3	V18
V4		V6		V7	
V8		V9		V10	
V11		V12		V13	
V14		V15		V17	

AÇO	N	DIAM (mm)	QUANT (Barras)	UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	306	60	18360
	2	5.0	141	56	7896
CA50	3	6.3	2	336	672
	4	6.3	3	347	1041
	5	6.3	4	265	1060
	6	6.3	4	288	1152
	7	6.3	2	198	396
	8	6.3	2	200	400
	9	6.3	2	90	180
	10	6.3	2	119	238
	11	6.3	2	61	122
	12	6.3	2	63	126
	13	6.3	2	89	178
	14	6.3	2	95	190
	15	6.3	2	180	360
	16	6.3	2	194	388
	17	6.3	2	512	1024
	18	6.3	1	130	130
	19	6.3	2	530	1060
	20	6.3	2	375	750
	21	6.3	2	386	772
	22	6.3	2	693	1386
	23	6.3	4	368	1472
	24	6.3	2	135	270
	25	6.3	2	153	306
	26	6.3	2	232	464
	27	6.3	3	265	795
	28	6.3	2	251	502
	29	6.3	2	269	538
	30	6.3	2	577	1154
	31	6.3	1	377	377
	32	6.3	2	599	1198
	33	8.0	2	347	694
	34	8.0	3	386	1158
	35	8.0	1	190	190
	36	8.0	2	747	1494

Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	6.3	187.1	50.3
	8.0	35.4	15.3
CA60	5.0	262.6	44.5
PESO TOTAL (kg)			
CA50	65.7		
CA60	44.5		

Volume de concreto (C-20) = 1.34 m³
Área de forma = 26.75 m²

Relação do aço

2xV1	2xV2	V5	
V6	V7	V8	
V9	V10	V11	

AÇO	N	DIAM (mm)	QUANT (Barras)	UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	313	60	18780
	2	5.0	70	56	3920
CA50	3	6.3	4	336	1344
	4	6.3	4	371	1484
	5	6.3	4	265	1060
	6	6.3	4	300	1200
	7	6.3	2	89	178
	8	6.3	2	124	248
	9	6.3	2	524	1048
	10	6.3	2	543	1086
	11	6.3	2	693	1386
	12	6.3	2	728	1456
	13	6.3	2	705	1410
	14	6.3	2	135	270
	15	6.3	2	170	340
	16	6.3	2	251	502
	17	6.3	2	286	572
	18	6.3	2	584	1168
	19	8.0	1	135	135
	20	8.0	2	735	1470
	21	8.0	1	175	175
	22	8.0	2	623	1246

Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	6.3	147.6	39.7
	8.0	30.3	13.1
CA60	5.0	227	38.5
PESO TOTAL (kg)			
CA50	52.8		
CA60	38.5		

Volume de concreto (C-20) = 1.15 m³
Área de forma = 22.64 m²

USO EXCLUSIVO DA COHAPAR

REVISÕES

REV	DATA	DESCRIÇÃO	
R00	05/12/2017	EMISSÃO INICIAL	DVIE-EM

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USO EXCLUSIVO DA COHAPAR

RESPONSÁVEL TÉCNICO - COHAPAR:

COHAPAR

ANUÊNCIA DO ENGENHEIRO DO ESCRITÓRIO REGIONAL - COHAPAR:

COHAPAR

COHAPAR
Companhia de Habitação do Paraná

PRANCHA: EST 02 02

REVISÃO: R 00

MBP 44 PD
44,46m²

MORAR BEM PARANÁ

PROJETO ESTRUTURAL
VIGAS DO PAV. INFERIOR E PAV. SUPERIOR

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escala: INDICADAS	data da criação: 14/08/2017
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