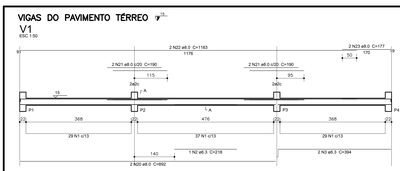
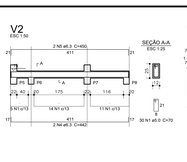
VIGAS DO PAVIMENTO TÉRREO

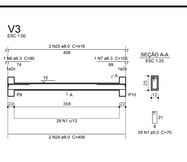
V1
ESC 1:50



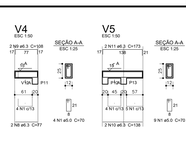
V2
ESC 1:50



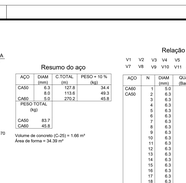
V3
ESC 1:50



V4
ESC 1:50



V5
ESC 1:50



Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	6.3	127.8	34.4
	8.0	115.6	49.3
CA60	5.0	270.2	43.8
PESO TOTAL (kg)			
CA50	83.7		
CA60	43.8		

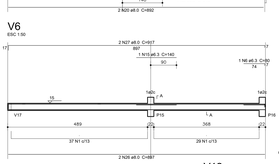
Volume de concreto (C-25) = 1.66 m³
Área da forma = 34.39 m²

Relação do aço

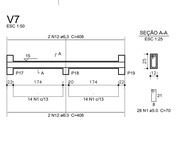
V1	V2	V3	V4	V5	V6
V7	V8	V9	V10	V11	V13	V14

AÇO	N	DIAM (mm)	QUANT (Barras)	UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	1	129	129
CA50	3	6.3	1	218	218
	4	6.3	2	394	788
	5	6.3	2	442	884
	6	6.3	2	450	900
	7	6.3	1	105	105
	8	6.3	1	77	154
	9	6.3	2	108	216
	10	6.3	2	138	276
	11	6.3	2	1046	2092
	12	6.3	12	408	4896
	13	6.3	2	97	194
	14	6.3	1	130	130
	15	6.3	2	120	240
	16	6.3	4	419	1676
	17	6.3	2	130	260
	18	6.3	2	161	322
	19	6.3	2	97	194
	20	8.0	2	882	1764
	21	8.0	4	190	760
	22	8.0	2	1183	2366
	23	8.0	2	177	354
	24	8.0	2	419	838
	25	8.0	2	419	838
	26	8.0	2	897	1794
	27	8.0	2	917	1834

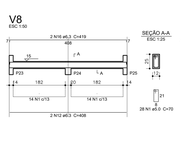
V6
ESC 1:50



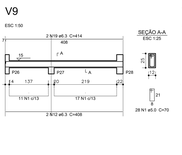
V7
ESC 1:50



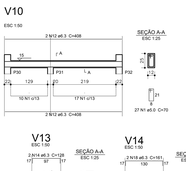
V8
ESC 1:50



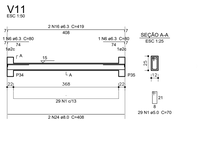
V9
ESC 1:50



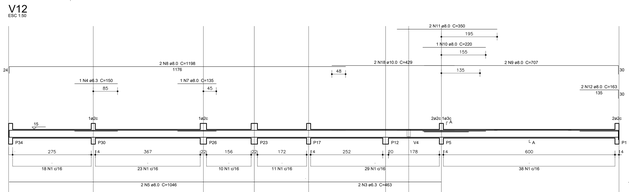
V10
ESC 1:50



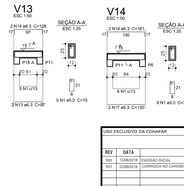
V11
ESC 1:50



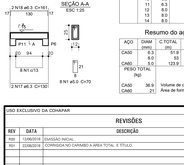
V12
ESC 1:50



V13
ESC 1:50



V14
ESC 1:50



Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	6.3	51.9	13.9
	8.0	12.9	6.2
CA60	5.0	123.9	21
PESO TOTAL (kg)			
CA50	36.9		
CA60	21		

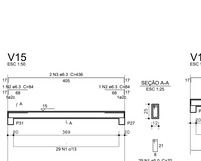
Volume de concreto (C-25) = 0.73 m³
Área da forma = 15.18 m²

Relação do aço

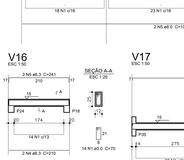
V15	V16	V17
V18	V19	V20
V21	V22	V23

AÇO	N	DIAM (mm)	QUANT (Barras)	UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	1	172	72
CA50	2	6.3	2	84	168
	3	6.3	2	218	436
	4	6.3	2	210	420
	5	6.3	2	241	482
	6	6.3	2	299	598
	7	6.3	2	310	620
	8	6.3	2	410	820
	9	6.3	1	155	155
	10	6.3	1	105	105
	11	6.3	2	394	788
	12	8.0	2	405	810
	13	8.0	2	1186	2372
	14	8.0	2	1198	2396

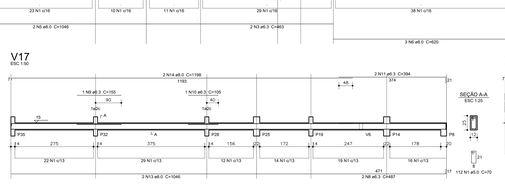
V15
ESC 1:50



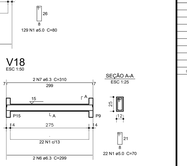
V16
ESC 1:50



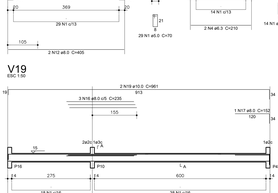
V17
ESC 1:50



V18
ESC 1:50



V19
ESC 1:50



Relação do aço

V12	V18

AÇO	N	DIAM (mm)	QUANT (Barras)	UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	1	460	18600
CA50	4	6.3	1	460	926
	5	6.3	1	150	150
	6	6.3	2	2050	4100
	7	6.3	1	155	155
	8	8.0	1	1198	2396
	9	8.0	2	707	1414
	10	8.0	2	1186	2372
	11	8.0	1	350	700
	12	8.0	2	163	326
	13	8.0	2	293	586
	16	8.0	3	235	705
	17	8.0	2	429	858
	18	10.0	1	429	858
	19	10.0	2	961	1922

Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	6.3	10.8	2.9
	8.0	124.5	59.8
	10.0	19.2	14.5
CA60	5.0	146.6	24.3
PESO TOTAL (kg)			
CA50	76.6		
CA60	24.3		

Volume de concreto (C-20) = 1.10 m³
Área da forma = 23.40 m²

USO EXCLUSIVO DA COHAPAR

REV	DATA	DESCRIÇÃO	SIGLA AUT.
002	12/06/2018	EMISSÃO INICIAL	DVS/LPJ/
001	22/08/2018	CORREÇÃO NO CARIMBO A AREA TOTAL E TITULO	DVS/EAV

g:\obra\dwg\projetos 2018\1.condominios do idosa\1.centro de convivência 1\1.set_1_eq-206_r01.dwg

RESPONSÁVEL TÉCNICO: COHAPAR — ANUÊNCIA DO ENGENHEIRO DE EQUIPE/ÓRGÃO REGIONAL: COHAPAR

COHAPAR — Companhia de Habitação do Paraná

CENTRO DE CONVIVÊNCIA TI

206.59

PROJETO ESTRUTURAL
VIGAS DO PAV.TÉRREO

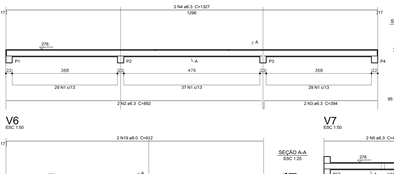
PRANCHA: EST 03 04 | REVISÃO: R 01

MORAR BEM PARANÁ

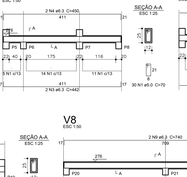
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S/ESCALA	12/06/2018
ARQUIVO:	
EST_TI_EQ-206.R01.dwg	
RESPONSÁVEL:	
NOME:	ASSINATURA:

VIGAS DO PAVIMENTO SUPERIOR

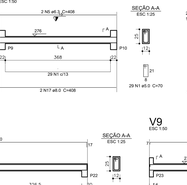
V1
ESC 1:50



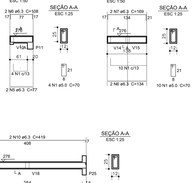
V2
ESC 1:50



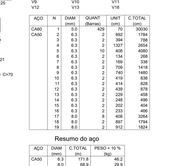
V3
ESC 1:50



V4
ESC 1:50



V5
ESC 1:50

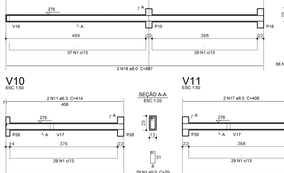


Relação do aço

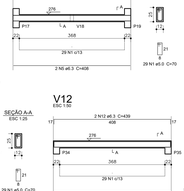
V1	V2	V3	V5
V6	V7	V10	V11
V12		V13	V18

AÇO	N	DIAM (mm)	QUANT (Barras)	UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	429	70	30030
CA50	2	6.3	2	129	258
	3	6.3	2	394	788
	4	6.3	2	1327	2654
	5	6.3	10	450	4500
	6	6.3	2	134	268
	7	6.3	2	108	216
	8	6.3	2	709	1418
	9	6.3	2	740	1480
	10	6.3	2	419	838
	11	6.3	2	414	828
	12	6.3	2	229	458
	13	6.3	2	229	458
	14	6.3	2	248	496
	15	6.3	2	232	464
	16	6.3	2	203	406
	17	8.0	8	408	3264
	18	8.0	2	897	1794
	19	8.0	1	912	1824

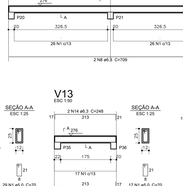
V6
ESC 1:50



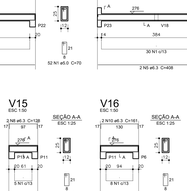
V7
ESC 1:50



V8
ESC 1:50



V9
ESC 1:50



Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	6.3	111.8	46.2
	8.0	68.9	29.9
CA60	5.0	800.3	50.9
PESO TOTAL (kg)			
CA50	76.1		
CA60	50.9		

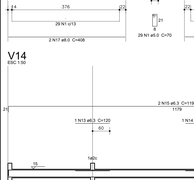
Volume de concreto (C-25) = 1.78 m³
Área da forma = 36.87 m²

Relação do aço

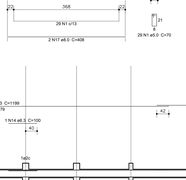
V2	V4
V15	V16

AÇO	N	DIAM (mm)	QUANT (Barras)	UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	1	129	129
CA50	3	6.3	2	442	884
	4	6.3	2	450	900
	5	6.3	2	77	154
	6	6.3	2	108	216
	7	6.3	1	97	194
	8	6.3	2	128	256
	9	6.3	2	138	276
	10	6.3	2	161	322
	11	6.3	2	1046	2092
	12	6.3	2	483	966
	13	6.3	1	120	120
	14	6.3	2	130	260
	15	6.3	2	1186	2372
	16	8.0	1	294	294
	17	8.0	1	415	830
	18	8.0	1	130	130
	19	8.0	1	130	130
	20	8.0	2	360	720
	21	8.0	1	138	138
	22	10.0	2	620	1240
	23	10.0	2	667	1334

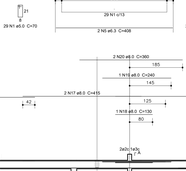
V10
ESC 1:50



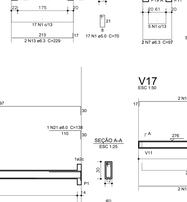
V11
ESC 1:50



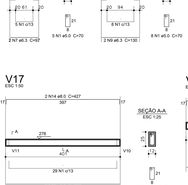
V12
ESC 1:50



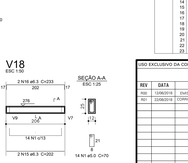
V13
ESC 1:50



V15
ESC 1:50



V16
ESC 1:50



Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	6.3	23.7	19.2
	8.0	26.4	17.9
	10.0	196.1	23.1
PESO TOTAL (kg)			
CA50	51.8		
CA60	23.1		

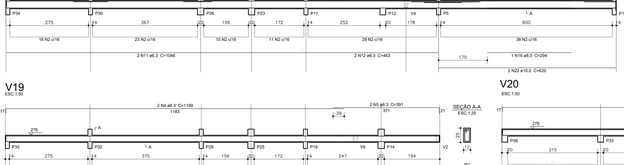
Volume de concreto (C-25) = 0.99 m³
Área da forma = 19.9 m²

Relação do aço

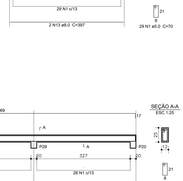
V10	V11	V12	V13	V15	V16
V17	V18	V19	V20		

AÇO	N	DIAM (mm)	QUANT (Barras)	UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	1	387	387
CA50	2	6.3	2	376	752
	3	6.3	2	1046	2092
	4	6.3	2	1008	2016
	5	6.3	2	299	598
	6	6.3	2	310	620
	7	6.3	2	205	410
	8	6.3	2	203	406
	9	6.3	2	309	618
	10	8.0	2	397	794
	11	8.0	2	427	854
	12	8.0	2	928	1856
	13	8.0	2	947	1894

V14
ESC 1:50



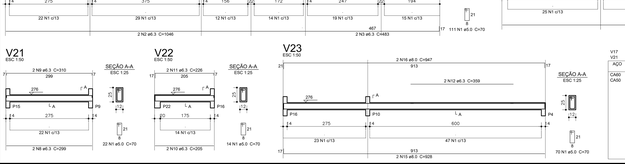
V17
ESC 1:50



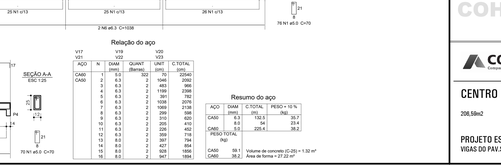
V18
ESC 1:50



V19
ESC 1:50



V20
ESC 1:50



V21
ESC 1:50

V22
ESC 1:50

V23
ESC 1:50

Relação do aço

V17	V19	V20
V21	V22	V23

AÇO	N	DIAM (mm)	QUANT (Barras)	UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	322	129	41540
CA50	3	6.3	2	1046	2092
	4	6.3	2	483	966
	5	6.3	2	1199	2398
	6	6.3	2	391	782
	7	6.3	2	1008	2016
	8	6.3	2	1069	2138
	9	6.3	2	299	598
	10	6.3	2	310	620
	11	6.3	2	205	410
	12	6.3	2	203	406
	13	6.3	2	309	618
	14	8.0	2	397	794
	15	8.0	2	427	854
	16	8.0	2	928	1856
	17	8.0	2	947	1894

Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	6.3	132.5	32.7
	8.0	54	23.4
CA60	5.0	205.6	38.2
PESO TOTAL (kg)			
CA50	56.1		
CA60	38.2		

Volume de concreto (C-25) = 1.32 m³
Área da forma = 27.22 m²

USO EXCLUSIVO DA COHAPAR

REV	DATA	DESCRIÇÃO	SIGLA AUT.
002	12/06/2018	EMISSÃO INICIAL	DVS/LPJ/
001	22/08/2018	CORREÇÃO NO CARIMBO A AREA TOTAL E TITULO	DVS/EAV

g:\obra\dwg\projetos 2018\1.condominios do idosa\1.centro de convivência 1\1.set_1_eq-206_r01.dwg

RESPONSÁVEL TÉCNICO: COHAPAR — ANUÊNCIA DO ENGENHEIRO DE EQUIPE/ÓRGÃO REGIONAL: COHAPAR

COHAPAR — Companhia de Habitação do Paraná

CENTRO DE CONVIVÊNCIA TI

206.59/ex2

PROJETO ESTRUTURAL
VIGAS DO PAV.SUPERIOR

PRANCHA: EST 04 04 | REVISÃO: R 01

MORAR BEM PARANÁ

ESCALA:	DATA:
S/ESCALA	12/06/2018
ARQUIVO:	
EST_TI_EQ-206.R01.dwg	
RESPONSÁVEL:	
NOME:	ASSINATURA: