

[illegible]

Technical drawing of a reinforced concrete beam (Viga) showing a longitudinal section and a cross-section (Corte A).

**Longitudinal Section:**

- Beam height:  $H = 725$
- Reinforcement bars:  $N5 \text{ } \phi 17.5$ ,  $N4 \text{ } \phi 6.3$ ,  $N3 \text{ } \phi 10$ ,  $N2 \text{ } \phi 10$ ,  $N1 \text{ } \phi 10$
- Concrete cover:  $C = 76$ ,  $C = 400$ ,  $C = 787$
- Beam length:  $340$ ,  $380$
- Reinforcement details:  $2X1 \text{ } \phi 6.3$ ,  $2 \phi 10$ ,  $3 \phi 10$ ,  $21 \phi 5$
- Supports:  $P8$ ,  $P9$ ,  $P10$
- Dimensions:  $14/40$ ,  $14/40$

**Corte A:**

- Reinforcement bars:  $2 \phi 10$ ,  $1 \phi 10$ ,  $2 \phi 10$
- Beam height:  $8$
- Reinforcement details:  $2 \phi 10$ ,  $1 \phi 10$

**Dimensions:**

- $40 \text{ } N5 \text{ } \phi 5 \text{ } C=99$

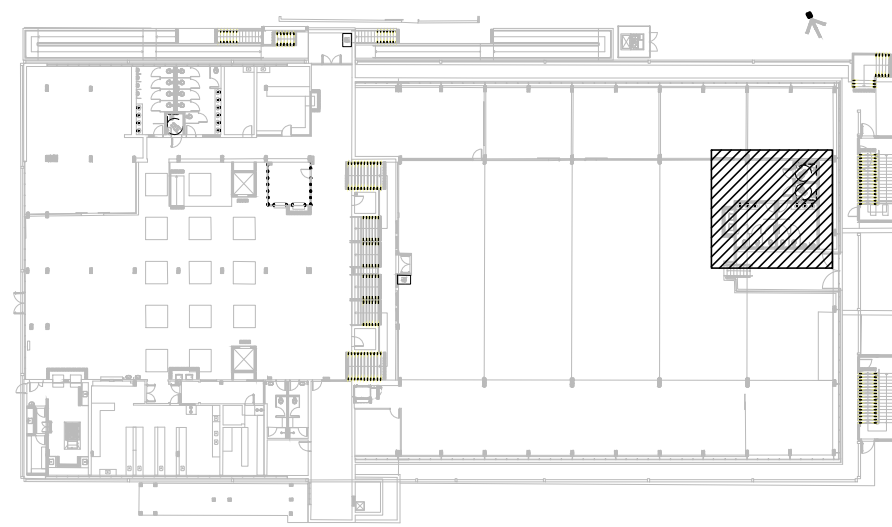
Technical drawing of a reinforced concrete slab (Losa) showing top and side views.

**Top View:**

- Overall width: 14/40
- Reinforcement bars: N4, C/17.5, 17 # 5
- Section lines: A-A, B-B
- Reinforcement details: 2 # 10, 2 # 8, 2 # 10 + 3 # 12.5, 3 # 12.5
- Dimensions: 547, 250, 680, 720, 99

**Side View:**

- Slab thickness: 20
- Reinforcement bars: N1, N2, N3, N4
- Dimensions: 547, 250, 680, 720, 99

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The technical drawing consists of two main views: a front view at the top and a side view below it.

**Front View:**

- The overall width is 140 mm.
- A horizontal dimension line indicates a distance of 21 mm from the left edge to the center of a hole labeled "N4 C=17,5".
- Below this, another dimension line shows a distance of 5 mm from the left edge to the center of a hole labeled "2 Ø 10".
- A third dimension line shows a distance of 3 mm from the left edge to the start of a section labeled "P8".
- A vertical dimension line on the right indicates a height of 5 mm for a feature labeled "B5".
- Section lines are shown as dashed lines with arrows pointing towards the top-left and bottom-right corners, labeled "A-A".

**Side View:**

- The overall depth is 240 mm.
- A horizontal dimension line indicates a distance of 245 mm from the left edge to the center of a hole labeled "3 N1 Ø 10 C=275".
- Below this, another dimension line shows a distance of 400 mm from the left edge to the center of a hole labeled "2 N3 Ø 10 C=440".
- A vertical dimension line on the right indicates a height of 20 mm for a feature labeled "R1".
- Section lines are shown as dashed lines with arrows pointing towards the top-left and bottom-right corners, labeled "A-A".

**Corte A (Cross-section A-A):**

- This view shows the cross-section of the part along line A-A.
- It features a central rectangular hole with a width of 21 mm and a height of 5 mm.
- The outer dimensions are 14 mm in width and 40 mm in height.
- There are additional dimensions of 2 mm and 10 mm indicated on the right side of the cross-section.

Technical drawing of a mechanical part, showing a side view and a cross-section A-A.

**Side View Dimensions:**

- Total length: 345
- Central cutout width: 140
- Central cutout height: 17.5
- Bar thickness: 8
- Central cutout width (internal): 9
- Central cutout height (internal): 5
- Central cutout width (external): 17.5
- Central cutout height (external): 5
- Central cutout width (total): 14
- Central cutout height (total): 17.5
- Central cutout width (total): 14
- Central cutout height (total): 17.5

**Cross-section A-A Dimensions:**

- Width: 14
- Height: 17.5

**Section Labels:**

- Section A-A
- Section B-B
- Section C-C

**Section A-A Details:**

- Section A-A: 14 N3 C/17.5
- Section A-A: 9 Ø 5
- Section A-A: 2 Ø 8
- Section A-A: 2 Ø 10
- Section A-A: 2 Ø 10
- Section A-A: 2 Ø 8
- Section A-A: 2 Ø 10
- Section A-A: 2 Ø 8
- Section A-A: 2 Ø 10

**Section B-B Details:**

- Section B-B: 14 N3 C/17.5
- Section B-B: 9 Ø 5
- Section B-B: 2 Ø 8
- Section B-B: 2 Ø 10
- Section B-B: 2 Ø 10
- Section B-B: 2 Ø 8
- Section B-B: 2 Ø 10
- Section B-B: 2 Ø 8
- Section B-B: 2 Ø 10

**Section C-C Details:**

- Section C-C: 14 N3 C/17.5
- Section C-C: 9 Ø 5
- Section C-C: 2 Ø 8
- Section C-C: 2 Ø 10
- Section C-C: 2 Ø 10
- Section C-C: 2 Ø 8
- Section C-C: 2 Ø 10
- Section C-C: 2 Ø 8
- Section C-C: 2 Ø 10

Technical drawing of a mechanical part, showing a side view and a cross-section A-A.

**Side View Dimensions:**

- Top: 14/40
- Upper Section: N3 C/17.5, 8 ø 5, 2 ø 10
- Lower Section: B3, B4, 2 ø 10
- Bottom Section: 2 N1 ø 10, C=228, 2 N2 ø 10, C=170

**Cross-section A-A Dimensions:**

- Outer Diameter: 2 ø 10
- Inner Diameter: 2 ø 10
- Height: B
- Width: N
- Length: C=99

Technical drawing of a mechanical part, likely a shaft or tube, showing dimensions and section views.

**Dimensions and Features:**

- Top right: 14/40
- Top left: N5 C/17,5 19 ø 5
- Top center: 3 ø 10
- Top right center: N5 C/17,5 21 ø 5
- Top right center: 3 ø 10
- Top right center: 2 ø 10
- Top right center: P8
- Top right center: P9
- Top right center: P10
- Top right center: 725
- Top right center: (1 ø 2øCAM)
- Top right center: 3 N1 ø 10 C=787
- Top right center: 14
- Top right center: 2x1 N4 ø 6,3 C=76
- Top right center: 34
- Top right center: 340
- Top right center: 2 N2 ø 10 C=360
- Top right center: 380
- Top right center: 2 N3 ø 10 C=400
- Top right center: 8
- Top right center: 40 N5 ø 5 C=99

**Section Views:**

- Section A-A: Shows a cross-section of the part with dimensions 2 ø 10 and 2 ø 10.
- Section B-B: Shows a cross-section of the part with dimensions 8 and 14.

AÇO	POS	BIT (mm)	QUANT	COMPRIMENTO		
				UNIT (cm)	TOTAL (cm)	
V1	CA-50	1	10	3	275	825
	CA-50	2	8	3	250	500
	CA-50	3	6,3	3	70	210
	CA-60	4	5	12	99	1188
V2	CA-50	1	10	2	228	456
	CA-50	2	10	2	170	340
	CA-60	3	5	8	99	792
V3	CA-50	1	10	2	567	1134
	CA-50	2	12,5	3	270	810
	CA-50	3	8	2	720	1440
	CA-60	4	5	33	99	3267
V4	CA-50	1	10	3	787	2361
	CA-50	2	10	2	360	720
	CA-50	3	10	2	400	800
	CA-50	4	6,3	2	76	152
	CA-60	5	5	40	99	3960
V5	CA-50	1	10	3	275	825
	CA-50	2	10	2	270	540
	CA-50	3	10	2	440	880
	CA-60	4	5	21	99	2079
V6	CA-50	1	8	2	495	990
	CA-50	2	10	2	450	900
	CA-60	3	5	22	99	2178
V7	CA-50	1	8	2	395	790
	CA-50	2	10	2	370	740
	CA-60	3	5	14	99	1386
V8	CA-50	1	8	2	230	460
	CA-50	2	10	2	410	820
	CA-50	3	8	2	280	560
	CA-50	4	8	2	410	820
	CA-50	5	8	2	325	650
	CA-60	6	5	34	99	3366
VB-1	CA-50	1	10	3	787	2361
	CA-50	2	10	2	360	720
	CA-50	3	10	2	400	800
	CA-50	4	6,3	2	76	152
	CA-60	5	5	40	99	3960
AÇO	BIT (mm)	COMPR (m)	PESO (kg)			
CA-60	5	222	35			
CA-50	6,3	5	1			
CA-50	8	62	25			
CA-50	10	152	96			
CA-50	12,5	8	15			
Peso Total		CA-60 =	35			
Peso Total		CA-50 =	130			

AÇO	BIT (mm)	COMPR (m)	PESO (kg)
CA-60	5	222	35
CA-50	6,3	5	1
CA-50	8	62	25
CA-50	10	152	96
CA-50	12,5	8	8
Peso Total	CA-60 =		35
Peso Total	CA-50 =		130



PROJ. EXECUTIVO E LEGAIS VISANDO A REGULARIZAÇÃO  
DA ETEC FERNANDO FEBELIANO DA COSTA

LOCAL / MUNICÍPIO  
RUA MONSENHOR MANOEL FRANCISCO ROSA, 433 – CENTRO  
PIRACICABA – SP

ÁREA TÉCNICA CÓDIGO DO EMPREENDIMENTO

**CONCRETO** **0121-2015**

TÍTULO

PROJETO EXECUTIVO

BLOCO 1 - BANHEIRO DA OFICINA

ARMAÇÃO DAS VIGAS BALDRAME

COLABORADORES	CREA	FUNÇÃO
RAFAEL LUCENA CARNEIRO		ESTAGIÁRIO
CAIO ALMEIDA DE OLIVEIRA		ESTAGIÁRIO

DADOS / FONTES DE REFERÊNCIA

NOME DO ARQUIVO ELETRONICO  
0121-2015\_CON-PE-1501-R01-ARV.dwg

01	CONFORME ANÁLISE DE PROJETOS Nº13/2019 - DP / CPS	JANEIRO/20	CAO
REVISÕES	DESCRIÇÃO	DATA	RUBRICA

AUTOR DO PROJETO - ESTRUTURA ADILSON DOS S. RIBEIRO JR.	UNID. PROJETOS CREA 50522458/04
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FOLHA N°  
**CON-PE-1501**  
 ESCALA NOMINAL

SUPERVISOR DE PROJETOS - ESTRUTURA UNID. PROJETOS  
TASSIANO AMANTE CERBONCINI CAU A46760-0

RESPONSÁVEL TÉCNICO PEDRO PEREIRA EVANGELISTA

DIRETORIA DE ENGENHARIA CREA 0601404025

RESPONSÁVEL TÉCNICO DIRETORIA DE ENGENHARIA  
PEDRO PEREIRA EVANGELISTA CREA 0601404025

CONFIGURAÇÃO PARA PLOTAGEM:		
COR	COR	PENA
1	7	0,10
2	7	0,20
3	7	0,30
4	7	0,40
5	7	0,50
6	7	0,60
7	7	0,70
8	8	0,80
30	7	0,20
31	7	0,10
32	7	0,30
250	250	0,15
251	251	0,15
252	252	0,15
253	253	0,15
254	254	0,15