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Technical drawing of the V304 railing system, showing a perspective view, a cross-section, and a detailed view of the railing profile.

**Perspective View:** Shows the railing system installed on a staircase. Key dimensions include a total length of 19/40, a height of 140, and a width of 100. The railing is composed of three main sections: a top section (1 N1 # 10 C=500), a middle section (1 N2 # 10 C=250), and a bottom section (1 N3 # 10 C=350). The railing is supported by a base plate (P6) and a post (P7).

**Corte A:** A cross-section view showing the railing profile (V304) and the base plate (P6). The railing has a height of 140 and a width of 100. The base plate is 100 wide and 140 high. The railing is supported by a post (P7) and a base plate (P6).

**Detail View:** A detailed view of the railing profile (V304) showing the dimensions of the railing post (P7) and the base plate (P6). The railing post has a diameter of 10 and a height of 140. The base plate has a width of 100 and a height of 140. The railing is supported by a post (P7) and a base plate (P6).

Technical drawing of a roof structure (Corte A) showing a plan view and a cross-section.

**Plan View Dimensions and Details:**

- Overall length: 19/50
- Reinforcement bars: 4 # 16, 17 C/20, 48 # 5, 2 # 6.3, 3 # 16, # 20, 1 # 8 # 16 C=440, 2 # 16 C=1050, 2 # 16 C=245, 2 # 16 C=250, 2 # 16 C=260, 2 # 16 C=270, 2 # 16 C=280, 2 # 16 C=290, 2 # 16 C=300, 2 # 16 C=310, 2 # 16 C=320, 2 # 16 C=330, 2 # 16 C=340, 2 # 16 C=350, 2 # 16 C=360, 2 # 16 C=370, 2 # 16 C=380, 2 # 16 C=390, 2 # 16 C=400, 2 # 16 C=410, 2 # 16 C=420, 2 # 16 C=430, 2 # 16 C=440, 2 # 16 C=450, 2 # 16 C=460, 2 # 16 C=470, 2 # 16 C=480, 2 # 16 C=490, 2 # 16 C=500, 2 # 16 C=510, 2 # 16 C=520, 2 # 16 C=530, 2 # 16 C=540, 2 # 16 C=550, 2 # 16 C=560, 2 # 16 C=570, 2 # 16 C=580, 2 # 16 C=590, 2 # 16 C=600, 2 # 16 C=610, 2 # 16 C=620, 2 # 16 C=630, 2 # 16 C=640, 2 # 16 C=650, 2 # 16 C=660, 2 # 16 C=670, 2 # 16 C=680, 2 # 16 C=690, 2 # 16 C=700, 2 # 16 C=710, 2 # 16 C=720, 2 # 16 C=730, 2 # 16 C=740, 2 # 16 C=750, 2 # 16 C=760, 2 # 16 C=770, 2 # 16 C=780, 2 # 16 C=790, 2 # 16 C=800, 2 # 16 C=810, 2 # 16 C=820, 2 # 16 C=830, 2 # 16 C=840, 2 # 16 C=850, 2 # 16 C=860, 2 # 16 C=870, 2 # 16 C=880, 2 # 16 C=890, 2 # 16 C=900, 2 # 16 C=910, 2 # 16 C=920, 2 # 16 C=930, 2 # 16 C=940, 2 # 16 C=950, 2 # 16 C=960, 2 # 16 C=970, 2 # 16 C=980, 2 # 16 C=990, 2 # 16 C=1000, 2 # 16 C=1010, 2 # 16 C=1020, 2 # 16 C=1030, 2 # 16 C=1040, 2 # 16 C=1050, 2 # 16 C=1060, 2 # 16 C=1070, 2 # 16 C=1080, 2 # 16 C=1090, 2 # 16 C=1100, 2 # 16 C=1110, 2 # 16 C=1120, 2 # 16 C=1130, 2 # 16 C=1140, 2 # 16 C=1150, 2 # 16 C=1160, 2 # 16 C=1170, 2 # 16 C=1180, 2 # 16 C=1190, 2 # 16 C=1200, 2 # 16 C=1210, 2 # 16 C=1220, 2 # 16 C=1230, 2 # 16 C=1240, 2 # 16 C=1250, 2 # 16 C=1260, 2 # 16 C=1270, 2 # 16 C=1280, 2 # 16 C=1290, 2 # 16 C=1300, 2 # 16 C=1310, 2 # 16 C=1320, 2 # 16 C=1330, 2 # 16 C=1340, 2 # 16 C=1350, 2 # 16 C=1360, 2 # 16 C=1370, 2 # 16 C=1380, 2 # 16 C=1390, 2 # 16 C=1400, 2 # 16 C=1410, 2 # 16 C=1420, 2 # 16 C=1430, 2 # 16 C=1440, 2 # 16 C=1450, 2 # 16 C=1460, 2 # 16 C=1470, 2 # 16 C=1480, 2 # 16 C=1490, 2 # 16 C=1500, 2 # 16 C=1510, 2 # 16 C=1520, 2 # 16 C=1530, 2 # 16 C=1540, 2 # 16 C=1550, 2 # 16 C=1560, 2 # 16 C=1570, 2 # 16 C=1580, 2 # 16 C=1590, 2 # 16 C=1600, 2 # 16 C=1610, 2 # 16 C=1620, 2 # 16 C=1630, 2 # 16 C=1640, 2 # 16 C=1650, 2 # 16 C=1660, 2 # 16 C=1670, 2 # 16 C=1680, 2 # 16 C=1690, 2 # 16 C=1700, 2 # 16 C=1710, 2 # 16 C=1720, 2 # 16 C=1730, 2 # 16 C=1740, 2 # 16 C=1750, 2 # 16 C=1760, 2 # 16 C=1770, 2 # 16 C=1780, 2 # 16 C=1790, 2 # 16 C=1800, 2 # 16 C=1810, 2 # 16 C=1820, 2 # 16 C=1830, 2 # 16 C=1840, 2 # 16 C=1850, 2 # 16 C=1860, 2 # 16 C=1870, 2 # 16 C=1880, 2 # 16 C=1890, 2 # 16 C=1900, 2 # 16 C=1910, 2 # 16 C=1920, 2 # 16 C=1930, 2 # 16 C=1940, 2 # 16 C=1950, 2 # 16 C=1960, 2 # 16 C=1970, 2 # 16 C=1980, 2 # 16 C=1990, 2 # 16 C=2000, 2 # 16 C=2010, 2 # 16 C=2020, 2 # 16 C=2030, 2 # 16 C=2040, 2 # 16 C=2050, 2 # 16 C=2060, 2 # 16 C=2070, 2 # 16 C=2080, 2 # 16 C=2090, 2 # 16 C=2100, 2 # 16 C=2110, 2 # 16 C=2120, 2 # 16 C=2130, 2 # 16 C=2140, 2 # 16 C=2150, 2 # 16 C=2160, 2 # 16 C=2170, 2 # 16 C=2180, 2 # 16 C=2190, 2 # 16 C=2200, 2 # 16 C=2210, 2 # 16 C=2220, 2 # 16 C=2230, 2 # 16 C=2240, 2 # 16 C=2250, 2 # 16 C=2260, 2 # 16 C=2270, 2 # 16 C=2280, 2 # 16 C=2290, 2 # 16 C=2300, 2 # 16 C=2310, 2 # 16 C=2320, 2 # 16 C=2330, 2 # 16 C=2340, 2 # 16 C=2350, 2 # 16 C=2360, 2 # 16 C=2370, 2 # 16 C=2380, 2 # 16 C=2390, 2 # 16 C=2400, 2 # 16 C=2410, 2 # 16 C=2420, 2 # 16 C=2430, 2 # 16 C=2440, 2 # 16 C=2450, 2 # 16 C=2460, 2 # 16 C=2470, 2 # 16 C=2480, 2 # 16 C=2490, 2 # 16 C=2500, 2 # 16 C=2510, 2 # 16 C=2520, 2 # 16 C=2530, 2 # 16 C=2540, 2 # 16 C=2550, 2 # 16 C=2560, 2 # 16 C=2570, 2 # 16 C=2580, 2 # 16 C=2590, 2 # 16 C=2600, 2 # 16 C=2610, 2 # 16 C=2620, 2 # 16 C=2630, 2 # 16 C=2640, 2 # 16 C=2650, 2 # 16 C=2660, 2 # 16 C=2670, 2 # 16 C=2680, 2 # 16 C=2690, 2 # 16 C=2700, 2 # 16 C=2710, 2 # 16 C=2720, 2 # 16 C=2730, 2 # 16 C=2740, 2 # 16 C=2750, 2 # 16 C=2760, 2 # 16 C=2770, 2 # 16 C=2780, 2 # 16 C=2790, 2 # 16 C=2800, 2 # 16 C=2810, 2 # 16 C=2820, 2 # 16 C=2830, 2 # 16 C=2840, 2 # 16 C=2850, 2 # 16 C=2860, 2 # 16 C=2870, 2 # 16 C=2880, 2 # 16 C=2890, 2 # 16 C=2900, 2 # 16 C=2910, 2 # 16 C=2920, 2 # 16 C=2930, 2 # 16 C=2940, 2 # 16 C=2950, 2 # 16 C=2960, 2 # 16 C=2970, 2 # 16 C=2980, 2 # 16 C=2990, 2 # 16 C=3000, 2 # 16 C=3010, 2 # 16 C=3020, 2 # 16 C=3030, 2 # 16 C=3040, 2 # 16 C=3050, 2 # 16 C=3060, 2 # 16 C=3070, 2 # 16 C=3080, 2 # 16 C=3090, 2 # 16 C=3100, 2 # 16 C=3110, 2 # 16 C=3120, 2 # 16 C=3130, 2 # 16 C=3140, 2 # 16 C=3150, 2 # 16 C=3160, 2 # 16 C=3170, 2 # 16 C=3180, 2 # 16 C=3190, 2 # 16 C=3200, 2 # 16 C=3210, 2 # 16 C=3220, 2 # 16 C=3230, 2 # 16 C=3240, 2 # 16 C=3250, 2 # 16 C=3260, 2 # 16 C=3270, 2 # 16 C=3280, 2 #

**VIGAS DA RAMPA**

	AÇO	POS.	BIT (mm)	QUANT	COMPRIMENTO	
					UNIT (cm)	TOTAL (cm)
<b>V304</b>	CA-50	1	12,5	4	504	2016
	CA-50	2	12,5	4	215	860
	CA-50	3	10	4	450	1800
	CA-50	4	10	2	210	420
	CA-50	5	6,3	38	130	4940
<b>V310</b>	CA-50	1	10	4	375	1500
	CA-50	2	10	4	320	1280
	CA-50	3	5	28	129	3354
<b>V301</b>	CA-50	1	10	4	485	1980
	CA-50	2	10	4	445	1780
	CA-50	3	5	2	210	420



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

TÍTULO

PROJETO EXECUTIVO

BLOCO 1 – RAMPA ACESSO SECUNDÁRIO

ARMAÇÃO DE VIGAS (2x)

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

DADOS / FONTES DE REFERÊNCIA		
NOME DO ARQUIVO ELETRÔNICO		
0121-2015_CON-PE-1508-R01-ARV.dwg		
01	CONFORME ANÁLISE DE PROJETOS N° 13/2019 - DP / CPS	JANEIRO/20
REVISÕES	DESCRIÇÃO	RUBRICA
DATA		

AUTOR DO PROJETO - ESTRUTURA		UNID. PROJETOS	
ADILSON DOS S. RIBEIRO JR.		CREA 5062245804	
SUPERVISOR DE PROJETOS - ESTRUTURA		UNID. PROJETOS	
TASSIANO AMANTE CERBONCINI		CAU 444760-0	
RESPONSÁVEL TÉCNICO		DIRETORIA DE ENGENHARIA	
PEDRO PEREIRA EVANGELISTA		CREA 0001404025	

**CON-PE-1508**

ESCALA NOMINAL

1:25 / 1:50

REVISÃO

01

DATA EMISSÃO INICIAL

**NOVEMBRO/2019**

FORMATO      ESC. PLANTAGEM

**A1-AL**      **1x1**

REVISÃO

01

NOVEMBRO/2019

FORMATO            ESC PLOTAT

A1-AL 1x1

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