



MEMÓRIA DE CÁLCULO

Obra: Pavimentação em vias públicas

Local: Rua Júlio Manoel da Silva.

Cidade: Lajinha/MG.

Objetivo: O presente memorial de cálculo tem por finalidade orientar e especificar as quantidades dos serviços que farão parte das obras de Pavimentação em vias públicas, em uma área de 2.910,00 m², a ser executado na comunidade de São Domingos na cidade de Lajinha/MG.

1. INSTALAÇÕES INICIAIS DA OBRA

1.1– IMPLANTAÇÃO DA PLACA DE OBRA

Pelo Projeto = 1 unidade.

2. OBRAS VIÁRIAS – CALÇAMENTO EM BLOQUETE, 8 CM

2.1– CONFORMAÇÃO GEOMETRICA DE PLATAFORMA

Comprimento dos trechos multiplicado pela largura dos trechos das Ruas:

- Rua Júlio Manoel da Silva:

$$\begin{aligned} &= (6,26+9,72)*6/2 + (7,74+5,77)*6/2 + (4,78+3,01)*6/2 + \\ &(5,92+4,15)*6/2 + (6,69+4,14)*6/2 + (3,99+3,19)*6/2 + \\ &(7,32+5,82)*6/2 + (7,91+6,96)*6/2 + (7,93+8,0)*6/2 + \\ &(9,38+9,56)*6/2 + (15,79+15,40)*6/2 + (14,8+14,40)*6/2 + \\ &(8,30+7,20)*6/2 + (12,15+10,83)*6/2 + (8,36+8,81)*6/2 + \\ &(12,84+12,61)*6/2 + (11,07+11,09)*6/2 + (11,01+10,52)*6/2 + \\ &(3,33+3,54)*6/2 + (5,40+4,05)*6/2 + (5,14+5,66)*6/2 + \\ &(8,62+8,12)*6/2 + (11,57+11,38)*6/2 + (9,28+10,47)*6/2 + \\ &(8,27+9,50)*6/2 + (10,23+10,64)*6/2 + (22,48+27,42)*6/2 + \end{aligned}$$



PREFEITURA DE LAJINHA

$$\begin{aligned} & (13,88+13,98)*6/2 + (18,97+18,30)*6/2 + (10,74+10,74)*6/2 + \\ & (11,03+10,18)*6/2 + (10,74+11,08)*6/2 + (17,27+17,58)*6/2 + \\ & (15,80+15,80)*6/2 + (5,31+5,44)*6/2 + (6,46+6,48)*6/2 + \\ & (3,06+4,81)*6/2 + (12,19+13,09)*6/2 + (4,06+2,75)*6/2 + \\ & (6,58+5,0)*6/2 + (25,0+27,28)*6/2 + (14,5+14,81)*6/2 + \\ & (50,0+50,0)*6/2 + (13,20+15,38)*6/2 = 2910,00 \text{ m}^2 \end{aligned}$$

TOTAL: **2.910,00 m²**

2.2- BLOCOS SEXTAVADOS 35 MPA, 8 CM ESPESSURA, 6 CM DE COLCHÃO DE AREIA.

- Rua Júlio Manoel da Silva:

$$\begin{aligned} & = (6,26+9,72)*4,76/2 + (7,74+5,77)*4,76/2 + (4,78+3,01)*4,76/2 + \\ & (5,92+4,15)*4,76/2 + (6,69+4,14)*4,76/2 + (3,99+3,19)*4,76/2 + \\ & (7,32+5,82)*4,76/2 + (7,91+6,96)*4,76/2 + (7,93+8,0)*4,76/2 + \\ & (9,38+9,56)*4,76/2 + (15,79+15,40)*4,76/2 + (14,8+14,40)*4,76/2 + \\ & (8,30+7,20)*4,76/2 + (12,15+10,83)*4,76/2 + (8,36+8,81)*4,76/2 + \\ & (12,84+12,61)*4,76/2 + (11,07+11,09)*4,76/2 + (11,01+10,52)*4,76/2 + \\ & + (3,33+3,54)*4,76/2 + (5,40+4,05)*4,76/2 + (5,14+5,66)*4,76/2 + \\ & (8,62+8,12)*4,76/2 + (11,57+11,38)*4,76/2 + (9,28+10,47)*4,76/2 + \\ & (8,27+9,50)*4,76/2 + (10,23+10,64)*4,76/2 + (22,48+27,42)*4,76/2 + \\ & + (13,88+13,98)*4,76/2 + (18,97+18,30)*4,76/2 + (10,74+10,74)*4,76/2 + \\ & + (11,03+10,18)*4,76/2 + (10,74+11,08)*4,76/2 + (17,27+17,58)*4,76/2 + \\ & + (15,80+15,80)*4,76/2 + (5,31+5,44)*4,76/2 + (6,46+6,48)*4,76/2 + \\ & + (3,06+4,81)*4,76/2 + (12,19+13,09)*4,76/2 + (4,06+2,75)*4,76/2 + \\ & + (6,58+5,0)*4,76/2 + (25,0+27,28)*4,76/2 + (14,5+14,81)*4,76/2 + \\ & (50,0+50,0)*4,76/2 + (13,20+15,38)*4,76/2 = 2308,60 \text{ m}^2 \end{aligned}$$

TOTAL: **2.308,60 m²**

3. URBANIZAÇÃO E OBRAS COMPLEMENTARES

3.1 – MEIO-FIO DE CONCRETO PRÉ MOLDADO (12x16,7x35 cm)

- Rua Júlio Manoel da Silva:

$$\begin{aligned} & = (6,26+9,72+7,74+5,77+4,78+3,01+5,92+4,15+6,69+4,14+3,99+3, \\ & 19+7,32+5,82+7,91+6,96+7,93+8,0+9,38+9,56+15,79+15,40+14,8 \\ & 0+14,40+8,30+7,20+12,15+10,83+8,36+8,81+12,84+12,61+11,07+ \\ & 11,09+11,01+10,52+3,33+3,54+5,40+4,05+5,14+5,66+8,62+8,12+ \\ & 11,57+11,38+9,28+10,47+8,27+9,50+10,23+10,64+22,48+27,42+13, \\ & 88+13,98+18,97+18,30+10,74+10,74+11,03+10,18+10,74+11,08 \end{aligned}$$



PREFEITURA DE LAJINHA

+17,27+17,58+15,80+15,80+5,31+5,44+6,46+6,48+3,06+4,81+12,19+13,09+4,06+2,75+6,58+5,0+25,0+27,28+14,5+14,81+50,0+50,0+13,20+15,38)= 970 m

TOTAL: **970 m**

OBS: Em alguns trechos já previamente demonstrados no projeto o meio-fio será rebaixado para futuramente ser executadas as rampas para acesso de deficientes, que seguirão rigorosamente a NBR 9050.

3.2 - MEIO-FIO DE CONCRETO PRÉ MOLDADO - TRAVAMENTO (12x16,7x35 cm)

(6,0+6,0) = 12,0 m

TOTAL: **12,0 m**

4. DRENAGEM

4.1 – SARJETAS (50cm x 5cm), I: 3%

- Rua Júlio Manoel da Silva:

=(6,26+9,72+7,74+5,77+4,78+3,01+5,92+4,15+6,69+4,14+3,99+3,19+7,32+5,82+7,91+6,96+7,93+8,0+9,38+9,56+15,79+15,40+14,80+14,40+8,30+7,20+12,15+10,83+8,36+8,81+12,84+12,61+11,07+11,09+11,01+10,52+3,33+3,54+5,40+4,05+5,14+5,66+8,62+8,12+11,57+11,38+9,28+10,47+8,27+9,50+10,23+10,64+22,48+27,42+13,88+13,98+18,97+18,30+10,74+10,74+11,03+10,18+10,74+11,08+17,27+17,58+15,80+15,80+5,31+5,44+6,46+6,48+3,06+4,81+12,19+13,09+4,06+2,75+6,58+5,0+25,0+27,28+14,5+14,81+50,0+50,0+13,20+15,38)= 970 m

TOTAL: **970 m**

Lajinha/MG, 24 de maio de 2018

THAÍS BOECHAT DE LIMA
ENGENHEIRA CIVIL – CREA MG 212.895/D