



PROJETOS DE INFRAESTRUTURAS VIÁRIAS E GEOTÉCNICAS



DUPLICAÇÃO DA AVENIDA SANTOS DUMONT

PROJETO DE INFRAESTRUTURA VIÁRIA
VOLUME 03 - RELATÓRIO DE VOLUMES E ELEMENTOS DE PROJETO

REL-10651-01-02-EX-03-D

Joinville, SC - Novembro de 2024.

DUPLICAÇÃO DA AVENIDA SANTOS DUMONT

Logradouro: Avenida Santos Dumont

Trecho Duplicação: Esquina c/ Rua Dom Bosco - esquina c/ Av. Rolf Wiest

Trecho Interseção: Ruas Dona Francisca, Doutor João Colin e Blumenau

Município: Joinville, SC

Extensão Duplicação: 1,334 km

PROJETO DE INFRAESTRUTURA VIÁRIA VOLUME 03 - RELATÓRIO DE VOLUMES E ELEMENTOS DE PROJETO

- Elaboração: AZIMUTE Engenharia
- Ordem de serviço: 10651 de 2021

D	Novembro/2024	Thiago P.	Adequações conforme parecer da PMJ	Vander	Thiago P.
C	Outubro/2024	Thiago P.	Adequações conforme parecer da PMJ	Vander	Thiago P.
B	Setembro/2024	Thiago P.	Adequações conforme parecer da PMJ	Vander	Thiago P.
A	Junho/2024	Glauciano	Emissão inicial	Vander	Thiago P.
Rev.	Data	Elaboração	Modificação	Verificação	Coordenação

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1.0 - APRESENTAÇÃO

A empresa AZIMUTE Engenharia, entrega nesta oportunidade o relatório volume 03 do projeto de infraestrutura viária para a **Duplicação da Avenida Santos Dumont**, no município de Joinville/SC.

O Projeto em epígrafe está dividido em 2 (duas) etapas, denominadas Etapas 02 e 03, visto que, a Etapa 01 (trecho entre as Ruas Nova Trento e Dom Bosco) está na fase de execução de obra. Dessa forma para o objeto desse relatório, a divisão ficou da seguinte forma:

- Etapa 02 - Duplicação da Avenida Santos Dumont: trecho da Rua Dom Bosco e até a esquina com a Av. Rolf Wiest (próximo ao Shopping Garten), com uma extensão aproximada de 1,334km;
- Etapa 03 - Implantação de Interseção: encontro da Avenida Santos Dumont com as Ruas Dona Francisca, Doutor João Colin e Blumenau.

O projeto conta inicialmente com o seguinte escopo:

- Levantamento topográfico;
- Estudo de tráfego;
- Estudo geológico/geotécnico;
- Estudo hidrológico;
- Planta de interferências;
- Projeto geométrico;
- Projeto de terraplenagem;
- Projeto de drenagem pluvial;
- Projeto de pavimentação;
- Projeto de sinalização;
- Projeto de contenção;
- Projeto de obras complementares;
- Memoriais e especificações;
- Quantitativos e orçamento.

Os serviços ora apresentados baseiam-se nos termos contratuais firmados, cuja principal referência é:

- Ordem de Serviço: 10651 de 2021

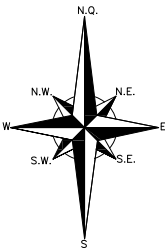
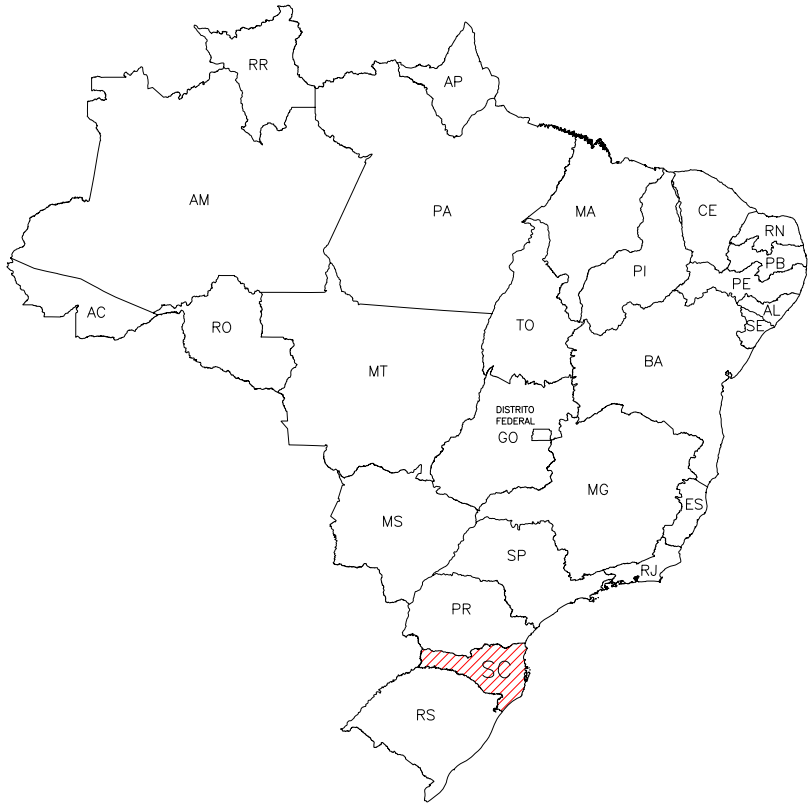
AZIMUTE Engenharia
Novembro de 2024

2.0 - IDENTIFICAÇÃO DA OBRA

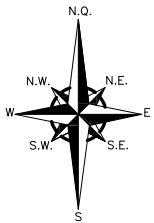
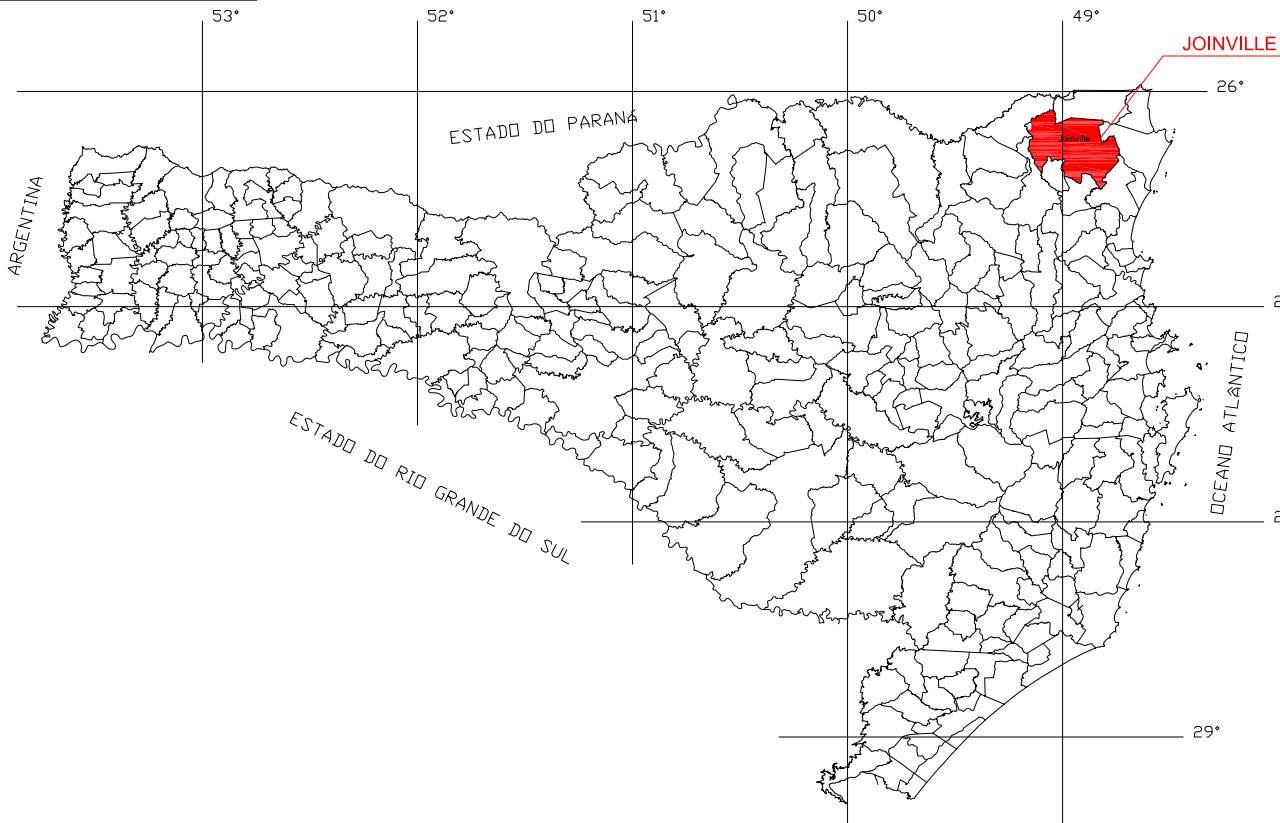
2.1 - Mapa de situação

A seguir é apresentado o mapa de situação.

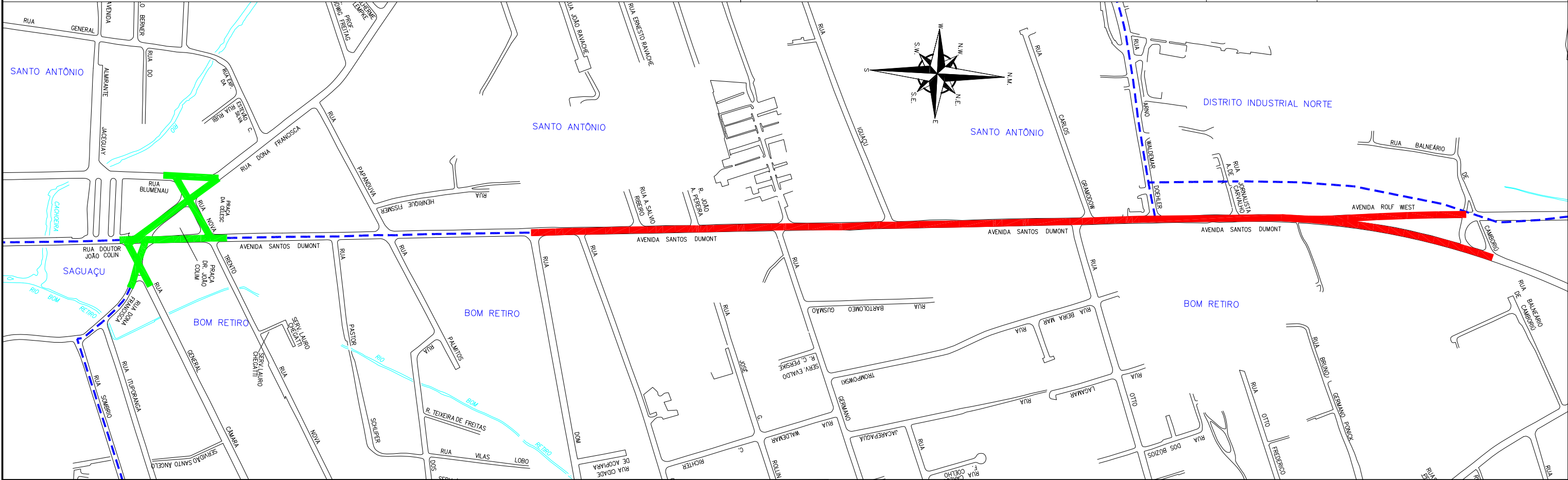
BRASIL



SANTA CATARINA



JOINVILLE




LEGENDA:

- TRECHO DO PROJETO – DUPLICAÇÃO
- TRECHO DO PROJETO – INTERSEÇÃO
- DIVISA DE BAIRROS
- HIDROGRAFIA
- RUAS

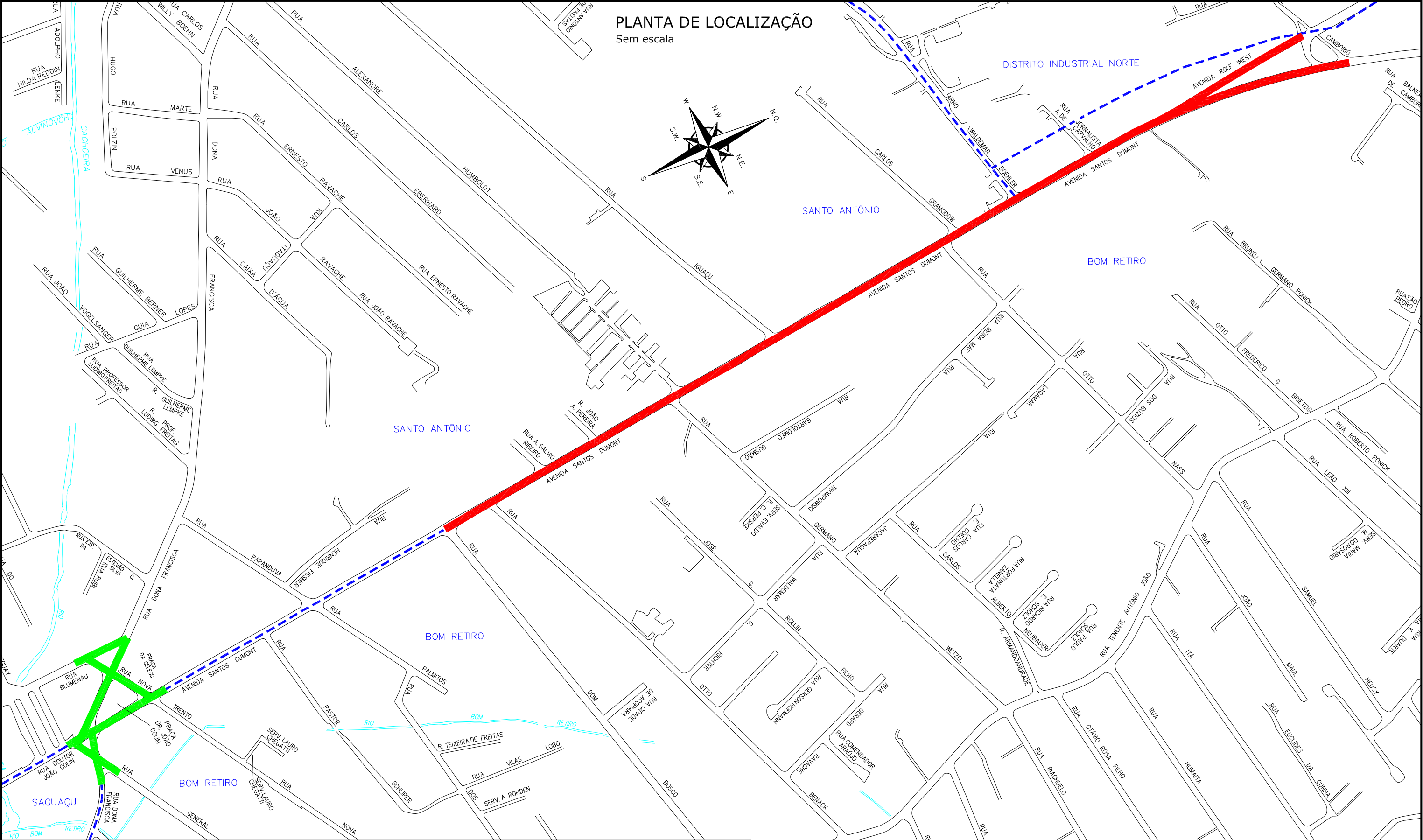
B	JUN/2024	GLAUCIA	SEPARAÇÃO DOS TRECHOS	VANDER	VANDER
A	NOV/2021	MARIANE M.	APRESENTAÇÃO INICIAL	BRUNA N.	VANDER
REV.	DATA	ELABORAÇÃO	MODIFICAÇÃO	VERIFICAÇÃO	COORDENAÇÃO

NOTAS:
1. ESTE DESENHO CONTÉM INFORMAÇÕES ESPECÍFICAS À FINALIDADE QUE SE PROPÕE E NÃO DEVE SER UTILIZADO PARA OUTROS FINS SEM CONSULTAR O RESPONSÁVEL TÉCNICO.

ELABORAÇÃO:		CONTRATANTE:	
			
FINALIDADE:			
PROJETO DE ENGENHARIA VIÁRIA DUPLICAÇÃO DA AVENIDA SANTOS DUMONT			
TRECHO: ENTRE A RUA DOM BOSCO E A AV. ROLF WEST E INTERSEÇÃO COM AS RUAS DONA FRANCISCA, DR. JOÃO COLIN E BLUMENAU – MUNICÍPIO DE JOINVILLE/SC			
CONTEÚDO:		DATA:	JUNHO/2024
MAPA DE SITUAÇÃO		ESCALA:	SEM ESCALA
CODIFICAÇÃO:	SIT-10651-01-MP-01-B	EXTENSÃO/ÁREA:	-
RESPONSÁVEL (CONTRATANTE):		PRANCHA:	01/01
		RESPONSÁVEL TÉCNICO (AZIMUTE): ENG. LUCAS BÖGE RAMUSKI CREA SC: 152.226-3	

2.2 - Planta de localização

Na sequência é apresentada a planta de localização da obra, incluindo elementos do entorno.



LEGENDA:

TRECHO DO PROJETO – DUPLICAÇÃO

TRECHO DO PROJETO – INTERSEÇÃO

DIVISA DE BAIRROS

HIDROGRAFIA

RUAS

B	JUN/2024	GLAUCIA	SEPARAÇÃO DOS TRECHOS	VANDER	VANDER
A	NOV/2021	MARIANE M.	APRESENTAÇÃO INICIAL	BRUNA N.	VANDER
REV.	DATA	ELABORAÇÃO	MODIFICAÇÃO	VERIFICAÇÃO	COORDENAÇÃO

NOTAS:
1. ESTE DESENHO CONTÉM INFORMAÇÕES ESPECÍFICAS À FINALIDADE QUE SE PROPÕE E NÃO DEVE SER UTILIZADO PARA OUTROS FINS SEM CONSULTAR O RESPONSÁVEL TÉCNICO.

ELABORAÇÃO:

azimute

ENGENHARIA

CONTRATANTE:

FINALIDADE:

PROJETO DE ENGENHARIA VIÁRIA
DUPLICAÇÃO DA AVENIDA SANTOS DUMONT

TRECHO: ENTRE A RUA DOM BOSCO E A AV. ROLF WIEST E INTERSEÇÃO COM AS RUAS DONA FRANCISCA, DR. JOÃO COLIN E BLUMENAU – MUNICÍPIO DE JOINVILLE/SC

CONTEÚDO:

PLANTA DE LOCALIZAÇÃO

DATA: JUNHO/2024

ESCALA: SEM ESCALA

CODIFICAÇÃO:

LCL-10651-01-PB-01-B

EXTENSÃO/ÁREA:

-

PRANCHAS:

01/01

RESPONSÁVEL (CONTRATANTE):

RESPONSÁVEL TÉCNICO (AZIMUTE):
ENG. LUCAS BÖGE RAMUSKI
CREA SC: 152.226-3

Projeto Infraestrutura Viária - Volume 3 (0024440262) SEI 24.0.162034-0 / pg. 8

3.0 - ALINHAMENTO VERTICAL

3.1 - Duplicação

PROJETO DE ENGENHARIA VIÁRIA
DUPLICAÇÃO DA AVENIDA SANTOS DUMONT
RELATÓRIO DE ALINHAMENTO VERTICAL - EIXO 01

Local: Avenida Santos Dumont - Trecho entre Rua Dom Bosco e Av. Rolf Wiest

Data: Junho/2024

Município: Joinville/SC

Arquivo: V-10651-01-02-CV-01-A

PIV - 01	
ESTACA PIV: 0+000,0000	COTA: 9,865 m
PIV - 02	
ESTACA PCV: 0+001.667	COTA: 9,973 m
ESTACA PIV: 0+030.070	COTA: 11,824 m
ESTACA PTV: 0+058.474	COTA: 12,399 m
PONTO BAIXO: 0+058.474	COTA: 12,399 m
i1 (%): 6,51%	i2 (%): 2,03%
DIFERENÇA(%): 4,49%	K: 12,652
DESENVOLVIMENTO: 56,807 m	RAIO: 1265,189
PIV - 03	
ESTACA PCV: 0+092.435	COTA: 13,087 m
ESTACA PIV: 0+102.435	COTA: 13,290 m
ESTACA PTV: 0+112.435	COTA: 13,310 m
PONTO BAIXO: 0+112.435	COTA: 13,310 m
i1 (%): 2,03%	i2 (%): 0,20%
DIFERENÇA(%): 1,83%	K: 10,929
DESENVOLVIMENTO: 20,000 m	RAIO: 1092,896
PIV - 04	
ESTACA PCV: 0+150	COTA: 13,385 m
ESTACA PIV: 0+160	COTA: 13,405 m
ESTACA PTV: 0+170	COTA: 13,571 m
PONTO BAIXO: 0+150	COTA: 13,385 m
i1 (%): 0,20%	i2 (%): 1,66%
DIFERENÇA(%): 1,46%	K: 13,699
DESENVOLVIMENTO: 20,000 m	RAIO: 1369,863
PIV - 05	
ESTACA PCV: 0+218.332	COTA: 14,373 m
ESTACA PIV: 0+238.332	COTA: 14,705 m
ESTACA PTV: 0+258.332	COTA: 14,579 m
PONTO BAIXO: 0+247.309	COTA: 14,613 m
i1 (%): 1,66%	i2 (%): -0,63%
DIFERENÇA(%): 2,29%	K: 17,467
DESENVOLVIMENTO: 40,000 m	RAIO: 1746,725
PIV - 06	
ESTACA PCV: 0+340.580	COTA: 14,059 m
ESTACA PIV: 0+355.580	COTA: 13,965 m
ESTACA PTV: 0+370.580	COTA: 14,131 m
PONTO BAIXO: 0+351.481	COTA: 14,025 m
i1 (%): -0,63%	i2 (%): 1,11%
DIFERENÇA(%): 1,74%	K: 17,241
DESENVOLVIMENTO: 30,000 m	RAIO: 1724,138
PIV - 07	
ESTACA PCV: 0+423.683	COTA: 14,718 m
ESTACA PIV: 0+433.683	COTA: 14,828 m
ESTACA PTV: 0+443.683	COTA: 14,848 m
PONTO BAIXO: 0+443.683	COTA: 14,848 m
i1 (%): 1,11%	i2 (%): 0,20%
DIFERENÇA(%): 0,91%	K: 21,978
DESENVOLVIMENTO: 20,000 m	RAIO: 2197,802

PROJETO DE ENGENHARIA VIÁRIA
DUPLICAÇÃO DA AVENIDA SANTOS DUMONT
RELATÓRIO DE ALINHAMENTO VERTICAL - EIXO 01

Local: Avenida Santos Dumont - Trecho entre Rua Dom Bosco e Av. Rolf Wiest

Data: Junho/2024

Município: Joinville/SC

Arquivo: V-10651-01-02-CV-01-A

PIV - 08

ESTACA PCV: 0+525	COTA: 15,011 m
ESTACA PIV: 0+530	COTA: 15,021 m
ESTACA PTV: 0+535	COTA: 14,999 m
PONTO BAIXO: 0+528.078	COTA: 15,014 m
i1 (%): 0,20%	i2 (%): -0,45%
DIFERENÇA(%): 0,65%	K: 15,385
DESENVOLVIMENTO: 10,000 m	RAIO: 1538,462

PIV - 09

ESTACA PCV: 0+555.056	COTA: 14,908 m
ESTACA PIV: 0+560.056	COTA: 14,886 m
ESTACA PTV: 0+565.056	COTA: 14,896 m
PONTO BAIXO: 0+561.978	COTA: 14,893 m
i1 (%): -0,45%	i2 (%): 0,20%
DIFERENÇA(%): 0,65%	K: 15,385
DESENVOLVIMENTO: 10,000 m	RAIO: 1538,462

PIV - 10

ESTACA PCV: 0+637.311	COTA: 15,040 m
ESTACA PIV: 0+667.311	COTA: 15,100 m
ESTACA PTV: 0+697.311	COTA: 16,900 m
PONTO BAIXO: 0+637.311	COTA: 15,040 m
i1 (%): 0,20%	i2 (%): 6,00%
DIFERENÇA(%): 5,80%	K: 10,345
DESENVOLVIMENTO: 60,000 m	RAIO: 1034,483

PIV - 11

ESTACA PCV: 0+705.896	COTA: 17,415 m
ESTACA PIV: 0+740.896	COTA: 19,515 m
ESTACA PTV: 0+775.896	COTA: 18,127 m
PONTO BAIXO: 0+748.035	COTA: 18,680 m
i1 (%): 6,00%	i2 (%): -3,97%
DIFERENÇA(%): 9,97%	K: 7,021
DESENVOLVIMENTO: 70,000 m	RAIO: 702,106

PIV - 12

ESTACA PCV: 0+790	COTA: 17,567 m
ESTACA PIV: 0+800	COTA: 17,171 m
ESTACA PTV: 0+810	COTA: 16,904 m
PONTO BAIXO: 0+810	COTA: 16,904 m
i1 (%): -3,97%	i2 (%): -2,67%
DIFERENÇA(%): 1,30%	K: 15,385
DESENVOLVIMENTO: 20,000 m	RAIO: 1538,462

PIV - 13

ESTACA PCV: 0+873.407	COTA: 15,213 m
ESTACA PIV: 0+893.407	COTA: 14,680 m
ESTACA PTV: 0+913.407	COTA: 14,601 m
PONTO BAIXO: 0+913.407	COTA: 14,601 m
i1 (%): -2,67%	i2 (%): -0,39%
DIFERENÇA(%): 2,27%	K: 17,621
DESENVOLVIMENTO: 40,000 m	RAIO: 1762,115

PROJETO DE ENGENHARIA VIÁRIA
DUPLICAÇÃO DA AVENIDA SANTOS DUMONT
RELATÓRIO DE ALINHAMENTO VERTICAL - EIXO 01

Local: Avenida Santos Dumont - Trecho entre Rua Dom Bosco e Av. Rolf Wiest

Data: Junho/2024

Município: Joinville/SC

Arquivo: V-10651-01-02-CV-01-A

PIV - 14

ESTACA PCV: 0+976.843	COTA: 14,351 m
ESTACA PIV: 0+986.843	COTA: 14,312 m
ESTACA PTV: 0+996.843	COTA: 14,190 m
PONTO BAIXO: 0+976.843	COTA: 14,351 m
i1 (%): -0,39%	i2 (%): -1,22%
DIFERENÇA(%): 0,83%	K: 24,096
DESENVOLVIMENTO: 20,000 m	RAIO: 2409,639

PIV - 15

ESTACA PCV: 1+090	COTA: 13,048 m
ESTACA PIV: 1+100	COTA: 12,926 m
ESTACA PTV: 1+110	COTA: 12,850 m
PONTO BAIXO: 1+110	COTA: 12,850 m
i1 (%): -1,22%	i2 (%): -0,76%
DIFERENÇA(%): 0,46%	K: 43,478
DESENVOLVIMENTO: 20,000 m	RAIO: 4347,826

PIV - 16

ESTACA PCV: 1+260.184	COTA: 11,776 m
ESTACA PIV: 1+265.184	COTA: 11,742 m
ESTACA PTV: 1+270.184	COTA: 11,687 m
PONTO BAIXO: 1+260.184	COTA: 11,776 m
i1 (%): -0,67%	i2 (%): -1,11%
DIFERENÇA(%): 0,44%	K: 22,727
DESENVOLVIMENTO: 10,000 m	RAIO: 2272,727

PIV - 17

ESTACA PCV: 1+319.416	COTA: 11,142 m
ESTACA PIV: 1+324.416	COTA: 11,087 m
ESTACA PTV: 1+329.416	COTA: 11,077 m
PONTO BAIXO: 1+329.416	COTA: 11,077 m
i1 (%): -1,11%	i2 (%): -0,20%
DIFERENÇA(%): 0,91%	K: 10,989
DESENVOLVIMENTO: 10,000 m	RAIO: 1098,901

PIV - 18

ESTACA PIV: 1+334.42	COTA: 11,067 m
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PROJETO DE ENGENHARIA VIÁRIA
DUPLICAÇÃO DA AVENIDA SANTOS DUMONT
RELATÓRIO DE ALINHAMENTO VERTICAL - EIXO 02

Local: Avenida Santos Dumont - Trecho entre Rua Dom Bosco e Av. Rolf Wiest

Data: Junho/2024

Município: Joinville/SC

Arquivo: V-10651-01-02-CV-01-A

PIV - 01	
ESTACA PIV: 0+000,0000	COTA: 14,762 m
PIV - 02	
ESTACA PCV: 0+034.983	COTA: 14,458 m
ESTACA PIV: 0+044.983	COTA: 14,371 m
ESTACA PTV: 0+054.983	COTA: 14,771 m
PONTO BAIXO: 0+038.554	COTA: 14,442 m
i1 (%): -0,87%	i2 (%): 4,00%
DIFERENÇA(%): 4,87%	K: 4,107
DESENVOLVIMENTO: 20,000 m	RAIO: 410,678
PIV - 03	
ESTACA PIV: 0+56.84	COTA: 15,053 m

PROJETO DE ENGENHARIA VIÁRIA
DUPLICAÇÃO DA AVENIDA SANTOS DUMONT
RELATÓRIO DE ALINHAMENTO VERTICAL - EIXO 03

Local: Avenida Santos Dumont - Trecho entre Rua Dom Bosco e Av. Rolf Wiest

Data: Junho/2024

Município: Joinville/SC

Arquivo: V-10651-01-02-CV-01-A

PIV - 01	
ESTACA PIV: 0+000,0000	COTA: 11,463 m
PIV - 02	
ESTACA PCV: 0+020.458	COTA: 11,240 m
ESTACA PIV: 0+030.458	COTA: 11,095 m
ESTACA PTV: 0+040.458	COTA: 10,395 m
PONTO BAIXO: 0+020.458	COTA: 11,240 m
i1 (%): -1,45%	i2 (%): -7,00%
DIFERENÇA(%): 5,55%	K: 3,604
DESENVOLVIMENTO: 20,000 m	RAIO: 360,360
PIV - 03	
ESTACA PCV: 0+046.441	COTA: 9,977 m
ESTACA PIV: 0+051.441	COTA: 9,627 m
ESTACA PTV: 0+056.441	COTA: 9,830 m
PONTO BAIXO: 0+052.760	COTA: 9,755 m
i1 (%): -7,00%	i2 (%): 4,08%
DIFERENÇA(%): 11,08%	K: 0,903
DESENVOLVIMENTO: 10,000 m	RAIO: 90,253
PIV - 04	
ESTACA PCV: 0+088.541	COTA: 11,139 m
ESTACA PIV: 0+103.541	COTA: 11,751 m
ESTACA PTV: 0+128.541	COTA: 11,841 m
PONTO BAIXO: 0+128.541	COTA: 11,841 m
i1 (%): 4,08%	i2 (%): 0,36%
DIFERENÇA(%): 3,72%	K: 10,753
DESENVOLVIMENTO: 40,000 m	RAIO: 1075,269
PIV - 05	
ESTACA PCV: 0+144.589	COTA: 11,898 m
ESTACA PIV: 0+159.589	COTA: 11,952 m
ESTACA PTV: 0+174.589	COTA: 12,162 m
PONTO BAIXO: 0+144.589	COTA: 11,898 m
i1 (%): 0,36%	i2 (%): 1,40%
DIFERENÇA(%): 1,04%	K: 28,846
DESENVOLVIMENTO: 30,000 m	RAIO: 2884,615
PIV - 06	
ESTACA PIV: 0+183.43	COTA: 12,286 m

3.2 - Interseção

PROJETO DE ENGENHARIA VIÁRIA
DUPLICAÇÃO DA AVENIDA SANTOS DUMONT
RELATÓRIO DE ALINHAMENTO VERTICAL - EIXO 04

Local: Avenida Santos Dumont - Interseção com as ruas Dona Francisca, Dr. João Colin e Blumenau

Data: Junho/2024

Município: Joinville/SC

Arquivo: V-10651-01-03-CV-01-A

PIV - 01	
ESTACA PIV: 0+000,0000	COTA: 5,212 m
PIV - 02	
ESTACA PCV: 0+002	COTA: 5,208 m
ESTACA PIV: 0+012	COTA: 5,188 m
ESTACA PTV: 0+022	COTA: 5,220 m
PONTO BAIXO: 0+009.763	COTA: 5,201 m
i1 (%): -0,20%	i2 (%): 0,32%
DIFERENÇA(%): 0,52%	K: 38,462
DESENVOLVIMENTO: 20,000 m	RAIO: 3846,154
PIV - 03	
ESTACA PCV: 0+118.854	COTA: 5,525 m
ESTACA PIV: 0+128.854	COTA: 5,557 m
ESTACA PTV: 0+138.854	COTA: 5,486 m
PONTO BAIXO: 0+125.011	COTA: 5,535 m
i1 (%): 0,32%	i2 (%): -0,71%
DIFERENÇA(%): 1,02%	K: 19,608
DESENVOLVIMENTO: 20,000 m	RAIO: 1960,784
PIV - 04	
ESTACA PCV: 0+149.156	COTA: 5,413 m
ESTACA PIV: 0+159.156	COTA: 5,342 m
ESTACA PTV: 0+169.156	COTA: 5,322 m
PONTO BAIXO: 0+169.156	COTA: 5,322 m
i1 (%): -0,71%	i2 (%): -0,20%
DIFERENÇA(%): 0,51%	K: 39,216
DESENVOLVIMENTO: 20,000 m	RAIO: 3921,569
PIV - 05	
ESTACA PIV: 0+222.74	COTA: 5,212 m

PROJETO DE ENGENHARIA VIÁRIA
DUPLICAÇÃO DA AVENIDA SANTOS DUMONT
RELATÓRIO DE ALINHAMENTO VERTICAL - EIXO 06

Local: Avenida Santos Dumont - Interseção com as ruas Dona Francisca, Dr. João Colin e Blumenau
Município: Joinville/SC
Data: Junho/2024
Arquivo: V-10651-01-03-CV-01-A

PIV - 01		
ESTACA PIV: 0+000,0000		COTA: 5,172 m
PIV - 02		
ESTACA PCV: 0+010		COTA: 5,288 m
ESTACA PIV: 0+020		COTA: 5,405 m
ESTACA PTV: 0+030		COTA: 5,279 m
PONTO BAIXO: 0+019.626		COTA: 5,344 m
i1 (%): 1,16%		i2 (%): -1,26%
DIFERENÇA(%): 2,42%		K: 8,264
DESENVOLVIMENTO: 20,000 m		RAIO: 826,446
PIV - 03		
ESTACA PIV: 0+036.32		COTA: 5,200 m

PROJETO DE ENGENHARIA VIÁRIA
DUPLICAÇÃO DA AVENIDA SANTOS DUMONT
RELATÓRIO DE ALINHAMENTO VERTICAL - EIXO 07

Local: Avenida Santos Dumont - Interseção com as ruas Dona Francisca, Dr. João Colin e Blumenau

Data: Junho/2024

Município: Joinville/SC

Arquivo: V-10651-01-03-CV-01-A

PIV - 01	
ESTACA PIV: 0+000,0000	COTA: 5,000 m
PIV - 02	
ESTACA PCV: 0+019.991	COTA: 5,040 m
ESTACA PIV: 0+029.991	COTA: 5,060 m
ESTACA PTV: 0+039.991	COTA: 5,151 m
PONTO BAIXO: 0+019.991	COTA: 5,040 m
i1 (%): 0,20%	i2 (%): 0,91%
DIFERENÇA(%): 0,71%	K: 28,169
DESENVOLVIMENTO: 20,000 m	RAIO: 2816,901
PIV - 03	
ESTACA PIV: 0+062.49	COTA: 5,355 m

PROJETO DE ENGENHARIA VIÁRIA
DUPLICAÇÃO DA AVENIDA SANTOS DUMONT
RELATÓRIO DE ALINHAMENTO VERTICAL - EIXO 08

Local: Avenida Santos Dumont - Interseção com as ruas Dona Francisca, Dr. João Colin e Blumenau

Data: Junho/2024

Município: Joinville/SC

Arquivo: V-10651-01-03-CV-01-A

PIV - 01	
ESTACA PIV: 0+000,0000	COTA: 5,761 m
PIV - 02	
ESTACA PCV: 0+035	COTA: 5,443 m
ESTACA PIV: 0+040	COTA: 5,398 m
ESTACA PTV: 0+045	COTA: 5,376 m
PONTO BAIXO: 0+045	COTA: 5,376 m
i1 (%): -0,91%	i2 (%): -0,44%
DIFERENÇA(%): 0,47%	K: 21,277
DESENVOLVIMENTO: 10,000 m	RAIO: 2127,660
PIV - 03	
ESTACA PCV: 0+070	COTA: 5,267 m
ESTACA PIV: 0+080	COTA: 5,223 m
ESTACA PTV: 0+090	COTA: 5,280 m
PONTO BAIXO: 0+078.703	COTA: 5,248 m
i1 (%): -0,44%	i2 (%): 0,57%
DIFERENÇA(%): 1,00%	K: 20,000
DESENVOLVIMENTO: 20,000 m	RAIO: 2000,000
PIV - 04	
ESTACA PCV: 0+094.951	COTA: 5,308 m
ESTACA PIV: 0+104.951	COTA: 5,365 m
ESTACA PTV: 0+114.951	COTA: 5,385 m
PONTO BAIXO: 0+114.951	COTA: 5,385 m
i1 (%): 0,57%	i2 (%): 0,20%
DIFERENÇA(%): 0,36%	K: 55,556
DESENVOLVIMENTO: 20,000 m	RAIO: 5555,556
PIV - 05	
ESTACA PIV: 0+127.37	COTA: 5,410 m

PROJETO DE ENGENHARIA VIÁRIA
DUPLICAÇÃO DA AVENIDA SANTOS DUMONT
RELATÓRIO DE ALINHAMENTO VERTICAL - EIXO 09

Local: Avenida Santos Dumont - Interseção com as ruas Dona Francisca, Dr. João Colin e Blumenau
Município: Joinville/SC
Data: Junho/2024
Arquivo: V-10651-01-03-CV-01-A

PIV - 01		
ESTACA PIV: 0+000,0000		COTA: 5,281 m
PIV - 02		
ESTACA PCV: 0+000		COTA: 5,281 m
ESTACA PIV: 0+010		COTA: 5,295 m
ESTACA PTV: 0+020		COTA: 5,209 m
PONTO BAIXO: 0+002.770		COTA: 5,283 m
i1 (%): 0,14%		i2 (%): -0,86%
DIFERENÇA(%): 1,00%		K: 20,000
DESENVOLVIMENTO: 20,000 m		RAIO: 2000,000
PIV - 03		
ESTACA PIV: 0+043.45		COTA: 5,008 m

PROJETO DE ENGENHARIA VIÁRIA
DUPLICAÇÃO DA AVENIDA SANTOS DUMONT
RELATÓRIO DE ALINHAMENTO VERTICAL - EIXO 10

Local: Avenida Santos Dumont - Interseção com as ruas Dona Francisca, Dr. João Colin e Blumenau

Data: Junho/2024

Município: Joinville/SC

Arquivo: V-10651-01-03-CV-01-A

PIV - 01	
ESTACA PIV: 0+000,0000	COTA: 5,283 m
PIV - 02	
ESTACA PCV: 0+011.125	COTA: 5,310 m
ESTACA PIV: 0+016.125	COTA: 5,321 m
ESTACA PTV: 0+021.125	COTA: 5,266 m
PONTO BAIXO: 0+012.876	COTA: 5,312 m
i1 (%): 0,24%	i2 (%): -1,11%
DIFERENÇA(%): 1,35%	K: 7,407
DESENVOLVIMENTO: 10,000 m	RAIO: 740,741
PIV - 03	
ESTACA PCV: 0+037.709	COTA: 5,081 m
ESTACA PIV: 0+042.709	COTA: 5,025 m
ESTACA PTV: 0+047.709	COTA: 5,018 m
PONTO BAIXO: 0+047.709	COTA: 5,018 m
i1 (%): -1,11%	i2 (%): -0,14%
DIFERENÇA(%): 0,97%	K: 10,309
DESENVOLVIMENTO: 10,000 m	RAIO: 1030,928
PIV - 04	
ESTACA PIV: 0+078.05	COTA: 4,974 m

4.0 - ALINHAMENTO HORIZONTAL

4.1 - Considerações

As tabelas do alinhamento horizontal são apresentadas na planta baixa do projeto geométrico.

5.0 - NOTAS DE SERVIÇO

5.1 - Duplicação

PROJETO DE ENGENHARIA VIÁRIA
DUPLICAÇÃO DA AVENIDA SANTOS DUMONT
NOTA DE SERVIÇO - EIXO 01

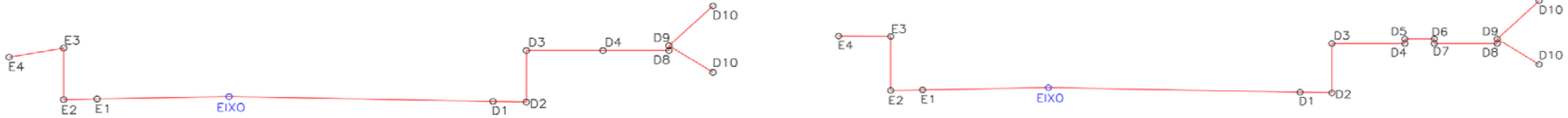
Local: Avenida Santos Dumont - Trecho entre Rua Dom Bosco e Av. Rolf Wiest

Município: Joinville/SC

Data: Junho/2024

Arquivo: RCV-10651-01-02-NS-01-A

Desenho Esquemático:



PONTOS NOTÁVEIS	E4	E3	E2	E1	EIXO	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10
Estaca: 0+000															
Dist. eixo (m)	-5,000	-3,759	-3,759	-3,000	0,000	6,000	6,759	6,759	8,500				10,000	10,000	11,149
Cota (m)	9,955	9,955	8,540	8,555	8,615	8,495	8,480	9,775	9,775				9,775	9,895	9,129
E	714.643,4121	714.644,4710	714.644,4710	714.645,1190	714.647,6795	714.652,8004	714.653,4483	714.653,4483	714.654,9341				714.656,2144	714.656,2144	714.657,1954
N	7.092.896,3905	7.092.897,0370	7.092.897,0370	7.092.897,4327	7.092.898,9960	7.092.902,1227	7.092.902,5183	7.092.902,5183	7.092.903,4255				7.092.904,2072	7.092.904,2072	7.092.904,8062
Estaca: 0+004															
Dist. eixo (m)	-5,000	-3,759	-3,759	-3,000	0,000	6,000	6,759	6,759	8,500				10,000	10,000	11,642
Cota (m)	10,190	10,190	8,775	8,790	8,850	8,730	8,715	10,010	10,010				10,010	10,130	9,036
E	714.641,5167	714.642,5756	714.642,5756	714.643,2237	714.645,7841	714.650,9050	714.651,5529	714.651,5529	714.653,0388				714.654,3190	714.654,3190	714.655,7204
N	7.092.899,4947	7.092.900,1413	7.092.900,1413	7.092.900,5370	7.092.902,1003	7.092.905,2270	7.092.905,6226	7.092.905,6226	7.092.906,5298				7.092.907,3115	7.092.907,3115	7.092.908,1671
Estaca: 0+010															
Dist. eixo (m)	-9,347	-3,759	-3,759	-3,000	0,000	6,000	6,759	6,759	8,500				10,000	10,000	11,137
Cota (m)	10,526	10,573	9,164	9,179	9,239	9,119	9,104	10,399	10,399				10,399	10,519	9,761
E	714.634,3072	714.639,3713	714.639,3713	714.640,0594	714.642,7780	714.648,2154	714.648,9033	714.648,9033	714.650,4809				714.651,8403	714.651,8403	714.652,8705
N	7.092.903,7525	7.092.906,1151	7.092.906,1151	7.092.906,4361	7.092.907,7045	7.092.910,2413	7.092.910,5622	7.092.910,5622	7.092.911,2983				7.092.911,9324	7.092.911,9324	7.092.912,4131
Estaca: 0+017															
Dist. eixo (m)	-6,796	-3,759	-3,759	-3,000	0,000	6,000	6,759	6,759	8,500				10,000	10,000	10,440
Cota (m)	10,717	10,933	9,565	9,580	9,640	9,520	9,504	10,799	10,800				10,800	10,920	10,626
E	714.633,6847	714.636,5760	714.636,5760	714.637,2990	714.640,1557	714.645,8691	714.646,5919	714.646,5919	714.648,2497				714.649,6780	714.649,6780	714.650,0972
N	7.092.912,3220	7.092.913,2493	7.092.913,2493	7.092.913,4811	7.092.914,3973	7.092.916,2295	7.092.916,4614	7.092.916,4614	7.092.916,9930				7.092.917,4511	7.092.917,4511	7.092.917,5855
Estaca: 0+020															
Dist. eixo (m)	-6,119	-3,759	-3,759	-3,000	0,000	6,000	6,759	6,759	8,500				10,000	10,000	10,036
Cota (m)	10,774	11,048	9,710	9,725	9,785	9,665	9,650	10,945	10,945				10,945	11,065	11,041
E	714.633,4531	714.635,7327	714.635,7327	714.636,4663	714.639,3646	714.645,1613	714.645,8947	714.645,8947	714.647,5766				714.649,0257	714.649,0257	714.649,0600
N	7.092.915,5108	7.092.916,1198	7.092.916,1198	7.092.916,3159	7.092.917,0903	7.092.918,6391	7.092.918,8350	7.092.918,8350	7.092.919,2844				7.092.919,6716	7.092.919,6716	7.092.919,6807
Estaca: 0+030															
Dist. eixo (m)	-5,005	-3,759	-3,759	-3,000	0,000	6,000	6,759	6,759	8,500				10,000	10,000	10,352
Cota (m)	11,025	11,396	10,177	10,192	10,252	10,132	10,117	11,412	11,412				11,412	11,532	11,884
E	714.632,6548	714.633,8963	714.633,8963	714.634,6528	714.637,6418	714.643,6198	714.644,3761	714.644,3761	714.646,1107				714.647,6052	714.647,6052	714.647,9561
N	7.092.926,4995	7.092.926,6061	7.092.926,6061	7.092.926,6711	7.092.926,9277	7.092.927,4410	7.092.927,5059	7.092.927,5059	7.092.927,6549				7.092.927,7832	7.092.927,7832	7.092.927,8133
Estaca: 0+031															
Dist. eixo (m)	-5,000	-3,759	-3,759	-3,000	0,000	6,000	6,759	6,759	8,500				10,000	10,000	10,366
Cota (m)	11,043	11,422	10,209	10,224	10,284	10,164	10,149	11,444	11,444				11,444	11,564	11,930
E	714.632,5958	714.633,8332	714.633,8332	714.634,5905	714.637,5827	714.643,5669	714.644,3240	714.644,3240	714.646,0603				714.647,5564	714.647,5564	714.647,9216
N	7.092.927,3118	7.092.927,4017	7.092.927,4017	7.092.927,4567	7.092.927,6741	7.092.928,1088	7.092.928,1638	7.092.928,1638	7.092.928,2899				7.092.928,3986	7.092.928,3986	7.092.928,4251
Estaca: 0+040															
Dist. eixo (m)	-5,000	-3,759	-3,759	-3,000	0,000	6,000	6,759	6,759	8,500				10,000	10,000	10,460
Cota (m)	11,254	11,728	10,565	10,580	10,640	10,520	10,505	11,800	11,800				11,800	11,920	12,380
E	714.631,9255	714.633,1630	714.633,1630	714.633,9203	714.636,9124	714.642,8966	714.643,6537	714.643,6537	714.645,3901				714.646,8861	714.646,8861	714.647,3451
N	7.092.936,5388	7.092.936,6287	7.092.936,6287	7.092.936,6837	7.092.936,9011	7.092.937,3358	7.092.937,3908	7.092.937,3908	7.092.937,5169				7.092.937,6256	7.092.937,6256	7.092.937,6589

PROJETO DE ENGENHARIA VIÁRIA
DUPLICAÇÃO DA AVENIDA SANTOS DUMONT
NOTA DE SERVIÇO - EIXO 01

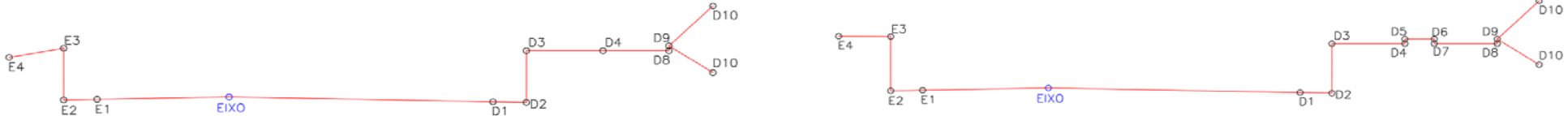
Local: Avenida Santos Dumont - Trecho entre Rua Dom Bosco e Av. Rolf Wiest

Município: Joinville/SC

Data: Junho/2024

Arquivo: RCV-10651-01-02-NS-01-A

Desenho Esquemático:



PONTOS NOTÁVEIS	E4	E3	E2	E1	EIXO	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10
Estaca: 0+050															
Dist. eixo (m)	-5,000	-3,759	-3,759	-3,000	0,000	6,000	6,759	6,759	8,500				10,000	10,000	10,745
Cota (m)	11,471	12,005	10,874	10,889	10,949	10,829	10,814	12,109	12,109				12,109	12,229	11,733
E	714.631,2010	714.632,4384	714.632,4384	714.633,1958	714.636,1879	714.642,1721	714.642,9292	714.642,9292	714.644,6655				714.646,1616	714.646,1616	714.646,9043
N	7.092.946,5125	7.092.946,6024	7.092.946,6024	7.092.946,6574	7.092.946,8748	7.092.947,3095	7.092.947,3645	7.092.947,3645	7.092.947,4906				7.092.947,5993	7.092.947,5993	7.092.947,6532
Estaca: 0+060															
Dist. eixo (m)	-5,000	-3,759	-3,759	-3,000	0,000	6,000	6,759	6,759	8,500				10,000	10,000	11,056
Cota (m)	11,708	12,238	11,105	11,120	11,180	11,060	11,045	12,340	12,340				12,340	12,460	11,756
E	714.630,4765	714.631,7139	714.631,7139	714.632,4712	714.635,4634	714.641,4476	714.642,2047	714.642,2047	714.643,9410				714.645,4371	714.645,4371	714.646,4902
N	7.092.956,4862	7.092.956,5761	7.092.956,5761	7.092.956,6311	7.092.956,8485	7.092.957,2832	7.092.957,3382	7.092.957,3382	7.092.957,4643				7.092.957,5730	7.092.957,5730	7.092.957,6495
Estaca: 0+070															
Dist. eixo (m)	-6,900	-5,000	-3,759	-3,000	0,000	6,000									
Cota (m)	12,023	12,023	11,308	11,323	11,383	11,263									
E	714.627,8570	714.629,7520	714.630,9896	714.631,7467	714.634,7388	714.640,7231									
N	7.092.966,3223	7.092.966,4600	7.092.966,5499	7.092.966,6049	7.092.966,8222	7.092.967,2569									
Estaca: 0+080															
Dist. eixo (m)	-6,900	-5,000	-3,759	-3,000	0,000	6,000									
Cota (m)	12,338	12,338	11,510	11,525	11,585	11,465									
E	714.627,1324	714.629,0275	714.630,2651	714.631,0222	714.634,0143	714.639,9985									
N	7.092.976,2960	7.092.976,4337	7.092.976,5236	7.092.976,5786	7.092.976,7959	7.092.977,2306									
Estaca: 0+090															
Dist. eixo (m)	-5,000	-3,759	-3,759	-3,000	0,000	6,000	6,759	6,759	8,500				10,000	10,000	10,090
Cota (m)	12,481	12,904	11,713	11,728	11,788	11,668	11,653	12,948	12,948				12,948	13,068	13,158
E	714.628,3029	714.629,5404	714.629,5404	714.630,2977	714.633,2898	714.639,2740	714.640,0311	714.640,0311	714.641,7675				714.643,2635	714.643,2635	714.643,3528
N	7.092.986,4074	7.092.986,4973	7.092.986,4973	7.092.986,5523	7.092.986,7697	7.092.987,2044	7.092.987,2594	7.092.987,2594	7.092.987,3855				7.092.987,4942	7.092.987,4942	7.092.987,5007
Estaca: 0+100															
Dist. eixo (m)	-5,000	-3,759	-3,759	-3,000	0,000	6,000	6,759	6,759	8,500	8,500	9,200	9,200	10,700	10,700	11,069
Cota (m)	12,732	13,106	11,890	11,905	11,965	11,845	11,829	13,124	13,125	13,245	13,245	13,125	13,125	13,245	13,614
E	714.627,5784	714.628,8158	714.628,8158	714.629,5732	714.632,5653	714.638,5495	714.639,3066	714.639,3066	714.641,0429	714.641,0429	714.641,7409	714.641,7409	714.643,2372	714.643,2372	714.643,6052
N	7.092.996,3811	7.092.996,4710	7.092.996,4710	7.092.996,5260	7.092.996,7434	7.092.997,1781	7.092.997,2331	7.092.997,2331	7.092.997,3592	7.092.997,3592	7.092.997,4099	7.092.997,4099	7.092.997,5186	7.092.997,5186	7.092.997,5453
Estaca: 0+110															
Dist. eixo (m)	-5,000	-3,759	-3,759	-3,000	0,000	6,000	6,759	6,759	8,500	8,500	9,200	9,200	10,700	10,700	10,956
Cota (m)	12,961	13,243	11,977	11,992	12,052	11,932	11,917	13,212	13,212	13,332	13,332	13,212	13,212	13,332	13,162
E	714.626,8539	714.628,0913	714.628,0913	714.628,8486	714.631,8408	714.637,8250	714.638,5821	714.638,5821	714.640,3184	714.640,3184	714.641,0164	714.641,0164	714.642,5126	714.642,5126	714.642,7677
N	7.093.006,3548	7.093.006,4447	7.093.006,4447	7.093.006,4997	7.093.006,7171	7.093.007,1518	7.093.007,2068	7.093.007,2068	7.093.007,3329	7.093.007,3329	7.093.007,3836	7.093.007,3836	7.093.007,4923	7.093.007,4923	7.093.007,5109
Estaca: 0+120															
Dist. eixo (m)	-5,000	-3,759	-3,759	-3,000	0,000	6,000	6,759	6,759	8,500	8,500	9,200	9,200	10,700	10,700	11,331
Cota (m)	13,051	13,289	12,000	12,015	12,075	11,955	11,940	13,235	13,235	13,355	13,355	13,235	13,235	13,355	12,935
E	714.626,1294	714.627,3668	714.627,3668	714.628,1241	714.631,1162	714.637,1005	714.637,8576	714.637,8576	714.639,5939	714.639,5939	714.640,2919	714.640,2919	714.641,7881	714.641,7881	714.642,4174
N	7.093.016,3285	7.093.016,4184	7.093.016,4184	7.093.016,4735	7.093.016,6908	7.093.017,1255	7.093.017,1805	7.093.017,1805	7.093.017,3066	7.093.017,3066	7.093.017,3574	7.093.017,3574	7.093.017,4660	7.093.017,4660	7.093.017,5118

PROJETO DE ENGENHARIA VIÁRIA
DUPLICAÇÃO DA AVENIDA SANTOS DUMONT
NOTA DE SERVIÇO - EIXO 01

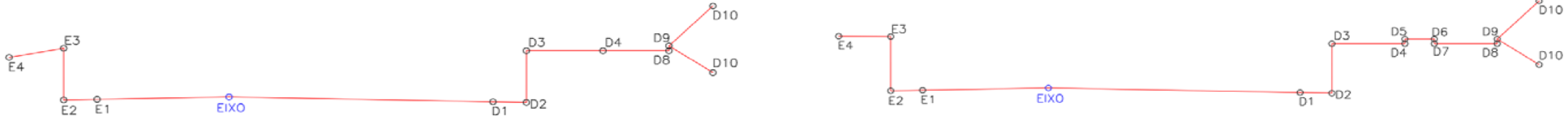
Local: Avenida Santos Dumont - Trecho entre Rua Dom Bosco e Av. Rolf Wiest

Município: Joinville/SC

Data: Junho/2024

Arquivo: RCV-10651-01-02-NS-01-A

Desenho Esquemático:



PONTOS NOTÁVEIS	E4	E3	E2	E1	EIXO	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10
Estaca: 0+130															
Dist. eixo (m)	-5,000	-3,759	-3,759	-3,000	0,000	6,000	6,759	6,759	8,500	8,500	9,200	9,200	10,700	10,700	11,440
Cota (m)	13,191	13,351	12,020	12,035	12,095	11,975	11,960	13,255	13,255	13,375	13,375	13,255	13,255	13,375	12,882
E	714.625,4049	714.626,6423	714.626,6423	714.627,3996	714.630,3917	714.636,3760	714.637,1331	714.637,1331	714.638,8694	714.638,8694	714.639,5673	714.639,5673	714.641,0636	714.641,0636	714.641,8017
N	7.093.026,3023	7.093.026,3922	7.093.026,3922	7.093.026,4472	7.093.026,6645	7.093.027,0992	7.093.027,1542	7.093.027,1542	7.093.027,2804	7.093.027,2804	7.093.027,3311	7.093.027,3311	7.093.027,4398	7.093.027,4398	7.093.027,4934
Estaca: 0+140															
Dist. eixo (m)	-5,000	-3,759	-3,759	-3,000	0,000	6,000	6,759	6,759	8,500	8,500	9,200	9,200	10,700	10,700	11,362
Cota (m)	13,364	13,423	12,040	12,055	12,115	11,995	11,980	13,275	13,275	13,395	13,395	13,275	13,275	13,395	12,954
E	714.624,6803	714.625,9178	714.625,9178	714.626,6751	714.629,6672	714.635,6514	714.636,4085	714.636,4085	714.638,1449	714.638,1449	714.638,8428	714.638,8428	714.640,3391	714.640,3391	714.640,9992
N	7.093.036,2760	7.093.036,3659	7.093.036,3659	7.093.036,4209	7.093.036,6382	7.093.037,0730	7.093.037,1280	7.093.037,1280	7.093.037,2541	7.093.037,2541	7.093.037,3048	7.093.037,3048	7.093.037,4135	7.093.037,4135	7.093.037,4614
Estaca: 0+150															
Dist. eixo (m)	-5,000	-3,759	-3,759	-3,000	0,000	6,000	6,759	6,759	8,500	8,500	9,200	9,200	10,700	10,700	11,342
Cota (m)	13,494	13,482	12,060	12,075	12,135	12,015	12,000	13,295	13,295	13,415	13,415	13,295	13,295	13,415	12,987
E	714.623,9558	714.625,1933	714.625,1933	714.625,9506	714.628,9427	714.634,9269	714.635,6840	714.635,6840	714.637,4203	714.637,4203	714.638,1183	714.638,1183	714.639,6146	714.639,6146	714.640,2545
N	7.093.046,2497	7.093.046,3396	7.093.046,3396	7.093.046,3946	7.093.046,6120	7.093.047,0467	7.093.047,1017	7.093.047,1017	7.093.047,2278	7.093.047,2278	7.093.047,2785	7.093.047,2785	7.093.047,3872	7.093.047,3872	7.093.047,4337
Estaca: 0+151															
Dist. eixo (m)	-5,000	-3,759	-3,759	-3,000	0,000	6,000	6,759	6,759	8,500	8,500	9,200	9,200	10,700	10,700	11,339
Cota (m)	13,509	13,489	12,064	12,079	12,139	12,019	12,003	13,298	13,299	13,419	13,419	13,299	13,299	13,419	12,992
E	714.623,8560	714.625,0934	714.625,0934	714.625,8507	714.628,8428	714.634,8271	714.635,5842	714.635,5842	714.637,3205	714.637,3205	714.638,0185	714.638,0185	714.639,5147	714.639,5147	714.640,1524
N	7.093.047,6242	7.093.047,7141	7.093.047,7141	7.093.047,7691	7.093.047,9864	7.093.048,4211	7.093.048,4761	7.093.048,4761	7.093.048,6023	7.093.048,6023	7.093.048,6530	7.093.048,6530	7.093.048,7617	7.093.048,7617	7.093.048,8080
Estaca: 0+156															
Dist. eixo (m)	-5,000	-3,759	-3,759	-3,000	0,000	6,000	6,759	6,759	8,500	8,500	9,200	9,200	10,700	10,700	11,307
Cota (m)	13,555	13,519	12,085	12,100	12,160	12,040	12,025	13,320	13,320	13,440	13,440	13,320	13,320	13,440	13,035
E	714.623,5178	714.624,7551	714.624,7551	714.625,5124	714.628,5043	714.634,4881	714.635,2452	714.635,2452	714.636,9814	714.636,9814	714.637,6793	714.637,6793	714.639,1755	714.639,1755	714.639,7813
N	7.093.052,2499	7.093.052,3410	7.093.052,3410	7.093.052,3967	7.093.052,6168	7.093.053,0571	7.093.053,1128	7.093.053,1128	7.093.053,2405	7.093.053,2405	7.093.053,2919	7.093.053,2919	7.093.053,4020	7.093.053,4020	7.093.053,4465
Estaca: 0+160															
Dist. eixo (m)	-5,000	-3,759	-3,759	-3,000	0,000	6,000	6,759	6,759	8,500	8,500	9,200	9,200	10,700	10,700	11,208
Cota (m)	13,596	13,554	12,117	12,132	12,192	12,072	12,056	13,351	13,352	13,472	13,472	13,352	13,352	13,472	13,133
E	714.623,2245	714.624,4618	714.624,4618	714.625,2190	714.628,2108	714.634,1942	714.634,9512	714.634,9512	714.636,6873	714.636,6873	714.637,3852	714.637,3852	714.638,8813	714.638,8813	714.639,3877
N	7.093.056,2143	7.093.056,3063	7.093.056,3063	7.093.056,3626	7.093.056,5851	7.093.057,0302	7.093.057,0865	7.093.057,0865	7.093.057,2156	7.093.057,2156	7.093.057,2675	7.093.057,2675	7.093.057,3788	7.093.057,3788	7.093.057,4164
Estaca: 0+161															
Dist. eixo (m)	-5,000	-3,759	-3,759	-3,000	0,000	6,000	6,759	6,759	8,500	8,500	9,200	9,200	10,700	10,700	11,176
Cota (m)	13,603	13,561	12,123	12,138	12,198	12,078	12,063	13,358	13,358	13,478	13,478	13,358	13,358	13,478	13,161
E	714.622,4816	714.624,4126	714.624,4126	714.625,1698	714.628,1615	714.634,1449	714.634,9019	714.634,9019	714.636,6380	714.636,6380	714.637,3359	714.637,3359	714.638,8319	714.638,8319	714.639,3062
N	7.093.056,8754	7.093.056,9676	7.093.056,9676	7.093.057,0240	7.093.057,2469	7.093.057,6927	7.093.057,7491	7.093.057,7491	7.093.057,8785	7.093.057,8785	7.093.057,9305	7.093.057,9305	7.093.058,0419	7.093.058,0419	7.093.058,0773
Estaca: 0+170															
Dist. eixo (m)	-5,000	-3,759	-3,759	-3,000	0,000	6,000	6,759	6,759	8,500	8,500	9,200	9,200	10,700	10,700	11,019
Cota (m)	13,964	13,766	12,246	12,261	12,321	12,201	12,186	13,481	13,481	13,601	13,601	13,481	13,481	13,601	13,920
E	714.622,4816	714.623,7188	714.623,7188	714.624,4760	714.627,4678	714.633,4512	714.634,2082	714.634,2082	714.635,9443	714.635,9443	714.636,6421	714.636,6421	714.638,1382	714.638,1382	714.638,4562
N	7.093.066,1860	7.093.066,2782	7.093.066,2782	7.093.066,3346	7.093.066,5575	7.093.067,0033	7.093.067,0597	7.093.067,0597	7.093.067,1891	7.093.067,1891	7.093.067,2411	7.093.067,2411	7.093.067,3526	7.093.067,3526	7.093.067,3763

PROJETO DE ENGENHARIA VIÁRIA
DUPLICAÇÃO DA AVENIDA SANTOS DUMONT
NOTA DE SERVIÇO - EIXO 01

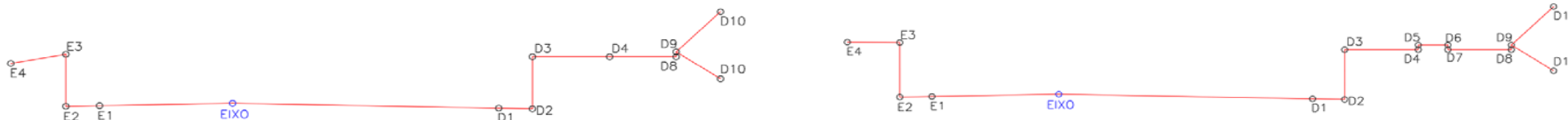
Local: Avenida Santos Dumont - Trecho entre Rua Dom Bosco e Av. Rolf Wiest

Município: Joinville/SC

Data: Junho/2024

Arquivo: RCV-10651-01-02-NS-01-A

Desenho Esquemático:



PONTOS NOTÁVEIS	E4	E3	E2	E1	EIXO	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10
Estaca: 0+180															
Dist. eixo (m)	-5,000	-3,759	-3,759	-3,000	0,000	6,000	6,759	6,759	8,500	8,500	9,200	9,200	10,700	10,700	10,740
Cota (m)	14,008	13,890	12,412	12,427	12,487	12,367	12,352	13,647	13,647	13,767	13,767	13,647	13,647	13,767	13,807
E	714.621,7385	714.622,9758	714.622,9758	714.623,7330	714.626,7247	714.632,7081	714.633,4651	714.633,4651	714.635,2012	714.635,2012	714.635,8991	714.635,8991	714.637,3951	714.637,3951	714.637,4348
N	7.093.076,1583	7.093.076,2505	7.093.076,2505	7.093.076,3069	7.093.076,5299	7.093.076,9757	7.093.077,0321	7.093.077,0321	7.093.077,1614	7.093.077,1614	7.093.077,2134	7.093.077,2134	7.093.077,3249	7.093.077,3249	7.093.077,3279
Estaca: 0+190															
Dist. eixo (m)	-5,000	-3,759	-3,759	-3,000	0,000	6,000	6,759	6,759	8,500	8,500	9,200	9,200	10,700	10,700	10,773
Cota (m)	14,053	14,014	12,578	12,593	12,653	12,533	12,518	13,813	13,813	13,933	13,933	13,813	13,813	13,933	13,884
E	714.620,9955	714.622,2328	714.622,2328	714.622,9900	714.625,9817	714.631,9651	714.632,7221	714.632,7221	714.634,4582	714.634,4582	714.635,1560	714.635,1560	714.636,6521	714.636,6521	714.636,7251
N	7.093.086,1307	7.093.086,2229	7.093.086,2229	7.093.086,2793	7.093.086,5022	7.093.086,9480	7.093.087,0044	7.093.087,0044	7.093.087,1338	7.093.087,1338	7.093.087,1858	7.093.087,1858	7.093.087,2973	7.093.087,2973	7.093.087,3027
Estaca: 0+200															
Dist. eixo (m)	-5,000	-3,759	-3,759	-3,000	0,000	6,000	6,759	6,759	8,500				10,038	10,038	10,073
Cota (m)	14,143	14,153	12,744	12,759	12,819	12,699	12,684	13,979	13,979				13,979	14,099	14,076
E	714.620,2525	714.621,4897	714.621,4897	714.622,2469	714.625,2386	714.631,2220	714.631,9791	714.631,9791	714.633,7151				714.635,2493	714.635,2493	714.635,2840
N	7.093.096,1031	7.093.096,1952	7.093.096,1952	7.093.096,2517	7.093.096,4746	7.093.096,9204	7.093.096,9768	7.093.096,9768	7.093.097,1062				7.093.097,2205	7.093.097,2205	7.093.097,2230
Estaca: 0+210															
Dist. eixo (m)	-5,000	-3,759	-3,759	-3,000	0,000	6,000	6,759	6,759	8,500	8,500	9,200	9,200	10,700	10,700	10,845
Cota (m)	14,287	14,312	12,910	12,925	12,985	12,865	12,850	14,145	14,145	14,265	14,265	14,145	14,145	14,265	14,168
E	714.619,5094	714.620,7467	714.620,7467	714.621,5039	714.624,4956	714.630,4790	714.631,2360	714.631,2360	714.632,9721	714.632,9721	714.633,6700	714.633,6700	714.635,1660	714.635,1660	714.635,3109
N	7.093.106,0754	7.093.106,1676	7.093.106,1676	7.093.106,2240	7.093.106,4469	7.093.106,8928	7.093.106,9492	7.093.106,9492	7.093.107,0785	7.093.107,0785	7.093.107,1305	7.093.107,1305	7.093.107,2420	7.093.107,2420	7.093.107,2528
Estaca: 0+220															
Dist. eixo (m)	-5,000	-3,759	-3,759	-3,000	0,000	6,000	6,759	6,759	8,500	8,500	9,200	9,200	10,700	10,700	10,973
Cota (m)	14,303	14,425	13,075	13,090	13,150	13,030	13,015	14,310	14,310	14,430	14,430	14,310	14,310	14,430	14,248
E	714.618,7664	714.620,0036	714.620,0036	714.620,7608	714.623,7526	714.629,7360	714.630,4930	714.630,4930	714.632,2291	714.632,2291	714.632,9269	714.632,9269	714.634,4230	714.634,4230	714.634,6955
N	7.093.116,0478	7.093.116,1400	7.093.116,1400	7.093.116,1964	7.093.116,4193	7.093.116,8651	7.093.116,9215	7.093.116,9215	7.093.117,0509	7.093.117,0509	7.093.117,1029	7.093.117,1029	7.093.117,2143	7.093.117,2143	7.093.117,2346
Estaca: 0+230															
Dist. eixo (m)	-5,000	-3,759	-3,759	-3,000	0,000	6,000	6,759	6,759	8,500	8,500	9,200	9,200	10,700	10,700	10,858
Cota (m)	14,386	14,537	13,203	13,218	13,278	13,158	13,142	14,437	14,438	14,558	14,558	14,438	14,438	14,558	14,452
E	714.618,0233	714.619,2606	714.619,2606	714.620,0178	714.623,0095	714.628,9929	714.629,7499	714.629,7499	714.631,4860	714.631,4860	714.632,1839	714.632,1839	714.633,6799	714.633,6799	714.633,8376
N	7.093.126,0201	7.093.126,1123	7.093.126,1123	7.093.126,1687	7.093.126,3916	7.093.126,8375	7.093.126,8939	7.093.126,8939	7.093.127,0232	7.093.127,0232	7.093.127,0752	7.093.127,0752	7.093.127,1867	7.093.127,1867	7.093.127,1984
Estaca: 0+240															
Dist. eixo (m)	-5,000	-3,759	-3,759	-3,000	0,000	6,000	6,759	6,759	8,500	8,500	9,200	9,200	10,700	10,700	11,152
Cota (m)	14,462	14,610	13,273	13,288	13,348	13,228	13,213	14,508	14,508	14,628	14,628	14,508	14,508	14,628	14,327
E	714.617,2803	714.618,5176	714.618,5176	714.619,2748	714.622,2665	714.628,2499	714.629,0069	714.629,0069	714.630,7430	714.630,7430	714.631,4408	714.631,4408	714.632,9369	714.632,9369	714.633,3872
N	7.093.135,9925	7.093.136,0847	7.093.136,0847	7.093.136,1411	7.093.136,3640	7.093.136,8098	7.093.136,8662	7.093.136,8662	7.093.136,9956	7.093.136,9956	7.093.137,0476	7.093.137,0476	7.093.137,1590	7.093.137,1590	7.093.137,1926
Estaca: 0+250															
Dist. eixo (m)	-5,000	-3,759	-3,759	-3,000	0,000	6,000	6,759	6,759	8,500	8,500	9,200	9,200	10,700	10,700	11,075
Cota (m)	14,514	14,636	13,286	13,301	13,361	13,241	13,226	14,521	14,521	14,641	14,641	14,521	14,521	14,641	14,391
E	714.616,5373	714.617,7745	714.617,7745	714.618,5317	714.621,5234	714.628,2639	714.629,9999	714.629,9999	714.630,9999	714.630,9999	714.630,6978	714.630,6978	714.632,1939	714.632,1939	714.632,5675
N	7.093.145,9648	7.093.146,0570	7.093.146,0570	7.093.146,1134	7.093.146,3364	7.093.146,7822	7.093.146,8386	7.093.146,8386	7.093.146,9679	7.093.146,9679	7.093.147,0199	7.093.147,0199	7.093.147,1314	7.093.147,1314	7.093.147,1592

PROJETO DE ENGENHARIA VIÁRIA
DUPLICAÇÃO DA AVENIDA SANTOS DUMONT
NOTA DE SERVIÇO - EIXO 01

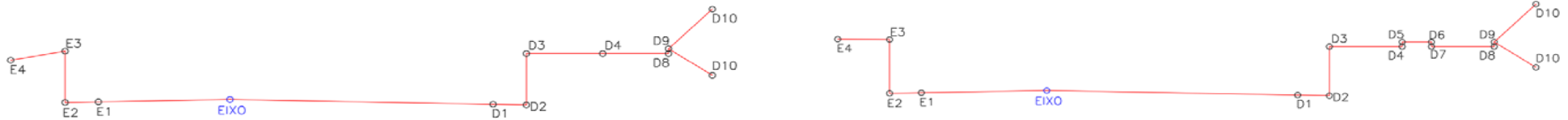
Local: Avenida Santos Dumont - Trecho entre Rua Dom Bosco e Av. Rolf Wiest

Município: Joinville/SC

Data: Junho/2024

Arquivo: RCV-10651-01-02-NS-01-A

Desenho Esquemático:



PONTOS NOTÁVEIS	E4	E3	E2	E1	EIXO	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10
Estaca: 0+260															
Dist. eixo (m)	-5,000	-3,759	-3,759	-3,000	0,000	6,000	6,759	6,759	8,500	8,500	9,200	9,200	10,700	10,700	10,824
Cota (m)	14,565	14,626	13,243	13,258	13,318	13,198	13,183	14,478	14,478	14,598	14,598	14,478	14,478	14,598	14,515
E	714.615,7942	714.617,0315	714.617,0315	714.617,7887	714.620,7804	714.626,7638	714.627,5208	714.627,5208	714.629,2569	714.629,2569	714.629,9548	714.629,9548	714.631,4508	714.631,4508	714.631,5749
N	7.093.155,9372	7.093.156,0294	7.093.156,0294	7.093.156,0858	7.093.156,3087	7.093.156,7545	7.093.156,8109	7.093.156,8109	7.093.156,9403	7.093.156,9403	7.093.156,9923	7.093.156,9923	7.093.157,1038	7.093.157,1038	7.093.157,1130
Estaca: 0+269															
Dist. eixo (m)	-5,000	-3,759	-3,759	-3,000	0,000	6,000	6,759	6,759	8,500	8,500	9,200	9,200	10,700	10,700	10,729
Cota (m)	14,614	14,604	13,183	13,198	13,258	13,138	13,123	14,418	14,418	14,538	14,538	14,418	14,418	14,538	14,567
E	714.615,0914	714.616,3286	714.616,3286	714.617,0858	714.620,0775	714.626,0609	714.626,8180	714.626,8180	714.628,5540	714.628,5540	714.629,2519	714.629,2519	714.630,7480	714.630,7480	714.630,7765
N	7.093.165,3704	7.093.165,4626	7.093.165,4626	7.093.165,5190	7.093.165,7419	7.093.166,1877	7.093.166,2441	7.093.166,2441	7.093.166,3735	7.093.166,3735	7.093.166,4255	7.093.166,4255	7.093.166,5369	7.093.166,5369	7.093.166,5391
Estaca: 0+270															
Dist. eixo (m)	-5,000	-3,759	-3,759	-3,000	0,000	6,000	6,759	6,759	8,500	8,500	9,200	9,200	10,700	10,700	10,730
Cota (m)	14,617	14,602	13,180	13,195	13,255	13,135	13,120	14,415	14,415	14,535	14,535	14,415	14,415	14,535	14,565
E	714.615,0512	714.616,2884	714.616,2884	714.617,0457	714.620,0374	714.626,0208	714.626,7779	714.626,7779	714.628,5140	714.628,5140	714.629,2118	714.629,2118	714.630,7079	714.630,7079	714.630,7376
N	7.093.165,9101	7.093.166,0021	7.093.166,0021	7.093.166,0585	7.093.166,2811	7.093.166,7262	7.093.166,7826	7.093.166,7826	7.093.166,9117	7.093.166,9117	7.093.166,9637	7.093.166,9637	7.093.167,0750	7.093.167,0750	7.093.167,0772
Estaca: 0+274															
Dist. eixo (m)	-5,000	-3,759	-3,759	-3,000	0,000	6,000	6,759	6,759	8,500	8,500	9,200	9,200	10,700	10,700	10,738
Cota (m)	14,637	14,594	13,156	13,171	13,231	13,111	13,096	14,391	14,391	14,511	14,511	14,391	14,391	14,511	14,549
E	714.614,7734	714.616,0108	714.616,0108	714.616,7680	714.619,7599	714.625,7437	714.626,5008	714.626,5008	714.628,2370	714.628,2370	714.628,9349	714.628,9349	714.630,4310	714.630,4310	714.630,4684
N	7.093.169,6622	7.093.169,7533	7.093.169,7533	7.093.169,8091	7.093.170,0294	7.093.170,4701	7.093.170,5258	7.093.170,5258	7.093.170,6537	7.093.170,6537	7.093.170,7051	7.093.170,7051	7.093.170,8153	7.093.170,8153	7.093.170,8180
Estaca: 0+278															
Dist. eixo (m)	-5,000	-3,759	-3,759	-3,000	0,000	6,000	6,759	6,759	8,500	8,500	9,200	9,200	10,700	10,700	10,742
Cota (m)	14,661	14,585	13,129	13,144	13,204	13,084	13,069	14,364	14,364	14,484	14,484	14,364	14,364	14,484	14,526
E	714.614,4592	714.615,6966	714.615,6966	714.616,4539	714.619,4460	714.625,4302	714.626,1873	714.626,1873	714.627,9236	714.627,9236	714.628,6215	714.628,6215	714.630,1178	714.630,1178	714.630,1593
N	7.093.173,9542	7.093.174,0443	7.093.174,0443	7.093.174,0994	7.093.174,3172	7.093.174,7527	7.093.174,8078	7.093.174,8078	7.093.174,9341	7.093.174,9341	7.093.174,9849	7.093.174,9849	7.093.175,0938	7.093.175,0938	7.093.175,0969
Estaca: 0+280															
Dist. eixo (m)	-5,000	-3,759	-3,759	-3,000	0,000	6,000	6,759	6,759	8,500	8,500	9,200	9,200	10,700	10,700	10,791
Cota (m)	14,672	14,580	13,117	13,132	13,192	13,072	13,057	14,352	14,352	14,472	14,472	14,352	14,352	14,472	14,411
E	714.614,3182	714.615,5557	714.615,5557	714.616,3130	714.619,3050	714.625,2892	714.626,0463	714.626,0463	714.627,7826	714.627,7826	714.628,4806	714.628,4806	714.629,9768	714.629,9768	714.630,0680
N	7.093.175,8913	7.093.175,9813	7.093.175,9813	7.093.176,0365	7.093.176,2542	7.093.176,6897	7.093.176,7448	7.093.176,7448	7.093.176,8712	7.093.176,8712	7.093.176,9220	7.093.176,9220	7.093.177,0309	7.093.177,0309	7.093.177,0375
Estaca: 0+290															
Dist. eixo (m)	-5,000	-3,759	-3,759	-3,000	0,000	6,000	6,759	6,759	8,500	8,500	9,200	9,200	10,700	10,700	11,856
Cota (m)	14,727	14,558	13,054	13,069	13,129	13,009	12,993	14,288	14,289	14,409	14,409	14,289	14,289	14,409	13,638
E	714.612,8665	714.614,8298	714.614,8298	714.615,5871	714.618,5792	714.624,5634	714.625,3205	714.625,3205	714.627,0568	714.627,0568	714.627,7547	714.627,7547	714.629,2510	714.629,2510	714.630,4036
N	7.093.185,8649	7.093.185,9550	7.093.185,9550	7.093.186,0101	7.093.186,2278	7.093.186,6633	7.093.186,7184	7.093.186,7184	7.093.186,8448	7.093.186,8448	7.093.186,8956	7.093.186,8956	7.093.187,0045	7.093.187,0045	7.093.187,0884
Estaca: 0+300															
Dist. eixo (m)	-5,000	-3,759	-3,759	-3,000	0,000	6,000	6,759	6,759	8,500	8,500	9,200	9,200	10,700	10,700	11,890
Cota (m)	14,783	14,537	12,991	13,006	13,066	12,946	12,930	14,225	14,226	14,346	14,346	14,226	14,226	14,346	13,552
E	714.612,8665	714.614,1039	714.614,1039	714.614,8612	714.617,8533	714.623,8375	714.624,5946	714.624,5946	714.626,3309	714.626,3309	714.627,0289	714.627,0289	714.628,5251	714.628,5251	714.629,7116
N	7.093.195,8385	7.093.195,9286	7.093.195,9286	7.093.195,9837	7.093.196,2015	7.093.196,6370	7.093.196,6921	7.093.196,6921	7.093.196,8184	7.093.196,8184	7.093.196,8692	7.093.196,8692	7.093.196,9781	7.093.196,9781	7.093.197,0645

PROJETO DE ENGENHARIA VIÁRIA
DUPLICAÇÃO DA AVENIDA SANTOS DUMONT
NOTA DE SERVIÇO - EIXO 01

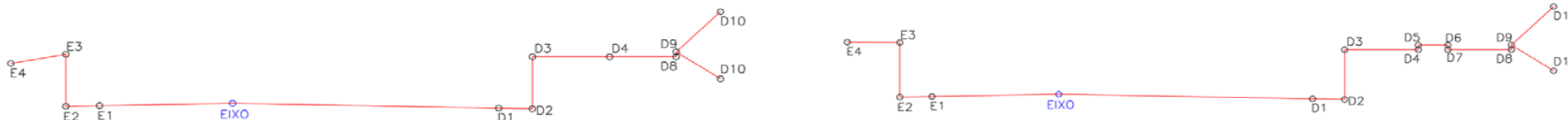
Local: Avenida Santos Dumont - Trecho entre Rua Dom Bosco e Av. Rolf Wiest

Município: Joinville/SC

Data: Junho/2024

Arquivo: RCV-10651-01-02-NS-01-A

Desenho Esquemático:



PONTOS NOTÁVEIS	E4	E3	E2	E1	EIXO	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10
Estaca: 0+310															
Dist. eixo (m)	-5,000	-3,759	-3,759	-3,000	0,000	6,000	6,759	6,759	8,500	8,500	9,200	9,200	10,700	10,700	11,875
Cota (m)	14,826	14,510	12,927	12,942	13,002	12,882	12,867	14,162	14,162	14,282	14,282	14,162	14,162	14,282	13,499
E	714.612,1407	714.613,3781	714.613,3781	714.614,1354	714.617,1275	714.623,1117	714.623,8688	714.623,8688	714.625,6051	714.625,6051	714.626,3030	714.626,3030	714.627,7993	714.627,7993	714.628,9707
N	7.093.205,8122	7.093.205,9022	7.093.205,9022	7.093.205,9573	7.093.206,1751	7.093.206,6106	7.093.206,6657	7.093.206,6657	7.093.206,7921	7.093.206,7921	7.093.206,8429	7.093.206,8429	7.093.206,9517	7.093.206,9517	7.093.207,0370
Estaca: 0+320															
Dist. eixo (m)	-5,000	-3,759	-3,759	-3,000	0,000	6,000	6,759	6,759	8,500	8,500	9,200	9,200	10,700	10,700	11,747
Cota (m)	14,857	14,480	12,864	12,879	12,939	12,819	12,804	14,099	14,099	14,219	14,219	14,099	14,099	14,219	13,521
E	714.611,4148	714.612,6522	714.612,6522	714.613,4095	714.616,4016	714.622,3858	714.623,1429	714.623,1429	714.624,8792	714.624,8792	714.625,5772	714.625,5772	714.627,0734	714.627,0734	714.628,1180
N	7.093.215,7858	7.093.215,8758	7.093.215,8758	7.093.215,9309	7.093.216,1487	7.093.216,5842	7.093.216,6393	7.093.216,6393	7.093.216,7657	7.093.216,7657	7.093.216,8165	7.093.216,8165	7.093.216,9254	7.093.216,9254	7.093.217,0014
Estaca: 0+330															
Dist. eixo (m)	-5,000	-3,759	-3,759	-3,000	0,000	6,000	6,759	6,759	8,500	8,500	9,200	9,200	10,700	10,700	11,564
Cota (m)	14,855	14,438	12,801	12,816	12,876	12,756	12,741	14,036	14,036	14,156	14,156	14,036	14,036	14,156	13,580
E	714.610,6890	714.611,9264	714.611,9264	714.612,6837	714.615,6758	714.621,6599	714.622,4170	714.622,4170	714.624,1533	714.624,1533	714.624,8513	714.624,8513	714.626,3475	714.626,3475	714.627,2094
N	7.093.225,7594	7.093.225,8495	7.093.225,8495	7.093.225,9046	7.093.226,1223	7.093.226,5578	7.093.226,6129	7.093.226,6129	7.093.226,7393	7.093.226,7393	7.093.226,7901	7.093.226,7901	7.093.226,8990	7.093.226,8990	7.093.226,9617
Estaca: 0+340															
Dist. eixo (m)	-5,000	-3,759	-3,759	-3,000	0,000	6,000	6,759	6,759	8,500	8,500	9,200	9,200	10,700	10,700	11,289
Cota (m)	14,783	14,372	12,738	12,753	12,813	12,693	12,678	13,973	13,973	14,093	14,093	13,973	13,973	14,093	13,701
E	714.609,9631	714.611,2005	714.611,2005	714.611,9578	714.614,9499	714.620,9341	714.621,6912	714.621,6912	714.623,4275	714.623,4275	714.624,1254	714.624,1254	714.625,6217	714.625,6217	714.626,2089
N	7.093.235,7330	7.093.235,8231	7.093.235,8231	7.093.235,8782	7.093.236,0959	7.093.236,5315	7.093.236,5866	7.093.236,5866	7.093.236,7129	7.093.236,7129	7.093.236,7637	7.093.236,7637	7.093.236,8726	7.093.236,8726	7.093.236,9153
Estaca: 0+350															
Dist. eixo (m)	-5,000	-3,759	-3,759	-3,000	0,000	6,000	6,759	6,759	8,500				10,000	10,000	10,317
Cota (m)	14,773	14,344	12,701	12,716	12,776	12,656	12,641	13,936	13,936				13,936	14,056	13,844
E	714.609,2372	714.610,4747	714.610,4747	714.611,2320	714.614,2241	714.620,2082	714.620,9653	714.620,9653	714.622,7016				714.624,1977	714.624,1977	714.624,5140
N	7.093.245,7066	7.093.245,7967	7.093.245,7967	7.093.245,8518	7.093.246,0696	7.093.246,5051	7.093.246,5602	7.093.246,5602	7.093.246,6865				7.093.246,7954	7.093.246,7954	7.093.246,8184
Estaca: 0+360															
Dist. eixo (m)	-5,000	-3,759	-3,759	-3,000	0,000	6,000	6,759	6,759	8,500				10,000	10,000	10,427
Cota (m)	14,763	14,354	12,721	12,736	12,796	12,676	12,661	13,956	13,956				13,956	14,076	13,791
E	714.608,5114	714.609,7488	714.609,7488	714.610,5061	714.613,4982	714.619,4824	714.620,2395	714.620,2395	714.621,9758				714.623,4718	714.623,4718	714.623,8978
N	7.093.255,6803	7.093.255,7703	7.093.255,7703	7.093.255,8254	7.093.256,0432	7.093.256,4787	7.093.256,5338	7.093.256,5338	7.093.256,6602				7.093.256,7690	7.093.256,7690	7.093.256,8000
Estaca: 0+370															
Dist. eixo (m)	-5,000	-3,759	-3,759	-3,000	0,000	6,000	6,759	6,759	8,500				10,000		
Cota (m)	14,800	14,418	12,799	12,814	12,874	12,754	12,739	14,034	14,034				14,034		
E	714.607,7855	714.609,0230	714.609,0230	714.609,7803	714.612,7723	714.618,7565	714.619,5136	714.619,5136	714.621,2499				714.622,7460		
N	7.093.265,6539	7.093.265,7439	7.093.265,7439	7.093.265,7991	7.093.266,0168	7.093.266,4523	7.093.266,5074	7.093.266,5074	7.093.266,6338				7.093.266,7427		
Estaca: 0+380															
Dist. eixo (m)	-5,000	-3,759	-3,759	-3,000	0,000	6,000	6,759	6,759	8,500				10,000	10,000	10,011
Cota (m)	14,784	14,484	12,910	12,925	12,985	12,865	12,850	14,145	14,145				14,145	14,265	13,158
E	714.607,0597	714.608,2971	714.608,2971	714.609,0544	714.612,0465	714.618,0307	714.618,7878	714.618,7878	714.620,5241				714.622,0201	714.622,0201	714.622,0312
N	7.093.275,6275	7.093.275,7176	7.093.275,7176	7.093.275,7727	7.093.275,9904	7.093.276,4259	7.093.276,4810	7.093.276,4810	7.093.276,6074				7.093.276,7163	7.093.276,7163	7.093.276,7171

PROJETO DE ENGENHARIA VIÁRIA
DUPLICAÇÃO DA AVENIDA SANTOS DUMONT
NOTA DE SERVIÇO - EIXO 01

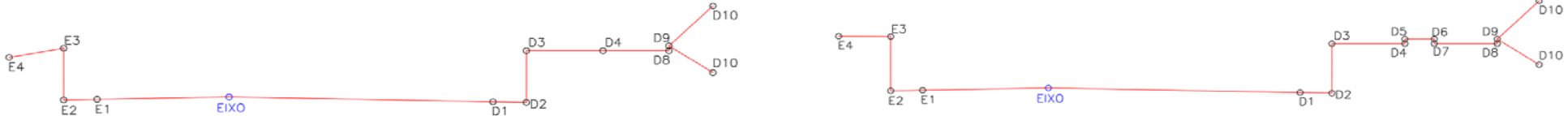
Local: Avenida Santos Dumont - Trecho entre Rua Dom Bosco e Av. Rolf Wiest

Município: Joinville/SC

Data: Junho/2024

Arquivo: RCV-10651-01-02-NS-01-A

Desenho Esquemático:



PONTOS NOTÁVEIS	E4	E3	E2	E1	EIXO	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10
Estaca: 0+390															
Dist. eixo (m)	-5,000	-3,759	-3,759	-3,000	0,000	6,000	6,759	6,759	8,500				10,000	10,000	10,019
Cota (m)	14,755	14,546	13,020	13,035	13,095	12,975	12,960	14,255	14,255				14,255	14,375	12,505
E	714.606,3338	714.607,5712	714.607,5712	714.608,3286	714.611,3206	714.617,3048	714.618,0619	714.618,0619	714.619,7982				714.621,2943	714.621,2943	714.621,3129
N	7.093.285,6011	7.093.285,6912	7.093.285,6912	7.093.285,7463	7.093.285,9641	7.093.286,3996	7.093.286,4547	7.093.286,4547	7.093.286,5810				7.093.286,6899	7.093.286,6899	7.093.286,6913
Estaca: 0+400															
Dist. eixo (m)	-5,000	-3,759	-3,759	-3,000	0,000	6,000	6,759	6,759	8,500				10,000	10,000	10,011
Cota (m)	14,726	14,609	13,131	13,146	13,206	13,086	13,071	14,366	14,366				14,366	14,486	13,421
E	714.605,6080	714.606,8454	714.606,8454	714.607,6027	714.610,5948	714.616,5790	714.617,3361	714.617,3361	714.619,0724				714.620,5684	714.620,5684	714.620,5790
N	7.093.295,5747	7.093.295,6648	7.093.295,6648	7.093.295,7199	7.093.295,9377	7.093.296,3732	7.093.296,4283	7.093.296,4283	7.093.296,5547				7.093.296,6635	7.093.296,6635	7.093.296,6643
Estaca: 0+410															
Dist. eixo (m)	-5,000	-3,759	-3,759	-3,000	0,000	6,000	6,759	6,759	8,500				10,000	10,000	10,027
Cota (m)	14,698	14,671	13,242	13,257	13,317	13,197	13,181	14,476	14,477				14,477	14,597	11,871
E	714.604,8821	714.606,1195	714.606,1195	714.606,8768	714.609,8689	714.615,8531	714.616,6102	714.616,6102	714.618,3465				714.619,8426	714.619,8426	714.619,8697
N	7.093.305,5484	7.093.305,6384	7.093.305,6384	7.093.305,6935	7.093.305,9113	7.093.306,3468	7.093.306,4019	7.093.306,4019	7.093.306,5283				7.093.306,6372	7.093.306,6372	7.093.306,6391
Estaca: 0+420															
Dist. eixo (m)	-5,000	-3,759	-3,759	-3,000	0,000	6,000	6,759	6,759	8,500				10,000	10,000	10,039
Cota (m)	14,726	14,753	13,352	13,367	13,427	13,307	13,292	14,587	14,587				14,587	14,707	10,765
E	714.604,1563	714.605,3937	714.605,3937	714.606,1510	714.609,1431	714.615,1272	714.615,8844	714.615,8844	714.617,6207				714.619,1167	714.619,1167	714.619,1560
N	7.093.315,5220	7.093.315,6120	7.093.315,6120	7.093.315,6672	7.093.315,8849	7.093.316,3204	7.093.316,3755	7.093.316,3755	7.093.316,5019				7.093.316,6108	7.093.316,6108	7.093.316,6136
Estaca: 0+430															
Dist. eixo (m)	-5,000	-3,759	-3,759	-3,000	0,000	6,000	6,759	6,759	8,500				10,000	10,000	10,030
Cota (m)	14,679	14,803	13,454	13,469	13,529	13,409	13,393	14,688	14,689				14,689	14,809	14,839
E	714.603,4304	714.604,6678	714.604,6678	714.605,4251	714.608,4172	714.614,4014	714.615,1585	714.615,1585	714.616,8948				714.618,3908	714.618,3908	714.618,4211
N	7.093.325,4956	7.093.325,5857	7.093.325,5857	7.093.325,6408	7.093.325,8585	7.093.326,2941	7.093.326,3492	7.093.326,3492	7.093.326,4755				7.093.326,5844	7.093.326,5844	7.093.326,5866
Estaca: 0+440															
Dist. eixo (m)	-5,000	-3,759	-3,759	-3,000	0,000	6,000	6,759	6,759	8,500				10,000	10,000	10,145
Cota (m)	14,685	14,844	13,513	13,528	13,588	13,468	13,453	14,748	14,748				14,748	14,868	14,771
E	714.602,7046	714.603,9420	714.603,9420	714.604,6993	714.607,6914	714.613,6755	714.614,4326	714.614,4326	714.616,1689				714.617,6650	714.617,6650	714.617,8093
N	7.093.335,4692	7.093.335,5593	7.093.335,5593	7.093.335,6144	7.093.335,8322	7.093.336,2677	7.093.336,3228	7.093.336,3228	7.093.336,4491				7.093.336,5580	7.093.336,5580	7.093.336,5685
Estaca: 0+450															
Dist. eixo (m)	-5,000	-3,759	-3,759	-3,000	0,000	6,000	6,759	6,759	8,500				10,000		
Cota (m)	14,654	14,848	13,536	13,551	13,611	13,491	13,476	14,771	14,771				14,771		
E	714.601,9787	714.603,2161	714.603,2161	714.603,9734	714.606,9655	714.612,9497	714.613,7068	714.613,7068	714.615,4431				714.616,9391		
N	7.093.345,4429	7.093.345,5329	7.093.345,5329	7.093.345,5880	7.093.345,8058	7.093.346,2413	7.093.346,2964	7.093.346,2964	7.093.346,4228				7.093.346,5316		
Estaca: 0+460															
Dist. eixo (m)	-5,000	-3,759	-3,759	-3,000	0,000	6,000	6,759	6,759	8,500				10,000	10,000	10,008
Cota (m)	14,624	14,851	13,556	13,571	13,631	13,511	13,496	14,791	14,791				14,791	14,911	14,919
E	714.601,2528	714.602,4903	714.602,4903	714.603,2476	714.606,2397	714.612,2238	714.612,9809	714.612,9809	714.614,7172				714.616,2133	714.616,2133	714.616,2215
N	7.093.355,4165	7.093.355,5065	7.093.355,5065	7.093.355,5617	7.093.355,7794	7.093.356,2149	7.093.356,2700	7.093.356,2700	7.093.356,3964				7.093.356,5053	7.093.356,5053	7.093.356,5059

PROJETO DE ENGENHARIA VIÁRIA
DUPLICAÇÃO DA AVENIDA SANTOS DUMONT
NOTA DE SERVIÇO - EIXO 01

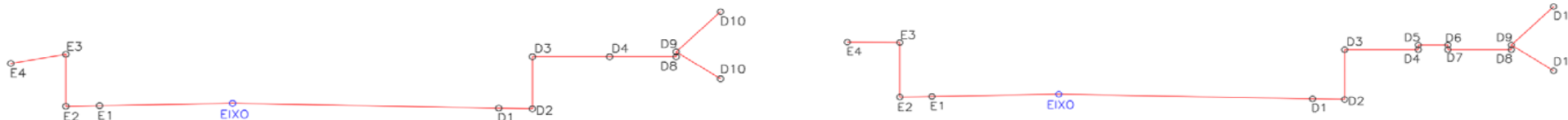
Local: Avenida Santos Dumont - Trecho entre Rua Dom Bosco e Av. Rolf Wiest

Município: Joinville/SC

Data: Junho/2024

Arquivo: RCV-10651-01-02-NS-01-A

Desenho Esquemático:



PONTOS NOTÁVEIS	E4	E3	E2	E1	EIXO	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10
Estaca: 0+470															
Dist. eixo (m)	-5,000	-3,759	-3,759	-3,000	0,000	6,000	6,759	6,759	8,500				10,000	10,000	10,019
Cota (m)	14,605	14,857	13,576	13,591	13,651	13,531	13,516	14,811	14,811				14,811	14,931	14,919
E	714.600,5270	714.601,7644	714.601,7644	714.602,5217	714.605,5138	714.611,4980	714.612,2551	714.612,2551	714.613,9914				714.615,4874	714.615,4874	714.615,5060
N	7.093.365,3901	7.093.365,4802	7.093.365,4802	7.093.365,5353	7.093.365,7530	7.093.366,1885	7.093.366,2436	7.093.366,2436	7.093.366,3700				7.093.366,4789	7.093.366,4789	7.093.366,4802
Estaca: 0+480															
Dist. eixo (m)	-5,000	-3,759	-3,759	-3,000	0,000	6,000	6,759	6,759	8,500				10,000	10,000	10,045
Cota (m)	14,600	14,868	13,596	13,611	13,671	13,551	13,536	14,831	14,831				14,831	14,951	14,921
E	714.599,8011	714.601,0386	714.601,0386	714.601,7959	714.604,7879	714.610,7721	714.611,5292	714.611,5292	714.613,2655				714.614,7616	714.614,7616	714.614,8063
N	7.093.375,3637	7.093.375,4538	7.093.375,4538	7.093.375,5089	7.093.375,7267	7.093.376,1622	7.093.376,2173	7.093.376,2173	7.093.376,3436				7.093.376,4525	7.093.376,4525	7.093.376,4558
Estaca: 0+490															
Dist. eixo (m)	-5,000	-3,759	-3,759	-3,000	0,000	6,000	6,759	6,759	8,500				10,000	10,000	10,108
Cota (m)	14,643	14,896	13,616	13,631	13,691	13,571	13,556	14,851	14,851				14,851	14,971	14,899
E	714.599,0753	714.600,3127	714.600,3127	714.601,0700	714.604,0621	714.610,0463	714.610,8034	714.610,8034	714.612,5397				714.614,0357	714.614,0357	714.614,1434
N	7.093.385,3373	7.093.385,4274	7.093.385,4274	7.093.385,4825	7.093.385,7003	7.093.386,1358	7.093.386,1909	7.093.386,1909	7.093.386,3173				7.093.386,4261	7.093.386,4261	7.093.386,4340
Estaca: 0+494															
Dist. eixo (m)	-5,000	-3,759	-3,759	-3,000	0,000	6,000	6,759	6,759	8,500				10,000	10,000	10,120
Cota (m)	14,648	14,903	13,624	13,639	13,699	13,579	13,564	14,859	14,859				14,859	14,979	14,900
E	714.598,7753	714.600,0127	714.600,0127	714.600,7701	714.603,7621	714.609,7463	714.610,5034	714.610,5034	714.612,2397				714.613,7358	714.613,7358	714.613,8550
N	7.093.389,4589	7.093.389,5489	7.093.389,5489	7.093.389,6040	7.093.389,8218	7.093.390,2573	7.093.390,3124	7.093.390,3124	7.093.390,4388				7.093.390,5477	7.093.390,5477	7.093.390,5563
Estaca: 0+500															
Dist. eixo (m)	-5,154	-3,759	-3,759	-3,000	0,000	6,000	6,759	6,759	8,500				10,000	10,000	10,191
Cota (m)	14,653	14,923	13,636	13,651	13,711	13,591	13,576	14,871	14,871				14,871	14,991	14,864
E	714.598,3309	714.599,7248	714.599,7248	714.600,4839	714.603,4831	714.609,4816	714.610,2405	714.610,2405	714.611,9810				714.613,4806	714.613,4806	714.613,6718
N	7.093.395,5662	7.093.395,5975	7.093.395,5975	7.093.395,6146	7.093.395,6821	7.093.395,8171	7.093.395,8342	7.093.395,8342	7.093.395,8733				7.093.395,9071	7.093.395,9071	7.093.395,9114
Estaca: 0+508															
Dist. eixo (m)	-5,808	-3,759	-3,759	-3,000	0,000	6,000	6,759	6,759	8,500				10,000	10,000	10,244
Cota (m)	14,659	14,967	13,651	13,666	13,726	13,606	13,591	14,886	14,886				14,886	15,006	14,843
E	714.597,7543	714.599,8014	714.599,8014	714.600,5601	714.603,5574	714.609,5521	714.610,3105	714.610,3105	714.612,0498				714.613,5485	714.613,5485	714.613,7928
N	7.093.403,4882	7.093.403,4018	7.093.403,4018	7.093.403,3699	7.093.403,2435	7.093.402,9907	7.093.402,9587	7.093.402,9587	7.093.402,8854				7.093.402,8222	7.093.402,8222	7.093.402,8119
Estaca: 0+510															
Dist. eixo (m)	-6,131	-3,759	-3,759	-3,000	0,000	6,000	6,759	6,759	8,500				10,000	10,000	10,264
Cota (m)	14,661	14,982	13,656	13,671	13,731	13,611	13,596	14,891	14,891				14,891	15,011	14,835
E	714.597,5669	714.599,9336	714.599,9336	714.600,6914	714.603,6854	714.609,6735	714.610,4311	714.610,4311	714.612,1686				714.613,6656	714.613,6656	714.613,9292
N	7.093.406,0628	7.093.405,9136	7.093.405,9136	7.093.405,8658	7.093.405,6770	7.093.405,2995	7.093.405,2517	7.093.405,2517	7.093.405,1421				7.093.405,0477	7.093.405,0477	7.093.405,0311
Estaca: 0+520															
Dist. eixo (m)	-8,044	-3,761	-3,761	-3,000	0,000	6,000	6,752	6,752	8,500				10,000	10,000	10,489
Cota (m)	14,671	15,026	13,666	13,681	13,751	13,731	13,729	15,024	15,011				15,011	15,131	14,805
E	714.596,7849	714.601,0207	714.601,0207	714.601,7732	714.604,7402	714.610,6742	714.611,4174	714.611,4174	714.613,1467				714.614,6302	714.614,6302	714.615,1141
N	7.093.416,8078	7.093.416,1744	7.093.416,1744	7.093.416,0619	7.093.415,6182	7.093.414,7308	7.093.414,6197	7.093.414,6197	7.093.414,3611				7.093.414,1392	7.093.414,1392	7.093.414,0669

PROJETO DE ENGENHARIA VIÁRIA
DUPLICAÇÃO DA AVENIDA SANTOS DUMONT
NOTA DE SERVIÇO - EIXO 01

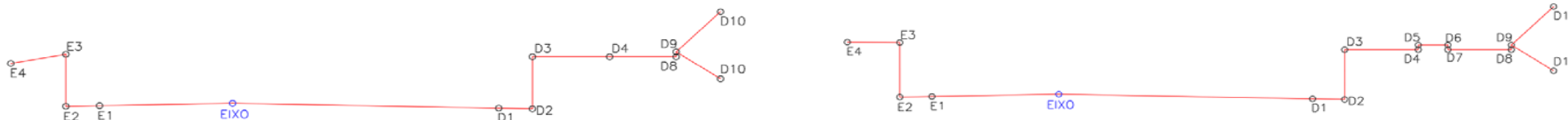
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Município: Joinville/SC

Data: Junho/2024

Arquivo: RCV-10651-01-02-NS-01-A

Desenho Esquemático:



PONTOS NOTÁVEIS	E4	E3	E2	E1	EIXO	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10
Estaca: 0+521															
Dist. eixo (m)	-8,287	-3,761	-3,761	-3,000	0,000	6,000	6,751	6,751	8,500				10,000	10,000	10,509
Cota (m)	14,677	15,030	13,667	13,682	13,753	13,743	13,742	15,037	15,023				15,023	15,143	14,804
E	714.596,7058	714.601,1765	714.601,1765	714.601,9282	714.604,8913	714.610,8176	714.611,5591	714.611,5591	714.613,2869				714.614,7684	714.614,7684	714.615,2713
N	7.093.417,8955	7.093.417,1881	7.093.417,1881	7.093.417,0691	7.093.416,6003	7.093.415,6625	7.093.415,5452	7.093.415,5452	7.093.415,2718				7.093.415,0374	7.093.415,0374	7.093.414,9578
Estaca: 0+530															
Dist. eixo (m)	-10,392	-3,762	-3,762	-3,000	0,000	6,000	6,744	6,744	8,500				10,000	10,000	10,670
Cota (m)	14,704	15,048	13,668	13,683	13,763	13,843	13,853	15,148	15,123				15,123	15,243	14,797
E	714.596,0344	714.602,5828	714.602,5828	714.603,3358	714.606,2989	714.612,2252	714.612,9601	714.612,9601	714.614,6945				714.616,1760	714.616,1760	714.616,8373
N	7.093.427,1201	7.093.426,0840	7.093.426,0840	7.093.425,9648	7.093.425,4959	7.093.424,5582	7.093.424,4419	7.093.424,4419	7.093.424,1675				7.093.423,9330	7.093.423,9330	7.093.423,8284
Estaca: 0+533															
Dist. eixo (m)	-11,139	-3,763	-3,763	-3,000	0,000	6,000	6,742	6,742	8,500				10,000	10,000	10,614
Cota (m)	14,725	15,044	13,657	13,672	13,756	13,868	13,881	15,176	15,148				15,148	15,268	14,858
E	714.595,7962	714.603,0819	714.603,0819	714.603,8354	714.606,7985	714.612,7248	714.613,4574	714.613,4574	714.615,1941				714.616,6756	714.616,6756	714.617,2820
N	7.093.430,3942	7.093.429,2414	7.093.429,2414	7.093.429,1222	7.093.428,6533	7.093.427,7155	7.093.427,5996	7.093.427,5996	7.093.427,3248				7.093.427,0904	7.093.427,0904	7.093.426,9944
Estaca: 0+540															
Dist. eixo (m)				-3,000	0,000	6,000	6,737	6,737	8,500				10,000	10,000	10,564
Cota (m)				13,636	13,726	13,906	13,928	15,223	15,186				15,186	15,306	14,930
E				714.604,5009	714.607,4973	714.613,4901	714.614,2259	714.614,2259	714.615,9871				714.617,4853	714.617,4853	714.618,0489
N				7.093.435,5641	7.093.435,4174	7.093.435,1238	7.093.435,0878	7.093.435,0878	7.093.435,0015				7.093.434,9281	7.093.434,9281	7.093.434,9005
Estaca: 0+548															
Dist. eixo (m)				-3,000	0,000	6,000	6,737	6,737	8,500				10,000	10,000	10,029
Cota (m)				13,602	13,692	13,872	13,894	15,189	15,152				15,152	15,272	15,300
E				714.604,4144	714.607,4065	714.613,3907	714.614,1255	714.614,1255	714.615,8841				714.617,3801	714.617,3801	714.617,4087
N				7.093.442,8547	7.093.443,0724	7.093.443,5080	7.093.443,5614	7.093.443,5614	7.093.443,6894				7.093.443,7983	7.093.443,7983	7.093.443,8004
Estaca: 0+550															
Dist. eixo (m)	-8,900	-3,764	-3,764	-3,000	0,000	6,000	6,737	6,737	8,500				10,000	10,000	10,051
Cota (m)	14,672	14,955	13,576	13,591	13,681	13,861	13,883	15,178	15,141				15,141	15,261	15,312
E	714.598,3602	714.603,4827	714.603,4827	714.604,2446	714.607,2367	714.613,2209	714.613,9557	714.613,9557	714.615,7143				714.617,2103	714.617,2103	714.617,2611
N	7.093.444,7599	7.093.445,1327	7.093.445,1327	7.093.445,1882	7.093.445,4059	7.093.445,8414	7.093.445,8949	7.093.445,8949	7.093.446,0229				7.093.446,1318	7.093.446,1318	7.093.446,1355
Estaca: 0+558															
Dist. eixo (m)	-8,541	-3,764	-3,764	-3,000	0,000	6,000	6,737	6,737	8,500				10,000	10,000	10,339
Cota (m)	14,595	14,914	13,544	13,559	13,649	13,829	13,851	15,146	15,109				15,109	15,229	15,568
E	714.597,8764	714.602,5702	714.602,5702	714.603,3207	714.606,2682	714.612,1630	714.612,8869	714.612,8869	714.614,6192				714.616,0930	714.616,0930	714.616,4263
N	7.093.451,4076	7.093.452,2980	7.093.452,2980	7.093.452,4404	7.093.452,9995	7.093.454,1177	7.093.454,2550	7.093.454,2550	7.093.454,5836				7.093.454,8632	7.093.454,8632	7.093.454,9264
Estaca: 0+560															
Dist. eixo (m)	-8,269	-3,764	-3,764	-3,000	0,000	6,000	6,737	6,737	8,500				10,000	10,000	10,156
Cota (m)	14,593	14,908	13,539	13,554	13,644	13,824	13,846	15,141	15,104				15,104	15,224	15,380
E	714.597,7279	714.602,1200	714.602,1200	714.602,8647	714.605,7894	714.611,6387	714.612,3569	714.612,3569	714.614,0759				714.615,5382	714.615,5382	714.615,6905
N	7.093.453,4483	7.093.454,4518	7.093.454,4518	7.093.454,6220	7.093.455,2901	7.093.456,6265	7.093.456,7906	7.093.456,7906	7.093.457,1834				7.093.457,5175	7.093.457,5175	7.093.457,5523

PROJETO DE ENGENHARIA VIÁRIA
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NOTA DE SERVIÇO - EIXO 01

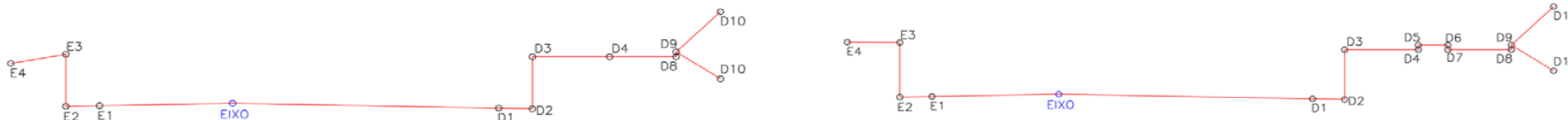
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Desenho Esquemático:



PONTOS NOTÁVEIS	E4	E3	E2	E1	EIXO	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10
Estaca: 0+565															
Dist. eixo (m)	-7,442	-3,764	-3,764	-3,000	0,000	6,815	7,552	7,552	9,434				11,005	11,005	11,171
Cota (m)	14,620	14,904	13,541	13,556	13,646	13,850	13,872	15,167	15,130				15,130	15,250	15,416
E	714.597,4113	714.600,9222	714.600,9222	714.601,6515	714.604,5155	714.611,0217	714.611,7250	714.611,7250	714.613,5213				714.615,0211	714.615,0211	714.615,1796
N	7.093.457,7979	7.093.458,8928	7.093.458,8928	7.093.459,1202	7.093.460,0133	7.093.462,0422	7.093.462,2615	7.093.462,2615	7.093.462,8217				7.093.463,2894	7.093.463,2894	7.093.463,3388
Estaca: 0+570															
Dist. eixo (m)	-6,259	-3,764	-3,764	-3,000	0,000	8,405	9,142	9,142	11,023				12,594	12,594	12,747
Cota (m)	14,665	14,903	13,551	13,566	13,656	13,908	13,930	15,225	15,188				15,188	15,308	15,460
E	714.597,0196	714.599,4019	714.599,4019	714.600,1312	714.602,9952	714.611,0190	714.611,7223	714.611,7223	714.613,5186				714.615,0184	714.615,0184	714.615,1640
N	7.093.463,0252	7.093.463,7681	7.093.463,7681	7.093.463,9955	7.093.464,8886	7.093.467,3907	7.093.467,6101	7.093.467,6101	7.093.468,1702				7.093.468,6379	7.093.468,6379	7.093.468,6833
Estaca: 0+580															
Dist. eixo (m)	-4,964	-3,764	-3,764	-3,000	0,000	9,000	9,737	9,737	11,500				13,000	13,000	13,124
Cota (m)	14,753	14,903	13,571	13,586	13,676	13,946	13,968	15,263	15,226				15,226	15,346	15,470
E	714.595,2797	714.596,4249	714.596,4249	714.597,1542	714.600,0181	714.608,6101	714.609,3134	714.609,3134	714.610,9967				714.612,4287	714.612,4287	714.612,5471
N	7.093.472,9575	7.093.473,3146	7.093.473,3146	7.093.473,5421	7.093.474,4352	7.093.477,1145	7.093.477,3338	7.093.477,3338	7.093.477,8587				7.093.478,3053	7.093.478,3053	7.093.478,3422
Estaca: 0+584															
Dist. eixo (m)	-4,900	-3,764	-3,764	-3,000	0,000	9,000	9,737	9,737	11,500				13,000	13,000	13,125
Cota (m)	14,788	14,918	13,579	13,594	13,684	13,954	13,976	15,271	15,234				15,234	15,354	15,479
E	714.594,1357	714.595,2202	714.595,2202	714.595,9495	714.598,8135	714.607,4054	714.608,1088	714.608,1088	714.609,7921				714.611,2241	714.611,2241	714.611,3431
N	7.093.476,8395	7.093.477,1777	7.093.477,1777	7.093.477,4051	7.093.478,2982	7.093.480,9775	7.093.481,1969	7.093.481,1969	7.093.481,7218				7.093.482,1683	7.093.482,1683	7.093.482,2055
Estaca: 0+590															
Dist. eixo (m)	-4,899	-3,764	-3,764	-3,000	0,000	6,000									
Cota (m)	14,844	14,946	13,591	13,606	13,696	13,876									
E	714.592,5378	714.593,6504	714.593,6504	714.594,3994	714.597,3409	714.603,2239									
N	7.093.483,1011	7.093.483,3241	7.093.483,3241	7.093.483,4743	7.093.484,0639	7.093.485,2432									
Estaca: 0+591															
Dist. eixo (m)	-4,900	-3,764	-3,764	-3,000	0,000	6,000									
Cota (m)	14,850	14,949	13,592	13,607	13,697	13,877									
E	714.592,4161	714.593,5322	714.593,5322	714.594,2828	714.597,2301	714.603,1247									
N	7.093.483,7174	7.093.483,9294	7.093.483,9294	7.093.484,0719	7.093.484,6317	7.093.485,7512									
Estaca: 0+597															
Dist. eixo (m)	-5,000	-3,764	-3,764	-3,000	0,000	6,000									
Cota (m)	14,762	14,930	13,605	13,620	13,710	13,890									
E	714.591,3946	714.592,6273	714.592,6273	714.593,3893	714.596,3812	714.602,3652									
N	7.093.490,7396	7.093.490,8298	7.093.490,8298	7.093.490,8856	7.093.491,1047	7.093.491,5429									
Estaca: 0+600															
Dist. eixo (m)	-5,000	-3,764	-3,764	-3,000	0,000	6,000									
Cota (m)	14,929	14,992	13,611	13,626	13,716	13,896									
E	714.591,1836	714.592,4163	714.592,4163	714.593,1782	714.596,1702	714.602,1542									
N	7.093.493,6214	7.093.493,7116	7.093.493,7116	7.093.493,7674	7.093.493,9865	7.093.494,4246									

PROJETO DE ENGENHARIA VIÁRIA
DUPLICAÇÃO DA AVENIDA SANTOS DUMONT
NOTA DE SERVIÇO - EIXO 01

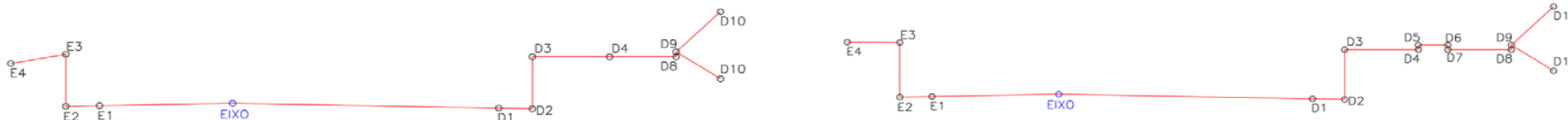
Local: Avenida Santos Dumont - Trecho entre Rua Dom Bosco e Av. Rolf Wiest

Município: Joinville/SC

Data: Junho/2024

Arquivo: RCV-10651-01-02-NS-01-A

Desenho Esquemático:



PONTOS NOTÁVEIS	E4	E3	E2	E1	EIXO	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10
Estaca: 0+610															
Dist. eixo (m)	-5,000	-3,764	-3,764	-3,000	0,000	6,000									
Cota (m)	14,956	15,014	13,631	13,646	13,736	13,916									
E	714.590,4533	714.591,6861	714.591,6861	714.592,4480	714.595,4400	714.601,4240									
N	7.093.503,5947	7.093.503,6849	7.093.503,6849	7.093.503,7407	7.093.503,9598	7.093.504,3979									
Estaca: 0+615															
Dist. eixo (m)	-5,000	-3,764	-3,764	-3,000	0,000	6,000	6,737	6,737	8,500				10,000	10,000	10,284
Cota (m)	14,995	15,034	13,640	13,655	13,745	13,925	13,948	15,243	15,205				15,205	15,325	15,609
E	714.590,0992	714.591,3320	714.591,3320	714.592,0939	714.595,0859	714.601,0698	714.601,8046	714.601,8046	714.603,5632				714.605,0592	714.605,0592	714.605,3420
N	7.093.508,4307	7.093.508,5210	7.093.508,5210	7.093.508,5768	7.093.508,7959	7.093.509,2340	7.093.509,2878	7.093.509,2878	7.093.509,4166				7.093.509,5261	7.093.509,5261	7.093.509,5469
Estaca: 0+620															
Dist. eixo (m)	-5,217	-3,974	-3,974	-3,210	0,000	6,000	6,737	6,737	8,500				10,000	10,000	10,308
Cota (m)	15,050	15,056	13,644	13,659	13,755	13,935	13,957	15,252	15,215				15,215	15,335	15,643
E	714.589,7201	714.590,9631	714.590,9631	714.591,7270	714.594,9368	714.600,9365	714.601,6732	714.601,6732	714.603,4363				714.604,9362	714.604,9362	714.605,2447
N	7.093.513,6082	7.093.513,5952	7.093.513,5952	7.093.513,5872	7.093.513,5537	7.093.513,4910	7.093.513,4834	7.093.513,4834	7.093.513,4649				7.093.513,4493	7.093.513,4493	7.093.513,4460
Estaca: 0+624															
Dist. eixo (m)	-5,875	-4,611	-4,611	-3,847	0,000	6,000	6,737	6,737	8,500				10,000	10,000	10,364
Cota (m)	15,123	15,074	13,634	13,649	13,764	13,944	13,967	15,262	15,224				15,224	15,344	15,708
E	714.589,3357	714.590,5944	714.590,5944	714.591,3550	714.595,1852	714.601,1587	714.601,8922	714.601,8922	714.603,6477				714.605,1411	714.605,1411	714.605,5034
N	7.093.518,8588	7.093.518,7401	7.093.518,7401	7.093.518,6684	7.093.518,3074	7.093.517,7443	7.093.517,6752	7.093.517,6752	7.093.517,5097				7.093.517,3690	7.093.517,3690	7.093.517,3348
Estaca: 0+630															
Dist. eixo (m)	-6,825	-5,560	-5,560	-4,796	0,000	6,000	6,737	6,737	8,500				10,000	10,000	10,454
Cota (m)	15,093	15,053	13,617	13,632	13,776	13,956	13,978	15,273	15,236				15,236	15,356	15,810
E	714.588,9189	714.590,1776	714.590,1776	714.590,9382	714.595,7134	714.601,6869	714.602,4204	714.602,4204	714.604,1758				714.605,6692	714.605,6692	714.606,1215
N	7.093.524,5509	7.093.524,4322	7.093.524,4322	7.093.524,3605	7.093.523,9104	7.093.523,3474	7.093.523,2782	7.093.523,2782	7.093.523,1128				7.093.522,9720	7.093.522,9720	7.093.522,9294
Estaca: 0+640															
Dist. eixo (m)	-8,511	-6,834	-6,834	-6,070	0,000	6,000	6,737	6,737	8,500				10,000	10,000	10,571
Cota (m)	15,283	15,093	13,602	13,617	13,799	13,979	14,001	15,296	15,259				15,259	15,379	15,950
E	714.588,1783	714.589,8480	714.589,8480	714.590,6086	714.596,6518	714.602,6253	714.603,3588	714.603,3588	714.605,1143				714.606,6077	714.606,6077	714.607,1758
N	7.093.534,6650	7.093.534,5076	7.093.534,5076	7.093.534,4359	7.093.533,8663	7.093.533,3032	7.093.533,2341	7.093.533,2341	7.093.533,0686				7.093.532,9279	7.093.532,9279	7.093.532,8743
Estaca: 0+650															
Dist. eixo (m)	-10,197	-7,264	-7,264	-6,500	0,000	6,000	6,737	6,737	8,500				10,000	10,000	10,787
Cota (m)	15,267	15,130	13,684	13,699	13,894	14,074	14,096	15,391	15,354				15,354	15,474	16,260
E	714.587,4377	714.590,3584	714.590,3584	714.591,1190	714.597,5902	714.603,5637	714.604,2972	714.604,2972	714.606,0527				714.607,5461	714.607,5461	714.608,3294
N	7.093.544,7791	7.093.544,5038	7.093.544,5038	7.093.544,4321	7.093.543,8222	7.093.543,2591	7.093.543,1900	7.093.543,1900	7.093.543,0245				7.093.542,8837	7.093.542,8837	7.093.542,8099
Estaca: 0+660															
Dist. eixo (m)	-11,810	-7,269	-7,269	-6,505	0,000	6,000	6,737	6,737	8,500				10,000	10,000	12,836
Cota (m)	15,305	15,282	13,664	13,679	14,074	14,254	14,276	15,571	15,534				15,534	15,654	18,490
E	714.586,7297	714.591,2502	714.591,2502	714.592,0108	714.598,4874	714.604,4609	714.605,1944	714.605,1944	714.606,9499				714.608,4433	714.608,4433	714.611,2666
N	7.093.554,4486	7.093.554,0225	7.093.554,0225	7.093.553,9508	7.093.553,3403	7.093.552,7773	7.093.552,7081	7.093.552,7081	7.093.552,5427				7.093.552,4019	7.093.552,4019	7.093.552,1358

PROJETO DE ENGENHARIA VIÁRIA
DUPLICAÇÃO DA AVENIDA SANTOS DUMONT
NOTA DE SERVIÇO - EIXO 01

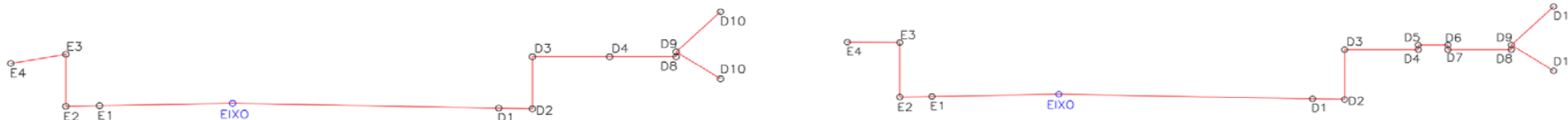
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Município: Joinville/SC

Data: Junho/2024

Arquivo: RCV-10651-01-02-NS-01-A

Desenho Esquemático:



PONTOS NOTÁVEIS	E4	E3	E2	E1	EIXO	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10
Estaca: 0+665															
Dist. eixo (m)	-12,347	-7,306	-7,306	-6,535	0,000	6,000	6,737	6,737	8,500				10,000	10,000	12,736
Cota (m)	15,334	15,322	13,906	13,921	14,212	14,392	14,414	15,709	15,672				15,672	15,792	18,528
E	714.586,4158	714.591,4565	714.591,4565	714.592,2273	714.598,7618	714.604,7618	714.605,4985	714.605,4985	714.607,2617				714.608,7616	714.608,7616	714.611,4975
N	7.093.558,7359	7.093.558,6845	7.093.558,6845	7.093.558,6766	7.093.558,6100	7.093.558,5488	7.093.558,5413	7.093.558,5413	7.093.558,5233				7.093.558,5080	7.093.558,5080	7.093.558,4801
Estaca: 0+670															
Dist. eixo (m)	-12,523	-7,285	-7,285	-6,507	0,000	6,000	6,737	6,737	8,500				10,000	10,000	12,594
Cota (m)	15,362	15,379	13,967	13,982	14,372	14,552	14,574	15,869	15,832				15,832	15,952	18,546
E	714.586,1131	714.591,3373	714.591,3373	714.592,1135	714.598,6034	714.604,5880	714.605,3228	714.605,3228	714.607,0816				714.608,5777	714.608,5777	714.611,1646
N	7.093.562,8699	7.093.563,2453	7.093.563,2453	7.093.563,3011	7.093.563,7674	7.093.564,1974	7.093.564,2502	7.093.564,2502	7.093.564,3765				7.093.564,4840	7.093.564,4840	7.093.564,6699
Estaca: 0+671															
Dist. eixo (m)	-12,522	-7,278	-7,278	-6,500	0,000	6,000	6,737	6,737	8,500				10,000	10,000	12,545
Cota (m)	15,371	15,422	14,013	14,028	14,418	14,598	14,621	15,916	15,878				15,878	15,998	18,544
E	714.586,0161	714.591,2457	714.591,2457	714.592,0218	714.598,5042	714.604,4879	714.605,2227	714.605,2227	714.606,9812				714.608,4771	714.608,4771	714.611,0153
N	7.093.564,1944	7.093.564,5799	7.093.564,5799	7.093.564,6371	7.093.565,1150	7.093.565,5561	7.093.565,6103	7.093.565,6103	7.093.565,7399				7.093.565,8502	7.093.565,8502	7.093.566,0373
Estaca: 0+680															
Dist. eixo (m)			-12,076	-3,000	0,000	6,000	6,737	6,737	8,500				10,000	10,000	12,049
Cota (m)			14,016	14,562	14,742	14,922	14,944	16,239	16,202				16,202	16,322	18,371
E			714.585,5267	714.594,4113	714.597,3481	714.603,2218	714.603,9430	714.603,9430	714.605,6691				714.607,1375	714.607,1375	714.609,1433
N			7.093.570,8785	7.093.572,7312	7.093.573,3436	7.093.574,5683	7.093.574,7187	7.093.574,7187	7.093.575,0787				7.093.575,3849	7.093.575,3849	7.093.575,8031
Estaca: 0+688															
Dist. eixo (m)	-10,704	-3,776	-3,776	-3,000	0,000	6,000	6,739	6,739	8,500				10,000	10,000	11,493
Cota (m)	15,462	16,287	14,952	14,967	15,133	15,277	15,295	16,590	16,557				16,557	16,677	18,170
E	714.585,0196	714.591,5563	714.591,5563	714.592,2885	714.595,1191	714.600,7805	714.601,4781	714.601,4781	714.603,1394				714.604,5548	714.604,5548	714.605,9636
N	7.093.577,8035	7.093.580,0978	7.093.580,0978	7.093.580,3548	7.093.581,3484	7.093.583,3356	7.093.583,5804	7.093.583,5804	7.093.584,1635				7.093.584,6603	7.093.584,6603	7.093.585,1548
Estaca: 0+690															
Dist. eixo (m)	-10,157	-3,774	-3,774	-3,000	0,000	6,000	6,741	6,741	8,500				10,000	10,000	11,269
Cota (m)	15,467	16,385	15,067	15,082	15,238	15,358	15,372	16,667	16,638				16,638	16,758	18,026
E	714.584,8670	714.590,8895	714.590,8895	714.591,6201	714.594,4508	714.600,1122	714.600,8115	714.600,8115	714.602,4711				714.603,8865	714.603,8865	714.605,0838
N	7.093.579,8885	7.093.582,0024	7.093.582,0024	7.093.582,2589	7.093.583,2524	7.093.585,2396	7.093.585,4850	7.093.585,4850	7.093.586,0676				7.093.586,5644	7.093.586,5644	7.093.586,9846
Estaca: 0+700															
Dist. eixo (m)				-3,000	0,000	6,000	6,750	6,750	8,500				10,000	10,000	10,655
Cota (m)				15,704	15,812	15,812	15,812	17,107	17,092				17,092	17,212	17,867
E				714.588,3082	714.591,1389	714.596,8003	714.597,5079	714.597,5079	714.599,1592				714.600,5745	714.600,5745	714.601,1924
N				7.093.591,6945	7.093.592,6881	7.093.594,6752	7.093.594,9236	7.093.594,9236	7.093.595,5032				7.093.596,0000	7.093.596,0000	7.093.596,2169
Estaca: 0+701															
Dist. eixo (m)				-3,000	0,000	6,000	6,751	6,751	8,500				10,000	10,000	10,616
Cota (m)				15,755	15,859	15,850	15,849	17,144	17,130				17,130	17,250	17,866
E				714.588,0447	714.590,8754	714.596,5368	714.597,2451	714.597,2451	714.598,8957				714.600,3110	714.600,3110	714.600,8923
N				7.093.592,4451	7.093.593,4387	7.093.595,4259	7.093.595,6745	7.093.595,6745	7.093.596,2539				7.093.596,7507	7.093.596,7507	7.093.596,9547

PROJETO DE ENGENHARIA VIÁRIA
DUPLICAÇÃO DA AVENIDA SANTOS DUMONT
NOTA DE SERVIÇO - EIXO 01

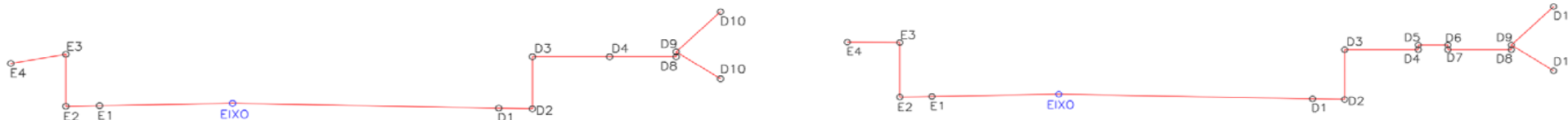
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Município: Joinville/SC

Data: Junho/2024

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Desenho Esquemático:



PONTOS NOTÁVEIS	E4	E3	E2	E1	EIXO	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10
Estaca: 0+708															
Dist. eixo (m)				-3,000	0,000	6,000	6,758	6,758	8,500				10,000	10,000	10,308
Cota (m)				16,239	16,307	16,207	16,195	17,490	17,487				17,487	17,607	17,915
E				714.585,9189	714.588,8559	714.594,7298	714.595,4715	714.595,4715	714.597,1773				714.598,6458	714.598,6458	714.598,9474
N				7.093.600,0833	7.093.600,6950	7.093.601,9183	7.093.602,0728	7.093.602,0728	7.093.602,4281				7.093.602,7339	7.093.602,7339	7.093.602,7967
Estaca: 0+710															
Dist. eixo (m)				-3,000	0,000	6,000	6,759	6,759	8,500				10,000	10,000	10,248
Cota (m)				16,340	16,400	16,280	16,264	17,559	17,560				17,560	17,680	17,927
E				714.585,5863	714.588,5399	714.594,4471	714.595,1945	714.595,1945	714.596,9085				714.598,3853	714.598,3853	714.598,6290
N				7.093.601,8061	7.093.602,3316	7.093.603,3827	7.093.603,5156	7.093.603,5156	7.093.603,8206				7.093.604,0834	7.093.604,0834	7.093.604,1267
Estaca: 0+716															
Dist. eixo (m)				-3,000	0,000	6,000	6,759	6,759	8,500				10,000	10,000	10,079
Cota (m)				16,633	16,693	16,573	16,558	17,853	17,853				17,853	17,973	18,052
E				714.584,8187	714.587,8107	714.593,7947	714.594,5518	714.594,5518	714.596,2880				714.597,7840	714.597,7840	714.597,8630
N				7.093.607,9351	7.093.608,1542	7.093.608,5924	7.093.608,6478	7.093.608,6478	7.093.608,7749				7.093.608,8845	7.093.608,8845	7.093.608,8903
Estaca: 0+720															
Dist. eixo (m)				-3,000	0,000	6,000	6,759	6,759					10,000	10,000	10,420
Cota (m)				16,810	16,870	16,750	16,735	18,030					18,030	18,150	18,570
E				714.584,5172	714.587,5092	714.593,4931	714.594,2502	714.594,2502					714.597,4825	714.597,4825	714.597,9015
N				7.093.612,0534	7.093.612,2725	7.093.612,7106	7.093.612,7661	7.093.612,7661					7.093.613,0028	7.093.613,0028	7.093.613,0334
Estaca: 0+730															
Dist. eixo (m)				-3,000	0,000	6,000	6,759	6,759					9,000	9,000	9,992
Cota (m)				17,138	17,198	17,078	17,063	18,358					18,358	18,478	19,470
E				714.583,7869	714.586,7789	714.592,7629	714.593,5200	714.593,5200					714.595,7549	714.595,7549	714.596,7440
N				7.093.622,0267	7.093.622,2458	7.093.622,6839	7.093.622,7394	7.093.622,7394					7.093.622,9030	7.093.622,9030	7.093.622,9755
Estaca: 0+740															
Dist. eixo (m)				-3,000	0,000	6,000	6,759	6,759					9,000	9,000	9,183
Cota (m)				17,324	17,384	17,264	17,248	18,543					18,544	18,664	18,846
E				714.583,0566	714.586,0486	714.592,0326	714.592,7897	714.592,7897					714.595,0246	714.595,0246	714.595,2068
N				7.093.632,0000	7.093.632,2191	7.093.632,6572	7.093.632,7127	7.093.632,7127					7.093.632,8763	7.093.632,8763	7.093.632,8897
Estaca: 0+750															
Dist. eixo (m)				-3,000	0,000	6,000	6,759	6,759					9,000	9,000	9,010
Cota (m)				17,367	17,427	17,307	17,292	18,587					18,587	18,707	18,700
E				714.582,3264	714.585,3184	714.591,3024	714.592,0594	714.592,0594					714.594,2943	714.594,2943	714.594,3048
N				7.093.641,9733	7.093.642,1924	7.093.642,6305	7.093.642,6860	7.093.642,6860					7.093.642,8496	7.093.642,8496	7.093.642,8504
Estaca: 0+760															
Dist. eixo (m)				-3,000	0,000	6,000	6,759	6,759					9,000	9,000	9,306
Cota (m)				17,268	17,328	17,208	17,192	18,487					18,488	18,608	18,914
E				714.581,5961	714.584,5881	714.590,5721	714.591,3292	714.591,3292					714.593,5641	714.593,5641	714.593,8698
N				7.093.651,9466	7.093.652,1657	7.093.652,6038	7.093.652,6593	7.093.652,6593					7.093.652,8229	7.093.652,8229	7.093.652,8453

PROJETO DE ENGENHARIA VIÁRIA
DUPLICAÇÃO DA AVENIDA SANTOS DUMONT
NOTA DE SERVIÇO - EIXO 01

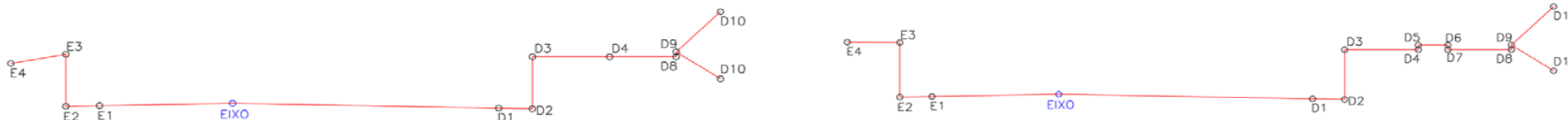
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Desenho Esquemático:



PONTOS NOTÁVEIS	E4	E3	E2	E1	EIXO	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10
Estaca: 0+770															
Dist. eixo (m)				-3,000	0,000	6,468	7,227	7,227					9,429	9,429	9,949
Cota (m)				17,026	17,086	16,957	16,942	18,237					18,237	18,357	18,877
E				714.580,8659	714.583,8579	714.590,3089	714.591,0660	714.591,0660					714.593,2614	714.593,2614	714.593,7805
N				7.093.661,9199	7.093.662,1390	7.093.662,6114	7.093.662,6668	7.093.662,6668					7.093.662,8275	7.093.662,8275	7.093.662,8655
Estaca: 0+780															
Dist. eixo (m)				-3,000	0,000	6,000									
Cota (m)				16,654	16,714	16,594									
E				714.580,1356	714.583,1276	714.589,1116									
N				7.093.671,8932	7.093.672,1123	7.093.672,5504									
Estaca: 0+790															
Dist. eixo (m)				-3,000	0,000	7,193	7,952	7,952					10,528	10,528	11,191
Cota (m)				16,257	16,317	16,174	16,158	17,453					17,454	17,574	17,131
E				714.579,4053	714.582,3973	714.589,5715	714.590,3286	714.590,3286					714.592,8967	714.592,8967	714.593,5584
N				7.093.681,8665	7.093.682,0856	7.093.682,6109	7.093.682,6663	7.093.682,6663					7.093.682,8544	7.093.682,8544	7.093.682,9028
Estaca: 0+800															
Dist. eixo (m)				-3,000	0,000	6,000	6,759	6,759					9,000	9,000	9,460
Cota (m)				15,893	15,953	15,833	15,818	17,113					17,113	17,233	16,927
E				714.578,6751	714.581,6671	714.587,6511	714.588,4081	714.588,4081					714.590,6430	714.590,6430	714.591,1014
N				7.093.691,8398	7.093.692,0589	7.093.692,4970	7.093.692,5525	7.093.692,5525					7.093.692,7161	7.093.692,7161	7.093.692,7497
Estaca: 0+810															
Dist. eixo (m)				-3,000	0,000	6,000	6,759	6,759					9,000	9,000	9,008
Cota (m)				15,594	15,654	15,534	15,519	16,814					16,814	16,934	16,929
E				714.577,9448	714.580,9368	714.586,9208	714.587,6779	714.587,6779					714.589,9128	714.589,9128	714.589,9209
N				7.093.701,8131	7.093.702,0322	7.093.702,4704	7.093.702,5258	7.093.702,5258					7.093.702,6894	7.093.702,6894	7.093.702,6900
Estaca: 0+820															
Dist. eixo (m)				-3,000	0,000	6,000	6,759	6,759					9,000	9,000	9,565
Cota (m)				15,327	15,387	15,267	15,252	16,547					16,547	16,667	17,233
E				714.577,2146	714.580,2066	714.586,1905	714.586,9476	714.586,9476					714.589,1825	714.589,1825	714.589,7464
N				7.093.711,7864	7.093.712,0055	7.093.712,4437	7.093.712,4991	7.093.712,4991					7.093.712,6627	7.093.712,6627	7.093.712,7040
Estaca: 0+830															
Dist. eixo (m)				-3,000	0,000	6,000	6,759	6,759					9,000	9,000	9,768
Cota (m)				15,061	15,121	15,001	14,986	16,281					16,281	16,401	17,168
E				714.576,4843	714.579,4763	714.585,4603	714.586,2174	714.586,2174					714.588,4523	714.588,4523	714.589,2178
N				7.093.721,7597	7.093.721,9788	7.093.722,4170	7.093.722,4724	7.093.722,4724					7.093.722,6360	7.093.722,6360	7.093.722,6921
Estaca: 0+840															
Dist. eixo (m)				-3,000	0,000	6,000	6,759	6,759	8,500	8,500	9,200	9,200	10,700	10,700	11,428
Cota (m)				14,794	14,854	14,734	14,719	16,014	16,014	16,134	16,134	16,014	16,014	16,134	16,862
E				714.575,7540	714.578,7460	714.584,7300	714.585,4871	714.587,2233	714.587,2233	714.587,2233	714.587,9213	714.587,9213	714.589,4175	714.589,4175	714.590,1439
N				7.093.731,7330	7.093.731,9521	7.093.732,3903	7.093.732,4457	7.093.732,4457	7.093.732,5728	7.093.732,5728	7.093.732,6239	7.093.732,6239	7.093.732,7335	7.093.732,7335	7.093.732,7867

PROJETO DE ENGENHARIA VIÁRIA
DUPLICAÇÃO DA AVENIDA SANTOS DUMONT
NOTA DE SERVIÇO - EIXO 01

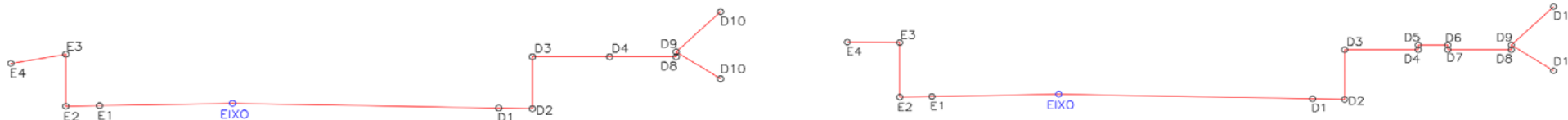
Local: Avenida Santos Dumont - Trecho entre Rua Dom Bosco e Av. Rolf Wiest

Data: Junho/2024

Município: Joinville/SC

Arquivo: RCV-10651-01-02-NS-01-A

Desenho Esquemático:



PONTOS NOTÁVEIS	E4	E3	E2	E1	EIXO	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10
Estaca: 0+850															
Dist. eixo (m)				-3,000	0,000	6,000	6,759	6,759	8,500	8,500	9,200	9,200	10,700	10,700	11,316
Cota (m)				14,527	14,587	14,467	14,452	15,747	15,747	15,867	15,867	15,747	15,747	15,867	16,483
E				714.575,0238	714.578,0158	714.583,9998	714.584,7568	714.584,7568	714.586,4931	714.586,4931	714.587,1910	714.587,1910	714.588,6872	714.588,6872	714.589,3011
N				7.093.741,7063	7.093.741,9254	7.093.742,3636	7.093.742,4190	7.093.742,4190	7.093.742,5461	7.093.742,5461	7.093.742,5972	7.093.742,5972	7.093.742,7068	7.093.742,7068	7.093.742,7517
Estaca: 0+860															
Dist. eixo (m)	-5,000	-3,761	-3,761	-3,000	0,000	6,000	6,752	6,752	8,500	8,500	9,200	9,200	10,700	10,700	11,541
Cota (m)	14,932	15,401	14,236	14,251	14,321	14,301	14,298	15,593	15,581	15,701	15,701	15,581	15,581	15,701	16,542
E	714.572,2989	714.573,5347	714.573,5347	714.574,2935	714.577,2855	714.583,2695	714.584,0190	714.584,0190	714.585,7628	714.585,7628	714.586,4607	714.586,4607	714.587,9569	714.587,9569	714.588,7958
N	7.093.751,5336	7.093.751,6241	7.093.751,6241	7.093.751,6796	7.093.751,8987	7.093.752,3369	7.093.752,3917	7.093.752,3917	7.093.752,5194	7.093.752,5194	7.093.752,5705	7.093.752,5705	7.093.752,6801	7.093.752,6801	7.093.752,7415
Estaca: 0+870															
Dist. eixo (m)	-5,000	-3,762	-3,762	-3,000	0,000	6,000	6,744	6,744	8,500	8,500	9,200	9,200	10,700	10,700	12,218
Cota (m)	14,851	15,192	13,959	13,974	14,054	14,134	14,144	15,439	15,414	15,534	15,534	15,414	15,414	15,534	17,052
E	714.571,5686	714.572,8029	714.572,8029	714.573,5633	714.576,5552	714.582,5392	714.583,2813	714.583,2813	714.585,0326	714.585,0326	714.585,7305	714.585,7305	714.587,2267	714.587,2267	714.588,7409
N	7.093.761,5069	7.093.761,5972	7.093.761,5972	7.093.761,6529	7.093.761,8720	7.093.762,3102	7.093.762,3645	7.093.762,3645	7.093.762,4927	7.093.762,4927	7.093.762,5438	7.093.762,5438	7.093.762,6534	7.093.762,6534	7.093.762,7642
Estaca: 0+880															
Dist. eixo (m)	-5,000	-3,764	-3,764	-3,000	0,000	6,000	6,737	6,737	8,500	8,500	9,200	9,200	10,700	10,700	12,379
Cota (m)	14,751	14,984	13,695	13,710	13,800	13,980	14,002	15,297	15,260	15,380	15,380	15,260	15,260	15,380	17,059
E	714.570,8383	714.572,0711	714.572,0711	714.572,8330	714.575,8250	714.581,8090	714.582,5437	714.582,5437	714.584,3023	714.584,3023	714.585,0002	714.585,0002	714.586,4964	714.586,4964	714.588,1713
N	7.093.771,4802	7.093.771,5704	7.093.771,5704	7.093.771,6262	7.093.771,8453	7.093.772,2835	7.093.772,3373	7.093.772,3373	7.093.772,4660	7.093.772,4660	7.093.772,5171	7.093.772,5171	7.093.772,6267	7.093.772,6267	7.093.772,7493
Estaca: 0+890															
Dist. eixo (m)	-5,000	-3,764	-3,764	-3,000	0,000	6,000	6,737	6,737	8,500	8,500	9,200	9,200	10,700	10,700	12,412
Cota (m)	14,645	14,817	13,494	13,509	13,599	13,779	13,801	15,096	15,059	15,179	15,179	15,059	15,059	15,179	16,891
E	714.570,1081	714.571,3408	714.571,3408	714.572,1027	714.575,0947	714.581,0787	714.581,8135	714.581,8135	714.583,5720	714.583,5720	714.584,2700	714.584,2700	714.585,7662	714.585,7662	714.587,4737
N	7.093.781,4535	7.093.781,5437	7.093.781,5437	7.093.781,5995	7.093.781,8186	7.093.782,2568	7.093.782,3106	7.093.782,3106	7.093.782,4393	7.093.782,4393	7.093.782,4904	7.093.782,4904	7.093.782,6000	7.093.782,6000	7.093.782,7250
Estaca: 0+900															
Dist. eixo (m)	-5,000	-3,764	-3,764	-3,000	0,000	6,000	6,737	6,737	8,500	8,500	9,200	9,200	10,700	10,700	11,208
Cota (m)	14,532	14,683	13,350	13,365	13,455	13,635	13,657	14,952	14,915	15,035	15,035	14,915	14,915	15,035	14,696
E	714.569,3778	714.570,6106	714.570,6106	714.571,3725	714.574,3645	714.580,3484	714.581,0832	714.581,0832	714.582,8418	714.582,8418	714.583,5397	714.583,5397	714.585,0359	714.585,0359	714.585,5429
N	7.093.791,4268	7.093.791,5170	7.093.791,5170	7.093.791,5728	7.093.791,7919	7.093.792,2301	7.093.792,2839	7.093.792,2839	7.093.792,4126	7.093.792,4126	7.093.792,4637	7.093.792,4637	7.093.792,5733	7.093.792,5733	7.093.792,6104
Estaca: 0+910															
Dist. eixo (m)	-5,000	-3,764	-3,764	-3,000	0,000	6,000	6,737	6,737	8,500	8,500	9,200	9,200	10,700	10,700	10,776
Cota (m)	14,429	14,591	13,263	13,278	13,368	13,548	13,570	14,865	14,828	14,948	14,948	14,828	14,828	14,948	15,023
E	714.568,6476	714.569,8803	714.569,8803	714.570,6422	714.573,6342	714.579,6182	714.580,3530	714.580,3530	714.582,1115	714.582,1115	714.582,8094	714.582,8094	714.584,3056	714.584,3056	714.584,3811
N	7.093.801,4001	7.093.801,4903	7.093.801,4903	7.093.801,5461	7.093.801,7652	7.093.802,2034	7.093.802,2572	7.093.802,2572	7.093.802,3859	7.093.802,3859	7.093.802,4370	7.093.802,4370	7.093.802,5466	7.093.802,5466	7.093.802,5521
Estaca: 0+913															
Dist. eixo (m)	-5,000	-3,764	-3,764	-3,000	0,000	6,000	6,737	6,737	8,500	8,500	9,200	9,200	10,700	10,700	10,821
Cota (m)	14,397	14,569	13,247	13,262	13,352	13,532	13,554	14,849	14,812	14,932	14,932	14,812	14,812	14,932	15,053
E	714.568,4173	714.569,6500	714.569,6500	714.570,4119	714.573,4039	714.579,3879	714.580,1227	714.580,1227	714.581,8812	714.581,8812	714.582,5791	714.582,5791	714.584,0753	714.584,0753	714.584,1964
N	7.093.804,5453	7.093.804,6356	7.093.804,6356	7.093.804,6913	7.093.804,9104	7.093.805,3486	7.093.805,4024	7.093.805,4024	7.093.805,5311	7.093.805,5311	7.093.805,5822	7.093.805,5822	7.093.805,6918	7.093.805,6918	7.093.805,7007

PROJETO DE ENGENHARIA VIÁRIA
DUPLICAÇÃO DA AVENIDA SANTOS DUMONT
NOTA DE SERVIÇO - EIXO 01

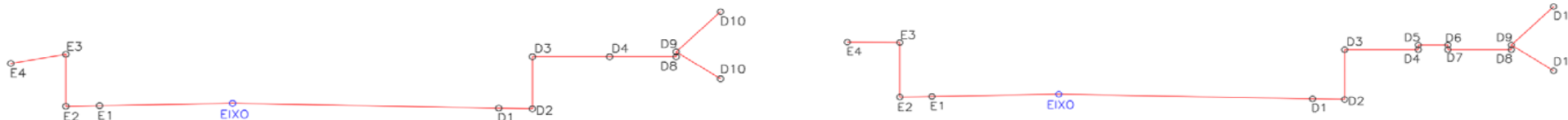
Local: Avenida Santos Dumont - Trecho entre Rua Dom Bosco e Av. Rolf Wiest

Município: Joinville/SC

Data: Junho/2024

Arquivo: RCV-10651-01-02-NS-01-A

Desenho Esquemático:



PONTOS NOTÁVEIS	E4	E3	E2	E1	EIXO	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10
Estaca: 0+920															
Dist. eixo (m)	-5,000	-3,764	-3,764	-3,000	0,000	6,000	6,737	6,737	8,500	8,500	9,200	9,200	10,700	10,700	10,908
Cota (m)	14,329	14,528	13,220	13,235	13,325	13,505	13,527	14,822	14,785	14,905	14,905	14,785	14,785	14,905	14,766
E	714.567,9194	714.569,1522	714.569,1522	714.569,9141	714.572,9063	714.578,8906	714.579,6254	714.579,6254	714.581,3840	714.581,3840	714.582,0820	714.582,0820	714.583,5783	714.583,5783	714.583,7856
N	7.093.811,3770	7.093.811,4664	7.093.811,4664	7.093.811,5216	7.093.811,7387	7.093.812,1727	7.093.812,2260	7.093.812,2260	7.093.812,3536	7.093.812,3536	7.093.812,4042	7.093.812,4042	7.093.812,5127	7.093.812,5127	7.093.812,5278
Estaca: 0+930															
Dist. eixo (m)	-5,000	-3,764	-3,764	-3,000	0,000	6,000	6,737	6,737	8,500	8,500	9,200	9,200	10,700	10,700	10,822
Cota (m)	14,229	14,467	13,181	13,196	13,286	13,466	13,488	14,783	14,746	14,866	14,866	14,746	14,746	14,866	14,784
E	714.567,2006	714.568,4335	714.568,4335	714.569,1955	714.572,1879	714.578,1726	714.578,9074	714.578,9074	714.580,6662	714.580,6662	714.581,3642	714.581,3642	714.582,8606	714.582,8606	714.582,9821
N	7.093.821,3561	7.093.821,4443	7.093.821,4443	7.093.821,4988	7.093.821,7128	7.093.822,1409	7.093.822,1935	7.093.822,1935	7.093.822,3193	7.093.822,3193	7.093.822,3692	7.093.822,3692	7.093.822,4762	7.093.822,4762	7.093.822,4849
Estaca: 0+932															
Dist. eixo (m)	-5,000	-3,764	-3,764	-3,000	0,000	6,000	6,737	6,737	8,500	8,500	9,200	9,200	10,700	10,700	10,886
Cota (m)	14,209	14,455	13,172	13,187	13,277	13,457	13,479	14,774	14,737	14,857	14,857	14,737	14,737	14,857	14,733
E	714.567,0475	714.568,2804	714.568,2804	714.569,0424	714.572,0348	714.578,0196	714.578,7545	714.578,7545	714.580,5133	714.580,5133	714.581,2113	714.581,2113	714.582,7077	714.582,7077	714.582,8937
N	7.093.823,5002	7.093.823,5881	7.093.823,5881	7.093.823,6425	7.093.823,8559	7.093.824,2826	7.093.824,3350	7.093.824,3350	7.093.824,4605	7.093.824,4605	7.093.824,5102	7.093.824,5102	7.093.824,6169	7.093.824,6169	7.093.824,6302
Estaca: 0+940															
Dist. eixo (m)	-5,000	-3,764	-3,764	-3,000	0,000	6,000	6,737	6,737	8,500	8,500	9,200	9,200	10,700	10,700	10,971
Cota (m)	14,133	14,408	13,141	13,156	13,246	13,426	13,448	14,743	14,706	14,826	14,826	14,706	14,706	14,826	14,646
E	714.566,4918	714.567,7248	714.567,7248	714.568,4868	714.571,4794	714.577,4645	714.578,1995	714.578,1995	714.579,9583	714.579,9583	714.580,6564	714.580,6564	714.582,1529	714.582,1529	714.582,4233
N	7.093.831,3360	7.093.831,4229	7.093.831,4229	7.093.831,4767	7.093.831,6877	7.093.832,1098	7.093.832,1616	7.093.832,1616	7.093.832,2856	7.093.832,2856	7.093.832,3349	7.093.832,3349	7.093.832,4404	7.093.832,4404	7.093.832,4595
Estaca: 0+950															
Dist. eixo (m)	-5,000	-3,764	-3,764	-3,000	0,000	6,000	6,737	6,737	8,500	8,500	9,200	9,200	10,700	10,700	11,081
Cota (m)	14,037	14,349	13,102	13,117	13,207	13,387	13,409	14,704	14,667	14,787	14,787	14,667	14,667	14,787	14,533
E	714.565,7930	714.567,0261	714.567,0261	714.567,7882	714.570,7809	714.576,7665	714.577,5015	714.577,5015	714.579,2605	714.579,2605	714.579,9586	714.579,9586	714.581,4552	714.581,4552	714.581,8356
N	7.093.841,3165	7.093.841,4023	7.093.841,4023	7.093.841,4552	7.093.841,6633	7.093.842,0794	7.093.842,1305	7.093.842,1305	7.093.842,2527	7.093.842,2527	7.093.842,3013	7.093.842,3013	7.093.842,4053	7.093.842,4053	7.093.842,4317
Estaca: 0+951															
Dist. eixo (m)	-5,000	-3,764	-3,764	-3,000	0,000	6,000	6,737	6,737	8,500	8,500	9,200	9,200	10,700	10,700	11,119
Cota (m)	14,026	14,343	13,097	13,112	13,202	13,382	13,405	14,700	14,662	14,782	14,782	14,662	14,662	14,782	14,503
E	714.565,7137	714.566,9468	714.566,9468	714.567,7089	714.570,7017	714.576,6873	714.577,4223	714.577,4223	714.579,1813	714.579,1813	714.579,8794	714.579,8794	714.581,3760	714.581,3760	714.581,7941
N	7.093.842,4577	7.093.842,5433	7.093.842,5433	7.093.842,5962	7.093.842,8039	7.093.843,2193	7.093.843,2703	7.093.843,2703	7.093.843,3923	7.093.843,3923	7.093.843,4408	7.093.843,4408	7.093.843,5447	7.093.843,5447	7.093.843,5737
Estaca: 0+960															
Dist. eixo (m)	-5,000	-3,764	-3,764	-3,000	0,000	6,000	6,737	6,737	8,500	8,500	9,200	9,200	10,700	10,700	11,406
Cota (m)	13,941	14,290	13,063	13,078	13,168	13,348	13,370	14,665	14,628	14,748	14,748	14,628	14,628	14,748	14,277
E	714.564,4082	714.566,3336	714.566,3336	714.567,0957	714.570,0885	714.576,0742	714.576,8091	714.576,8091	714.578,5682	714.578,5682	714.579,2663	714.579,2663	714.580,7629	714.580,7629	714.581,4669
N	7.093.851,2931	7.093.851,3787	7.093.851,3787	7.093.851,4316	7.093.851,6393	7.093.852,0547	7.093.852,1057	7.093.852,1057	7.093.852,2278	7.093.852,2278	7.093.852,2762	7.093.852,2762	7.093.852,3801	7.093.852,3801	7.093.852,4289
Estaca: 0+970															
Dist. eixo (m)	-5,000	-3,764	-3,764	-3,000	0,000	6,000	6,737	6,737	8,500	8,500	9,200	9,200	10,700	10,700	12,902
Cota (m)	13,826	14,224	13,023	13,038	13,128	13,308	13,330	14,625	14,588	14,708	14,708	14,588	14,588	14,708	13,241
E	714.564,4082	714.565,6413	714.565,6413	714.566,4034	714.569,3962	714.575,3818	714.576,1168	714.576,1168	714.577,8758	714.577,8758	714.578,5739	714.578,5739	714.580,0705	714.580,0705	714.582,2669
N	7.093.861,2691	7.093.861,3547	7.093.861,3547	7.093.861,4076	7.093.861,6153	7.093.862,0307	7.093.862,0817	7.093.862,0817	7.093.862,2038	7.093.862,2038	7.093.862,2522	7.093.862,2522	7.093.862,3561	7.093.862,3561	7.093.862,5085

PROJETO DE ENGENHARIA VIÁRIA
DUPLICAÇÃO DA AVENIDA SANTOS DUMONT
NOTA DE SERVIÇO - EIXO 01

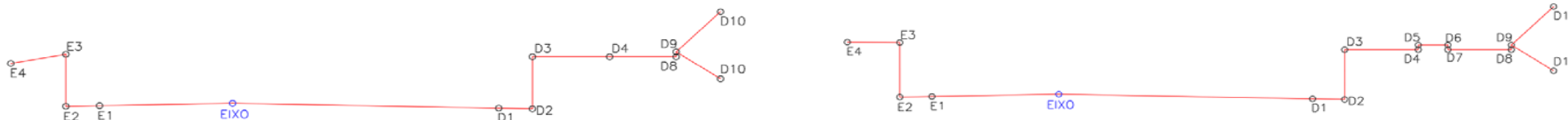
Local: Avenida Santos Dumont - Trecho entre Rua Dom Bosco e Av. Rolf Wiest

Município: Joinville/SC

Data: Junho/2024

Arquivo: RCV-10651-01-02-NS-01-A

Desenho Esquemático:



PONTOS NOTÁVEIS	E4	E3	E2	E1	EIXO	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10
Estaca: 0+980															
Dist. eixo (m)	-5,000	-3,764	-3,764	-3,000	0,000	6,000	6,737	6,737	8,500	8,500	9,200	9,200	10,700	10,700	10,854
Cota (m)	13,727	14,163	12,982	12,997	13,087	13,267	13,289	14,584	14,547	14,667	14,667	14,547	14,547	14,667	14,821
E	714.563,7159	714.564,9490	714.564,9490	714.565,7111	714.568,7039	714.574,6895	714.575,4245	714.575,4245	714.577,1835	714.577,1835	714.577,8816	714.577,8816	714.579,3782	714.579,3782	714.579,5318
N	7.093.871,2451	7.093.871,3307	7.093.871,3307	7.093.871,3836	7.093.871,5913	7.093.872,0067	7.093.872,0577	7.093.872,0577	7.093.872,1798	7.093.872,1798	7.093.872,2282	7.093.872,2282	7.093.872,3321	7.093.872,3321	7.093.872,3427
Estaca: 0+990															
Dist. eixo (m)	-5,000	-3,764	-3,764	-3,000	0,000	6,000	6,737	6,737	8,500	8,500	9,200	9,200	10,700	10,700	11,050
Cota (m)	13,675	14,097	12,909	12,924	13,014	13,194	13,216	14,511	14,474	14,594	14,594	14,474	14,474	14,594	14,944
E	714.563,0236	714.564,2566	714.564,2566	714.565,0188	714.568,0116	714.573,9972	714.574,7321	714.574,7321	714.576,4912	714.576,4912	714.577,1893	714.577,1893	714.578,6859	714.578,6859	714.579,0351
N	7.093.881,2211	7.093.881,3067	7.093.881,3067	7.093.881,3596	7.093.881,5673	7.093.881,9827	7.093.882,0337	7.093.882,0337	7.093.882,1558	7.093.882,1558	7.093.882,2042	7.093.882,2042	7.093.882,3081	7.093.882,3081	7.093.882,3323
Estaca: 1+000															
Dist. eixo (m)	-5,000	-3,764	-3,764	-3,000	0,000	6,000	6,737	6,737	8,500	8,500	9,200	9,200	10,700	10,700	11,360
Cota (m)	13,646	14,013	12,796	12,811	12,901	13,081	13,103	14,398	14,361	14,481	14,481	14,361	14,361	14,481	15,141
E	714.562,3312	714.563,5643	714.563,5643	714.564,3264	714.567,3192	714.573,3048	714.574,0398	714.574,0398	714.575,7988	714.575,7988	714.576,4970	714.576,4970	714.577,9936	714.577,9936	714.578,6518
N	7.093.891,1971	7.093.891,2827	7.093.891,2827	7.093.891,3356	7.093.891,5433	7.093.891,9587	7.093.892,0097	7.093.892,0097	7.093.892,1318	7.093.892,1318	7.093.892,1802	7.093.892,1802	7.093.892,2841	7.093.892,2841	7.093.892,3298
Estaca: 1+010															
Dist. eixo (m)	-5,000	-3,764	-3,764	-3,000	0,000	6,000	6,737	6,737	8,500	8,500	9,200	9,200	10,700	10,700	10,848
Cota (m)	13,513	13,887	12,673	12,688	12,778	12,958	12,980	14,275	14,238	14,358	14,358	14,238	14,238	14,358	14,507
E	714.561,6389	714.562,8720	714.562,8720	714.563,6341	714.566,6269	714.572,6125	714.573,3475	714.573,3475	714.575,1065	714.575,1065	714.575,8046	714.575,8046	714.577,3012	714.577,3012	714.577,4491
N	7.093.901,1731	7.093.901,2587	7.093.901,2587	7.093.901,3116	7.093.901,5193	7.093.901,9347	7.093.901,9857	7.093.901,9857	7.093.902,1078	7.093.902,1078	7.093.902,1562	7.093.902,1562	7.093.902,2601	7.093.902,2601	7.093.902,2704
Estaca: 1+020															
Dist. eixo (m)	-5,000	-3,764	-3,764	-3,000	0,000	6,000	6,737	6,737	8,500	8,500	9,200	9,200	10,700	10,700	10,745
Cota (m)	13,398	13,768	12,551	12,566	12,656	12,836	12,858	14,153	14,116	14,236	14,236	14,116	14,116	14,236	14,206
E	714.560,9466	714.562,1797	714.562,1797	714.562,9418	714.565,9346	714.571,9202	714.572,6551	714.572,6551	714.574,4142	714.574,4142	714.575,1123	714.575,1123	714.576,6089	714.576,6089	714.576,6537
N	7.093.911,1491	7.093.911,2347	7.093.911,2347	7.093.911,2876	7.093.911,4953	7.093.911,9107	7.093.911,9617	7.093.911,9617	7.093.912,0838	7.093.912,0838	7.093.912,1322	7.093.912,1322	7.093.912,2361	7.093.912,2361	7.093.912,2392
Estaca: 1+030															
Dist. eixo (m)	-5,000	-3,764	-3,764	-3,000	0,000	6,000	6,737	6,737	8,500	8,500	9,200	9,200	10,700	10,700	10,858
Cota (m)	13,312	13,658	12,428	12,443	12,533	12,713	12,735	14,030	13,993	14,113	14,113	13,993	13,993	14,113	14,271
E	714.560,2542	714.561,4873	714.561,4873	714.562,2494	714.565,2422	714.571,2278	714.571,9628	714.571,9628	714.573,7219	714.573,7219	714.574,4200	714.574,4200	714.575,9166	714.575,9166	714.576,0738
N	7.093.921,1252	7.093.921,2107	7.093.921,2107	7.093.921,2636	7.093.921,4713	7.093.921,8867	7.093.921,9377	7.093.921,9377	7.093.922,0598	7.093.922,0598	7.093.922,1082	7.093.922,1082	7.093.922,2121	7.093.922,2121	7.093.922,2230
Estaca: 1+039															
Dist. eixo (m)	-5,000	-3,764	-3,764	-3,000	0,000	6,000	6,737	6,737	8,500	8,500	9,200	9,200	10,700	10,700	10,918
Cota (m)	13,229	13,553	12,312	12,327	12,417	12,597	12,619	13,914	13,877	13,997	13,997	13,877	13,877	13,997	14,215
E	714.559,5976	714.560,8306	714.560,8306	714.561,5928	714.564,5856	714.570,5712	714.571,3061	714.571,3061	714.573,0652	714.573,0652	714.573,7633	714.573,7633	714.575,2599	714.575,2599	714.575,4776
N	7.093.930,5875	7.093.930,6731	7.093.930,6731	7.093.930,7260	7.093.930,9337	7.093.931,3491	7.093.931,4001	7.093.931,4001	7.093.931,5222	7.093.931,5222	7.093.931,5706	7.093.931,5706	7.093.931,6745	7.093.931,6745	7.093.931,6896
Estaca: 1+040															
Dist. eixo (m)	-5,000	-3,764	-3,764	-3,000	0,000	6,000	6,737	6,737	8,500	8,500	9,200	9,200	10,700	10,700	10,908
Cota (m)	13,230	13,549	12,306	12,321	12,411	12,591	12,613	13,908	13,871	13,991	13,991	13,871	13,871	13,991	14,199
E	714.559,5618	714.560,7950	714.560,7950	714.561,5572	714.564,5503	714.570,5364	714.571,2714	714.571,2714	714.573,0306	714.573,0306	714.573,7288	714.573,7288	714.575,2256	714.575,2256	714.575,4333
N	7.093.931,1078	7.093.931,1917	7.093.931,1917	7.093.931,2436	7.093.931,4473	7.093.931,8548	7.093.931,9049	7.093.931,9049	7.093.932,0246	7.093.932,0246	7.093.932,0722	7.093.932,0722	7.093.932,1740	7.093.932,1740	7.093.932,1882

PROJETO DE ENGENHARIA VIÁRIA
DUPLICAÇÃO DA AVENIDA SANTOS DUMONT
NOTA DE SERVIÇO - EIXO 01

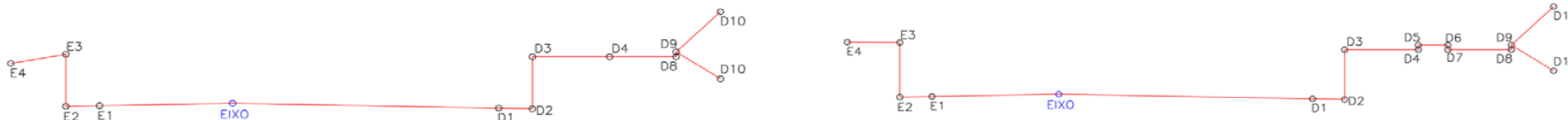
Local: Avenida Santos Dumont - Trecho entre Rua Dom Bosco e Av. Rolf Wiest

Município: Joinville/SC

Data: Junho/2024

Arquivo: RCV-10651-01-02-NS-01-A

Desenho Esquemático:



PONTOS NOTÁVEIS	E4	E3	E2	E1	EIXO	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10
Estaca: 1+048															
Dist. eixo (m)	-5,000	-3,764	-3,764	-3,000	0,000	6,000	6,737	6,737	8,500	8,500	9,200	9,200	10,700	10,700	10,731
Cota (m)	13,147	13,454	12,204	12,219	12,309	12,489	12,511	13,806	13,769	13,889	13,889	13,769	13,769	13,889	13,920
E	714.559,0798	714.560,3145	714.560,3145	714.561,0776	714.564,0744	714.570,0678	714.570,8038	714.570,8038	714.572,5651	714.572,5651	714.573,2642	714.573,2642	714.574,7627	714.574,7627	714.574,7937
N	7.093.939,5075	7.093.939,5652	7.093.939,5652	7.093.939,6008	7.093.939,7408	7.093.940,0207	7.093.940,0550	7.093.940,0550	7.093.940,1373	7.093.940,1373	7.093.940,1699	7.093.940,1699	7.093.940,2399	7.093.940,2399	7.093.940,2414
Estaca: 1+050															
Dist. eixo (m)	-5,000	-3,764	-3,764	-3,000	0,000	6,000	6,737	6,737	8,500	8,500	9,200	9,200	10,700	10,700	10,706
Cota (m)	13,136	13,437	12,183	12,198	12,288	12,468	12,491	13,786	13,748	13,868	13,868	13,748	13,748	13,868	13,864
E	714.559,0036	714.560,2385	714.560,2385	714.561,0018	714.563,9991	714.569,9937	714.570,7298	714.570,7298	714.572,4915	714.572,4915	714.573,1906	714.573,1906	714.574,6895	714.574,6895	714.574,6956
N	7.093.941,2203	7.093.941,2726	7.093.941,2726	7.093.941,3049	7.093.941,4319	7.093.941,6858	7.093.941,7169	7.093.941,7169	7.093.941,7915	7.093.941,7915	7.093.941,8212	7.093.941,8212	7.093.941,8846	7.093.941,8846	7.093.941,8849
Estaca: 1+057															
Dist. eixo (m)	-5,000	-3,764	-3,764	-3,000	0,000	6,000	6,737	6,737	8,500	8,500	9,200	9,200	10,700	10,700	10,721
Cota (m)	13,091	13,364	12,096	12,111	12,201	12,381	12,403	13,698	13,661	13,781	13,781	13,661	13,661	13,781	13,803
E	714.558,7640	714.559,9997	714.559,9997	714.560,7634	714.563,7625	714.569,7608	714.570,4973	714.570,4973	714.572,2601	714.572,2601	714.572,9597	714.572,9597	714.574,4594	714.574,4594	714.574,4809
N	7.093.948,4369	7.093.948,4666	7.093.948,4666	7.093.948,4850	7.093.948,5571	7.093.948,7014	7.093.948,7191	7.093.948,7191	7.093.948,7615	7.093.948,7615	7.093.948,7783	7.093.948,7783	7.093.948,8144	7.093.948,8144	7.093.948,8149
Estaca: 1+060															
Dist. eixo (m)	-5,000	-3,764	-3,764	-3,000	0,000	6,000	6,737	6,737	8,500	8,500	9,200	9,200	10,700	10,700	10,732
Cota (m)	13,073	13,335	12,061	12,076	12,166	12,346	12,368	13,663	13,626	13,746	13,746	13,626	13,626	13,746	13,724
E	714.558,6949	714.559,9306	714.559,9306	714.560,6944	714.563,6935	714.569,6918	714.570,4283	714.570,4283	714.572,1910	714.572,1910	714.572,8906	714.572,8906	714.574,3904	714.574,3904	714.574,4227
N	7.093.951,3068	7.093.951,3365	7.093.951,3365	7.093.951,3549	7.093.951,4270	7.093.951,5713	7.093.951,5890	7.093.951,5890	7.093.951,6314	7.093.951,6314	7.093.951,6482	7.093.951,6482	7.093.951,6843	7.093.951,6843	7.093.951,6851
Estaca: 1+070															
Dist. eixo (m)	-5,000	-3,764	-3,764	-3,000	0,000	6,000	6,737	6,737	8,500	8,500	9,200	9,200	10,700	10,700	10,767
Cota (m)	13,009	13,233	11,938	11,953	12,043	12,223	12,246	13,541	13,503	13,623	13,623	13,503	13,503	13,623	13,579
E	714.558,4545	714.559,6902	714.559,6902	714.560,4539	714.563,4530	714.569,4513	714.570,1878	714.570,1878	714.571,9506	714.571,9506	714.572,6502	714.572,6502	714.574,1500	714.574,1500	714.574,2172
N	7.093.961,3039	7.093.961,3336	7.093.961,3336	7.093.961,3520	7.093.961,4241	7.093.961,5684	7.093.961,5861	7.093.961,5861	7.093.961,6285	7.093.961,6285	7.093.961,6453	7.093.961,6453	7.093.961,6814	7.093.961,6814	7.093.961,6830
Estaca: 1+080															
Dist. eixo (m)	-5,000	-3,764	-3,764	-3,000	0,000	6,000	6,737	6,737	8,500	8,500	9,200	9,200	10,700	10,700	10,862
Cota (m)	12,951	13,133	11,816	11,831	11,921	12,101	12,123	13,418	13,381	13,501	13,501	13,381	13,381	13,501	13,663
E	714.558,2140	714.559,4497	714.559,4497	714.560,2135	714.563,2126	714.569,2109	714.569,9474	714.569,9474	714.571,7101	714.571,7101	714.572,4097	714.572,4097	714.573,9095	714.573,9095	714.574,0719
N	7.093.971,3010	7.093.971,3307	7.093.971,3307	7.093.971,3491	7.093.971,4212	7.093.971,5655	7.093.971,5832	7.093.971,5832	7.093.971,6256	7.093.971,6256	7.093.971,6424	7.093.971,6424	7.093.971,6785	7.093.971,6785	7.093.971,6824
Estaca: 1+090															
Dist. eixo (m)	-5,000	-3,764	-3,764	-3,000	0,000	6,000	6,737	6,737	8,500	8,500	9,200	9,200	10,700	10,700	10,981
Cota (m)	12,893	13,033	11,693	11,708	11,798	11,978	12,001	13,296	13,258	13,378	13,378	13,258	13,258	13,378	13,660
E	714.557,9736	714.559,2093	714.559,2093	714.559,9730	714.562,9722	714.568,9704	714.569,7069	714.569,7069	714.571,4697	714.571,4697	714.572,1693	714.572,1693	714.573,6691	714.573,6691	714.573,9503
N	7.093.981,2981	7.093.981,3278	7.093.981,3278	7.093.981,3462	7.093.981,4183	7.093.981,5626	7.093.981,5803	7.093.981,5803	7.093.981,6227	7.093.981,6227	7.093.981,6395	7.093.981,6395	7.093.981,6756	7.093.981,6756	7.093.981,6824
Estaca: 1+100															
Dist. eixo (m)	-5,000	-3,764	-3,764	-3,000	0,000	6,000	6,737	6,737	8,500	8,500	9,200	9,200	10,700	10,700	10,951
Cota (m)	12,839	12,942	11,583	11,598	11,688	11,868	11,890	13,185	13,148	13,268	13,268	13,148	13,148	13,268	13,519
E	714.557,7332	714.558,9688	714.558,9688	714.559,7326	714.562,7317	714.568,7300	714.569,4665	714.569,4665	714.571,2293	714.571,2293	714.572,9288	714.572,9288	714.573,4286	714.573,4286	714.573,6798
N	7.093.991,2952	7.093.991,3249	7.093.991,3249	7.093.991,3433	7.093.991,4154	7.093.991,5597	7.093.991,5774	7.093.991,5774	7.093.991,6198	7.093.991,6198	7.093.991,6367	7.093.991,6367	7.093.991,6727	7.093.991,6727	7.093.991,6788

PROJETO DE ENGENHARIA VIÁRIA
DUPLICAÇÃO DA AVENIDA SANTOS DUMONT
NOTA DE SERVIÇO - EIXO 01

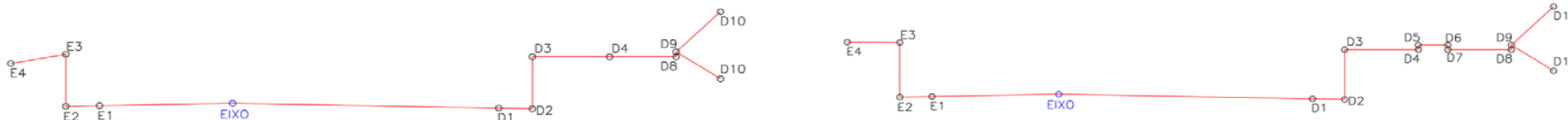
Local: Avenida Santos Dumont - Trecho entre Rua Dom Bosco e Av. Rolf Wiest

Município: Joinville/SC

Data: Junho/2024

Arquivo: RCV-10651-01-02-NS-01-A

Desenho Esquemático:



PONTOS NOTÁVEIS	E4	E3	E2	E1	EIXO	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10
Estaca: 1+110															
Dist. eixo (m)	-5,000	-3,764	-3,764	-3,000	0,000	6,000	6,737	6,737	8,500	8,500	9,200	9,200	10,700	10,700	10,742
Cota (m)	12,836	12,884	11,495	11,510	11,600	11,780	11,802	13,097	13,060	13,180	13,180	13,060	13,060	13,180	13,152
E	714.557,4927	714.558,7284	714.558,7284	714.559,4921	714.562,4913	714.568,4895	714.569,2261	714.569,2261	714.570,9888	714.570,9888	714.571,6884	714.571,6884	714.573,1882	714.573,1882	714.573,2303
N	7.094.001,2923	7.094.001,3221	7.094.001,3221	7.094.001,3404	7.094.001,4126	7.094.001,5568	7.094.001,5745	7.094.001,5745	7.094.001,6169	7.094.001,6169	7.094.001,6338	7.094.001,6338	7.094.001,6698	7.094.001,6698	7.094.001,6708
Estaca: 1+120															
Dist. eixo (m)	-5,000	-3,764	-3,764	-3,000	0,000	6,000	6,737	6,737	8,500	8,500	9,200	9,200	10,700	10,700	
Cota (m)	12,827	12,831	11,419	11,434	11,524	11,704	11,726	13,021	12,984	13,104	13,104	12,984	12,984	13,104	
E	714.557,2523	714.558,4880	714.558,4880	714.559,2517	714.562,2508	714.568,2491	714.568,9856	714.568,9856	714.570,7484	714.570,7484	714.571,4480	714.571,4480	714.572,9477	714.572,9477	
N	7.094.011,2894	7.094.011,3192	7.094.011,3192	7.094.011,3375	7.094.011,4097	7.094.011,5539	7.094.011,5716	7.094.011,5716	7.094.011,6140	7.094.011,6140	7.094.011,6309	7.094.011,6309	7.094.011,6669	7.094.011,6669	
Estaca: 1+124															
Dist. eixo (m)	-5,000	-3,763	-3,763	-3,000	0,000	6,000	6,740	6,740	8,500	8,500	9,200	9,200	10,700	10,700	10,763
Cota (m)	12,791	12,800	11,389	11,404	11,490	11,626	11,642	12,937	12,906	13,026	13,026	12,906	12,906	13,026	13,088
E	714.557,1459	714.558,3822	714.558,3822	714.559,1453	714.562,1444	714.568,1427	714.568,8824	714.568,8824	714.570,6420	714.570,6420	714.571,3416	714.571,3416	714.572,8413	714.572,8413	714.572,9040
N	7.094.015,7133	7.094.015,7431	7.094.015,7431	7.094.015,7614	7.094.015,8335	7.094.015,9778	7.094.015,9956	7.094.015,9956	7.094.016,0379	7.094.016,0379	7.094.016,0548	7.094.016,0548	7.094.016,0908	7.094.016,0908	7.094.016,0923
Estaca: 1+130															
Dist. eixo (m)	-5,000	-3,762	-3,762	-3,000	0,000	6,000	6,744	6,744	8,500	8,500	9,200	9,200	10,700	10,700	10,828
Cota (m)	12,759	12,764	11,352	11,367	11,447	11,527	11,537	12,832	12,807	12,927	12,927	12,807	12,807	12,927	13,055
E	714.556,9795	714.558,2163	714.558,2163	714.558,9782	714.561,9762	714.567,9723	714.568,7158	714.568,7158	714.570,4706	714.570,4706	714.571,1700	714.571,1700	714.572,6692	714.572,6692	714.572,7972
N	7.094.021,2244	7.094.021,2693	7.094.021,2693	7.094.021,2969	7.094.021,4058	7.094.021,6236	7.094.021,6506	7.094.021,6506	7.094.021,7143	7.094.021,7143	7.094.021,7397	7.094.021,7397	7.094.021,7941	7.094.021,7941	7.094.021,7988
Estaca: 1+140															
Dist. eixo (m)	-5,000	-3,761	-3,761	-3,000	0,000	6,000	6,752	6,752	8,500	8,500	9,200	9,200	10,700	10,700	10,794
Cota (m)	12,734	12,713	11,286	11,301	11,371	11,351	11,349	12,644	12,631	12,751	12,751	12,631	12,631	12,751	12,845
E	714.556,5120	714.557,7491	714.557,7491	714.558,5086	714.561,5035	714.567,4933	714.568,2436	714.568,2436	714.569,9891	714.569,9891	714.570,6877	714.570,6877	714.572,1854	714.572,1854	714.572,2793
N	7.094.031,1032	7.094.031,1754	7.094.031,1754	7.094.031,2197	7.094.031,3944	7.094.031,7439	7.094.031,7877	7.094.031,7877	7.094.031,8895	7.094.031,8895	7.094.031,9303	7.094.031,9303	7.094.032,0176	7.094.032,0176	7.094.032,0231
Estaca: 1+150															
Dist. eixo (m)	-5,000	-3,759	-3,759	-3,000	0,000	6,000	6,759	6,759	8,500	8,500	9,200	9,200	10,700	10,700	10,877
Cota (m)	12,664	12,645	11,220	11,235	11,295	11,175	11,160	12,455	12,455	12,575	12,575	12,455	12,455	12,575	12,752
E	714.555,8275	714.557,0642	714.557,0642	714.557,8211	714.560,8114	714.566,7921	714.567,5488	714.567,5488	714.569,2841	714.569,2841	714.569,9816	714.569,9816	714.571,4770	714.571,4770	714.571,6532
N	7.094.040,9694	7.094.041,0689	7.094.041,0689	7.094.041,1297	7.094.041,3703	7.094.041,8513	7.094.041,9121	7.094.041,9121	7.094.042,0517	7.094.042,0517	7.094.042,1078	7.094.042,1078	7.094.042,2281	7.094.042,2281	7.094.042,2422
Estaca: 1+157															
Dist. eixo (m)	-5,000	-3,759	-3,759	-3,000	0,000	6,000	6,759	6,759	8,500	8,500	9,200	9,200	10,700	10,700	10,842
Cota (m)	12,602	12,591	11,170	11,185	11,245	11,125	11,110	12,405	12,405	12,525	12,525	12,405	12,405	12,525	12,667
E	714.555,2609	714.556,4961	714.556,4961	714.557,2520	714.560,2385	714.566,2117	714.566,9674	714.566,9674	714.568,7005	714.568,7005	714.569,3971	714.569,3971	714.570,8906	714.570,8906	714.571,0324
N	7.094.047,4311	7.094.047,5484	7.094.047,5484	7.094.047,6202	7.094.047,9037	7.094.048,4709	7.094.048,5427	7.094.048,5427	7.094.048,7072	7.094.048,7072	7.094.048,7734	7.094.048,7734	7.094.048,9152	7.094.048,9152	7.094.048,9287
Estaca: 1+160															
Dist. eixo (m)	-5,000	-3,759	-3,759	-3,000	0,000	6,000	6,759	6,759	8,500	8,500	9,200	9,200	10,700	10,700	10,896
Cota (m)	12,573	12,564	11,144	11,159	11,219	11,099	11,083	12,378	12,379	12,499	12,499	12,379	12,379	12,499	12,695
E	714.554,9356	714.556,1708	714.556,1708	714.556,9267	714.559,9132	714.565,8864	714.566,6421	714.566,6421	714.568,3752	714.568,3752	714.569,0718	714.569,0718	714.570,5653	714.570,5653	714.570,7604
N	7.094.050,8571	7.094.050,9744	7.094.050,9744	7.094.051,0461	7.094.051,3297	7.094.051,8969	7.094.051,9686	7.094.051,9686	7.094.052,1332	7.094.052,1332	7.094.052,1994	7.094.052,1994	7.094.052,3412	7.094.052,3412	7.094.052,3597

PROJETO DE ENGENHARIA VIÁRIA
DUPLICAÇÃO DA AVENIDA SANTOS DUMONT
NOTA DE SERVIÇO - EIXO 01

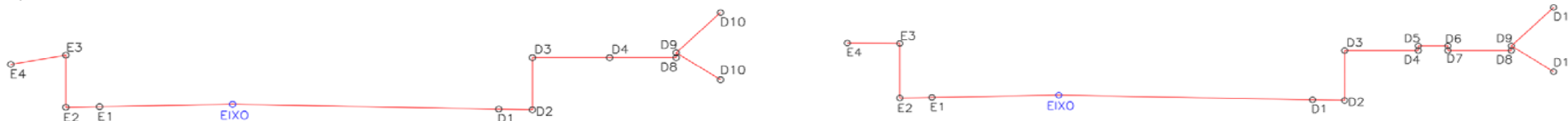
Local: Avenida Santos Dumont - Trecho entre Rua Dom Bosco e Av. Rolf Wiest

Município: Joinville/SC

Data: Junho/2024

Arquivo: RCV-10651-01-02-NS-01-A

Desenho Esquemático:



PONTOS NOTÁVEIS	E4	E3	E2	E1	EIXO	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10
Estaca: 1+170															
Dist. eixo (m)	-5,000	-3,759	-3,759	-3,000	0,000	6,000	6,759	6,759	8,500	8,500	9,200	9,200	10,700	10,700	10,766
Cota (m)	12,504	12,490	11,067	11,082	11,142	11,022	11,007	12,302	12,302	12,422	12,422	12,302	12,302	12,422	12,378
E	714.553,9903	714.555,2255	714.555,2255	714.555,9814	714.558,9679	714.564,9411	714.565,6968	714.565,6968	714.567,4299	714.567,4299	714.568,1265	714.568,1265	714.569,6200	714.569,6200	714.569,6860
N	7.094.060,8123	7.094.060,9296	7.094.060,9296	7.094.061,0014	7.094.061,2849	7.094.061,8521	7.094.061,9239	7.094.061,9239	7.094.062,0884	7.094.062,0884	7.094.062,1546	7.094.062,1546	7.094.062,2964	7.094.062,2964	7.094.062,3027
Estaca: 1+177															
Dist. eixo (m)	-5,000	-3,759	-3,759	-3,000	0,000	6,072	6,831	6,831	8,573	8,573	9,273	9,273	10,774	10,774	10,890
Cota (m)	12,429	12,429	11,014	11,029	11,089	10,967	10,952	12,247	12,247	12,367	12,367	12,247	12,247	12,367	12,290
E	714.553,3225	714.554,5577	714.554,5577	714.555,3136	714.558,3001	714.564,3451	714.565,1008	714.565,1008	714.566,8348	714.566,8348	714.567,5318	714.567,5318	714.569,0259	714.569,0259	714.569,1417
N	7.094.067,8451	7.094.067,9624	7.094.067,9624	7.094.068,0342	7.094.068,3178	7.094.068,8917	7.094.068,9635	7.094.068,9635	7.094.069,1282	7.094.069,1282	7.094.069,1943	7.094.069,1943	7.094.069,3362	7.094.069,3362	7.094.069,3472
Estaca: 1+180															
Dist. eixo (m)	-4,986	-3,746	-3,746	-2,986	0,000	6,148	6,907	6,907	8,649	8,649	9,349	9,349	10,850	10,850	10,953
Cota (m)	12,406	12,406	10,991	11,006	11,066	10,943	10,928	12,223	12,223	12,343	12,343	12,223	12,223	12,343	12,275
E	714.553,0754	714.554,3123	714.554,3123	714.555,0692	714.558,0465	714.564,1760	714.564,9327	714.564,9327	714.566,6692	714.566,6692	714.567,3671	714.567,3671	714.568,8632	714.568,8632	714.568,9654
N	7.094.070,8520	7.094.070,9491	7.094.070,9491	7.094.071,0085	7.094.071,2423	7.094.071,7236	7.094.071,7830	7.094.071,7830	7.094.071,9194	7.094.071,9194	7.094.071,9742	7.094.071,9742	7.094.072,0916	7.094.072,0916	7.094.072,0997
Estaca: 1+190															
Dist. eixo (m)	-4,978	-3,738	-3,738	-2,978	0,000	6,378	7,137	7,137	8,879	8,879	9,579	9,579	11,079	11,079	11,129
Cota (m)	12,335	12,335	10,920	10,935	10,994	10,867	10,852	12,147	12,147	12,267	12,267	12,147	12,147	12,267	12,234
E	714.552,5640	714.553,8043	714.553,8043	714.554,5634	714.557,5409	714.563,9175	714.564,6764	714.564,6764	714.566,4174	714.566,4174	714.567,1172	714.567,1172	714.568,6174	714.568,6174	714.568,6672
N	7.094.081,1147	7.094.081,1430	7.094.081,1430	7.094.081,1603	7.094.081,2282	7.094.081,3737	7.094.081,3910	7.094.081,3910	7.094.081,4307	7.094.081,4307	7.094.081,4467	7.094.081,4467	7.094.081,4809	7.094.081,4809	7.094.081,4820
Estaca: 1+198															
Dist. eixo (m)	-5,007	-3,766	-3,766	-3,007	0,000	6,530	7,289	7,289	9,030	9,030	9,730	9,730	11,231	11,231	11,276
Cota (m)	12,280	12,280	10,865	10,880	10,941	10,810	10,795	12,090	12,090	12,210	12,210	12,090	12,090	12,210	12,256
E	714.552,5321	714.553,7725	714.553,7725	714.554,5316	714.557,5375	714.564,0657	714.564,8247	714.564,8247	714.566,5655	714.566,5655	714.567,2653	714.567,2653	714.568,7653	714.568,7653	714.568,8110
N	7.094.089,3960	7.094.089,3688	7.094.089,3688	7.094.089,3521	7.094.089,2861	7.094.089,1427	7.094.089,1260	7.094.089,1260	7.094.089,0877	7.094.089,0877	7.094.089,0724	7.094.089,0724	7.094.089,0394	7.094.089,0394	7.094.089,0384
Estaca: 1+200															
Dist. eixo (m)	-5,018	-3,777	-3,777	-3,018	0,000	6,562	7,321	7,321	9,062	9,062	9,762	9,762	11,262	11,262	11,329
Cota (m)	12,267	12,267	10,852	10,867	10,928	10,796	10,781	12,076	12,076	12,196	12,196	12,076	12,076	12,196	12,263
E	714.552,5752	714.553,8152	714.553,8152	714.554,5741	714.557,5907	714.564,1489	714.564,9076	714.564,9076	714.566,6479	714.566,6479	714.567,3474	714.567,3474	714.568,8470	714.568,8470	714.568,9133
N	7.094.091,3911	7.094.091,3505	7.094.091,3505	7.094.091,3256	7.094.091,2268	7.094.091,0120	7.094.090,9871	7.094.090,9871	7.094.090,9301	7.094.090,9301	7.094.090,9072	7.094.090,9072	7.094.090,8580	7.094.090,8580	7.094.090,8559
Estaca: 1+210															
Dist. eixo (m)	-5,106	-3,865	-3,865	-3,106	0,000	6,699	7,458	7,458	9,199	9,199	9,899	9,899	11,399	11,399	11,570
Cota (m)	12,199	12,199	10,784	10,799	10,861	10,727	10,712	12,007	12,007	12,127	12,127	12,007	12,007	12,127	12,298
E	714.554,0435	714.554,3452	714.554,3452	714.555,1015	714.558,1955	714.564,8679	714.565,6241	714.565,6241	714.567,3584	714.567,3584	714.568,0555	714.568,0555	714.569,5499	714.569,5499	714.569,7207
N	7.094.101,6575	7.094.101,5481	7.094.101,5481	7.094.101,4811	7.094.101,2072	7.094.100,6165	7.094.100,5495	7.094.100,5495	7.094.100,3960	7.094.100,3960	7.094.100,3343	7.094.100,3343	7.094.100,2019	7.094.100,2019	7.094.100,1868
Estaca: 1+219															
Dist. eixo (m)	-5,227	-3,986	-3,986	-3,227	0,000	6,769	7,528	7,528	9,269	9,269	9,969	9,969	11,469	11,469	11,717
Cota (m)	12,136	12,136	10,721	10,736	10,800	10,665	10,650	11,945	11,945	12,065	12,065	11,945	11,945	12,065	12,313
E	714.554,0435	714.555,2723	714.555,2723	714.556,0243	714.559,2202	714.566,6759	714.568,6759	714.568,6759	714.569,4001	714.569,4001	714.569,9321	714.569,9321	714.570,5791	714.570,5791	714.570,8250
N	7.094.110,9228	7.094.110,7514	7.094.110,7514	7.094.110,6465	7.094.110,2007	7.094.109,2655	7.094.109,1606	7.094.109,1606	7.094.108,9201	7.094.108,9201	7.094.108,8235	7.094.108,8235	7.094.108,6162	7.094.108,6162	7.094.108,5819

PROJETO DE ENGENHARIA VIÁRIA
DUPLICAÇÃO DA AVENIDA SANTOS DUMONT
NOTA DE SERVIÇO - EIXO 01

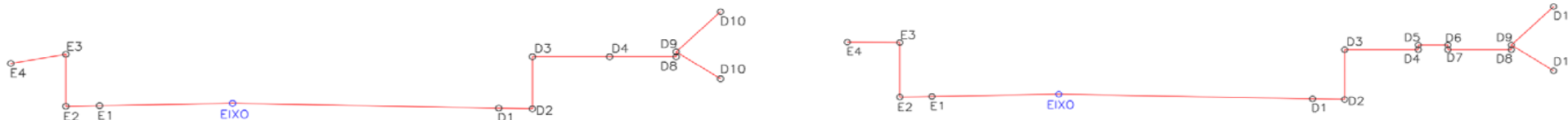
Local: Avenida Santos Dumont - Trecho entre Rua Dom Bosco e Av. Rolf Wiest

Município: Joinville/SC

Data: Junho/2024

Arquivo: RCV-10651-01-02-NS-01-A

Desenho Esquemático:



PONTOS NOTÁVEIS	E4	E3	E2	E1	EIXO	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10
Estaca: 1+220															
Dist. eixo (m)	-5,239	-3,998	-3,998	-3,239	0,000	6,765	7,524	7,524	9,265	9,265	9,964	9,964	11,465	11,465	11,718
Cota (m)	12,129	12,129	10,714	10,729	10,794	10,659	10,644	11,939	11,939	12,059	12,059	11,939	11,939	12,059	12,312
E	714.554,1623	714.555,3911	714.555,3911	714.556,1431	714.559,3511	714.566,0509	714.566,8027	714.566,8027	714.568,5269	714.568,5269	714.569,2200	714.569,2200	714.570,7058	714.570,7058	714.570,9566
N	7.094.111,8628	7.094.111,6914	7.094.111,6914	7.094.111,5865	7.094.111,1390	7.094.110,2044	7.094.110,0995	7.094.110,0995	7.094.109,8590	7.094.109,8590	7.094.109,7623	7.094.109,7623	7.094.109,5551	7.094.109,5551	7.094.109,5201
Estaca: 1+230															
Dist. eixo (m)	-5,252	-4,009	-4,009	-3,250	0,000	6,795	7,554	7,554	9,295	9,295	9,995	9,995	11,495	11,495	11,737
Cota (m)	12,061	12,062	10,647	10,662	10,727	10,591	10,576	11,871	11,871	11,991	11,991	11,871	11,871	11,991	12,233
E	714.555,5311	714.556,7618	714.556,7618	714.557,5138	714.560,7326	714.567,4623	714.568,2142	714.568,2142	714.569,9384	714.569,9386	714.570,6316	714.570,6316	714.572,1174	714.572,1174	714.572,3566
N	7.094.121,7687	7.094.121,5970	7.094.121,5970	7.094.121,4921	7.094.121,0431	7.094.120,1044	7.094.119,9995	7.094.119,9995	7.094.119,7590	7.094.119,7589	7.094.119,6623	7.094.119,6623	7.094.119,4550	7.094.119,4550	7.094.119,4216
Estaca: 1+240															
Dist. eixo (m)	-5,250	-4,009	-4,009	-3,250	0,000	6,875	7,635	7,635	9,375	9,375	10,075	10,075	11,576	11,576	11,779
Cota (m)	11,995	11,995	10,580	10,595	10,660	10,523	10,508	11,803	11,803	11,923	11,923	11,803	11,803	11,923	12,127
E	714.556,9145	714.558,1433	714.558,1433	714.558,8953	714.562,1142	714.568,9237	714.569,6755	714.569,6755	714.571,3998	714.571,3998	714.572,0929	714.572,0929	714.573,5787	714.573,5787	714.573,7806
N	7.094.131,6725	7.094.131,5011	7.094.131,5011	7.094.131,3962	7.094.130,9472	7.094.129,9973	7.094.129,8925	7.094.129,8925	7.094.129,6519	7.094.129,6519	7.094.129,5553	7.094.129,5553	7.094.129,3480	7.094.129,3480	7.094.129,3198
Estaca: 1+243															
Dist. eixo (m)	-5,250	-4,009	-4,009	-3,250	0,000	6,900	7,659	7,659	9,400	9,400	10,100	10,100	11,601	11,601	11,793
Cota (m)	11,975	11,975	10,560	10,575	10,640	10,502	10,486	11,781	11,782	11,902	11,902	11,782	11,782	11,902	12,094
E	714.557,3427	714.558,5715	714.558,5715	714.559,3235	714.562,5423	714.569,3766	714.570,1284	714.570,1284	714.571,8527	714.571,8527	714.572,5458	714.572,5458	714.574,0316	714.574,0316	714.574,2220
N	7.094.134,7420	7.094.134,5706	7.094.134,5706	7.094.134,4657	7.094.134,0167	7.094.133,0634	7.094.132,9585	7.094.132,9585	7.094.132,7180	7.094.132,7180	7.094.132,6213	7.094.132,6213	7.094.132,4141	7.094.132,4141	7.094.132,3875
Estaca: 1+250															
Dist. eixo (m)	-5,290	-4,049	-4,049	-3,290	0,000	6,916	7,675	7,675	9,416	9,416	10,116	10,116	11,616	11,616	11,783
Cota (m)	11,928	11,928	10,513	10,528	10,594	10,455	10,440	11,735	11,735	11,855	11,855	11,735	11,735	11,855	12,022
E	714.558,3046	714.559,5313	714.559,5313	714.560,2821	714.563,5350	714.570,3733	714.571,1239	714.571,1239	714.572,8452	714.572,8452	714.573,5372	714.573,5372	714.575,0205	714.575,0205	714.575,1851
N	7.094.141,6367	7.094.141,4512	7.094.141,4512	7.094.141,3376	7.094.140,8457	7.094.139,8115	7.094.139,6980	7.094.139,6980	7.094.139,4376	7.094.139,4376	7.094.139,3330	7.094.139,3330	7.094.139,1086	7.094.139,1086	7.094.139,0837
Estaca: 1+255															
Dist. eixo (m)	-5,366	-4,125	-4,125	-3,366	0,000	6,880	7,639	7,639	9,380	9,380	10,080	10,080	11,580	11,580	11,728
Cota (m)	11,894	11,894	10,479	10,494	10,561	10,423	10,408	11,703	11,703	11,823	11,823	11,703	11,703	11,823	11,971
E	714.558,9820	714.560,2072	714.560,2074	714.560,9570	714.564,2808	714.571,0750	714.571,8247	714.571,8247	714.573,5440	714.573,5440	714.574,2351	714.574,2351	714.575,7167	714.575,7167	714.575,8622
N	7.094.146,4911	7.094.146,2956	7.094.146,2956	7.094.146,1760	7.094.145,6458	7.094.144,5619	7.094.144,4423	7.094.144,4423	7.094.144,1680	7.094.144,1680	7.094.144,0578	7.094.144,0578	7.094.143,8214	7.094.143,8214	7.094.143,7982
Estaca: 1+260															
Dist. eixo (m)	-5,287	-4,046	-4,046	-3,287	0,000	6,800	7,559	7,559	9,300	9,300	10,000	10,000	11,501	11,501	11,627
Cota (m)	11,861	11,861	10,446	10,461	10,527	10,391	10,376	11,671	11,671	11,791	11,791	11,671	11,671	11,791	11,917
E	714.559,8993	714.561,1228	714.561,1228	714.561,8716	714.565,1127	714.571,8180	714.572,5666	714.572,5666	714.574,2838	714.574,2838	714.574,9740	714.574,9740	714.576,4537	714.576,4537	714.576,5782
N	7.094.151,5979	7.094.151,3919	7.094.151,3919	7.094.151,2659	7.094.150,7203	7.094.149,5916	7.094.149,4656	7.094.149,4656	7.094.149,1766	7.094.149,1766	7.094.149,0604	7.094.149,0604	7.094.148,8113	7.094.148,8113	7.094.148,7903
Estaca: 1+267															
Dist. eixo (m)	-5,250	-4,009	-4,009	-3,250	0,000	6,787	7,546	7,546	9,287	9,287	9,987	9,987	11,487	11,487	11,604
Cota (m)	11,808	11,808	10,393	10,408	10,473	10,338	10,323	11,618	11,618	11,738	11,738	11,618	11,618	11,738	11,855
E	714.561,0796	714.562,3008	714.562,3008	714.563,0481	714.566,2469	714.572,9270	714.573,6741	714.573,6741	714.575,3876	714.575,3876	714.576,0764	714.576,0764	714.577,5530	714.577,5530	714.577,6679
N	7.094.158,1670	7.094.157,9476	7.094.157,9476	7.094.157,8133	7.094.157,2385	7.094.156,0381	7.094.155,9039	7.094.155,9039	7.094.155,5960	7.094.155,5960	7.094.155,4722	7.094.155,4722	7.094.155,2069	7.094.155,2069	7.094.155,1862

PROJETO DE ENGENHARIA VIÁRIA
DUPLICAÇÃO DA AVENIDA SANTOS DUMONT
NOTA DE SERVIÇO - EIXO 01

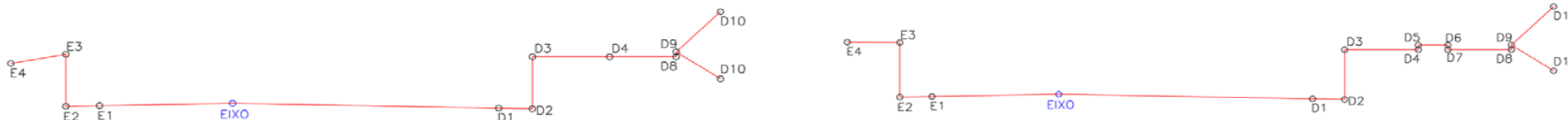
Local: Avenida Santos Dumont - Trecho entre Rua Dom Bosco e Av. Rolf Wiest

Município: Joinville/SC

Data: Junho/2024

Arquivo: RCV-10651-01-02-NS-01-A

Desenho Esquemático:



PONTOS NOTÁVEIS	E4	E3	E2	E1	EIXO	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10
Estaca: 1+270															
Dist. eixo (m)	-5,250	-4,009	-4,009	-3,250	0,000	6,772	7,531	7,531	9,272	9,272	9,972	9,972	11,472	11,472	11,585
Cota (m)	11,774	11,774	10,359	10,374	10,439	10,303	10,288	11,583	11,583	11,703	11,703	11,583	11,583	11,703	11,817
E	714.561,6781	714.562,8992	714.562,8992	714.563,6466	714.566,8453	714.573,5103	714.574,2574	714.574,2574	714.575,9709	714.575,9709	714.576,6596	714.576,6596	714.578,1362	714.578,1362	714.578,2481
N	7.094.161,4975	7.094.161,2781	7.094.161,2781	7.094.161,1438	7.094.160,5690	7.094.159,3714	7.094.159,2371	7.094.159,2371	7.094.158,9292	7.094.158,9292	7.094.158,8055	7.094.158,8055	7.094.158,5401	7.094.158,5401	7.094.158,5200
Estaca: 1+280															
Dist. eixo (m)				-3,000	0,000	6,726	7,485	7,485	9,226	9,226	9,926	9,926	11,426	11,426	11,538
Cota (m)				10,268	10,328	10,194	10,179	11,474	11,474	11,594	11,594	11,474	11,474	11,594	11,706
E				714.565,6612	714.568,6139	714.575,2339	714.575,9810	714.575,9810	714.577,6945	714.577,6945	714.578,3833	714.578,3833	714.579,8599	714.579,8599	714.579,9703
N				7.094.170,9419	7.094.170,4114	7.094.169,2218	7.094.169,0876	7.094.169,0876	7.094.168,7797	7.094.168,7797	7.094.168,6559	7.094.168,6559	7.094.168,3906	7.094.168,3906	7.094.168,3707
Estaca: 1+290															
Dist. eixo (m)				-3,000	0,000	6,736	7,495	7,495	9,237	9,237	9,937	9,937	11,437	11,437	11,571
Cota (m)				10,162	10,222	10,087	10,072	11,367	11,367	11,487	11,487	11,367	11,367	11,487	11,622
E				714.567,3605	714.570,3132	714.576,9430	714.577,6901	714.577,6901	714.579,4041	714.579,4041	714.580,0931	714.580,0931	714.581,5700	714.581,5700	714.581,7022
N				7.094.180,3986	7.094.179,8681	7.094.178,6768	7.094.178,5425	7.094.178,5425	7.094.178,2345	7.094.178,2345	7.094.178,1107	7.094.178,1107	7.094.177,8453	7.094.177,8453	7.094.177,8216
Estaca: 1+300															
Dist. eixo (m)				-3,000	0,000	6,854	7,613	7,613	9,354	9,354	10,054	10,054	11,554	11,554	11,778
Cota (m)				10,047	10,107	9,970	9,955	11,250	11,250	11,370	11,370	11,250	11,250	11,370	11,594
E				714.569,3161	714.572,2572	714.578,9766	714.579,7208	714.579,7208	714.581,4275	714.581,4275	714.582,1136	714.582,1136	714.583,5843	714.583,5843	714.583,8035
N				7.094.190,6681	7.094.190,0763	7.094.188,7241	7.094.188,5744	7.094.188,5744	7.094.188,2309	7.094.188,2309	7.094.188,0929	7.094.188,0929	7.094.187,7969	7.094.187,7969	7.094.187,7528
Estaca: 1+301															
Dist. eixo (m)				-3,000	0,000	6,854	7,613	7,613	9,354	9,354	10,053	10,053	11,554	11,554	11,775
Cota (m)				10,031	10,091	9,954	9,938	11,233	11,234	11,354	11,354	11,234	11,234	11,354	11,575
E				714.569,6120	714.572,5512	714.579,2662	714.580,0099	714.580,0099	714.581,7156	714.581,7156	714.582,4012	714.582,4012	714.583,8710	714.583,8710	714.584,0876
N				7.094.192,1270	7.094.191,5264	7.094.190,1545	7.094.190,0026	7.094.190,0026	7.094.189,6541	7.094.189,6541	7.094.189,5140	7.094.189,5140	7.094.189,2137	7.094.189,2137	7.094.189,1695
Estaca: 1+310															
Dist. eixo (m)				-3,000	0,000	6,767	7,526	7,526	9,267	9,267	9,967	9,967	11,468	11,468	11,674
Cota (m)				9,936	9,996	9,861	9,846	11,141	11,141	11,261	11,261	11,141	11,141	11,261	11,468
E				714.571,3992	714.574,3278	714.580,9335	714.581,6746	714.581,6746	714.583,3745	714.583,3745	714.584,0578	714.584,0578	714.585,5225	714.585,5225	714.585,7245
N				7.094.200,5099	7.094.199,8594	7.094.198,3921	7.094.198,2275	7.094.198,2275	7.094.197,8499	7.094.197,8499	7.094.197,6981	7.094.197,6981	7.094.197,3728	7.094.197,3728	7.094.197,3279
Estaca: 1+313															
Dist. eixo (m)				-3,000	0,000	6,809	7,568	7,568	9,310	9,310	10,010	10,010	11,510	11,510	11,731
Cota (m)				9,899	9,959	9,823	9,808	11,103	11,103	11,223	11,223	11,103	11,103	11,223	11,444
E				714.572,1413	714.575,0655	714.581,7028	714.582,4427	714.582,4427	714.584,1399	714.584,1399	714.584,8220	714.584,8220	714.586,2845	714.586,2845	714.586,4998
N				7.094.203,7985	7.094.203,1284	7.094.201,6073	7.094.201,4378	7.094.201,4378	7.094.201,0488	7.094.201,0488	7.094.200,8925	7.094.200,8925	7.094.200,5574	7.094.200,5574	7.094.200,5080
Estaca: 1+320															
Dist. eixo (m)				-3,000	0,000	6,902	7,661	7,661	9,402	9,402	10,102	10,102	11,602	11,602	11,679
Cota (m)				9,826	9,886	9,748	9,733	11,028	11,028	11,148	11,148	11,028	11,028	11,148	11,225
E				714.573,6265	714.576,5506	714.583,2783	714.584,0183	714.584,0183	714.585,7153	714.585,7153	714.586,3975	714.586,3975	714.587,8599	714.587,8599	714.587,9350
N				7.094.210,2793	7.094.209,6092	7.094.208,0674	7.094.207,8978	7.094.207,8978	7.094.207,5089	7.094.207,5089	7.094.207,3526	7.094.207,3526	7.094.207,0175	7.094.207,0175	7.094.207,0003

PROJETO DE ENGENHARIA VIÁRIA
DUPLICAÇÃO DA AVENIDA SANTOS DUMONT
NOTA DE SERVIÇO - EIXO 01

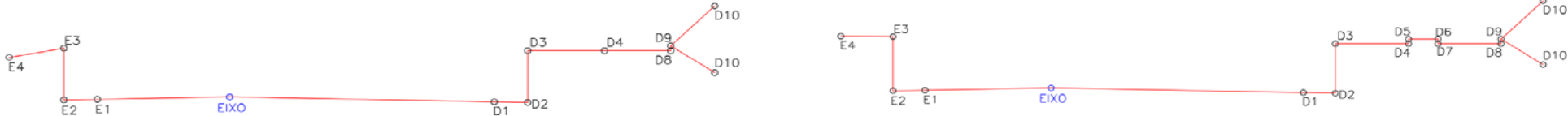
Local: Avenida Santos Dumont - Trecho entre Rua Dom Bosco e Av. Rolf Wiest

Município: Joinville/SC

Data: Junho/2024

Arquivo: RCV-10651-01-02-NS-01-A

Desenho Esquemático:



PONTOS NOTÁVEIS	E4	E3	E2	E1	EIXO	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10
Estaca: 1+330															
Dist. eixo (m)	-5,000	-3,759	-3,759	-3,000	0,000	7,016	7,775	7,775					11,717	11,717	
Cota (m)	11,166	11,166	9,751	9,766	9,826	9,685	9,670	10,965					10,965	11,085	
E	714.573,9108	714.575,1201	714.575,1201	714.575,8602	714.578,7844	714.585,6234	714.586,3634	714.586,3634					714.590,2050	714.590,2050	
N	7.094.220,4734	7.094.220,1962	7.094.220,1962	7.094.220,0266	7.094.219,3565	7.094.217,7892	7.094.217,6196	7.094.217,6196					7.094.216,7393	7.094.216,7393	
Estaca: 1+334															
Dist. eixo (m)	-5,000	-3,759	-3,759	-3,000	0,000	6,000	6,759	6,759	8,500	8,500	9,200	9,200	10,700	10,700	10,791
Cota (m)	11,157	11,157	9,742	9,757	9,817	9,697	9,682	10,977	10,977	11,097	11,097	10,977	10,977	11,097	11,188
E	714.574,8972	714.576,1066	714.576,1066	714.576,8467	714.579,7709	714.585,6193	714.586,3592	714.586,3592	714.588,0561	714.588,0561	714.588,7382	714.588,7382	714.590,2005	714.590,2005	714.590,2892
N	7.094.224,7779	7.094.224,5007	7.094.224,5007	7.094.224,3311	7.094.223,6610	7.094.222,3207	7.094.222,1511	7.094.222,1511	7.094.221,7623	7.094.221,7623	7.094.221,6059	7.094.221,6059	7.094.221,2708	7.094.221,2708	7.094.221,2505

PROJETO DE ENGENHARIA VIÁRIA
DUPLICAÇÃO DA AVENIDA SANTOS DUMONT
NOTA DE SERVIÇO - EIXO 02

Local: Avenida Santos Dumont - Trecho entre Rua Dom Bosco e Av. Rolf Wiest

Data: Junho/2024

Município: Joinville/SC

Arquivo: RCV-10651-01-02-NS-01-A

Desenho Esquemático:



PONTOS NOTÁVEIS			E1	EIXO	D1		
Estaca: 0+000							
Dist. eixo (m)			-0,759	0,000			
Cota (m)			13,497	13,512			
E			714.592,1517	714.591,3946			
N			7.093.490,7950	7.093.490,7396			
Estaca: 0+007							
Dist. eixo (m)			-0,759	0,000	0,409		
Cota (m)			13,435	13,450	13,468		
E			714.593,0637	714.592,3179	714.591,9157		
N			7.093.483,8404	7.093.483,6988	7.093.483,6224		
Estaca: 0+010							
Dist. eixo (m)			-0,759	0,000	0,815		
Cota (m)			13,410	13,425	13,451		
E			714.593,6626	714.592,9242	714.592,1313		
N			7.093.481,0445	7.093.480,8682	7.093.480,6789		
Estaca: 0+014							
Dist. eixo (m)			-0,759	0,000	1,665		
Cota (m)			13,373	13,388	13,424		
E			714.594,7649	714.594,0402	714.592,4509		
N			7.093.477,0357	7.093.476,8097	7.093.476,3141		
Estaca: 0+016							
Dist. eixo (m)			-0,759	0,000	1,980		
Cota (m)			13,361	13,376	13,416		
E			714.595,1667	714.594,4420	714.592,5521		
N			7.093.475,7472	7.093.475,5212	7.093.474,9319		
Estaca: 0+020							
Dist. eixo (m)			-0,759	0,000	2,810		
Cota (m)			13,323	13,338	13,387		
E			714.596,3453	714.595,6059	714.592,8691		
N			7.093.471,4090	7.093.471,2372	7.093.470,6013		

PROJETO DE ENGENHARIA VIÁRIA
DUPLICAÇÃO DA AVENIDA SANTOS DUMONT
NOTA DE SERVIÇO - EIXO 02

Local: Avenida Santos Dumont - Trecho entre Rua Dom Bosco e Av. Rolf Wiest

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Arquivo: RCV-10651-01-02-NS-01-A

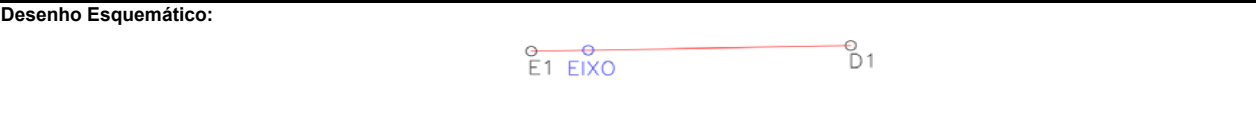
Desenho Esquemático:



PONTOS NOTÁVEIS			E1	EIXO	D1		
Estaca: 0+022							
Dist. eixo (m)			-0,759	0,000	3,126		
Cota (m)			13,301	13,317	13,370		
E			714.596,8570	714.596,1112	714.593,0403		
N			7.093.468,9829	7.093.468,8414	7.093.468,2588		
Estaca: 0+029							
Dist. eixo (m)			-0,759	0,000	3,500		
Cota (m)			13,241	13,257	13,327		
E			714.597,7613	714.597,0042	714.593,5134		
N			7.093.462,0694	7.093.462,0143	7.093.461,7602		
Estaca: 0+030							
Dist. eixo (m)			-0,759	0,000	3,500		
Cota (m)			13,236	13,251	13,323		
E			714.597,8094	714.597,0523	714.593,5615		
N			7.093.461,4088	7.093.461,3537	7.093.461,0997		
Estaca: 0+040							
Dist. eixo (m)			-0,759	0,000	3,500		
Cota (m)			13,179	13,195	13,450		
E			714.598,5352	714.597,7781	714.594,2873		
N			7.093.451,4352	7.093.451,3801	7.093.451,1261		
Estaca: 0+047							
Dist. eixo (m)			-0,759	0,000	3,500		
Cota (m)			13,273	13,288	13,335		
E			714.599,0736	714.598,3165	714.594,8257		
N			7.093.444,0375	7.093.443,9824	7.093.443,7284		
Estaca: 0+050							
Dist. eixo (m)			-0,759	0,000	6,973		
Cota (m)			13,336	13,352	13,337		
E			714.599,9753	714.599,5237	714.595,3748		
N			7.093.442,3991	7.093.441,7889	7.093.436,1842		

PROJETO DE ENGENHARIA VIÁRIA
DUPLICAÇÃO DA AVENIDA SANTOS DUMONT
NOTA DE SERVIÇO - EIXO 02

Local: Avenida Santos Dumont - Trecho entre Rua Dom Bosco e Av. Rolf Wiest
Município: Joinville/SC
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PONTOS NOTÁVEIS			E1	EIXO	D1		
Estaca: 0+052							
Dist. eixo (m)			-0,759	0,000	6,000		
Cota (m)			13,401	13,416	13,582		
E			714.601,4712	714.601,5263	714.601,9619		
N			7.093.441,9652	7.093.441,2081	7.093.435,2239		
Estaca: 0+057							
Dist. eixo (m)			-0,759	0,000			
Cota (m)			13,580	13,595			
E			714.603,5436	714.604,3007			
N			7.093.444,3628	7.093.444,4179			

PROJETO DE ENGENHARIA VIÁRIA

DUPLICAÇÃO DA AVENIDA SANTOS DUMONT

NOTA DE SERVIÇO - EIXO 03

Local: Avenida Santos Dumont - Trecho entre Rua Dom Bosco e Av. Rolf Wiest

Data: Junho/2024

Município: Joinville/SC

Arquivo: RCV-10651-01-02-NS-01-A

Desenho Esquemático:



PONTOS NOTÁVEIS	E4	E3	E2	E1	EIXO	D1	
Estaca: 0+000							
Dist. eixo (m)	-1,141	-1,100	-0,759	-0,759	0,000		
Cota (m)	11,660	11,687	11,687	10,272	10,287		
E	714.563,9194	714.563,9598	714.564,2951	714.564,2951	714.565,0425		
N	7.094.169,1141	7.094.169,1068	7.094.169,0465	7.094.169,0465	7.094.168,9122		
Estaca: 0+006							
Dist. eixo (m)	-1,115	-1,100	-0,759	-0,759	0,000	0,441	
Cota (m)	11,612	11,598	11,598	10,183	10,198	10,223	
E	714.564,8384	714.564,8528	714.565,1912	714.565,1912	714.565,9454	714.566,3834	
N	7.094.175,1415	7.094.175,1398	7.094.175,1003	7.094.175,1003	7.094.175,0123	7.094.174,9613	
Estaca: 0+010							
Dist. eixo (m)	-1,146	-1,100	-0,759	-0,759	0,000	0,753	
Cota (m)	11,588	11,542	11,542	10,127	10,142	10,180	
E	714.565,1735	714.565,2197	714.565,5594	714.565,5594	714.566,3164	714.567,0675	
N	7.094.178,9157	7.094.178,9121	7.094.178,8856	7.094.178,8856	7.094.178,8266	7.094.178,7680	
Estaca: 0+012							
Dist. eixo (m)	-1,168	-1,100	-0,759	-0,759	0,000	1,020	
Cota (m)	11,576	11,508	11,508	10,093	10,108	10,154	
E	714.565,3048	714.565,3723	714.565,7125	714.565,7125	714.566,4707	714.567,4887	
N	7.094.181,2200	7.094.181,2164	7.094.181,1978	7.094.181,1978	7.094.181,1565	7.094.181,1010	
Estaca: 0+020							
Dist. eixo (m)	-1,232	-1,100	-0,759	-0,759	0,000	2,045	
Cota (m)	11,529	11,397	11,397	9,982	9,997	10,069	
E	714.565,6580	714.565,7894	714.566,1296	714.566,1296	714.566,8877	714.568,9301	
N	7.094.188,8771	7.094.188,8699	7.094.188,8514	7.094.188,8514	7.094.188,8101	7.094.188,6988	
Estaca: 0+024							
Dist. eixo (m)	-1,182	-1,100	-0,759	-0,759	0,000	2,549	
Cota (m)	11,415	11,333	11,333	9,918	9,933	10,030	
E	714.565,8989	714.565,9812	714.566,3214	714.566,3214	714.567,0795	714.569,6250	
N	7.094.192,3941	7.094.192,3897	7.094.192,3711	7.094.192,3711	7.094.192,3298	7.094.192,1911	

PROJETO DE ENGENHARIA VIÁRIA **DUPLICAÇÃO DA AVENIDA SANTOS DUMONT** **NOTA DE SERVIÇO - EIXO 03**

Local: Avenida Santos Dumont - Trecho entre Rua Dom Bosco e Av. Rolf Wiest

Data: Junho/2024

Município: Joinville/SC

Arquivo: RCV-10651-01-02-NS-01-A

Desenho Esquemático:



PONTOS NOTÁVEIS	E4	E3	E2	E1	EIXO	D1	
Estaca: 0+030							
Dist. eixo (m)		-1,103	-0,759	-0,759	0,000	7,894	
Cota (m)		11,129	11,126	9,711	9,726	9,910	
E		714.564,4717	714.564,7571	714.564,7571	714.565,3867	714.571,9325	
N		7.094.197,8463	7.094.198,0386	7.094.198,0386	7.094.198,4630	7.094.202,8748	
Estaca: 0+037							
Dist. eixo (m)	-1,127	-1,100	-0,759	-0,759	0,000	12,000	
Cota (m)	10,772	10,744	10,744	9,329	9,344	9,584	
E	714.559,1543	714.559,1607	714.559,2398	714.559,2398	714.559,4161	714.562,2021	
N	7.094.201,5042	7.094.201,5308	7.094.201,8621	7.094.201,8621	7.094.202,6007	7.094.214,2728	
Estaca: 0+040							
Dist. eixo (m)	-1,179	-1,100	-0,759	-0,759	0,000	12,000	
Cota (m)	10,656	10,577	10,577	9,162	9,177	9,417	
E	714.556,8980	714.556,8962	714.556,8886	714.556,8886	714.556,8717	714.556,6046	
N	7.094.201,6926	7.094.201,7717	7.094.202,1124	7.094.202,1124	7.094.202,8715	7.094.214,8685	
Estaca: 0+050							
Dist. eixo (m)	-1,611	-1,100	-0,759	-0,759	0,000	11,126	
Cota (m)	10,459	9,948	9,948	8,533	8,548	8,350	
E	714.549,9363	714.549,5001	714.549,2094	714.549,2094	714.548,5614	714.539,0680	
N	7.094.197,2481	7.094.197,5147	7.094.197,6924	7.094.197,6924	7.094.198,0883	7.094.203,8896	
Estaca: 0+051							
Dist. eixo (m)	-1,658	-1,100	-0,759	-0,759	0,000	9,503	
Cota (m)	10,474	9,917	9,917	8,502	8,517	8,459	
E	714.549,4573	714.548,9469	714.548,6350	714.548,6350	714.547,9399	714.539,2400	
N	7.094.196,2313	7.094.196,4556	7.094.196,5927	7.094.196,5927	7.094.196,8983	7.094.200,7228	
Estaca: 0+060							
Dist. eixo (m)	-1,648	-1,100	-0,759	-0,759	0,000	5,474	
Cota (m)	10,674	10,126	10,126	8,711	8,726	8,862	
E	714.546,8452	714.546,3106	714.545,9782	714.545,9782	714.545,2375	714.539,8977	
N	7.094.188,3260	7.094.188,4465	7.094.188,5215	7.094.188,5215	7.094.188,6885	7.094.189,8928	

PROJETO DE ENGENHARIA VIÁRIA **DUPLICAÇÃO DA AVENIDA SANTOS DUMONT** **NOTA DE SERVIÇO - EIXO 03**

Local: Avenida Santos Dumont - Trecho entre Rua Dom Bosco e Av. Rolf Wiest

Data: Junho/2024

Município: Joinville/SC

Arquivo: RCV-10651-01-02-NS-01-A

Desenho Esquemático:



PONTOS NOTÁVEIS	E4	E3	E2	E1	EIXO	D1	
Estaca: 0+062							
Dist. eixo (m)	-1,606	-1,100	-0,759	-0,759	0,000	4,879	
Cota (m)	10,713	10,207	10,207	8,792	8,807	8,948	
E	714.546,4210	714.545,9229	714.545,5876	714.545,5876	714.544,8401	714.540,0379	
N	7.094.186,4403	7.094.186,5295	7.094.186,5896	7.094.186,5896	7.094.186,7235	7.094.187,5838	
Estaca: 0+070							
Dist. eixo (m)	-1,469	-1,100	-0,759	-0,759	0,000	3,562	
Cota (m)	10,903	10,533	10,533	9,118	9,133	9,276	
E	714.545,6043	714.545,2351	714.544,8944	714.544,8944	714.544,1351	714.540,5732	
N	7.094.178,7708	7.094.178,7706	7.094.178,7705	7.094.178,7705	7.094.178,7702	7.094.178,7687	
Estaca: 0+073							
Dist. eixo (m)	-1,449	-1,100	-0,759	-0,759	0,000	3,474	
Cota (m)	10,991	10,642	10,642	9,227	9,242	9,382	
E	714.545,6616	714.545,3132	714.544,9731	714.544,9731	714.544,2151	714.540,7475	
N	7.094.176,1918	7.094.176,1710	7.094.176,1507	7.094.176,1507	7.094.176,1054	7.094.175,8983	
Estaca: 0+080							
Dist. eixo (m)	-1,420	-1,100	-0,759	-0,759	0,000	3,467	
Cota (m)	11,261	10,941	10,941	9,526	9,541	9,655	
E	714.546,0696	714.545,7505	714.545,4104	714.545,4104	714.544,6524	714.541,1920	
N	7.094.168,8695	7.094.168,8504	7.094.168,8301	7.094.168,8301	7.094.168,7848	7.094.168,5781	
Estaca: 0+090							
Dist. eixo (m)	-1,298	-1,100	-0,759	-0,759	0,000	3,457	
Cota (m)	11,545	11,347	11,347	9,932	9,947	10,026	
E	714.546,5448	714.546,3467	714.546,0067	714.546,0067	714.545,2487	714.541,7982	
N	7.094.158,8800	7.094.158,8682	7.094.158,8479	7.094.158,8479	7.094.158,8026	7.094.158,5965	
Estaca: 0+099							
Dist. eixo (m)	-1,117	-1,100	-0,759	-0,759	0,000	3,337	
Cota (m)	11,653	11,636	11,636	10,221	10,236	10,241	
E	714.546,9123	714.546,8950	714.546,5549	714.546,5549	714.545,7969	714.542,4656	
N	7.094.149,6914	7.094.149,6904	7.094.149,6701	7.094.149,6701	7.094.149,6248	7.094.149,4258	

PROJETO DE ENGENHARIA VIÁRIA **DUPLICAÇÃO DA AVENIDA SANTOS DUMONT** **NOTA DE SERVIÇO - EIXO 03**

Local: Avenida Santos Dumont - Trecho entre Rua Dom Bosco e Av. Rolf Wiest

Data: Junho/2024

Município: Joinville/SC

Arquivo: RCV-10651-01-02-NS-01-A

Desenho Esquemático:



PONTOS NOTÁVEIS	E4	E3	E2	E1	EIXO	D1	
Estaca: 0+100							
Dist. eixo (m)	-1,109	-1,100	-0,759	-0,759	0,000	3,325	
Cota (m)	11,664	11,655	11,655	10,240	10,255	10,257	
E	714.546,9531	714.546,9437	714.546,6037	714.546,6037	714.545,8458	714.542,5272	
N	7.094.148,8889	7.094.148,8883	7.094.148,8673	7.094.148,8673	7.094.148,8205	7.094.148,6153	
Estaca: 0+106							
Dist. eixo (m)	-1,124	-1,100	-0,759	-0,759	0,000	3,285	
Cota (m)	11,752	11,768	11,768	10,353	10,368	10,376	
E	714.547,3835	714.547,3597	714.547,0200	714.547,0200	714.546,2630	714.542,9873	
N	7.094.142,9101	7.094.142,9083	7.094.142,8820	7.094.142,8820	7.094.142,8235	7.094.142,5702	
Estaca: 0+110							
Dist. eixo (m)	-1,123	-1,100	-0,759	-0,759	0,000	3,311	
Cota (m)	11,813	11,828	11,828	10,413	10,428	10,455	
E	714.547,7099	714.547,6866	714.547,3472	714.547,3472	714.546,5908	714.543,2926	
N	7.094.138,9466	7.094.138,9445	7.094.138,9148	7.094.138,9148	7.094.138,8485	7.094.138,5595	
Estaca: 0+113							
Dist. eixo (m)	-1,120	-1,100	-0,759	-0,759	0,000	3,354	
Cota (m)	11,852	11,865	11,865	10,450	10,465	10,511	
E	714.547,9629	714.547,9431	714.547,6039	714.547,6039	714.546,8480	714.543,5091	
N	7.094.136,1372	7.094.136,1353	7.094.136,1031	7.094.136,1031	7.094.136,0314	7.094.135,7143	
Estaca: 0+120							
Dist. eixo (m)	-1,136	-1,100	-0,759	-0,759	0,000	3,401	
Cota (m)	11,916	11,940	11,940	10,525	10,540	10,573	
E	714.548,6565	714.548,6209	714.548,2818	714.548,2818	714.547,5259	714.544,1402	
N	7.094.128,9997	7.094.128,9963	7.094.128,9641	7.094.128,9641	7.094.128,8923	7.094.128,5709	
Estaca: 0+130							
Dist. eixo (m)	-1,107	-1,100	-0,759	-0,759	0,000	3,450	
Cota (m)	12,003	11,996	11,996	10,581	10,596	10,647	
E	714.549,5729	714.549,5662	714.549,2271	714.549,2271	714.548,4712	714.545,0363	
N	7.094.119,0417	7.094.119,0411	7.094.119,0089	7.094.119,0089	7.094.118,9371	7.094.118,6110	

PROJETO DE ENGENHARIA VIÁRIA **DUPLICAÇÃO DA AVENIDA SANTOS DUMONT** **NOTA DE SERVIÇO - EIXO 03**

Local: Avenida Santos Dumont - Trecho entre Rua Dom Bosco e Av. Rolf Wiest

Data: Junho/2024

Município: Joinville/SC

Arquivo: RCV-10651-01-02-NS-01-A

Desenho Esquemático:



PONTOS NOTÁVEIS	E4	E3	E2	E1	EIXO	D1	
Estaca: 0+140							
Dist. eixo (m)	-1,204	-1,100	-0,759	-0,759	0,000	3,493	
Cota (m)	12,136	12,032	12,032	10,617	10,632	10,702	
E	714.550,6155	714.550,5115	714.550,1724	714.550,1724	714.549,4164	714.545,9395	
N	7.094.109,0958	7.094.109,0859	7.094.109,0537	7.094.109,0537	7.094.108,9819	7.094.108,6518	
Estaca: 0+150							
Dist. eixo (m)	-1,207	-1,100	-0,759	-0,759	0,000	3,527	
Cota (m)	12,180	12,073	12,073	10,658	10,673	10,737	
E	714.551,5634	714.551,4568	714.551,1176	714.551,1176	714.550,3617	714.546,8503	
N	7.094.099,1408	7.094.099,1307	7.094.099,0985	7.094.099,0985	7.094.099,0267	7.094.098,6933	
Estaca: 0+160							
Dist. eixo (m)	-1,189	-1,100	-0,759	-0,759	0,000	3,540	
Cota (m)	12,234	12,145	12,145	10,730	10,745	10,774	
E	714.552,4906	714.552,4021	714.552,0629	714.552,0629	714.551,3070	714.547,7831	
N	7.094.089,1839	7.094.089,1754	7.094.089,1432	7.094.089,1432	7.094.089,0715	7.094.088,7369	
Estaca: 0+170							
Dist. eixo (m)	-1,252	-1,100	-0,759	-0,759	0,000	3,510	
Cota (m)	12,150	12,252	12,252	10,837	10,852	10,814	
E	714.553,4988	714.553,3474	714.553,0082	714.553,0082	714.552,2523	714.548,7585	
N	7.094.079,2346	7.094.079,2202	7.094.079,1880	7.094.079,1880	7.094.079,1162	7.094.078,7845	
Estaca: 0+180							
Dist. eixo (m)	-1,290	-1,100	-0,759	-0,759	0,000	3,437	
Cota (m)	12,262	12,388	12,388	10,973	10,988	10,891	
E	714.554,4815	714.554,2927	714.553,9535	714.553,9535	714.553,1976	714.549,7762	
N	7.094.069,2829	7.094.069,2650	7.094.069,2328	7.094.069,2328	7.094.069,1610	7.094.068,8361	
Estaca: 0+183							
Dist. eixo (m)	-1,301	-1,100	-0,759	-0,759	0,000	3,346	
Cota (m)	12,302	12,436	12,436	11,021	11,036	10,942	
E	714.554,8167	714.554,6166	714.554,2775	714.554,2775	714.553,5216	714.550,1901	
N	7.094.065,8721	7.094.065,8531	7.094.065,8209	7.094.065,8209	7.094.065,7491	7.094.065,4328	

5.2 - Interseção

PROJETO DE ENGENHARIA VIÁRIA
DUPLICAÇÃO DA AVENIDA SANTOS DUMONT
NOTA DE SERVIÇO - EIXO 04

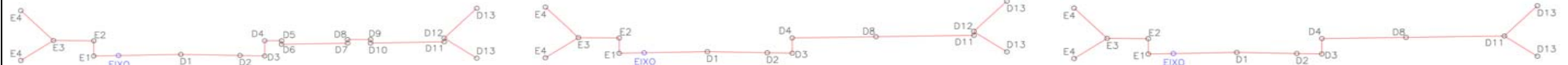
Local: Avenida Santos Dumont - Interseção com as ruas Dona Francisca, Dr. João Colin e Blumenau

Município: Joinville/SC

Data: Junho/2024

Arquivo: RCV-10651-01-02-NS-01-A

Desenho Esquemático:



PONTOS NOTÁVEIS	E4	E3	E2	E1	EIXO	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12	D13
Estaca: 0+010																		
Dist. eixo (m)	-1,213	-1,100	-0,357	-0,357	0,000	5,000	8,000	8,357	8,357	8,500	8,500	10,500	10,500	11,200	11,200	13,364	13,364	13,766
Cota (m)	5,407	5,351	5,351	4,844	4,851	4,951	4,891	4,883	5,395	5,399	5,279	5,319	5,439	5,453	5,333	5,376	5,496	5,228
E	714.645,5920	714.645,5063	714.644,9444	714.644,9444	714.644,6740	714.640,8908	714.638,6210	714.638,3507	714.638,3507	714.638,2428	714.636,7294	714.636,7294	714.636,1999	714.636,1999	714.634,5625	714.634,5625	714.634,5625	714.634,4941
N	7.092.371,2612	7.092.371,1872	7.092.370,7016	7.092.370,7016	7.092.370,4680	7.092.367,1988	7.092.365,2372	7.092.365,0037	7.092.365,0037	7.092.364,9104	7.092.364,9104	7.092.363,6026	7.092.363,6026	7.092.363,1451	7.092.363,1451	7.092.361,7301	7.092.361,7301	7.092.361,4674
Estaca: 0+017																		
Dist. eixo (m)	-1,199	-1,100	-0,357	-0,357	0,000	5,000	8,000	8,357	8,357	8,500	8,500	10,500	10,500	11,200	11,200	13,402	13,402	13,871
Cota (m)	5,406	5,357	5,357	4,850	4,857	4,957	4,897	4,889	5,401	5,405	5,285	5,325	5,445	5,459	5,339	5,383	5,503	5,190
E	714.649,8970	714.649,8220	714.649,2600	714.649,2600	714.648,9897	714.645,2065	714.642,9366	714.642,6664	714.642,6664	714.642,5585	714.642,5585	714.641,0451	714.641,0451	714.640,5156	714.640,5156	714.638,8491	714.638,8491	714.638,4941
N	7.092.366,2579	7.092.366,1931	7.092.365,7075	7.092.365,7075	7.092.365,4739	7.092.362,2047	7.092.360,2431	7.092.360,0096	7.092.360,0096	7.092.359,9163	7.092.359,9163	7.092.358,6085	7.092.358,6085	7.092.358,1510	7.092.358,1510	7.092.356,7109	7.092.356,7109	7.092.356,4041
Estaca: 0+020																		
Dist. eixo (m)	-1,176	-1,100	-0,357	-0,357	0,000	5,000	8,000	8,357	8,357	8,874	8,874	10,899	10,899	11,608	11,608	13,869	13,869	14,382
Cota (m)	5,402	5,364	5,364	4,857	4,864	4,964	4,904	4,897	5,409	5,404	5,284	5,325	5,445	5,445	5,325	5,370	5,490	5,147
E	714.652,1634	714.652,1142	714.651,6347	714.651,6347	714.651,4040	714.648,1759	714.646,2390	714.646,0084	714.646,0084	714.645,6745	714.645,6745	714.644,3672	714.644,3672	714.643,9098	714.643,9098	714.642,4500	714.642,4500	714.642,1183
N	7.092.363,9838	7.092.363,9255	7.092.363,3584	7.092.363,3584	7.092.363,0855	7.092.359,2672	7.092.356,9763	7.092.356,7035	7.092.356,7035	7.092.356,3086	7.092.356,3086	7.092.354,7623	7.092.354,7623	7.092.354,2213	7.092.354,2213	7.092.352,4946	7.092.352,4946	7.092.352,1023
Estaca: 0+030																		
Dist. eixo (m)	-1,534	-1,100	-0,357	-0,357	0,000	5,000	8,000	8,357	8,357	15,315	15,315	17,766	17,766	18,623	18,623	21,499	21,499	21,966
Cota (m)	5,612	5,395	5,395	4,888	4,895	4,995	4,935	4,928	5,440	5,435	5,315	5,364	5,484	5,484	5,364	5,422	5,542	5,230
E	714.660,6002	714.660,4962	714.660,3182	714.660,3182	714.660,2326	714.659,0340	714.658,3148	714.658,2292	714.658,2292	714.656,5613	714.656,5613	714.655,9738	714.655,9738	714.655,7683	714.655,7683	714.655,0790	714.655,0790	714.654,9670
N	7.092.360,0679	7.092.359,6470	7.092.358,9260	7.092.358,9260	7.092.358,5791	7.092.353,7249	7.092.350,8124	7.092.350,4656	7.092.350,4656	7.092.343,7107	7.092.343,7107	7.092.341,3314	7.092.341,3314	7.092.340,4989	7.092.340,4989	7.092.337,7074	7.092.337,7074	7.092.337,2538
Estaca: 0+040																		
Dist. eixo (m)	-1,207	-1,100	-0,357	-0,357	0,000	5,000	8,000											
Cota (m)	5,373	5,427	5,427	4,920	4,927	5,027	4,967											
E	714.669,8833	714.669,9064	714.670,0668	714.670,0668	714.670,1440	714.671,2239	714.671,8718											
N	7.092.359,6365	7.092.359,5323	7.092.358,8072	7.092.358,8072	7.092.358,4583	7.092.353,5763	7.092.350,6471											
Estaca: 0+046																		
Dist. eixo (m)	-1,246	-1,100	-1,000	-1,000	0,000	4,000	8,000											
Cota (m)	5,374	5,447	5,447	4,027	4,047	4,127	4,047											
E	714.675,4785	714.675,5501	714.675,5992	714.675,5992	714.676,0883	714.678,0454	714.680,0026											
N	7.092.361,8131	7.092.361,6856	7.092.361,5981	7.092.361,5981	7.092.360,7262	7.092.357,2377	7.092.353,7492											
Estaca: 0+050																		
Dist. eixo (m)	-1,319	-1,100	-1,000	-1,000	0,000	4,000	8,000											
Cota (m)	5,567	5,458	5,458	4,038	4,058	4,138	4,058											
E	714.678,2531	714.678,3902	714.678,4531	714.678,4531	714.679,0797	714.681,5870	714.684,0943											
N	7.092.363,7756	7.092.363,6052	7.092.363,5271	7.092.363,5271	7.092.362,7481	7.092.359,6315	7.092.356,5148											
Estaca: 0+060																		
Dist. eixo (m)	-1,603	-1,100	-1,000	-1,000	0,000	4,000	8,000											
Cota (m)	5,741	5,490	5,490	4,070	4,090	4,170	4,090											
E	714.683,7293	714.684,1858	714.684,2768	714.684,2768	714.685,1840	714.688,8139	714.692,4438											
N	7.092.371,2311	7.092.371,0198	7.092.370,9777	7.092.370,9777	7.092.370,5577	7.092.368,8773	7.092.367,1969											
Estaca: 0+070																		
Dist. eixo (m)	-2,055	-1,100	-1,000	-1,000	0,000	5,250	10,500	11,499	11,499				13,000			14,500	14,500	15,000
Cota (m)	5,044	5,521	5,521	4,101	4,121	4,226	4,121	4,101	5,419				5,449			5,479	5,599	5,266
E	714.685,1351	714.686,0893	714.686,1896	714.686,1896	714.687,1889	714.692,4371	714.697,6853	714.698,6844	714.698,6844				714.700,1844			714.701,6839	714.701,6839	714.702,1838
N	7.092.380,2111	7.092.380,2361	7.092.380,2388	7.092.380,2388	7.092.380,2650	7.092.380,4026	7.092.380,5401	7.092.380,5663	7.092.380,5663				7.092.380,6057			7.092.380,6450	7.092.380,6450	7.092.380,6581
Estaca: 0+076																		
Dist. eixo (m)	-1,901	-1,100	-1,000	-1,000	0,000	5,250	10,500	11,499	11,499				13,000			14,500	14,500	15,000
Cota (m)	5,140	5,541	5,541	4,121	4,141	4,246	4,141	4,121	5,439				5,469			5,499	5,619	5,285
E	714.684,3499	714.685,1128	714.685,2083	714.685,2083	714.686,1604	714.691,1604	714.696,1603	714.697,1122	714.697,1122				714.698,5412			714.699,9698	714.699,9698	714.700,4460
N	7.092.385,7478	7.092.385,9921	7.092.386,0227	7.092.386,0227	7.092.386,3275	7.092.387,9285	7.092.389,5295	7.092.389,8343	7.092.389,8343				7.092.390,2919			7.092.390,7493	7.092.390,7493	7.092.390,9018

PROJETO DE ENGENHARIA VIÁRIA
DUPLICAÇÃO DA AVENIDA SANTOS DUMONT
NOTA DE SERVIÇO - EIXO 04

Local: Avenida Santos Dumont - Interseção com as ruas Dona Francisca, Dr. João Colin e Blumenau

Município: Joinville/SC

Data: Junho/2024

Arquivo: RCV-10651-01-02-NS-01-A

Desenho Esquemático:



PONTOS NOTÁVEIS	E4	E3	E2	E1	EIXO	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12	D13
Estaca: 0+080																		
Dist. eixo (m)	-1,691	-1,100	-1,000	-1,000	0,000	5,250	10,500	11,499	11,499				13,000			14,500	14,500	15,000
Cota (m)	5,257	5,553	5,553	4,133	4,153	4,258	4,153	4,133	5,451				5,481			5,511	5,631	5,297
E	714.683,3818	714.683,9448	714.684,0404	714.684,0404	714.684,9924	714.689,9924	714.694,9923	714.695,9442	714.695,9442				714.697,3732			714.698,8018	714.698,8018	714.699,2780
N	7.092.389,4595	7.092.389,6398	7.092.389,6704	7.092.389,6704	7.092.389,9752	7.092.391,5762	7.092.393,1772	7.092.393,4820	7.092.393,4820				7.092.393,9396			7.092.394,3970	7.092.394,3970	7.092.394,5494
Estaca: 0+090																		
Dist. eixo (m)	-1,600	-1,100	-1,000	-1,000	0,000	5,250	10,500	11,499	11,499				13,000			14,500	14,500	14,906
Cota (m)	5,334	5,584	5,584	4,164	4,184	4,289	4,184	4,164	5,482				5,512			5,542	5,662	5,392
E	714.680,4193	714.680,8954	714.680,9909	714.680,9909	714.681,9430	714.686,9429	714.691,9428	714.692,8947	714.692,8947				714.694,3238			714.695,7523	714.695,7523	714.696,1389
N	7.092.399,0111	7.092.399,1635	7.092.399,1941	7.092.399,1941	7.092.399,4989	7.092.401,0999	7.092.402,7009	7.092.403,0057	7.092.403,0057				7.092.403,4632			7.092.403,9207	7.092.403,9207	7.092.404,0444
Estaca: 0+100																		
Dist. eixo (m)	-1,399	-1,100	-1,000	-1,000	0,000	5,250	10,500	11,499	11,499				13,000			14,500	14,500	14,771
Cota (m)	5,467	5,616	5,616	4,196	4,216	4,321	4,216	4,196	5,514				5,544			5,574	5,694	5,513
E	714.677,5616	714.677,8459	714.677,9414	714.677,9414	714.678,8935	714.683,8934	714.688,8934	714.689,8452	714.689,8452				714.691,2743			714.692,7028	714.692,7028	714.692,9614
N	7.092.408,5962	7.092.408,6872	7.092.408,7178	7.092.408,7178	7.092.409,0226	7.092.410,6236	7.092.412,2246	7.092.412,5294	7.092.412,5294				7.092.412,9869			7.092.413,4444	7.092.413,4444	7.092.413,5271
Estaca: 0+110																		
Dist. eixo (m)	-1,169	-1,100	-1,000	-1,000	0,000	5,250	10,500											
Cota (m)	5,613	5,647	5,647	4,227	4,247	4,352	4,247											
E	714.674,7306	714.674,7964	714.674,8919	714.674,8919	714.675,8440	714.680,8440	714.685,8439											
N	7.092.418,1898	7.092.418,2109	7.092.418,2415	7.092.418,2415	7.092.418,5463	7.092.420,1473	7.092.421,7483											
Estaca: 0+111																		
Dist. eixo (m)	-1,148	-1,100	-1,000	-1,000	0,000	5,250	10,500											
Cota (m)	5,626	5,650	5,650	4,230	4,250	4,355	4,250											
E	714.674,4674	714.674,5128	714.674,6084	714.674,6084	714.675,5604	714.680,5604	714.685,5603											
N	7.092.419,0819	7.092.419,0965	7.092.419,1271	7.092.419,1271	7.092.419,4319	7.092.421,0329	7.092.422,6339											
Estaca: 0+120																		
Dist. eixo (m)	-1,147	-1,100	-1,000	-1,000	0,000	5,242	10,500											
Cota (m)	5,655	5,678	5,678	4,258	4,278	4,383	4,278											
E	714.670,3358	714.670,3720	714.670,4490	714.670,4490	714.671,2163	714.675,2397	714.679,2752											
N	7.092.426,5946	7.092.426,6248	7.092.426,6891	7.092.426,6891	7.092.427,3300	7.092.430,6903	7.092.434,0608											
Estaca: 0+130																		
Dist. eixo (m)	-1,446	-1,100	-0,357	-0,357	0,000	5,000	10,000	10,357	10,357							11,100		11,309
Cota (m)	5,506	5,679	5,679	5,172	5,179	5,279	5,179	5,171	5,683							5,699		5,559
E	714.662,7611	714.662,9113	714.663,2339	714.663,2339	714.663,3892	714.665,5614	714.667,7336	714.667,8888	714.667,8888							714.668,2115		714.668,3024
N	7.092.432,1299	7.092.432,4413	7.092.433,1102	7.092.433,1102	7.092.433,4321	7.092.437,9356	7.092.442,4391	7.092.442,7608	7.092.442,7608							7.092.443,4299		7.092.443,6184
Estaca: 0+134																		
Dist. eixo (m)	-1,476	-1,100	-0,357	-0,357	0,000	5,000	10,000	10,357	10,357							11,100		11,269
Cota (m)	5,475	5,663	5,663	5,156	5,163	5,263	5,163	5,156	5,668							5,683		5,571
E	714.659,0314	714.659,1313	714.659,3286	714.659,3286	714.659,4236	714.660,7520	714.662,0805	714.662,1754	714.662,1754							714.662,3728		714.662,4175
N	7.092.433,4982	7.092.433,8606	7.092.434,5765	7.092.434,5765	7.092.434,9210	7.092.439,7413	7.092.444,5616	7.092.444,9059	7.092.444,9059							7.092.445,6221		7.092.445,7845
Estaca: 0+140																		
Dist. eixo (m)	-1,483	-1,100	-1,000	-1,000	0,000	5,250	10,500											
Cota (m)	5,436	5,628	5,628	4,208	4,228	4,333	4,228											
E	714.653,7056	714.653,7148	714.653,7172	714.653,7172	714.653,7411	714.653,8665	714.653,9919											
N	7.092.434,2760	7.092.434,6593	7.092.434,7596	7.092.434,7596	7.092.435,7590	7.092.441,0075	7.092.446,2560											
Estaca: 0+150																		
Dist. eixo (m)	-1,206	-1,100	-1,000	-1,000	0,000	5,250	10,500											
Cota (m)	5,504	5,557	5,557	4,137	4,157	4,262	4,157											
E	714.644,4642	714.644,4229	714.644,3837	714.644,3837	714.643,9929	714.641,9405	714.639,8881											
N	7.092.432,7857	7.092.432,8831	7.092.432,9754	7.092.432,9754	7.092.433,8955	7.092.438,7277	7.092.443,5599											

PROJETO DE ENGENHARIA VIÁRIA
DUPLICAÇÃO DA AVENIDA SANTOS DUMONT
NOTA DE SERVIÇO - EIXO 04

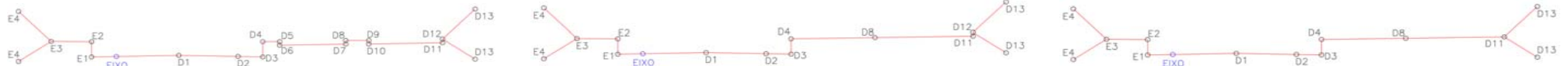
Local: Avenida Santos Dumont - Interseção com as ruas Dona Francisca, Dr. João Colin e Blumenau

Município: Joinville/SC

Data: Junho/2024

Arquivo: RCV-10651-01-02-NS-01-A

Desenho Esquemático:



PONTOS NOTÁVEIS	E4	E3	E2	E1	EIXO	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12	D13
Estaca: 0+158																		
Dist. eixo (m)	-1,264	-1,100	-1,000	-1,000	0,000	5,250	10,500											
Cota (m)	5,430	5,512	5,512	4,092	4,112	4,217	4,112											
E	714.638,4666	714.638,3580	714.638,2916	714.638,2916	714.637,6301	714.634,1563	714.630,6824											
N	7.092.428,9376	7.092.429,0607	7.092.429,1359	7.092.429,1359	7.092.429,8855	7.092.433,8218	7.092.437,7582											
Estaca: 0+160																		
Dist. eixo (m)	-1,299	-1,100	-1,000	-1,000	0,000	5,250	10,500											
Cota (m)	5,401	5,501	5,501	4,081	4,101	4,206	4,101											
E	714.636,6555	714.636,5236	714.636,4572	714.636,4572	714.635,7957	714.632,3219	714.628,8480											
N	7.092.427,2924	7.092.427,4419	7.092.427,5171	7.092.427,5171	7.092.428,2666	7.092.432,2030	7.092.436,1393											
Estaca: 0+170																		
Dist. eixo (m)	-1,270	-1,100	-1,000	-1,000	0,000	5,250	10,500											
Cota (m)	5,385	5,470	5,470	4,050	4,070	4,175	4,070											
E	714.629,1382	714.629,0258	714.628,9594	714.628,9594	714.628,2979	714.624,8241	714.621,3502											
N	7.092.420,6977	7.092.420,8250	7.092.420,9002	7.092.420,9002	7.092.421,6497	7.092.425,5861	7.092.429,5224											
Estaca: 0+173																		
Dist. eixo (m)	-1,417	-1,100	-1,000	-1,000	0,000	5,250	10,500											
Cota (m)	5,305	5,463	5,463	4,043	4,063	4,168	4,063											
E	714.626,7886	714.626,5789	714.626,5125	714.626,5125	714.625,8510	714.622,3772	714.618,9033											
N	7.092.418,4280	7.092.418,6656	7.092.418,7408	7.092.418,7408	7.092.419,4903	7.092.423,4267	7.092.427,3630											
Estaca: 0+180																		
Dist. eixo (m)	-1,169	-1,100	-1,000	-1,000	0,000	5,250	10,500											
Cota (m)	5,484	5,449	5,449	4,029	4,049	4,154	4,049											
E	714.622,7817	714.622,7206	714.622,6313	714.622,6313	714.621,7416	714.617,0692	714.612,3968											
N	7.092.413,6691	7.092.413,7004	7.092.413,7462	7.092.413,7462	7.092.414,2020	7.092.416,5959	7.092.418,9899											
Estaca: 0+187																		
Dist. eixo (m)	-1,457	-1,100	-0,357	-0,357	0,000	5,000	9,821											
Cota (m)	5,256	5,435	5,435	4,928	4,935	5,035	4,938											
E	714.621,2560	714.620,8999	714.620,1590	714.620,1590	714.619,8024	714.614,8138	714.610,0039											
N	7.092.407,1107	7.092.407,1347	7.092.407,1849	7.092.407,1849	7.092.407,2090	7.092.407,5464	7.092.407,8717											
Estaca: 0+190																		
Dist. eixo (m)	-1,328	-1,100	-0,357	-0,357	0,000	5,000	8,000											
Cota (m)	5,315	5,429	5,429	4,922	4,929	5,029	4,969											
E	714.621,1457	714.620,9183	714.620,1781	714.620,1781	714.619,8220	714.614,8388	714.611,8489											
N	7.092.404,6275	7.092.404,6088	7.092.404,5479	7.092.404,5479	7.092.404,5186	7.092.404,1086	7.092.403,8627											
Estaca: 0+200																		
Dist. eixo (m)	-1,324	-1,100	-0,357	-0,357	0,000	5,000	8,000	8,357	8,357	8,500	8,500	10,500	10,500	11,200	11,200	13,923	13,923	14,247
Cota (m)	5,297	5,409	5,409	4,902	4,909	5,009	4,949	4,942	5,454	5,457	5,337	5,377	5,497	5,511	5,391	5,445	5,565	5,350
E	714.624,3620	714.624,1821	714.623,5854	714.623,5854	714.623,2983	714.619,2807	714.616,8702	714.616,5833	714.616,5833	714.616,4686	714.616,4686	714.614,8615	714.614,8615	714.614,2992	714.614,2992	714.612,1108	714.612,1108	714.611,8510
N	7.092.396,0670	7.092.395,9338	7.092.395,4917	7.092.395,4917	7.092.395,2790	7.092.392,3025	7.092.390,5166	7.092.390,3040	7.092.390,3040	7.092.390,2191	7.092.390,2191	7.092.389,0284	7.092.389,0284	7.092.388,6118	7.092.388,6118	7.092.386,9905	7.092.386,9905	7.092.386,7980
Estaca: 0+201																		
Dist. eixo (m)	-1,325	-1,100	-0,357	-0,357	0,000	5,000	8,000	8,357	8,357	8,500	8,500	10,500	10,500	11,200	11,200	13,297	13,297	13,602
Cota (m)	5,293	5,406	5,406	4,899	4,906	5,006	4,946	4,939	5,451	5,454	5,334	5,374	5,494	5,508	5,388	5,430	5,550	5,347
E	714.625,1451	714.624,9745	714.624,4126	714.624,4126	714.624,1422	714.620,3591	714.618,0892	714.617,8190	714.617,8190	714.617,7111	714.617,7111	714.616,1977	714.616,1977	714.615,6682	714.615,6682	714.614,0816	714.614,0816	714.613,8508
N	7.092.395,0916	7.092.394,9442	7.092.394,4586	7.092.394,4586	7.092.394,2250	7.092.390,9557	7.092.388,9942	7.092.388,7607	7.092.388,7607	7.092.388,6674	7.092.388,6674	7.092.387,3595	7.092.387,3595	7.092.386,9020	7.092.386,9020	7.092.385,5309	7.092.385,5309	7.092.385,3314
Estaca: 0+210																		
Dist. eixo (m)	-1,301	-1,100	-0,357	-0,357	0,000	5,000	8,000	8,357	8,357	8,500	8,500	10,500	10,500	11,200	11,200	13,230	13,230	13,736
Cota (m)	5,288	5,388	5,388	4,881	4,888	4,988	4,928	4,921	5,433	5,436	5,316	5,356	5,476	5,411	5,370	5,411	5,531	5,194
E	714.630,7823	714.630,6299	714.630,0680	714.630,0680	714.629,7977	714.626,0145	714.623,7447	714.623,4744	714.623,4744	714.623,3665	714.623,3665	714.621,8531	714.621,8531	714.621,3236	714.621,3236	714.619,7875	714.619,7875	714.619,4049
N	7.092.388,5315	7.092.388,3998	7.092.387,9143	7.092.387,9143	7.092.387,6806	7.092.384,4114	7.092.382,4498	7.092.382,2163	7.092.382,2163	7.092.382,1230	7.092.382,1230	7.092.380,8152	7.092.380,8152	7.092.380,3576	7.092.380,3576	7.092.379,0301	7.092.379,0301	7.092.378,6995

PROJETO DE ENGENHARIA VIÁRIA
DUPLICAÇÃO DA AVENIDA SANTOS DUMONT
NOTA DE SERVIÇO - EIXO 05

Local: Avenida Santos Dumont - Interseção com as ruas Dona Francisca, Dr. João Colin e Blumenau

Data: Junho/2024

Município: Joinville/SC

Arquivo: RCV-10651-01-02-NS-01-A

Desenho Esquemático:



PONTOS NOTÁVEIS	E7	E6	E5	E4	E3	E2	E1	EIXO	D1	D2	D3	D4
Estaca: 0+000												
Dist. eixo (m)	-10,346	-9,968	-9,968	-7,357	-7,357	-7,000	-3,500	0,000	0,357	0,357	1,100	1,359
Cota (m)	5,109	5,360	5,240	5,188	4,796	4,803	4,873	4,803	4,796	5,303	5,303	5,174
E	714.662,9838	714.663,3607	714.663,3607	714.665,9685	714.665,9685	714.666,3255	714.669,8214	714.673,3174	714.673,6742	714.673,6742	714.674,4162	714.674,6753
N	7.092.323,3792	7.092.323,3973	7.092.323,3973	7.092.323,5224	7.092.323,5224	7.092.323,5396	7.092.323,7074	7.092.323,8752	7.092.323,8923	7.092.323,8923	7.092.323,9279	7.092.323,9404
Estaca: 0+010												
Dist. eixo (m)			-11,784	-7,357	-7,357	-7,000	-3,500	0,000	0,357	0,357	1,100	1,231
Cota (m)			5,331	5,232	4,840	4,846	4,916	4,846	4,839	5,346	5,346	5,281
E			714.661,0679	714.665,4891	714.665,4891	714.665,8460	714.669,3420	714.672,8380	714.673,1947	714.673,1947	714.673,9367	714.674,0674
N			7.092.333,2987	7.092.333,5109	7.092.333,5109	7.092.333,5281	7.092.333,6959	7.092.333,8637	7.092.333,8808	7.092.333,8808	7.092.333,9164	7.092.333,9227
Estaca: 0+020												
Dist. eixo (m)			-12,000	-7,357	-7,357	-7,000	-3,500	0,000	0,357	0,357	1,100	1,173
Cota (m)			5,400	5,390	4,998	4,889	4,959	4,889	4,882	5,389	5,389	5,426
E			714.662,8315	714.667,2176	714.667,2176	714.667,5552	714.670,8619	714.674,1686	714.674,5060	714.674,5060	714.675,2078	714.675,2770
N			7.092.347,6416	7.092.346,1199	7.092.346,1199	7.092.346,0028	7.092.344,8556	7.092.343,7084	7.092.343,5913	7.092.343,5913	7.092.343,3479	7.092.343,3239
Estaca: 0+023												
Dist. eixo (m)							-7,000	0,000	0,280	0,280	1,100	1,165
Cota (m)							5,041	4,901	4,896	5,403	5,401	5,369
E							714.668,9108	714.675,2276	714.675,4802	714.675,4802	714.676,2203	714.676,2785
N							7.092.349,3033	7.092.346,2869	7.092.346,1663	7.092.346,1663	7.092.345,8129	7.092.345,7851
Estaca: 0+030												
Dist. eixo (m)							-1,000	0,000	0,280	0,280	1,100	1,422
Cota (m)							4,942	4,933	4,927	5,434	5,433	5,271
E							714.678,4814	714.679,2240	714.679,4318	714.679,4318	714.680,0408	714.680,2799
N							7.092.352,9290	7.092.352,2592	7.092.352,0718	7.092.352,0718	7.092.351,5225	7.092.351,3068
Estaca: 0+035												
Dist. eixo (m)								0,000	0,280	0,280	1,100	1,618
Cota (m)								4,955	4,949	5,456	5,455	5,195
E								714.683,0200	714.683,1870	714.683,1870	714.683,6714	714.683,9775
N								7.092.355,6902	7.092.355,4620	7.092.355,4620	7.092.354,8002	7.092.354,3820

PROJETO DE ENGENHARIA VIÁRIA
DUPLICAÇÃO DA AVENIDA SANTOS DUMONT
NOTA DE SERVIÇO - EIXO 06

Local: Avenida Santos Dumont - Interseção com as ruas Dona Francisca, Dr. João Colin e Blumenau

Data: Junho/2024

Município: Joinville/SC

Arquivo: RCV-10651-01-02-NS-01-A

Desenho Esquemático:



PONTOS NOTÁVEIS			EIXO	D1			
Estaca: 0+000							
Dist. eixo (m)			0,000	5,000			
Cota (m)			4,822	4,722			
E			714.675,2953	714.679,6854			
N			7.092.321,4853	7.092.319,0921			
Estaca: 0+007							
Dist. eixo (m)			0,000	5,000			
Cota (m)			4,906	4,806			
E			714.679,5622	714.683,1106			
N			7.092.327,2402	7.092.323,7177			
Estaca: 0+010							
Dist. eixo (m)			0,000	5,000			
Cota (m)			4,938	4,838			
E			714.681,6505	714.684,7813			
N			7.092.329,1198	7.092.325,2214			
Estaca: 0+014							
Dist. eixo (m)			0,000	5,000			
Cota (m)			4,977	4,877			
E			714.685,1781	714.687,6034			
N			7.092.331,4895	7.092.327,1171			
Estaca: 0+020							
Dist. eixo (m)			0,000	5,000			
Cota (m)			4,994	4,894			
E			714.690,2022	714.692,6275			
N			7.092.334,2763	7.092.329,9039			
Estaca: 0+030							
Dist. eixo (m)			0,000	5,000			
Cota (m)			4,929	4,829			
E			714.698,9470	714.701,3723			
N			7.092.339,1269	7.092.334,7545			
Estaca: 0+036							
Dist. eixo (m)			0,000	5,000			
Cota (m)			4,850	4,808			
E			714.704,4706	714.706,8957			
N			7.092.342,1907	7.092.337,8185			

PROJETO DE ENGENHARIA VIÁRIA
DUPLICAÇÃO DA AVENIDA SANTOS DUMONT
NOTA DE SERVIÇO - EIXO 07

Local: Avenida Santos Dumont - Interseção com as ruas Dona Francisca, Dr. João Colin e Blumenau

Data: Junho/2024

Município: Joinville/SC

Arquivo: RCV-10651-01-02-NS-01-A

Desenho Esquemático:



PONTOS NOTÁVEIS	E8	E7	E6	E5	E4	E3	E2	E1	EIXO	D1	D2	D3	D4	D5
Estaca: 0+000														
Dis. eixo (m)	-13,813	-9,924	-7,924	-7,924	-7,781	-7,781	-7,424	-3,924	0,000	0,357	0,357	3,496	3,496	3,755
Cota (m)	5,164	5,086	5,046	5,166	5,164	4,652	4,658	4,728	4,650	4,643	5,035	5,098	5,218	5,045
E	714.733,3523	714.734,6220	714.735,2749	714.735,2749	714.735,3215	714.735,3215	714.735,4382	714.736,5809	714.737,8619	714.737,9785	714.737,9785	714.739,0033	714.739,0033	714.739,0878
N	7.092.319,0387	7.092.322,7145	7.092.324,6049	7.092.324,6049	7.092.324,7398	7.092.324,7398	7.092.325,0775	7.092.328,3858	7.092.332,0946	7.092.332,4321	7.092.332,4321	7.092.335,3990	7.092.335,3990	7.092.335,6436
Estaca: 0+010														
Dis. eixo (m)	-13,000	-10,055	-8,055	-8,055	-7,913	-7,913	-7,555	-4,055	0,000					
Cota (m)	5,168	5,109	5,069	5,189	5,186	4,674	4,681	4,751	4,670					
E	714.724,1656	714.725,1270	714.725,7800	714.725,7800	714.725,8265	714.725,8265	714.725,9432	714.727,0859	714.728,4099					
N	7.092.323,0718	7.092.325,8550	7.092.327,7454	7.092.327,7454	7.092.327,8803	7.092.327,8803	7.092.328,2180	7.092.331,5262	7.092.335,3594					
Estaca: 0+011														
Dis. eixo (m)	-13,000	-10,029	-8,029	-8,029	-7,886	-7,886	-7,529	-4,029	0,000					
Cota (m)	5,171	5,111	5,071	5,191	5,188	4,676	4,683	4,753	4,673					
E	714.722,9345	714.723,9044	714.724,5574	714.724,5574	714.724,6040	714.724,6040	714.724,7207	714.725,8633	714.727,1788					
N	7.092.323,4970	7.092.326,3051	7.092.328,1955	7.092.328,1955	7.092.328,3304	7.092.328,3304	7.092.328,6681	7.092.331,9763	7.092.335,7847					
Estaca: 0+020														
Dis. eixo (m)	-11,453	-9,732	-7,732	-7,732	-7,589	-7,589	-7,232	-3,732	0,000					
Cota (m)	5,157	5,123	5,083	5,203	5,200	4,688	4,695	4,765	4,690					
E	714.713,5336	714.714,3977	714.715,4016	714.715,4016	714.715,4732	714.715,4732	714.715,6526	714.717,4094	714.719,2825					
N	7.092.329,4929	7.092.330,9817	7.092.332,7115	7.092.332,7115	7.092.332,8349	7.092.332,8349	7.092.333,1440	7.092.336,1711	7.092.339,3986					
Estaca: 0+026														
Dis. eixo (m)	-11,228	-9,561	-7,561	-7,561	-7,419	-7,419	-7,061	-3,561	0,000					
Cota (m)	5,169	5,136	5,096	5,216	5,213	4,701	4,708	4,778	4,707					
E	714.707,8071	714.708,8172	714.710,0288	714.710,0288	714.710,1152	714.710,1152	714.710,3317	714.712,4520	714.714,6094					
N	7.092.333,5826	7.092.334,9092	7.092.336,5004	7.092.336,5004	7.092.336,6139	7.092.336,6139	7.092.336,8982	7.092.339,6828	7.092.342,5162					
Estaca: 0+030														
Dis. eixo (m)							-7,000	-3,500	0,000					
Cota (m)							4,728	4,798	4,728					
E							714.706,4984	714.708,8792	714.711,2601					
N							7.092.340,2030	7.092.342,7685	7.092.345,3340					
Estaca: 0+040														
Dis. eixo (m)	-8,207			-8,100	-8,000	-8,000	-7,000	-3,500	0,000	0,999	0,999	4,000	4,000	4,168
Cota (m)	5,249			5,320	5,318	4,806	3,900	3,970	3,900	3,880	5,198	5,258	5,378	5,266
E	714.698,0121			714.698,1000	714.698,1827	714.698,1827	714.699,0068	714.701,8918	714.704,7769	714.705,6008	714.705,6008	714.708,0741	714.708,0741	714.708,2128
N	7.092.348,1960			7.092.348,2564	7.092.348,3131	7.092.348,3131	7.092.348,8791	7.092.350,8606	7.092.352,8421	7.092.353,4080	7.092.353,4080	7.092.355,1067	7.092.355,1067	7.092.355,2020

PROJETO DE ENGENHARIA VIÁRIA
DUPLICAÇÃO DA AVENIDA SANTOS DUMONT
NOTA DE SERVIÇO - EIXO 07

Local: Avenida Santos Dumont - Interseção com as ruas Dona Francisca, Dr. João Colin e Blumenau

Data: Junho/2024

Município: Joinville/SC

Arquivo: RCV-10651-01-02-NS-01-A

Desenho Esquemático:



PONTOS NOTÁVEIS	E8	E7	E6	E5	E4	E3	E2	E1	EIXO	D1	D2	D3	D4	D5
Estaca: 0+050														
Dis. eixo (m)	-8,118			-8,100	-8,000	-8,000	-7,000	-3,500	0,000	0,999	0,999	4,000	4,000	4,076
Cota (m)	5,399			5,412	5,410	4,898	3,992	4,062	3,992	3,972	5,290	5,350	5,470	5,419
E	714.692,3894			714.692,4046	714.692,4873	714.692,4873	714.693,3114	714.696,1964	714.699,0815	714.699,9054	714.699,9054	714.702,3787	714.702,3787	714.702,4411
N	7.092.356,5384			7.092.356,5488	7.092.356,6056	7.092.356,6056	7.092.357,1716	7.092.359,1531	7.092.361,1346	7.092.361,7004	7.092.361,7004	7.092.363,3992	7.092.363,3992	7.092.363,4420
Estaca: 0+056														
Dis. eixo (m)								-4,989	0,000	0,999	0,999	4,000	4,000	4,299
Cota (m)								4,086	4,048	4,028	5,346	5,406	5,526	5,825
E								714.691,7960	714.696,6957	714.697,6772	714.697,6772	714.700,6238	714.700,6238	714.700,9175
N								7.092.365,8833	7.092.366,8249	7.092.367,0135	7.092.367,0135	7.092.367,5798	7.092.367,5798	7.092.367,6362
Estaca: 0+060														
Dis. eixo (m)								-2,669	0,000	0,999	0,999	4,000	4,000	4,041
Cota (m)								4,098	4,082	4,062	5,380	5,440	5,560	5,533
E								714.693,7913	714.696,4554	714.697,4530	714.697,4530	714.700,4476	714.700,4476	714.700,4884
N								7.092.370,7594	7.092.370,5926	7.092.370,5302	7.092.370,5302	7.092.370,3428	7.092.370,3428	7.092.370,3403
Estaca: 0+062														
Dis. eixo (m)								-2,315	0,000	0,999	0,999	4,000	4,000	4,357
Cota (m)								4,105	4,104	4,084	5,402	5,462	5,582	5,344
E								714.694,5363	714.696,7946	714.697,7695	714.697,7695	714.700,6963	714.700,6963	714.701,0445
N								7.092.373,4699	7.092.372,9599	7.092.372,7398	7.092.372,7398	7.092.372,0788	7.092.372,0788	7.092.372,0002

PROJETO DE ENGENHARIA VIÁRIA
DUPLICAÇÃO DA AVENIDA SANTOS DUMONT
NOTA DE SERVIÇO - EIXO 08

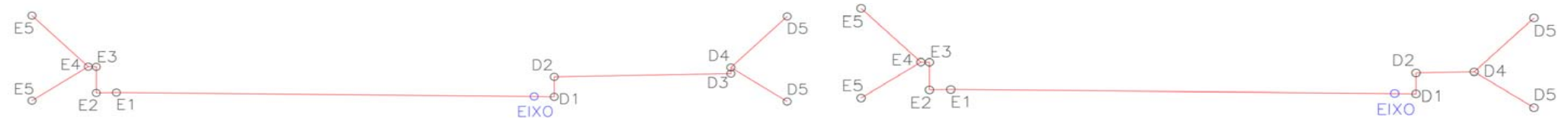
Local: Avenida Santos Dumont - Interseção com as ruas Dona Francisca, Dr. João Colin e Blumenau

Data: Junho/2024

Município: Joinville/SC

Arquivo: RCV-10651-01-02-NS-01-A

Desenho Esquemático:



PONTOS NOTÁVEIS	E5	E4	E3	E2	E1	EIXO	D1	D2	D3	D4	D5
Estaca: 0+000											
Dist. eixo (m)		-11,872	-11,116	-11,116	-10,772	0,000	0,357	0,357	1,600		
Cota (m)		5,977	5,977	5,484	5,477	5,411	5,404	5,796	5,821		
E		714.665,8835	714.665,1287	714.665,1287	714.664,7862	714.654,0405	714.653,6842	714.653,6842	714.652,4444		
N		7.092.484,3533	7.092.484,3003	7.092.484,3003	7.092.484,2762	7.092.483,5209	7.092.483,4959	7.092.483,4959	7.092.483,4087		
Estaca: 0+004											
Dist. eixo (m)		-11,891	-11,135	-11,135	-10,791	0,000	0,357	0,357	3,303		
Cota (m)		5,984	5,984	5,491	5,484	5,371	5,363	5,755	5,815		
E		714.666,2134	714.665,4586	714.665,4586	714.665,1161	714.654,3513	714.653,9951	714.653,9951	714.651,0561		
N		7.092.479,9321	7.092.479,8791	7.092.479,8791	7.092.479,8550	7.092.479,0984	7.092.479,0733	7.092.479,0733	7.092.478,8668		
Estaca: 0+009											
Dist. eixo (m)		-11,881	-11,124	-11,124	-10,781	0,000	0,357	0,357	3,340		
Cota (m)		5,991	5,991	5,498	5,491	5,330	5,323	5,715	5,775		
E		714.666,5169	714.665,7621	714.665,7621	714.665,4196	714.654,6655	714.654,3093	714.654,3093	714.651,3340		
N		7.092.475,4615	7.092.475,4085	7.092.475,4085	7.092.475,3844	7.092.474,6285	7.092.474,6035	7.092.474,6035	7.092.474,3944		
Estaca: 0+010											
Dist. eixo (m)		-11,904	-11,147	-11,147	-10,804	0,000	0,357	0,357	3,339		
Cota (m)		5,994	5,994	5,501	5,494	5,320	5,313	5,705	5,765		
E		714.666,6190	714.665,8627	714.665,8627	714.665,5196	714.654,7220	714.654,3651	714.654,3651	714.651,3853		
N		7.092.473,9488	7.092.473,9231	7.092.473,9231	7.092.473,9114	7.092.473,5444	7.092.473,5323	7.092.473,5323	7.092.473,4310		
Estaca: 0+020											
Dist. eixo (m)		-12,100	-11,343	-11,343	-11,000	0,000	0,357	0,357	3,000		
Cota (m)		5,949	5,949	5,456	5,449	5,229	5,222	5,614	5,667		
E		714.664,9671	714.664,2441	714.664,2441	714.663,9160	714.653,4052	714.653,0639	714.653,0639	714.650,5386		
N		7.092.460,1098	7.092.460,3330	7.092.460,3330	7.092.460,4342	7.092.463,6781	7.092.463,7834	7.092.463,7834	7.092.464,5628		

PROJETO DE ENGENHARIA VIÁRIA
DUPLICAÇÃO DA AVENIDA SANTOS DUMONT
NOTA DE SERVIÇO - EIXO 08

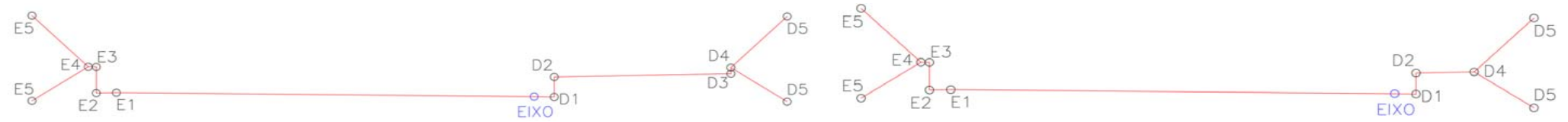
Local: Avenida Santos Dumont - Interseção com as ruas Dona Francisca, Dr. João Colin e Blumenau

Data: Junho/2024

Município: Joinville/SC

Arquivo: RCV-10651-01-02-NS-01-A

Desenho Esquemático:



PONTOS NOTÁVEIS	E5	E4	E3	E2	E1	EIXO	D1	D2	D3	D4	D5
Estaca: 0+023											
Dist. eixo (m)	-12,513	-12,100	-11,969	-11,969	-11,000	0,000	0,999	0,999		1,100	1,322
Cota (m)	5,650	5,925	5,925	4,544	4,525	4,305	4,285	5,705		5,705	5,927
E	714.664,0796	714.663,6975	714.663,5760	714.663,5760	714.662,6796	714.652,5005	714.651,5756	714.651,5756		714.651,4826	714.651,2775
N	7.092.456,4103	7.092.456,5668	7.092.456,6165	7.092.456,6165	7.092.456,9837	7.092.461,1534	7.092.461,5322	7.092.461,5322		7.092.461,5703	7.092.461,6543
Estaca: 0+030											
Dist. eixo (m)	-12,501	-12,100	-11,969	-11,969	-11,000	0,000	0,999	0,999		1,100	1,355
Cota (m)	5,591	5,859	5,859	4,478	4,459	4,239	4,219	5,639		5,639	5,894
E	714.659,0141	714.658,6906	714.658,5847	714.658,5847	714.657,8035	714.648,9326	714.648,1266	714.648,1266		714.648,0455	714.647,8399
N	7.092.447,3937	7.092.447,6309	7.092.447,7085	7.092.447,7085	7.092.448,2813	7.092.454,7858	7.092.455,3768	7.092.455,3768		7.092.455,4362	7.092.455,5870
Estaca: 0+036											
Dist. eixo (m)					-5,505	0,000	0,759	0,759		1,100	1,422
Cota (m)					4,199	4,180	4,165	5,585		5,580	5,902
E					714.648,2329	714.644,5900	714.644,0877	714.644,0877		714.643,8621	714.643,6493
N					7.092.445,9039	7.092.450,0317	7.092.450,6009	7.092.450,6009		7.092.450,8565	7.092.451,0976
Estaca: 0+040											
Dist. eixo (m)					-3,488	0,000	0,759	0,759		1,100	1,447
Cota (m)					4,179	4,154	4,138	5,558		5,554	5,901
E					714.644,2371	714.641,9293	714.641,4270	714.641,4270		714.641,2014	714.640,9717
N					7.092.445,0685	7.092.447,6836	7.092.448,2528	7.092.448,2528		7.092.448,5084	7.092.448,7686
Estaca: 0+050											
Dist. eixo (m)					-0,370	0,000	0,759	0,759		1,100	1,471
Cota (m)					4,133	4,104	4,089	5,509		5,504	5,875
E					714.634,6761	714.634,4315	714.633,9292	714.633,9292		714.633,7036	714.633,4580
N					7.092.440,7896	7.092.441,0667	7.092.441,6359	7.092.441,6359		7.092.441,8915	7.092.442,1697

PROJETO DE ENGENHARIA VIÁRIA
DUPLICAÇÃO DA AVENIDA SANTOS DUMONT
NOTA DE SERVIÇO - EIXO 08

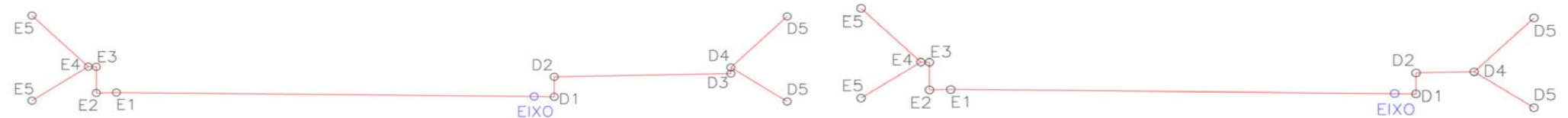
Local: Avenida Santos Dumont - Interseção com as ruas Dona Francisca, Dr. João Colin e Blumenau

Data: Junho/2024

Município: Joinville/SC

Arquivo: RCV-10651-01-02-NS-01-A

Desenho Esquemático:



PONTOS NOTÁVEIS	E5	E4	E3	E2	E1	EIXO	D1	D2	D3	D4	D5
Estaca: 0+055											
Dist. eixo (m)						0,000	0,759	0,759		1,100	1,477
Cota (m)						4,113	4,068	5,488		5,483	5,861
E						714.630,8544	714.630,3516	714.630,3516		714.630,1261	714.629,8764
N						7.092.437,9090	7.092.438,4787	7.092.438,4787		7.092.438,7343	7.092.439,0172
Estaca: 0+060											
Dist. eixo (m)					-0,394	0,000	0,759	0,759		1,100	1,473
Cota (m)					4,090	4,061	4,045	5,465		5,461	5,833
E					714.626,9042	714.626,6903	714.626,2783	714.626,2783		714.626,0933	714.625,8911
N					7.092.434,4239	7.092.434,7550	7.092.435,3926	7.092.435,3926		7.092.435,6789	7.092.435,9918
Estaca: 0+070											
Dist. eixo (m)					-3,604	0,000	0,759	0,759		1,100	1,226
Cota (m)					4,063	4,017	4,002	5,422		5,417	5,543
E					714.618,6584	714.617,6349	714.617,4193	714.617,4193		714.617,3225	714.617,2867
N					7.092.427,1378	7.092.430,5930	7.092.431,3209	7.092.431,3209		7.092.431,6477	7.092.431,7688
Estaca: 0+080											
Dist. eixo (m)	-9,132	-9,100	-8,969	-8,969	-8,000	0,000	0,999	0,999		1,100	1,280
Cota (m)	5,537	5,559	5,559	4,178	4,159	3,999	3,979	5,399		5,399	5,578
E	714.607,7942	714.607,7941	714.607,7938	714.607,7938	714.607,7917	714.607,7737	714.607,7714	714.607,7714		714.607,7712	714.607,7708
N	7.092.420,0198	7.092.420,0519	7.092.420,1832	7.092.420,1832	7.092.421,1519	7.092.429,1519	7.092.430,1514	7.092.430,1514		7.092.430,2519	7.092.430,4316
Estaca: 0+082											
Dist. eixo (m)	-9,278	-9,100	-8,969	-8,969	-8,000	0,000	0,999	0,999		1,100	1,274
Cota (m)	5,443	5,561	5,561	4,180	4,161	4,001	3,981	5,401		5,401	5,575
E	714.604,7981	714.604,8097	714.604,8183	714.604,8183	714.604,8817	714.605,4051	714.605,4705	714.605,4705		714.605,4770	714.605,4884
N	7.092.419,9686	7.092.420,1463	7.092.420,2773	7.092.420,2773	7.092.421,2440	7.092.429,2268	7.092.430,2242	7.092.430,2242		7.092.430,3245	7.092.430,4979

PROJETO DE ENGENHARIA VIÁRIA
DUPLICAÇÃO DA AVENIDA SANTOS DUMONT
NOTA DE SERVIÇO - EIXO 08

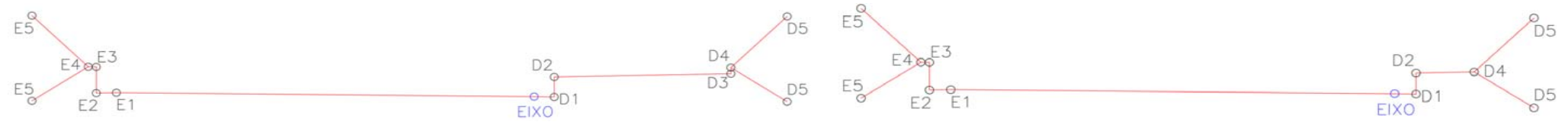
Local: Avenida Santos Dumont - Interseção com as ruas Dona Francisca, Dr. João Colin e Blumenau

Data: Junho/2024

Município: Joinville/SC

Arquivo: RCV-10651-01-02-NS-01-A

Desenho Esquemático:

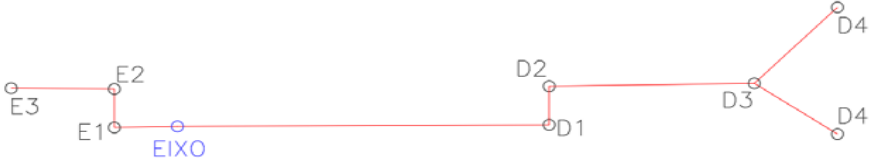


PONTOS NOTÁVEIS	E5	E4	E3	E2	E1	EIXO	D1	D2	D3	D4	D5
Estaca: 0+090											
Dist. eixo (m)	-9,393	-9,100	-8,969	-8,969	-8,000	0,000	0,999	0,999	3,600	3,600	3,648
Cota (m)	5,394	5,590	5,590	4,209	4,190	4,030	4,010	5,430	5,380	5,500	5,548
E	714.595,2788	714.595,3609	714.595,3976	714.595,3976	714.595,6685	714.597,9060	714.598,1855	714.598,1855	714.598,9128	714.598,9128	714.598,9261
N	7.092.421,5300	7.092.421,8118	7.092.421,9378	7.092.421,9378	7.092.422,8679	7.092.430,5486	7.092.431,5082	7.092.431,5082	7.092.434,0049	7.092.434,0049	7.092.434,0505
Estaca: 0+100											
Dist. eixo (m)	-9,401	-9,100	-8,969	-8,969	-8,000	0,000	0,999	0,999	3,600	3,600	3,759
Cota (m)	5,945	5,644	5,644	4,263	4,244	4,084	4,064	5,484	5,434	5,554	5,448
E	714.583,7656	714.583,9276	714.583,9984	714.583,9984	714.584,5205	714.588,8320	714.589,3706	714.589,3706	714.590,7722	714.590,7722	714.590,8579
N	7.092.426,7511	7.092.427,0044	7.092.427,1150	7.092.427,1150	7.092.427,9310	7.092.434,6698	7.092.435,5117	7.092.435,5117	7.092.437,7022	7.092.437,7022	7.092.437,8362
Estaca: 0+110											
Dist. eixo (m)					-4,688	0,000	0,357	0,357	3,600	3,600	3,797
Cota (m)					5,191	5,022	5,015	6,435	5,472	5,592	5,461
E					714.577,7735	714.581,3077	714.581,5770	714.581,5770	714.584,0218	714.584,0218	714.584,1705
N					7.092.438,0782	7.092.441,1580	7.092.441,3926	7.092.441,3926	7.092.443,5230	7.092.443,5230	7.092.443,6526
Estaca: 0+120											
Dist. eixo (m)					-3,467	0,000	0,357	0,357	3,600	3,600	3,712
Cota (m)					5,276	5,045	5,038	6,458	5,495	5,615	5,540
E					714.572,1040	714.574,7177	714.574,9869	714.574,9869	714.577,4318	714.577,4318	714.577,5162
N					7.092.446,4430	7.092.448,7205	7.092.448,9551	7.092.448,9551	7.092.451,0856	7.092.451,0856	7.092.451,1592
Estaca: 0+127											
Dist. eixo (m)					-3,424	0,000	0,357	0,357	3,600	3,600	3,718
Cota (m)					5,288	5,060	5,053	6,473	5,510	5,630	5,551
E					714.567,2936	714.569,8753	714.570,1445	714.570,1445	714.572,5894	714.572,5894	714.572,6782
N					7.092.452,0278	7.092.454,2775	7.092.454,5121	7.092.454,5121	7.092.456,6426	7.092.456,6426	7.092.456,7200

PROJETO DE ENGENHARIA VIÁRIA
DUPLICAÇÃO DA AVENIDA SANTOS DUMONT
NOTA DE SERVIÇO - EIXO 09

Local: Avenida Santos Dumont - Interseção com as ruas Dona Francisca, Dr. João Colin e Blumenau
Município: Joinville/SC
Data: Junho/2024
Arquivo: RCV-10651-01-02-NS-01-A

Desenho Esquemático:



PONTOS NOTÁVEIS	E3	E2	E1	EIXO	D1	D2	D3	D4
Estaca: 0+000								
Dist. eixo (m)				0,000	10,000	10,100	11,100	11,647
Cota (m)				4,931	5,131	5,631	5,651	5,286
E				714.610,0776	714.603,4607	714.603,3946	714.602,7329	714.602,3708
N				7.092.406,2370	7.092.413,7348	7.092.413,8098	7.092.414,5596	7.092.414,9698
Estaca: 0+010								
Dist. eixo (m)	-12,369	-0,357	-0,357	0,000	10,000	10,343	11,100	11,462
Cota (m)	5,360	5,301	4,913	4,920	5,120	5,127	5,640	6,002
E	714.610,7642	714.602,8163	714.602,8163	714.602,5798	714.595,9629	714.595,7359	714.595,2351	714.594,9954
N	7.092.390,3461	7.092.399,3522	7.092.399,3522	7.092.399,6201	7.092.407,1179	7.092.407,3752	7.092.407,9427	7.092.408,2142
Estaca: 0+020								
Dist. eixo (m)	-4,534	-0,357	-0,357	0,000	10,000	10,343	11,100	11,507
Cota (m)	5,311	5,243	4,855	4,859	5,059	5,066	5,579	5,986
E	714.598,0822	714.595,3185	714.595,3185	714.595,0820	714.588,4651	714.588,2381	714.587,7373	714.587,4680
N	7.092.389,6036	7.092.392,7353	7.092.392,7353	7.092.393,0033	7.092.400,5011	7.092.400,7583	7.092.401,3258	7.092.401,6310
Estaca: 0+027								
Dist. eixo (m)	-3,100	-0,357	-0,357	0,000	10,000	10,343	11,100	11,263
Cota (m)	5,238	5,183	4,795	4,798	4,998	5,005	5,518	5,409
E	714.591,7904	714.589,9756	714.589,9756	714.589,7391	714.583,1222	714.582,8952	714.582,3944	714.582,2867
N	7.092.385,9638	7.092.388,0202	7.092.388,0202	7.092.388,2881	7.092.395,7859	7.092.396,0432	7.092.396,6107	7.092.396,7327
Estaca: 0+030								
Dist. eixo (m)	-3,100	-0,357	-0,357	0,000	9,786			
Cota (m)	5,213	5,158	4,770	4,773	4,854			
E	714.590,1395	714.588,0209	714.588,0209	714.587,7449	714.580,1855			
N	7.092.384,2542	7.092.385,9959	7.092.385,9959	7.092.386,2228	7.092.392,4372			

PROJETO DE ENGENHARIA VIÁRIA
DUPLICAÇÃO DA AVENIDA SANTOS DUMONT
NOTA DE SERVIÇO - EIXO 09

Local: Avenida Santos Dumont - Interseção com as ruas Dona Francisca, Dr. João Colin e Blumenau
Município: Joinville/SC
Data: Junho/2024
Arquivo: RCV-10651-01-02-NS-01-A

Desenho Esquemático:



PONTOS NOTÁVEIS	E3	E2	E1	EIXO	D1	D2	D3	D4
Estaca: 0+035								
Dist. eixo (m)	-3,100	-0,357	-0,357	0,000	6,391			
Cota (m)	5,171	5,116	4,728	4,731	4,686			
E	714.588,0204	714.585,5116	714.585,5116	714.585,1848	714.579,3391			
N	7.092.380,8134	7.092.381,9218	7.092.381,9218	7.092.382,0662	7.092.384,6488			
Estaca: 0+040								
Dist. eixo (m)	-3,100	-0,357	-0,357	0,000	4,395			
Cota (m)	5,128	5,073	4,685	4,688	4,647			
E	714.586,8801	714.584,1615	714.584,1615	714.583,8073	714.579,4507			
N	7.092.376,7606	7.092.377,1230	7.092.377,1230	7.092.377,1702	7.092.377,7508			
Estaca: 0+043								
Dist. eixo (m)	-3,100	-0,357	-0,357	0,000	4,148			
Cota (m)	5,105	5,050	4,662	4,665	4,628			
E	714.586,7513	714.584,0090	714.584,0090	714.583,6517	714.579,5042			
N	7.092.374,5582	7.092.374,5151	7.092.374,5151	7.092.374,5095	7.092.374,4444			

PROJETO DE ENGENHARIA VIÁRIA
DUPLICAÇÃO DA AVENIDA SANTOS DUMONT
NOTA DE SERVIÇO - EIXO 10

Local: Avenida Santos Dumont - Interseção com as ruas Dona Francisca, Dr. João Colin e Blumenau

Data: Junho/2024

Município: Joinville/SC

Arquivo: RCV-10651-01-02-NS-01-A

Desenho Esquemático:



PONTOS NOTÁVEIS			E1	EIXO			
Estaca: 0+000							
Dist. eixo (m)			-5,170	0,000			
Cota (m)			5,288	4,933			
E			714.567,2780	714.563,3570			
N			7.092.452,0459	7.092.448,6768			
Estaca: 0+008							
Dist. eixo (m)			-5,180	0,000			
Cota (m)			5,273	4,952			
E			714.572,3654	714.568,4362			
N			7.092.446,1414	7.092.442,7654			
Estaca: 0+010							
Dist. eixo (m)			-5,357	0,000			
Cota (m)			5,253	4,957			
E			714.574,2135	714.569,7737			
N			7.092.444,0091	7.092.441,0124			
Estaca: 0+014							
Dist. eixo (m)			-5,901	0,000			
Cota (m)			5,203	4,960			
E			714.577,3230	714.571,8018			
N			7.092.439,1740	7.092.437,0907			
Estaca: 0+020							
Dist. eixo (m)			-6,583	0,000			
Cota (m)			5,130	4,927			
E			714.579,5504	714.572,9820			
N			7.092.432,1059	7.092.431,6626			
Estaca: 0+021							
Dist. eixo (m)			-6,792	0,000			
Cota (m)			5,116	4,916			
E			714.579,8155	714.573,0238			
N			7.092.430,6873	7.092.430,6072			
Estaca: 0+030							
Dist. eixo (m)			-7,000	0,000			
Cota (m)			5,057	4,817			
E			714.580,1288	714.573,1293			
N			7.092.421,7467	7.092.421,6642			

PROJETO DE ENGENHARIA VIÁRIA
DUPLICAÇÃO DA AVENIDA SANTOS DUMONT
NOTA DE SERVIÇO - EIXO 10

Local: Avenida Santos Dumont - Interseção com as ruas Dona Francisca, Dr. João Colin e Blumenau
Município: Joinville/SC
Data: Junho/2024
Arquivo: RCV-10651-01-02-NS-01-A



PONTOS NOTÁVEIS			E1	EIXO			
Estaca: 0+040							
Dist. eixo (m)			-7,000	0,000			
Cota (m)			4,998	4,708			
E			714.580,2468	714.573,2473			
N			7.092.411,7474	7.092.411,6649			
Estaca: 0+050							
Dist. eixo (m)			-7,000	0,000			
Cota (m)			4,938	4,664			
E			714.580,3647	714.573,3652			
N			7.092.401,7481	7.092.401,6656			
Estaca: 0+060							
Dist. eixo (m)			-6,606	0,000			
Cota (m)			4,837	4,650			
E			714.580,0888	714.573,4832			
N			7.092.391,7442	7.092.391,6663			
Estaca: 0+070							
Dist. eixo (m)			-5,785	0,000			
Cota (m)			4,670	4,636			
E			714.579,3862	714.573,6011			
N			7.092.381,7352	7.092.381,6670			
Estaca: 0+078							
Dist. eixo (m)			-5,821	0,000			
Cota (m)			4,624	4,624			
E			714.579,5165	714.573,6961			
N			7.092.373,6848	7.092.373,6161			

6.0 - RELATÓRIO DE VOLUMES

6.1 - Duplicação

PROJETO DE ENGENHARIA VIÁRIA
DUPLICAÇÃO DA AVENIDA SANTOS DUMONT
PLANILHA DE CÁLCULO DE VOLUMES

EIXO 01

Local: Avenida Santos Dumont - Trecho entre Rua Dom Bosco e Av. Rolf Wiest
Município: Joinville/SC

Data: Novembro/2024
Arquivo: RCV-10620-01-02-VL-01-B

Estaca	Distância (m)	Área de Corte (m²)	Área de Aterro (m²)	Volume de Corte (m³)	Volume de Aterro (m³)
0+000,000	0,000	7,622	3,155	0,00	0,00
0+003,637	3,637	6,674	4,138	26,00	13,26
0+010,000	6,363	6,451	4,674	41,76	28,04
0+017,193	7,193	10,608	1,280	61,35	21,41
0+020,000	2,807	12,546	0,569	32,50	2,59
0+030,000	10,000	11,518	0,378	120,32	4,73
0+030,749	0,749	11,433	0,382	8,60	0,28
0+040,000	9,251	11,117	0,443	104,31	3,81
0+050,000	10,000	8,646	1,840	98,81	11,41
0+060,000	10,000	6,631	2,935	76,38	23,87
0+070,000	10,000	1,138	0,582	38,85	17,58
0+080,000	10,000	4,082	0,398	26,10	4,90
0+090,000	10,000	10,166	0,289	71,24	3,44
0+100,000	10,000	6,765	0,784	84,65	5,36
0+110,000	10,000	7,109	2,373	69,37	15,78
0+120,000	10,000	11,015	2,114	90,62	22,43
0+130,000	10,000	11,299	1,872	111,57	19,93
0+140,000	10,000	12,827	1,201	120,63	15,37
0+150,000	10,000	14,348	0,815	135,88	10,08
0+151,378	1,378	14,445	0,700	19,84	1,04
0+156,021	4,643	14,920	0,381	68,17	2,51
0+160,000	3,979	15,890	0,063	61,30	0,88
0+160,664	0,664	16,555	0,057	10,77	0,04
0+170,000	9,336	18,037	0,065	161,47	0,57
0+180,000	10,000	16,242	0,095	171,39	0,80
0+190,000	10,000	15,033	0,143	156,37	1,19
0+200,000	10,000	14,260	0,038	146,47	0,90
0+210,000	10,000	13,181	0,193	137,20	1,15
0+220,000	10,000	12,487	0,404	128,34	2,99
0+230,000	10,000	13,348	0,124	129,17	2,64
0+240,000	10,000	11,415	1,007	123,82	5,65
0+250,000	10,000	11,199	1,146	113,07	10,77
0+260,000	10,000	12,981	0,244	120,90	6,95
0+269,459	9,459	16,130	0,024	137,68	1,27
0+270,000	0,541	16,327	0,021	8,78	0,01
0+273,759	3,759	17,394	0,055	63,38	0,14
0+278,058	4,299	16,597	0,032	73,06	0,19
0+280,000	1,942	13,655	0,166	29,38	0,19
0+290,000	10,000	13,014	2,402	133,35	12,84
0+300,000	10,000	13,056	2,591	130,35	24,96
0+310,000	10,000	13,453	2,537	132,55	25,64
0+320,000	10,000	14,364	2,134	139,09	23,35
0+330,000	10,000	16,139	1,561	152,52	18,48
0+340,000	10,000	17,315	0,736	167,27	11,49
0+350,000	10,000	15,968	0,181	166,41	4,59
0+360,000	10,000	17,464	0,301	167,16	2,41
0+370,000	10,000	22,307	0,090	198,85	1,96
0+380,000	10,000	19,829	0,944	210,68	5,17
0+390,000	10,000	17,498	3,540	186,64	22,42
0+400,000	10,000	13,633	2,921	155,66	32,31
0+410,000	10,000	6,555	9,073	100,94	59,97
0+420,000	10,000	8,327	20,400	74,41	147,37
0+430,000	10,000	13,362	0,186	108,45	102,93
0+440,000	10,000	14,019	0,078	136,91	1,32
0+450,000	10,000	14,661	0,082	143,40	0,80
0+460,000	10,000	14,599	0,122	146,30	1,02
0+470,000	10,000	14,244	0,130	144,22	1,26
0+480,000	10,000	14,006	0,162	141,25	1,46
0+490,000	10,000	13,224	0,226	136,15	1,94
0+494,132	4,132	12,947	0,236	54,07	0,95
0+500,000	5,868	12,848	0,286	75,68	1,53
0+507,563	7,563	12,837	0,424	97,13	2,68
0+510,000	2,437	12,804	0,493	31,24	1,12
0+520,000	10,000	11,609	1,582	122,06	10,38
0+520,994	0,994	11,534	1,657	11,50	1,61
0+530,000	9,006	11,929	1,552	105,65	14,45
0+533,197	3,197	11,575	1,661	37,57	5,13
0+540,000	6,803	11,424	0,993	78,23	9,03
0+540,428	0,428	11,450	0,968	4,90	0,42
0+547,660	7,232	13,844	0,000	91,46	3,50
0+550,000	2,340	16,439	0,000	35,43	0,00

PROJETO DE ENGENHARIA VIÁRIA
DUPLICAÇÃO DA AVENIDA SANTOS DUMONT
PLANILHA DE CÁLCULO DE VOLUMES
EIXO 01

Local: Avenida Santos Dumont - Trecho entre Rua Dom Bosco e Av. Rolf Wiest
Município: Joinville/SC

Data: Novembro/2024
Arquivo: RCV-10620-01-02-VL-01-B

Estaca	Distância (m)	Área de Corte (m²)	Área de Aterro (m²)	Volume de Corte (m³)	Volume de Aterro (m³)
0+550,426	0,426	16,612	0,000	7,04	0,00
0+557,660	7,234	18,471	0,000	126,89	0,00
0+560,000	2,340	17,606	0,000	42,21	0,00
0+564,893	4,893	18,829	0,000	89,14	0,00
0+570,000	5,107	20,635	0,000	100,77	0,00
0+580,000	10,000	19,586	0,118	201,10	0,59
0+584,047	4,047	19,027	0,103	78,13	0,45
0+590,000	5,953	13,377	0,008	96,45	0,33
0+590,579	0,579	13,509	0,008	7,78	0,00
0+597,111	6,532	14,300	0,000	90,82	0,03
0+600,000	2,889	13,499	0,025	40,16	0,04
0+610,000	10,000	13,425	0,211	134,62	1,18
0+614,849	4,849	16,511	0,143	72,58	0,86
0+619,611	4,762	17,629	0,029	81,29	0,41
0+620,000	0,389	17,745	0,042	6,88	0,01
0+624,372	4,372	19,459	0,053	81,33	0,21
0+630,000	5,628	22,213	0,020	117,27	0,20
0+640,000	10,000	26,687	0,075	244,50	0,47
0+650,000	10,000	49,292	0,029	379,90	0,52
0+659,560	9,560	60,866	0,033	526,56	0,29
0+660,000	0,440	60,880	0,033	26,78	0,01
0+664,839	4,839	60,686	0,033	294,13	0,16
0+670,000	5,161	58,642	0,040	307,93	0,19
0+670,117	0,117	58,560	0,041	6,86	0,00
0+671,351	1,234	57,700	0,046	71,73	0,05
0+679,667	8,316	52,963	0,000	460,14	0,19
0+680,000	0,333	52,300	0,000	17,53	0,00
0+687,982	7,982	24,381	1,036	306,03	4,14
0+690,000	2,018	21,970	1,664	46,77	2,72
0+700,000	10,000	10,312	0,051	161,41	8,57
0+700,796	0,796	9,423	0,089	7,85	0,06
0+708,333	7,537	4,664	2,123	53,09	8,33
0+710,000	1,667	4,303	2,600	7,47	3,94
0+715,871	5,871	3,146	3,876	21,87	19,01
0+720,000	4,129	5,022	4,370	16,86	17,02
0+730,000	10,000	8,607	4,461	68,15	44,15
0+740,000	10,000	2,536	7,100	55,71	57,81
0+750,000	10,000	1,033	7,742	17,84	74,21
0+760,000	10,000	2,947	8,345	19,90	80,43
0+770,000	10,000	3,943	8,324	34,45	83,34
0+780,000	10,000	0,097	5,950	20,20	71,37
0+790,000	10,000	0,986	5,725	5,42	58,37
0+800,000	10,000	1,430	3,092	12,08	44,08
0+810,000	10,000	3,764	0,816	25,97	19,54
0+820,000	10,000	8,898	0,043	63,31	4,29
0+830,000	10,000	10,929	0,016	99,13	0,29
0+840,000	10,000	8,841	0,499	98,85	2,57
0+850,000	10,000	10,009	0,075	94,25	2,87
0+860,000	10,000	11,081	0,340	105,45	2,07
0+870,000	10,000	15,126	0,222	131,03	2,81
0+880,000	10,000	18,239	0,160	166,83	1,91
0+890,000	10,000	14,581	0,159	164,10	1,60
0+900,000	10,000	12,943	0,315	137,62	2,37
0+910,000	10,000	14,036	0,175	134,89	2,45
0+913,154	3,154	13,901	0,154	44,06	0,52
0+920,000	6,846	12,325	0,275	89,77	1,47
0+930,000	10,000	12,016	0,367	121,70	3,21
0+932,148	2,148	11,982	0,523	25,77	0,96
0+940,000	7,852	11,716	0,703	93,04	4,81
0+950,000	10,000	11,651	0,829	116,83	7,66
0+951,143	1,143	11,489	0,857	13,22	0,96
0+960,000	8,857	7,144	2,543	82,52	15,06
0+970,000	10,000	3,514	8,160	53,29	53,52
0+980,000	10,000	6,818	0,390	51,66	42,75
0+990,000	10,000	11,752	0,356	92,85	3,73
1+000,000	10,000	12,219	0,325	119,86	3,40
1+010,000	10,000	9,947	0,535	110,83	4,30
1+020,000	10,000	10,280	0,611	101,13	5,73
1+030,000	10,000	11,478	0,285	108,79	4,48
1+039,485	9,485	14,817	0,235	124,71	2,47
1+040,000	0,515	15,025	0,235	7,68	0,12

PROJETO DE ENGENHARIA VIÁRIA
DUPLICAÇÃO DA AVENIDA SANTOS DUMONT
PLANILHA DE CÁLCULO DE VOLUMES
EIXO 01

Local: Avenida Santos Dumont - Trecho entre Rua Dom Bosco e Av. Rolf Wiest
Município: Joinville/SC

Data: Novembro/2024
Arquivo: RCV-10620-01-02-VL-01-B

Estaca	Distância (m)	Área de Corte (m²)	Área de Aterro (m²)	Volume de Corte (m³)	Volume de Aterro (m³)
1+048,307	8,307	10,492	0,613	105,99	3,52
1+050,000	1,693	10,732	0,567	17,97	1,00
1+057,129	7,129	11,818	0,244	80,38	2,89
1+060,000	2,871	11,637	0,320	33,67	0,81
1+070,000	10,000	12,178	0,277	119,07	2,98
1+080,000	10,000	14,605	0,181	133,91	2,29
1+090,000	10,000	16,423	0,197	155,14	1,89
1+100,000	10,000	15,292	0,211	158,57	2,04
1+110,000	10,000	14,964	0,210	151,28	2,11
1+120,000	10,000	14,948	0,246	149,56	2,28
1+124,425	4,425	15,247	0,219	66,81	1,03
1+130,000	5,575	15,322	0,218	85,21	1,22
1+140,000	10,000	14,760	0,203	150,41	2,11
1+140,492	0,492	14,893	0,203	7,29	0,10
1+150,000	9,508	15,231	0,171	143,21	1,77
1+156,559	6,559	14,884	0,170	98,76	1,12
1+160,000	3,441	14,683	0,166	50,87	0,58
1+170,000	10,000	14,198	0,235	144,41	2,00
1+177,064	7,064	14,366	0,228	100,89	1,63
1+180,000	2,936	14,450	0,242	42,30	0,69
1+190,000	10,000	14,628	0,269	145,39	2,55
1+198,059	8,059	14,828	0,120	118,69	1,56
1+200,000	1,941	14,907	0,094	28,86	0,21
1+210,000	10,000	15,430	0,030	151,68	0,62
1+219,053	9,053	16,056	0,000	142,52	0,14
1+220,000	0,947	16,097	0,003	15,22	0,00
1+230,000	10,000	16,039	0,010	160,68	0,06
1+240,000	10,000	15,859	0,033	159,49	0,21
1+243,099	3,099	15,811	0,038	49,07	0,11
1+250,000	6,901	15,687	0,033	108,68	0,25
1+254,858	4,858	15,544	0,041	75,86	0,18
1+260,000	5,142	14,897	0,051	78,26	0,24
1+266,616	6,616	14,704	0,056	97,92	0,35
1+270,000	3,384	14,811	0,049	49,94	0,18
1+280,000	10,000	14,034	0,000	144,23	0,25
VOLUMES TOTAIS DO EIXO 01				17.663,93	1.641,27

PROJETO DE ENGENHARIA VIÁRIA
DUPLICAÇÃO DA AVENIDA SANTOS DUMONT
PLANILHA DE CÁLCULO DE VOLUMES

EIXO 02

Local: Avenida Santos Dumont - Trecho entre Rua Dom Bosco e Av. Rolf Wiest
Município: Joinville/SC

Data: Novembro/2024
Arquivo: RCV-10620-01-02-VL-01-B

Estaca	Distância (m)	Área de Corte (m²)	Área de Aterro (m²)	Volume de Corte (m³)	Volume de Aterro (m³)
0+000,000	0,000	1,072	0,000	0,00	0,00
0+007,105	7,105	1,661	0,000	9,71	0,00
0+010,000	2,895	2,250	0,000	5,66	0,00
0+014,210	4,210	3,285	0,000	11,65	0,00
0+015,560	1,350	3,627	0,000	4,67	0,00
0+020,000	4,440	4,753	0,000	18,60	0,00
0+022,449	2,449	5,221	0,000	12,21	0,00
0+029,338	6,889	5,964	0,000	38,53	0,00
0+030,000	0,662	5,973	0,000	3,95	0,00
0+040,000	10,000	6,218	0,000	60,96	0,00
0+047,417	7,417	6,234	0,000	46,18	0,00
0+050,000	2,583	11,136	0,000	22,43	0,00
0+052,130	2,130	9,841	0,000	22,34	0,00
0+056,842	4,712	1,106	0,000	25,79	0,00
VOLUMES TOTAIS DO EIXO 02				282,68	0,00

PROJETO DE ENGENHARIA VIÁRIA
DUPLICAÇÃO DA AVENIDA SANTOS DUMONT
PLANILHA DE CÁLCULO DE VOLUMES

EIXO 03

Local: Avenida Santos Dumont - Trecho entre Rua Dom Bosco e Av. Rolf Wiest
Município: Joinville/SC

Data: Novembro/2024
Arquivo: RCV-10620-01-02-VL-01-B

Estaca	Distância (m)	Área de Corte (m²)	Área de Aterro (m²)	Volume de Corte (m³)	Volume de Aterro (m³)
0+000,000	0,000	0,961	0,012	0,00	0,00
0+006,168	6,168	1,554	0,000	7,76	0,04
0+010,000	3,832	2,030	0,000	6,87	0,00
0+012,335	2,335	2,395	0,000	5,17	0,00
0+020,000	7,665	4,196	0,000	25,26	0,00
0+023,525	3,525	4,687	0,000	15,66	0,00
0+030,000	6,475	11,226	0,000	51,52	0,00
0+037,434	7,434	13,816	0,000	93,08	0,00
0+040,000	2,566	13,074	0,000	34,50	0,00
0+050,000	10,000	18,343	0,000	157,09	0,00
0+051,344	1,344	16,400	0,000	23,35	0,00
0+060,000	8,656	10,145	0,000	114,89	0,00
0+062,005	2,005	9,038	0,000	19,23	0,00
0+070,000	7,995	6,643	0,000	62,68	0,00
0+072,666	2,666	6,463	0,000	17,47	0,00
0+080,000	7,334	6,366	0,000	47,04	0,00
0+090,000	10,000	6,133	0,000	62,49	0,00
0+099,194	9,194	5,407	0,000	53,05	0,00
0+100,000	0,806	5,372	0,000	4,34	0,00
0+106,012	6,012	5,299	0,009	32,08	0,03
0+110,000	3,988	5,384	0,008	21,30	0,03
0+112,829	2,829	5,498	0,005	15,39	0,02
0+120,000	7,171	5,556	0,012	39,64	0,06
0+130,000	10,000	5,622	0,000	55,89	0,06
0+140,000	10,000	5,981	0,000	58,01	0,00
0+150,000	10,000	6,115	0,000	60,48	0,00
0+160,000	10,000	6,151	0,000	61,33	0,00
0+170,000	10,000	5,942	0,047	60,47	0,24
0+180,000	10,000	5,266	0,058	56,04	0,53
0+183,427	3,427	5,173	0,061	17,89	0,20
VOLUMES TOTAIS DO EIXO 03				1.279,97	1,21

PROJETO DE ENGENHARIA VIÁRIA
DUPLICAÇÃO DA AVENIDA SANTOS DUMONT
PLANILHA DE CÁLCULO DE VOLUMES
OTTO BENACK

Local: Avenida Santos Dumont - Trecho entre Rua Dom Bosco e Av. Rolf Wiest
Município: Joinville/SC

Data: Novembro/2024
Arquivo: RCV-10620-01-02-VL-01-B

Estaca	Distância (m)	Área de Corte (m²)	Área de Aterro (m²)	Volume de Corte (m³)	Volume de Aterro (m³)
0+000,000	0,000	1,461	0,029	0,00	0,00
0+006,637	6,637	0,000	3,554	4,85	11,89
0+010,000	3,363	1,254	5,658	2,11	15,49
0+013,273	3,273	3,695	3,048	8,10	14,25
0+020,000	6,727	7,665	0,802	38,21	12,95
0+022,918	2,918	11,691	0,022	28,24	1,20
VOLUMES TOTAIS DO OTTO BENACK				81,51	55,78

6.2 - Interseção

PROJETO DE ENGENHARIA VIÁRIA
DUPLICAÇÃO DA AVENIDA SANTOS DUMONT
PLANILHA DE CÁLCULO DE VOLUMES

EIXO 04

Local: Avenida Santos Dumont - Interseção com as ruas Dona Francisca, Dr. João Colin e Blumenau

Data: Junho/2024

Município: Joinville/SC

Arquivo: RCV-10620-01-03-VL-01-A

Estaca	Distância (m)	Área de Corte (m²)	Área de Aterro (m²)	Volume de Corte (m³)	Volume de Aterro (m³)
0+000,000	0,000	0,000	0,000	0,00	0,00
0+010,000	10,000	2,466	0,982	12,33	4,91
0+016,600	6,600	2,776	1,245	17,30	7,35
0+020,000	3,400	2,784	1,490	9,45	4,65
0+030,000	10,000	4,254	3,451	35,19	24,71
0+040,000	10,000	3,205	0,046	37,29	17,49
0+046,385	6,385	11,591	0,009	47,23	0,18
0+050,000	3,615	12,467	0,000	43,48	0,02
0+060,000	10,000	15,370	0,000	139,18	0,00
0+070,000	10,000	10,839	2,316	131,04	11,58
0+076,170	6,170	11,737	2,071	69,65	13,53
0+080,000	3,830	12,307	1,776	46,04	7,37
0+090,000	10,000	14,159	0,549	132,33	11,63
0+100,000	10,000	15,073	0,300	146,16	4,25
0+110,000	10,000	15,142	0,005	151,07	1,52
0+110,930	0,930	15,266	0,003	14,14	0,00
0+120,000	9,070	16,275	0,003	143,04	0,03
0+130,000	10,000	3,406	0,270	98,41	1,36
0+134,242	4,242	3,436	0,268	14,51	1,14
0+140,000	5,758	15,089	0,056	53,33	0,93
0+150,000	10,000	17,663	0,008	163,76	0,32
0+157,553	7,553	17,197	0,014	131,65	0,08
0+160,000	2,447	16,711	0,020	41,49	0,04
0+170,000	10,000	16,208	0,016	164,60	0,18
0+173,263	3,263	16,001	0,038	52,55	0,09
0+180,000	6,737	15,124	0,000	104,84	0,13
0+187,307	7,307	2,959	0,160	66,07	0,59
0+190,000	2,693	2,546	0,118	7,41	0,37
0+200,000	10,000	2,544	1,133	25,45	6,25
0+201,351	1,351	2,837	1,014	3,64	1,45
0+210,000	8,649	3,108	1,223	25,71	9,67
0+222,740	12,740	0,000	0,000	19,80	7,79
VOLUMES TOTAIS DO EIXO 04				2.148,14	139,61

PROJETO DE ENGENHARIA VIÁRIA
DUPLICAÇÃO DA AVENIDA SANTOS DUMONT
PLANILHA DE CÁLCULO DE VOLUMES

EIXO 05

Local: Avenida Santos Dumont - Interseção com as ruas Dona Francisca, Dr. João Colin e Blumenau

Data: Junho/2024

Município: Joinville/SC

Arquivo: RCV-10620-01-03-VL-01-A

Estaca	Distância (m)	Área de Corte (m²)	Área de Aterro (m²)	Volume de Corte (m³)	Volume de Aterro (m³)
0+000,000	0,000	2,128	0,532	0,00	0,00
0+010,000	10,000	2,549	0,892	23,38	7,12
0+010,453	0,453	2,534	0,906	1,15	0,41
0+020,000	9,547	3,854	0,022	30,49	4,43
0+022,789	2,789	3,577	0,019	10,36	0,06
0+030,000	7,211	0,376	0,173	14,25	0,69
0+035,125	5,125	0,086	0,258	1,18	1,11
0+035,222	0,097	0,088	0,253	0,01	0,02
VOLUMES TOTAIS DO EIXO 05				80,82	13,84

PROJETO DE ENGENHARIA VIÁRIA
DUPLICAÇÃO DA AVENIDA SANTOS DUMONT
PLANILHA DE CÁLCULO DE VOLUMES

EIXO 06

Local: Avenida Santos Dumont - Interseção com as ruas Dona Francisca, Dr. João Colin e Blumenau

Data: Junho/2024

Município: Joinville/SC

Arquivo: RCV-10620-01-03-VL-01-A

Estaca	Distância (m)	Área de Corte (m²)	Área de Aterro (m²)	Volume de Corte (m³)	Volume de Aterro (m³)
0+000,000	0,000	1,793	0,000	0,00	0,00
0+000,123	0,123	1,796	0,000	0,22	0,00
0+007,189	7,066	1,774	0,000	12,61	0,00
0+010,000	2,811	1,790	0,000	5,01	0,00
0+014,255	4,255	1,740	0,000	7,51	0,00
0+020,000	5,745	1,782	0,000	10,12	0,00
0+030,000	10,000	1,657	0,000	17,19	0,00
0+036,316	6,316	1,501	0,000	9,97	0,00
VOLUMES TOTAIS DO EIXO 06				62,63	0,00

PROJETO DE ENGENHARIA VIÁRIA
DUPLICAÇÃO DA AVENIDA SANTOS DUMONT
PLANILHA DE CÁLCULO DE VOLUMES
EIXO 07

Local: Avenida Santos Dumont - Interseção com as ruas Dona Francisca, Dr. João Colin e Blumenau

Data: Junho/2024

Município: Joinville/SC

Arquivo: RCV-10620-01-03-VL-01-A

Estaca	Distância (m)	Área de Corte (m²)	Área de Aterro (m²)	Volume de Corte (m³)	Volume de Aterro (m³)
0+000,000	0,000	2,771	1,007	0,00	0,00
0+010,000	10,000	2,198	0,449	24,85	7,28
0+011,303	1,303	2,397	0,431	2,99	0,57
0+020,000	8,697	4,848	0,004	31,50	1,89
0+025,621	5,621	4,115	0,000	25,19	0,01
0+030,000	4,379	1,720	0,000	12,77	0,00
0+039,940	9,940	12,374	0,021	70,04	0,10
0+040,000	0,060	12,390	0,021	0,74	0,00
0+050,000	10,000	13,327	0,003	128,58	0,12
0+050,035	0,035	13,332	0,003	0,47	0,00
0+056,215	6,180	11,021	0,000	75,25	0,01
0+060,000	3,785	6,076	0,001	32,36	0,00
0+062,394	2,394	4,105	0,303	12,19	0,36
0+062,494	0,100	4,020	0,343	0,41	0,03
VOLUMES TOTAIS DO EIXO 07				417,34	10,37

PROJETO DE ENGENHARIA VIÁRIA
DUPLICAÇÃO DA AVENIDA SANTOS DUMONT
PLANILHA DE CÁLCULO DE VOLUMES

EIXO 08

Local: Avenida Santos Dumont - Interseção com as ruas Dona Francisca, Dr. João Colin e Blumenau

Data: Junho/2024

Município: Joinville/SC

Arquivo: RCV-10620-01-03-VL-01-A

Estaca	Distância (m)	Área de Corte (m²)	Área de Aterro (m²)	Volume de Corte (m³)	Volume de Aterro (m³)
0+000,000	0,000	3,876	0,001	0,00	0,00
0+004,433	4,433	4,112	0,043	17,70	0,10
0+008,914	4,481	4,151	0,112	18,51	0,35
0+010,000	1,086	4,179	0,135	4,52	0,13
0+020,000	10,000	5,002	0,209	45,90	1,72
0+022,683	2,683	16,930	0,093	29,42	0,41
0+030,000	7,317	18,540	0,089	129,77	0,66
0+036,451	6,451	10,540	0,000	93,79	0,29
0+040,000	3,549	7,388	0,000	31,81	0,00
0+050,000	10,000	2,195	0,000	47,92	0,00
0+054,771	4,771	1,534	0,000	8,90	0,00
0+060,000	5,229	2,213	0,000	9,80	0,00
0+070,000	10,000	7,153	0,000	46,83	0,00
0+080,000	10,000	15,676	0,003	114,14	0,01
0+082,370	2,370	14,866	0,026	36,19	0,03
0+090,000	7,630	12,609	0,055	104,82	0,31
0+100,000	10,000	14,238	0,009	134,23	0,32
0+109,969	9,969	1,979	0,265	80,83	1,36
0+110,000	0,031	1,973	0,265	0,06	0,01
0+120,000	10,000	1,397	0,261	16,85	2,63
0+127,371	7,371	1,350	0,293	10,12	2,04
VOLUMES TOTAIS DO EIXO 08				982,11	10,37

PROJETO DE ENGENHARIA VIÁRIA
DUPLICAÇÃO DA AVENIDA SANTOS DUMONT
PLANILHA DE CÁLCULO DE VOLUMES

EIXO 09

Local: Avenida Santos Dumont - Interseção com as ruas Dona Francisca, Dr. João Colin e Blumenau

Data: Junho/2024

Município: Joinville/SC

Arquivo: RCV-10620-01-03-VL-01-A

Estaca	Distância (m)	Área de Corte (m²)	Área de Aterro (m²)	Volume de Corte (m³)	Volume de Aterro (m³)
0+000,000	0,000	3,161	0,461	0,00	0,00
0+010,000	10,000	5,523	1,380	43,42	9,21
0+020,000	10,000	4,004	0,211	47,63	7,96
0+027,126	7,126	3,194	0,266	25,65	1,70
0+030,000	2,874	2,835	0,098	8,66	0,52
0+034,897	4,897	2,265	0,037	12,49	0,33
0+040,000	5,103	1,896	0,000	10,62	0,09
0+042,668	2,668	1,842	0,000	4,99	0,00
0+043,450	0,782	1,848	0,000	1,44	0,00
VOLUMES TOTAIS DO EIXO 09				154,90	19,81

PROJETO DE ENGENHARIA VIÁRIA
DUPLICAÇÃO DA AVENIDA SANTOS DUMONT
PLANILHA DE CÁLCULO DE VOLUMES

EIXO 10

Local: Avenida Santos Dumont - Interseção com as ruas Dona Francisca, Dr. João Colin e Blumenau

Data: Junho/2024

Município: Joinville/SC

Arquivo: RCV-10620-01-03-VL-01-A

Estaca	Distância (m)	Área de Corte (m²)	Área de Aterro (m²)	Volume de Corte (m³)	Volume de Aterro (m³)
0+000,000	0,000	1,804	0,000	0,00	0,00
0+007,794	7,794	1,839	0,000	14,20	0,00
0+010,000	2,206	1,919	0,000	4,15	0,00
0+014,425	4,425	2,050	0,000	8,78	0,00
0+020,000	5,575	2,497	0,000	12,68	0,00
0+021,056	1,056	2,651	0,000	2,72	0,00
0+030,000	8,944	2,749	0,000	24,15	0,00
0+040,000	10,000	3,568	0,000	31,59	0,00
0+050,000	10,000	3,668	0,000	36,18	0,00
0+060,000	10,000	2,324	0,000	29,96	0,00
0+070,000	10,000	1,987	0,000	21,55	0,00
0+078,051	8,051	1,936	0,000	15,79	0,00
VOLUMES TOTAIS DO EIXO 10				201,75	0,00

7.0 - TERMO DE ENCERRAMENTO

O presente relatório volume 03 pertencente ao projeto de infraestrutura viária para a duplicação da Avenida Santos Dumont, contém um total de 86 páginas, numeradas em ordem crescente.

AZIMUTE Engenharia

Novembro de 2024