USLIMITS2 Speed Zoning Report

Project Overview

Project Name: Tech Ridge Blvd. Speed Study

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Basic Project Information

Project Number: 44

Route Name: Tech Ridge Boulevard From: IH 35 Northbound Frontage Road

To: E. Parmer Lane

State: Texas

County: Travis County City: Austin city

Route Type: Road Section in Developed Area

Route Status: Existing

Roadway Information

Section Length: 1.0 mile(s) Statutory Speed Limit: 60 mph Existing Speed Limit: 45 mph Adverse Alignment: No One-Way Street: No Divided/Undivided: Divided

Number of Through Lanes: 6 Area Type: Commercial Number of Driveways: 16 Number of Signals: 1

Date: 2021-11-30

Crash Data Information

Crash Data Years: 3.00 Crash AADT: 19829 veh/day Total Number of Crashes: 3

Total Number of Injury Crashes: 0 Section Crash Rate: 14 per 100 MVM Section Injury Crash Rate: 0 per 100 MVM Crash Rate Average for Similar Roads: 200 Injury Rate Average for Similar Roads: 63

Traffic Information

85th Percentile Speed: 49 mph 50th Percentile Speed: 43 mph

AADT: 19829 veh/day

On Street Parking and Usage: Not High Pedestrian / Bicyclist Activity: Not High

Recommended Speed Limit:



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Equations Used in the Crash Data Calculations

Exposure (M)

M = (Section AADT * 365 * Section Length * Duration of Crash Data) / (100000000) M = (19829 * 365 * 1.0 * 3.00) / (100000000)

M = 0.2171

Crash Rate (Rc)

Rc = (Section Crash Average * 100000000) / (Section AADT * 365 * Section Length) Rc = (1.00 * 100000000) / (19829 * 365 * 1.0) Rc = 13.82 crashes per 100 MVM

Injury Rate (Ri)

Ri = (Section Injury Crash Average * 100000000) / (Section AADT * 365 * Section Length) Ri = (0.00 * 100000000) / (19829 * 365 * 1.0) Ri = 0.00 injuries per 100 MVM

Critical Crash Rate (Cc) $Cc = Crash Average of Similar Sections + 1.645 * (Crash Average of Similar Sections / Exposure) ^ (1/2) + ($

(2 * Exposure)) Cc = 199.97 + 1.645 * (199.97 / 0.2171) ^ (1/2) + (1 / (2 * 0.2171)) Cc = 252.20 crashes per 100 MVM

Critical Injury Rate (Ic)

Ic = Injury Crash Average of Similar Sections + 1.645 * (Injury Crash Average of Similar Sections / Exposure) ^ (1/2) + (1/(2 * Exposure)) Ic = 63.18 + 1.645 * (63.18 / 0.2171) ^ (1/2) + (1/(2 * 0.2171)) Ic = 93.55 injuries per 100 MVM