

Traffic Speed Analysis Report

Mission Police Department

Traffic Bureau

1. Project Overview

Field

Information

Project Name:

E. 21st Street

Location / Corridor:

1600 block to 1800 block

Study Limits: (From – To):

7am to 8am

4pm to 5pm

Case / Reference Number:

Prepared By:

Traffic Det. A. Sanchez #648

Analysis Period:

3 days (COMBINED)

Data Source:

On site by Officer

Date Prepared:

06/30/2026

Notes:

2. Study Objectives

The purpose of this traffic speed analysis is to evaluate vehicular speed characteristics within the study area to support traffic enforcement, safety assessments, and operational decision-making.

Objectives (check all that apply):

- ☐ Identify speeding trends
- ☐ Evaluate compliance with posted speed limits
- ☐ Identify congestion or bottleneck locations
- ☐ Support enforcement deployment
- ☐ Support safety or traffic calming initiatives

Key Questions / Focus Areas:

- Speeding

3. Study Area Description

Segment ID	Road Name:	From	To	Road Classification:	Number of Lanes:	Posted Speed (mph):	Notes
	E. 21st Street	1600 block	1800 block	Residential	Two lanes	30mph	

4. Data Collection & Sources

Item	Description
Speed Data Collection Method:	Handheld Lidar Gun
Equipment / Technology Used	
Data Source (Radar, GPS, Sensors, etc.):	Stalker LIDAR LR
Sample Size	
Data Resolution (e.g., 5-min, 15-min):	1 hr. morning / 1 hr. afternoon

<u>Item</u>	<u>Description</u>
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Assumptions

Limitations

5. Analysis Periods

Period Name	Day Type	Start Time	End Time
AM Peak	Weekday	7am	8am
Midday	Weekday		
PM Peak	Weekday	4pm	5pm
Off-Peak	Weekday		
Weekend	Weekend		

6. Speed Metrics Analyzed

The following speed metrics were analyzed and reported in miles per hour (mph):

- Average Speed (mph)
- Median Speed (mph)
- 85th Percentile Speed (mph)
- Minimum Speed (mph)
- Maximum Speed (mph)
- Travel Time (if applicable)
- Sample Size (vehicle count)

7. Speed Analysis Results

7.1 Summary Speed Statistics

Segment ID	Period	Avg Speed (mph)	Median Speed (mph)	85th % Speed (mph)	Min Speed (mph)	Max Speed (mph)	Sample Size
		21			12	32	73

7.2 Speed Compliance Evaluation

Segment ID	Period	Posted Speed (mph)	Avg Speed (mph)	% Below Posted	% Above Posted	Compliance Notes
	3 day (combined)	30	21	99%	1%	

7.3 Temporal Speed Analysis

Describe speed variations by time of day, peak vs. off-peak conditions, and day-of-week trends.

- There was only one vehicle seen speeding in the 3-day span of the survey. The above data collected was done during the mornings (morning commute) and afternoon (afternoon commute).

7.4 Spatial Speed Analysis

Identify roadway segments with consistently low speeds, high speeds, or recurring bottlenecks.

- The consistency of the road segment was the same for both eastbound and westbound traffic. Majority of traffic moves westbound in the morning and eastbound in the evening.

8. Performance Assessment

Performance Measure

Assessment

Speed Limit Compliance

-72 vehicles complied with speed limit.

Presence of Speeding Issues

-1 vehicle was over the posted speed limit.

Congestion Indicators

-No congestion was seen during study.

Safety Concerns

-Citizens concerned of vehicles speeding

Enforcement Considerations

9. Key Findings

Finding ID	Category (Speeding / Congestion / Safety)	Description	Severity (Low / Medium / High)
	Speeding		Low

10. Conclusions

Summarize overall findings related to traffic speed behavior, enforcement relevance, and roadway performance.

The speed analysis shows that only one vehicle was seen speeding over the limit in the 3 days (combined) the survey was conducted. The vehicle seen speeding was observed to be traveling 32 mph.

11. Recommendations

Recommendation ID	Segment ID	Issue Identified	Recommended Action	Priority Notes
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Speed Survey Log

Date: 6/16/2026				
PM				
SV= STOP SIGN VIOLATION (use "y")				
Veh #	Time	Speed	Direction	SV
1	16:12	19	E	
2	16:13	18	E	
3	16:19	22	E	
4	16:27	22	W	
5	16:29	20	W	
6	16:31	21	E	
7	16:33	22	E	
8	16:35	18	E	
9	16:35	20	W	
10	16:53	18	W	
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Location:1700 E 21st St				
A Garcia 562				
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Speed Survey Log

Date: 6/17/2026				
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SV= STOP SIGN VIOLATION (use "y")				
Veh #	Time	Speed	Direction	SV
1	7:08	23	E	
2	7:14	29	W	
3	7:14	25	W	
4	7:14	25	W	
5	7:18	26	W	
6	7:23	23	W	
7	7:41	21	W	
8	7:42	32	W	
9	7:47	18	E	
10	7:47	20	W	
11	7:49	20	W	
12	7:52	23	W	
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Location:1700 E 21st St				
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Speed Survey Log

Date: 6/17/2026				
PM				
SV= STOP SIGN VIOLATION (use "y")				
Veh #	Time	Speed	Direction	SV
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2	16:20	22	E	
3	16:29	17	E	
4	16:30	17	W	
5	16:32	24	W	
6	16:34	28	E	
7	16:37	18	W	
8	16:40	25	E	
9	16:41	20	E	
10	16:42	28	E	
11	16:45	16	E	
12	16:50	12	W	
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Speed Survey Log

Date: 6/18/2026				
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SV= STOP SIGN VIOLATION (use "y")				
Veh #	Time	Speed	Direction	SV
1	7:17	20	W	
2	7:17	23	W	
3	7:25	23	W	
4	7:25	22	W	
5	7:28	19	W	
6	7:31	22	W	
7	7:32	16	W	
8	7:34	25	W	
9	7:34	21	W	
10	7:40	29	W	
11	7:40	16	W	
12	7:43	20	E	
13	7:45	15	E	
14	7:48	23	E	
15	7:50	19	E	
16	7:51	18	E	
17	7:53	15	E	
18	7:57	24	W	
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Location:1700 E 21st St				
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Veh #	Time	Speed	Direction	SV
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Mission Police Department

Speed Survey Log

Date:6/19/2026				
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SV= STOP SIGN VIOLATION (use "y")				
Veh #	Time	Speed	Direction	SV
1	15:56	21	E	
2	16:02	22	E	
3	16:04	21	W	
4	16:04	29	E	
5	16:13	20	E	
6	16:15	27	W	
7	16:18	18	E	
8	16:21	28	W	
9	16:22	17	E	
10	16:24	21	W	
11	16:25	20	E	
12	16:26	21	E	
13	16:29	24	W	
14	16:32	21	E	
15	16:32	15	E	
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Location:1700 E 21st St				
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Total For Complete Speed Survey

Speed Limit:	30 MPH		
Total Vehicles	73		
Vehicles <u>NOT</u> Speeding	72		
Vehicles Speeding	1		
% of Speeders	1%	% of Compliance	99%
Highest Speed	32		
Lowest Speed	12		
85% Speed			
Stop Sign Violation	0		