Rock Creek Circle Neighborhood Meeting

Town of Superior – Neighborhood Traffic Calming Program

June 24, 2019

Tonight's Agenda

1. Introductions and review agenda (7:00 PM)
2. Neighborhood Traffic Calming Program overview (7:05 PM)
3. Review existing conditions data and feedback (7:15 PM)
4. Traffic calming toolbox options (7:45 PM)
5. Toolbox questionnaire (8:00 PM)
6. Next steps (8:25 PM)
7. Adjourn neighborhood meeting (8:30 PM)

2. Neighborhood Traffic Calming Program Overview

Neighborhood Traffic Calming Overview

- Community-wide holistic approach to road safety
- Outlines responsibilities of the residents, staff, and board
- Cleary identifies problem, evaluation, tools, and installation
- Outlines a petition, review process and removal criteria
- Timeline from request to installation is set by NTC process
- **Respect for the process even when not convinced of the outcome**

Lafayette, CO

Superior Traffic Calming Program Overview

<u>Adopted in December 2006</u>

- Define the process and criteria for designing & implementing traffic-calming measures.
- Direct traffic-calming expenditures to projects identified as priorities.
- Foster a collaborative relationship between residents & staff in implementing traffic- calming measures.
- Encourage residents' involvement in maintaining the safety & livability of their neighborhoods.

Superior Traffic Calming Program Overview

Town of Superior Neighborhood Traffic Calming Program (NTCP) Checklist: DRAFT June 3rd, 2019

Step 1: Project Initiation

Resident request: Complete NTCP application form with signatures of residents from 5 different households on affected street

Town initiated project: identified by staff.

Step 2: Data Collection

Traffic speed: Staff will collect traffic speed data. 85th percentile speed, 5 MPH over posted limit, will be noted.

Traffic volume: Staff will collect traffic volume data.

Accident history: Staff will review crash reports.

Amount of cut through traffic: Staff will review traffic volume data to determine cut through traffic levels.

Presence of school crossings: Staff will identify all school crossings in the area.

Presence of nearby pedestrian generators: Staff will identify all pedestrian trip generators in the area.

Number of affected households: Staff will identify households that could be impacted by speeding traffic and households that could experience changes from the proposed traffic calming tools.

Step 3: Eligibility Review

Review data: Transportation & Safety Committee reviews data and staff report.

Project eligible for design alternatives: If the Transportation Safety & Committee determines the project is eligible for traffic calming, it proceeds to step 4.

Affected Neighborhood: The Transportation & Safety Committee determines the affected neighborhood.

Step 4: Community Outreach

Neighborhood charrette: A neighborhood design charette is conducted with Staff to provide a summary of the existing conditions data and evaluates how, where and when the traffic calming tools could be applied.

Identify design alternatives: Staff summarizes input from the neighborhood design charette and prepares design alternatives utilizing the traffic calming tools.

Neighborhood input on design alternatives: Staff issues a survey on the proposed alternatives. The survey requires 50% of affected households to respond for the project to continue to step 5.

Step 5: TSC Final review

TSC final review: Transportation & Safety Committee reviews neighborhood design charrette input and survey results.

Project approved for Town Board consideration: If the Transportation Safety Committee determines the project has 65% approval (from survey responses) and is in the best interest of the Town, it will be recommended for Town Board review. If approved by the Town Board the project proceeds to construction.

Project not approved: If the Transportation & Safety Committee or Town Board do not approve the project it is not eligible for traffic mitigation for a period of two years.

NTCP Program Objectives Reminder

- Define the process and criteria for designing & implementing traffic-calming measures.
- Direct traffic-calming expenditures to projects identified as priorities.
- Foster a collaborative relationship between residents & staff in implementing traffic-calming measures.
- Encourage residents' involvement in maintaining the safety & livability of their neighborhoods.

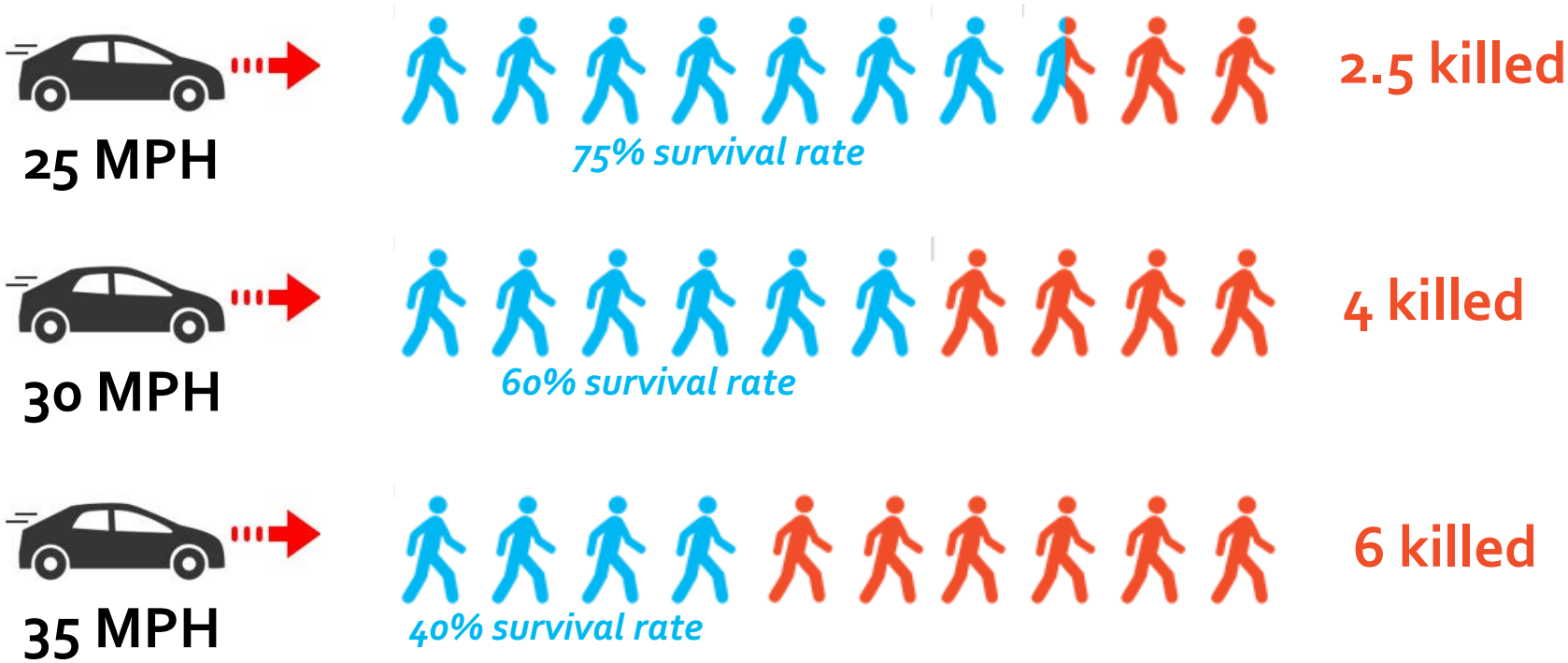
Neighborhood Traffic Calming Tools

- Chicanes, Closures, Combination Devices Diagonal Diverters Medians, Mid-block Chokers, Neckdowns, Neighborhood Identification Islands, Pedestrian Refuge Islands, Permanent Speed Display Units, Raised Crosswalks, Raised Intersections, Speed Humps, Street Striping/Pavement Markings, Street Trees & Vegetation, Traffic Circles, Turn Prohibitions, Directed Police Patrols, Neighborhood Speed Campaign, "Please Slow Down" yard signs, and Radar Speed Trailer.

Speed and volume criteria

- Only collector and local streets eligible
- 5 MPH over posted speed (85th percentile speed study)
- Traffic volumes +500 per day

Pedestrian survival rates by speed



https://www.ite.org/technical-resources/topics/speed-management-for-safety/speed-as-a-safety-problem/

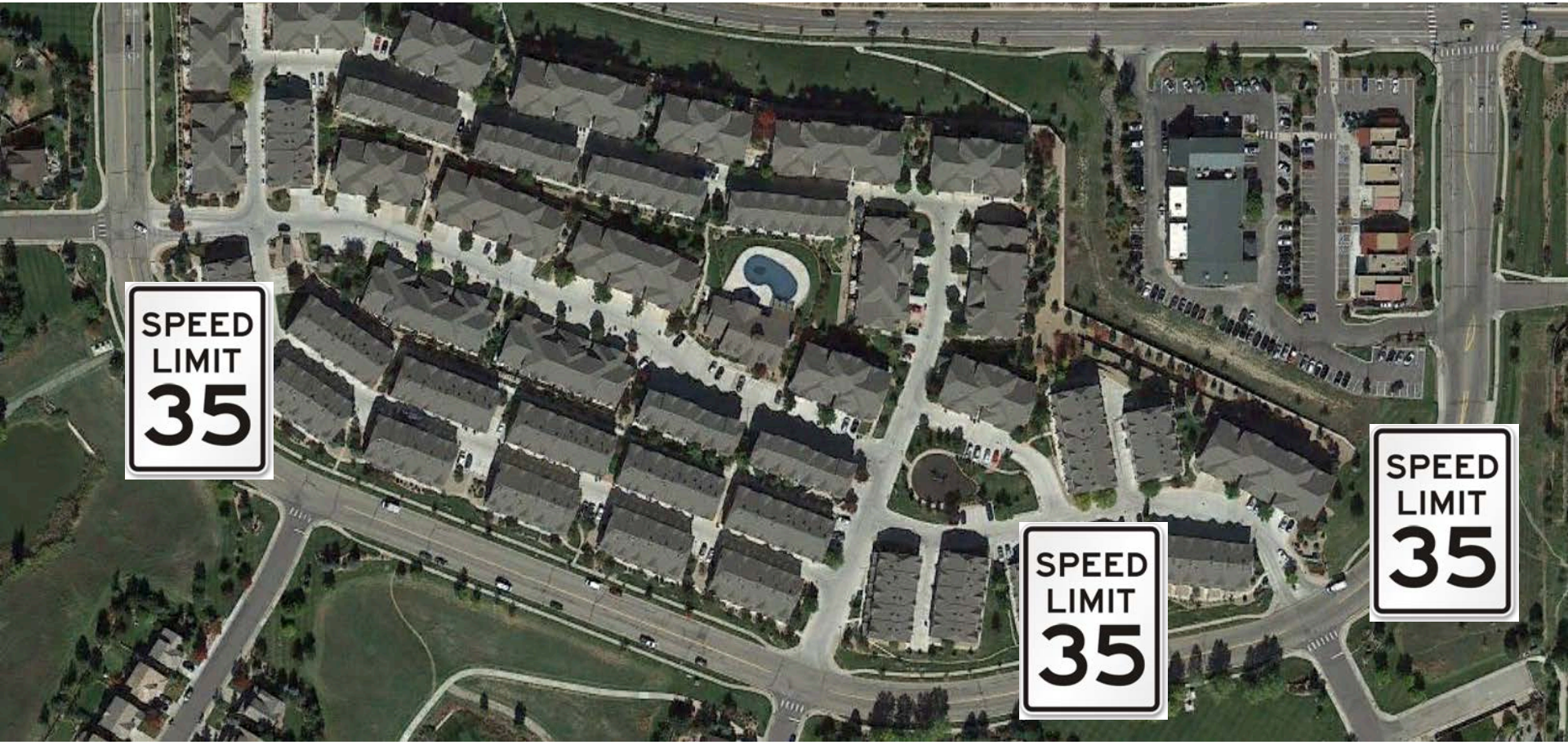
3. Existing Conditions Data

Rock Creek Circle (1999)

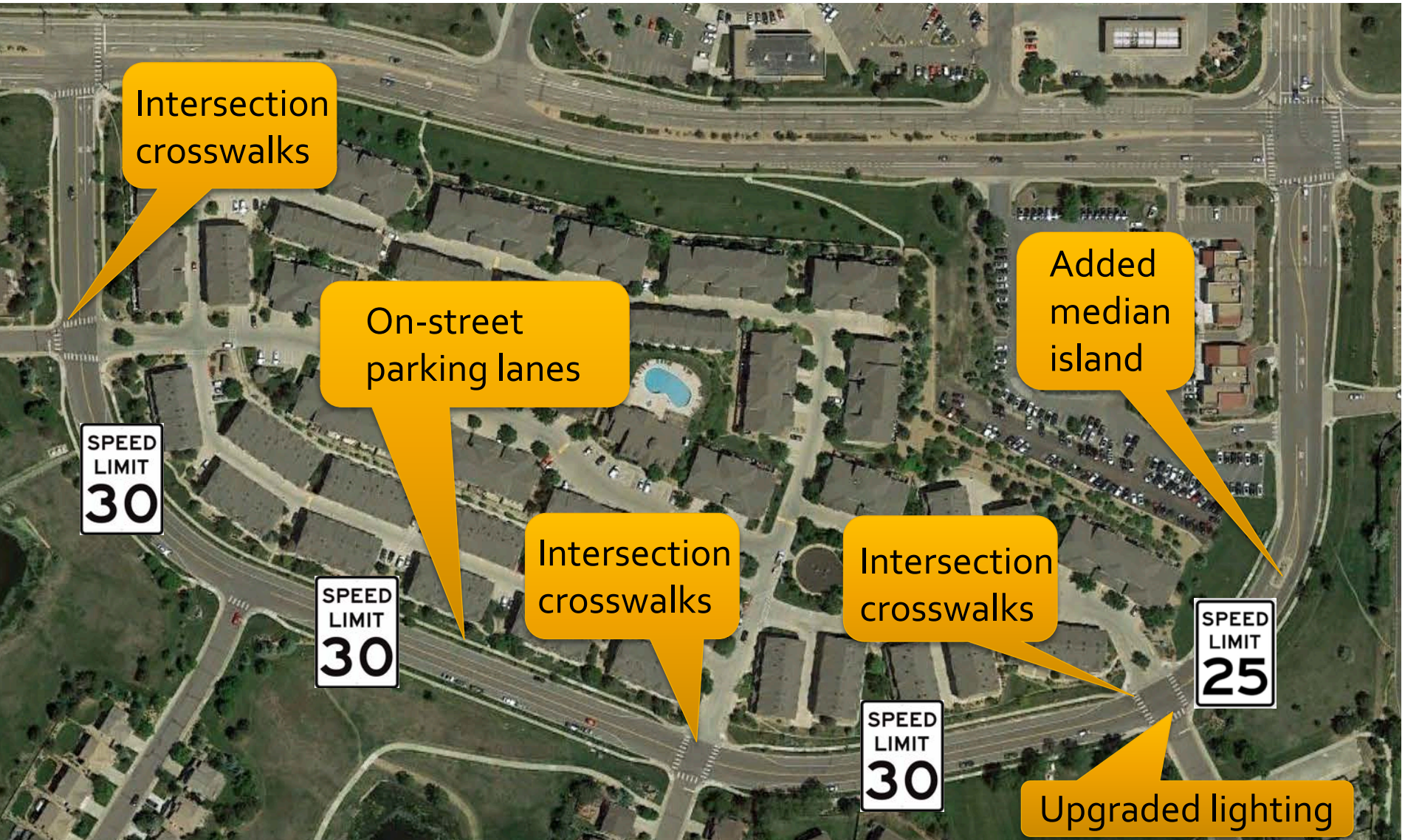
Rock Creek Circle (2012)

33 MPH westbound*
30 MPH eastbound*

**85th percentile speed on Rock Creek Circle in 2012*

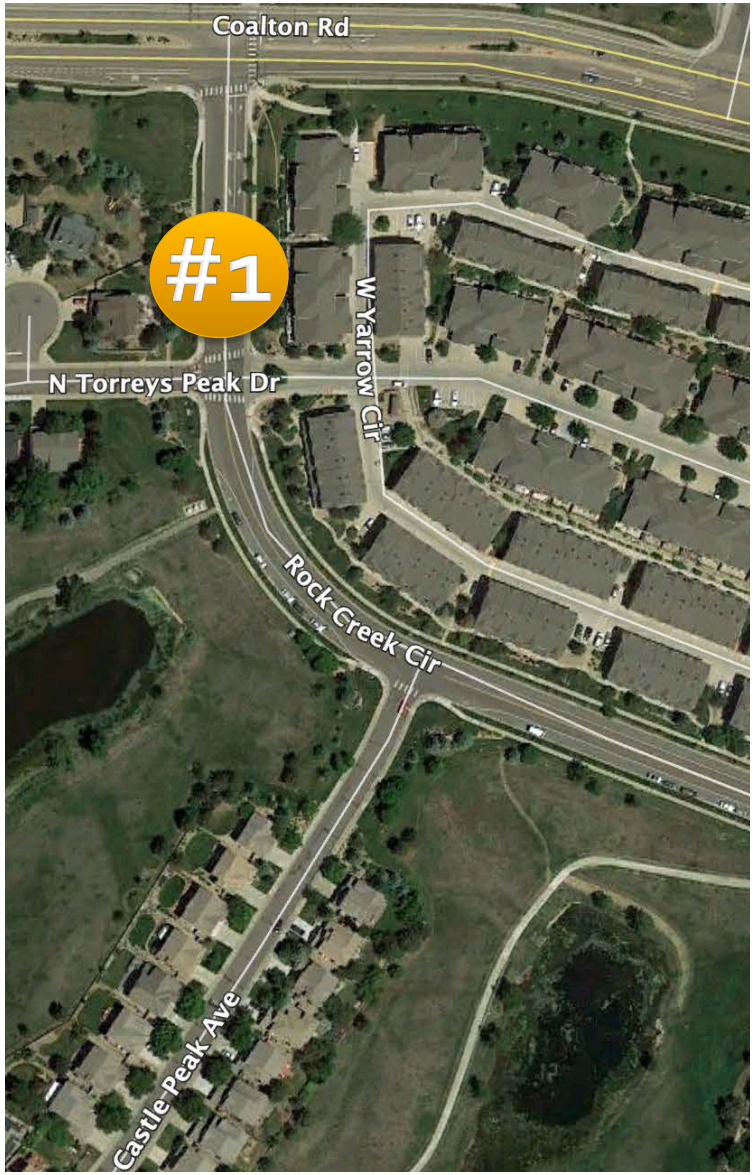


Rock Creek Circle (2017-2019)



Rock Creek Circle North of Torreys Peak

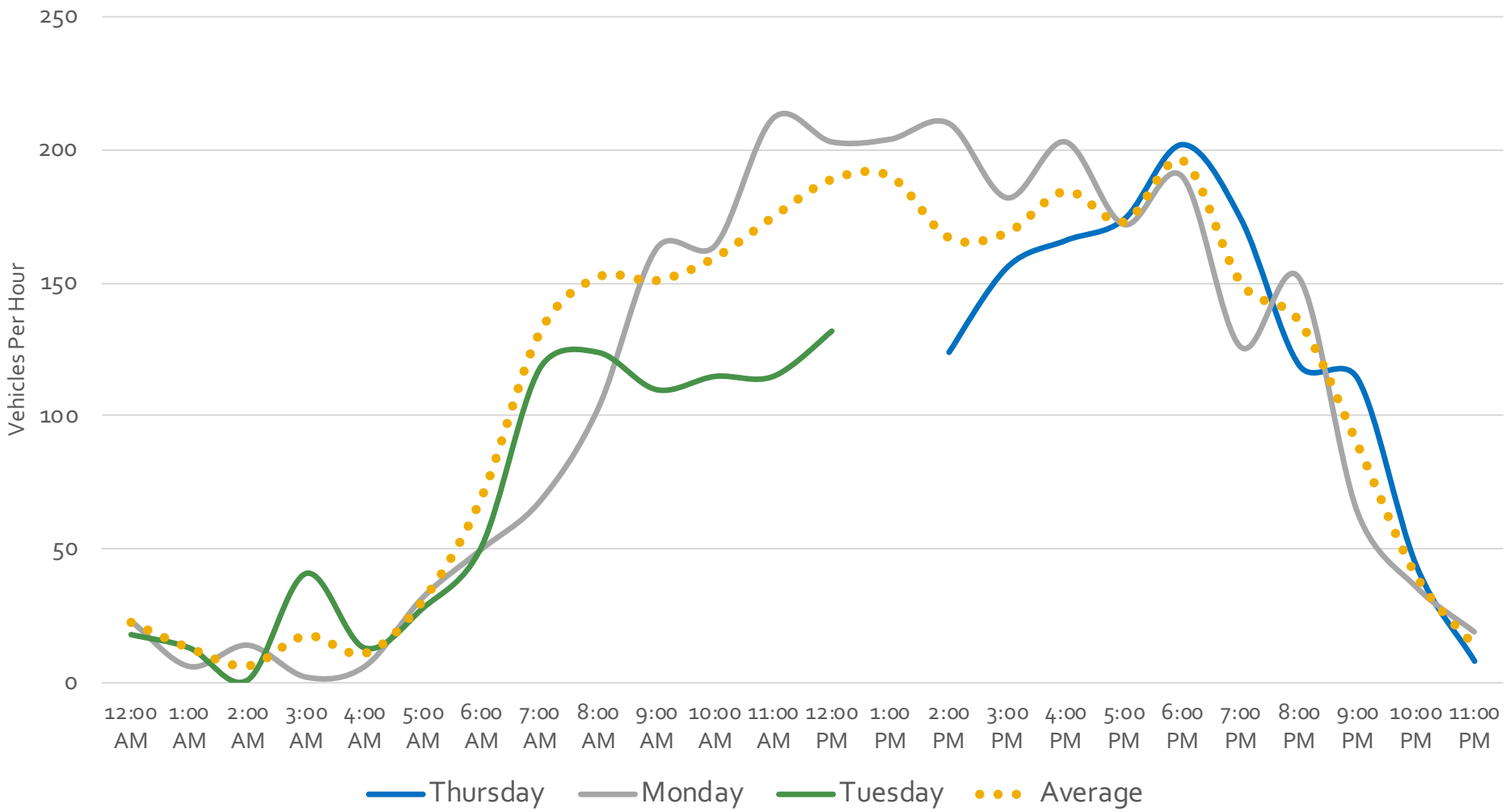
- 2,600 to 3,000 daily vehicles
  - 165 vehicles per hour most of the day
  - Consistent from 8AM to 8PM
- Holiday and typical weekday has similar traffic volumes
  - 11% less daily traffic on holiday
  - Less holiday traffic in AM peak
  - More holiday traffic midday
- Most speeds below posted 30 MPH limit
  - **Over 7,000 vehicles sampled**
  - 23 MPH*



*85th percentile speed

Rock Creek Circle North of Torreys Peak

Hourly Traffic Volumes



Note: Data collected in May 2018. Includes days when BVSD in session, holiday, and typical day

Peak Hour Intersection Counts

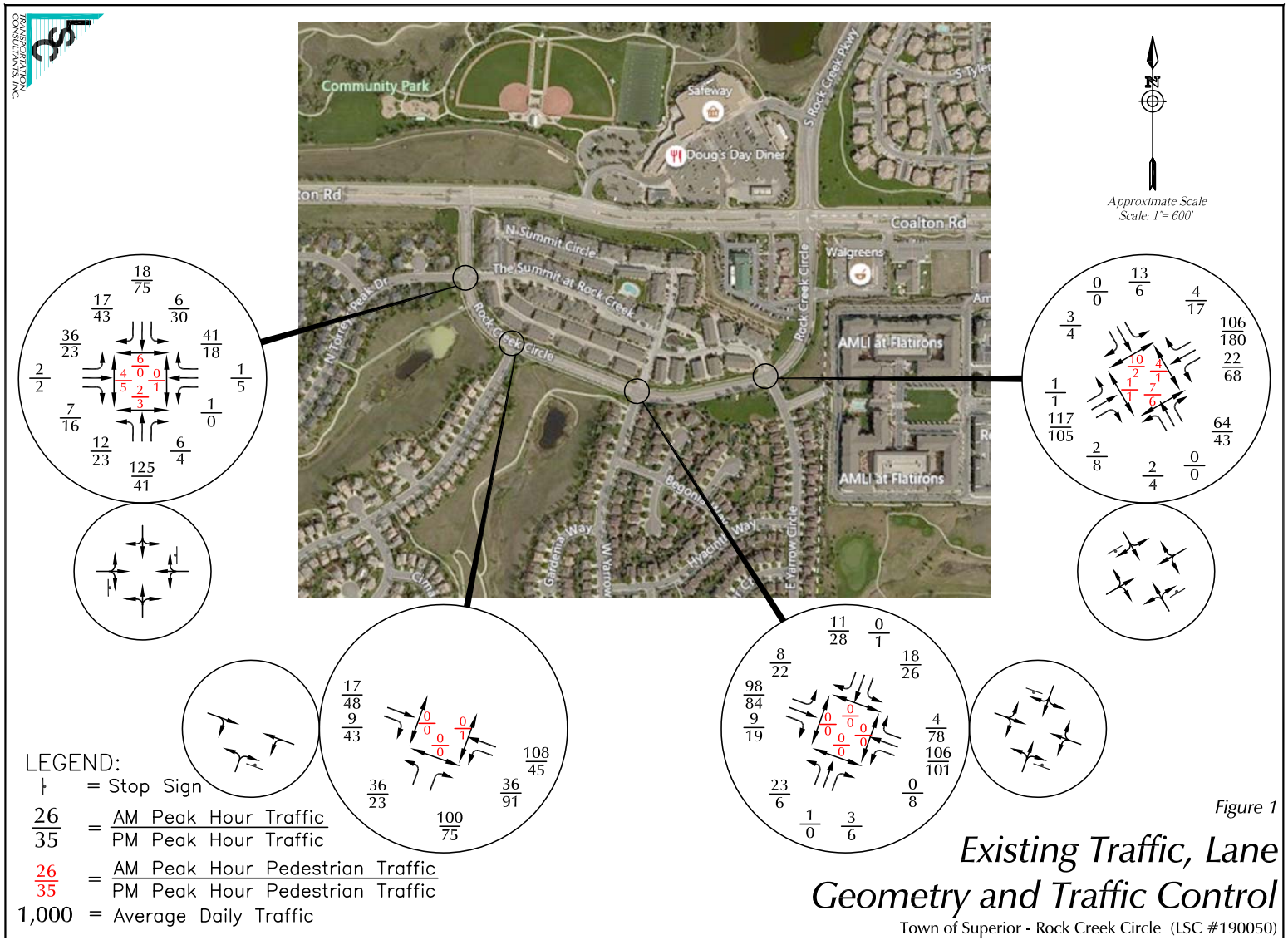


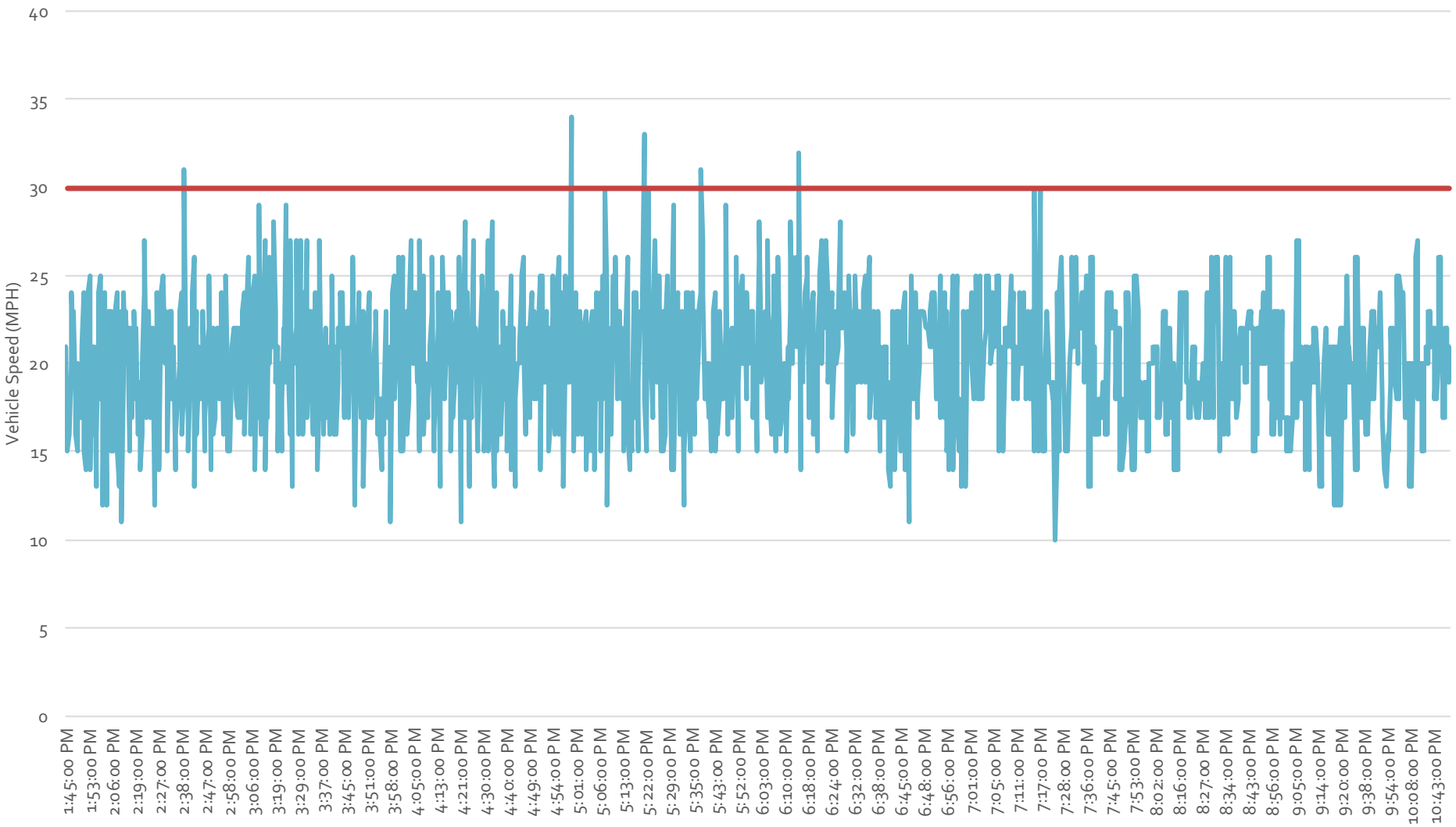
Figure 1

Existing Traffic, Lane Geometry and Traffic Control

Town of Superior - Rock Creek Circle (LSC #190050)

Rock Creek Circle North of Torreys Peak

Thursday Traffic Speeds

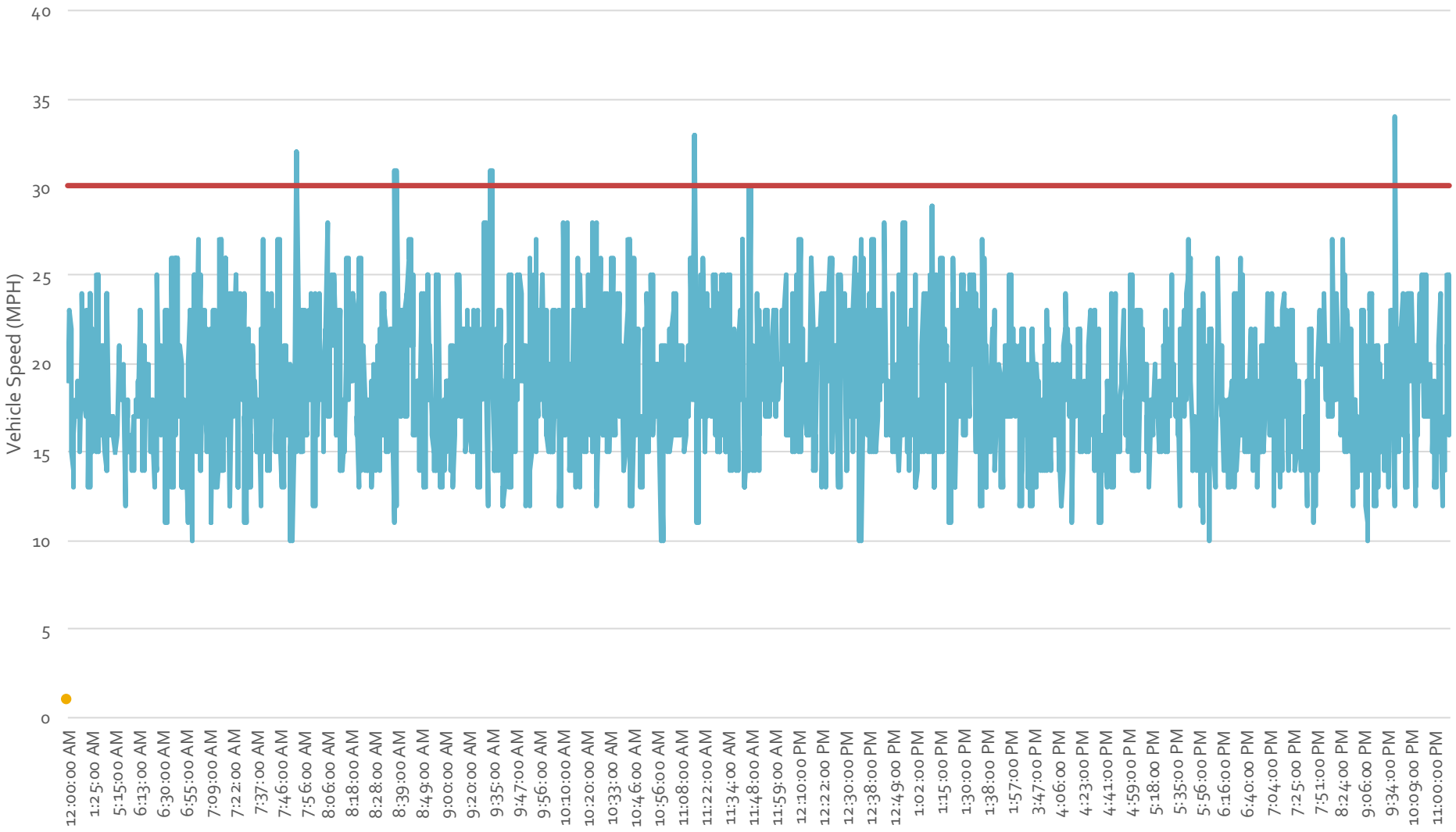


Note: Data collected on Thursday May 23rd, 2019 (2:00 PM to Midnight)

30 MPH Posted speed limit

Rock Creek Circle North of Torreys Peak

Friday Traffic Speeds

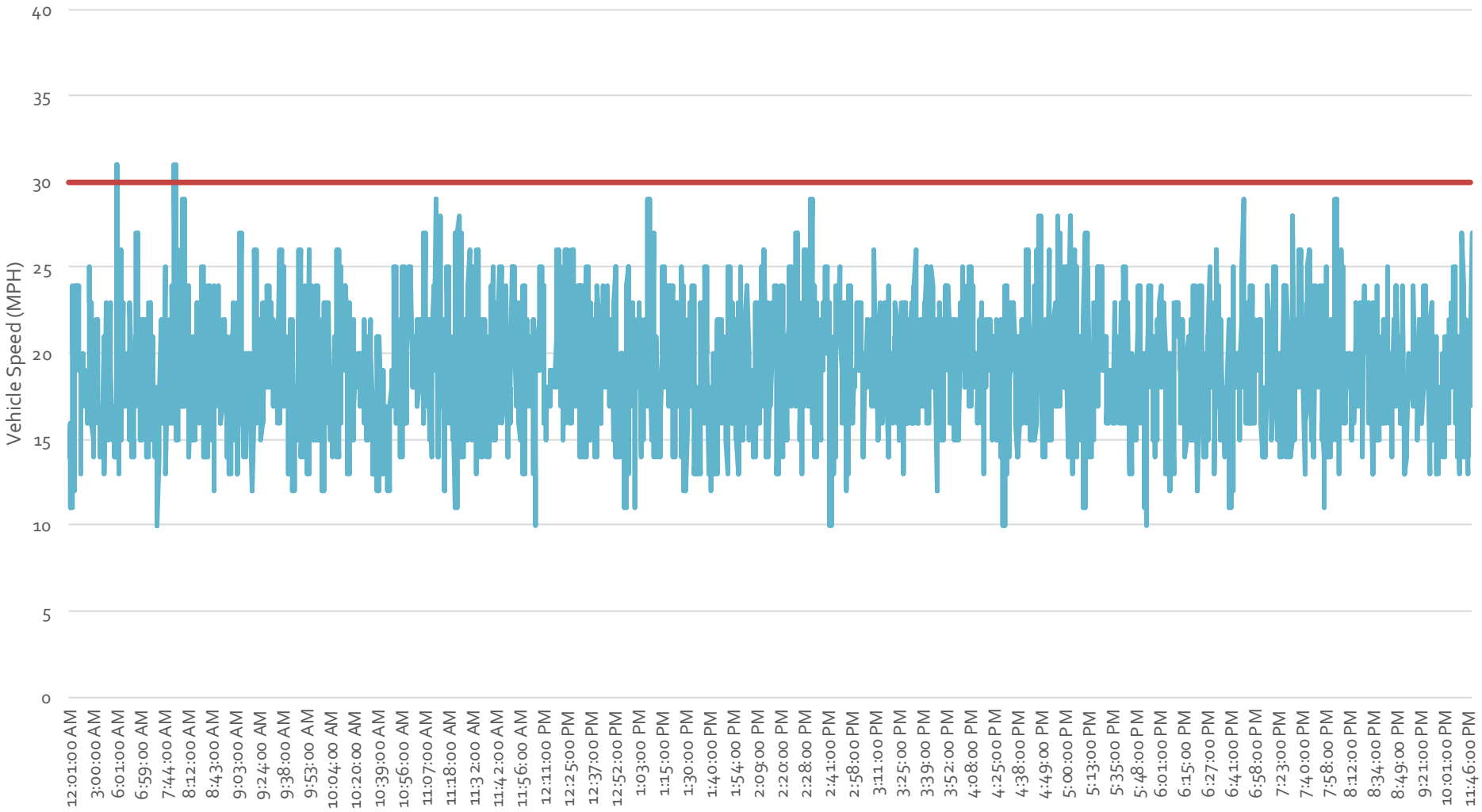


Note: Data collected on Friday May 24th, 2019 (24 hours)

30 MPH Posted speed limit

Rock Creek Circle North of Torreys Peak

Holiday Hourly Traffic Speeds

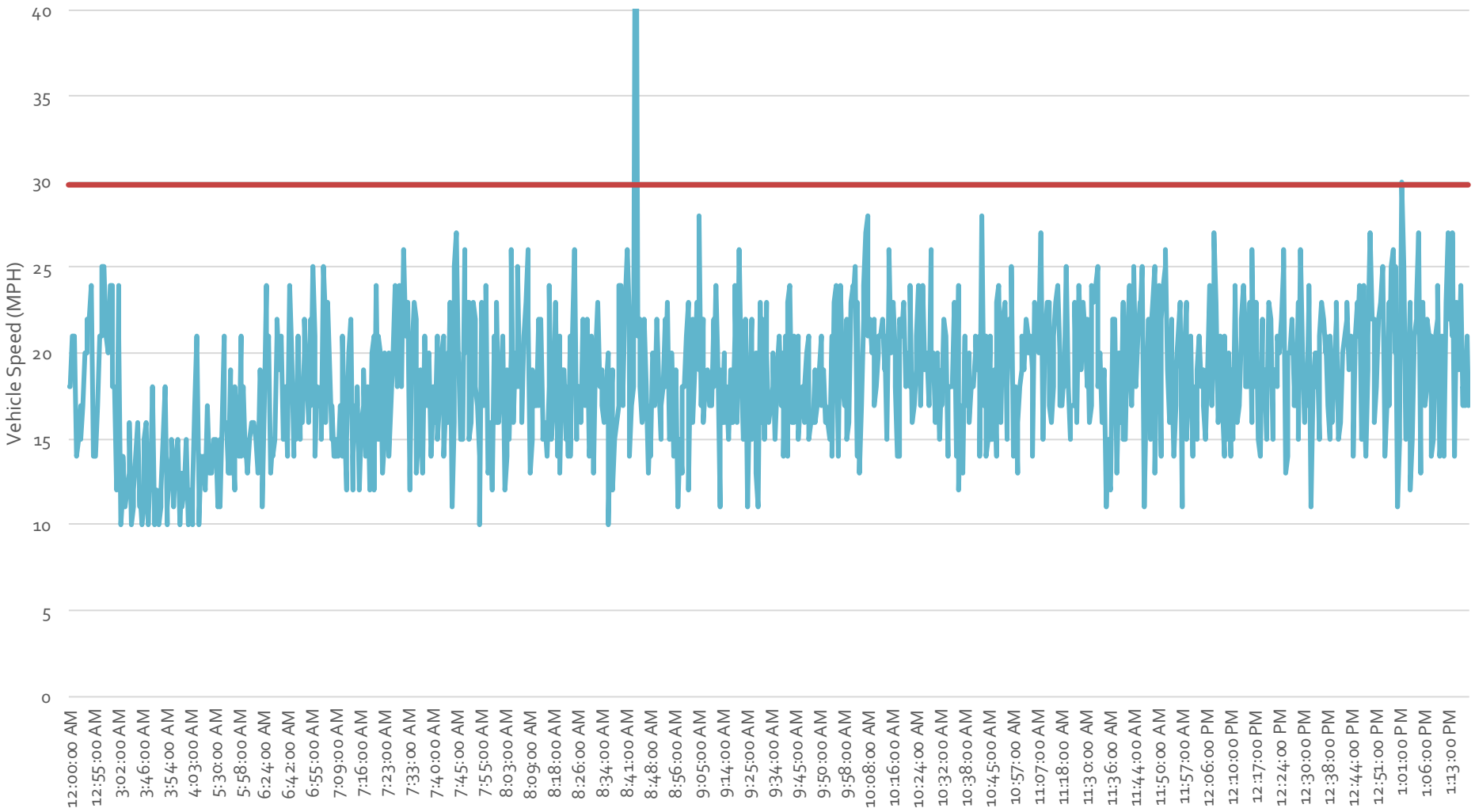


Note: Data collected on Monday May 27th, 2019 (24 Hours)

30 MPH Posted speed limit

Rock Creek Circle North of Torreys Peak

Tuesday Hourly Traffic Speeds

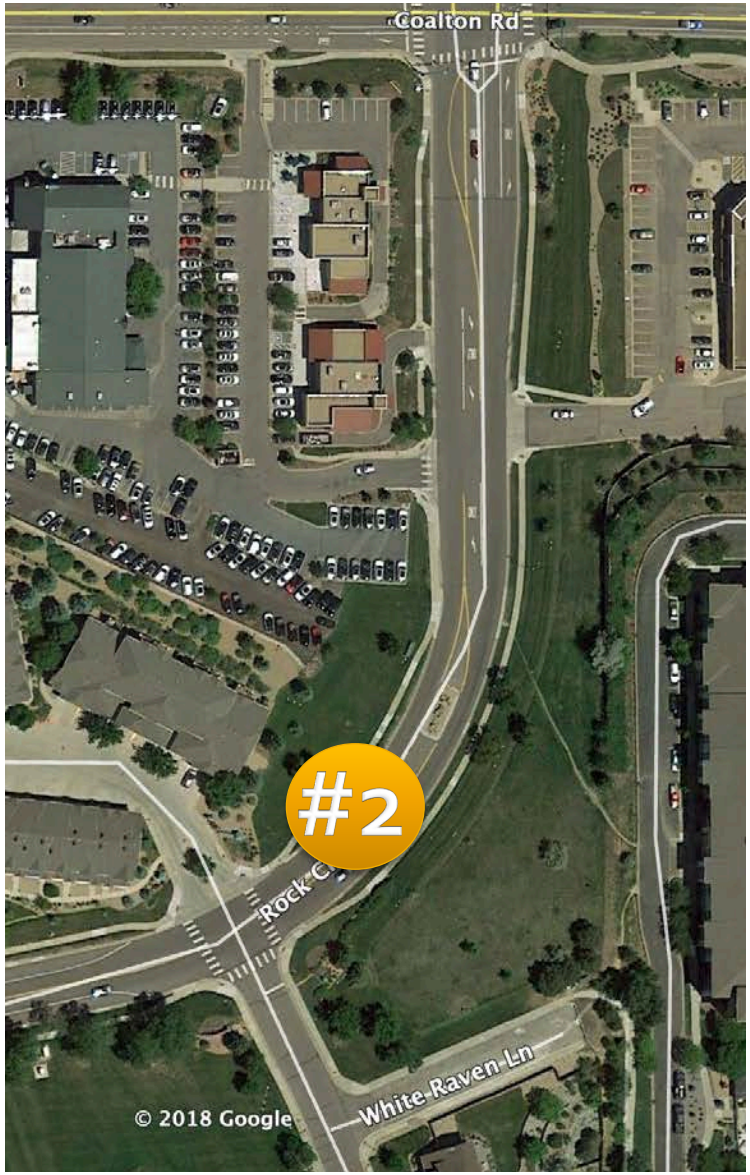


Note: Data collected on Tuesday, May 28th, 2019 (Midnight to 2:00 PM)

30 MPH Posted speed limit

Rock Creek Circle East of Yarrow

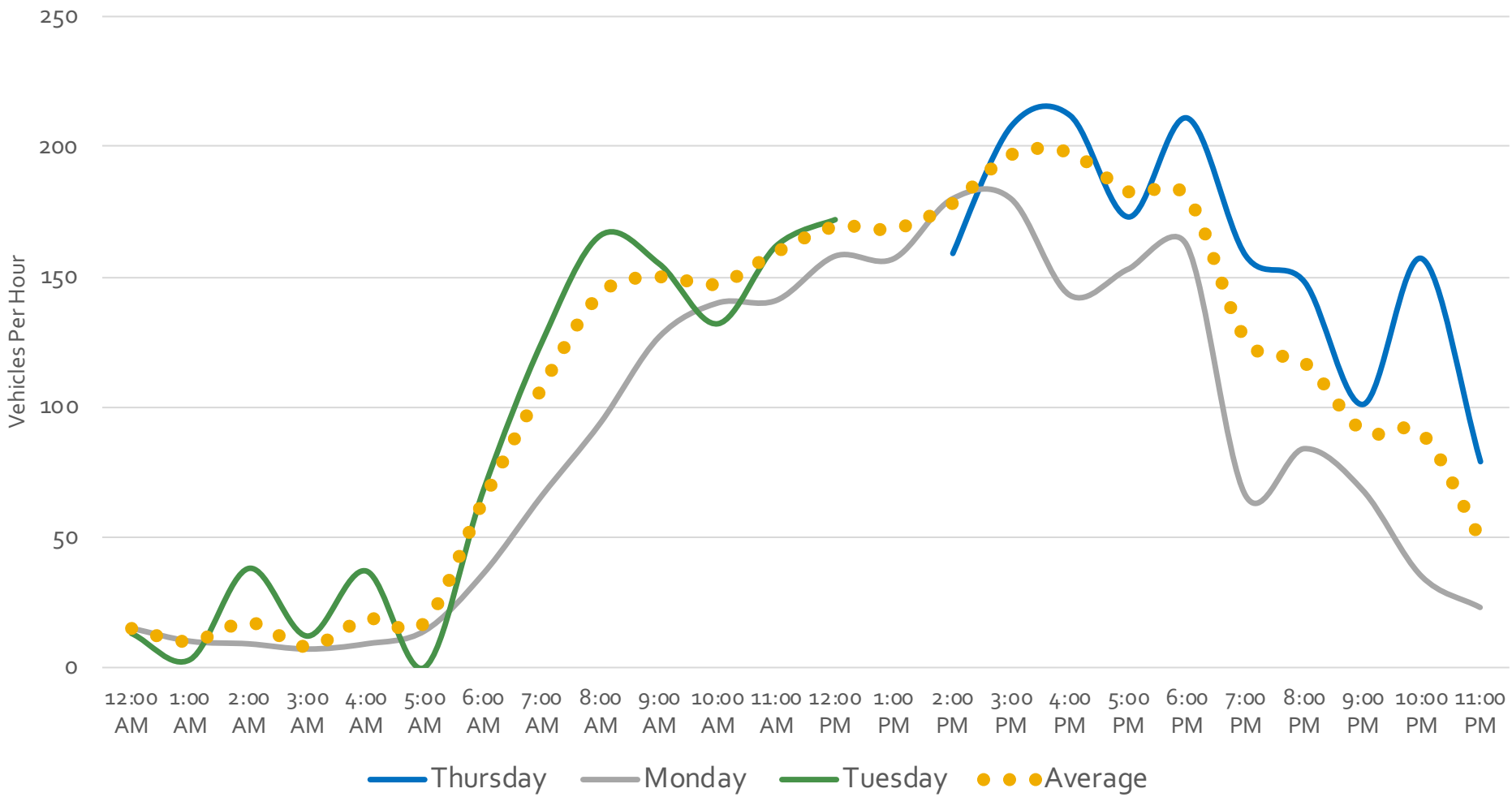
- 2,000 to 3,000 daily vehicles
  - 180 vehicles per hour most of the day
  - Consistent from 8AM to 8PM
- Holiday and typical weekday has similar traffic volumes
  - 28% less daily traffic on holiday
  - Less holiday traffic in AM/PM peak
- Most speeds over posted 30 MPH limit
  - **Over 12,000 vehicles sampled**
  - Downhill eastbound is 34 MPH*
  - Uphill westbound is 32 MPH *



*85th percentile speed

Rock Creek Circle East of Yarrow

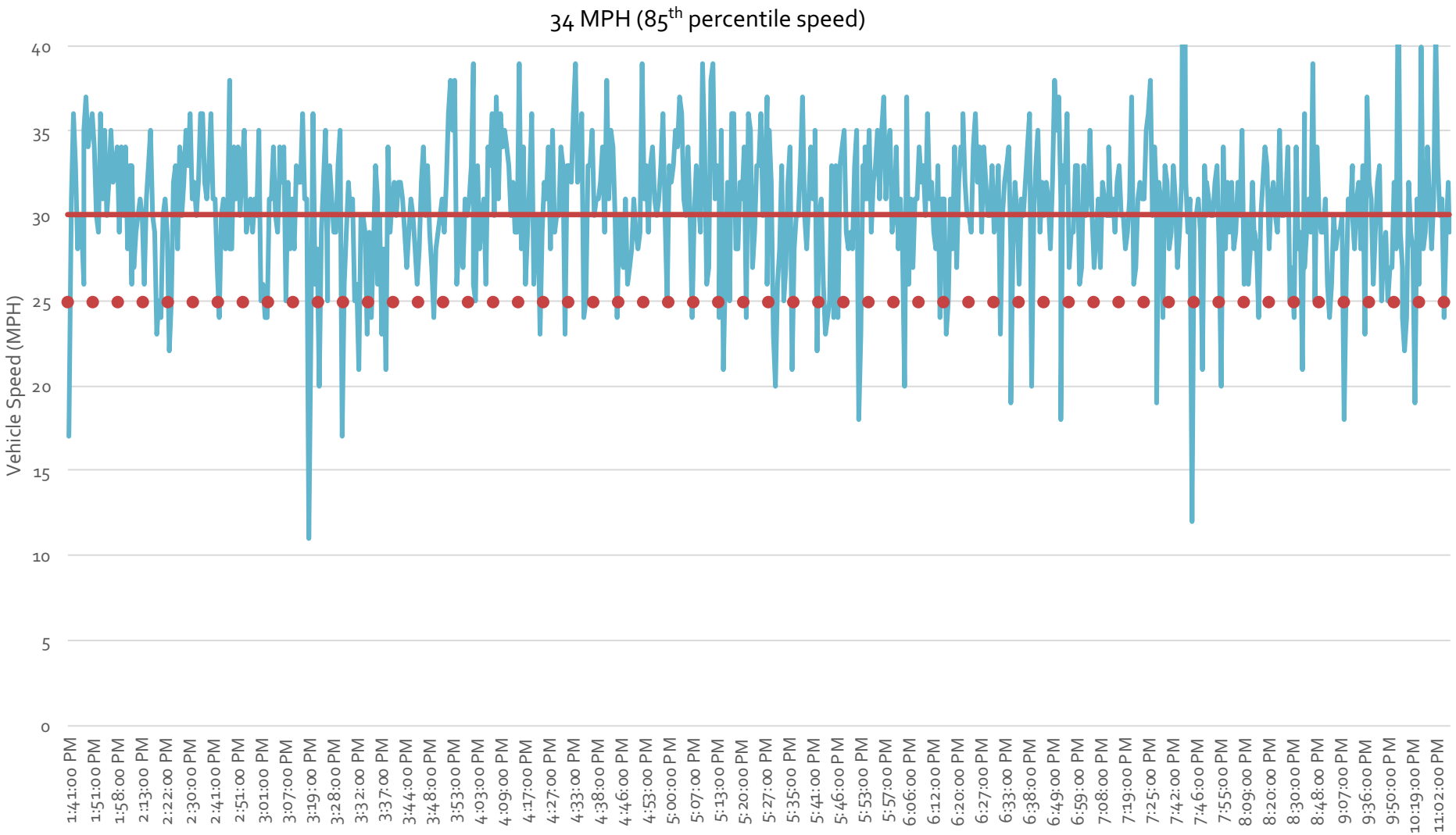
Hourly Traffic Volumes



Note: Data collected in May 2018. Includes days when BVSD in session, holiday, and typical day

Rock Creek Circle East of Yarrow (Downhill)

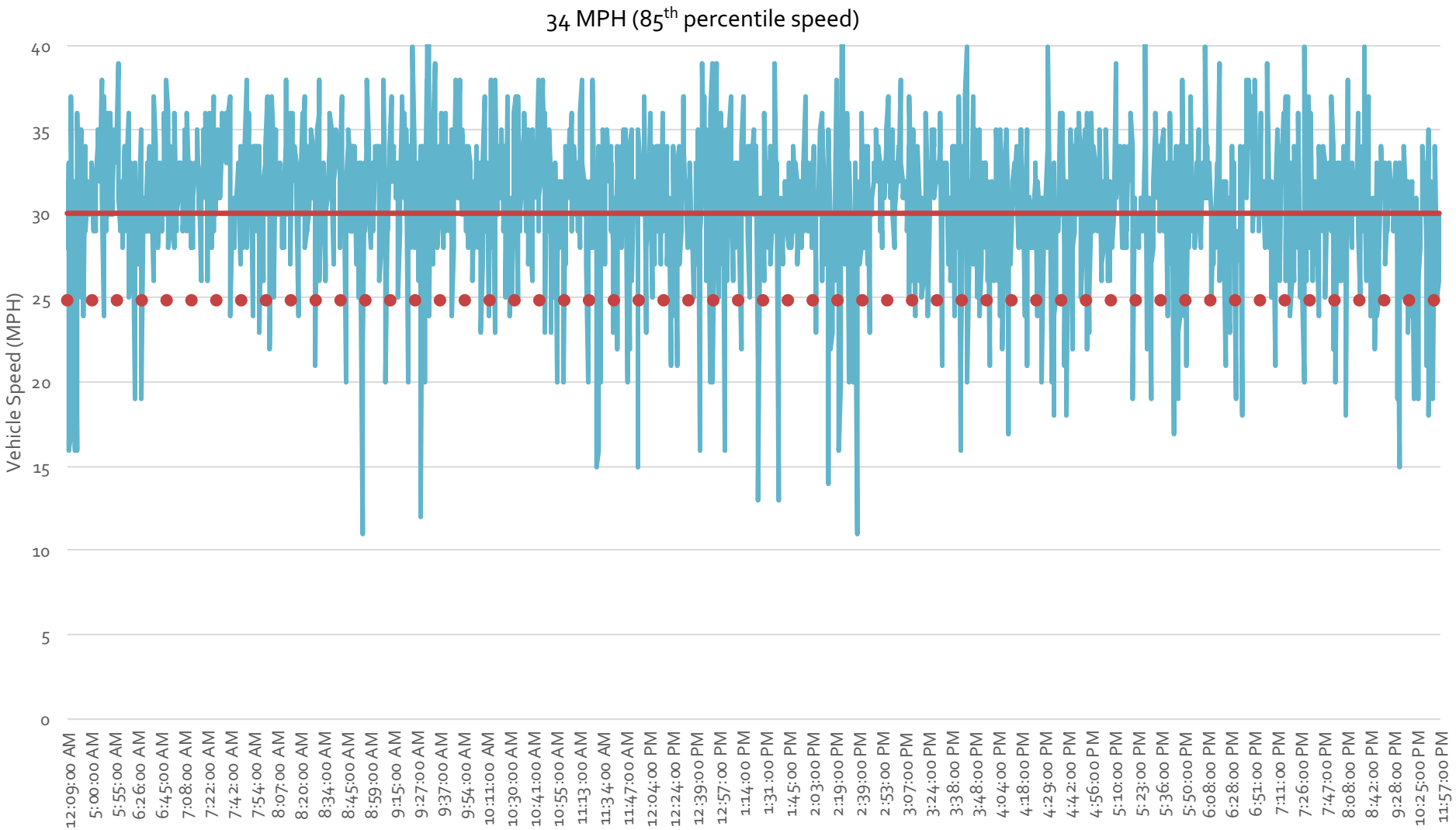
Thursday Traffic Speeds



Note: Data collected on Thursday May 23rd, 2019 (2:00 PM to Midnight)

Rock Creek Circle East of Yarrow (Downhill)

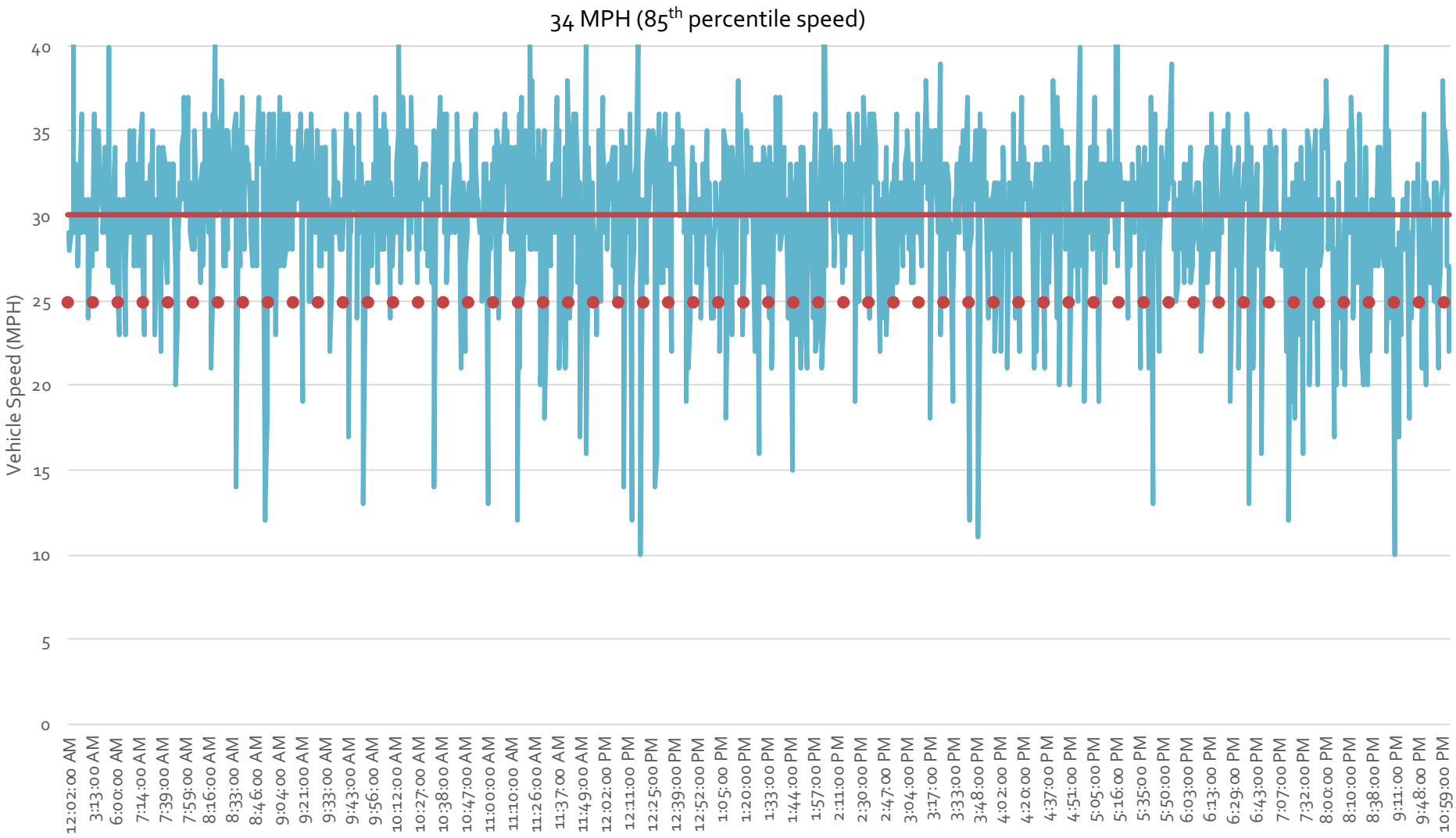
Friday Traffic Speeds



Note: Data collected on Friday May 24th, 2019 (24 hours)

Rock Creek Circle East of Yarrow (Downhill)

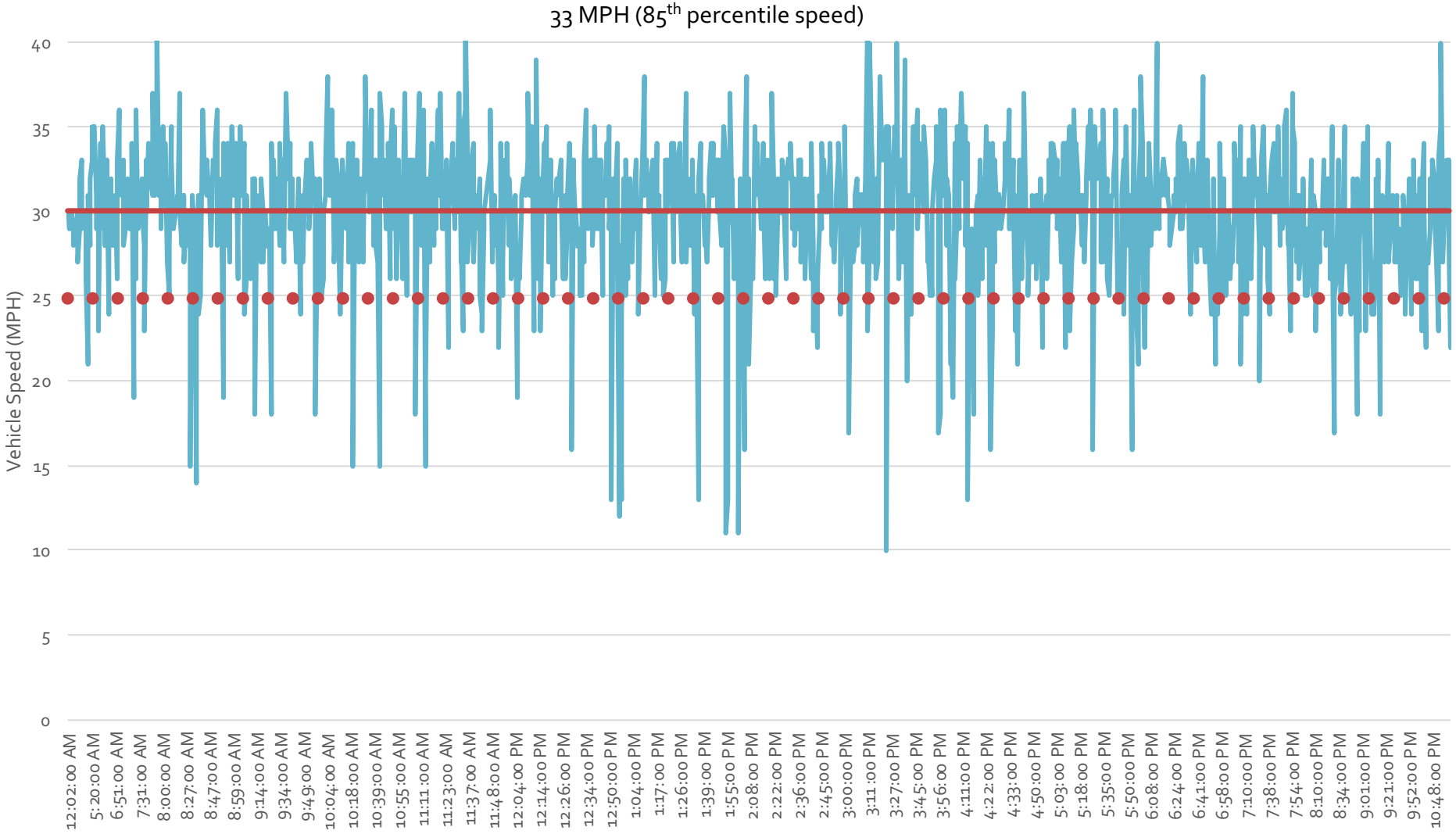
Saturday Traffic Speeds



Note: Data collected on Saturday May 25th, 2019 (24 hours)

Rock Creek Circle East of Yarrow (Downhill)

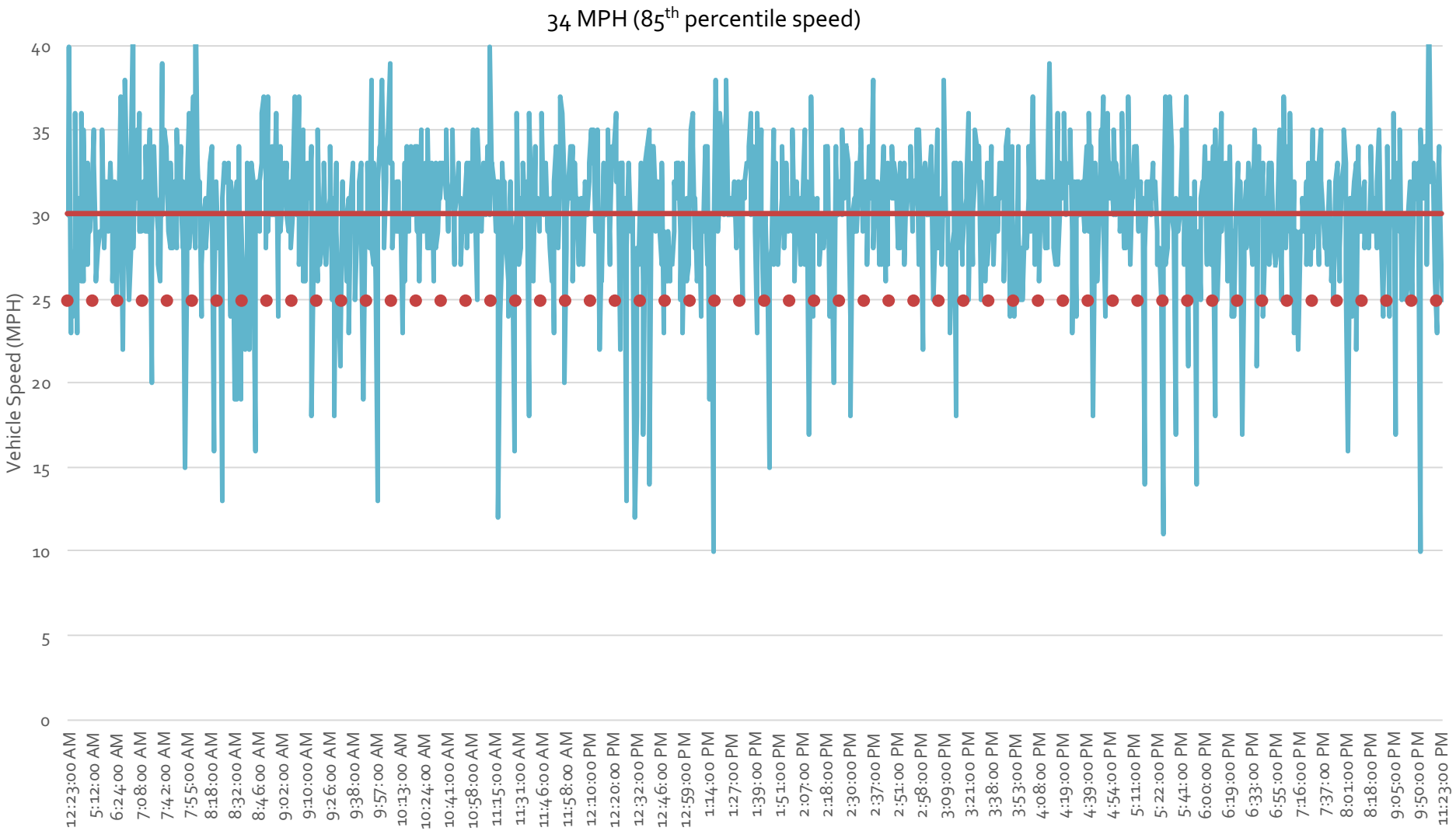
Sunday Traffic Speeds



Note: Data collected on Sunday May 26th, 2019 (24 hours)

Rock Creek Circle East of Yarrow (Downhill)

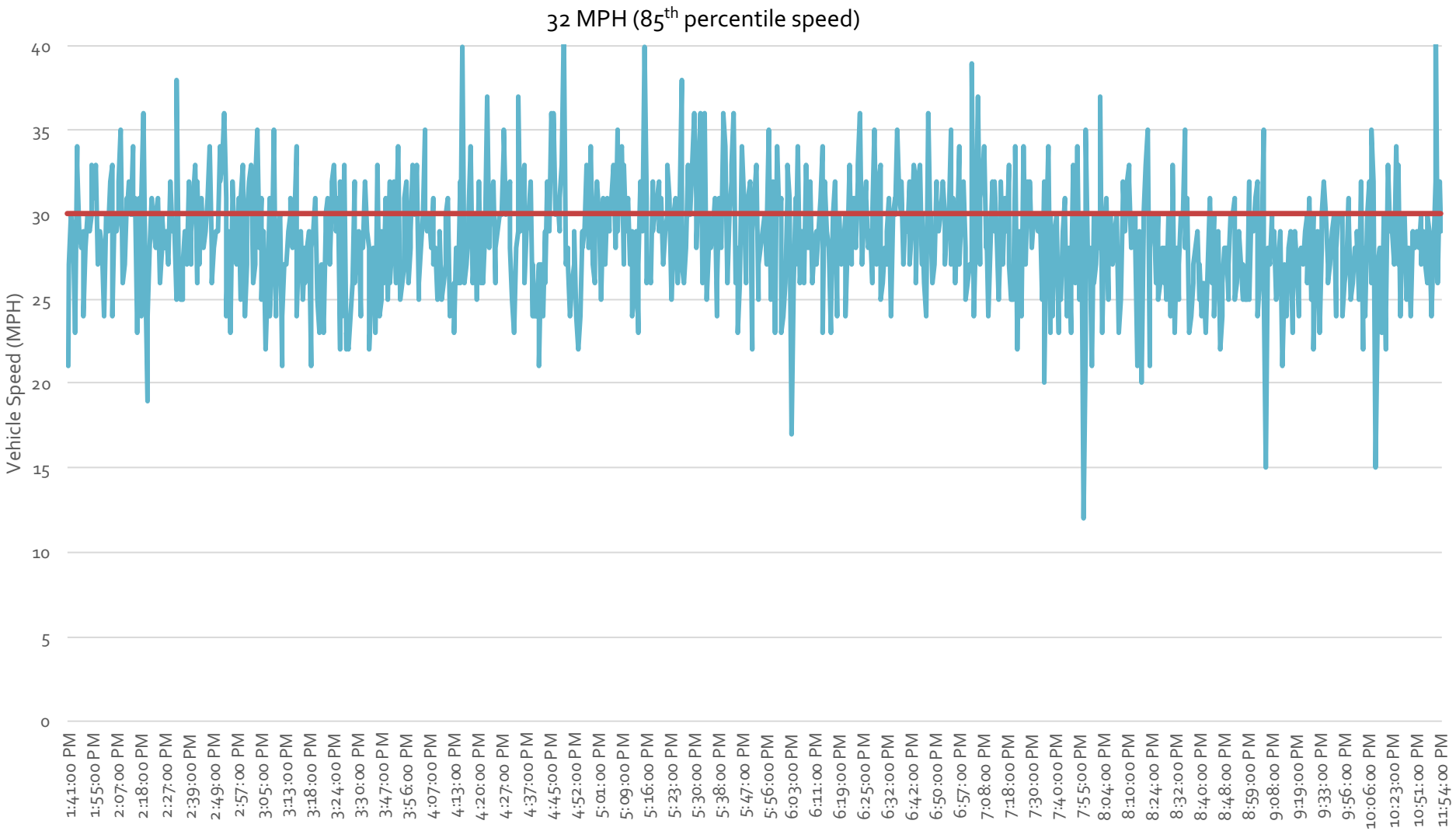
Monday Traffic Speeds



Note: Data collected on Monday May 27th, 2019 (24 hours)

Rock Creek Circle East of Yarrow (Uphill)

Thursday Traffic Speeds

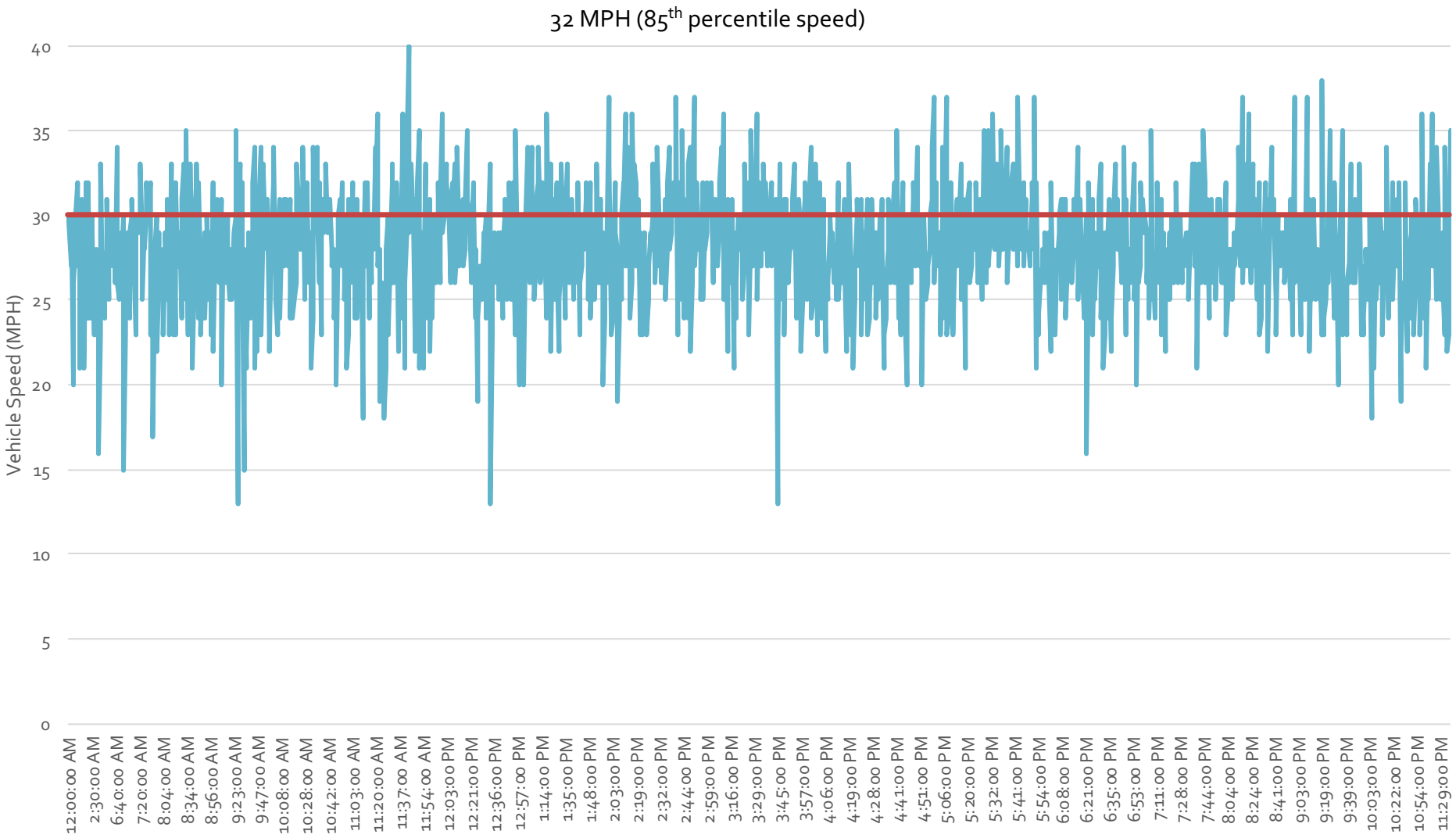


Note: Data collected on Thursday May 23rd, 2019 (2:00 PM to Midnight)

30 MPH Posted speed limit

Rock Creek Circle East of Yarrow (Uphill)

Friday Traffic Speeds

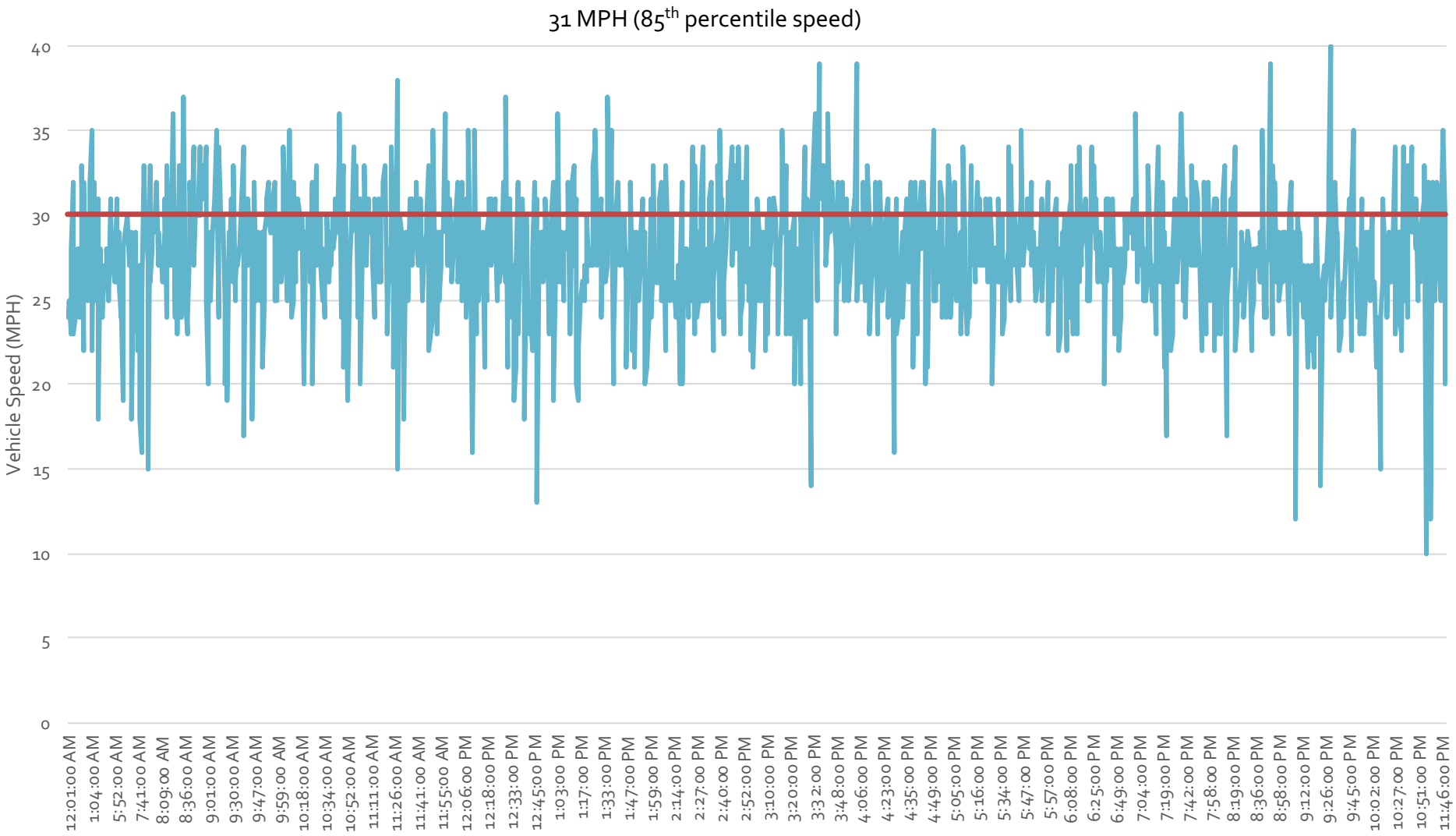


Note: Data collected on Friday May 24th, 2019 (24 hours)

30 MPH Posted speed limit

Rock Creek Circle East of Yarrow (Uphill)

Saturday Traffic Speeds



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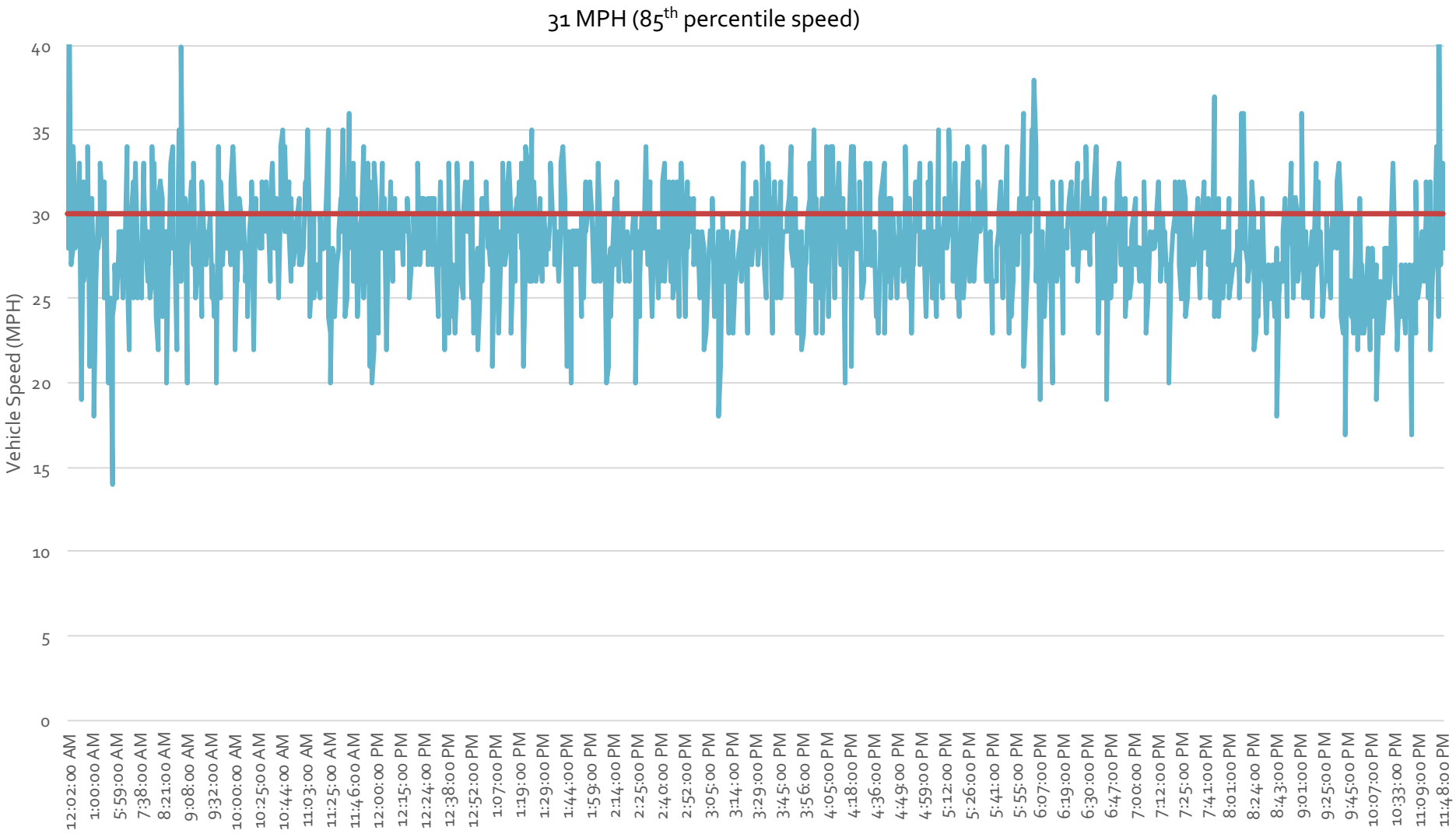
30 MPH Posted speed limit

Rock Creek Circle East of Yarrow (Uphill)

Sunday Traffic Speeds



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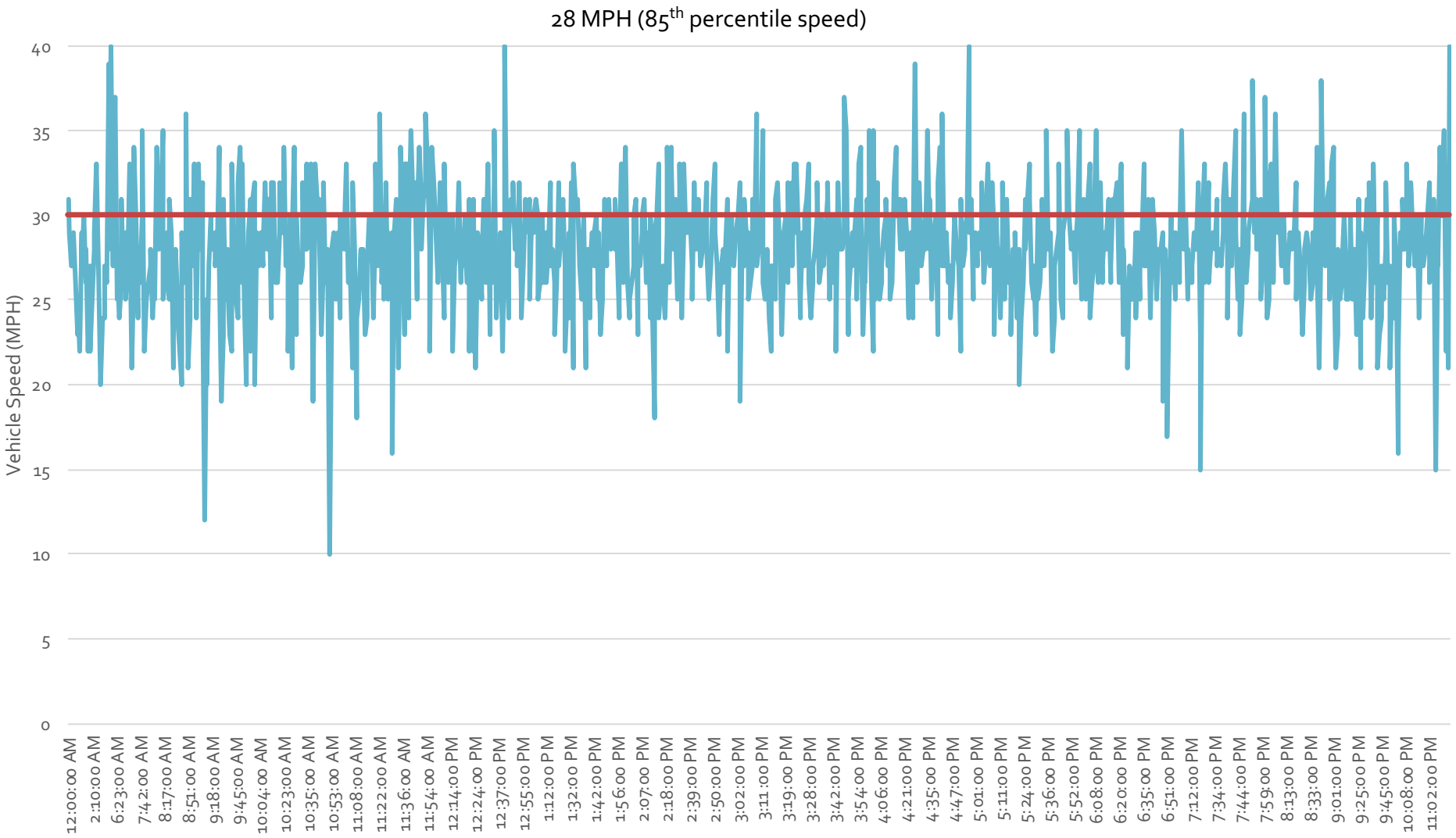
30 MPH Posted speed limit

Rock Creek Circle East of Yarrow (Uphill)

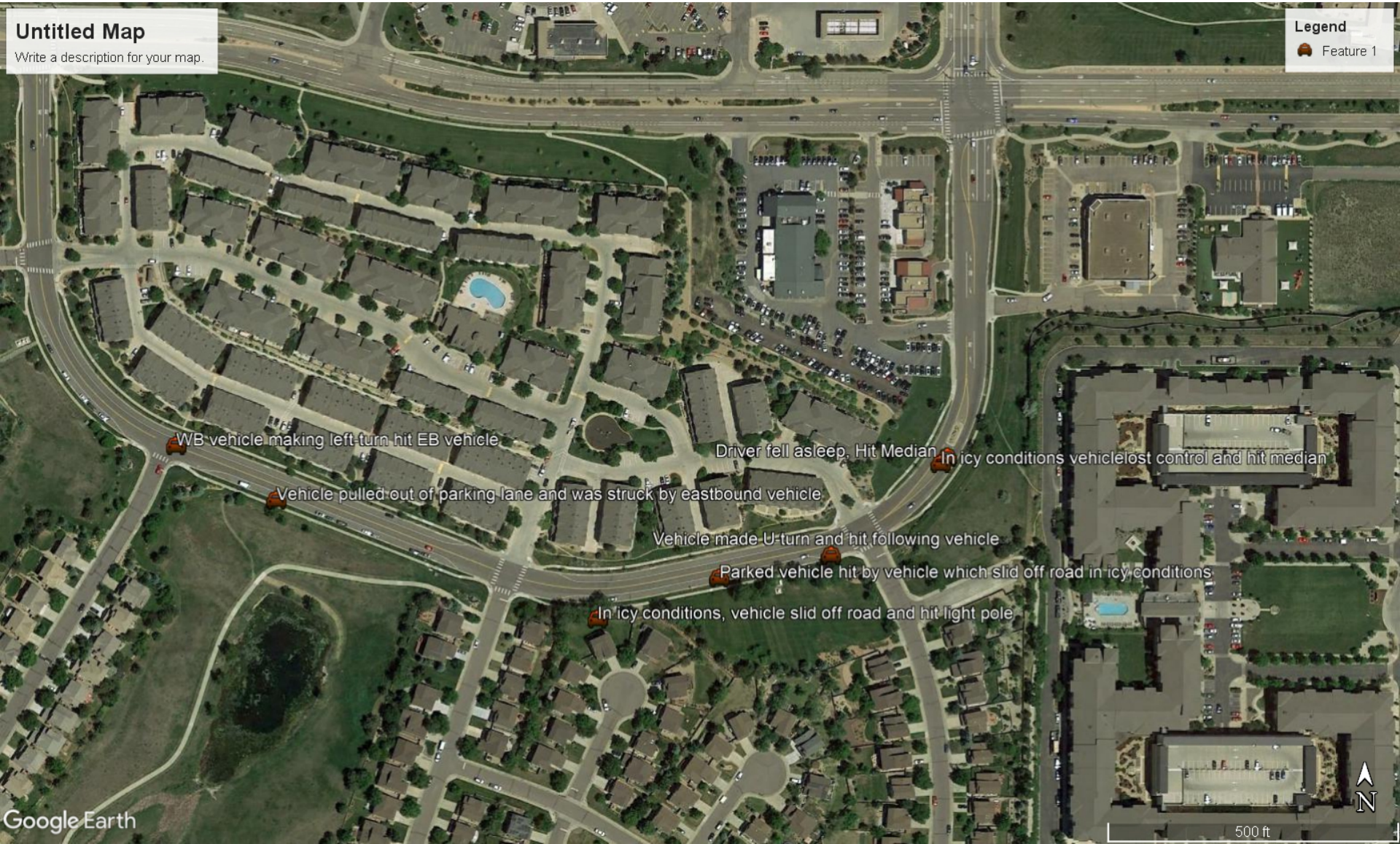
Monday Traffic Speeds



Note: Data collected on Monday May 27th, 2019 (24 hours)

30 MPH Posted speed limit

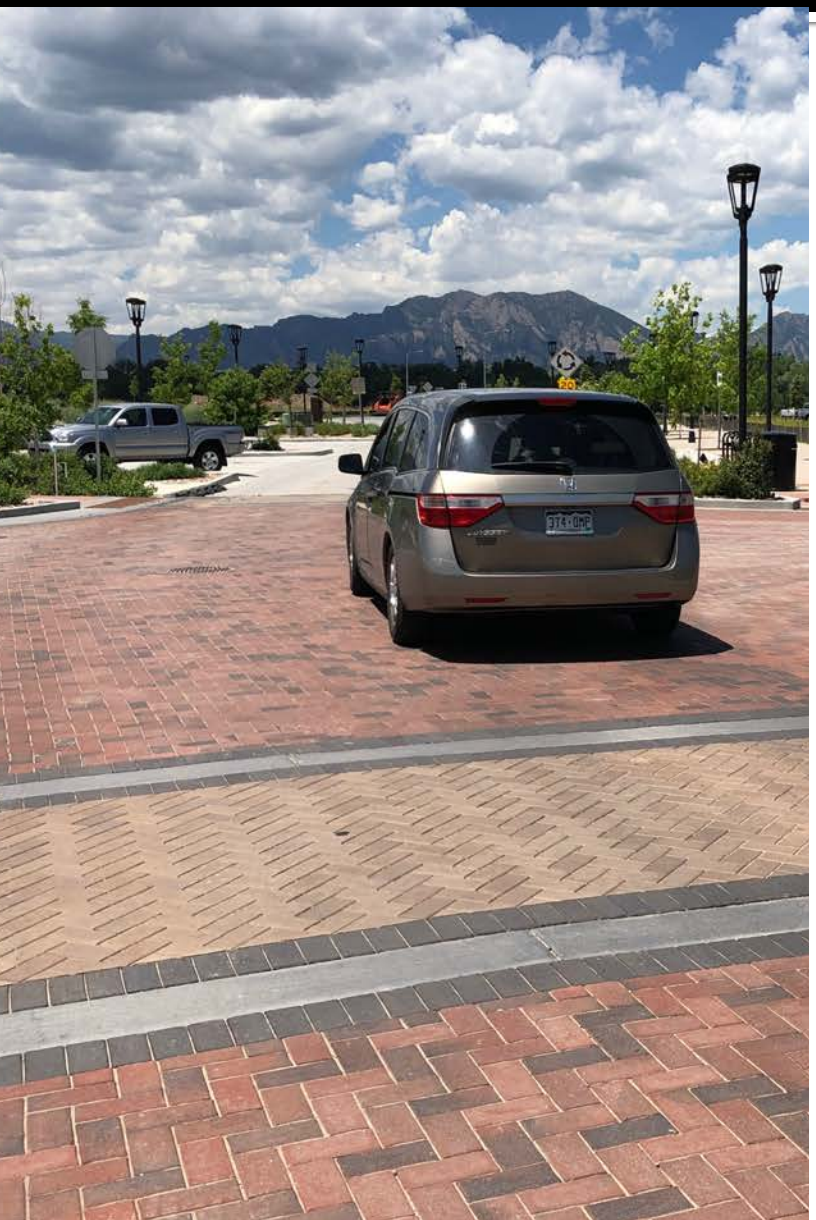
Rock Creek Circle Crash Data

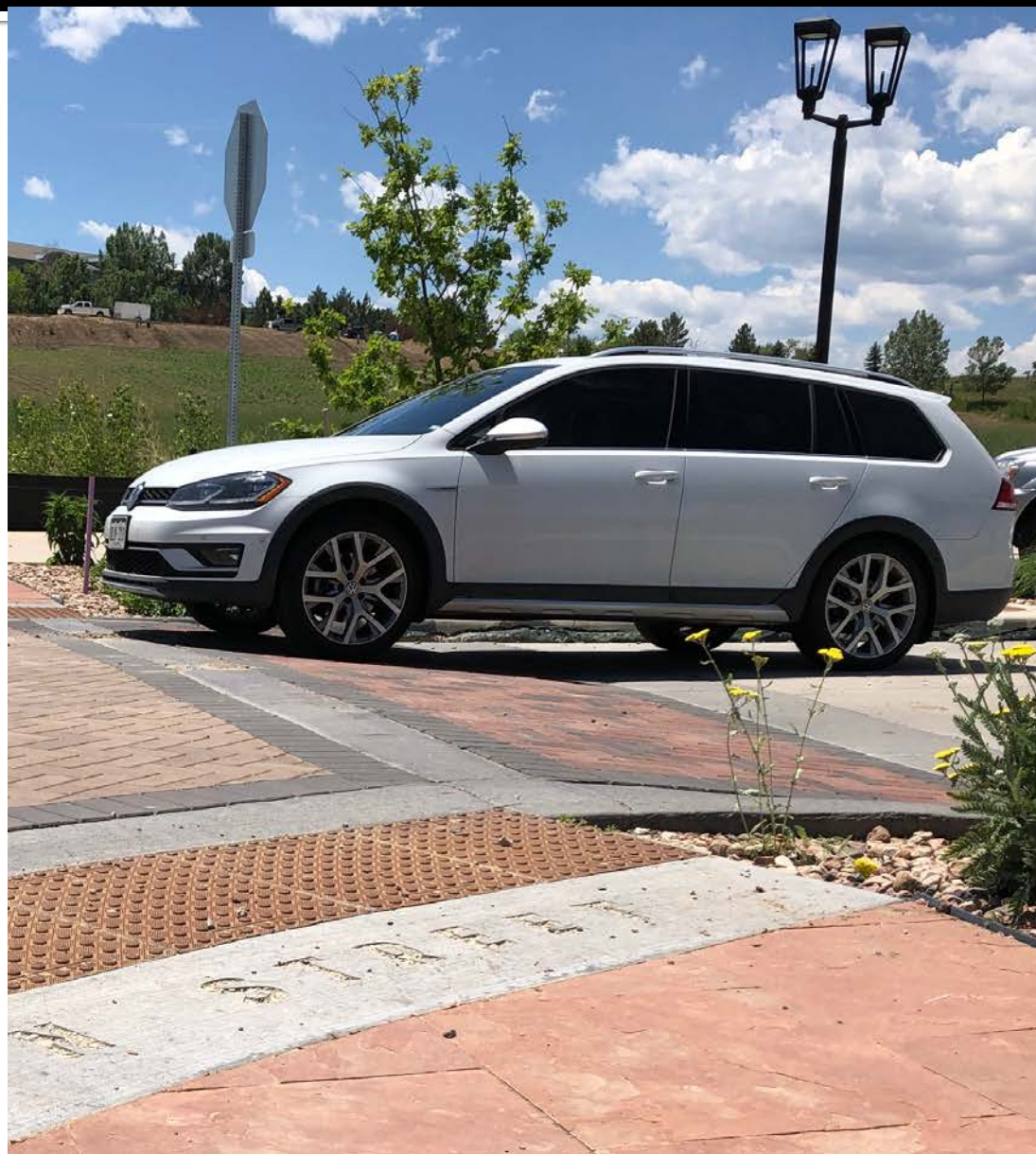


4. Traffic Calming Toolbox

Speed Humps

Intersection Speed Tables



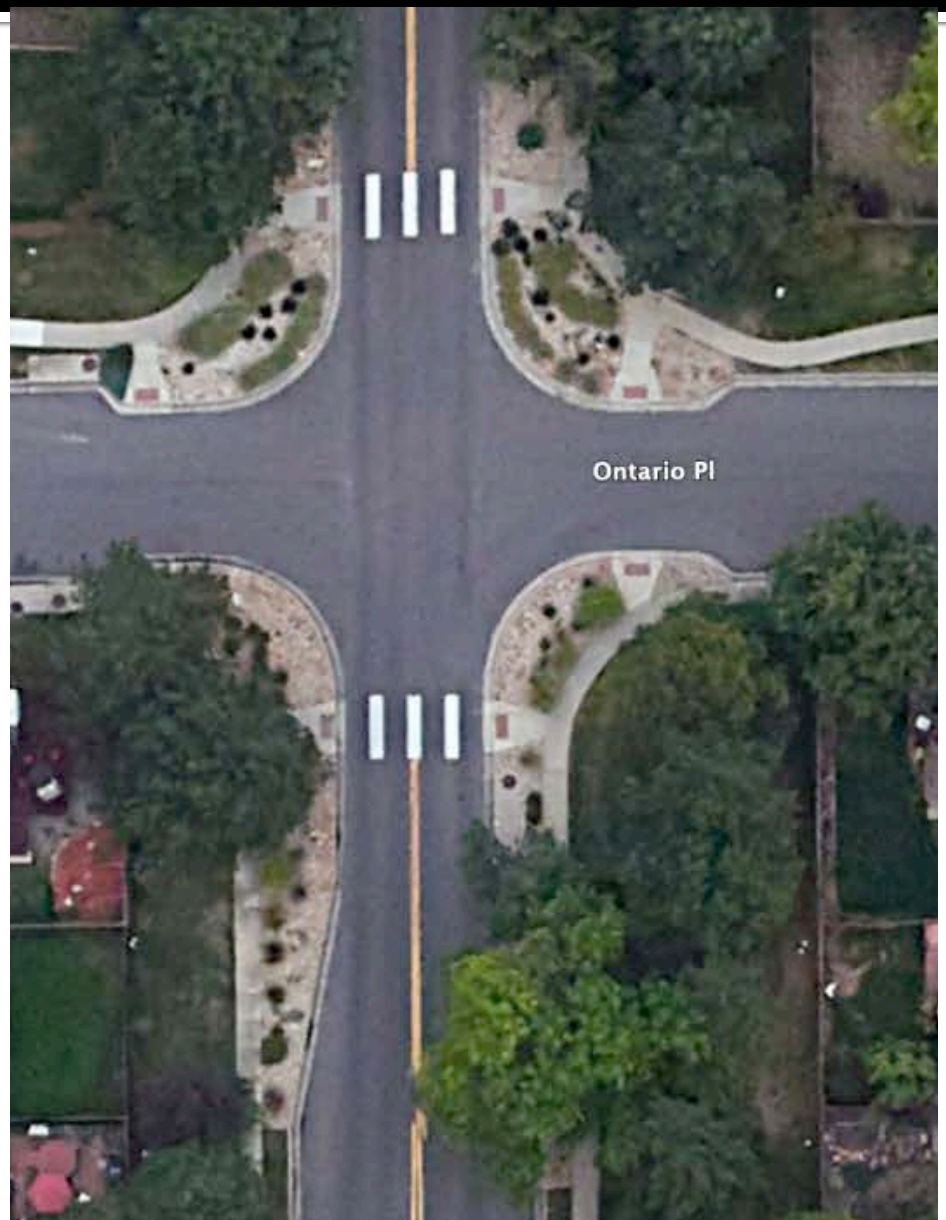


Raised Pedestrian Crossing

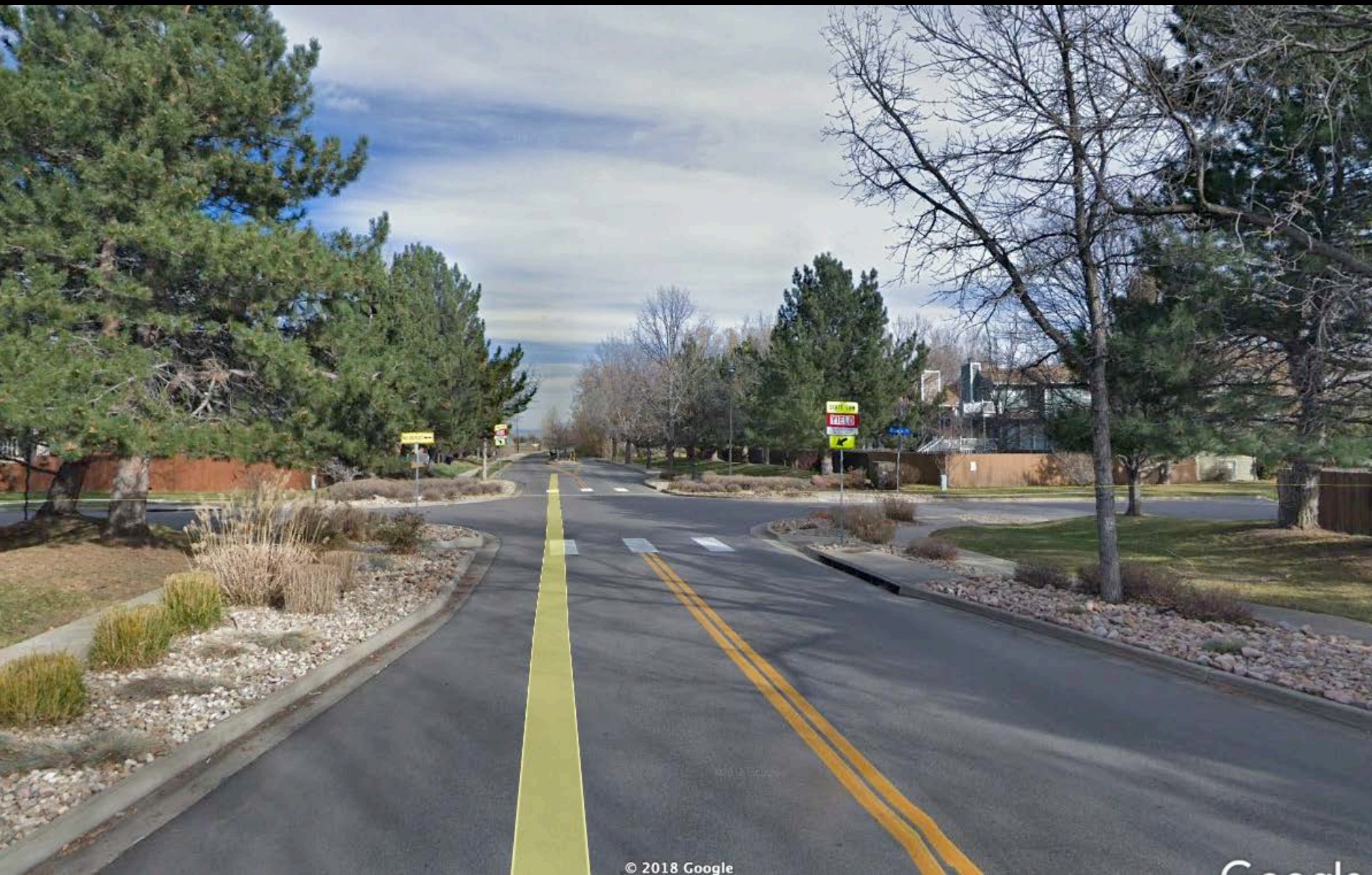
Speed Feedback Signs

Speed Limit Changes

Intersection Bulbouts



Intersection Bulbouts



All-Way Stop Control

Midblock Crossings

Midblock Crossings

Pros

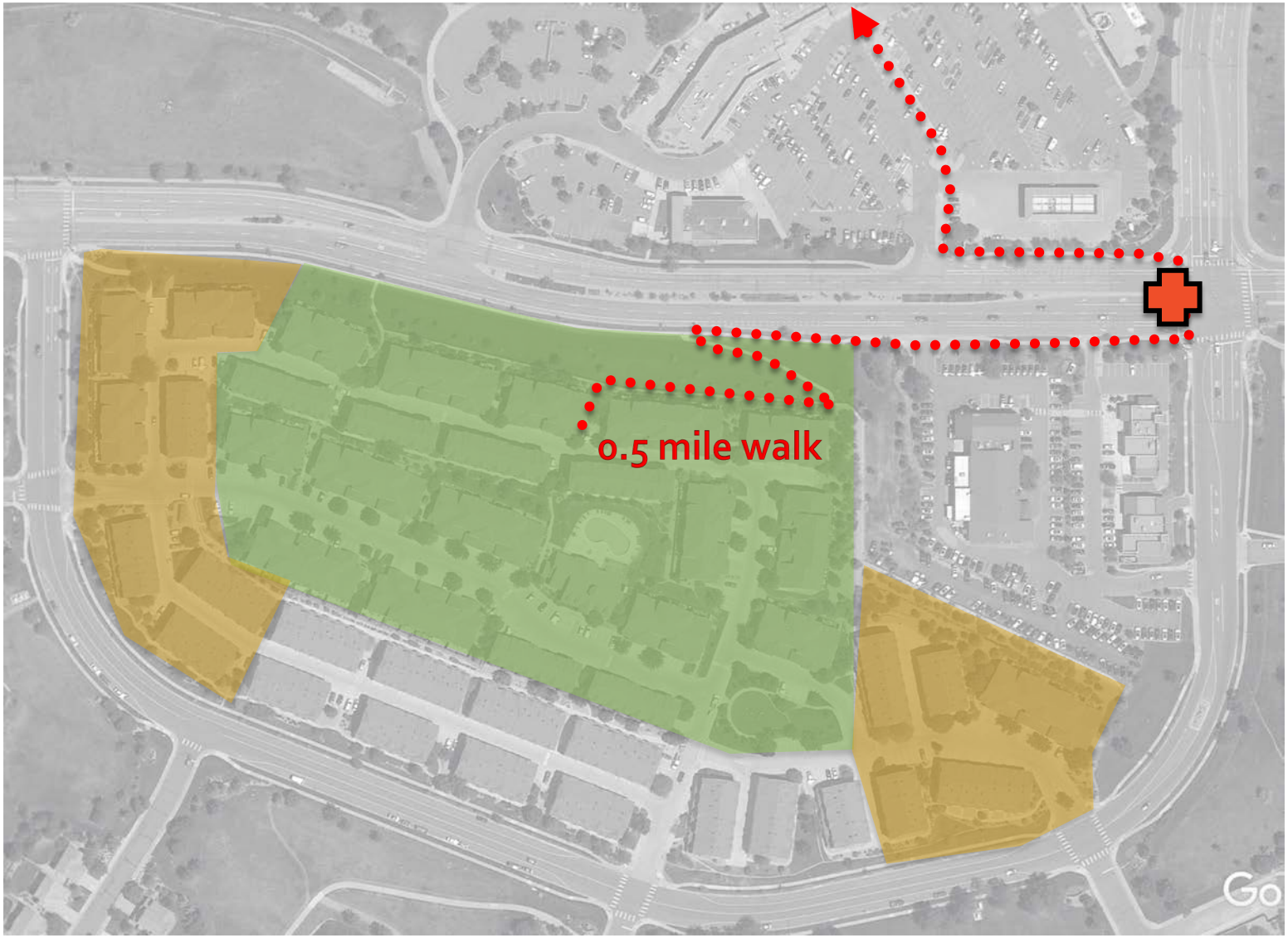
- No turn movement conflicts
- No delay for signal timing
- Shortens crossing distances
- +75% yield compliance

Cons

- Introduces bypass crash potential
- Reduces vehicle travel time
- 20% or less will not active signal

Summit Walk Analysis Example

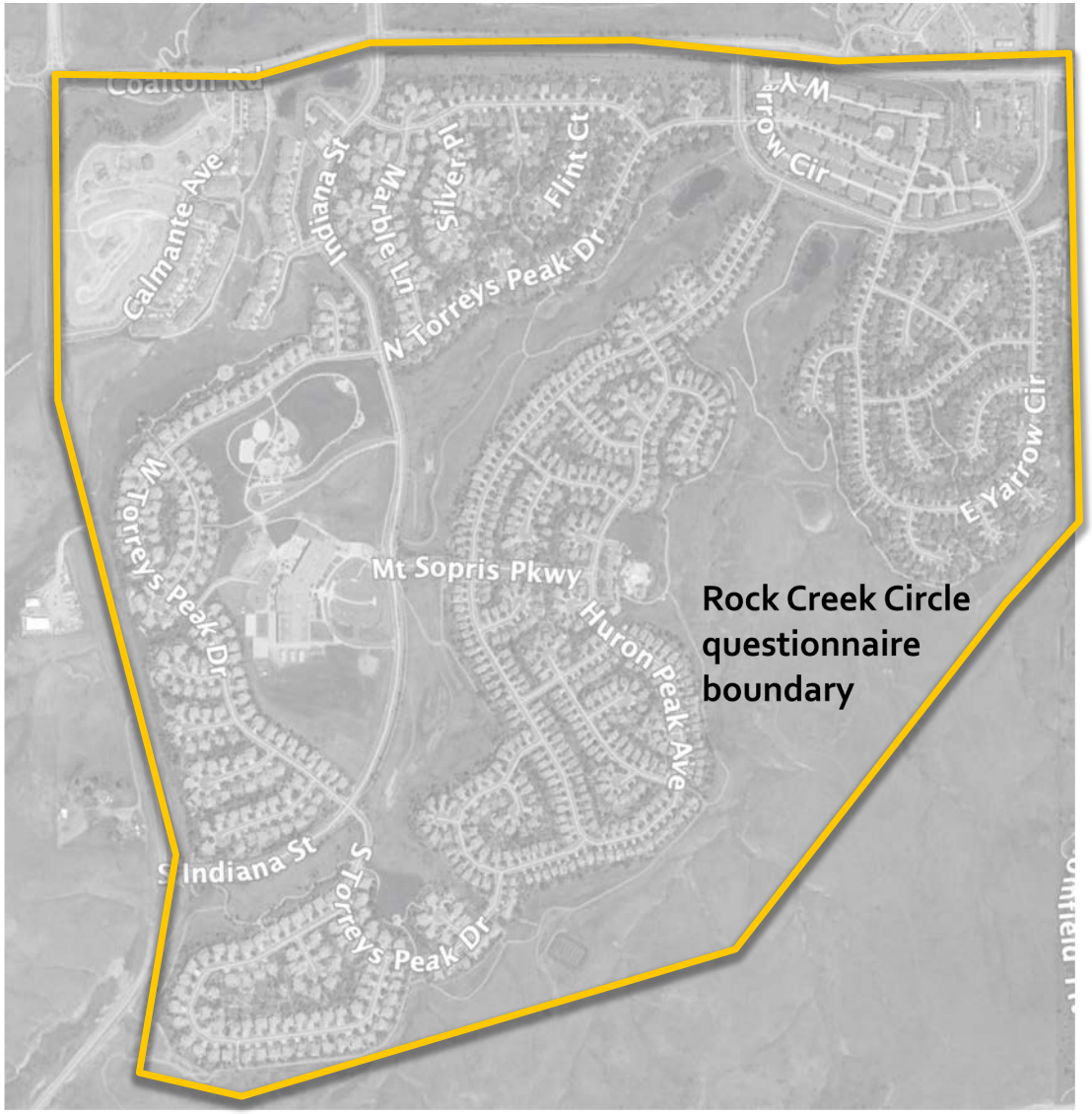
Summit Walk Analysis Example



Summit Walk Analysis Example

5. Toolbox Questionnaire

6. Next Steps

Next Steps

- Mail-out questionnaire to Summit residences in July regarding mid-block crossing. Findings presented at the August TSC meeting.
- Feedback from this evening on Rock Creek Circle will be reported to TSC at the August meeting.
- Mail-out questionnaire to Rock Creek Circle neighborhood in September 2019. Findings at the October TCS meeting