

City of Capitola Engineering and Traffic Study 2020



Data collected January 2020

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1.0 CERTIFICATION

I, Steven E. Jesberg, Public Works Director and City Engineer for the City of Capitola do hereby certify that this Engineering and Traffic Survey for the City of Capitola was performed under my supervision. I certify that I am experienced in performing a survey of this type and I am duly registered in the State of California as a Professional Civil Engineer.



Steven E. Jesberg
Public Works Director
RCE: 44791

3-4-21
Date



2.0 INTRODUCTION

The California State Legislature sets in place the regulations for California speed limits, and the California Vehicle Code (CVC) places these regulations into the language used primarily for enforcement purposes. Various jurisdictions have responsibility for roadways throughout California, including the responsibility to set speed limits on these roadways according to the standards and procedures established by Caltrans. The guidelines from the *2014 California Manual for Setting Speed Limits published by Caltrans* (May 9, 2014) are used in this study. These guidelines help in establishing speed limits that are uniform throughout the state and avoid influence from political pressure or emotional perceptions.

The purpose of this survey is to evaluate the posted speed limits for 47 segments of roadway/streets within the City of Capitola and recommend speed limits following the State of California regulations and guidelines. CVC Section 40802 requires that Engineering and Traffic Survey (E&TS) for speed limits should be conducted at least once every 5 years (40802(a)), 7 years (40802(c)), or 10 years (40802(c)) based on established criteria. State and local agencies are required to re-evaluate non-statutory speed limits on their street segments that have undergone a significant change in roadway characteristics or surrounding land uses since the speed limits were last reviewed.

Speed limits are established primarily for protecting the public from the behavior of reckless, unreliable, or dangerous drivers. Speed limits are generally established at or near the 85th percentile speed. The 85th percentile speed also referred to as the critical speed, is defined as the speed at or below which 85 percent of traffic is moving in free-flow conditions. Speed limits established on this basis conform to the consensus of those who drive on the roadways as to what speed is reasonable and safe under normal driving conditions. Many factors influence drivers and their perception of the safe speed at which to operate a vehicle. These factors should be considered as a whole because it is not practical to consider each individually. The design and physical characteristics of the roadway place limitations on the safe operating speed of vehicles. These characteristics include:

- Roadway geometrics, shoulder condition, grade, alignment, and sight distance
- Roadside development, zoning, and environment
- Parking practices, bicycle, and pedestrian activity
- Driveway density
- Signalized or stop-controlled intersections
- Rural, residential, or developed areas

This E&TS report presents the results based on data that was collected in January 2020 for 47 discrete street segments throughout the City of Capitola and includes radar speed surveys, accident summary, and analysis of roadway characteristics. The 47 survey segments included in the study are classified as below:

- Thirty-four (33) roadway segments are designated as 'Arterial.'

- Fifteen (12) roadway segments are designated as 'Collector.'
- Two (2) roadway segments are designated as 'Local.'

2.1 RELEVANT CALIFORNIA VEHICLE CODE SECTIONS

Applicable California Vehicle Code (CVC) Code sections for conducting an E&TS are summarized below:

CVC SECTION 235 – BUSINESS DISTRICT: An area in which at least 50 percent of the properties are used for business for a minimum distance of 400 feet on one side or 300 feet on both sides of a highway.

CVC SECTION 515 – RESIDENCE DISTRICT: An area outside of the Business District along a highway that has a minimum of 13 separate dwelling units on one side, or 16 on both sides within a distance of a quarter-mile.

CVC SECTION 627 – ENGINEERING AND TRAFFIC SURVEY: A survey of highway and traffic conditions in accordance with methods determined by the California Department of Transportation (Caltrans) for use by state and local authorities, which shall include consideration of prevailing speeds as determined by traffic engineering measurements, accident records, and highway, traffic, and roadside conditions not readily apparent to the driver. Local authorities may also consider residential district density (as defined in Section 515) and pedestrian and bicyclist safety.

CVC SECTION 21400 – ROUNDING OF SPEED LIMITS: Allows for setting the speed limit at the 5-mph increment below the 85th percentile even if mathematical rounding would require the speed to be posted above the 85th percentile. If this option is used, then the additional 5 mph reduction cannot be used. In effect, this law allows an engineer to round down to the nearest increment of the 85th instead of up. The engineer cannot then take a further reduction.

CVC SECTION 22350 – BASIC SPEED LAW: Provides that no person shall drive a vehicle upon a highway at a speed greater than is reasonable or prudent having due regard for weather, visibility, the traffic on, and the surface and width of, the highway, and in no event at a speed which endangers the safety of persons or property. In other words, a driver violates the basic speed law if he or she is driving at unsafe speeds, even if that speed is lower than the posted regulatory speed limit sign.

CVC SECTION 22351 – SPEED LAW VIOLATIONS: States that the speed of any vehicle upon a highway not in excess of the limits specified in CVC Section 22352 or established as authorized in the CVC is lawful unless clearly proved to be in violation of the Basic Speed Law. This same section also states that the speed of any vehicle upon a highway in excess of the prima facie speed limits in CVC Section 22352 or established as authorized in the CVC is unlawful unless the defendant establishes by competent evidence that the speed in excess of said limits did not constitute a violation of the Basic Speed Law at the time, place and under the conditions then existing.

CVC SECTION 22352 – PRIMA FACIE SPEED LIMITS: Establishes prima facie speed limits for local roads and streets. The term "prima facie," as used in the CVC, is a speed limit that applies when no other specific Engineering & Traffic Surveys (E&TS) speed limit is posted. It is a Latin term meaning "at first face" or "at first appearance." It is also defined as "first view" and "before investigation." Prima facie evidence is evidence sufficient to establish fact or to raise presumption of fact, unless rebutted. These speed limits shall be applicable unless changed as authorized in the CVC and, if so changed, only when signs have been erected giving notice thereof. It sets two-speed limits covering six classes of location.

A speed limit of 15 MPH applies at railroad crossings, at uncontrolled highway intersections with obstructed view, and on alleys. A speed limit of 25 MPH applies on any highway other than State highways in any business or residence district, unless a different limit is established by procedures described in the CVC. The 25 MPH limit also applies in school zones.

CVC SECTION 22357 (INCREASE OF LOCAL SPEED LIMITS TO 65 MPH) AND CVC SECTION 22358 (DECREASE OF LOCAL SPEED LIMITS): Authorizes local authorities to establish prima facie speed limits on streets and roads under their jurisdiction, on the basis of an engineering and traffic survey.

CVC SECTION 22358.3 (DECREASE ON NARROW STREETS) AND CVC SECTION 22358.4 (DECREASE OF LOCAL LIMITS NEAR SCHOOLS OR SENIOR CENTERS): Authorizes local agencies to reduce prima facie speed limits to 20 or 15 mph on narrow streets (with roadway width less than 25 feet), school zones, or senior centers on the basis of engineering and traffic surveys.

CVC SECTION 22358.5 – DOWNWARD SPEED ZONING: Physical conditions such as width, curvature, grade, and surface conditions, or any other condition readily apparent to a driver, in the absence of other factors, would not require special downward speed zoning.

CVC SECTION 40802 (A)(2) – PRIMA FACIE SPEED LIMITS: Provides that prima facie speed limits established under CVC Sections 22352(b)(1), 22354, 22357, 22358, and 22358.3 may not be enforced by radar unless the speed limit has been justified by an engineering and traffic survey within the last five years. This CVC section does not apply to a local street, road or school zone.

CVC SECTION 40802 (B) – PRIMA FACIE SPEED LIMITS: For purposes of this section, a local street or road is one that is functionally classified as "local" on the "California Road System Maps," that are approved by the Federal Highway Administration and maintained by the Department of Transportation. When a street or road does not appear on the "California Road System Maps," it may be defined as a "local street or road" if it primarily provides access to abutting residential property and meets the following three conditions:

- Roadway width of not more than 40 feet.
- Not more than one-half of a mile of uninterrupted length. Interruptions shall include official traffic control signals as defined in CVC Section 445.
- Not more than one traffic lane in each direction.

3.0 DATA COLLECTION & ANALYSIS GUIDELINES

The basic purpose of this study was to evaluate selected arterial, collector, and local streets within the City of Capitola limits and to recommend appropriate speed limit revisions consistent with current laws and practices of California. The Capitola Department of Public Works lead the study effort. Data collection was completed by NDS who has 30 years of traffic data collection experience. The data collection procedure and speed survey analysis methodology are briefly discussed below:

3.1 RADAR SPEED SURVEYS & ANALYSIS

The speed surveys involve the use of radar guns to collect sample speeds on selected street segments. A key aspect for conducting the surveys is to ensure that street segments with unique characteristics are individually surveyed. The most crucial component of a speed zone survey is the selection of locations for the data collection task. The prevailing speed at the data collection point was selected to represent the entire speed zone area.

The project team worked with the City of Capitola staff and finalized the street segments to be analyzed in this E&TS. Radar speed surveys were conducted in January on days with fair weather, clear visibility, and dry pavement conditions. The survey locations were selected where the prevailing speeds were representative of the entire street segment and not too close to any traffic control device. The selected locations were situated beyond the influence of stops, dips, curves, parked vehicles, and any other condition that may affect the normal rate of travel. An effort was made to ensure that the presence of radar survey equipment did not affect the speed of the traffic being surveyed. The radar speed surveys for each roadway segment was conducted using calibrated radar equipment by certified technicians. Most sample sizes for a particular segment included 100-200 vehicles. In the case of low volume roadways, surveys were conducted for a minimum of a 90-minute period. A Speed Survey Form was used to collect and summarize the following attributes:

- Street surveyed
- Precise location
- Street direction

- Date/day of the survey
- Start time & end time of the survey
- Number of vehicles surveyed
- 85th percentile speed, 50th percentile speed, 10-mile pace
- Percent and number of vehicles observed within the 10-mph pace speed
- Percent and number of vehicles observed below the pace
- Percent and number of vehicles observed above the pace
- Range of speeds observed and standard deviation

A description of some of the attributes is provided below:

50TH PERCENTILE SPEED (MEDIAN SPEED): This is the speed at which 50 percent of the vehicles sampled are traveling at or below.

85TH PERCENTILE SPEED (CRITICAL SPEED): The 85th percentile speed is defined as "The speed at or below which 85 percent of all vehicles are observed to travel under free-flowing conditions past a monitored point."

10 MPH PACE SPEED: The 10-mph increment (range) of speeds containing the greatest number of vehicles. In most cases, the 85th percentile speed and the recommended speed lie within the range, frequently in the middle to upper range of the interval. The percent of vehicles that fall within the pace speed is an indicator of the bunching of vehicular speeds. The number of observed vehicles within the 10-mph pace is often between 40 and 80 percent of the entire sample.

AVERAGE SPEED: The average speed is simply the cumulative speed divided by the number of observed vehicles.

SPEED RANGE: The range of speed is simply the speed of the fastest and slowest vehicles observed. A large range of speeds (in excess of 30 mph, for example) indicates less favorable conditions than a smaller range. The greater the range, the more inconsistency in travel speeds with a greater likelihood of traffic collisions. In general, uniform speeds result in the smooth progression of traffic.

The radar speed survey data was compiled and analyzed to determine the 50th percentile speed, 85th percentile speed, average speed, speed range, 10-mph pace speed, and the percent of vehicles observed within the 10-mph pace.

3.2 FIELD OBSERVATIONS

A final field check was conducted by driving each study segment while to determine the speed of traffic that is reasonable from the engineer's viewpoint. The appropriateness of the 85th percentile speed was evaluated in conjunction with the perspective of human judgment to set the appropriate speed limit. Factors such as roadside development, the number, and location of driveways, parked vehicles; emergency shoulder areas, schools and playgrounds, areas frequented by pedestrians, horizontal and vertical

alignment of the roadway, intersection spacing, visibility and control, landscaping, street fixtures, and other less tangible factors, all contribute to finalizing the recommended speed limits.

3.3 TRAFFIC COLLISION DATA

Collisions reported at study roadway segments were obtained from the City of Capitola Police Department for a period of three years from January 2017 to December 2019. Appendix A summarizes the type and the total number of collisions for all study segments. The summary table includes the total collisions within each street study segment. Both total and non-intersection collisions are summarized in this table.

4.0 SPEED LIMIT GUIDANCE

4.1 Allowable Speed Limit Modifications

The setting of speed limits requires a rational and defensible procedure to maintain the confidence of the public and legal systems. Speed limit determinations rely on the premise that a reasonable speed limit is one that conforms to the actual behavior of the majority of drivers; one will be able to select a speed limit that is both reasonable and effective by measuring drivers' speeds.

In 2004, in order to better conform to the standards established in the Federal Highway Administration's *Manual on Uniform Traffic Control Devices (MUTCD)*, the speed zoning section of the California MUTCD was changed to require rounding the 85th percentile to the nearest 5 mph increment rather than the lower 5 mph increment. This specific guideline revision resulted in raising certain street speed limits and had become a challenge to state and local jurisdictions.

In 2007, the California Traffic Control Devices Committee (CTCDC) ruled to approve a language change in the CA MUTCD to clarify how local speed limits should be set. Caltrans ultimately issued a *Traffic Operations Policy Directive (No. 09-04)*, effective July 1, 2009, which clearly defined these changes and incorporated new requirements into the CA MUTCD. The changes are summarized below:

- Posted speed limits will be set "rounded to the nearest" 5 mph increment of the 85th percentile speed.
- Jurisdictions can lower this speed by an additional 5 mph based on and justified by conditions and factors cited in the California Vehicle Code.
- Studies of the effects of establishing, raising, and lowering speed limits include Federal studies FHWA-RD-92-084 and FHWA-RD-98-154. These studies demonstrate that the most effective attribute in establishing the speed limit is to determine the 85th percentile speed and set the posted speed close to that value.

The empirical data in these studies demonstrate that setting the speed limit too high or too low can increase collisions. Speed limits that are set near the 85th percentile speed of free-flowing traffic are safer and produce less variance in vehicle speeds. Because of

this, the 85th percentile is used to establish the upper limit of operating speeds that are considered reasonable and prudent. In addition, setting the speed limit arbitrarily low often makes violators of a disproportionate number of drivers, does not facilitate the orderly movement of traffic, and requires constant enforcement to maintain compliance.

The 2014 Edition of the CA MUTCD requires as a standard that a speed limit shall be established at the nearest 5 mph increment of the 85th percentile speed, except that the posted speed may be reduced by 5 mph from the nearest 5 mph increment of the 85th percentile speed in compliance with CVC Sections 627 and CVC 22358.5. According to CVC 21400, for cases in which the nearest 5 mph increment of the 85th percentile speed would require rounding up, the speed limit may be rounded down to the nearest 5 mph increment below the 85th percentile speed if no further reduction is used. The following examples are provided to explain the application of these speed limit criteria:

- If the 85th percentile speed in a speed survey for a location were 37 mph, then the speed limit would be established at 35 mph since it is the closest five mph increment to the 37 mph speed. The 35 mph established speed limit can be reduced by 5 mph to 30 mph if the conditions and justification for using this lower speed limit are documented in the E&TS and approved by a registered Civil or Traffic Engineer.
- If the 85th percentile speed in a speed survey for a location were 33 mph, then the speed limit would be established at 35 mph since it is the closest 5 mph increment to the 33 mph speed. The 35 mph established speed limit can be reduced by 5 mph to 30 mph if the conditions and Engineering & Traffic Surveys (E&TS) justification for using this lower speed limit are documented in the E&TS and approved by a registered Civil or Traffic Engineer.

Section 2B.13 of the 2014 CA MUTCD further states that justification for reducing speed limits can be based on residential density, pedestrian/bicyclist safety, and other factors not readily apparent to drivers but essential to meet the traffic safety needs of the community. The following factors may be considered to adjust and determine the final speed limits:

- Road characteristics, shoulder condition, grade, alignment, and sight distance
- 10 mph pace speed (a 10-mile range in which the highest number of data is recorded)
- Roadside development and environment
- Parking practices and bicycle/pedestrian activity
- Reported crash experience for at least 12 months

The guidelines from the *2014 California Manual for Setting Speed Limits (May 9, 2014; updated March 9, 2018)* published by Caltrans were followed in this study. The speed limit recommendations are proposed for the 47 roadway/street segments in the study based on the above-discussed guidelines and speed data analysis. The speed limit for each study segment was recommended after determining the average speed, 85th percentile speed, pace speed, and considering other significant factors such as existing land use, roadway design characteristics, and accident rates.

5.0-Street Lists

City of Capitola

List of Street Studied in this Survey

No	Street	Recommended Speed (mph)	Number of Sections
1	38th Avenue	25	2
2	41st Avenue	30	5
3	47th Avenue	25	2
4	49th Avenue	25	1
5	Bay Avenue	25	4
6	Brommer Street	25	1
7	Capitola Avenue	25	6
8	Capitola Road	25	5
9	Clares Street	25	3
10	Cliff Drive	25	1
11	Jade Street	25	1
12	Kennedy Drive	25	2
13	Monterey Avenue	25	5
14	Park Avenue (Monterey Avenue to Coronado Avenue)	25	1
15	Park Avenue (Coronado Avenue to Highway 1)	30	2
16	Stockton Avenue	25	1
17	Topaz Street	25	2
18	Wharf Road	25	3
			47

City of Capitola

List of Local Roads

Speed governed by CVC 40802(B) - Prima Facie Speed Limits

No.	Street	Prima Facie Speed (mph)
1	40th Avenue	25
2	42nd Avenue	25
3	43rd Avenue	25
4	44th Avenue	25
5	45th Avenue	25
6	46th Avenue	25
7	47th Avenue (Capitola Road to Grace Street)	25
8	48th Avenue	25
9	49th Avenue (Capitola Road to Prospect Avenue)	25
10	Albert Lane	25
11	Alma Lane	25
12	Balboa Avenue	25
13	Beulah Drive	25
14	Beverley Avenue	25
15	Blue Gum Avenue	25
16	Burlingame Avenue	25
17	Cabrillo Street	25
18	California Avenue	25
19	Carl Lane	25
20	Center Street	25
21	Central Avenue	25
22	Cherry Avenue	25
23	Childers lane	25
24	Chittenden Lane	25
25	Cliff Way	25
26	Columbus Drive	25
27	Coronado Street	25
28	Cortez Street	25
29	Crystal Street	25
30	Deans Lane	25
31	Del Monte Avenue	25
32	Derby Avenue	25
33	Diamond Street	25
34	Edmund Lane	25
35	El Camino Medio	25
36	El Salto Drive	25
37	Elinor Street	25

City of Capitola

List of Local Roads

Speed governed by CVC 40802(B) - Prima Facie Speed Limits

No.	Street	Prima Facie Speed (mph)
38	Emerald Street	25
39	Escalona Avenue	25
40	Esplanade	25
41	Fairview Avenue	25
42	Fanmar Way	25
43	Francesco Circle	25
44	Garnet Street	25
45	Gilroy Drive	25
46	Grace Street	25
47	Grand Avenue	25
48	Gross Road Extension	25
49	Hill Street	25
50	Hollister Avenue	25
51	Jewel Street	25
52	Junipero Court	25
53	Kennedy Drive west of Monterey Avenue	25
54	Laurence Avenue	25
55	Lincoln Avenue	25
56	Loma Avenue	25
57	Magellan Street	25
58	McCormick Avenue	25
59	McCormick Court	25
60	Melton Street	25
61	Oak Street	25
62	Oakland Avenue	25
63	Opal Street	25
64	Orchid Avenue	25
65	Park Place	25
66	Pilgrim Drive	25
67	Pine Street	25
68	Plum Street	25
69	Preakness Avenue	25
70	Prospect Avenue	25
71	Reposa Avenue	25
72	Riverview Avenue	25
73	Riverview Drive	25
74	Rosedale Avenue	25

City of Capitola

List of Local Roads

Speed governed by CVC 40802(B) - Prima Facie Speed Limits

No.	Street	Prima Facie Speed (mph)
75	Rosedale Court	25
76	Ruby Court	25
77	Sacramento Avenue	25
78	San Jose Avenue	25
79	Saxon Avenue	25
80	Sellar's Court	25
81	Shirley Lane	25
82	Sir Francis Avenue	25
83	Sir Francis Court	25
84	Sommerfeld Avenue	25
85	Sunset Drive	25
86	Terrace Way	25
87	Trotter Street	25
88	Virgil Lane	25
89	Washburn Avenue	25
90	Wesley Street	25
91	Younger Avenue	25



Street: 38th Ave
Limits: Between Brommer St & City Limit
Direction: NB & SB

Factors

A. Prevailing Speed Data

Location of Survey
 Date of Survey 999 38th Ave
 Posted Speed Limit (mph) 1-29-202025 mph
 # Speed Data Collected 135
 85th Percentile (mph) 33 mph
 25-34
 10 mph Pace 81%
 Percent in Pace

B. Traffic Factors

Width: 34-feet
 Length of Segment (mi.) 0.27
 Street Classification Other Principal Arterial

C. Collision History

Date Range Covered 1/1/2017-12/31/2019
 Total Accident 0

D. Roadway Conditions

Adjacent Land Use It is a primarily residential district with substantial mobile home complexes access from the street.

Roadway Geometrics Two-lane roadways. Sidewalks are present on the west side.

Comments After evaluating current critical and pace speeds, it is recommended that a 25-mph speed limit be maintained to be in concurrence with section 2B.13 of the MUTCD. The 25-mph speed limit was obtained by a 5-mph reduction of the critical speed of 35mph due to the number of access points, A second 5 mph deduction was added due to the presence of the railroad crossing and amount of pedestrian crossings and bicycle traffic.

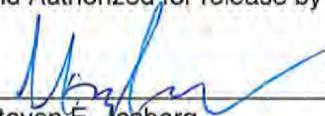
Speed Limit Change? No

Existing Speed Limit: 25 MPH

Recommended Speed Limit: 25 MPH

This survey conforms to section 627 and 40802 of the California Vehicle Code section 2B.13 of the California MUTCD and recommends a speed limit appropriate to facilitate the safe and orderly movement of traffic.

Approved and Authorized for release by the City of Capitola Public Works:

Signed:  Title: City Engineer
 Steven E. Jesberg

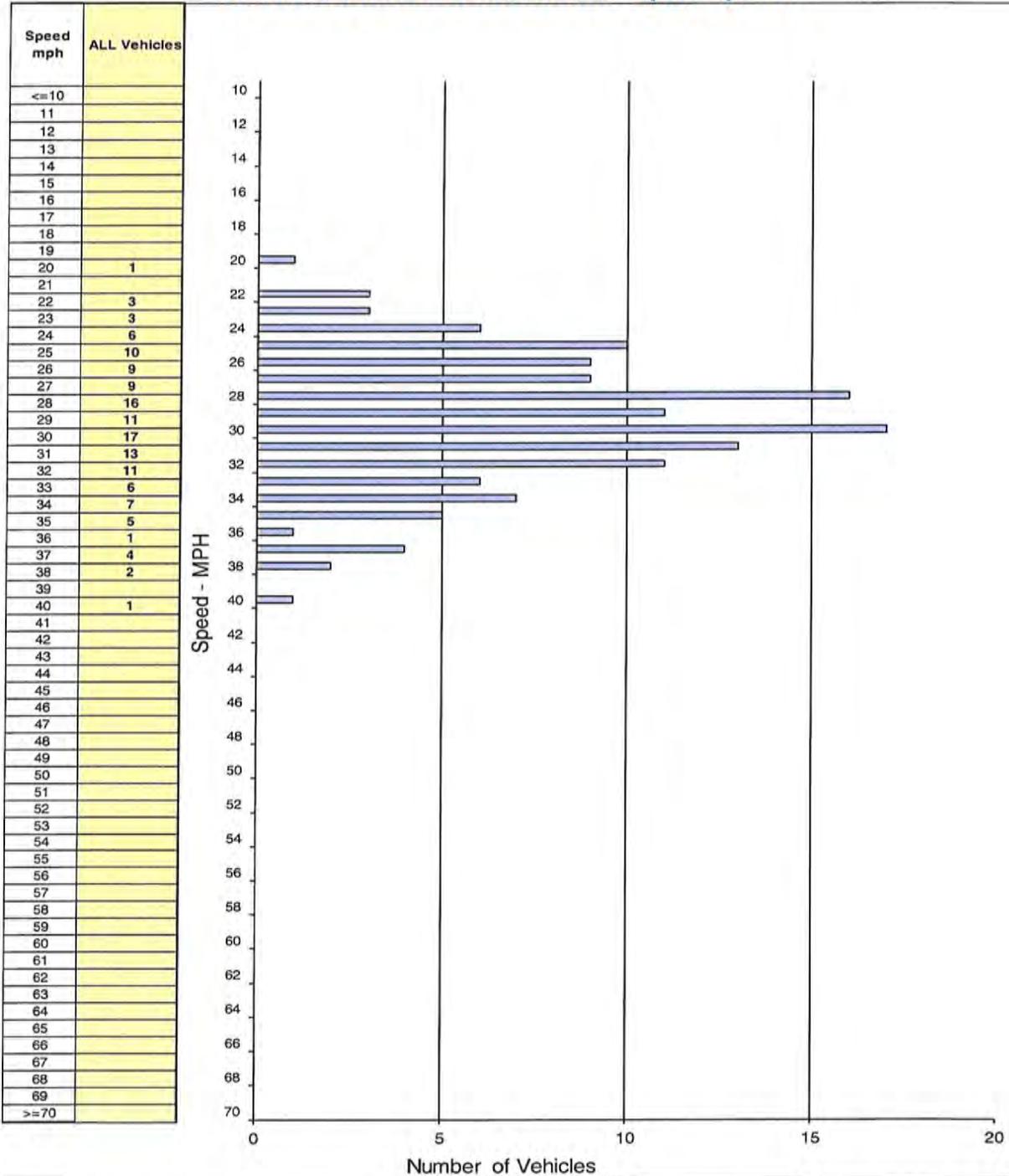
City of Capitola

DATE: 1/29/2020
 TIME: 11:00-12:00

Location: 999 38th Ave
 Posted Speed: 25 MPH Clear/Dry

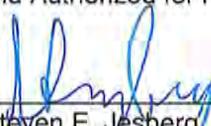
Project #: 20-8004-012

Northbound & Southbound Spot Speeds



SPEED PARAMETERS									
Class	Count	Range	50th Percentile	85th Percentile	10 MPH Pace	# in Pace	Percent In Pace	% / # Below Pace	% / # Above Pace
ALL	135	20 - 40	29 mph	33 mph	25 - 34	109	81%	9% / 13	10% / 13



Street:	38 th Ave
Limits:	Between Capitola Rd & Brommer St
Direction:	NB & SB
Factors	
A. <u>Prevailing Speed Data</u>	
Location of Survey	1465 38 th Ave
Date of Survey	1/29/2020
Posted Speed Limit (mph)	None
# Speed Data Collected	144
85 th Percentile (mph)	32 mph
10 mph Pace	25-34
Percent in Pace	88%
B. <u>Traffic Factors</u>	
Width:	38
Length of Segment (mi.)	0.22
Street Classification	Major Collector
C. <u>Collision History</u>	
Date Range Covered	1/1/2016-12/31/2019
Total Accidents	Four total collisions, one fatal injury
D. <u>Roadway Conditions</u>	
Adjacent Land Use	It is a primarily residential and business district with a substantial shopping center and apartment complexes in the area.
Roadway Geometrics	Two-lane roadways. Sidewalks are present on the east and west side of the roadway.
Comments	After evaluating current critical and pace speeds, it is recommended that a 25-mph speed limit be implemented to be in concurrence with section 2B.13 of the MUTCD. The 25-mph speed limit was obtained by a 5-mph reduction of the critical speed of 30 mph due to the number of access points, Residential district density (as defined in section 515), and pedestrian and bicyclist safety.
Speed Limit Change?	No
Existing Speed Limit: 25 MPH	Recommended Speed Limit: 25 MPH
This survey conforms to section 627 and 40802 of the California Vehicle Code section 2B.13 of the California MUTCD and recommends a speed limit appropriate to facilitate the safe and orderly movement of traffic.	
Approved and Authorized for release by the City of Capitola Public Works:	
Signed: 	Title: City Engineer
Steven E. Jesberg	

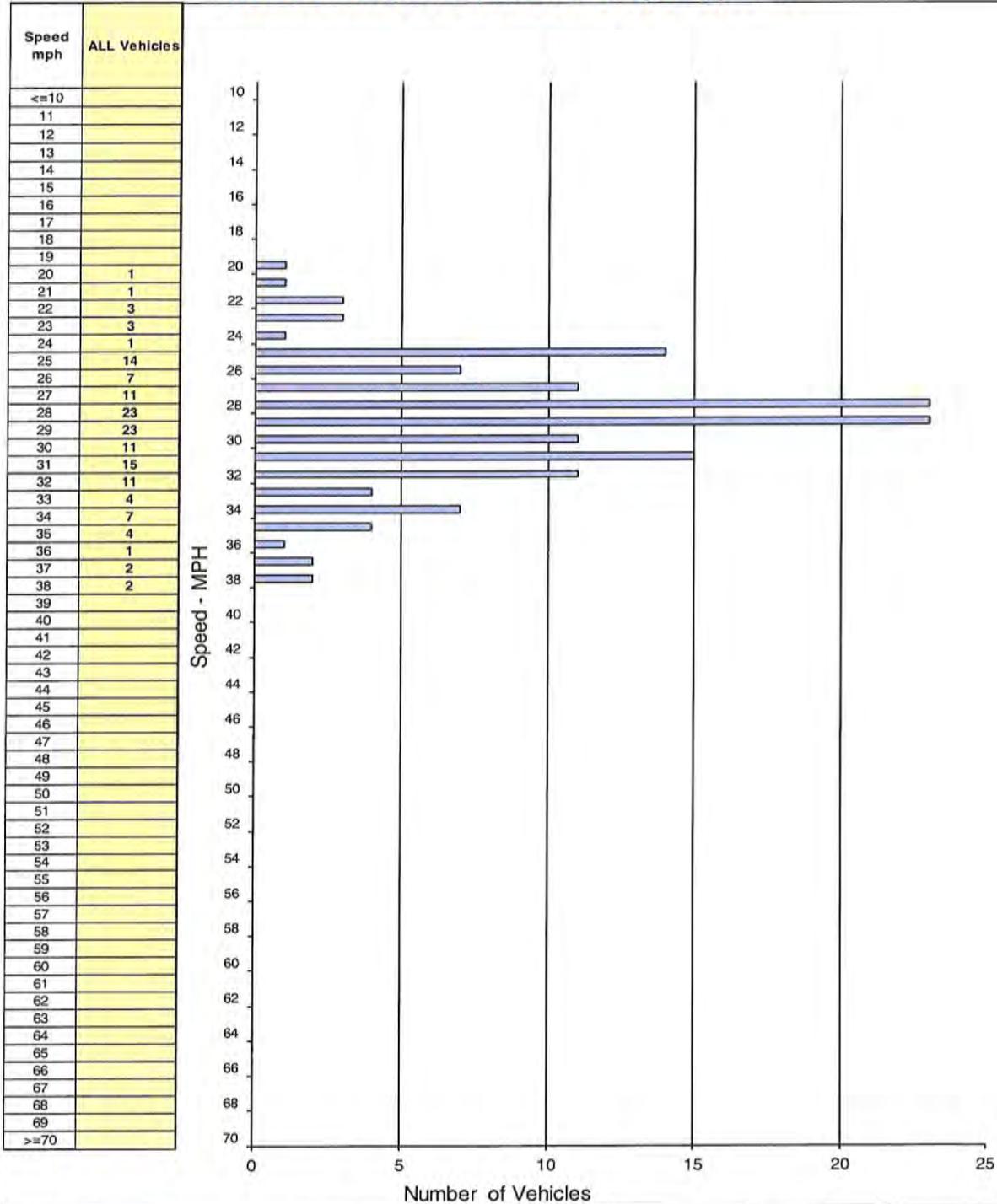
City of Capitola

DATE: 1/29/2020
 TIME: 09:30-10:30

Location: 1465 38th Ave
 Posted Speed: None Clear/Dry

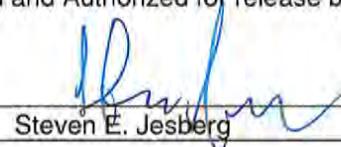
Project #: 20-8004-011

Northbound & Southbound Spot Speeds



SPEED PARAMETERS									
Class	Count	Range	50th Percentile	85th Percentile	10 MPH Pace	# In Pace	Percent In Pace	% / # Below Pace	% / # Above Pace
ALL	144	20 - 38	29 mph	32 mph	25 - 34	126	88%	6% / 9	7% / 9



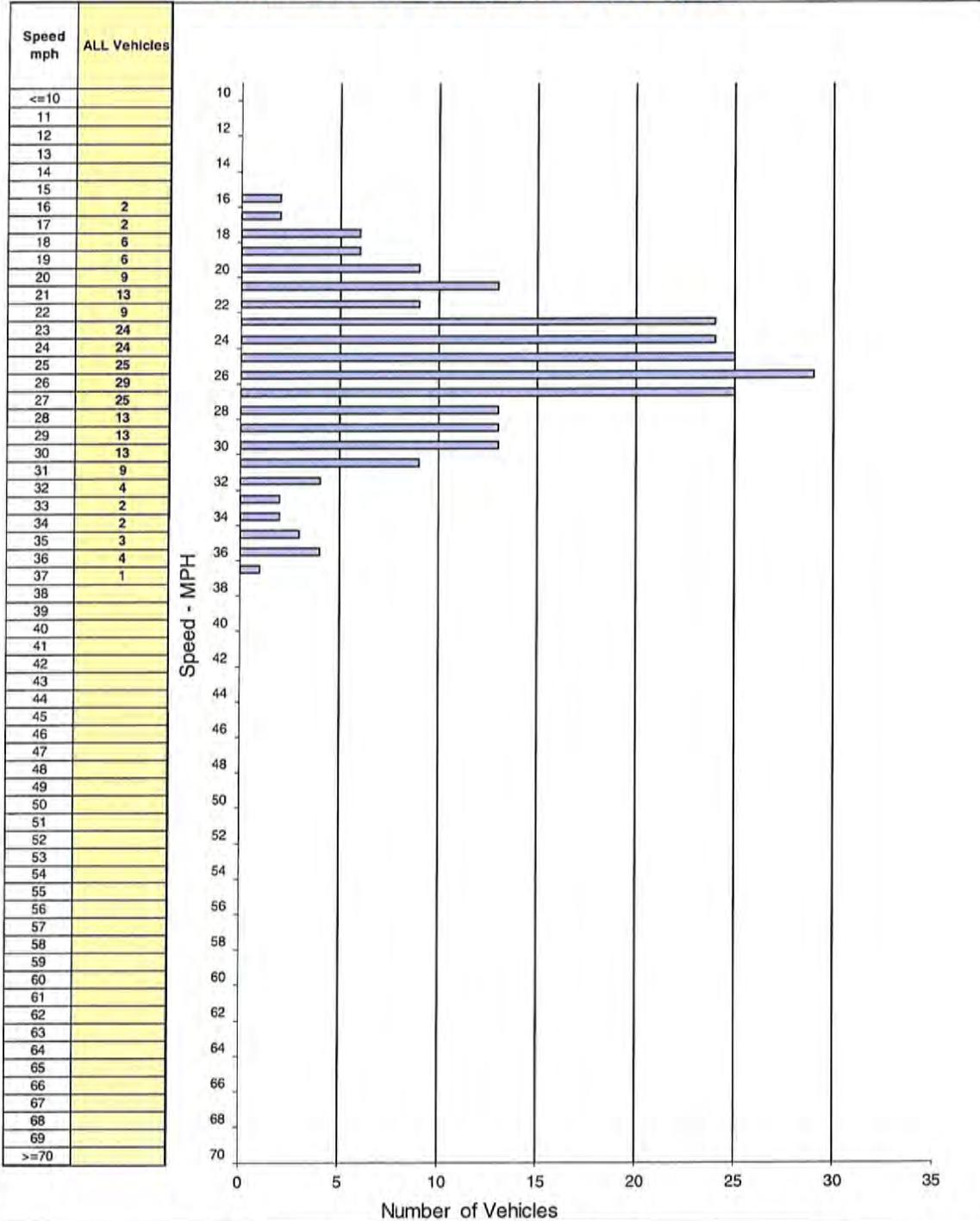
Street:	41 st Ave	
Limits:	Between Cory St & Gross Rd	
Direction:	NB & SB	
Factors		
A. <u>Prevailing Speed Data</u>		
Location of Survey	41 st Ave 500' N/O Gross Rd	
Date of Survey	1/7/2020	
Posted Speed Limit (mph)	None	
# Speed Data Collected	238	
85 th Percentile (mph)	30 mph	
10 mph Pace	21-30	
Percent in Pace	79%	
B. <u>Traffic Factors</u>		
Width	61'	
Length of Segment (mi.)	0.18	
Street Classification	Other Principal Arterial	
C. <u>Collision History</u>		
Date Range Covered	1/1/2017-12/31/2019	
Total Accidents	19 total collisions	
D. <u>Roadway Conditions</u>		
Adjacent Land Use	Adjacent land use is primarily a business district and State Highway 1.	
Roadway Geometrics	Five-lane divided roadway with bike lanes sidewalks are present on the east side and west side of the roadway. Signalized intersection has turn pockets and crosswalks.	
Comments	After evaluating current critical and pace speeds, it is recommended that a 30-mph speed limit be implemented to be in concurrence with section 2B.13 of the MUTCD.	
Speed Limit Change?	Yes	
Existing Speed Limit: 35 MPH		Recommended Speed Limit: 30 MPH
<p>This survey conforms to section 627 and 40802 of the California Vehicle Code section 2B.13 of the California MUTCD and recommends a speed limit appropriate to facilitate the safe and orderly movement of traffic.</p> <p>Approved and Authorized for release by the City of Capitola Public Works:</p>		
Signed:	 Steven E. Jesberg	Title: City Engineer

City of Capitola

DATE: 1/7/2020
 TIME: 09:00-10:05

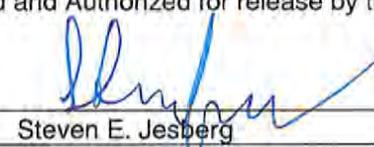
Location: 41st Ave 500' N/O Gross Rd
 Posted Speed: 35 MPH Clear/Dry Project #: 19-8004-020

Northbound & Southbound Spot Speeds



SPEED PARAMETERS									
Class	Count	Range	50th Percentile	85th Percentile	10 MPH Pace	# in Pace	Percent in Pace	% / # Below Pace	% / # Above Pace
ALL	238	16 - 37	25 mph	30 mph	21 - 30	188	79%	10% / 25	11% / 25



Street:	41 st Ave	
Limits:	Between Gross Rd & Claes St	
Direction:	NB & SB	
Factors		
A. <u>Prevailing Speed Data</u>		
Location of Survey	2160 41 st Ave	
Date of Survey	1/7/2020	
Posted Speed Limit (mph)	35 mph	
# Speed Data Collected	228	
85 th Percentile (mph)	31 mph	
10 mph Pace	24-33	
Percent in Pace	69%	
B. <u>Traffic Factors</u>		
Width	43' NB and 46' SB	
Length of Segment (mi.)	0.20	
Street Classification	Other Principal Arterial	
C. <u>Collision History</u>		
Date Range Covered	1/1/2017-12/31/2019	
Total Accidents	29 total collisions, one injury	
D. <u>Roadway Conditions</u>		
Adjacent Land Use	Adjacent land use is primarily a business district.	
Roadway Geometrics	Six-lane divided roadway with raised Medians, and bike lanes sidewalks are present on the east side and west side of the roadway. Signalized intersection has turn pockets and crosswalks.	
Comments	After evaluating current critical and pace speeds, it is recommended that a 30-mph speed limit be implemented to be in concurrence with section 2B.13 of the MUTCD.	
Speed Limit Change?	Yes	
Existing Speed Limit: 35MPH	Recommended Speed Limit: 30 MPH	
This Survey conforms to section 627 and 40802 of the California Vehicle Code section 2B.13 of the California MUTCD and recommends a speed limit appropriate to facilitate the safe and orderly movement of traffic.		
Approved and Authorized for release by the City of Capitola Public Works:		
Signed:		Title: City Engineer
	Steven E. Jesberg	

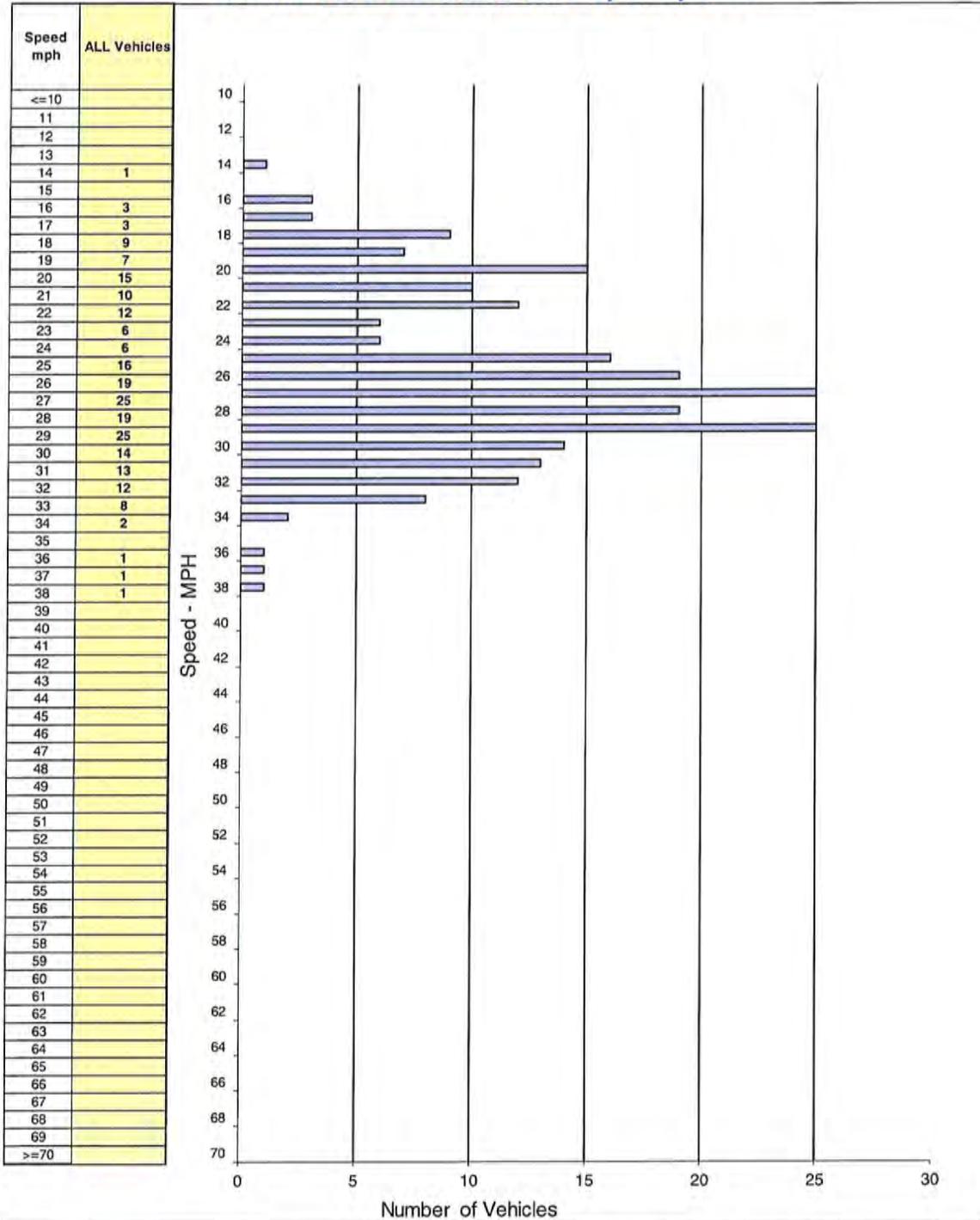
City of Capitola

DATE: 1/7/2020
 TIME: 10:20-11:20

Location: 2160 41st Ave
 Posted Speed: 35 MPH Clear/Dry

Project #: 19-8004-021

Northbound & Southbound Spot Speeds



SPEED PARAMETERS									
Class	Count	Range	50th Percentile	85th Percentile	10 MPH Pace	# in Pace	Percent in Pace	% / # Below Pace	% / # Above Pace
ALL	228	14 - 38	27 mph	31 mph	24 - 33	157	69%	28% / 66	3% / 5



Street: 41st Ave
Limits: Between Clares St & 41st Mall Entrance
Direction: NB & SB

Factors

A. Prevailing Speed Data

Location of Survey	1855 41 st Ave
Date of Survey	1/7/2020
Posted Speed Limit (mph)	35 mph
# Speed Data Collected	205
85 th Percentile (mph)	31 mph
10 mph Pace	22-31
Percent in Pace	67%

B. Traffic Factors

Width	37' NB and 36' SB
Length of Segment (mi.)	0.14
Street Classification	Other Principal Arterial

C. Collision History

Date Range Covered	1/1/2017-12/31/2019
Total Accidents	Five total collisions

D. Roadway Conditions

Adjacent Land Use	Adjacent land use is primarily a business district with Capitola Mall.
Roadway Geometrics	A six-lane divided roadway with raised Medians and bike lanes. Sidewalks are present on the east side and west side of the roadway. Signalized intersection has turn pockets and crosswalks.
Comments	After evaluating current critical and pace speeds, it is recommended that a 30-mph speed limit be implemented to be in concurrence with section 2B.13 of the MUTCD.

Speed Limit Change?	Yes
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Existing Speed Limit: 35 MPH

Recommended Speed Limit: 30 MPH

This Survey conforms to section 627 and 40802 of the California Vehicle Code section 2B.13 of the California MUTCD and recommends a speed limit appropriate to facilitate the safe and orderly movement of traffic.

Approved and Authorized for release by the City of Capitola Public Works:

Signed:  **Title:** City Engineer
 Steven E. Jesberg

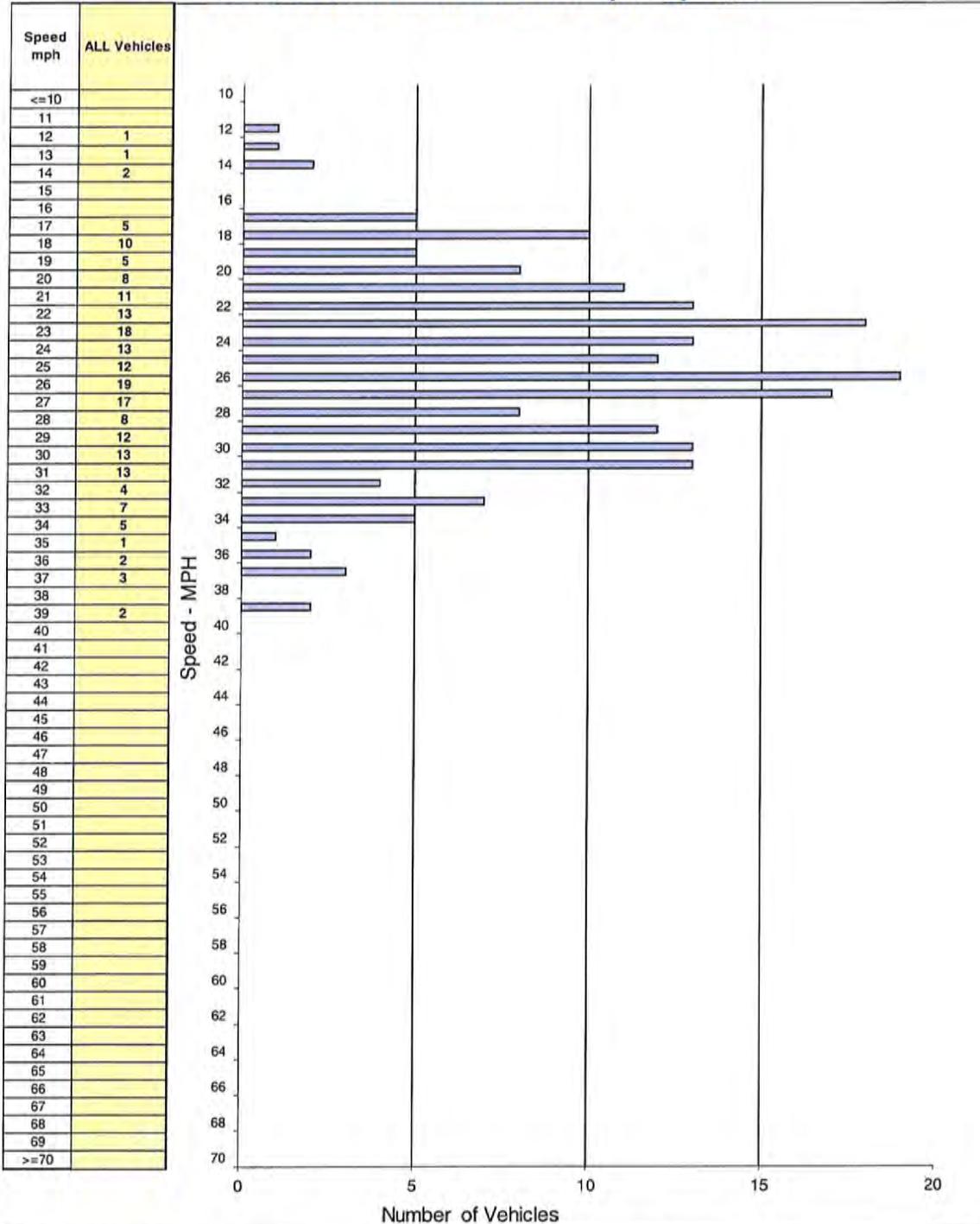
City of Capitola

DATE: 1/7/2020
TIME: 12:00-12:50

Location: 1855 41st Ave
Posted Speed: 35 MPH Clear/Dry

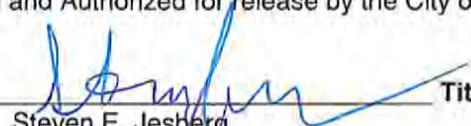
Project #: 19-8004-022

Northbound & Southbound Spot Speeds



SPEED PARAMETERS									
Class	Count	Range	50th Percentile	85th Percentile	10 MPH Pace	# In Pace	Percent In Pace	% / # Below Pace	% / # Above Pace
ALL	205	12 - 39	26 mph	31 mph	22 - 31	138	67%	20% / 43	12% / 24



Street:	41 st Ave	
Limits:	Between 41 st Ave Mall Entrance & Capitola Rd	
Direction:	NB & SB	
Factors		
A. <u>Prevailing Speed Data</u>		
Location of Survey	1805 41 st Ave	
Date of Survey	1/7/2020	
Posted Speed Limit (mph)	35 mph	
# Speed Data Collected	232	
85 th Percentile (mph)	31 mph	
10 mph Pace	22-31	
Percent in Pace	71%	
B. <u>Traffic Factors</u>		
Width	37' NB and 36' SB	
Length of Segment (mi.)	0.19	
Street Classification	Other Principal Arterial	
C. <u>Collision History</u>		
Date Range Covered	1/1/2016-12/31/2019	
Total Accidents	Five total collisions	
D. <u>Roadway Conditions</u>		
Adjacent Land Use	Adjacent land use is generally commercial with Capitola Mall.	
Roadway Geometrics	Six-to-five-lane divided roadway with raised Medians, and bike lanes sidewalks are present on the east side and west side of the roadway. Signalized intersection has turn pockets and crosswalks.	
Comments	After evaluating current critical and pace speeds, it is recommended that a 30-mph speed limit be implemented to be in concurrence with section 2B.13 of the MUTCD.	
Speed Limit Change?	Yes	
Existing Speed Limit: 35 MPH	Recommended Speed Limit: 30 MPH	
<p>This Survey conforms to section 627 and 40802 of the California Vehicle Code section 2B.13 of the California MUTCD and recommends a speed limit appropriate to facilitate the safe and orderly movement of traffic.</p> <p>Approved and Authorized for release by the City of Capitola Public Works:</p>		
Signed:		Title: City Engineer
	Steven E. Jesberg	

City of Capitola

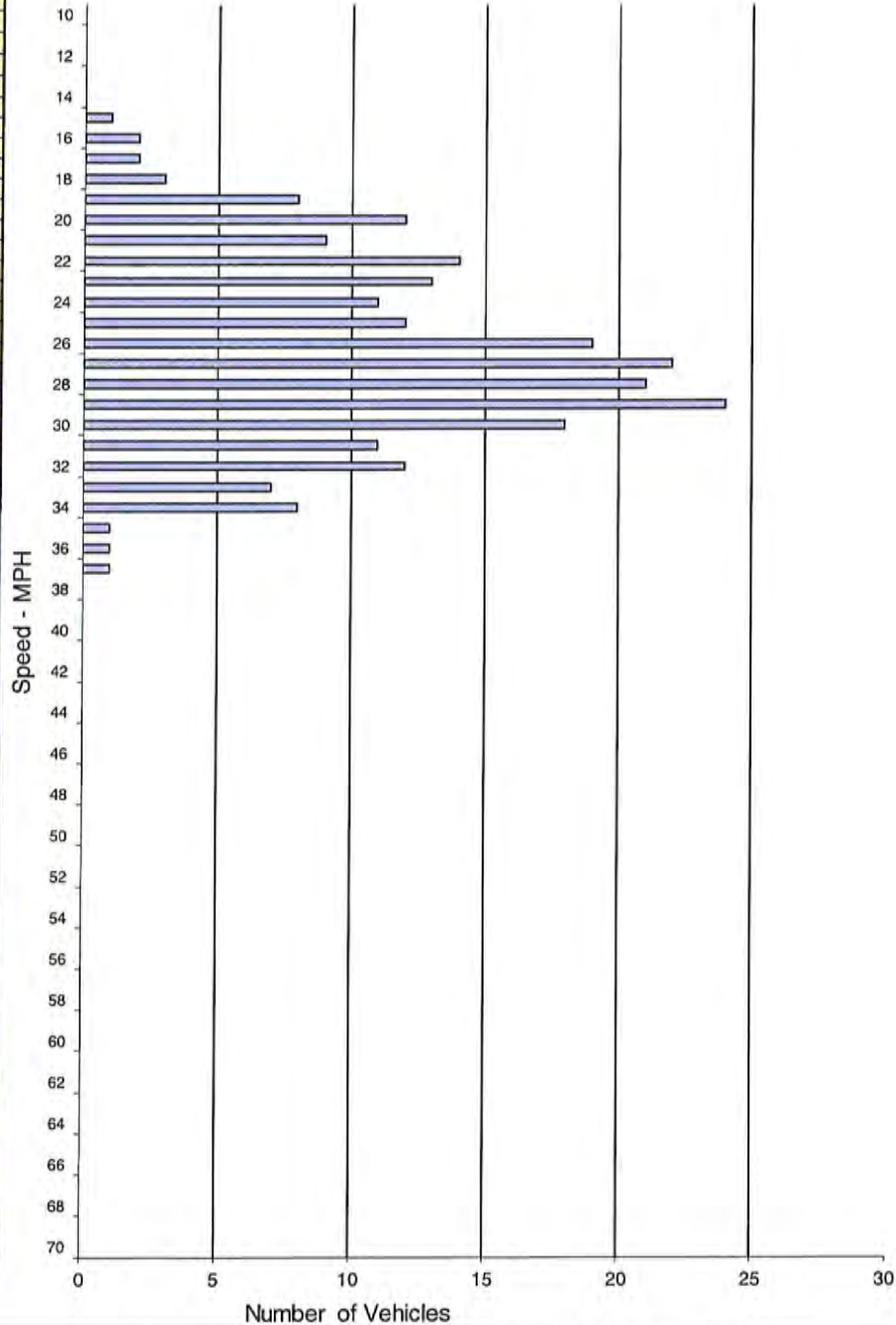
DATE: 1/7/2020
TIME: 13:10-14:10

Location: 1805 41st Ave
Posted Speed: 35 MPH Clear/Dry

Project #: 19-8004-023

Northbound & Southbound Spot Speeds

Speed mph	ALL Vehicles
<=10	
11	
12	
13	
14	
15	1
16	2
17	2
18	3
19	8
20	12
21	9
22	14
23	13
24	11
25	12
26	19
27	22
28	21
29	24
30	18
31	11
32	12
33	7
34	8
35	1
36	1
37	1
38	
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>=70	



SPEED PARAMETERS									
Class	Count	Range	50th Percentile	85th Percentile	10 MPH Pace	# In Pace	Percent in Pace	% / # Below Pace	% / # Above Pace
ALL	232	15 - 37	27 mph	31 mph	22 - 31	165	71%	15% / 37	13% / 30



Street: 41st Ave
Limits: Between Capitola Rd & Jade St/ Brommer St
Direction: NB & SB

Factors

A. Prevailing Speed Data

Location of Survey 1549 41st Ave
 Date of Survey 1/7/2020
 Posted Speed Limit (mph) 35 mph
 # Speed Data Collected 227
 85th Percentile (mph) 30 mph
 10 mph Pace 22-31
 Percent in Pace 73%

B. Traffic Factors

Width 35' NB 34' SB
 Length of Segment (mi.) 0.25
 Street Classification Other Principal Arterial

C. Collision History

Date Range Covered 1/1/2017-12/31/2019
 Total Accidents 11 total collisions, nine injury

D. Roadway Conditions

Adjacent Land Use Adjacent land use is primarily a business district, with a substantial hotel in the area.

Roadway Geometrics Five-to-four-lane divided roadway with raised Medians, and bike lanes sidewalks are present on the east side and west side of the roadway. Signalized intersection has turn pockets and crosswalks.

Comments After evaluating current critical and pace speeds, it is recommended that a 30-mph speed limit be implemented to be in concurrence with section 2B.13 of the MUTCD.

Speed Limit Change? Yes

Existing Speed Limit: 35 MPH **Recommended Speed Limit: 30 MPH**

This Survey conforms to section 627 and 40802 of the California Vehicle Code section 2B.13 of the California MUTCD and recommends a speed limit appropriate to facilitate the safe and orderly movement of traffic.

Approved and Authorized for release by the City of Capitola Public Works:

Signed:  **Title:** City Engineer
 Steven E. Jesberg

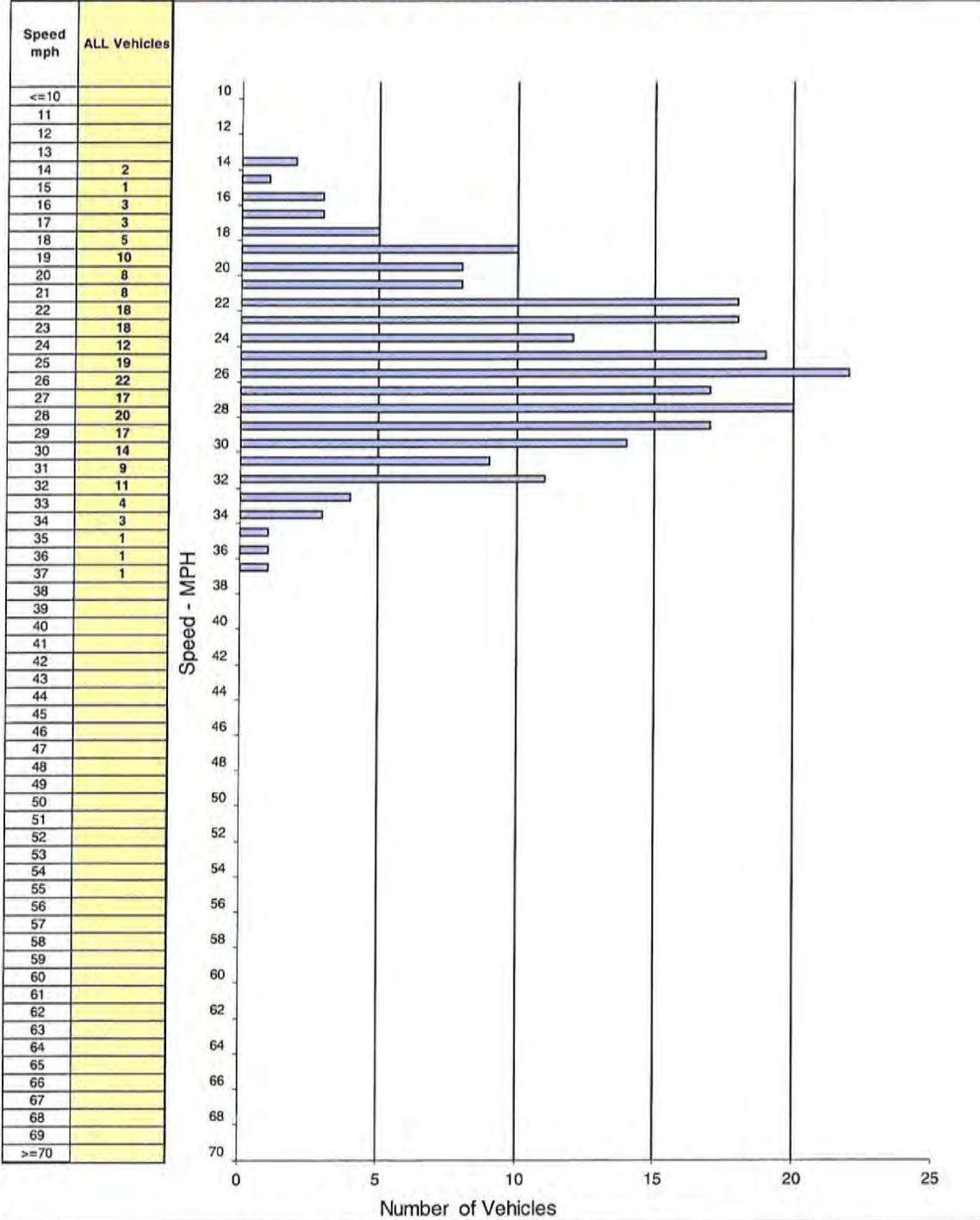
City of Capitola

DATE: 1/7/2020
 TIME: 14:15-15:00

Location: 1549 41st Ave
 Posted Speed: 35 MPH Clear/Dry

Project #: 19-8004-024

Northbound & Southbound Spot Speeds



SPEED PARAMETERS									
Class	Count	Range	50th Percentile	85th Percentile	10 MPH Pace	# in Pace	Percent In Pace	% / # Below Pace	% / # Above Pace
ALL	227	14 - 37	26 mph	30 mph	22 - 31	166	73%	17% / 40	10% / 21



Street: 47th Ave
Limits: Between Capitola Rd & Topaz St
Direction: NB & SB

Factors

A. Prevailing Speed Data

Location of Survey	1698 47 th Ave
Date of Survey	1/14/2020
Posted Speed Limit (mph)	25 mph
# Speed Data Collected	100
85 th Percentile (mph)	23 mph
10 mph Pace	15-24
Percent in Pace	89%

B. Traffic Factors

Width	30'
Length of Segment (mi.)	0.22
Street Classification	Major Collector

C. Collision History

Date Range Covered	1/1/2017-12/31/2019
Total Accidents	Zero

D. Roadway Conditions

Adjacent Land Use	It is a primarily residential district.
Roadway Geometrics	Two-lane roadways. Sidewalks are present on some parts of the east and west side of the roadway. Speed tables are present.
Comments	Results of the attached engineering & traffic survey information support maintaining the existing 25 mph speed limit.

Speed Limit Change? No

Existing Speed Limit: 25 MPH

Recommended Speed Limit: 25 MPH

This Survey conforms to section 627 and 40802 of the California Vehicle Code section 2B.13 of the California MUTCD and recommends a speed limit appropriate to facilitate the safe and orderly movement of traffic.

Approved and Authorized for release by the City of Capitola Public Works:

Signed:  Title: City Engineer
 Steven E. Jesberg

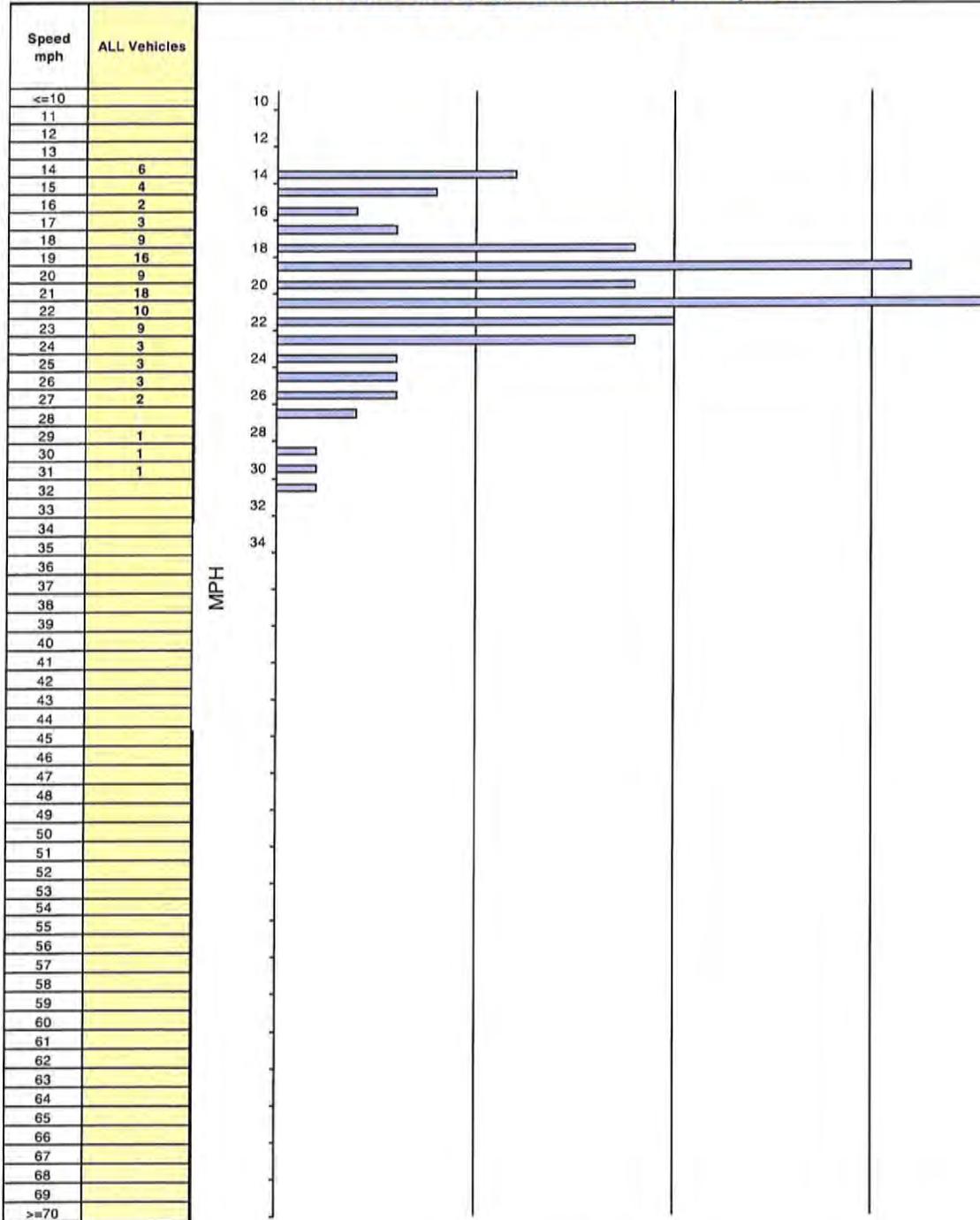
City of Capitola

DATE: 1/14/20
TIME: 09:00-10:25

Location: 1698 47th Ave
Posted Speed: 25 MPH Clear/Dry

Project #: 20-8004-018

Northbound & Southbound Spot Speeds



SPEED PARAMETERS									
Class	Count	Range	50th Percentile	85th Percentile	10 MPH Pace	# in Pace	Percent in Pace	% / # Below Pace	% / # Above Pace
ALL	100	14 - 31	21 mph	23 mph	15 - 24	69	89%	6% / 6	5% / 5



Street: 47th Ave
Limits: Between Topaz St & Portola Dr
Direction: NB & SB

Factors

A. Prevailing Speed Data

Location of Survey	16 47 th Ave
Date of Survey	1/14/2020
Posted Speed Limit (mph)	25 mph
# Speed Data Collected	108
85 th Percentile (mph)	22 mph
10 mph Pace	15-24
Percent in Pace	92%

B. Traffic Factors

Average Daily Traffic (ADT)	36
Length of Segment (mi.)	0.12
Street Classification	Major Collector

C. Collision History

Date Range Covered	1/1/2017-12/31/2019
Total Accidents	Zero

D. Roadway Conditions

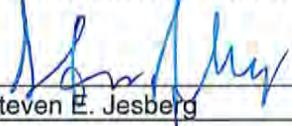
Adjacent Land Use	It is a primarily residential district with a substantial park in the area.
Roadway Geometrics	Two-lane roadways. Sidewalks are present on some parts of the east and west side of the roadway. Speed tables are present.
Comments	Results of the attached engineering & traffic survey information support maintaining the existing 25 mph speed limit.

Speed Limit Change? No

Existing Speed Limit: 25 MPH **Recommended Speed Limit: 25 MPH**

This Survey conforms to section 627 and 40802 of the California Vehicle Code section 2B.13 of the California MUTCD and recommends a speed limit appropriate to facilitate the safe and orderly movement of traffic.

Approved and Authorized for release by the City of Capitola Public Works:

Signed:  **Title:** City Engineer
 Steven E. Jesberg

City of Capitola

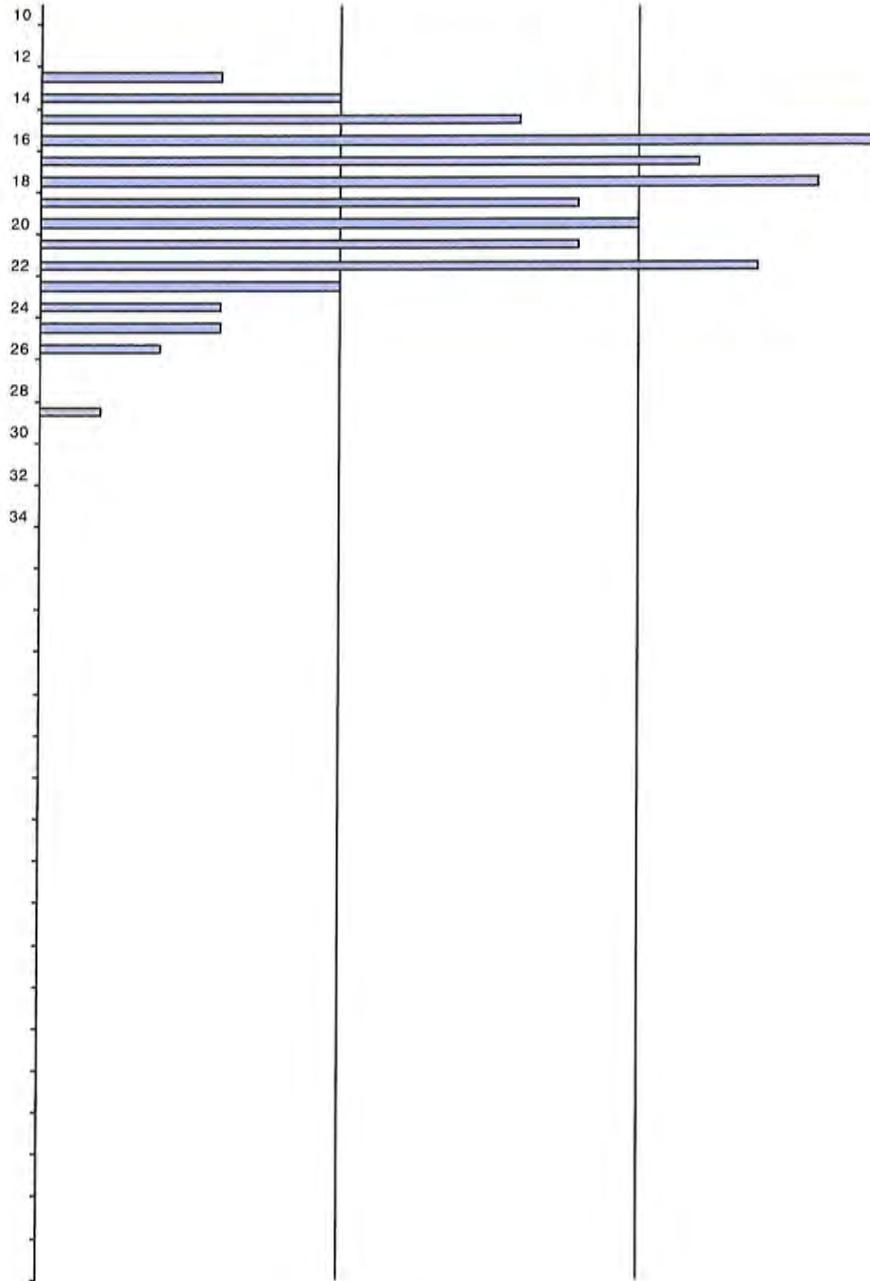
DATE: 1/14/20
TIME: 10:30-11:30

Location: 16 47th Ave
Posted Speed: 25 MPH Clear/Dry

Project #: 20-8004-019

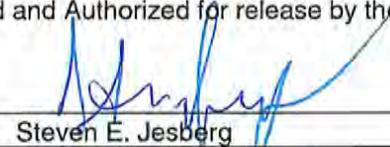
Northbound & Southbound Spot Speeds

Speed mph	ALL Vehicles
<=10	
11	
12	
13	3
14	5
15	8
16	14
17	11
18	13
19	9
20	10
21	9
22	12
23	5
24	3
25	3
26	2
27	
28	
29	1
30	
31	
32	
33	
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>=70	



SPEED PARAMETERS									
Class	Count	Range	50th Percentile	85th Percentile	10 MPH Pace	# in Pace	Percent in Pace	% / # Below Pace	% / # Above Pace
ALL	108	13 - 29	18 mph	22 mph	15 - 24	99	92%	7% / 8	1% / 1



Street:	49th Ave	
Limits:	Between Capitola Rd & Wharf Rd	
Direction:	NB & SB	
Factors		
A. <u>Prevailing Speed Data</u>		
Location of Survey	1745 49 th Ave	
Date of Survey	1/23/2020	
Posted Speed Limit (mph)	25 mph	
# Speed Data Collected	115	
85 th Percentile (mph)	31	
10 mph Pace	22-31	
Percent in Pace	78%	
B. <u>Traffic Factors</u>		
Width:	28	
Length of Segment (mi.)	0.13	
Street Classification	Minor Arterial	
C. <u>Collision History</u>		
Date Range Covered	1/1/2017-12/31/2019	
Total Accidents	One total collision	
D. <u>Roadway Conditions</u>		
Adjacent Land Use	It is a primarily residential district and business parking lot.	
Roadway Geometrics	Two-lane roadways. Sidewalks are present on the part of the east side of the roadway.	
Comments	After evaluating current critical and pace speeds, it is recommended that a 25-mph speed limit be implemented to be in concurrence with section 2B.13 of the MUTCD. The 25-mph speed limit was obtained by a 5-mph reduction of the critical speed of 30mph due to the number of access points, Residential district density (as defined in section 515), and pedestrian and bicyclist safety.	
Speed Limit Change?	No	
Existing Speed Limit: 25 MPH	Recommended Speed Limit: 25 MPH	
This Survey conforms to section 627 and 40802 of the California Vehicle Code section 2B.13 of the California MUTCD and recommends a speed limit appropriate to facilitate the safe and orderly movement of traffic.		
Approved and Authorized for release by the City of Capitola Public Works:		
Signed:		Title: City Engineer
	Steven E. Jesberg	

City of Capitola

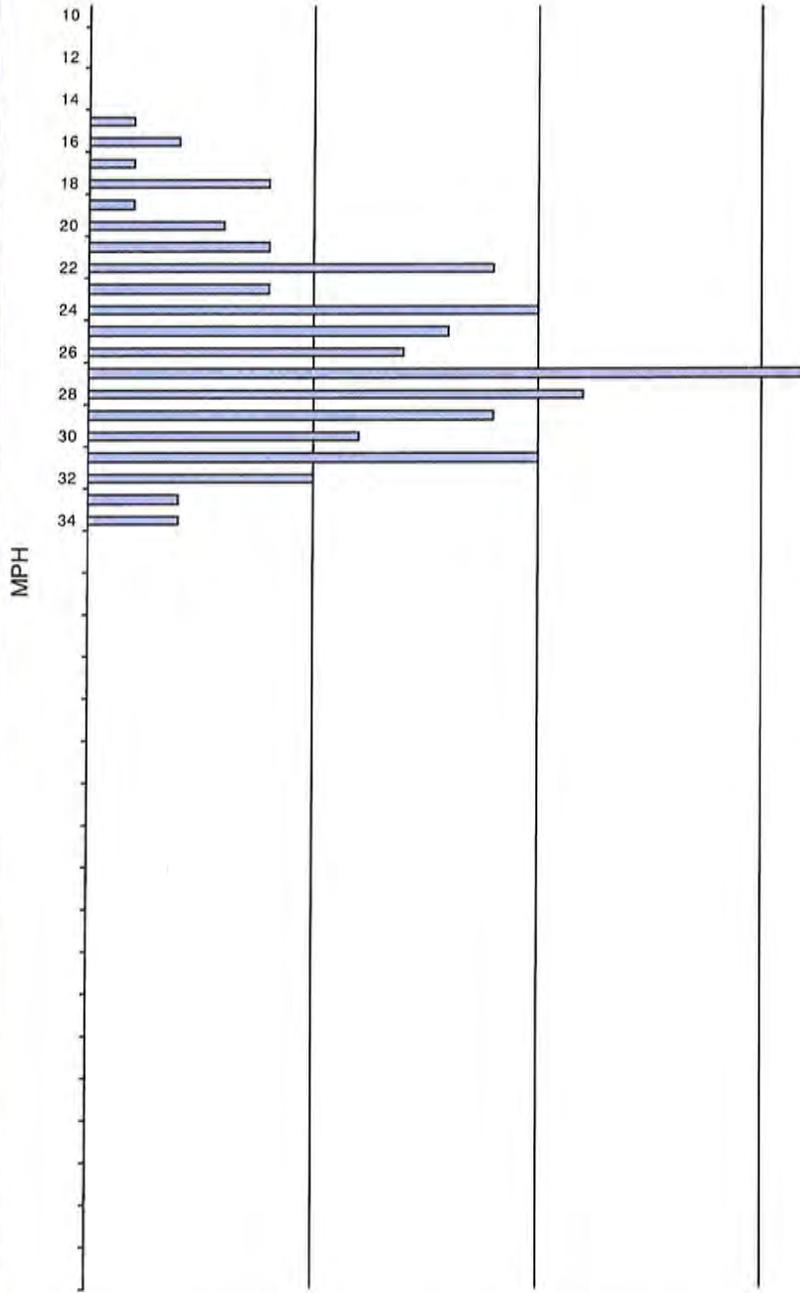
DATE: 1/23/20
TIME: 13:20-14:20

Location: 1745 49th Ave
Posted Speed: 25 MPH Clear/Dry

Project #: 20-8004-026

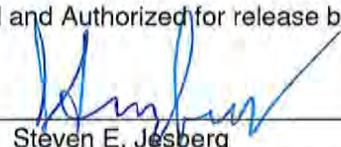
Northbound & Southbound Spot Speeds

Speed mph	ALL Vehicles
<=10	
11	
12	
13	
14	
15	1
16	2
17	1
18	4
19	1
20	3
21	4
22	9
23	4
24	10
25	8
26	7
27	16
28	11
29	9
30	6
31	10
32	5
33	2
34	2
35	
36	
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>=70	



SPEED PARAMETERS									
Class	Count	Range	50th Percentile	85th Percentile	10 MPH Pace	# in Pace	Percent in Pace	% / # Below Pace	% / # Above Pace
ALL	115	15 - 34	27 mph	31 mph	22 - 31	90	78%	13% / 16	8% / 9



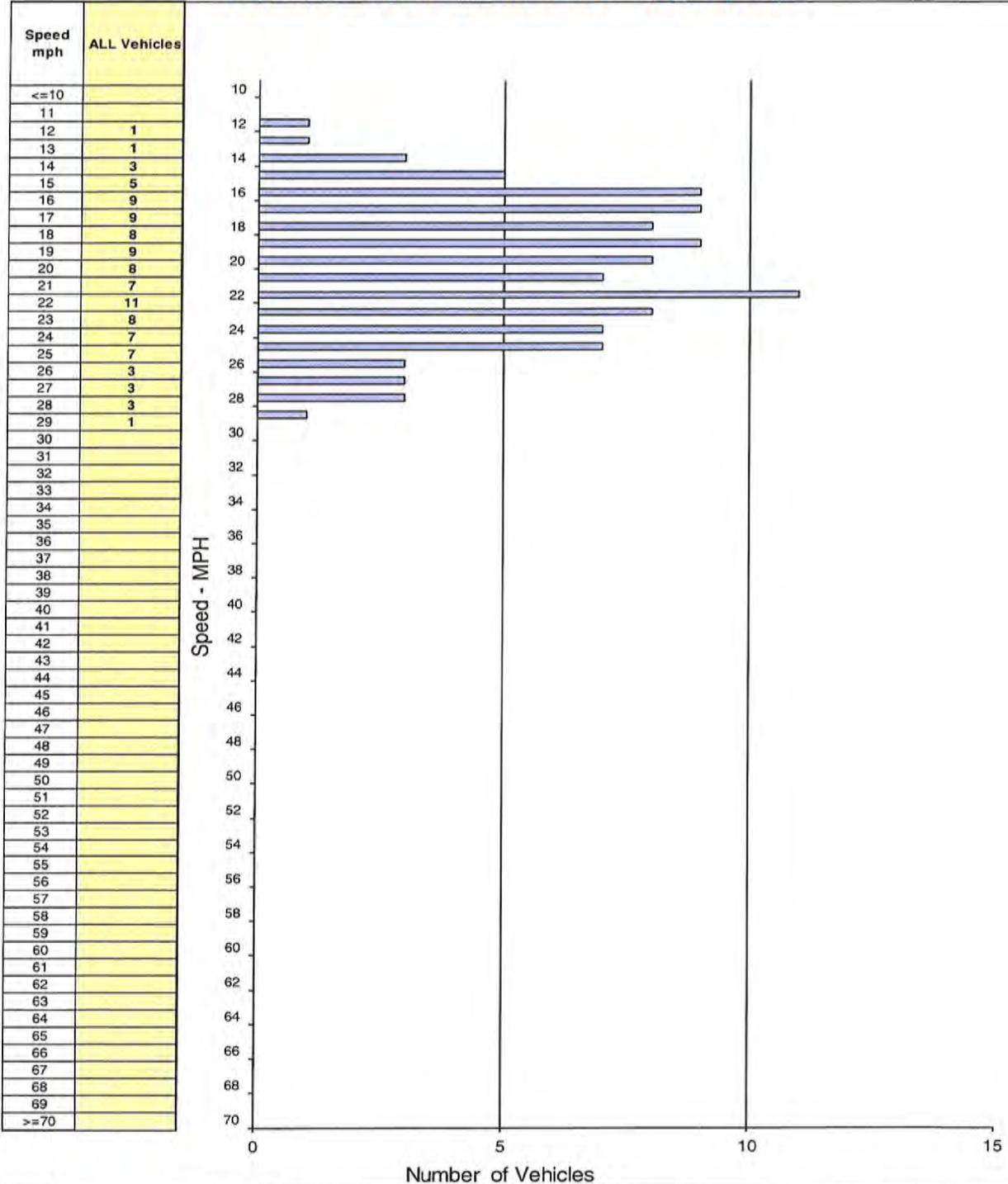
Street:	Bay Ave
Limits:	Between SR 1 & S. Main St
Direction:	NB & SB
Factors	
A. <u>Prevailing Speed Data</u>	
Location of Survey	Bay Ave 100' S/O S Main St.
Date of Survey	01/29/2020
Posted Speed Limit (mph)	None
# Speed Data Collected	103
85 th Percentile (mph)	25
10 mph Pace	15-24
Percent in Pace	82%
B. <u>Traffic Factors</u>	
Width:	89'
Length of Segment (mi.)	0.06
Street Classification	Minor Arterial
C. <u>Collision History</u>	
Date Range Covered	1/1/2017-12/31/2019
Total Accidents	6 Six total, two injury
D. <u>Roadway Conditions</u>	
Adjacent Land Use	It is primarily a business district.
Roadway Geometrics	Four-lane roadways. Sidewalks are present on the east and west side of the roadway. Signalized intersection has turn pockets and crosswalks.
Comments	Results of the attached engineering & traffic survey information support maintaining the existing 25 mph speed limit.
Speed Limit Change?	No
Existing Speed Limit: 25 MPH	Recommended Speed Limit: 25 MPH
<p>This Survey conforms to section 627 and 40802 of the California Vehicle Code section 2B.13 of the California MUTCD and recommends a speed limit appropriate to facilitate the safe and orderly movement of traffic.</p> <p>Approved and Authorized for release by the City of Capitola Public Works:</p>	
Signed:  Steven E. Jesberg	Title: City Engineer

City of Capitola

DATE: 1/29/2020
 TIME: 14:35-15:05

Location: Bay Ave 100' S/O S Main St
 Posted Speed: None Clear/Dry Project #: 20-8004-053

Northbound & Southbound Spot Speeds



SPEED PARAMETERS									
Class	Count	Range	50th Percentile	85th Percentile	10 MPH Pace	# in Pace	Percent in Pace	% / # Below Pace	% / # Above Pace
ALL	103	12 - 29	20 mph	25 mph	15 - 24	84	82%	4% / 5	14% / 14



Street:	Bay Ave	
Limits:	Between Hill St & SR1	
Direction:	NB & SB	
Factors		
A. <u>Prevailing Speed Data</u>		
Location of Survey	800 Bay Ave.	
Date of Survey	01/15/2020	
Posted Speed Limit (mph)	25	
# Speed Data Collected	159	
85 th Percentile (mph)	31	
10 mph Pace	24-33	
Percent in Pace	90%	
B. <u>Traffic Factors</u>		
Width	69'	
Length of Segment (mi.)	0.11	
Street Classification	Minor Arterial	
C. <u>Collision History</u>		
Date Range Covered	1/1/2017-12/31/2019	
Total Accidents	Seven total, two injury	
D. <u>Roadway Conditions</u>		
Adjacent Land Use	It is primarily a business district with a substantial shopping center, business center, and senior center border the roadway.	
Roadway Geometrics	Four-lane roadways. Sidewalks are present on the east and west side of the roadway. Signalized intersection has turn pockets and crosswalks.	
Comments	After evaluating current critical and pace speeds, it is recommended that a 25-mph speed limit be implemented to be in concurrence with section 2B.13 of the MUTCD. The 25-mph speed limit was obtained by a 5-mph reduction of the critical speed of 30mph due to the number of access points, Residential district density (as defined in section 515), and pedestrian and bicyclist safety.	
Speed Limit Change?	No	
Existing Speed Limit: 25 MPH		Recommended Speed Limit: 25 MPH
<p>This Survey conforms to section 627 and 40802 of the California Vehicle Code section 2B.13 of the California MUTCD and recommends a speed limit appropriate to facilitate the safe and orderly movement of traffic.</p> <p>Approved and Authorized for release by the City of Capitola Public Works:</p>		
Signed:		Title: City Engineer
Steven E. Jesberg		

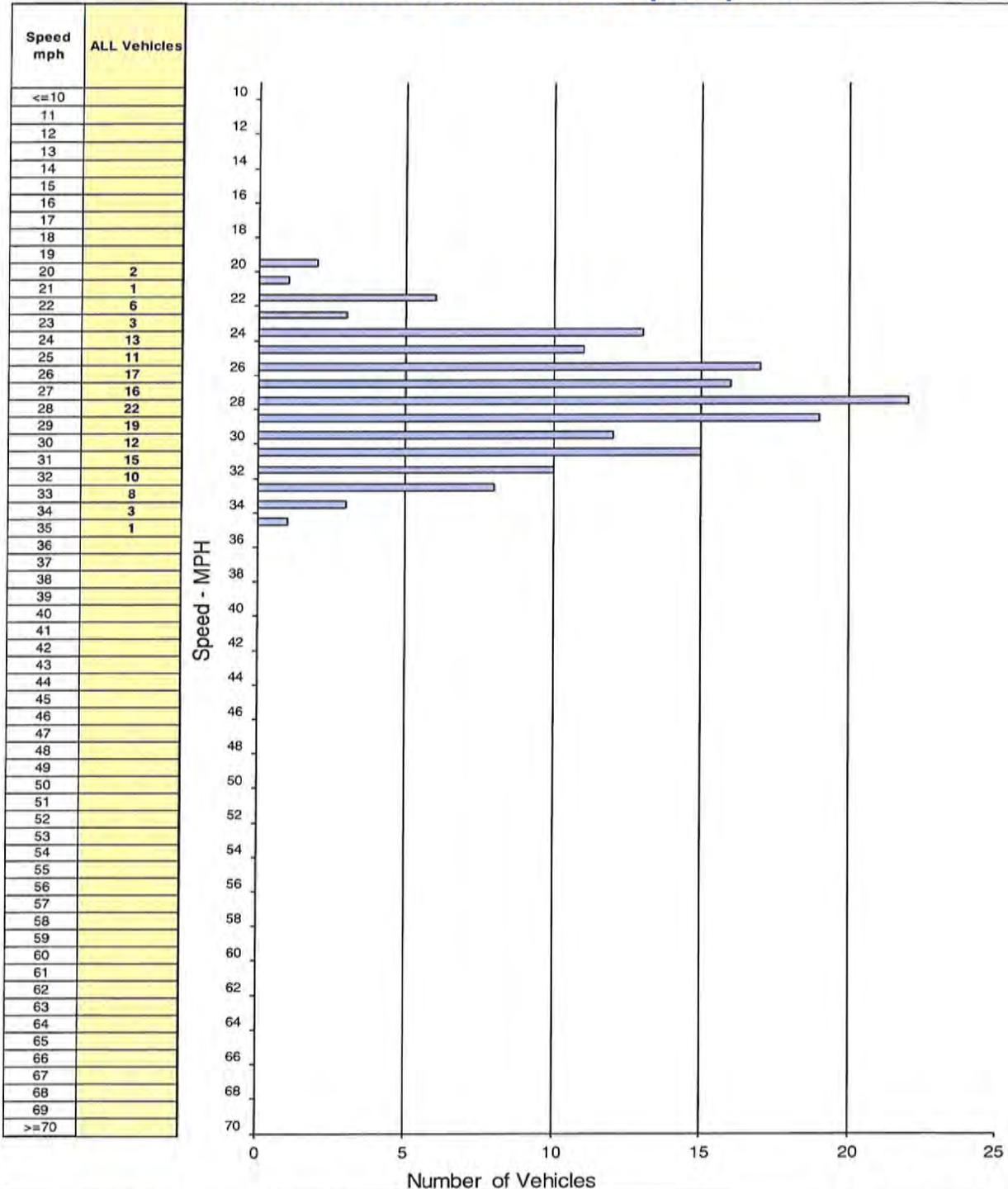
City of Capitola

DATE: 1/15/2020
TIME: 12:05-13:30

Location: 800 Bay Ave
Posted Speed: 25 MPH Clear/Dry

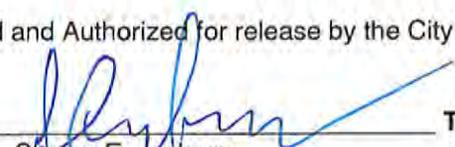
Project #: 20-8004-051

Northbound & Southbound Spot Speeds



SPEED PARAMETERS									
Class	Count	Range	50th Percentile	85th Percentile	10 MPH Pace	# In Pace	Percent In Pace	% / # Below Pace	% / # Above Pace
ALL	159	20 - 35	28 mph	31 mph	24 - 33	143	90%	7% / 12	3% / 4



Street:	Bay Ave	
Limits:	Between Capitola Ave & Hill St	
Direction:	NB & SB	
Factors		
A. <u>Prevailing Speed Data</u>		
Location of Survey	831 Bay Ave.	
Date of Survey	01/15/2020	
Posted Speed Limit (mph)	25	
# Speed Data Collected	180	
85 th Percentile (mph)	28	
10 mph Pace	18-27	
Percent in Pace	82%	
B. <u>Traffic Factors</u>		
Width:	53'	
Length of Segment (mi.)	0.21	
Street Classification	Minor Arterial	
C. <u>Collision History</u>		
Date Range Covered	1/1/2017-12/31/2019	
Total Accidents	Four total collisions, two Injury	
D. <u>Roadway Conditions</u>		
Adjacent Land Use	It is a primarily residential and business district, A substantial senior center apartment complex, and a shopping center.	
Roadway Geometrics	Four-lane roadways convert into a two-lane roadway with sidewalks present on the east and west side of the roadway. The segment features a steady incline.	
Comments	After evaluating current critical and pace speeds, it is recommended that a 25-mph speed limit be implemented to be in concurrence with section 2B.13 of the MUTCD. The 25-mph speed limit was obtained by a 5-mph reduction of the critical speed of 30mph due to the number of access points, Residential district density (as defined in section 515), and pedestrian and bicyclist safety.	
Speed Limit Change?	No	
Existing Speed Limit: 25 MPH	Recommended Speed Limit: 25 MPH	
This Survey conforms to section 627 and 40802 of the California Vehicle Code section 2B.13 of the California MUTCD and recommends a speed limit appropriate to facilitate the safe and orderly movement of traffic.		
Approved and Authorized for release by the City of Capitola Public Works:		
Signed:		Title: City Engineer
	Steven E. Jesberg	

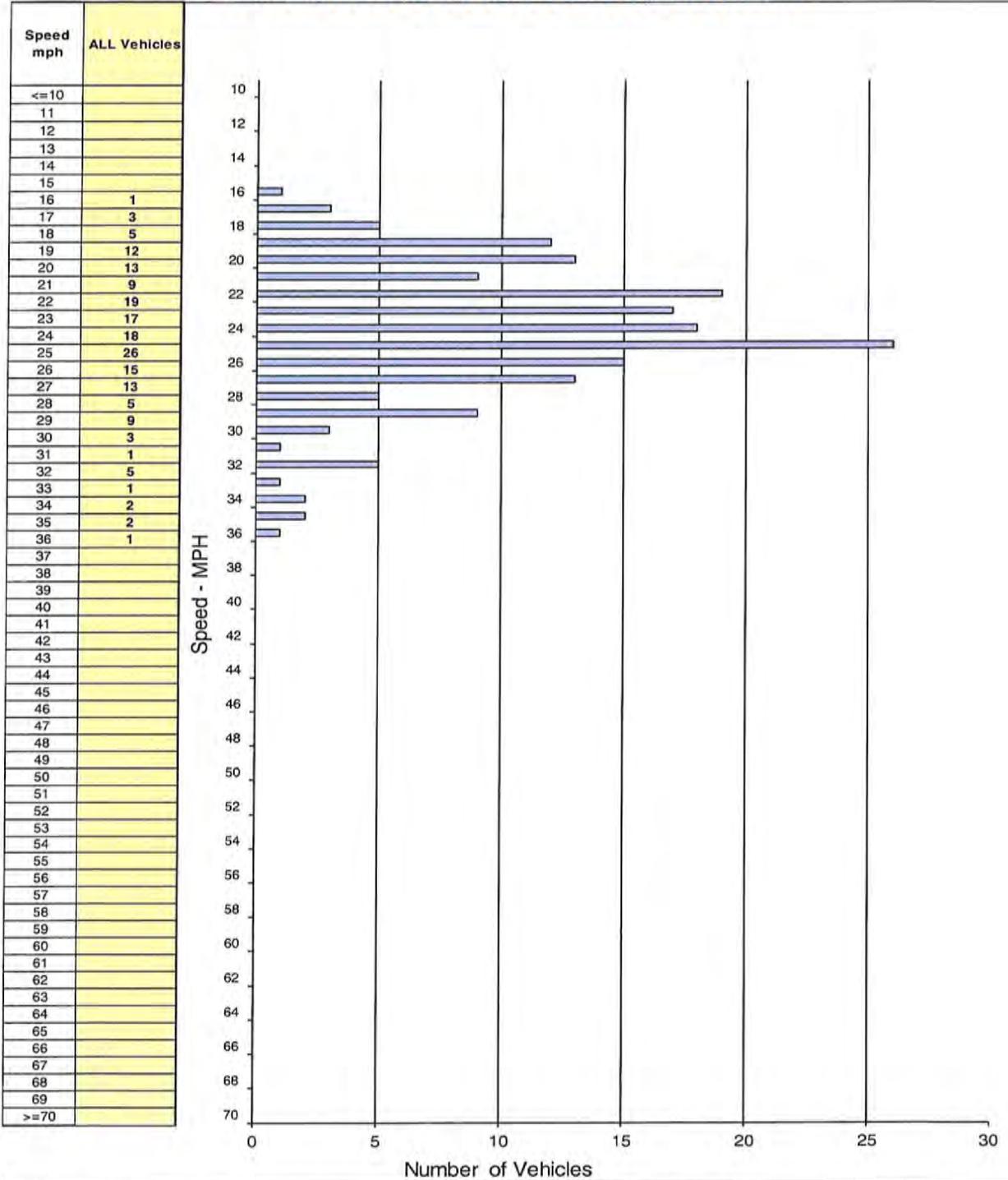
City of Capitola

DATE: 1/15/2020
TIME: 14:15-15:30

Location: 831 Bay Ave
Posted Speed: 25 MPH Clear/Dry

Project #: 20-8004-052

Northbound & Southbound Spot Speeds



SPEED PARAMETERS									
Class	Count	Range	50th Percentile	85th Percentile	10 MPH Pace	# in Pace	Percent in Pace	% / # Below Pace	% / # Above Pace
ALL	180	16 - 36	24 mph	28 mph	18 - 27	147	82%	2% / 4	17% / 29



Street:	Bay Ave	
Limits:	Between Monterey Ave & Capitola Ave	
Direction:	NB & SB	
Factors		
A. <u>Prevailing Speed Data</u>		
Location of Survey	380 Bay Ave.	
Date of Survey	01/15/2020	
Posted Speed Limit (mph)	25	
# Speed Data Collected	138	
85 th Percentile (mph)	31	
10 mph Pace	23-32	
Percent in Pace	80%	
B. <u>Traffic Factors</u>		
Width:	40'	
Length of Segment (mi.)	0.21	
Street Classification	Minor Arterial	
C. <u>Collision History</u>		
Date Range Covered	1/1/2017-12/31/2019	
Total Accidents	Five total collisions, one Injury	
D. <u>Roadway Conditions</u>		
Adjacent Land Use	It is a primarily residential and business district.	
Roadway Geometrics	Two-lane roadways. Sidewalks are present on the east and west side of the roadway.	
Comments	After evaluating current critical and pace speeds, it is recommended that a 25-mph speed limit be implemented to be in concurrence with section 2B.13 of the MUTCD. The 25-mph speed limit was obtained by a 5-mph reduction of the critical speed of 30mph due to the number of access points, Residential district density (as defined in section 515), and pedestrian and bicyclist safety.	
Speed Limit Change?	No	
Existing Speed Limit: 25 MPH		Recommended Speed Limit: 25 MPH
<p>This Survey conforms to section 627 and 40802 of the California Vehicle Code section 2B.13 of the California MUTCD and recommends a speed limit appropriate to facilitate the safe and orderly movement of traffic.</p> <p>Approved and Authorized for release by the City of Capitola Public Works:</p>		
Signed:		Title: City Engineer
Steven E. Jesberg		

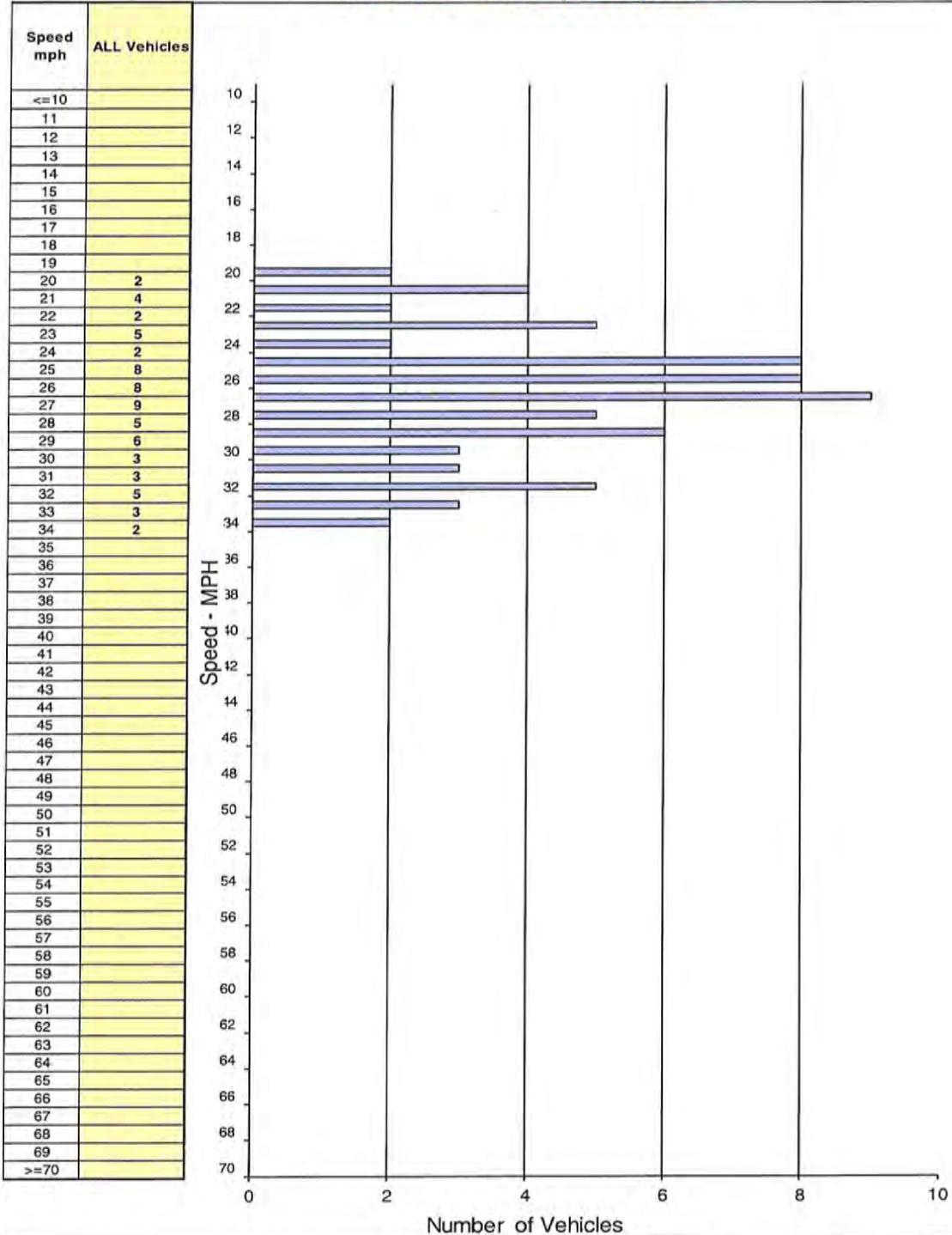
City of Capitola

DATE: 1/15/2020
 TIME: 10:30-11:40

Location: 380 Bay Ave
 Posted Speed: 25 MPH Clear/Dry

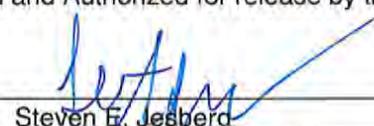
Project #: 20-8004-050

Northbound Spot Speeds



SPEED PARAMETERS									
Class	Count	Range	50th Percentile	85th Percentile	10 MPH Pace	# In Pace	Percent In Pace	% / # Below Pace	% / # Above Pace
ALL	67	20 - 34	27 mph	31 mph	23 - 32	54	81%	11% / 8	8% / 5



Street:	Brommer St	
Limits:	Between 38 th Ave & 41 th Ave	
Direction:	EB & WB	
Factors		
A. <u>Prevailing Speed Data</u>		
Location of Survey	3865 Brommer St.	
Date of Survey	01/13/2020	
Posted Speed Limit (mph)	25	
# Speed Data Collected	219	
85 th Percentile (mph)	27	
10 mph Pace	19-28	
Percent in Pace	86%	
B. <u>Traffic Factors</u>		
Width:	39'	
Length of Segment (mi.)	0.12	
Street Classification	Minor Arterial	
C. <u>Collision History</u>		
Date Range Covered	1/1/2017-12/31/2019	
Total Accidents	One total collision	
D. <u>Roadway Conditions</u>		
Adjacent Land Use	It is a primarily residential and business district.	
Roadway Geometrics	Two-lane roadways. Sidewalks are present on the north and south side of the roadway.	
Comments	Results of the attached engineering & traffic survey information support maintaining the existing 25 mph speed limit.	
Speed Limit Change?	No	
Existing Speed Limit: 25 MPH		Recommended Speed Limit: 25 MPH
<p>This Survey conforms to section 627 and 40802 of the California Vehicle Code section 2B.13 of the California MUTCD and recommends a speed limit appropriate to facilitate the safe and orderly movement of traffic.</p> <p>Approved and Authorized for release by the City of Capitola Public Works:</p>		
<p>Signed:  Title: City Engineer</p> <p style="margin-left: 100px;">Steven E. Jesberg</p>		

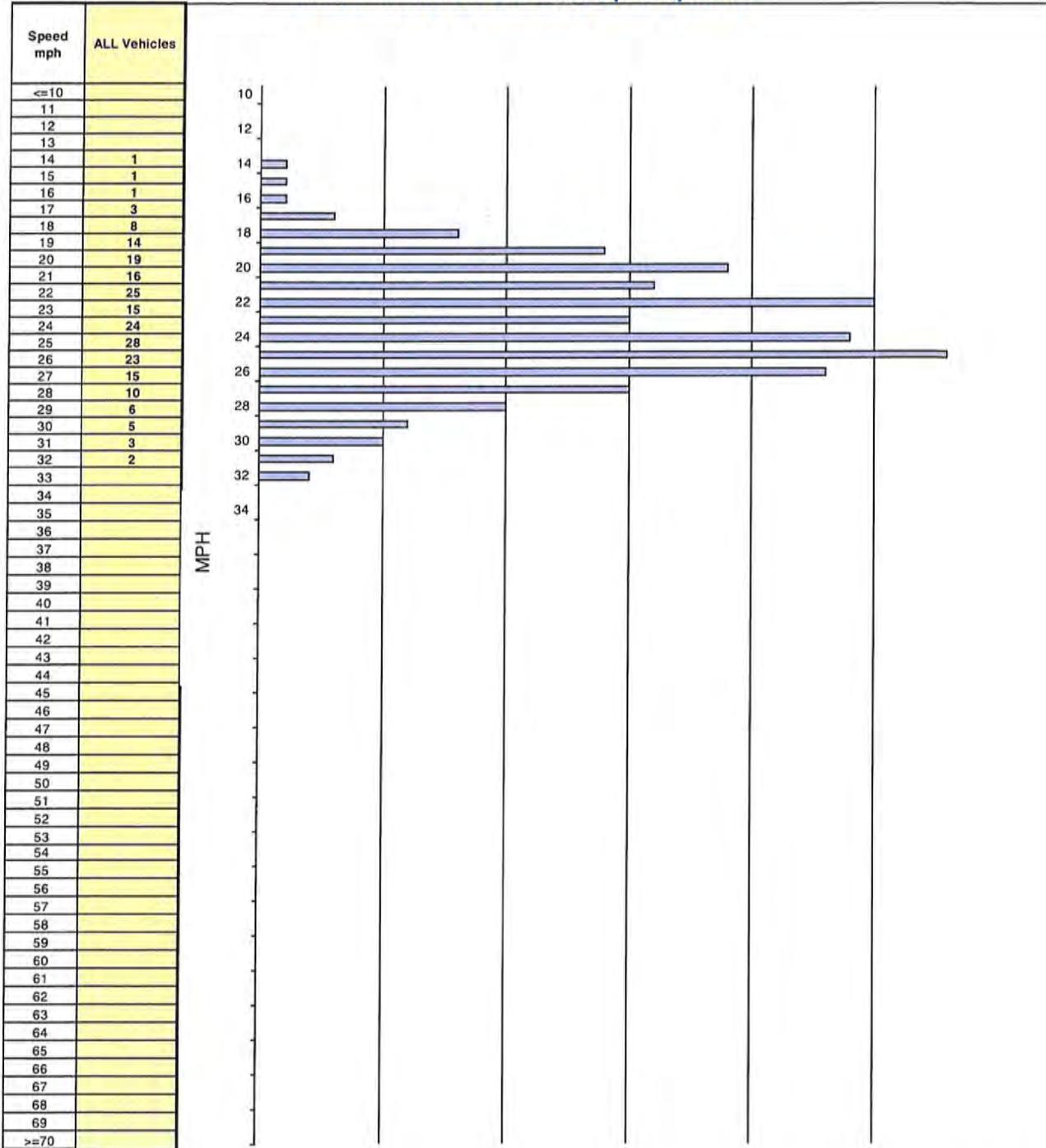
City of Capitola

DATE: 1/13/20
TIME: 12:15-12:55

Location: 3865 Brommer St
Posted Speed: 25 MPH Clear/Dry

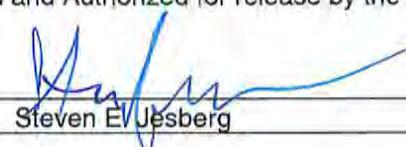
Project #: 20-8004-014

Eastbound & Westbound Spot Speeds



SPEED PARAMETERS									
Class	Count	Range	50th Percentile	85th Percentile	10 MPH Pace	# in Pace	Percent in Pace	% / # Below Pace	% / # Above Pace
ALL	219	14 - 32	24 mph	27 mph	19 - 28	189	86%	6% / 14	8% / 16



Street:	Capitola Ave	
Limits:	Between Hill St & City Limit	
Direction:	NB & SB	
Factors		
A. <u>Prevailing Speed Data</u>		
Location of Survey	2551 Capitola Ave.	
Date of Survey	01/29/2020	
Posted Speed Limit (mph)	25	
# Speed Data Collected	253	
85 th Percentile (mph)	32	
10 mph Pace	25-34	
Percent in Pace	89%	
B. <u>Traffic Factors</u>		
Width	36	
Length of Segment (mi.)	0.38	
Street Classification	Minor Arterial	
C. <u>Collision History</u>		
Date Range Covered	1/1/2017-12/31/2019	
Total Accidents	Four total collisions, one injury	
D. <u>Roadway Conditions</u>		
Adjacent Land Use	It is s primarily residential district with substantial Apartment complexes and a substantial mobile home complex.	
Roadway Geometrics	Two-lane roadways. Sidewalks are present on the east and west sides of the roadway. The segment features a steady incline.	
Comments	After evaluating current critical and pace speeds, it is recommended that a 25-mph speed limit be implemented to be in concurrence with section 2B.13 of the MUTCD. The 25-mph speed limit was obtained by a 5-mph reduction of the critical speed of 30 mph due to the number of access points, Residential district density (as defined in section 515), and pedestrian and bicyclist safety.	
Speed Limit Change?	No	
Existing Speed Limit: 25 MPH	Recommended Speed Limit: 25 MPH	
This Survey conforms to section 627 and 40802 of the California Vehicle Code section 2B.13 of the California MUTCD and recommends a speed limit appropriate to facilitate the safe and orderly movement of traffic.		
Approved and Authorized for release by the City of Capitola Public Works:		
Signed:		Title: City Engineer
	Steven E. Jesberg	

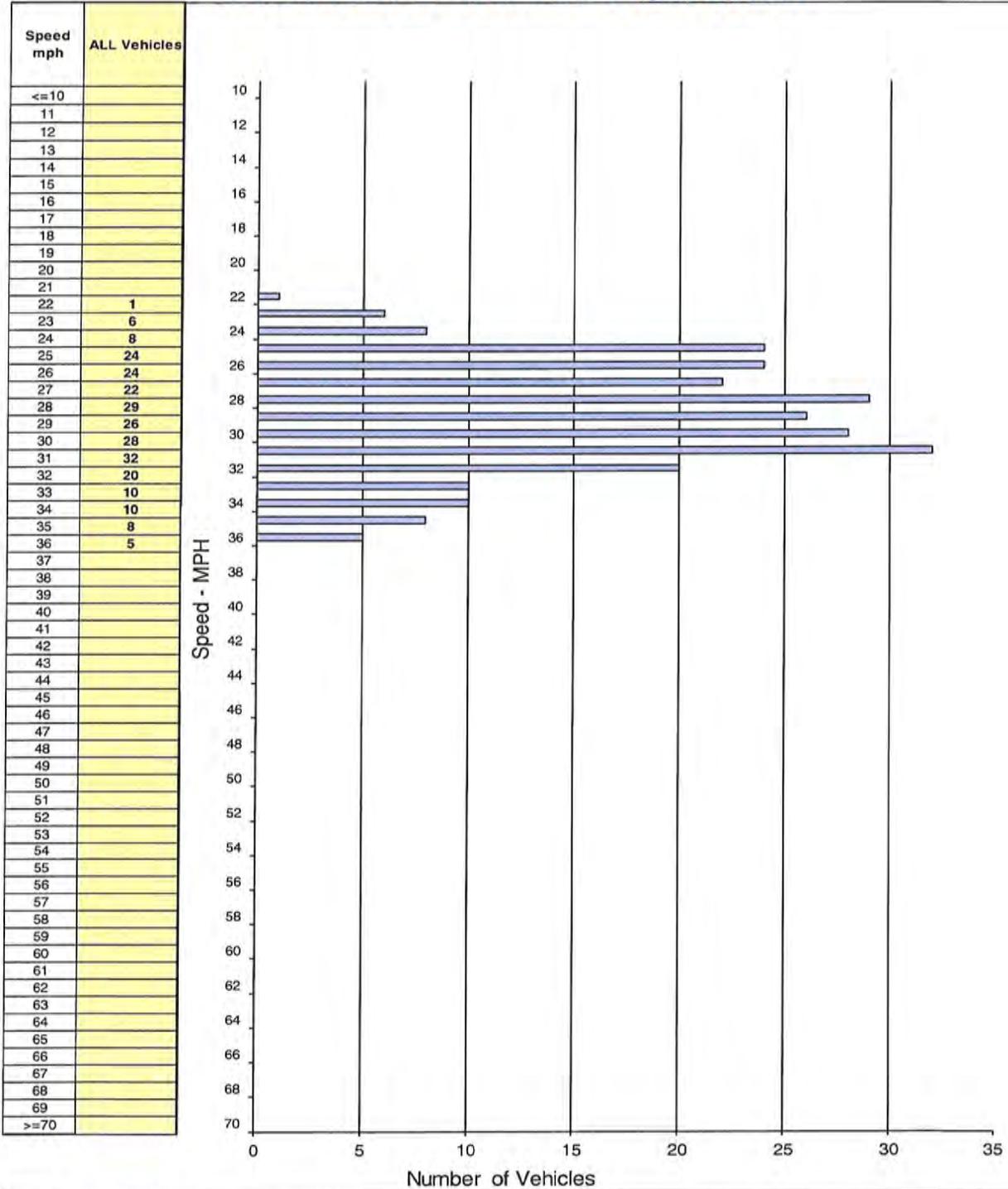
City of Capitola

DATE: 1/29/2020
TIME: 14:30-15:30

Location: 2551 Capitola Ave
Posted Speed: 25 MPH Clear/Dry

Project #: 20-8004-049

Northbound & Southbound Spot Speeds



SPEED PARAMETERS									
Class	Count	Range	50th Percentile	85th Percentile	10 MPH Pace	# In Pace	Percent in Pace	% / # Below Pace	% / # Above Pace
ALL	253	22 - 36	29 mph	32 mph	25 - 34	225	89%	5% / 15	6% / 13



Street: Capitola Ave
Limits: Between Bay Ave & Hill St
Direction: NB & SB

Factors

A. Prevailing Speed Data

Location of Survey	804 Capitola Ave
Date of Survey	01/15/2020
Posted Speed Limit (mph)	25
# Speed Data Collected	136
85 th Percentile (mph)	31
10 mph Pace	22-31
Percent in Pace	82%

B. Traffic Factors

Width:	38'
Length of Segment (mi.)	0.20
Street Classification	Minor Arterial

C. Collision History

Date Range Covered	1/1/2017-12/31/2019
Total Accidents	Five total accidents

D. Roadway Conditions

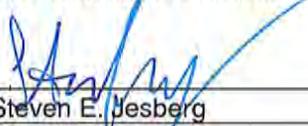
Adjacent Land Use	It is a primarily residential and business district, with an apartment complex and a substantial business.
Roadway Geometrics	Two-lane roadways. Sidewalks are present on the east and west sides of the roadway. The segment features a steady incline between Pine St and Hill St.
Comments	After evaluating current critical and pace speeds, it is recommended that a 25-mph speed limit be implemented to be in concurrence with section 2B.13 of the MUTCD. The 25-mph speed limit was obtained by a 5-mph reduction of the critical speed of 30 mph due to the number of access points, Residential district density (as defined in section 515), and pedestrian and bicyclist safety.

Speed Limit Change? No

Existing Speed Limit: 25 MPH **Recommended Speed Limit: 25 MPH**

This Survey conforms to section 627 and 40802 of the California Vehicle Code section 2B.13 of the California MUTCD and recommends a speed limit appropriate to facilitate the safe and orderly movement of traffic.

Approved and Authorized for release by the City of Capitola Public Works:

Signed:  **Title:** City Engineer
 Steven E. Jesberg

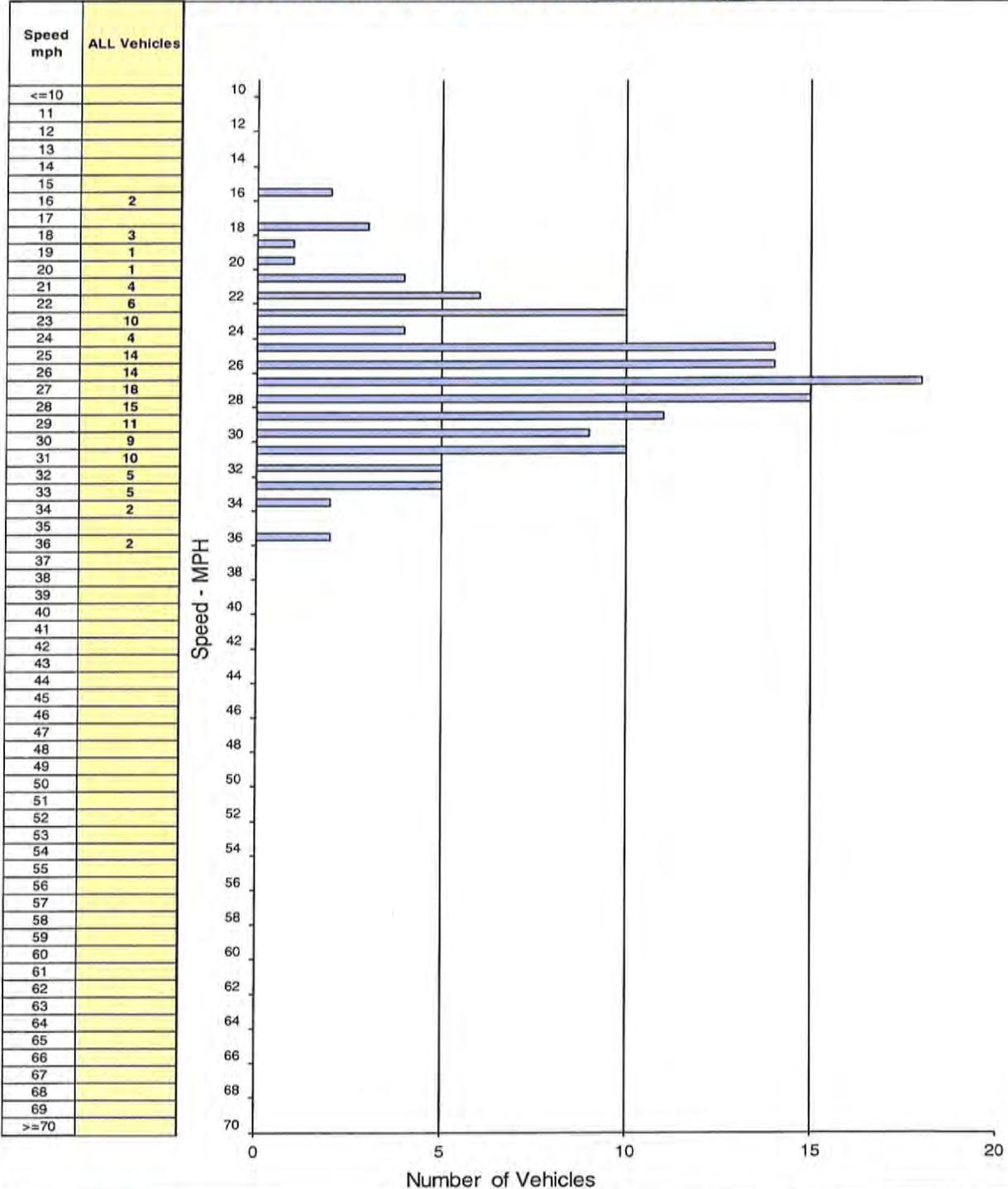
City of Capitola

DATE: 1/15/2020
TIME: 09:00-10:15

Location: 804 Capitola Ave
Posted Speed: 25 MPH Clear/Dry

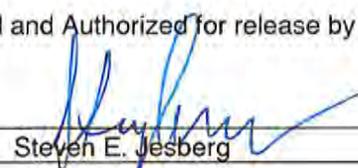
Project #: 20-8004-048

Northbound & Southbound Spot Speeds



SPEED PARAMETERS									
Class	Count	Range	50th Percentile	85th Percentile	10 MPH Pace	# In Pace	Percent In Pace	% / # Below Pace	% / # Above Pace
ALL	136	16 - 36	27 mph	31 mph	22 - 31	111	82%	8% / 11	11% / 14



Street:	Capitola Ave	
Limits:	Between Bay Ave & Beverly Ave	
Direction:	NB & SB	
Factors		
A. <u>Prevailing Speed Data</u>		
Location of Survey	607 Capitola Ave	
Date of Survey	01/14/2020	
Posted Speed Limit (mph)	25	
# Speed Data Collected	202	
85 th Percentile (mph)	27	
10 mph Pace	18-27	
Percent in Pace	84%	
B. <u>Traffic Factors</u>		
Width:	43'	
Length of Segment (mi.)	0.11	
Street Classification	Minor Arterial	
C. <u>Collision History</u>		
Date Range Covered	1/1/2017-12/31/2019	
Total Accidents	Five total accidents, two injury	
D. <u>Roadway Conditions</u>		
Adjacent Land Use	It is a primarily residential and business district.	
Roadway Geometrics	Two-lane roadways. Sidewalks are present on the east and west sides of the roadway. The segment features a steady incline.	
Comments	Results of the attached engineering & traffic survey information support maintaining the existing 25 mph speed limit.	
Speed Limit Change?	No	
Existing Speed Limit: 25 MPH	Recommended Speed Limit: 25 MPH	
<p>This Survey conforms to section 627 and 40802 of the California Vehicle Code section 2B.13 of the California MUTCD and recommends a speed limit appropriate to facilitate the safe and orderly movement of traffic.</p> <p>Approved and Authorized for release by the City of Capitola Public Works:</p>		
Signed:	 Steven E. Jesberg	Title: City Engineer

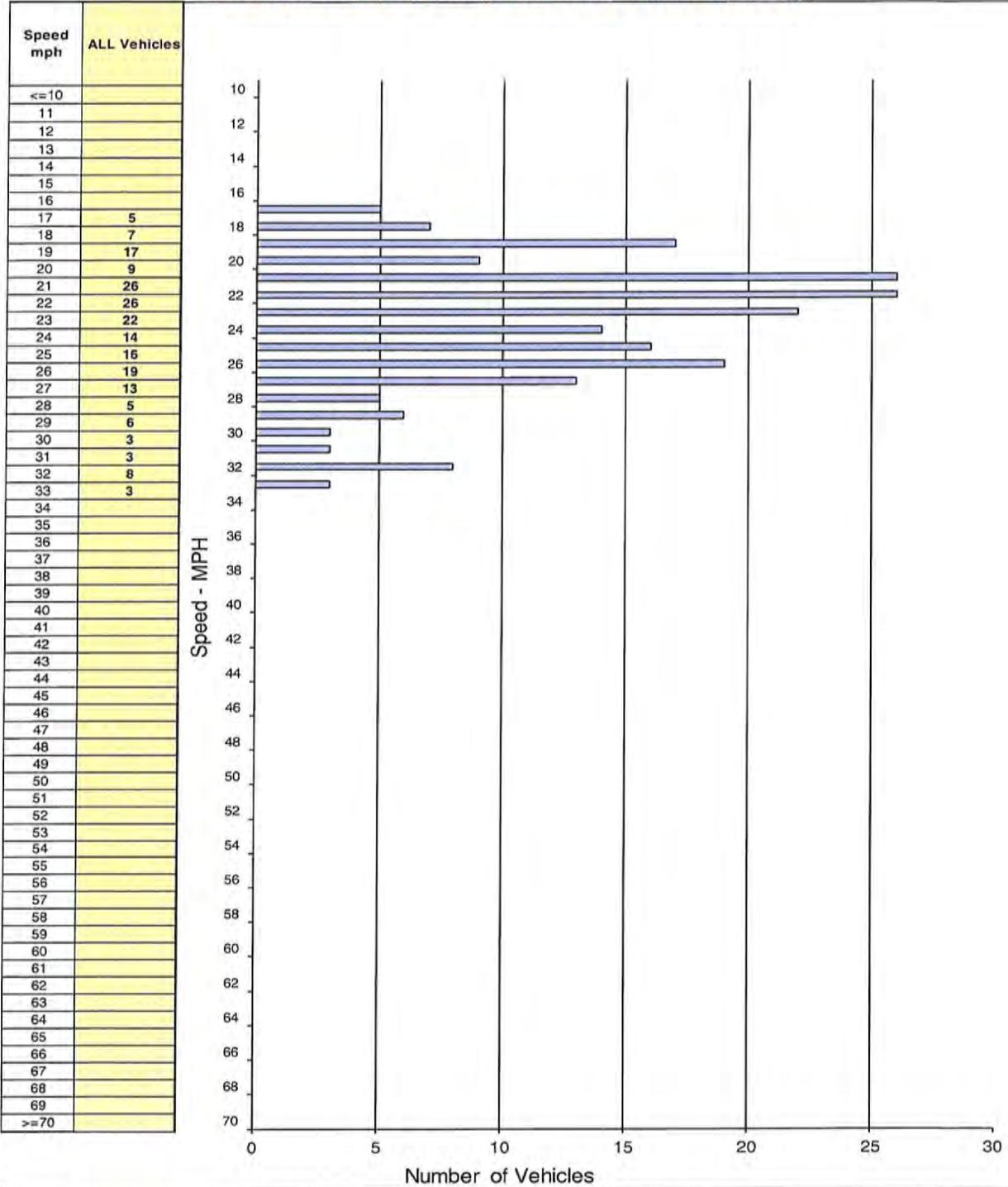
City of Capitola

DATE: 1/14/2020
 TIME: 15:20-16:00

Location: 607 Capitola Ave
 Posted Speed: 25 MPH Clear/Dry

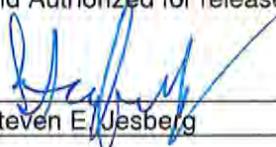
Project #: 20-8004-047

Northbound & Southbound Spot Speeds



SPEED PARAMETERS									
Class	Count	Range	50th Percentile	85th Percentile	10 MPH Pace	# In Pace	Percent in Pace	% / # Below Pace	% / # Above Pace
ALL	202	17 - 33	23 mph	27 mph	18 - 27	169	84%	2% / 5	14% / 28



Street:	Capitola Ave	
Limits:	Between Riverview Dr & Beverly Ave	
Direction:	NB & SB	
Factors		
A. <u>Prevailing Speed Data</u>		
Location of Survey	518 Capitola Ave.	
Date of Survey	01/14/2020	
Posted Speed Limit (mph)	25	
# Speed Data Collected	205	
85 th Percentile (mph)	28	
10 mph Pace	20-29	
Percent in Pace	84%	
B. <u>Traffic Factors</u>		
Width:	42	
Length of Segment (mi.)	0.13	
Street Classification	Minor Arterial	
C. <u>Collision History</u>		
Date Range Covered	1/1/2017-12/31/2019	
Total Accidents	Two total Collisions	
D. <u>Roadway Conditions</u>		
Adjacent Land Use	It is primarily a business district. A senior center, hotel, and extensive shopping center and business complexes	
Roadway Geometrics	Four-lane roadways. Sidewalks are present on the east and west side of the roadway. A signalized intersection has turn pockets and crosswalks.	
Comments	After evaluating current critical and pace speeds, it is recommended that a 25-mph speed limit be implemented to be in concurrence with section 2B.13 of the MUTCD. The 25-mph speed limit was obtained by a 5-mph reduction of the critical speed of 30 mph due to the number of access points, Residential district density (as defined in section 515), and pedestrian and bicyclist safety.	
Speed Limit Change?	No	
Existing speed Limit: 25 MPH		Recommended Speed Limit: 25 MPH
This Survey conforms to section 627 and 40802 of the California Vehicle Code section 2B.13 of the California MUTCD and recommends a speed limit appropriate to facilitate the safe and orderly movement of traffic.		
Approved and Authorized for release by the City of Capitola Public Works:		
Signed:		Title: City Engineer
	Steven E. Jesberg	

City of Capitola

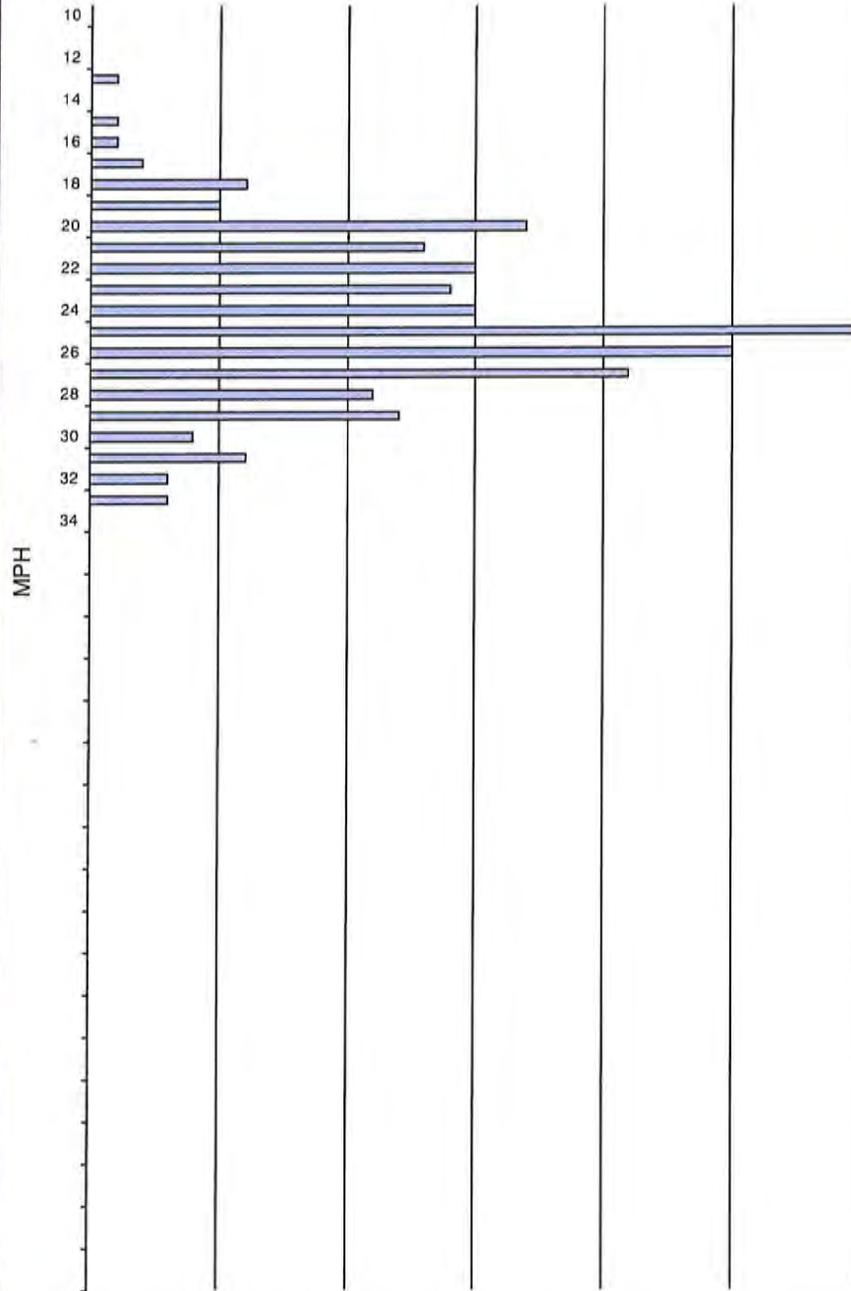
DATE: 1/14/20
TIME: 14:30-15:15

Location: 518 Capitola Ave
Posted Speed: 25 MPH Clear/Dry

Project #: 20-8004-046

Northbound & Southbound Spot Speeds

Speed mph	ALL Vehicles
<=10	
11	
12	
13	1
14	
15	1
16	1
17	2
18	6
19	5
20	17
21	13
22	15
23	14
24	15
25	30
26	25
27	21
28	11
29	12
30	4
31	6
32	3
33	3
34	
35	
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>=70	



SPEED PARAMETERS									
Class	Count	Range	50th Percentile	85th Percentile	10 MPH Pace	# in Pace	Percent In Pace	% / # Below Pace	% / # Above Pace
ALL	205	13 - 33	25 mph	28 mph	20 - 29	173	84%	7% / 16	8% / 16



Street:	Capitola Ave	
Limits:	Between Stockton Ave & Riverview Dr	
Direction:	NB & SB	
Factors		
A. <u>Prevailing Speed Data</u>		
Location of Survey	403 Capitola Ave.	
Date of Survey	01/29/2020	
Posted Speed Limit (mph)	25	
# Speed Data Collected	136	
85 th Percentile (mph)	25	
10 mph Pace	17-26	
Percent in Pace	93%	
B. <u>Traffic Factors</u>		
Width:	35	
Length of Segment (mi.)	0.17	
Street Classification	Minor Arterial	
C. <u>Collision History</u>		
Date Range Covered	1/1/2017-12/31/2019	
Total Accidents	Six total accidents, two injuries	
D. <u>Roadway Conditions</u>		
Adjacent Land Use	It is a primarily residential and business district.	
Roadway Geometrics	Two-lane roadways. Sidewalks are present on the east and west side of the roadway.	
Comments	Results of the attached engineering & traffic survey information support maintaining the existing 25 mph speed limit.	
Speed Limit Change?	No	
Existing Speed Limit: 25 MPH		Recommended Speed Limit: 25 MPH
<p>This Survey conforms to section 627 and 40802 of the California Vehicle Code section 2B.13 of the California MUTCD and recommends a speed limit appropriate to facilitate the safe and orderly movement of traffic.</p> <p>Approved and Authorized for release by the City of Capitola Public Works:</p>		
Signed:	 Steven E. Jesberg	
	Title: City Engineer	

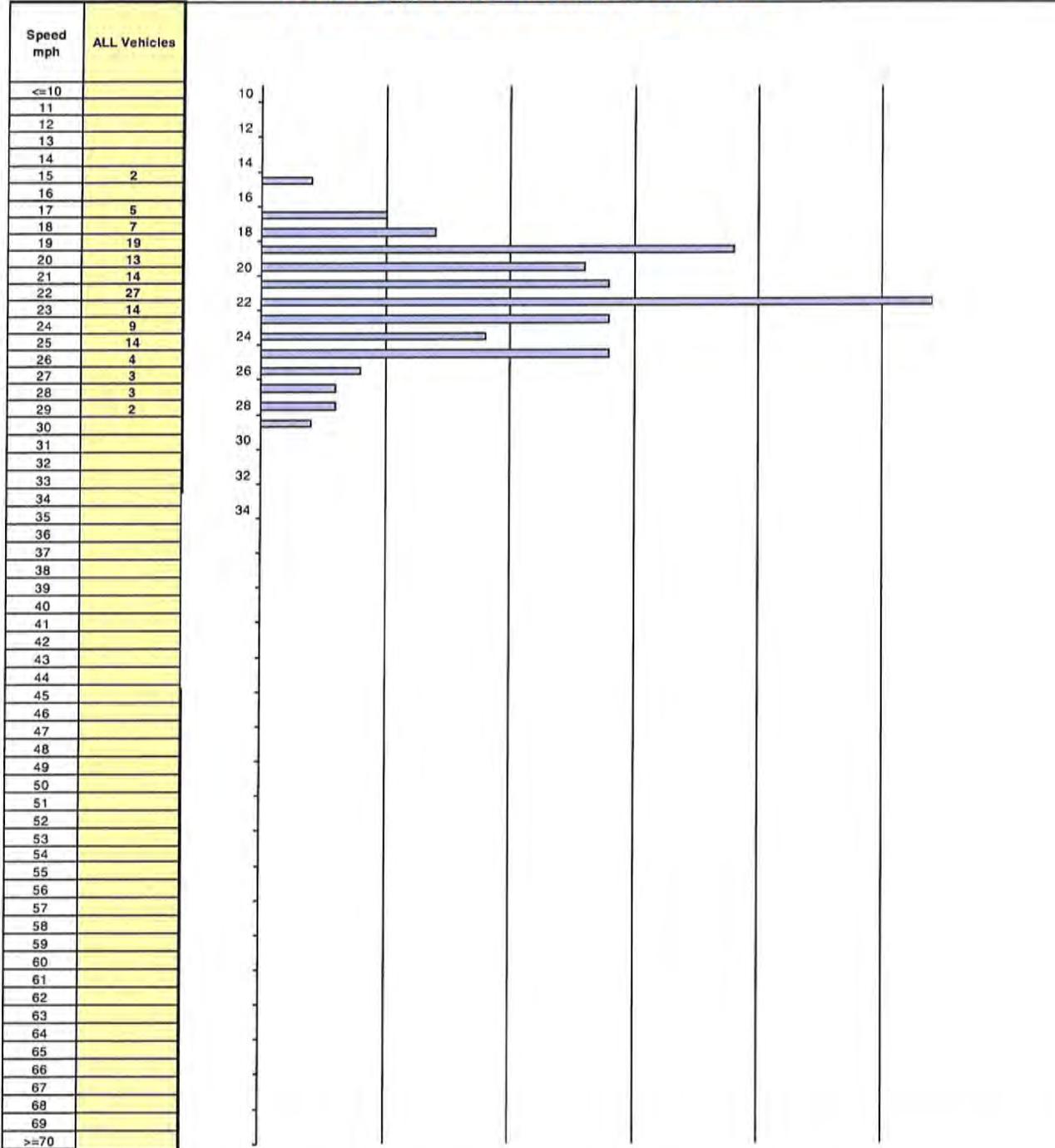
City of Capitola

DATE: 1/29/20
TIME: 12:10-13:10

Location: 403 Capitola Ave
Posted Speed: 25 MPH Clear/Dry

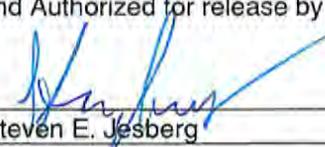
Project #: 20-8004-045

Northbound & Southbound Spot Speeds



SPEED PARAMETERS									
Class	Count	Range	50th Percentile	85th Percentile	10 MPH Pace	# in Pace	Percent in Pace	% / # Below Pace	% / # Above Pace
ALL	136	15 - 29	22 mph	25 mph	17 - 26	126	93%	1% / 2	6% / 8



Street:	Capitola Ave	
Limits:	Between Monterey Ave & Stockton Ave	
Direction:	NB & SB	
Factors		
A. <u>Prevailing Speed Data</u>		
Location of Survey	202 Capitola Ave.	
Date of Survey	1/29/2020	
Posted Speed Limit (mph)	25	
# Speed Data Collected	148	
85 th Percentile (mph)	24	
10 mph Pace	16-25	
Percent in Pace	90%	
B. <u>Traffic Factors</u>		
Width	34'	
Length of Segment (mi.)	0.08	
Street Classification	Minor Arterial	
C. <u>Collision History</u>		
Date Range Covered	1/1/2017-12/31/2019	
Total Accidents	Two total accidents, one Injury	
D. <u>Roadway Conditions</u>		
Adjacent Land Use	It is a primarily residential and business district.	
Roadway Geometrics	Two-lane roadways. Sidewalks are present on the east and west side of the roadway.	
Comments	Results of the attached engineering & traffic survey information support maintaining the existing 25 mph speed limit.	
Speed Limit Change?	No	
Existing Speed Limit: 25 MPH		Recommended Speed Limit: 25 MPH
<p>This Survey conforms to section 627 and 40802 of the California Vehicle Code section 2B.13 of the California MUTCD and recommends a speed limit appropriate to facilitate the safe and orderly movement of traffic.</p> <p>Approved and Authorized for release by the City of Capitola Public Works:</p>		
Signed:	 Steven E. Jesberg	Title: City Engineer

City of Capitola

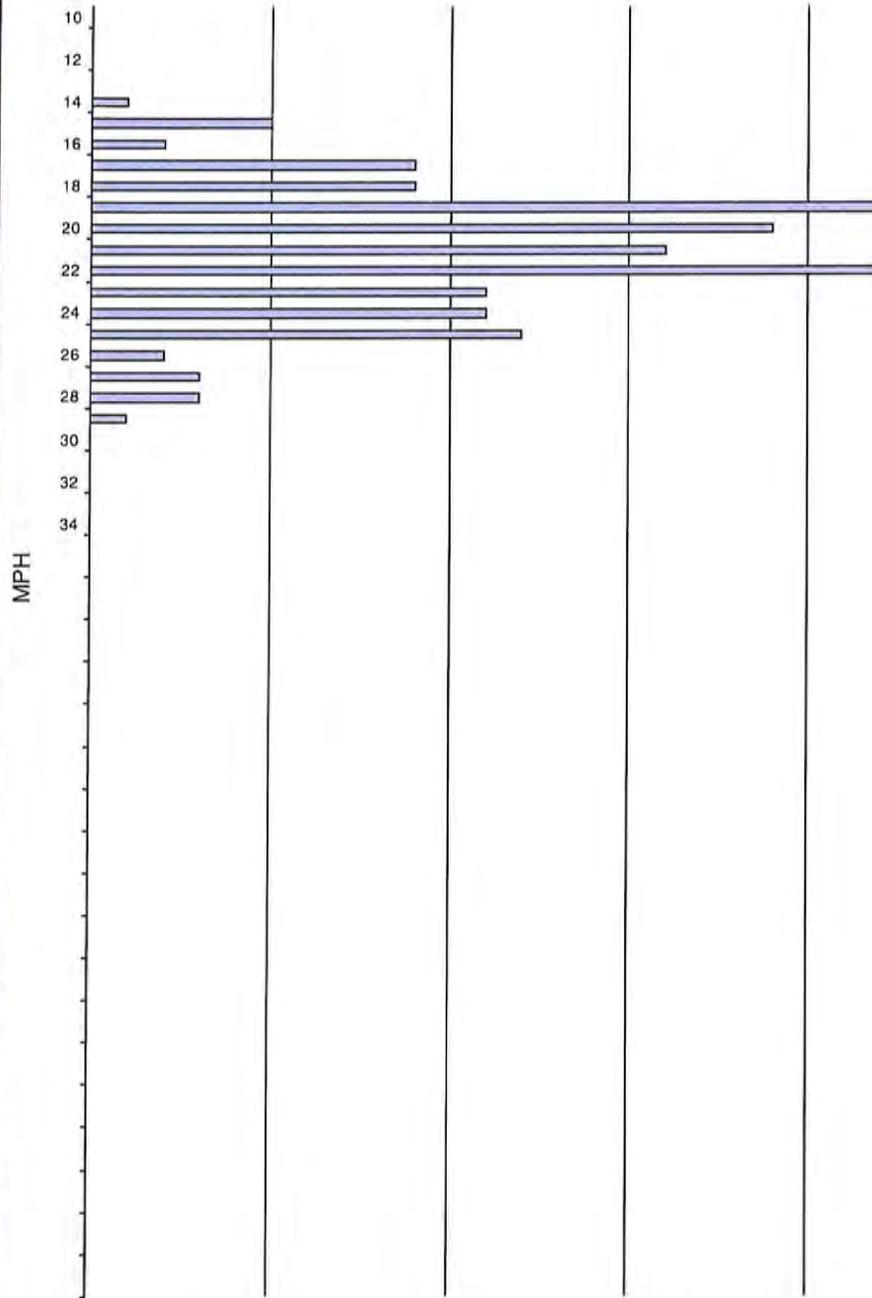
DATE: 1/29/20
TIME: 13:15-14:15

Location: 202 Capitola Ave
Posted Speed: 25 MPH Clear/Dry

Project #: 20-8004-044

Northbound & Southbound Spot Speeds

Speed mph	ALL Vehicles
<=10	
11	
12	
13	
14	1
15	5
16	2
17	9
18	9
19	22
20	19
21	16
22	22
23	11
24	11
25	12
26	2
27	3
28	3
29	1
30	
31	
32	
33	
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>=70	



SPEED PARAMETERS									
Class	Count	Range	50th Percentile	85th Percentile	10 MPH Pace	# in Pace	Percent in Pace	% / # Below Pace	% / # Above Pace
ALL	148	14 - 29	21 mph	24 mph	16 - 25	133	90%	4% / 6	7% / 9



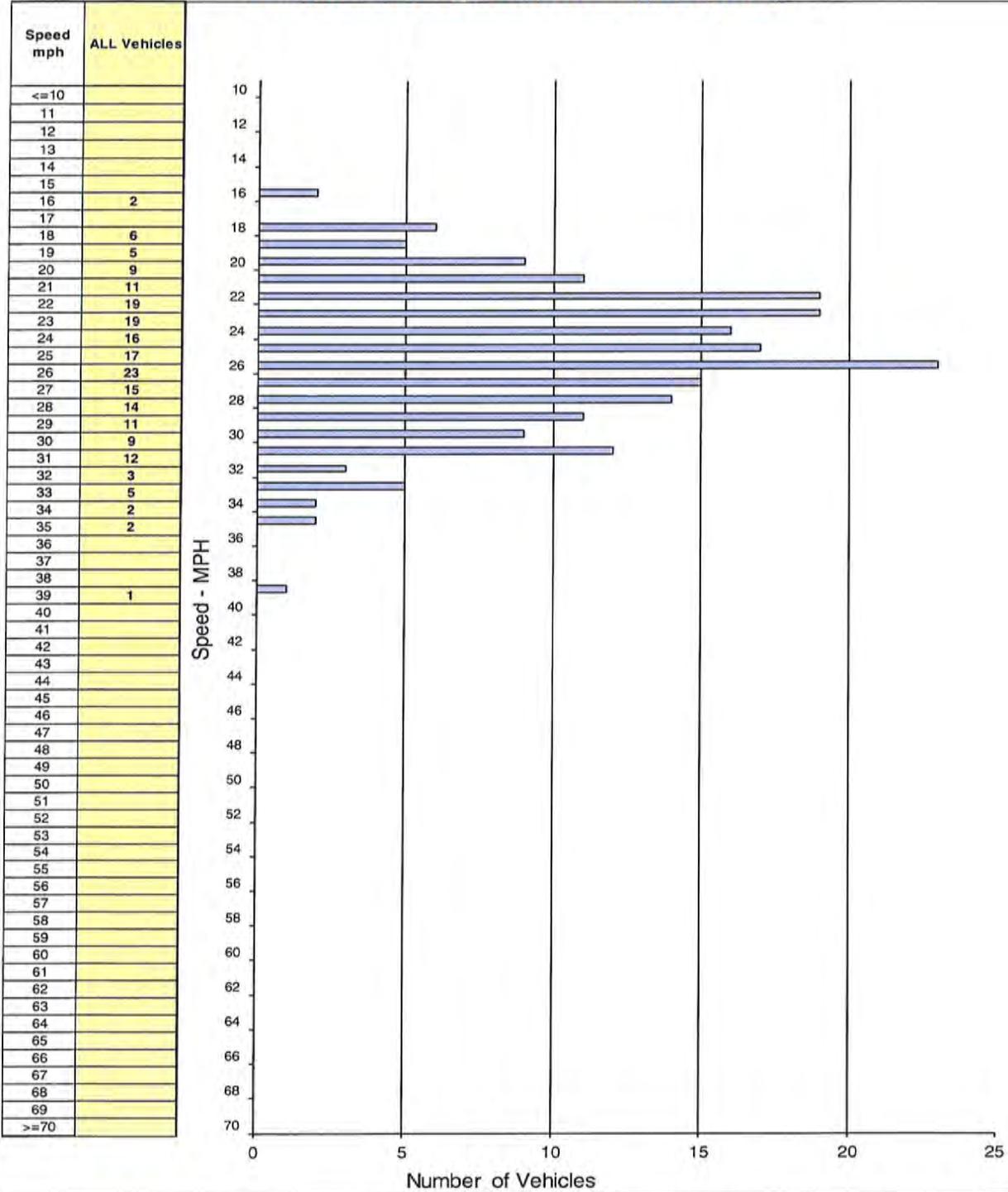
Street:	Capitola Road
Limits:	Between 30 th and Clares Street
Direction:	EB & WB
Factors	
A. <u>Prevailing Speed Data</u>	
Location of Survey	Capitola Rd @ Shirley Ln
Date of Survey	1/6/2020
Posted Speed Limit (mph)	25
# Speed Data Collected	201
85 th Percentile (mph)	30
10 mph Pace	22-31
Percent in Pace	77%
B. <u>Traffic Factors</u>	
Width	26'
Length of Segment (mi.)	0.06
Street Classification	Other Principal Arterial
C. <u>Collision History</u>	
Date Range Covered	1/1/2017-12/31/2019
Total Accidents	Five total collisions, two injury
D. <u>Roadway Conditions</u>	
Adjacent Land Use	Adjacent land use is primarily residential with the Landing Apartments and homes on Capitola Rd.
Roadway Geometrics	Four-Lane divided roadways with raised medians and bike lanes sidewalks are present on the north side and south side of the roadway. A signalized intersection has a turn pocket and a crosswalk.
Comments	After evaluating current critical and pace speeds, it is recommended that a 25-mph speed limit be implemented to be in concurrence with section 2B.13 of the MUTCD. The 25-mph speed limit was obtained by a 5-mph reduction of the critical speed of 30 mph due to the number of access points, Residential district density (as defined in section 515), and pedestrian and bicyclist safety.
Speed Limit Change?	No
Existing Speed Limit: 25 MPH	Recommended Speed Limit: 25 MPH
This Survey conforms to section 627 and 40802 of the California Vehicle Code section 2B.13 of the California MUTCD and recommends a speed limit appropriate to facilitate the safe and orderly movement of traffic.	
Approved and Authorized for release by the City of Capitola Public Works:	
Signed: 	Title: City Engineer
Steven E. Jesberg	

City of Capitola

DATE: 1/6/2020
TIME: 11:30-12:10

Location: Capitola Rd @ Shirley Ln
Posted Speed: 25 MPH Clear/Dry Project #: 20-8004-001

Eastbound & Westbound Spot Speeds



SPEED PARAMETERS									
Class	Count	Range	50th Percentile	85th Percentile	10 MPH Pace	# In Pace	Percent In Pace	% / # Below Pace	% / # Above Pace
ALL	201	16 - 39	25 mph	30 mph	22 - 31	155	77%	16% / 33	7% / 13



Street: Capitola Road
Limits: Between Clares St. and 38th Ave
Direction: EB & WB

Factors

A. Prevailing Speed Data

Location of Survey	3780 Capitola Rd
Date of Survey	1/6/2020
Posted Speed Limit (mph)	25
# Speed Data Collected	214
85 th Percentile (mph)	29 mph
10 mph Pace	19-28
Percent in Pace	66%

B. Traffic Factors

Width	26' EB 26 WB
Length of Segment (mi.)	0.13
Street Classification	Other Principal Arterial

C. Collision History

Date Range Covered	1/1/2017-12/31/2019
Total Accidents	Three total collisions

D. Roadway Conditions

Adjacent Land Use	Adjacent land use is primarily a business district with Capitola Mall.
Roadway Geometrics	Four-lane divided roadway with raised medians and bike lanes sidewalks are present on the north and south side of the roadway. Signalized intersection has turn pockets and crosswalks.
Comments	After evaluating current critical and pace speeds, it is recommended that a 25-mph speed limit be implemented to be in concurrence with section 2B.13 of the MUTCD and 21400(b).

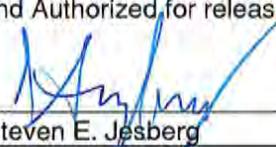
Speed Limit Change? No

Existing Speed Limit: 25 MPH

Recommended Speed Limit: 25 MPH

This Survey conforms to section 627 and 40802 of the California Vehicle Code section 2B.13 of the California MUTCD and recommends a speed limit appropriate to facilitate the safe and orderly movement of traffic.

Approved and Authorized for release by the City of Capitola Public Works:

Signed:  **Title:** City Engineer
 Steven E. Jesberg

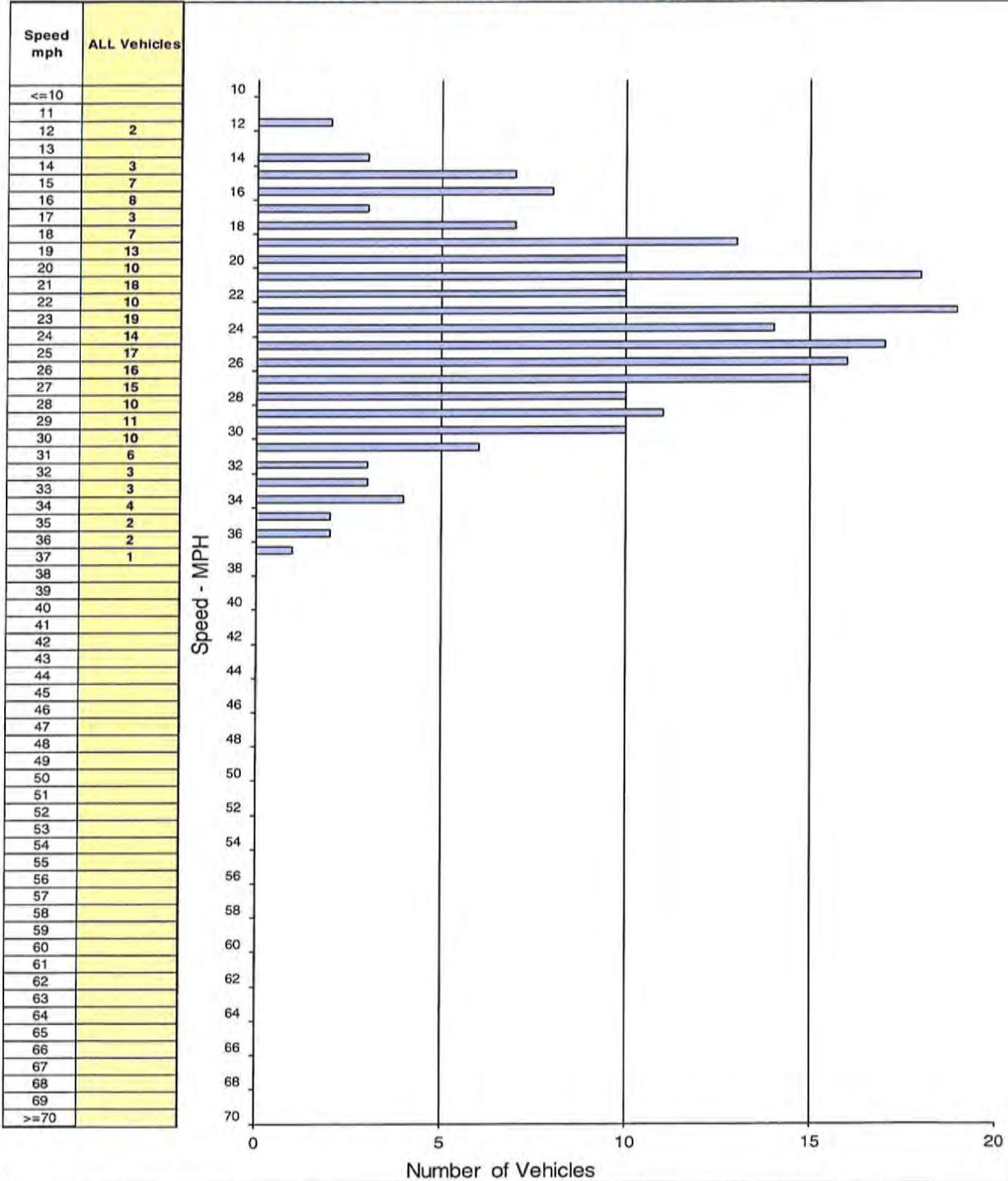
City of Capitola

DATE: 1/6/2020
 TIME: 12:20-13:10

Location: 3780 Capitola Rd
 Posted Speed: 25 MPH Clear/Dry

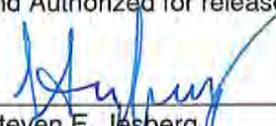
Project #: 20-8004-002

Eastbound & Westbound Spot Speeds



SPEED PARAMETERS									
Class	Count	Range	50th Percentile	85th Percentile	10 MPH Pace	# In Pace	Percent in Pace	% / # Below Pace	% / # Above Pace
ALL	214	12 - 37	24 mph	29 mph	19 - 28	142	66%	14% / 30	20% / 42



Street:	Capitola Road	
Limits:	Between 38 th Ave and 41 st Ave	
Direction:	EB & WB	
Factors		
A. <u>Prevailing Speed Data</u>		
Location of Survey	3908 Capitola Rd	
Date of Survey	1/6/2020	
Posted Speed Limit (mph)	25 mph	
# Speed Data Collected	239	
85 th Percentile (mph)	27 mph	
10 mph Pace	19-28	
Percent in Pace	56%	
B. <u>Traffic Factors</u>		
Width	26'	
Length of Segment (mi.)	0.14	
Street Classification	Other Principal Arterial	
C. <u>Collision History</u>		
Date Range Covered	1/1/2017-12/31/2019	
Total Accidents	Five total collisions, one injury	
D. <u>Roadway Conditions</u>		
Adjacent Land Use	Adjacent land use is primarily a business district with Capitola Mall.	
Roadway Geometrics	Four-lane divided roadway with raised medians and bike lanes sidewalks are present on the north and south side of the roadway. Signalized intersection has turn pockets and crosswalks.	
Comments	Results of the attached engineering & traffic survey information support maintaining the existing 25 mph speed limit.	
Speed Limit Change?	No	
Existing Speed Limit: 25 MPH	Recommended Speed Limit: 25 MPH	
<p>This Survey conforms to section 627 and 40802 of the California Vehicle Code section 2B.13 of the California MUTCD and recommends a speed limit appropriate to facilitate the safe and orderly movement of traffic.</p> <p>Approved and Authorized for release by the City of Capitola Public Works:</p>		
Signed:	 Steven E. Jesberg	Title: City Engineer

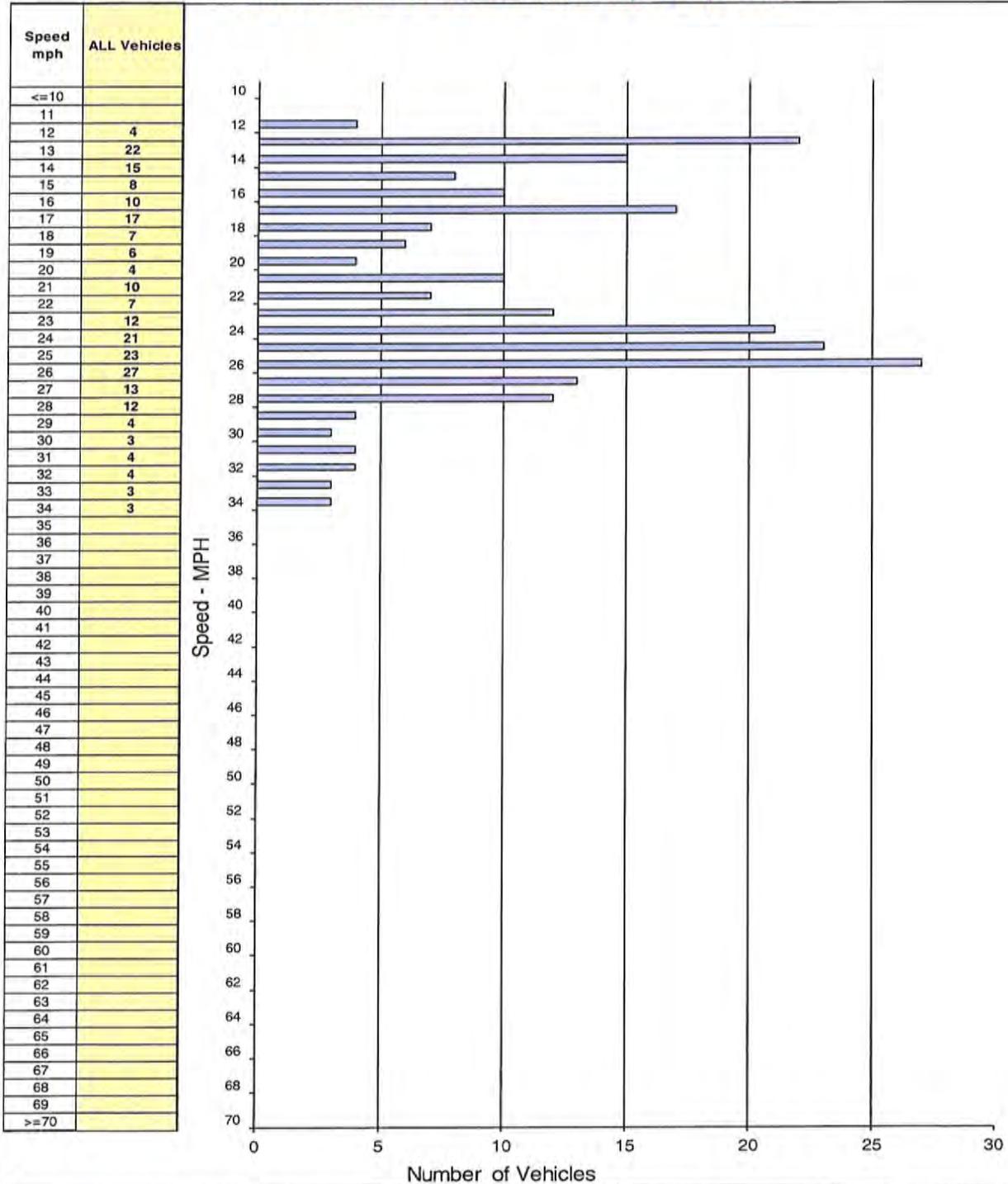
City of Capitola

DATE: 1/6/2020
TIME: 13:15-14:00

Location: 3908 Capitola Rd
Posted Speed: 25 MPH Clear/Dry

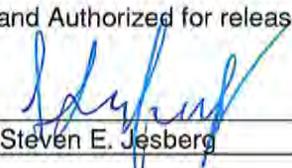
Project #: 20-8004-003

Eastbound & Westbound Spot Speeds



SPEED PARAMETERS									
Class	Count	Range	50th Percentile	85th Percentile	10 MPH Pace	# in Pace	Percent in Pace	% / # Below Pace	% / # Above Pace
ALL	239	12 - 34	23 mph	27 mph	19 - 28	135	56%	34% / 83	9% / 21



Street:	Capitola Road	
Limits:	Between 41 st Ave and 45 th Ave	
Direction:	EB & WB	
Factors		
A. <u>Prevailing Speed Data</u>		
Location of Survey	4245 Capitola Rd	
Date of Survey	1/6/2020	
Posted Speed Limit (mph)	25 mph	
# Speed Data Collected	212	
85 th Percentile (mph)	31 mph	
10 mph Pace	23-32	
Percent in Pace	79%	
B. <u>Traffic Factors</u>		
Average Daily Traffic (ADT)	33' EB 36' WB	
Length of Segment (mi.)	0.28	
Street Classification	Other Principal Arterial	
C. <u>Collision History</u>		
Date Range Covered	1/1/2017-12/31/2019	
Total Accidents	12 total collisions, three injury	
D. <u>Roadway Conditions</u>		
Adjacent Land Use	Adjacent land use is primarily a business district with some residential.	
Roadway Geometrics	Four-lane divided roadway with raised medians and bike lanes sidewalks are present on the north and south side of the roadway. Signalized intersection has turn pockets and crosswalks.	
Comments	After evaluating current critical and pace speeds, it is recommended that a 25-mph speed limit be implemented to be in concurrence with section 2B.13 of the MUTCD and 21400(b) due to the presence of two crosswalks across Capitola Road that are only protected by flashing beacons.	
Speed Limit Change?	No	
Existing Speed Limit: 25 MPH	Recommended Speed Limit: 25 MPH	
This Survey conforms to section 627 and 40802 of the California Vehicle Code section 2B.13 of the California MUTCD and recommends a speed limit appropriate to facilitate the safe and orderly movement of traffic.		
Approved and Authorized for release by the City of Capitola Public Works:		
Signed:	Title: City Engineer	
		
Steven E. Jesberg		

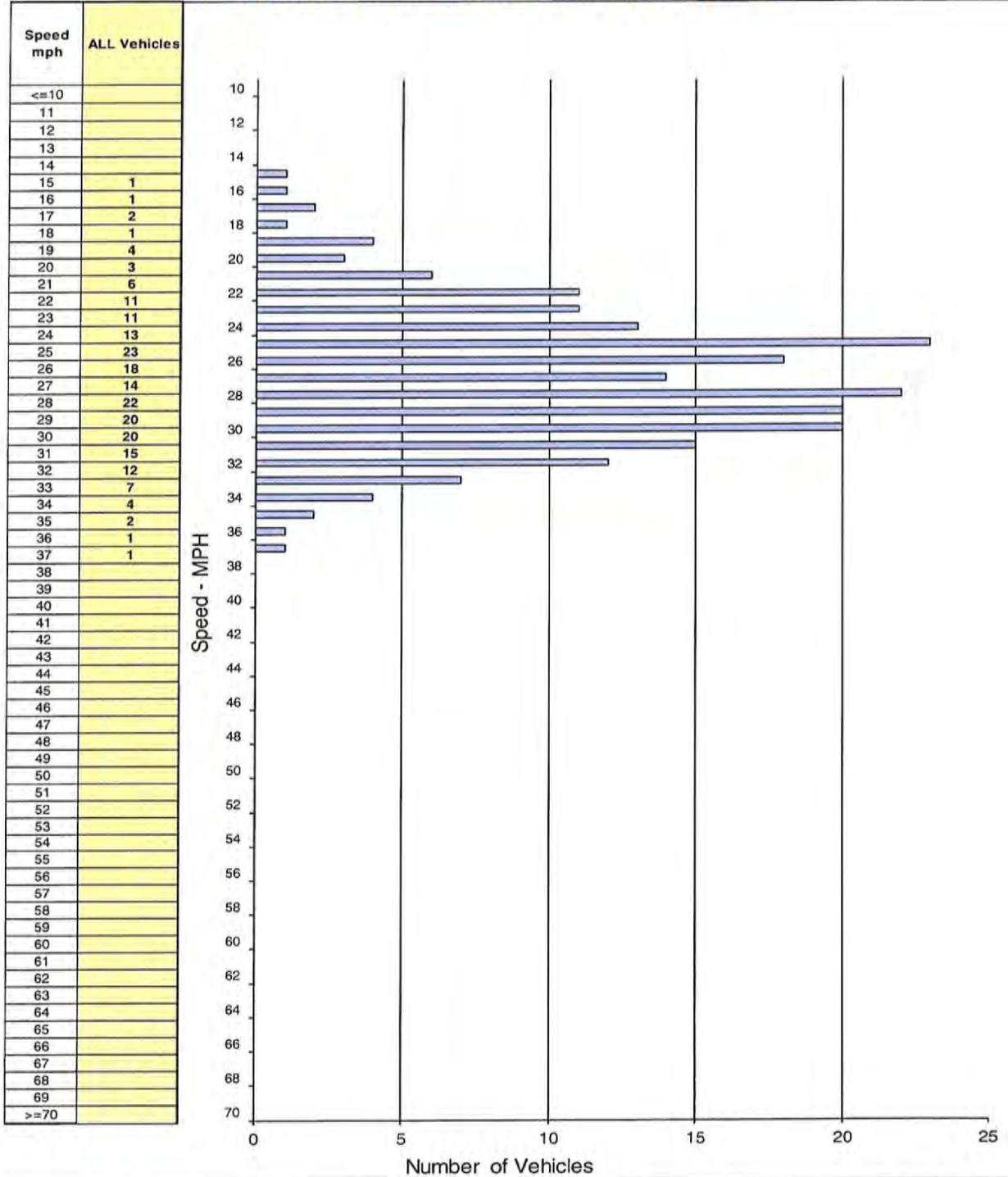
City of Capitola

DATE: 1/6/2020
TIME: 14:30-15:10

Location: 4245 Capitola Rd
Posted Speed: 25 MPH Clear/Dry

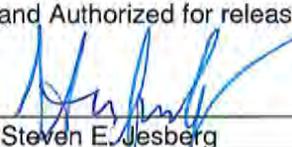
Project #: 20-8004-004

Eastbound & Westbound Spot Speeds



SPEED PARAMETERS									
Class	Count	Range	50th Percentile	85th Percentile	10 MPH Pace	# in Pace	Percent In Pace	% / # Below Pace	% / # Above Pace
ALL	212	15 - 37	27 mph	31 mph	23 - 32	168	79%	13% / 29	8% / 15



Street:	Capitola Road	
Limits:	Between 45 th Ave and 49 th Ave	
Direction:	EB & WB	
Factors		
A. <u>Prevailing Speed Data</u>		
Location of Survey	4830 Capitola Rd	
Date of Survey	1/6/2020	
Posted Speed Limit (mph)	25 mph	
# Speed Data Collected	243	
85 th Percentile (mph)	26 mph	
10 mph Pace	18-27	
Percent in Pace	89%	
B. <u>Traffic Factors</u>		
Width	38'	
Length of Segment (mi.)	0.19	
Street Classification	Other Principal Arterial	
C. <u>Collision History</u>		
Date Range Covered	1/1/2017-12/31/2019	
Total Accidents	Twelve total collisions, four injuries	
D. <u>Roadway Conditions</u>		
Adjacent Land Use	Adjacent land use is a primarily residential district.	
Roadway Geometrics	Two-lane roadway with bike lanes sidewalks is present on the north and south side of the roadway. Signed intersections have turn pockets and crosswalks.	
Comments	Results of the attached engineering & traffic survey information support maintaining the existing 25 mph speed limit.	
Speed Limit Change?	No	
Existing Speed Limit: 25 MPH		Recommended Speed Limit: 25 MPH
<p>This Survey conforms to section 627 and 40802 of the California Vehicle Code section 2B.13 of the California MUTCD and recommends a speed limit appropriate to facilitate the safe and orderly movement of traffic.</p> <p>Approved and Authorized for release by the City of Capitola Public Works:</p>		
Signed:	 Steven E. Jesberg	Title: City Engineer

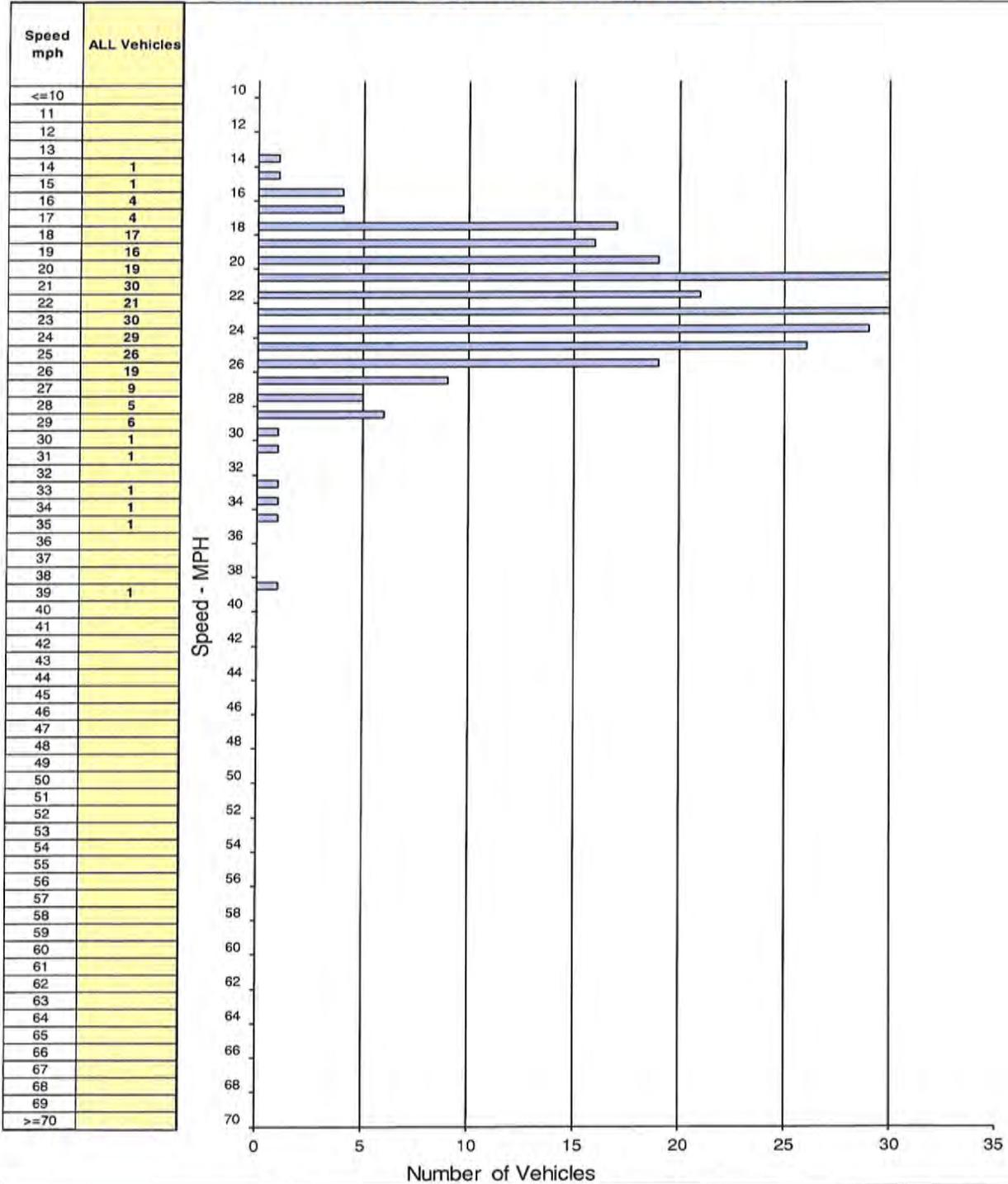
City of Capitola

DATE: 1/6/2020
 TIME: 15:15-16:00

Location: 4830 Capitola Rd
 Posted Speed: 25 MPH Clear/Dry

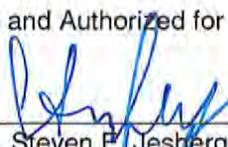
Project #: 20-8004-005

Eastbound & Westbound Spot Speeds



SPEED PARAMETERS									
Class	Count	Range	50th Percentile	85th Percentile	10 MPH Pace	# In Pace	Percent in Pace	% / # Below Pace	% / # Above Pace
ALL	243	14 - 39	23 mph	26 mph	18 - 27	216	89%	4% / 10	7% / 17



Street:	Clares Street	
Limits:	Between Capitola Rd Ave & 40 th Ave	
Direction:	EB & WB	
Factors		
A. <u>Prevailing Speed Data</u>		
Location of Survey	Clares St 1200' N/O Capitola Rd	
Date of Survey	1/24/2020	
Posted Speed Limit (mph)	25 mph	
# Speed Data Collected	225	
85 th Percentile (mph)	29 mph	
10 mph Pace	18-27	
Percent in Pace	68%	
B. <u>Traffic Factors</u>		
Width	46	
Length of Segment (mi.)	0.48	
Street Classification	Major Collector	
C. <u>Collision History</u>		
Date Range Covered	1/1/2017-12/31/2019	
Total Accidents	11 total collisions, one injury	
D. <u>Roadway Conditions</u>		
Adjacent Land Use	Adjacent land use is generally commercial with Capitola Mall, Browns Ranch Complex, and a residential district with one substantial Assisted living complex.	
Roadway Geometrics	Two-lane divided roadway with raised Medians and bike lanes. Sidewalks are present on the North and South of the roadway. Signalized intersection has turn pockets and crosswalks.	
Comments	After evaluating current critical and pace speeds, it is recommended that a 25-mph speed limit be implemented to be in concurrence with section 2B.13 of the MUTCD. The 25-mph speed limit was obtained by a 5-mph reduction of the critical speed of 30 mph due to the number of access points, collisions data, and pedestrian and bicyclist safety and the presence of multiple driveways and a horizontal curve that restricts sight distances.	
Speed Limit Change?	No	
Existing Speed Limit: 25 MPH		Recommended Speed Limit: 25 MPH
This Survey conforms to section 627 and 40802 of the California Vehicle Code section 2B.13 of the California MUTCD and recommends a speed limit appropriate to facilitate the safe and orderly movement of traffic.		
Approved and Authorized for release by the City of Capitola Public Works:		
Signed:		Title: City Engineer
	Steven E. Jesberg	

City of Capitola

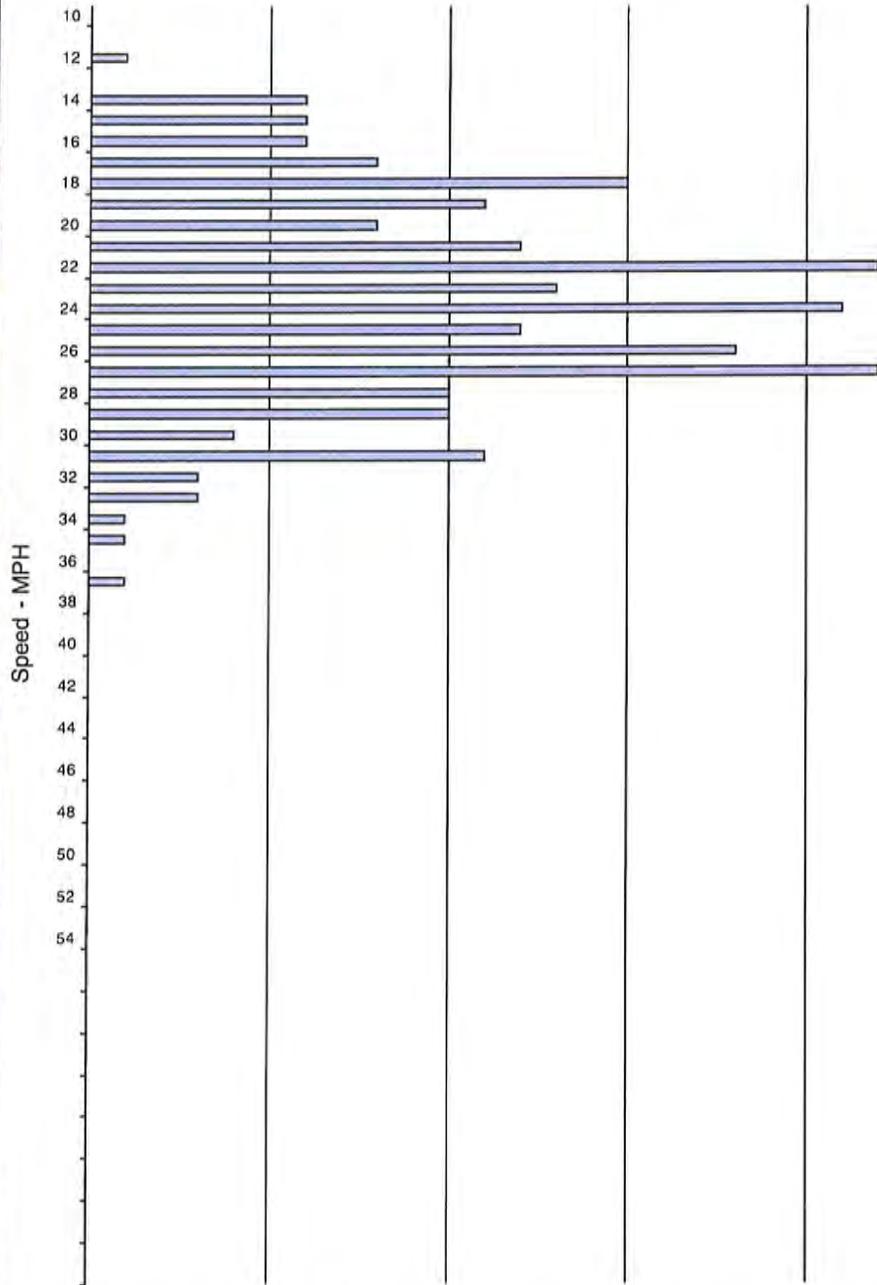
DATE: 1/24/20
TIME: 10:30-11:25

Location: Clares St 1200' N/O Capitola Rd
Posted Speed: 25 MPH Clear/Dry

Project #: 20-8004-008

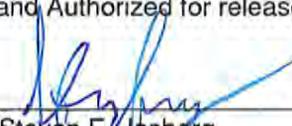
Eastbound & Westbound Spot Speeds

Speed mph	ALL Vehicles
<=10	
11	
12	1
13	
14	6
15	6
16	6
17	8
18	15
19	11
20	8
21	12
22	22
23	13
24	21
25	12
26	18
27	22
28	10
29	10
30	4
31	11
32	3
33	3
34	1
35	1
36	
37	1
38	
39	
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>=70	



SPEED PARAMETERS									
Class	Count	Range	50th Percentile	85th Percentile	10 MPH Pace	# in Pace	Percent in Pace	% / # Below Pace	% / # Above Pace
ALL	225	12 - 37	24 mph	29 mph	18 - 27	154	68%	12% / 27	20% / 44



Street:	Clares Street	
Limits:	Between 40 th Ave & 41st Ave	
Direction:	EB & WB	
Factors		
A. <u>Prevailing Speed Data</u>		
Location of Survey	Clares St 125' W/O 41 st Ave	
Date of Survey	1/23/2020	
Posted Speed Limit (mph)	25 mph	
# Speed Data Collected	167	
85 th Percentile (mph)	22 mph	
10 mph Pace	15-24	
Percent in Pace	88%	
B. <u>Traffic Factors</u>		
Width	54'	
Length of Segment (mi.)	0.05	
Street Classification	Major Collector	
C. <u>Collision History</u>		
Date Range Covered	1/1/2017-12/31/2019	
Total Accidents	Nine total collisions, one injury	
D. <u>Roadway Conditions</u>		
Adjacent Land Use	Adjacent land use is generally commercial with Capitola Mall, Browns Ranch Complex.	
Roadway Geometrics	Two-to-five lane divided roadway with no bike lanes and sidewalks are present on the north and south of the roadway. Signalized intersection has turn pockets and crosswalks.	
Comments	Results of the attached engineering & traffic survey information support maintaining the existing 25 mph speed limit.	
Speed Limit Change?	No	
Existing Speed Limit: 25 MPH	Recommended Speed Limit: 25 MPH	
This Survey conforms to section 627 and 40802 of the California Vehicle Code section 2B.13 of the California MUTCD and recommends a speed limit appropriate to facilitate the safe and orderly movement of traffic.		
Approved and Authorized for release by the City of Capitola Public Works:		
Signed:		Title: City Engineer
	Steven E. Jesberg	

City of Capitola

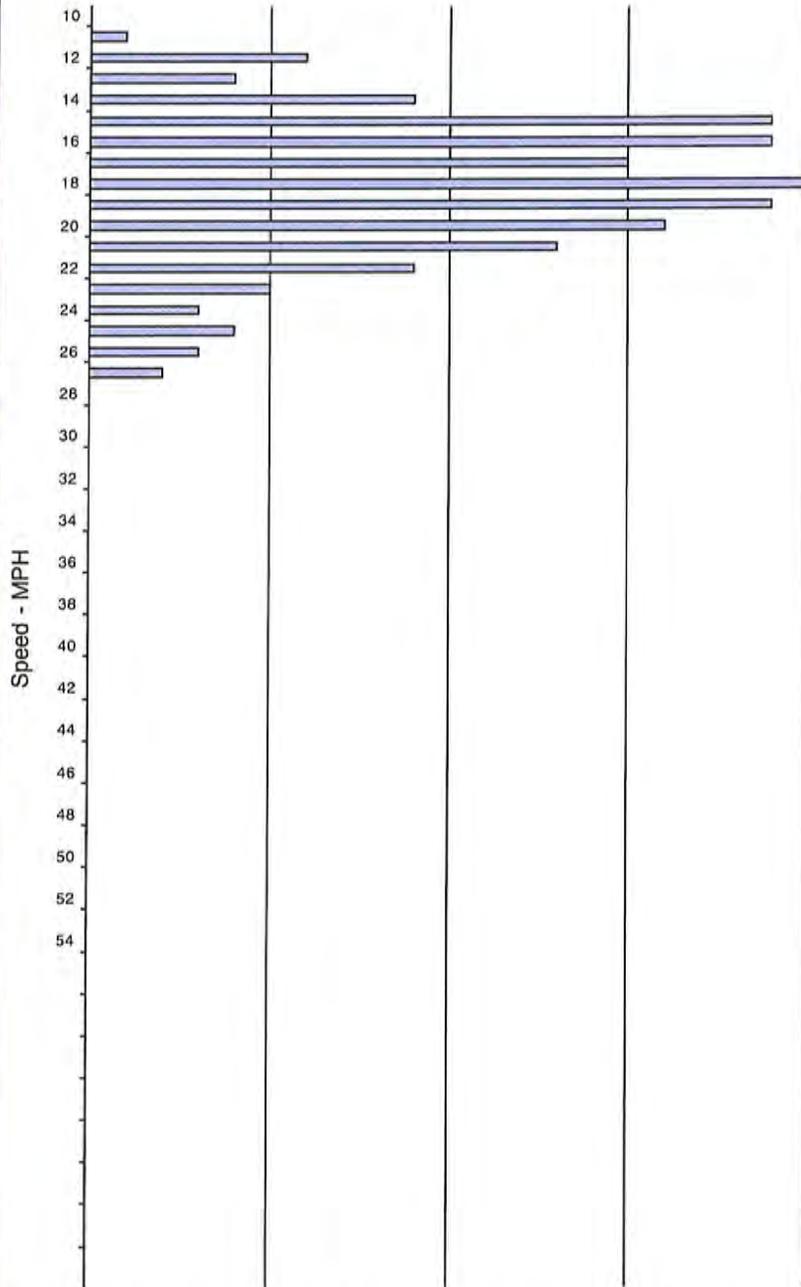
DATE: 1/23/20
TIME: 09:40-10:40

Location: Clares St 125' W/O 41st Ave
Posted Speed: 25 MPH Clear/Dry

Project #: 20-8004-009

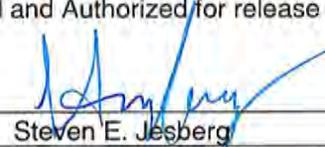
Eastbound & Westbound Spot Speeds

Speed mph	ALL Vehicles
<=10	
11	1
12	6
13	4
14	9
15	19
16	19
17	15
18	20
19	19
20	16
21	13
22	9
23	5
24	3
25	4
26	3
27	2
28	
29	
30	
31	
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33	
34	
35	
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>=70	



SPEED PARAMETERS									
Class	Count	Range	50th Percentile	85th Percentile	10 MPH Pace	# In Pace	Percent in Pace	% / # Below Pace	% / # Above Pace
ALL	167	11 - 27	18 mph	22 mph	15 - 24	147	88%	11% / 20	0% / 0



Street:	Clares Street	
Limits:	Between 41st Ave & Wharf Rd	
Direction:	EB & WB	
Factors		
A. <u>Prevailing Speed Data</u>		
Location of Survey	4194 Clares St	
Date of Survey	1/23/2020	
Posted Speed Limit (mph)	25 mph	
# Speed Data Collected	138	
85 th Percentile (mph)	31 mph	
10 mph Pace	22-31	
Percent in Pace	78%	
B. <u>Traffic Factors</u>		
Width	50'	
Length of Segment (mi.)	0.39	
Street Classification	Major Collector	
C. <u>Collision History</u>		
Date Range Covered	1/1/2017-12/31/2019	
Total Accidents	Four total collisions	
D. <u>Roadway Conditions</u>		
Adjacent Land Use	Adjacent land use is generally commercial with Capitola Mall, a residential district with substantial Apartments complexes, and a substantial Senior Mobile home park.	
Roadway Geometrics	Two-lane divided roadway with bike lanes and sidewalks are present on the north and south of the roadway. Signalized intersection has turn pockets and crosswalks. The segment features a steady incline at either end.	
Comments	After evaluating current critical and pace speeds, it is recommended that a 25-mph speed limit be implemented to be in concurrence with section 2B.13 of the MUTCD. The 25-mph speed limit was obtained by a 5-mph reduction of the critical speed of 30 mph due to the number of access points, Residential district density (as defined in section 515), pedestrian and bicyclist safety and road geometry that includes a vertical curve that restricts sight distance.	
Speed Limit Change?	No	
Existing Speed Limit: 25 MPH		Recommended Speed Limit: 25 MPH
This Survey conforms to section 627 and 40802 of the California Vehicle Code section 2B.13 of the California MUTCD and recommends a speed limit appropriate to facilitate the safe and orderly movement of traffic.		
Approved and Authorized for release by the City of Capitola Public Works:		
Signed:		Title: City Engineer
	Steven E. Jesberg	

City of Capitola

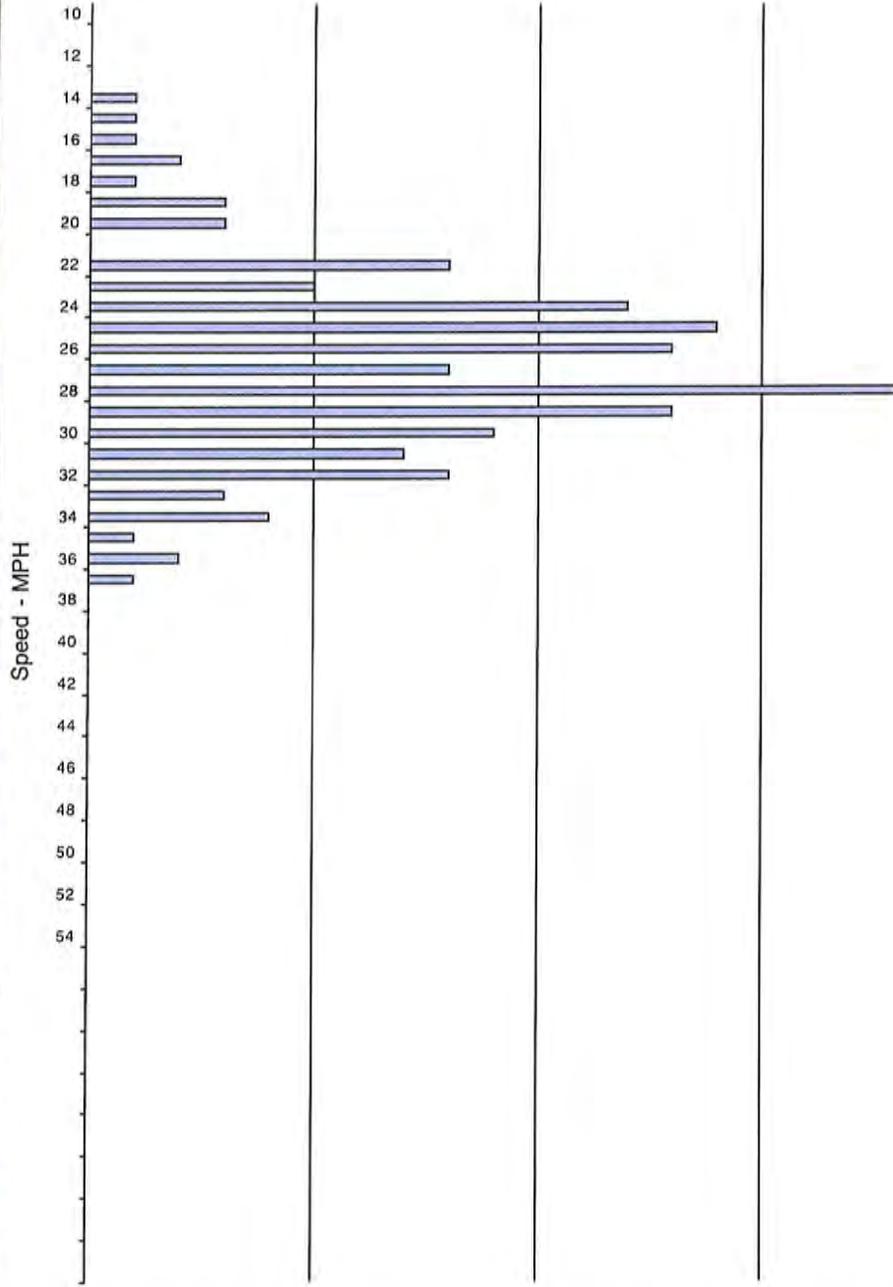
DATE: 1/23/20
TIME: 11:00-12:00

Location: 4194 Clares St
Posted Speed: 25 MPH Clear/Dry

Project #: 20-8004-010

Eastbound & Westbound Spot Speeds

Speed mph	ALL Vehicles
<=10	
11	
12	
13	
14	1
15	1
16	1
17	2
18	1
19	3
20	3
21	
22	8
23	5
24	12
25	14
26	13
27	8
28	18
29	13
30	9
31	7
32	8
33	3
34	4
35	1
36	2
37	1
38	
39	
40	
41	
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>=70	



SPEED PARAMETERS									
Class	Count	Range	50th Percentile	85th Percentile	10 MPH Pace	# in Pace	Percent in Pace	% / # Below Pace	% / # Above Pace
ALL	138	14 - 37	27 mph	31 mph	22 - 31	107	78%	8% / 12	14% / 19



Street:	Cliff Dr	
Limits:	Between Opal Cliff & Wharf Rd	
Direction:	EB & WB	
Factors		
A. <u>Prevailing Speed Data</u>		
Location of Survey	Cliff Dr 800' W/O Wharf Rd	
Date of Survey	1/14/2020	
Posted Speed Limit (mph)	25 mph	
# Speed Data Collected	203	
85 th Percentile (mph)	34 mph	
10 mph Pace	24-33	
Percent in Pace	86%	
B. <u>Traffic Factors</u>		
Width	33	
Length of Segment (mi.)	0.32	
Street Classification	Minor Arterial	
C. <u>Collision History</u>		
Date Range Covered	1/1/2017-12/31/2019	
Total Accidents	Six total collisions, One injury	
D. <u>Roadway Conditions</u>		
Adjacent Land Use	It is a primarily residential and business district with a substantial hotel in the area.	
Roadway Geometrics	Two-lane roadways. Limited sidewalks are present on the part of south the roadway. A pedestrian crosswalk is in the middle of the segment. The segment features a steady incline.	
Comments	After evaluating current critical and pace speeds, it is recommended that a 25-mph speed limit be implemented to be in concurrence with section 2B.13 of the MUTCD. The 25-mph speed limit was obtained by a 5-mph reduction of the critical speed of 35 mph due to the number of access points and residential district density (as defined in section 515). A second 5-mph deductin was applied due the presence of head in street parking that requires backing into the travel land and the presence of a high volume of pedestrian and bicyclist traffic going to the nearby Capitola Beach and Village.	
Speed Limit Change?	Yes	
Existing Speed Limit: 25 MPH		Recommended Speed Limit: 25 MPH
<p>This Survey conforms to section 627 and 40802 of the California Vehicle Code section 2B.13 of the California MUTCD and recommends a speed limit appropriate to facilitate the safe and orderly movement of traffic.</p> <p>Approved and Authorized for release by the City of Capitola Public Works:</p>		
Signed:		Title: City Engineer
Steven E. Jesberg		

City of Capitola

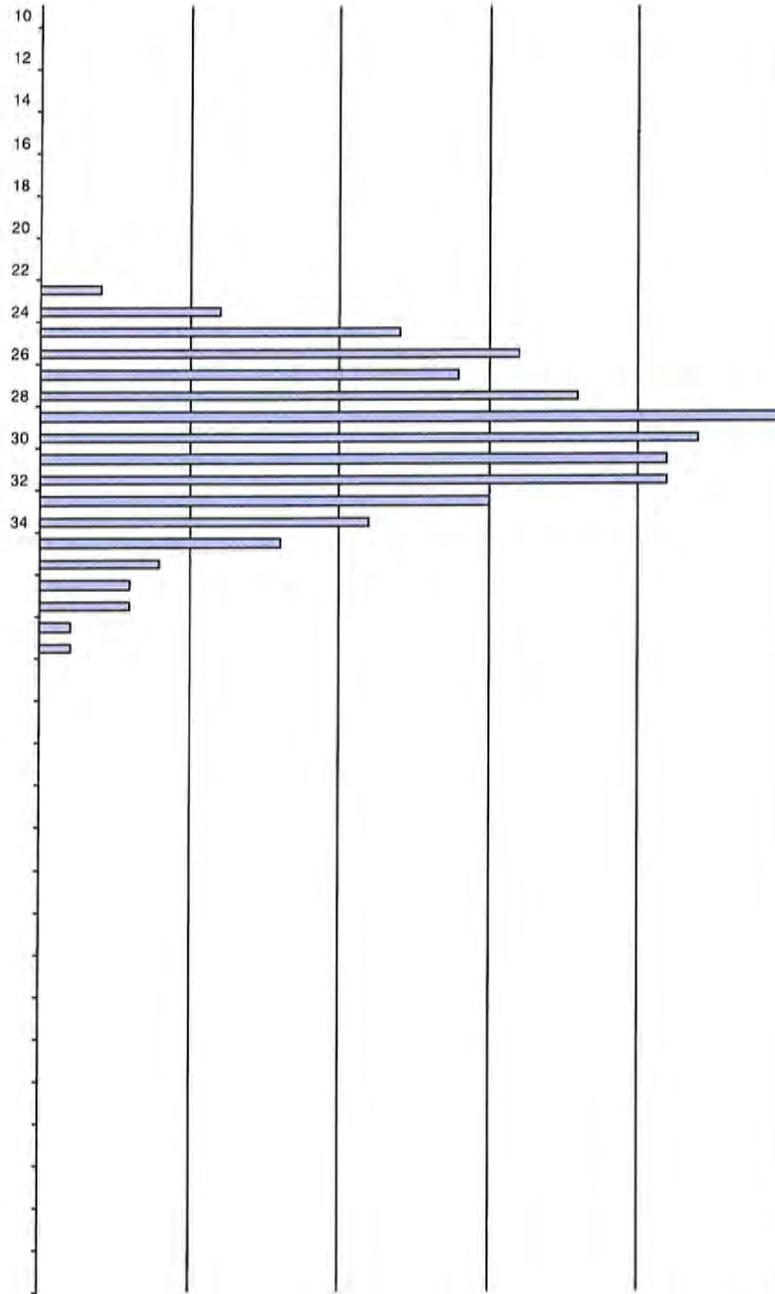
DATE: 1/14/20
TIME: 09:00-10:35

Location: Cliff Dr 800' W/O Wharf Rd
Posted Speed: 25 MPH Clear/Dry

Project #: 20-8004-030

Eastbound & Westbound Spot Speeds

Speed mph	ALL Vehicles
<=10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	
21	
22	
23	2
24	6
25	12
26	16
27	14
28	18
29	25
30	22
31	21
32	21
33	15
34	11
35	8
36	4
37	3
38	3
39	1
40	1
41	
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>=70	



SPEED PARAMETERS									
Class	Count	Range	50th Percentile	85th Percentile	10 MPH Pace	# in Pace	Percent In Pace	% / # Below Pace	% / # Above Pace
ALL	203	23 - 40	30 mph	34 mph	25 - 34	175	86%	3% / 8	10% / 20



Street: Jade St
Limits: Between 41st Ave & 45th Ave
Direction: EB & WB

Factors

A. Prevailing Speed Data

Location of Survey 4425 Jade St.
 Date of Survey 01/13/2020
 Posted Speed Limit (mph) 25
 # Speed Data Collected 107
 85th Percentile (mph) 27
 10 mph Pace 18-27
 Percent in Pace 80%

B. Traffic Factors

Width 39'
 Length of Segment (mi.) 0.27
 Street Classification Major Collector

C. Collision History

Date Range Covered 1/1/2017-12/31/2019
 Total Accidents Four total collisions, one injury

D. Roadway Conditions

Adjacent Land Use It is a primarily residential and business district with a substantial senior mobile home complex and a park in the area.

Roadway Geometrics Two-lane roadways. Sidewalks are present on the north side of the roadway. Two-speed tables on the roadway

Comments Results of the attached engineering & traffic survey information support maintaining the existing 25 mph speed limit.

Speed Limit Change? No

Existing Speed Limit: 25 MPH

Recommended Speed Limit: 25 MPH

This Survey conforms to section 627 and 40802 of the California Vehicle Code section 2B.13 of the California MUTCD and recommends a speed limit appropriate to facilitate the safe and orderly movement of traffic.

Approved and Authorized for release by the City of Capitola Public Works:

Signed: Steven E. Jesberg Title: City Engineer

City of Capitola

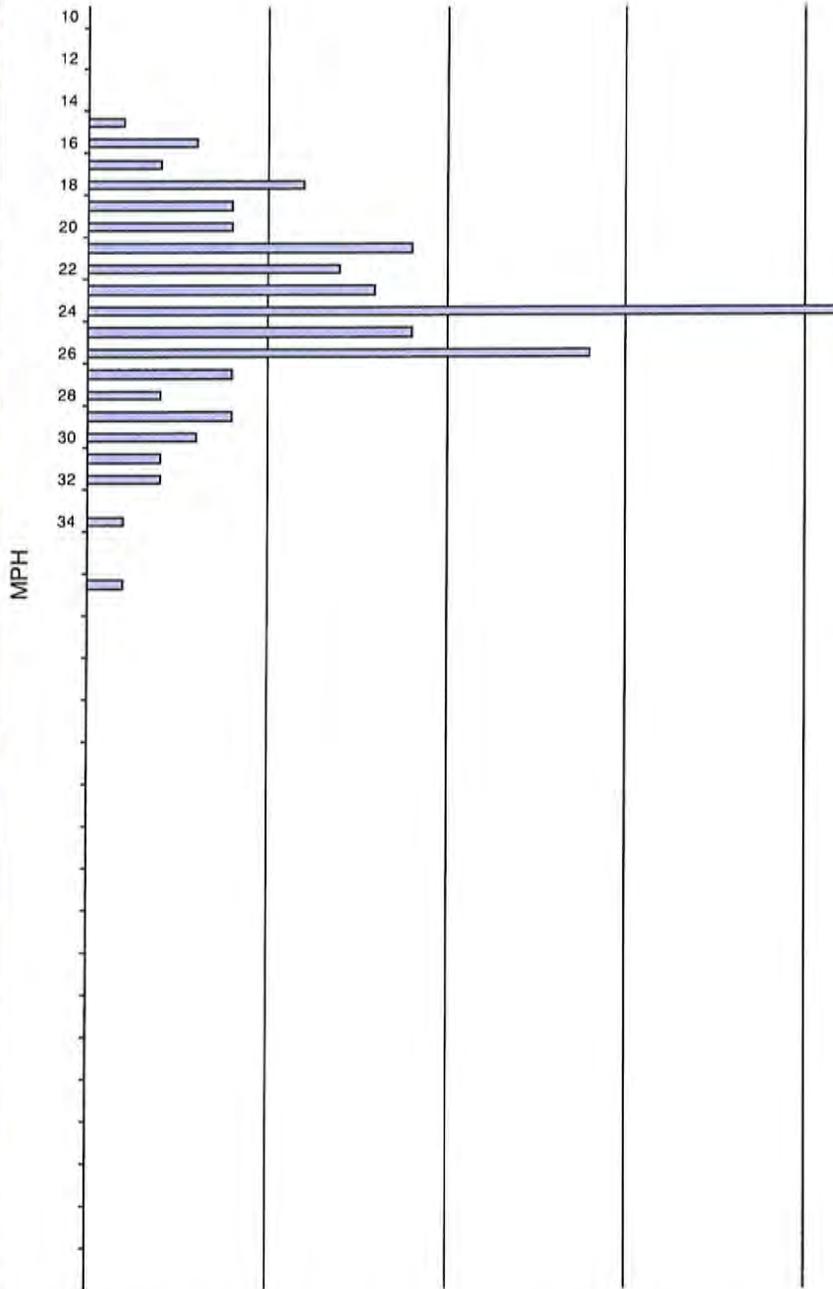
DATE: 1/13/20
TIME: 12:55-14:00

Location: 4425 Jade St
Posted Speed: 25 MPH Clear/Dry

Project #: 20-8004-015

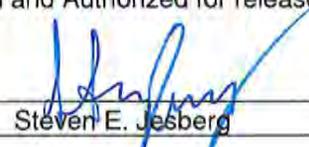
Eastbound & Westbound Spot Speeds

Speed mph	ALL Vehicles
<=10	
11	
12	
13	
14	
15	1
16	3
17	2
18	6
19	4
20	4
21	9
22	7
23	8
24	21
25	9
26	14
27	4
28	2
29	4
30	3
31	2
32	2
33	
34	1
35	
36	
37	1
38	
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>=70	



SPEED PARAMETERS									
Class	Count	Range	50th Percentile	85th Percentile	10 MPH Pace	# In Pace	Percent In Pace	% / # Below Pace	% / # Above Pace
ALL	107	15 - 37	24 mph	27 mph	18 - 27	86	80%	5% / 6	15% / 15



Street:	Kennedy Dr	
Limits:	Between Sir Francis Ave & Park Ave	
Direction:	EB &WB	
Factors		
A. <u>Prevailing Speed Data</u>		
Location of Survey	Kennedy Dr. 300' E/O Si Francis Ave.	
Date of Survey	01/15/2020	
Posted Speed Limit (mph)	25	
# Speed Data Collected	172	
85 th Percentile (mph)	31	
10 mph Pace	23-32	
Percent in Pace	93%	
B. <u>Traffic Factors</u>		
Width	40	
Length of Segment (mi.)	0.10	
Street Classification	Major Collector	
C. <u>Collision History</u>		
Date Range Covered	1/1/2017-12/31/2019	
Total Accidents	Three total collision	
D. <u>Roadway Conditions</u>		
Adjacent Land Use	Adjacent land use is Primarily Residential.	
Roadway Geometrics	Two-lane divided roadway with no bike lanes and sidewalks are not present. Stop sign intersection no turn pockets with crosswalks. The segment features a steady incline.	
Comments	After evaluating current critical and pace speeds, it is recommended that a 25-mph speed limit be implemented to be in concurrence with section 2B.13 of the MUTCD. The 25-mph speed limit was obtained by a 5-mph reduction of the critical speed of 30 mph due to the number of access points, Residential district density (as defined in section 515), and pedestrian and bicyclist safety.	
Speed Limit Change?	No	
Existing Speed Limit: 25 MPH		Recommended Speed Limit: 25 MPH
This Survey conforms to section 627 and 40802 of the California Vehicle Code section 2B.13 of the California MUTCD and recommends a speed limit appropriate to facilitate the safe and orderly movement of traffic.		
Approved and Authorized for release by the City of Capitola Public Works:		
Signed:		Title: City Engineer
	Steven E. Jesberg	

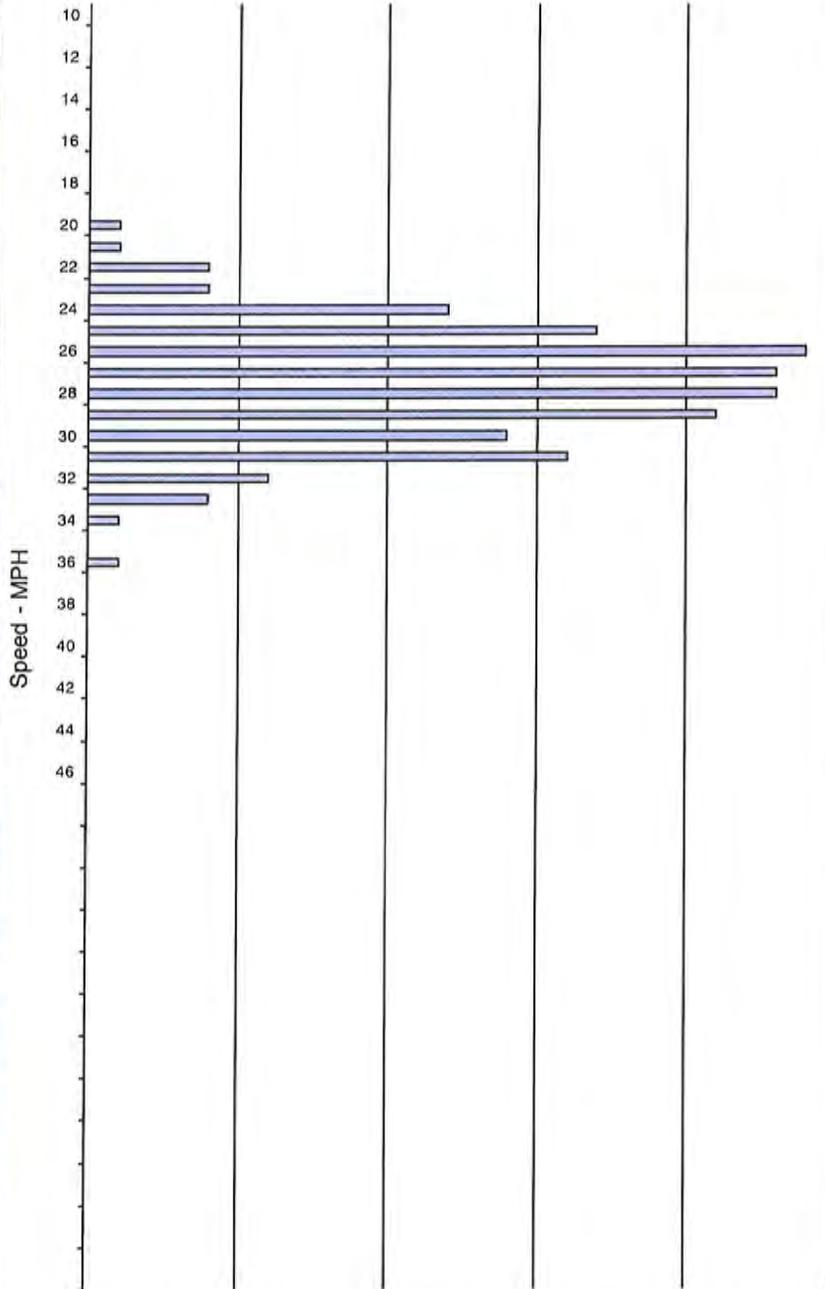
City of Capitola

DATE: 1/15/20
TIME: 12:05-13:05

Location: Kennedy Dr 300' E/O Sir Francis Ave
Posted Speed: 25 MPH Clear/Dry Project #: 20-8004-039

Eastbound & Westbound Spot Speeds

Speed mph	ALL Vehicles
<=10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	1
21	1
22	4
23	4
24	12
25	17
26	24
27	23
28	23
29	21
30	14
31	16
32	6
33	4
34	1
35	
36	1
37	
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>=70	



SPEED PARAMETERS									
Class	Count	Range	50th Percentile	85th Percentile	10 MPH Pace	# In Pace	Percent in Pace	% / # Below Pace	% / # Above Pace
ALL	172	20 - 36	27 mph	31 mph	23 - 32	160	93%	3% / 6	4% / 6



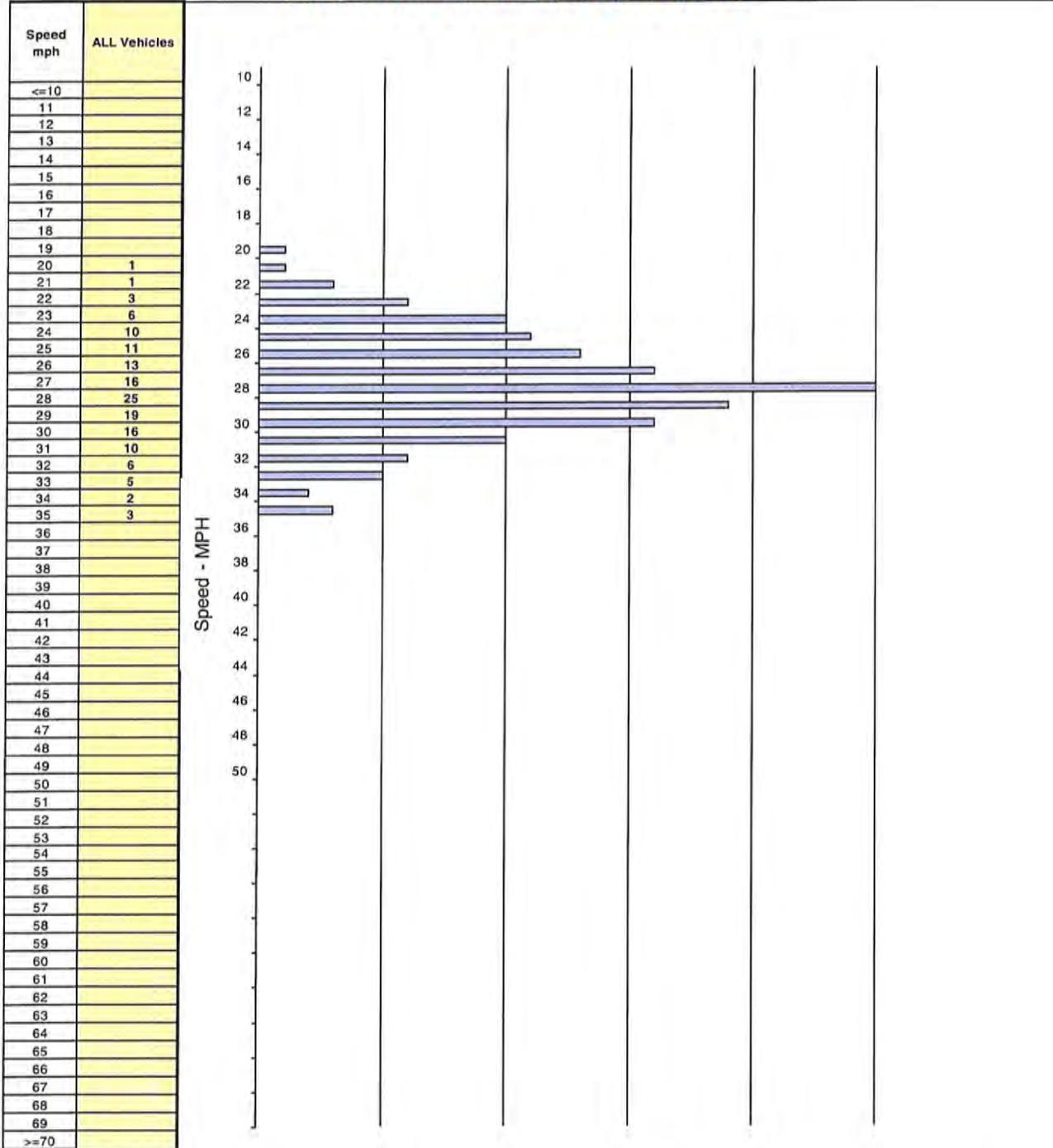
Street:	Kennedy Dr	
Limits:	Between Monterey Ave & Sir Francis Ave	
Direction:	EB & WB	
Factors		
A. <u>Prevailing Speed Data</u>		
Location of Survey	Kennedy Dr 150' W/O Callas Ln.	
Date of Survey	01/15/2020	
Posted Speed Limit (mph)	25	
# Speed Data Collected	147	
85 th Percentile (mph)	31	
10 mph Pace	23-32	
Percent in Pace	90%	
B. <u>Traffic Factors</u>		
Width	44'	
Length of Segment (mi.)	0.17	
Street Classification	Major Collector	
C. <u>Collision History</u>		
Date Range Covered	1/1/2017-12/31/2019	
Total Accidents	One total collision	
D. <u>Roadway Conditions</u>		
Adjacent Land Use	Adjacent land use is Primarily Residential.	
Roadway Geometrics	Two-lane divided roadway with no bike lanes with sidewalks are not present. Stop sign intersection no turn pockets with crosswalks.	
Comments	After evaluating current critical and pace speeds, it is recommended that a 25-mph speed limit be implemented to be in concurrence with section 2B.13 of the MUTCD. The 25-mph speed limit was obtained by a 5-mph reduction of the critical speed of 30 mph due to the number of access points, Residential district density (as defined in section 515), and pedestrian and bicyclist safety.	
Speed Limit Change?	No	
Existing Speed Limit: 25 MPH		Recommended Speed Limit: 25 MPH
<p>This Survey conforms to section 627 and 40802 of the California Vehicle Code section 2B.13 of the California MUTCD and recommends a speed limit appropriate to facilitate the safe and orderly movement of traffic.</p> <p>Approved and Authorized for release by the City of Capitola Public Works:</p>		
Signed:	 Steven E. Jesberg	Title: City Engineer

City of Capitola

DATE: 1/15/20
TIME: 11:00-12:00

Location: Kennedy Dr 150' W/O Callas Ln
Posted Speed: 25 MPH Clear/Dry Project #: 20-8004-038

Eastbound & Westbound Spot Speeds



SPEED PARAMETERS									
Class	Count	Range	50th Percentile	85th Percentile	10 MPH Pace	# In Pace	Percent in Pace	% / # Below Pace	% / # Above Pace
ALL	147	20 - 35	28 mph	31 mph	23 - 32	132	90%	3% / 5	7% / 10

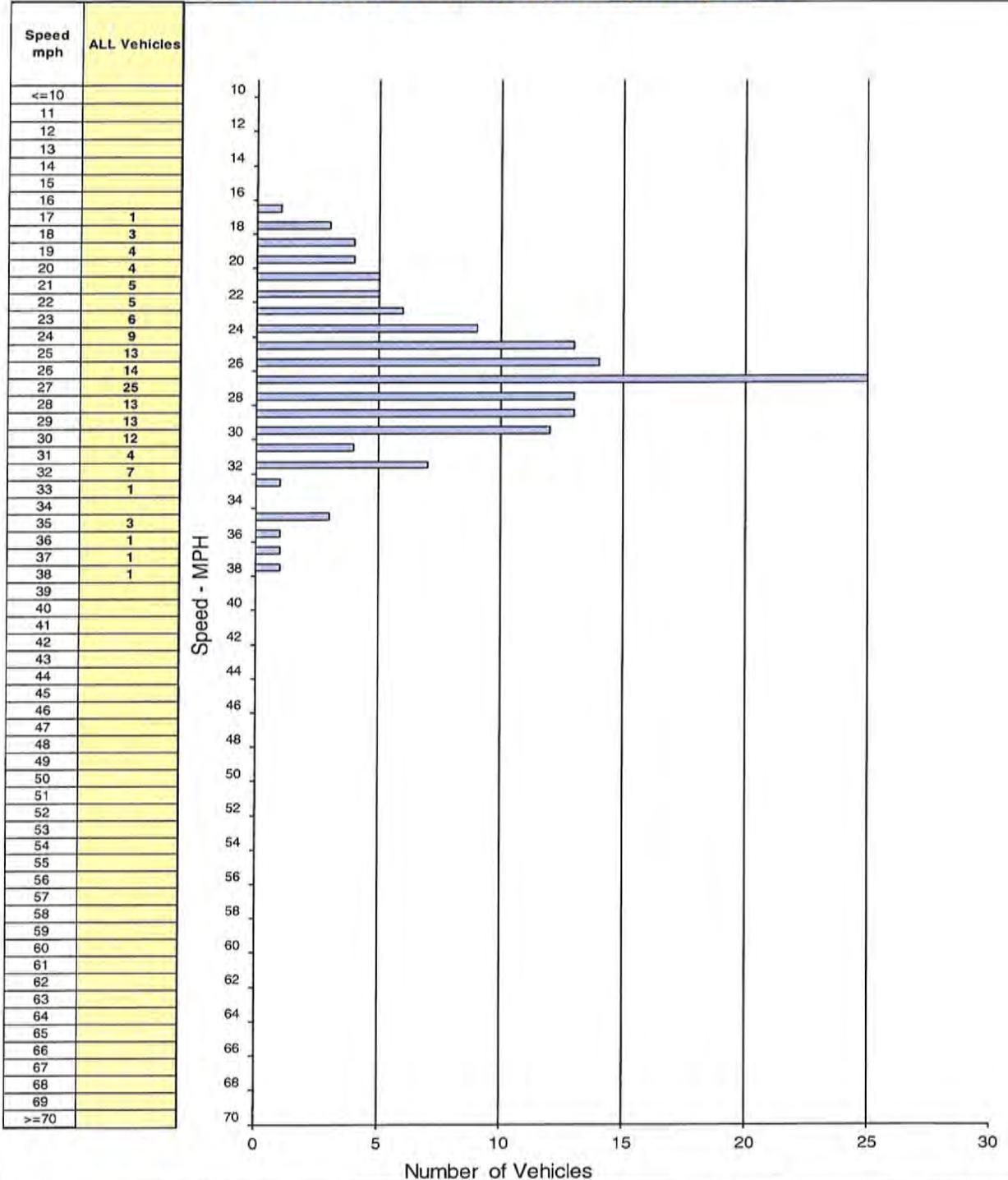
City of Capitola

DATE: 1/14/2020
TIME: 14:00-15:10

Location: 729 Monterey Ave
Posted Speed: 25 MPH Clear/Dry

Project #: 20-8004-037

Eastbound & Westbound Spot Speeds



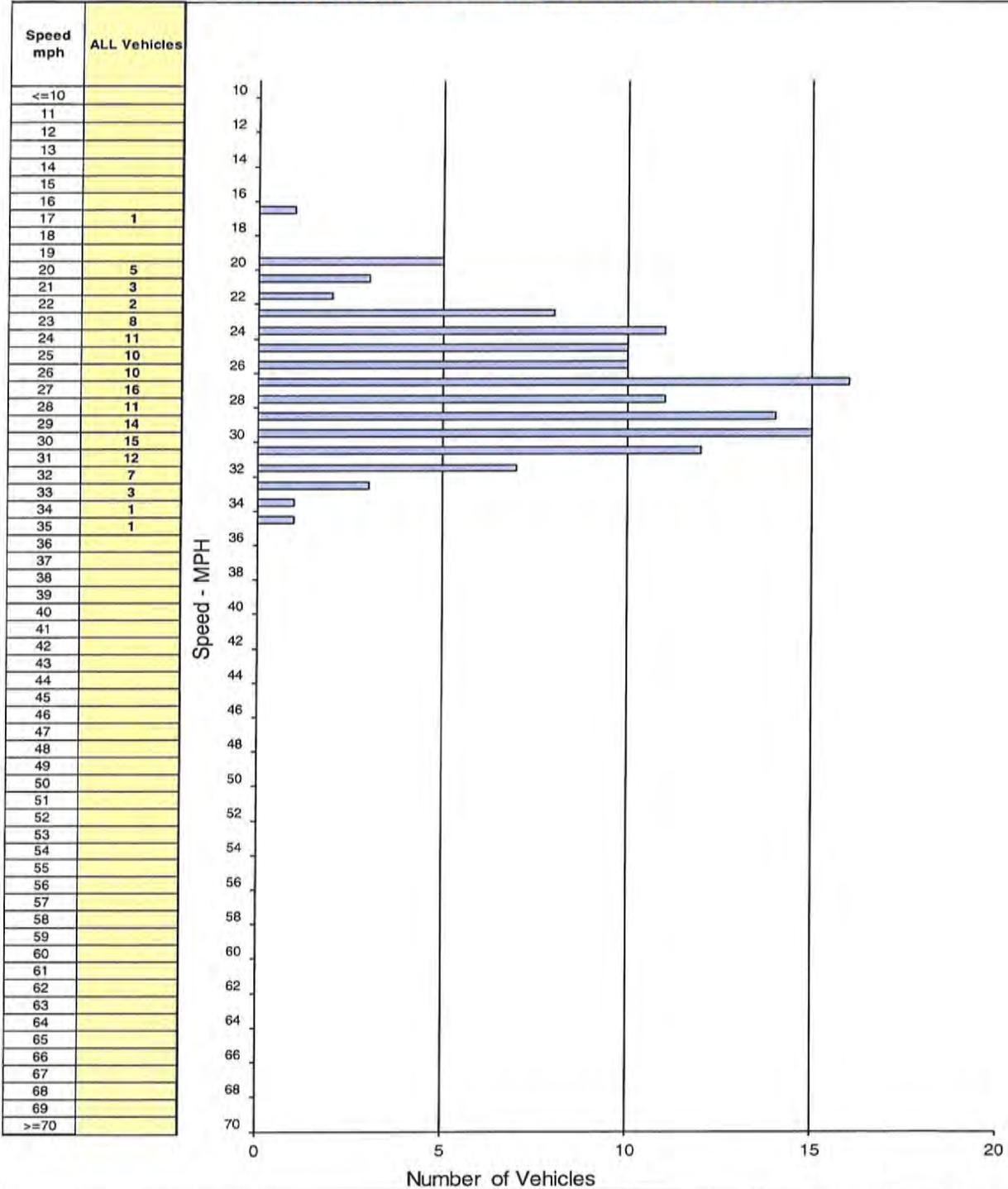
SPEED PARAMETERS									
Class	Count	Range	50th Percentile	85th Percentile	10 MPH Pace	# In Pace	Percent In Pace	% / # Below Pace	% / # Above Pace
ALL	145	17 - 38	27 mph	30 mph	23 - 32	116	80%	15% / 22	5% / 7

City of Capitola

DATE: 1/14/2020
TIME: 12:40-13:50

Location: Monterey Ave 75' E/O Younger Ave
Posted Speed: 25 MPH Clear/Dry Project #: 20-8004-036

Eastbound & Westbound Spot Speeds



SPEED PARAMETERS									
Class	Count	Range	50th Percentile	85th Percentile	10 MPH Pace	# In Pace	Percent In Pace	% / # Below Pace	% / # Above Pace
ALL	130	17 - 35	27 mph	31 mph	23 - 32	114	88%	8% / 11	4% / 5



Street: Monterey Ave
Limits: Between Park Ave & Bay Ave
Direction: EB & WB

Factors

A. Prevailing Speed Data

Location of Survey	Monterey Ave 125' N/O Park Ave
Date of Survey	1/14/2020
Posted Speed Limit (mph)	25 mph
# Speed Data Collected	185
85 th Percentile (mph)	21 mph
10 mph Pace	13-22
Percent in Pace	95%

B. Traffic Factors

Width	32'
Length of Segment (mi.)	0.05
Street Classification	Minor Arterial

C. Collision History

Date Range Covered	1/1/2017-12/31/2019
Total Accidents	Three total collisions, one injury

D. Roadway Conditions

Adjacent Land Use	Adjacent land use is primarily residential, with a substantial parking complex.
Roadway Geometrics	Two-lane roadway with bike lanes, sidewalks are present on the east side of the roadway. Stop sign intersection has crosswalks. The segment features a steady incline.
Comments	Results of the attached engineering & traffic survey information support maintaining the existing 25 mph speed limit.

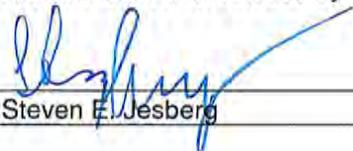
Speed Limit Change? No

Existing Speed Limit: 25 MPH

Recommended Speed Limit: 25 MPH

This Survey conforms to section 627 and 40802 of the California Vehicle Code section 2B.13 of the California MUTCD and recommends a speed limit appropriate to facilitate the safe and orderly movement of traffic.

Approved and Authorized for release by the City of Capitola Public Works:

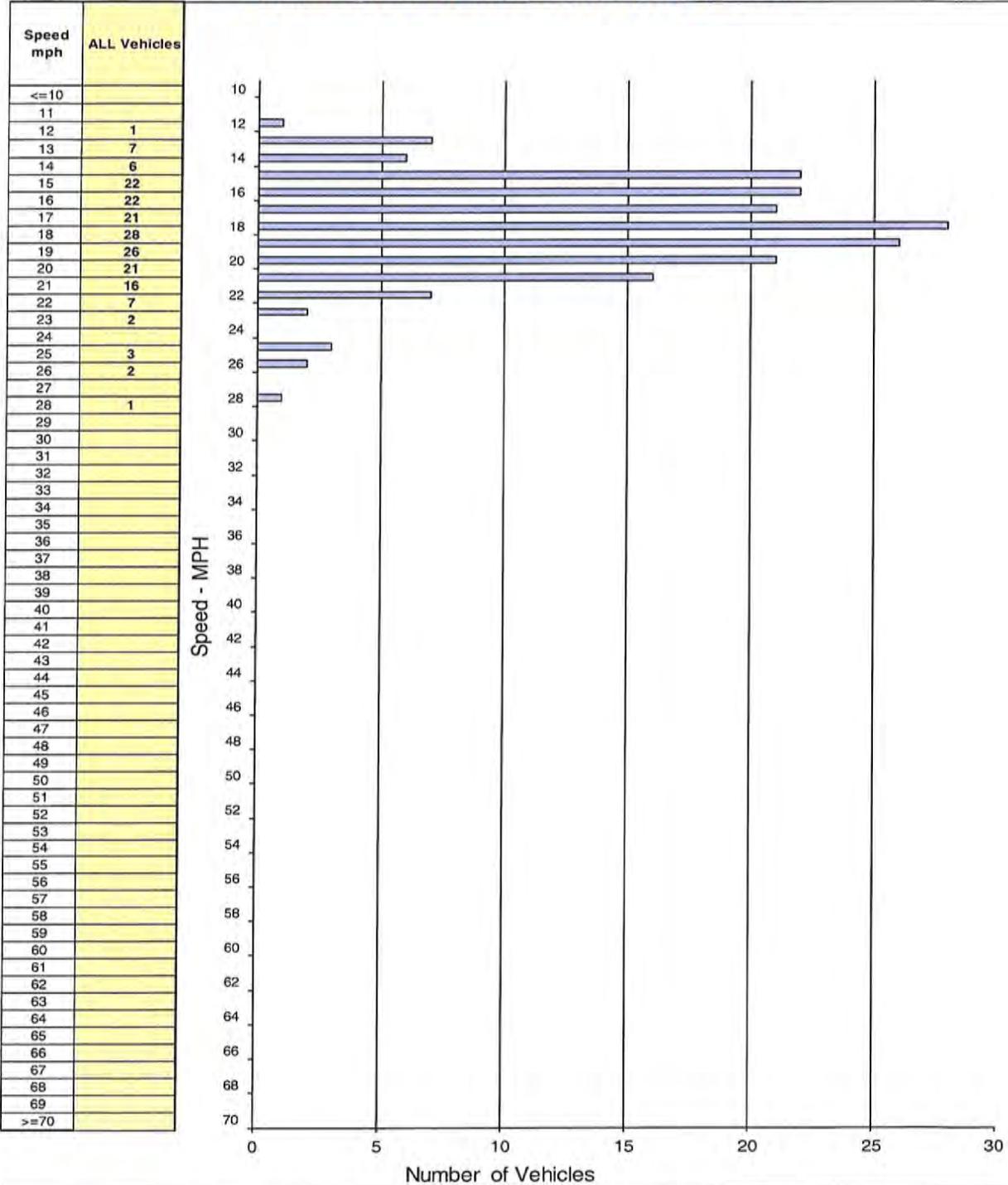
Signed:  Title: City Engineer
 Steven E. Jesberg

City of Capitola

DATE: 1/14/2020
TIME: 11:35-12:35

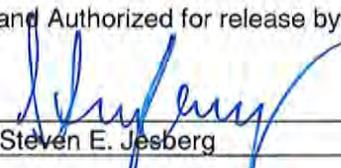
Location: Monterey Ave 125' N/O Park Ave
Posted Speed: 25 MPH Clear/Dry Project #: 20-8004-035

Eastbound & Westbound Spot Speeds



SPEED PARAMETERS									
Class	Count	Range	50th Percentile	85th Percentile	10 MPH Pace	# in Pace	Percent in Pace	% / # Below Pace	% / # Above Pace
ALL	185	12 - 28	18 mph	21 mph	13 - 22	176	95%	0% / 1	5% / 8



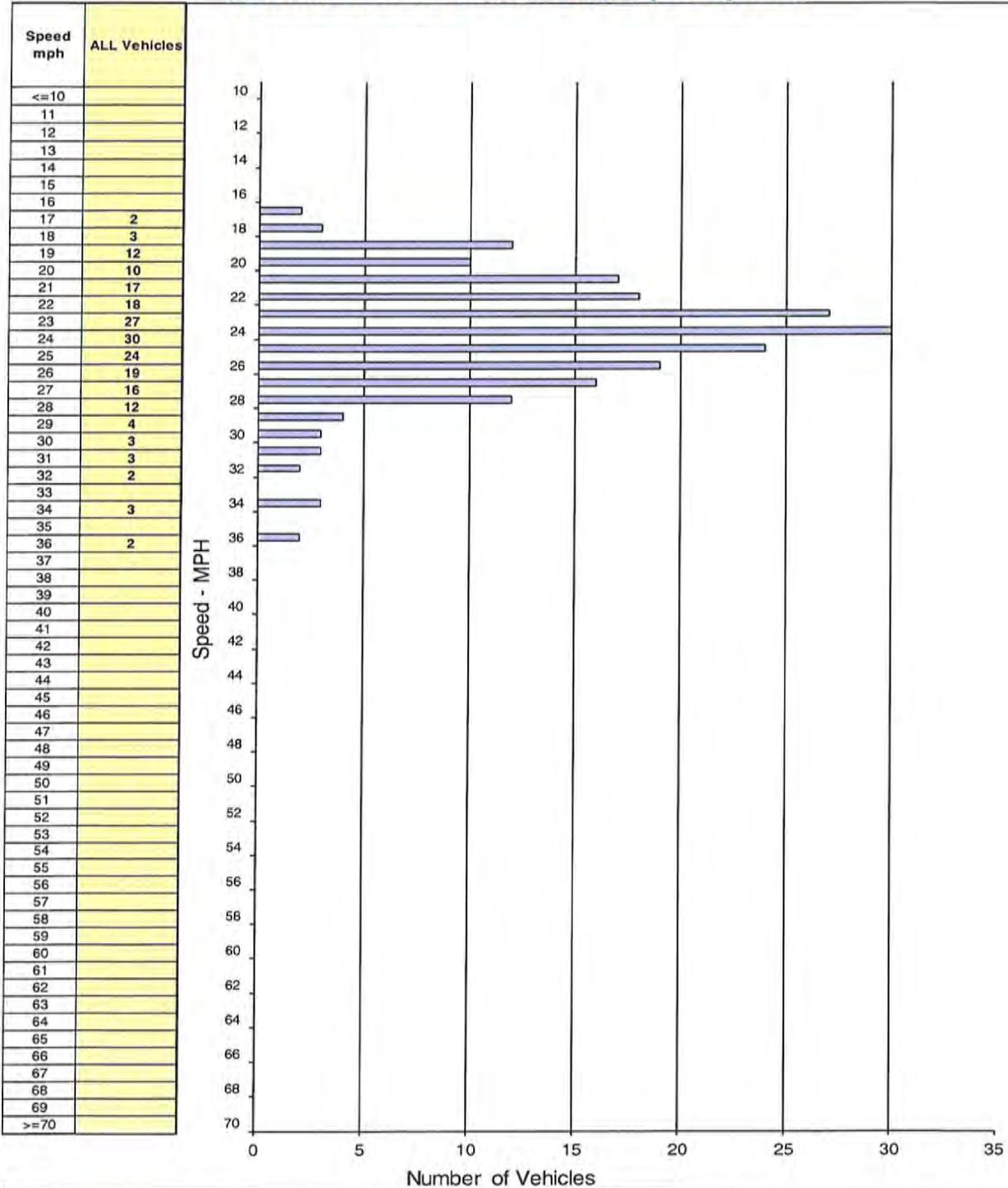
Street:	Monterey Ave	
Limits:	Between Capitola Ave & Park Ave	
Direction:	NB & SB	
Factors		
A. <u>Prevailing Speed Data</u>		
Location of Survey	Monterey Ave 100' S/O Fanmar Way	
Date of Survey	1/15/2020	
Posted Speed Limit (mph)	25 mph	
# Speed Data Collected	207	
85 th Percentile (mph)	27 mph	
10 mph Pace	19-28	
Percent in Pace	89%	
B. <u>Traffic Factors</u>		
Width	29	
Length of Segment (mi.)	0.19	
Street Classification	Other Principal Arterial	
C. <u>Collision History</u>		
Date Range Covered	1/1/2017-12/31/2019	
Total Accidents	Two total collisions, two injury	
D. <u>Roadway Conditions</u>		
Adjacent Land Use	Adjacent land use is primarily residential.	
Roadway Geometrics	Two-lane roadway with a bike lane on the east side of the roadway, sidewalks are present on the west side of the roadway. Stop sign intersection has turn pockets and crosswalks. The segment features a steady incline.	
Comments	Results of the attached engineering & traffic survey information support maintaining the existing 25 mph speed limit.	
Speed Limit Change?	No	
Existing Speed Limit: 25 MPH	Recommended Speed Limit: 25 MPH	
This Survey conforms to section 627 and 40802 of the California Vehicle Code section 2B.13 of the California MUTCD and recommends a speed limit appropriate to facilitate the safe and orderly movement of traffic.		
Approved and Authorized for release by the City of Capitola Public Works:		
Signed:		Title: City Engineer
	Steven E. Jesberg	

City of Capitola

DATE: 1/15/2020
 TIME: 10:05-10:40

Location: Monterey Ave 100' S/O Fanmar Way
 Posted Speed: 25 MPH Clear/Dry Project #: 20-8004-034

Northbound & Southbound Spot Speeds



SPEED PARAMETERS									
Class	Count	Range	50th Percentile	85th Percentile	10 MPH Pace	# in Pace	Percent in Pace	% / # Below Pace	% / # Above Pace
ALL	207	17 - 36	24 mph	27 mph	19 - 28	185	89%	2% / 5	9% / 17



Street: Monterey Ave
Limits: Between Esplanade & Capitola Ave
Direction: NB

Factors

A. Prevailing Speed Data

Location of Survey	Monterey Ave 75' S/O Capitola Ave
Date of Survey	1/15/2020
Posted Speed Limit (mph)	None
# Speed Data Collected	74
85 th Percentile (mph)	19 mph
10 mph Pace	12-21
Percent in Pace	96%

B. Traffic Factors

Average Daily Traffic (ADT)	49'
Length of Segment (mi.)	0.05
Street Classification	Other Principal Arterial

C. Collision History

Date Range Covered	1/1/2017-12/31/2019
Total Accidents	Five total collisions

D. Roadway Conditions

Adjacent Land Use	It is a primarily residential and business district, with a substantial beach and a park.
Roadway Geometrics	One-way roadways. Sidewalks are present on the north and south side of the roadway.
Comments	It is recommended that the prima facia speed of 25 mph be maintained on this street section.

Speed Limit Change?	No
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Existing Speed Limit: 25 MPH

Recommended Speed Limit: 25 MPH

This Survey conforms to section 627 and 40802 of the California Vehicle Code section 2B.13 of the California MUTCD and recommends a speed limit appropriate to facilitate the safe and orderly movement of traffic.

Approved and Authorized for release by the City of Capitola Public Works:

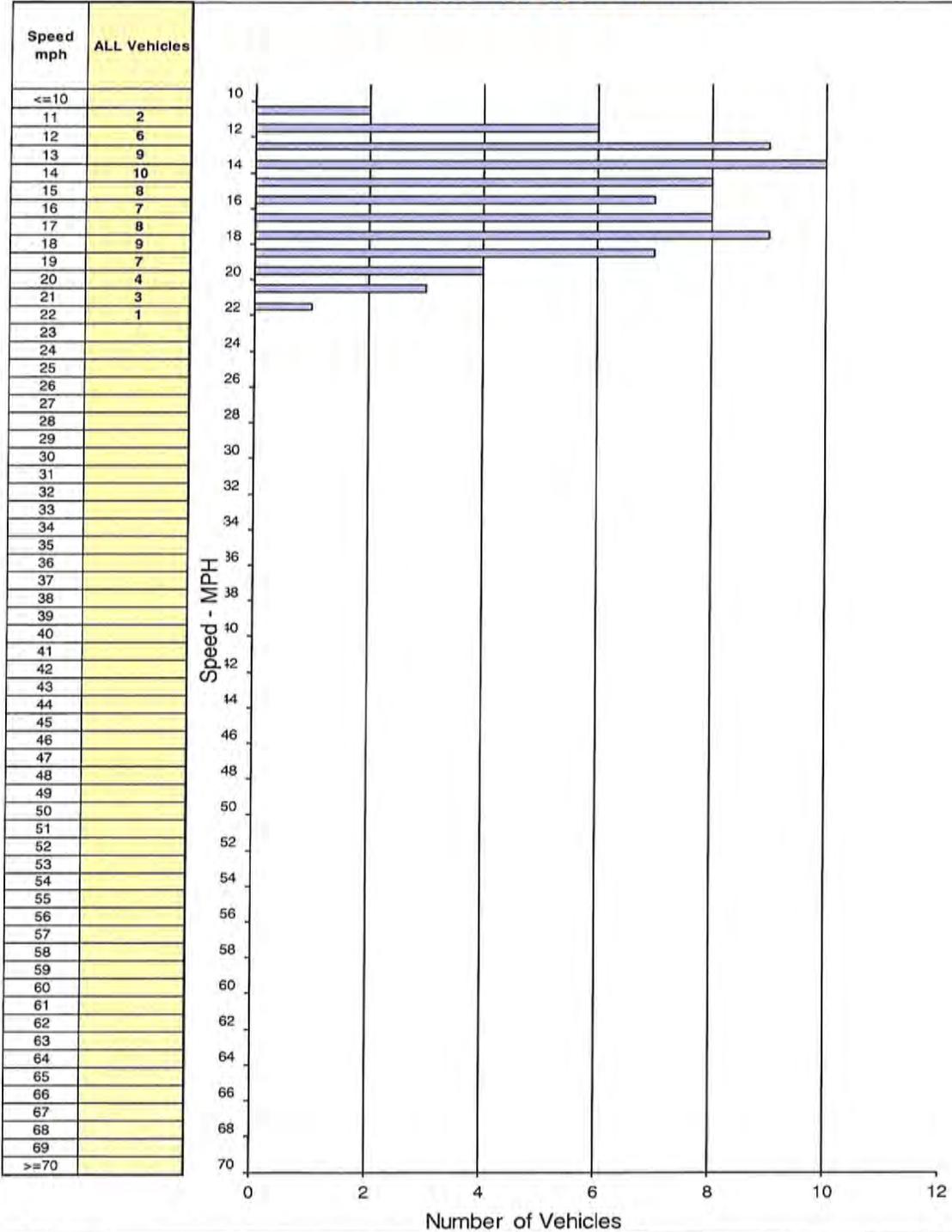
Signed: Steven E. Jesberg Title: City Engineer

City of Capitola

DATE: 1/15/2020
 TIME: 09:00-10:00

Location: Monterey Ave 75' S/O Capitola Ave
 Posted Speed: 25 MPH Clear/Dry Project #: 20-8004-033

Northbound Spot Speeds



SPEED PARAMETERS									
Class	Count	Range	50th Percentile	85th Percentile	10 MPH Pace	# in Pace	Percent in Pace	% / # Below Pace	% / # Above Pace
ALL	74	11 - 22	16 mph	19 mph	12 - 21	71	96%	2% / 2	2% / 1



Street: Park Ave
Limits: Between Monterey Ave & Coronado St
Direction: EB & WB

Factors

A. Prevailing Speed Data

Location of Survey	Park Ave. 200' W/O Coronado St.
Date of Survey	01/29/2020
Posted Speed Limit (mph)	25 and 35
# Speed Data Collected	201
85 th Percentile (mph)	31
10 mph Pace	22-31
Percent in Pace	84%

B. Traffic Factors

Width	39'
Length of Segment (mi.)	0.68
Street Classification	Other Principal Arterial

C. Collision History

Date Range Covered	1/1/2017-12/31/2019
Total Accidents	Nine collisions, four injury

D. Roadway Conditions

Adjacent Land Use	It is primarily residential with substantial apartment complexes in the area.
Roadway Geometrics	Two-lane roadways. Sidewalks are present on parts of north and south of the roadway. A pedestrian crosswalk is in the middle of the segment. The segment features horizontal curves and multiple steady inclines.
Comments	After evaluating current critical and pace speeds, it is recommended that a 25-mph speed limit be implemented to be in concurrence with section 2B.13 of the MUTCD. The 25-mph speed limit was obtained by a 5-mph reduction of the critical speed of 30 mph due to the number of access points, Residential district density (as defined in section 515), and pedestrian and bicyclist safety. This section has an existing split speed limit and it is recommended that the speed be equal in both sections to prevent confusion to drivers.

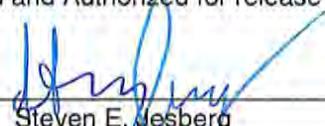
Speed Limit Change? No

Existing Speed Limit: 25 and 35 MPH

Recommended Speed Limit: 25 MPH

This Survey conforms to section 627 and 40802 of the California Vehicle Code section 2B.13 of the California MUTCD and recommends a speed limit appropriate to facilitate the safe and orderly movement of traffic.

Approved and Authorized for release by the City of Capitola Public Works:

Signed:  **Title:** City Engineer
 Steven E. Jesberg

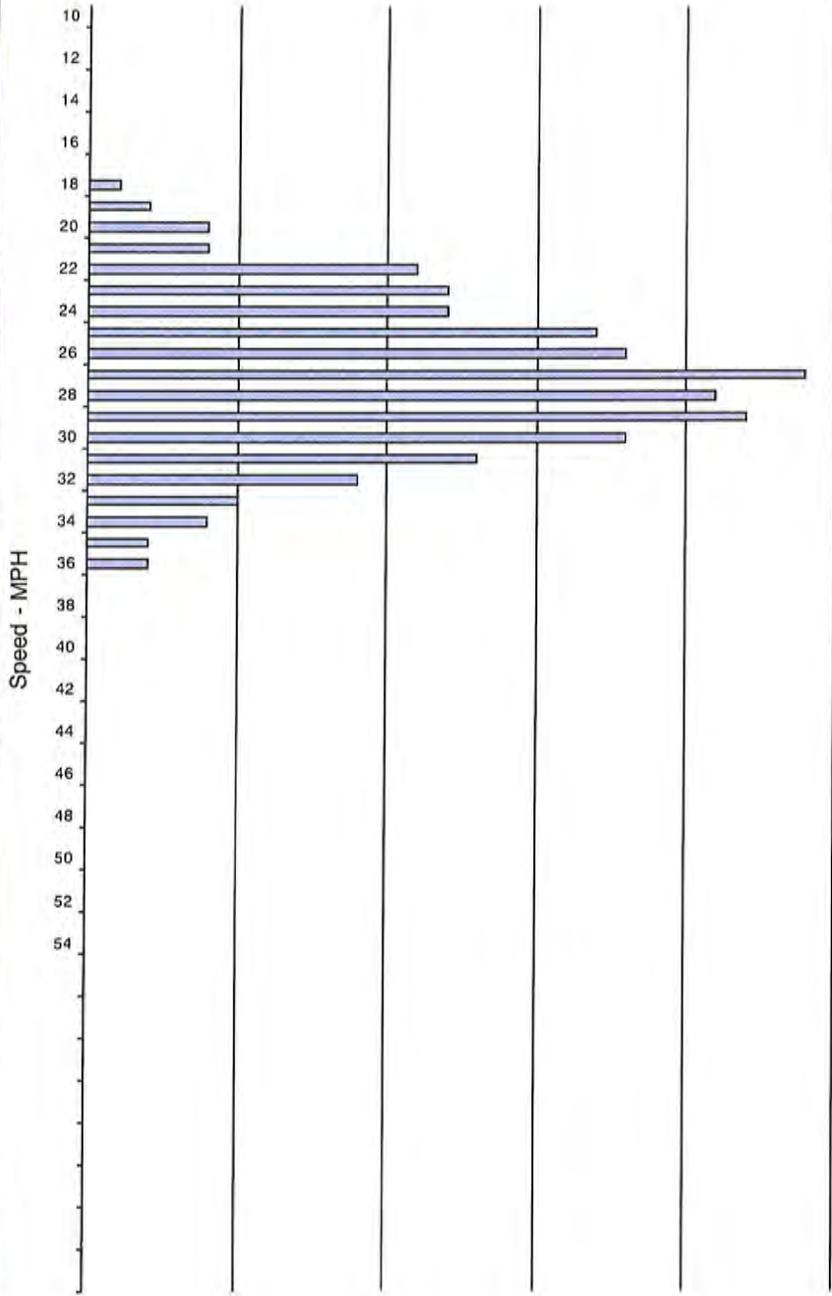
City of Capitola

DATE: 1/29/20
TIME: 12:20-13:10

Location: Park Ave 200' W/O Coronado St
Posted Speed: 25 MPH Clear/Dry Project #: 20-8004-040

Eastbound & Westbound Spot Speeds

Speed mph	ALL Vehicles
<=10	
11	
12	
13	
14	
15	
16	
17	
18	1
19	2
20	4
21	4
22	11
23	12
24	12
25	17
26	18
27	24
28	21
29	22
30	18
31	13
32	9
33	5
34	4
35	2
36	2
37	
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69	
>=70	



SPEED PARAMETERS									
Class	Count	Range	50th Percentile	85th Percentile	10 MPH Pace	# in Pace	Percent in Pace	% / # Below Pace	% / # Above Pace
ALL	201	18 - 36	27 mph	31 mph	22 - 31	168	84%	5% / 11	11% / 22



Street: Park Ave
Limits: Between Coronado St & Kennedy Ave/ McGregor Dr
Direction: EB & WB

Factors

A. Prevailing Speed Data

Location of Survey	Park Ave. 200' S/O Kennedy Dr.
Date of Survey	01/29/2020
Posted Speed Limit (mph)	35
# Speed Data Collected	164
85 th Percentile (mph)	37
10 mph Pace	28-37
Percent in Pace	84%

B. Traffic Factors

Width	32
Length of Segment (mi.)	0.21
Street Classification	Other Principal Arterial

C. Collision History

Date Range Covered	1/1/2017-12/31/2019
Total Accidents	One Collision

D. Roadway Conditions

Adjacent Land Use	It is primarily residential with substantial apartment complexes in the area.
Roadway Geometrics	Two-lane roadways. No sidewalks are present. The segment features horizontal curves and steady incline.
Comments	The critical speed was measured at 37 mph which will be rounded down to 35-mph speed limit. A 5-mph reduction of the critical speed will be applied due to the presence of a bike lane in each direction and a horizontal curve which limits sight distance, resulting in a recommended speed of 30 mph.

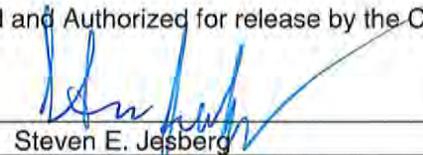
Speed Limit Change? No

Existing Speed Limit: 35 MPH

Recommended Speed Limit: 30 MPH

This Survey conforms to section 627 and 40802 of the California Vehicle Code section 2B.13 of the California MUTCD and recommends a speed limit appropriate to facilitate the safe and orderly movement of traffic.

Approved and Authorized for release by the City of Capitola Public Works:

Signed:  **Title:** City Engineer
 Steven E. Jesberg

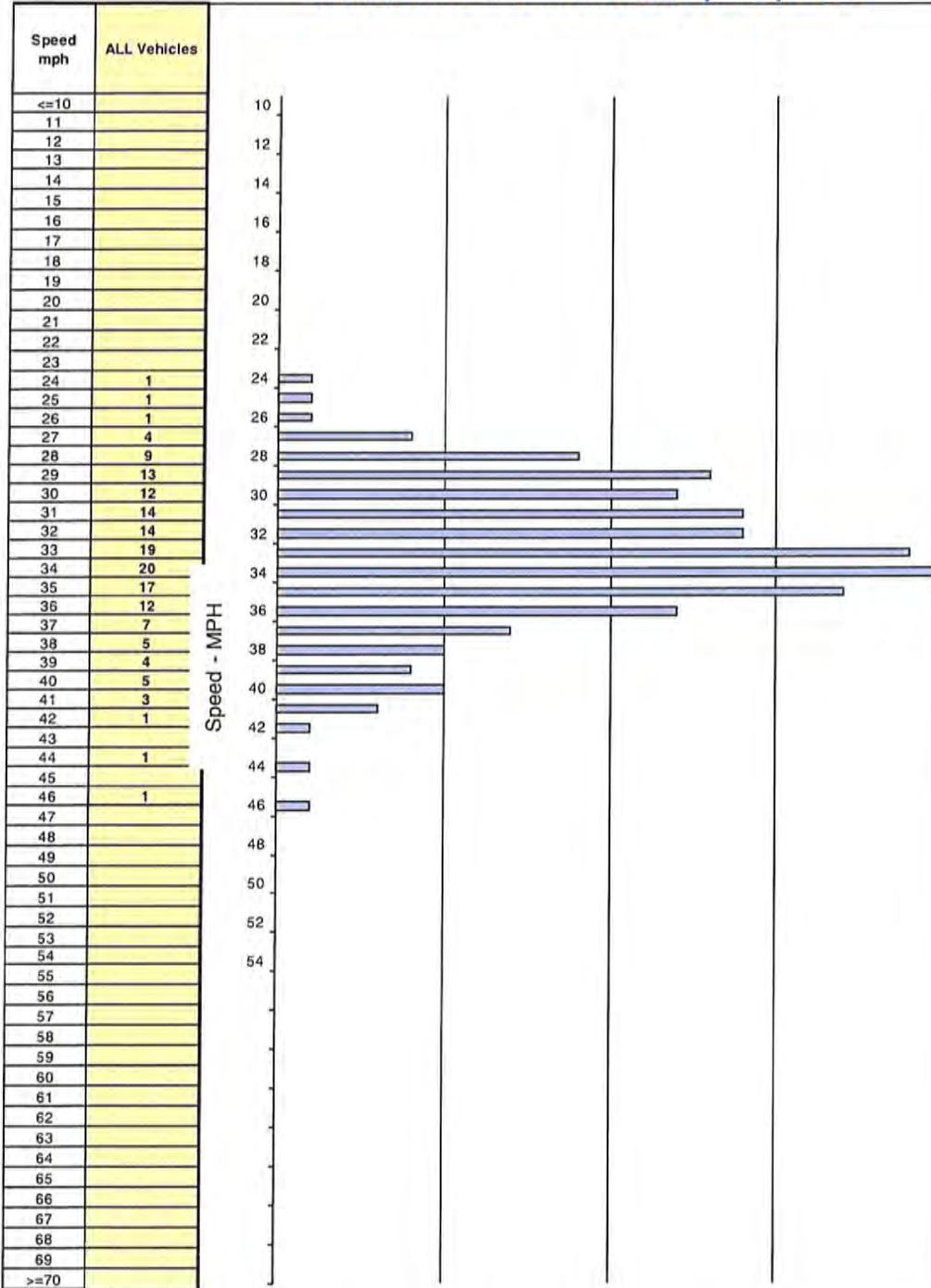
City of Capitola

DATE: 1/29/20
TIME: 11:05-12:05

Location: Park Ave 200' S/O Kennedy Dr
Posted Speed: 35 MPH Clear/Dry

Project #: 20-8004-041

Northbound & Southbound Spot Speeds



SPEED PARAMETERS									
Class	Count	Range	50th Percentile	85th Percentile	10 MPH Pace	# In Pace	Percent in Pace	% / # Below Pace	% / # Above Pace
ALL	164	24 - 46	33 mph	37 mph	28 - 37	137	84%	4% / 7	13% / 20



Street: Park Ave
Limits: Between Kennedy Dr/ McGregor Dr & SR 1
Direction: EB & WB

Factors

A. Prevailing Speed Data

Location of Survey	Park Ave 200' N/O Kennedy Dr/McGregor Dr
Date of Survey	01/29/2020
Posted Speed Limit (mph)	35
# Speed Data Collected	126
85 th Percentile (mph)	34
10 mph Pace	26-35
Percent in Pace	82%

B. Traffic Factors

Width	49'
Length of Segment (mi.)	0.15
Street Classification	Other Principal Arterial

C. Collision History

Date Range Covered	1/1/2017-12/31/2019
Total Accidents	Two collisions

D. Roadway Conditions

Adjacent Land Use	It is primarily residential.
Roadway Geometrics	Two-lane roadways. Sidewalks are present on the east side of the roadway.
Comments	The critical speed was measured at 34 mph which will be rounded up to 35-mph. This street section includes on and off ramps to Highway 1, bike lanes which braid through the section and sidewalks on both sides of the street. A 5-mph reduction of the critical speed will be applied due to the precesnce of a bike lanes, resulting in a recommended speed of 30 mph.

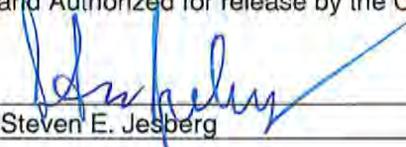
Speed Limit Change? No

Existing Speed Limit: 35 MPH

Recommended Speed Limit: 30 MPH

This Survey conforms to section 627 and 40802 of the California Vehicle Code section 2B.13 of the California MUTCD and recommends a speed limit appropriate to facilitate the safe and orderly movement of traffic.

Approved and Authorized for release by the City of Capitola Public Works:

Signed:  **Title:** City Engineer
 Steven E. Jesberg

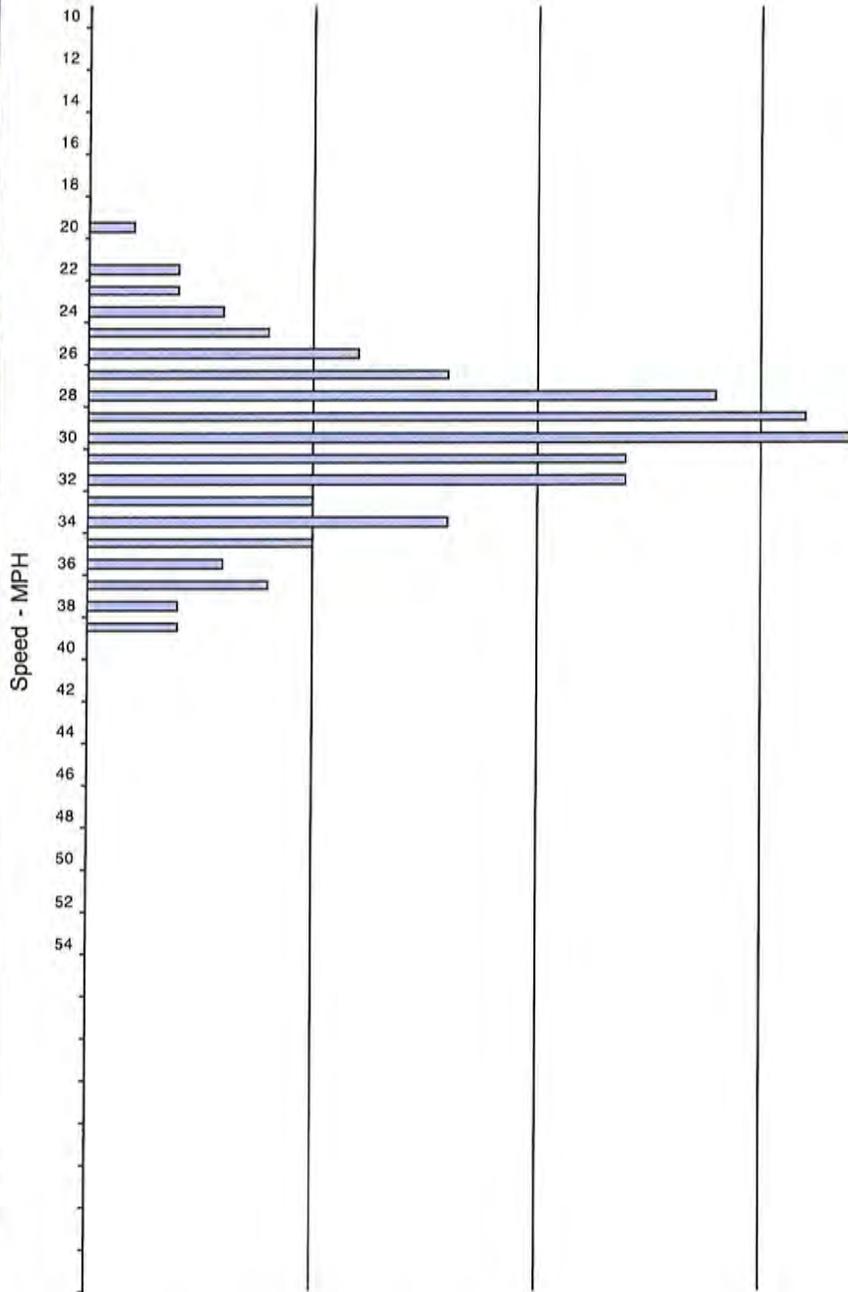
City of Capitola

DATE: 1/29/20
TIME: 10:00-11:00

Location: Park Ave 200' N/O Kennedy Dr/McGregor Dr
Posted Speed: 35 MPH Clear/Dry Project #: 20-8004-042

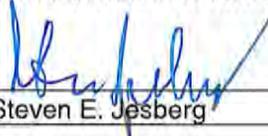
Northbound & Southbound Spot Speeds

Speed mph	ALL Vehicles
<=10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	1
21	
22	2
23	2
24	3
25	4
26	6
27	8
28	14
29	16
30	17
31	12
32	12
33	5
34	8
35	5
36	3
37	4
38	2
39	2
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67	
68	
69	
>=70	



SPEED PARAMETERS									
Class	Count	Range	50th Percentile	85th Percentile	10 MPH Pace	# in Pace	Percent in Pace	% / # Below Pace	% / # Above Pace
ALL	126	20 - 39	30 mph	34 mph	26 - 35	103	82%	9% / 12	9% / 11



Street:	Stockton Ave	
Limits:	Between Wharf Rd & Capitola Ave	
Direction:	WB & EB	
Factors		
A. <u>Prevailing Speed Data</u>		
Location of Survey	Stockton Ave 200' E/O Wharf Rd	
Date of Survey	1/14/2020	
Posted Speed Limit (mph)	None	
# Speed Data Collected	100	
85 th Percentile (mph)	24 mph	
10 mph Pace	17-26	
Percent in Pace	93%	
B. <u>Traffic Factors</u>		
Width	31'	
Length of Segment (mi.)	0.09	
Street Classification	Other Principal Arterial	
C. <u>Collision History</u>		
Date Range Covered	1/1/2017-12/31/2019	
Total Accidents	Two total collisions	
D. <u>Roadway Conditions</u>		
Adjacent Land Use	It is a primarily residential and business district.	
Roadway Geometrics	Two-lane roadways. Sidewalks are present on the north and south side of the roadway.	
Comments	Results of the attached engineering & traffic survey information support maintaining the existing 25 mph speed limit.	
Speed Limit Change?	No	
Existing Speed Limit: 25 MPH		Recommended Speed Limit: 25 MPH
<p>This Survey conforms to section 627 and 40802 of the California Vehicle Code section 2B.13 of the California MUTCD and recommends a speed limit appropriate to facilitate the safe and orderly movement of traffic.</p> <p>Approved and Authorized for release by the City of Capitola Public Works:</p>		
Signed:	 Steven E. Jesberg	Title: City Engineer

City of Capitola

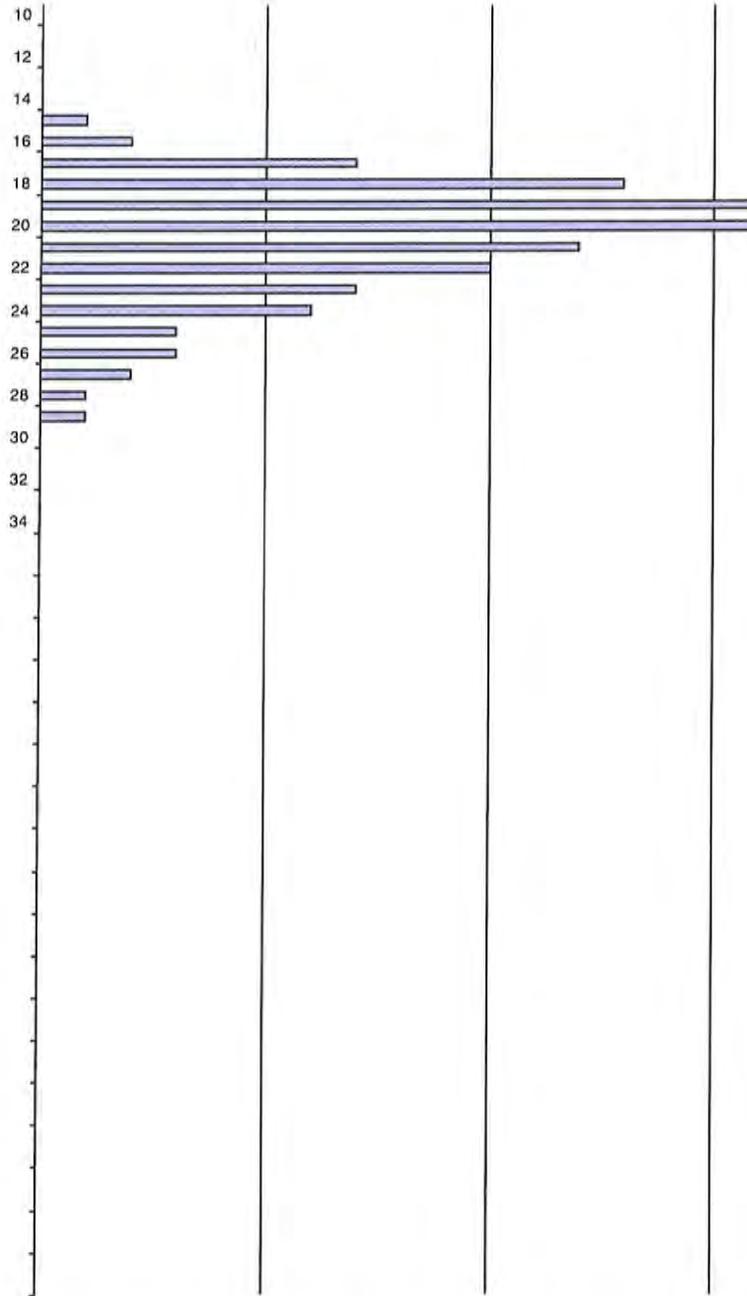
DATE: 1/14/20
TIME: 14:05-15:20

Location: Stockton Ave 200' E/O Wharf Rd
Posted Speed: None Clear/Dry

Project #: 20-8004-031

Eastbound & Westbound Spot Speeds

Speed mph	ALL Vehicles
<=10	
11	
12	
13	
14	
15	1
16	2
17	7
18	13
19	16
20	16
21	12
22	10
23	7
24	6
25	3
26	3
27	2
28	1
29	1
30	
31	
32	
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>=70	



SPEED PARAMETERS									
Class	Count	Range	50th Percentile	85th Percentile	10 MPH Pace	# in Pace	Percent in Pace	% / # Below Pace	% / # Above Pace
ALL	100	15 - 29	20 mph	24 mph	17 - 26	93	93%	3% / 3	4% / 4



Street: Topaz St
Limits: Between 45th Ave & 47th Ave
Direction: EB & WB

Factors

A. Prevailing Speed Data

Location of Survey	4595 Topaz St
Date of Survey	1/13/2020
Posted Speed Limit (mph)	25 mph
# Speed Data Collected	106
85 th Percentile (mph)	22 mph
10 mph Pace	15-24
Percent in Pace	92%

B. Traffic Factors

Width	30'
Length of Segment (mi.)	0.08
Street Classification	Major Collector

C. Collision History

Date Range Covered	1/1/2017-12/31/2019
Total Accidents	Six total collisions

D. Roadway Conditions

Adjacent Land Use	It is a primarily residential district.
Roadway Geometrics	Two-lane unmarked roadways. No sidewalks are present on the roadway.
Comments	It is recommended that the prima facia speed of 25 mph be maintained on this street section.

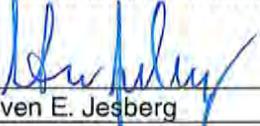
Speed Limit Change?	Yes
---------------------	-----

Existing Speed Limit: 25 MPH

Recommended Speed Limit: 25 MPH

This Survey conforms to section 627 and 40802 of the California Vehicle Code section 2B.13 of the California MUTCD and recommends a speed limit appropriate to facilitate the safe and orderly movement of traffic.

Approved and Authorized for release by the City of Capitola Public Works:

Signed:  **Title:** City Engineer
 Steven E. Jesberg

City of Capitola

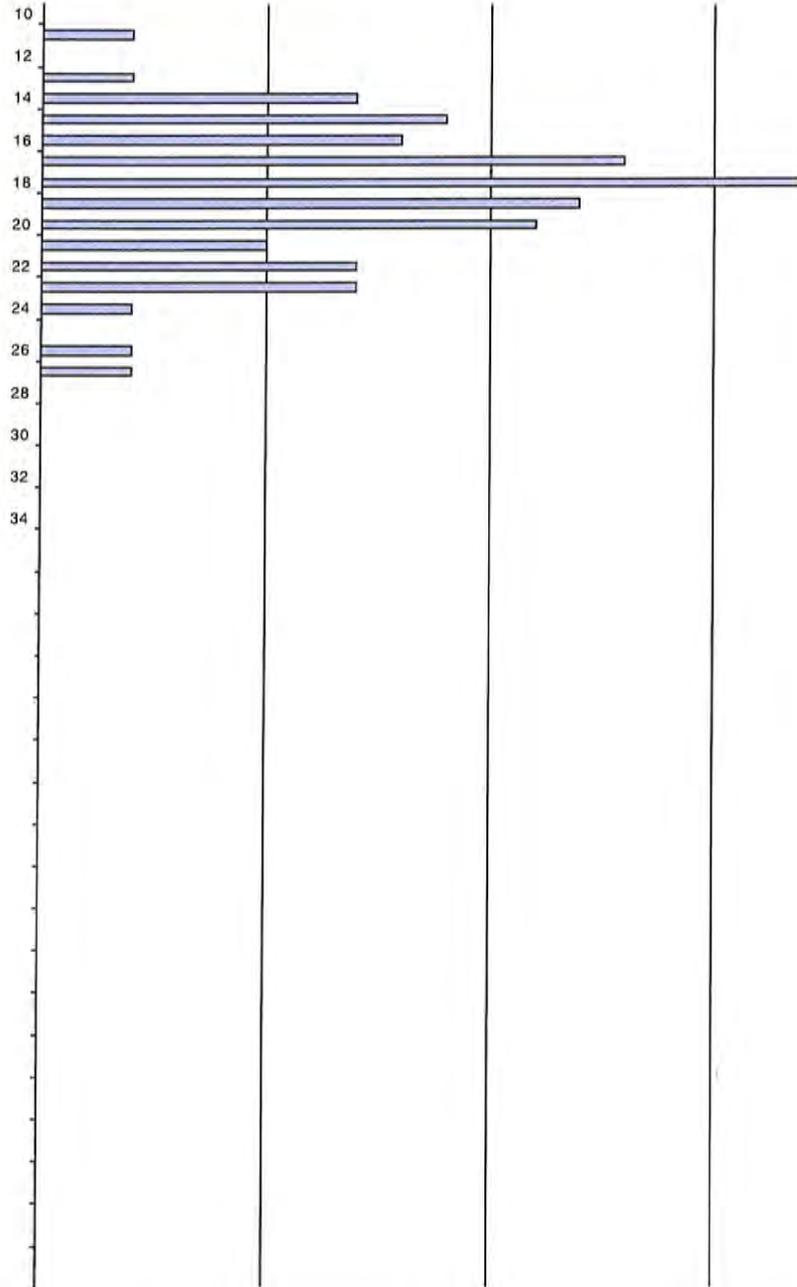
DATE: 1/13/20
TIME: 14:00-15:00

Location: 4595 Topaz St
Posted Speed: 25 MPH Clear/Dry

Project #: 20-8004-016

Eastbound & Westbound Spot Speeds

Speed mph	ALL Vehicles
<=10	
11	2
12	
13	2
14	7
15	9
16	8
17	13
18	17
19	12
20	11
21	5
22	7
23	7
24	2
25	
26	2
27	2
28	
29	
30	
31	
32	
33	
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67	
68	
69	
>=70	



SPEED PARAMETERS									
Class	Count	Range	50th Percentile	85th Percentile	10 MPH Pace	# In Pace	Percent in Pace	% / # Below Pace	% / # Above Pace
ALL	106	11 - 27	18 mph	22 mph	15 - 24	98	92%	10% / 11	-3% / -3



Street: Topaz St
Limits: Between 47th Ave & 49th Ave
Direction: EB & WB

Factors

A. Prevailing Speed Data

Location of Survey	4795 Topaz St
Date of Survey	1/13/2020
Posted Speed Limit (mph)	25 mph
# Speed Data Collected	103
85 th Percentile (mph)	22 mph
10 mph Pace	15-24
Percent in Pace	89%

B. Traffic Factors

Width	30'
Length of Segment (mi.)	0.09
Street Classification	Major Collector

C. Collision History

Date Range Covered	1/1/2017-12/31/2019
Total Accidents	Two total collisions

D. Roadway Conditions

Adjacent Land Use	It is a primarily residential district.
Roadway Geometrics	Two-lane unmarked roadways. No sidewalks are present on the roadway.
Comments	It is recommended that the prima facia speed of 25 mph be maintained on this street section.

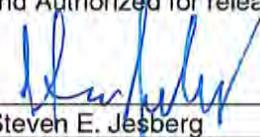
Speed Limit Change?	Yes
---------------------	-----

Existing Speed Limit: 25 MPH

Recommended Speed Limit: 25 MPH

This Survey conforms to section 627 and 40802 of the California Vehicle Code section 2B.13 of the California MUTCD and recommends a speed limit appropriate to facilitate the safe and orderly movement of traffic.

Approved and Authorized for release by the City of Capitola Public Works:

Signed:  **Title:** City Engineer
 Steven E. Jesberg

City of Capitola

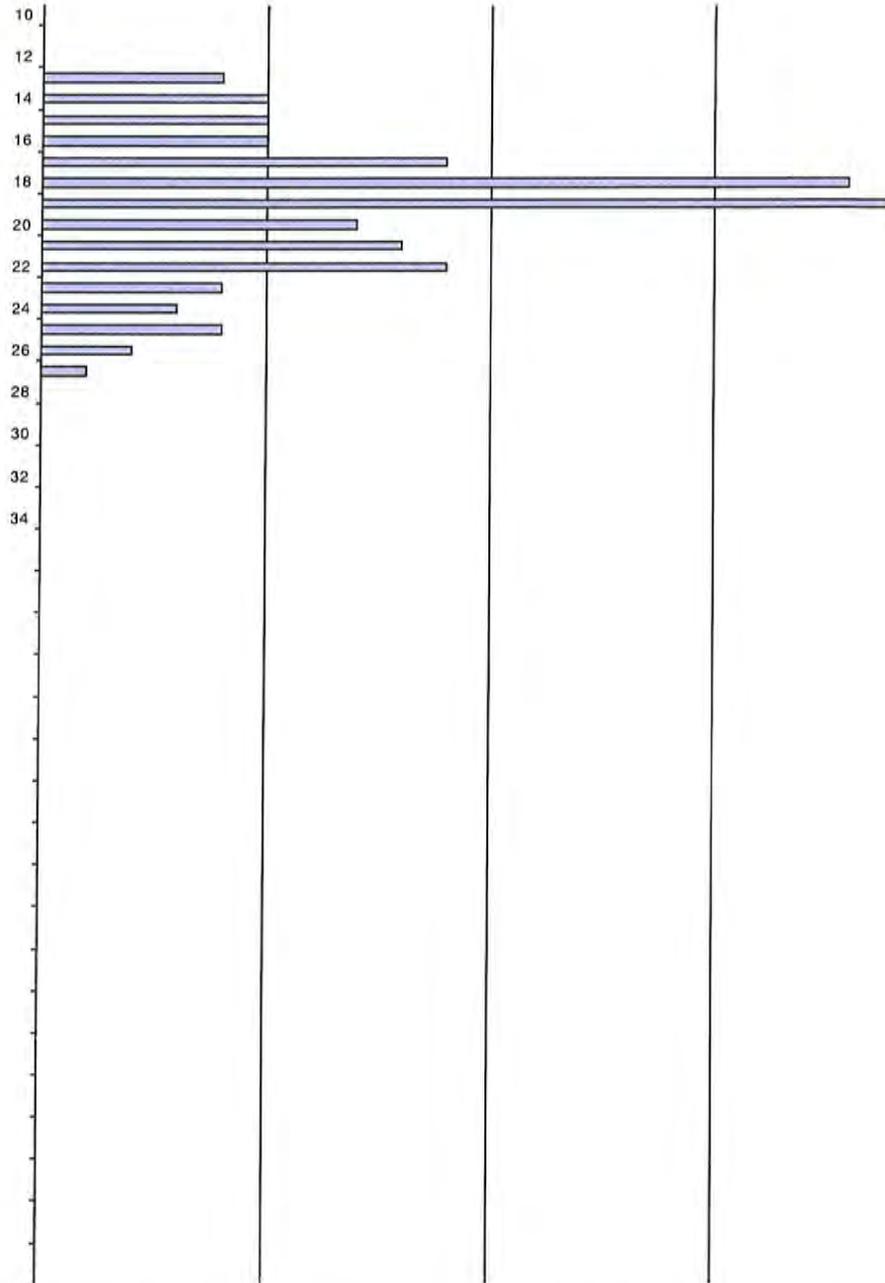
DATE: 1/13/20
TIME: 15:00-16:00

Location: 4795 Topaz St
Posted Speed: 25 MPH Clear/Dry

Project #: 20-8004-017

Eastbound & Westbound Spot Speeds

Speed mph	ALL Vehicles
<=10	
11	
12	
13	4
14	5
15	5
16	5
17	9
18	18
19	19
20	7
21	8
22	9
23	4
24	3
25	4
26	2
27	1
28	
29	
30	
31	
32	
33	
34	
35	
36	
37	
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>=70	



SPEED PARAMETERS									
Class	Count	Range	50th Percentile	85th Percentile	10 MPH Pace	# in Pace	Percent in Pace	% / # Below Pace	% / # Above Pace
ALL	103	13 - 27	19 mph	22 mph	15 - 24	92	89%	8% / 9	2% / 2



Street: Wharf Rd
Limits: Between Clares St & Robertson St
Direction: NB

Factors

A. Prevailing Speed Data

Location of Survey	Wharf Rd 170' N/O Woolsey Cir
Date of Survey	1/23/2020
Posted Speed Limit (mph)	25 mph
# Speed Data Collected	215
85 th Percentile (mph)	34 mph
10 mph Pace	26-35
Percent in Pace	84%

B. Traffic Factors

Width	30
Length of Segment (mi.)	0.34
Street Classification	Minor Arterial

C. Collision History

Date Range Covered	1/1/2017-12/31/2019
Total Accidents	Seven total collisions and three injuries

D. Roadway Conditions

Adjacent Land Use	It is primarily residential.
Roadway Geometrics	Two-lane roadways. Sidewalks are present on the east side of the roadway, and a pedestrian crosswalk in the middle of the segment. The segment features horizontal curves and steady incline.
Comments	After evaluating current critical and pace speeds, it is recommended that a 25-mph speed limit be implemented to be in concurrence with section 2B.13 of the MUTCD. The 25-mph speed limit was obtained by a 5-mph reduction of the critical speed of 35 mph due to the number of access points, residential district density (as defined in section 515). A second 5 mph deduction is made due to a series of horizontal curves which restrict sight distance and for pedestrian and bicyclist safety.

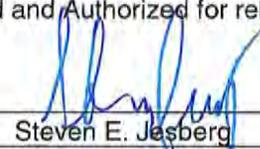
Speed Limit Change? Yes

Existing Speed Limit: 25 MPH

Recommended Speed Limit: 25 MPH

This Survey conforms to section 627 and 40802 of the California Vehicle Code section 2B.13 of the California MUTCD and recommends a speed limit appropriate to facilitate the safe and orderly movement of traffic.

Approved and Authorized for release by the City of Capitola Public Works:

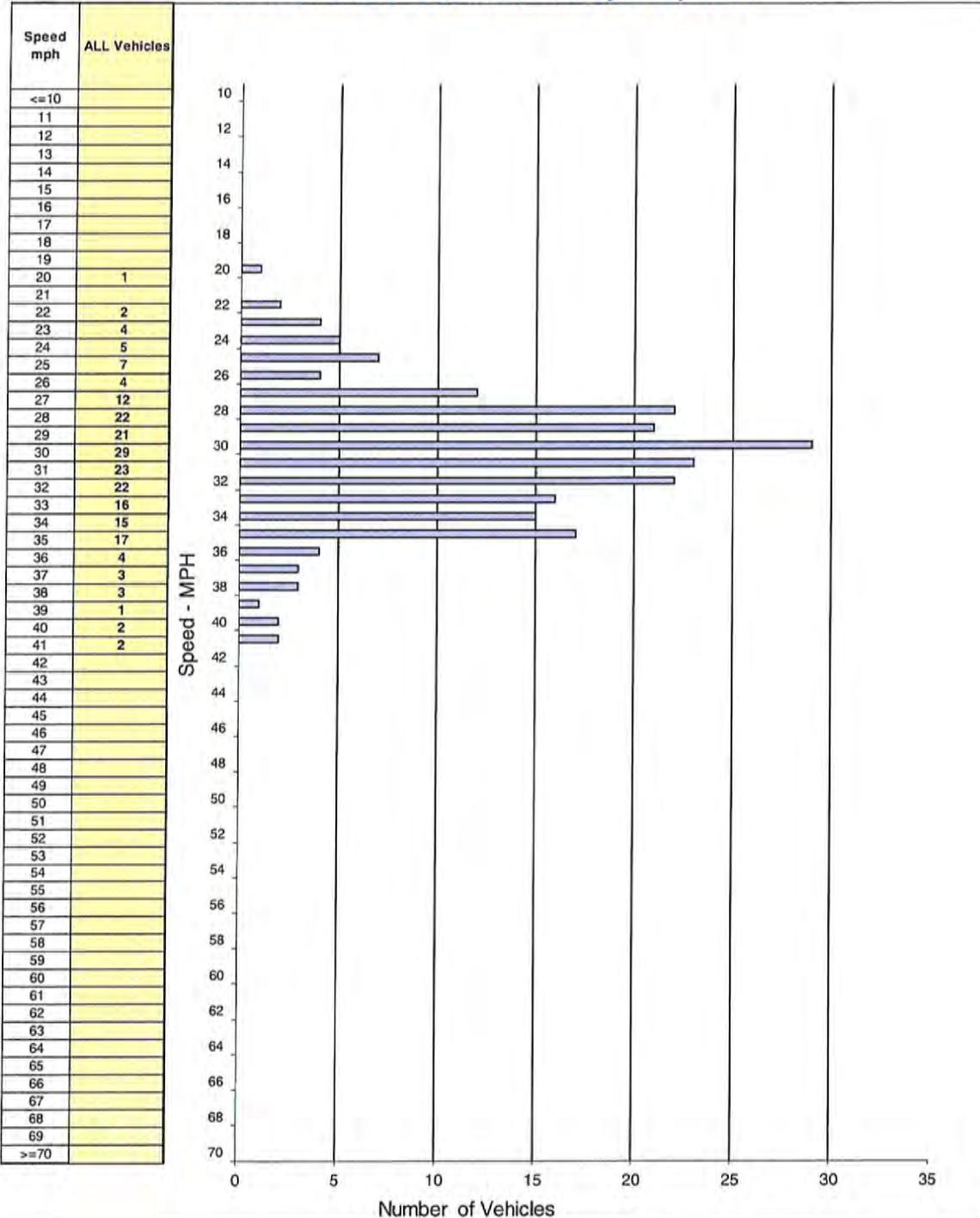
Signed:  **Title:** City Engineer
 Steven E. Jesberg

City of Capitola

DATE: 1/23/2020
 TIME: 14:25-14:55

Location: Wharf Rd 170' N/O Woolsey Cir
 Posted Speed: 25 MPH Clear/Dry Project #: 20-8004-029

Northbound & Southbound Spot Speeds



SPEED PARAMETERS									
Class	Count	Range	50th Percentile	85th Percentile	10 MPH Pace	# In Pace	Percent In Pace	% / # Below Pace	% / # Above Pace
ALL	215	20 - 41	31 mph	34 mph	26 - 35	181	84%	8% / 19	7% / 15

City of Capitola

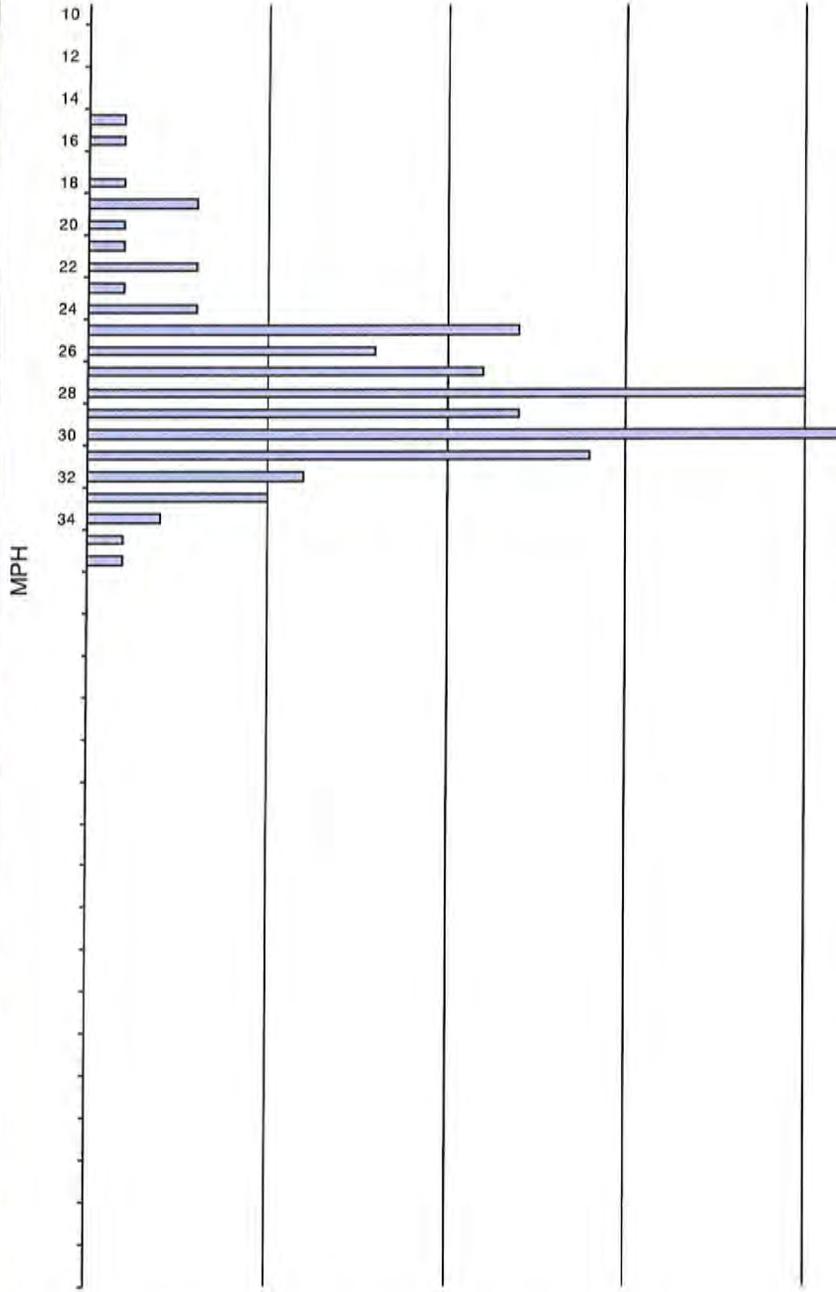
DATE: 1/23/20
TIME: 12:10-13:15

Location: Wharf Rd 225' N/O Grace St
Posted Speed: None Clear/Dry

Project #: 20-8004-028

Northbound & Southbound Spot Speeds

Speed mph	ALL Vehicles
<=10	
11	
12	
13	
14	
15	1
16	1
17	
18	1
19	3
20	1
21	1
22	3
23	1
24	3
25	12
26	8
27	11
28	20
29	12
30	21
31	14
32	6
33	5
34	2
35	1
36	1
37	
38	
39	
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46	
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>=70	



SPEED PARAMETERS									
Class	Count	Range	50th Percentile	85th Percentile	10 MPH Pace	# in Pace	Percent in Pace	% / # Below Pace	% / # Above Pace
ALL	128	15 - 36	28 mph	31 mph	24 - 33	112	88%	9% / 12	4% / 4



Street: Wharf Rd
Limits: Between Cliff/ Stockton & 49th Ave
Direction: NB & SB

Factors

A. Prevailing Speed Data

Location of Survey	Wharf Rd 100' S/O Lincoln Ave
Date of Survey	1/13/2020
Posted Speed Limit (mph)	25 mph
# Speed Data Collected	100
85 th Percentile (mph)	31 mph
10 mph Pace	22-31
Percent in Pace	83%

B. Traffic Factors

Width	32
Length of Segment (mi.)	0.15
Street Classification	Other Principal Arterial

C. Collision History

Date Range Covered	1/1/2017-12/31/2019
Total Accidents	Four total collisions

D. Roadway Conditions

Adjacent Land Use	It is a primarily residential and business district.
Roadway Geometrics	Two-lane roadways. Sidewalks are present on the part of the east side of the roadway, and no bicycle lanes.
Comments	After evaluating current critical and pace speeds, it is recommended that a 25-mph speed limit be implemented to be in concurrence with section 2B.13 of the MUTCD. The 25-mph speed limit was obtained by a 5-mph reduction of the critical speed of 30 mph due to the number of access points, pedestrian and bicyclist safety.

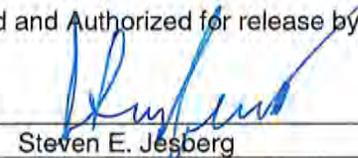
Speed Limit Change? No

Existing Speed Limit: 25 MPH

Recommended Speed Limit: 25 MPH

This Survey conforms to section 627 and 40802 of the California Vehicle Code section 2B.13 of the California MUTCD and recommends a speed limit appropriate to facilitate the safe and orderly movement of traffic.

Approved and Authorized for release by the City of Capitola Public Works:

Signed:  **Title:** City Engineer
 Steven E. Jesberg

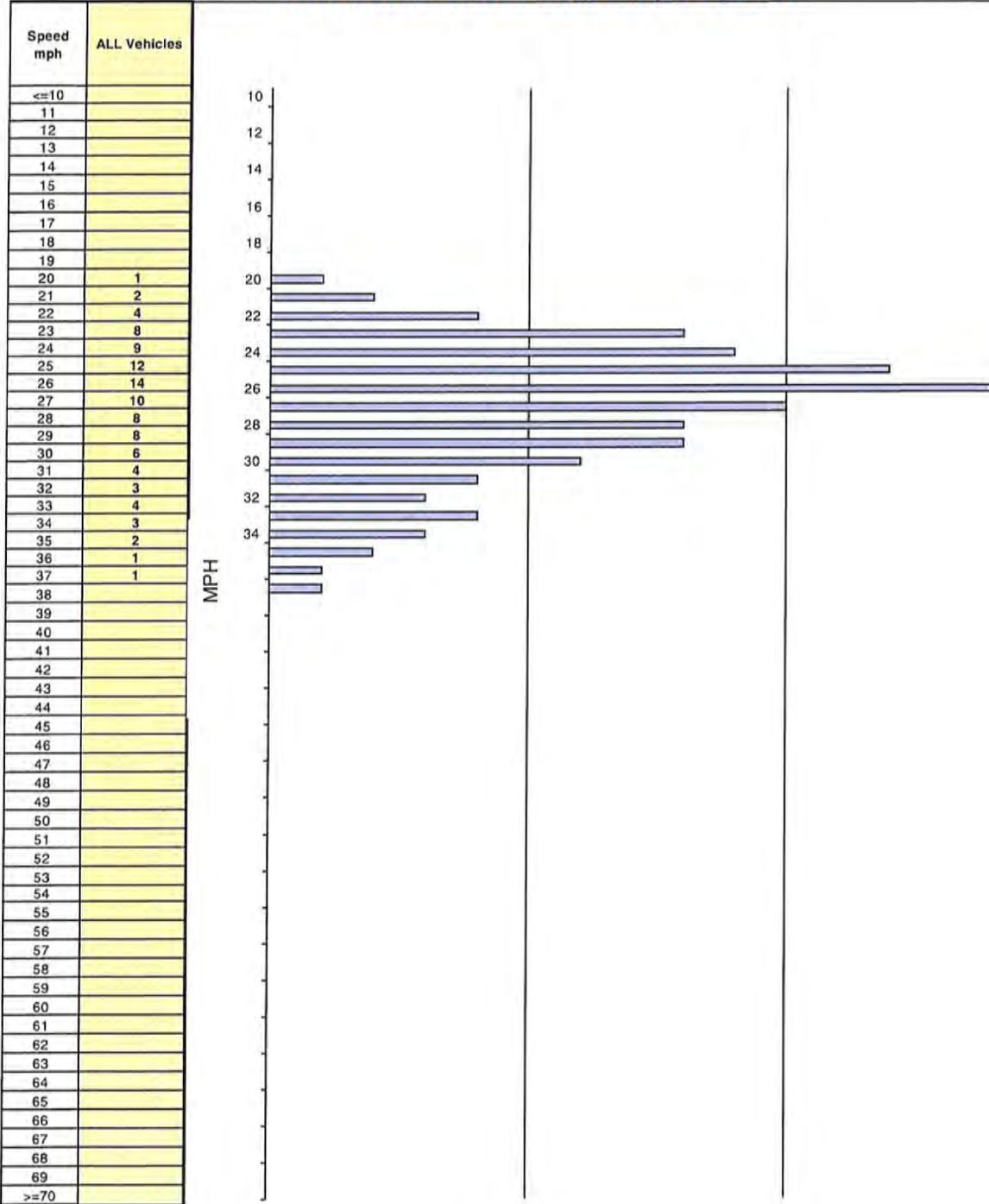
City of Capitola

DATE: 1/13/20
TIME: 14:00-15:20

Location: Wharf Rd 100' S/O Lincoln Ave
Posted Speed: 25 MPH Clear/Dry

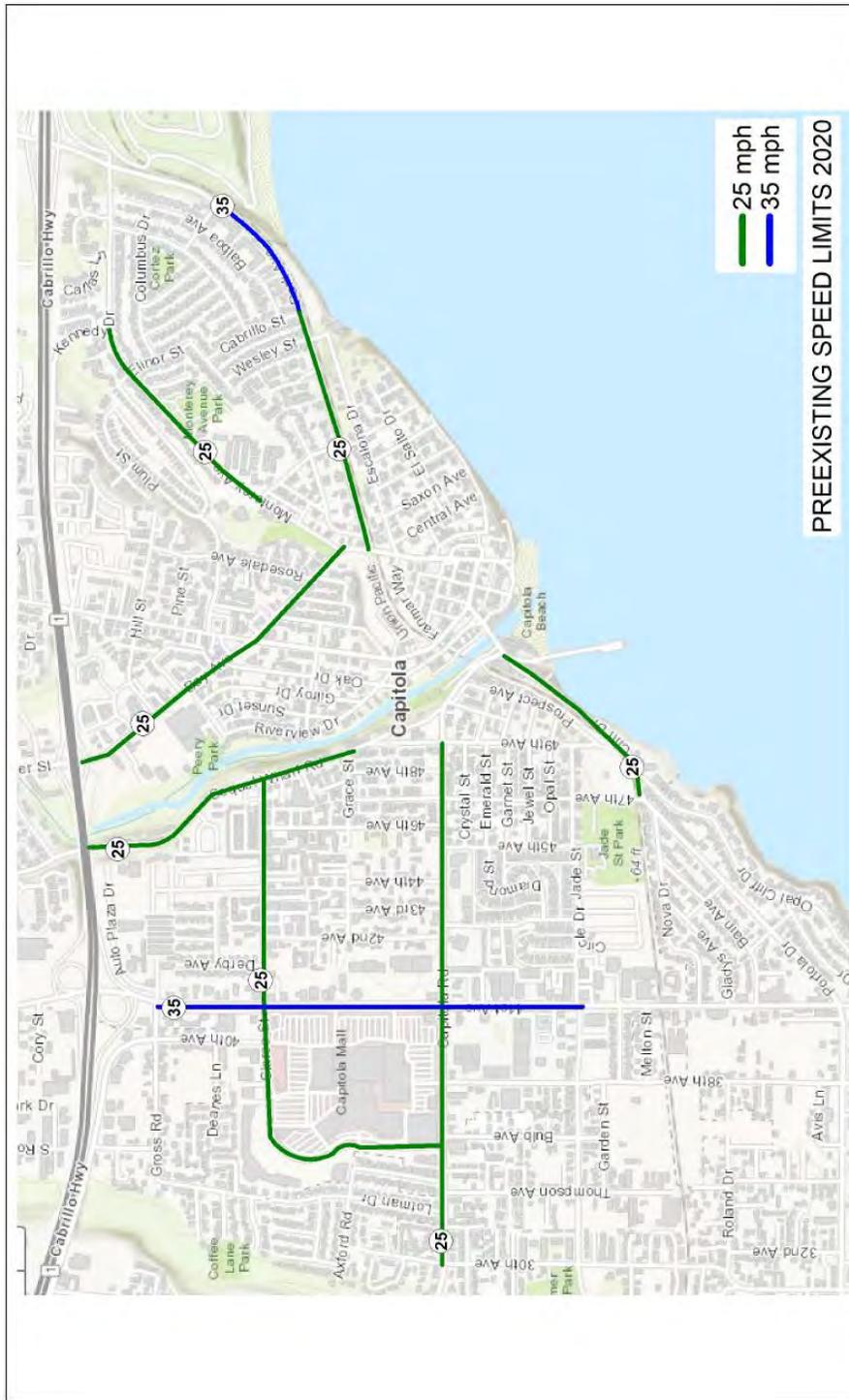
Project #: 20-8004-027

Northbound & Southbound Spot Speeds



SPEED PARAMETERS									
Class	Count	Range	50th Percentile	85th Percentile	10 MPH Pace	# in Pace	Percent in Pace	% / # Below Pace	% / # Above Pace
ALL	100	20 - 37	26 mph	31 mph	22 - 31	83	83%	3% / 3	14% / 14

FIGURE 1



Appendix A Collision Data

	2017		2018		2019		Total
	Injury	Non-Injury	Injury	Non-Injury	Injury	Non-Injury	
38th Ave (NB/SB), Between Brommer St & Portal Dr							0
38th Ave (NB/SB), Between Capitola Rd & Brommer St		2		1	1		4
41st Ave (NB/SB), Between Jade St/Brommer St & Portola Dr	1	2				1	4
41st Ave (NB/SB), Between 41st Ave Main Mall Entrance & Capitola Road		2				3	5
41st Ave (NB/SB), Between Capitola Rd & Jade St/Brommer St	2	6		1		2	11
41st Ave (NB/SB), Between Gross Rd & Clares St	1	15		1		12	29
41st Ave (NB/SB), Between Clares St & 41st Main Mall Entrance		2				3	5
41st Ave (NB/SB), Cory St & Gross Rd		11				8	19
42nd Ave (NB/SB), Between Clares St & Capitola Rd (A. North Of Grace St)				1			1
42nd Ave (NB/SB), Between Clares St & Capitola Rd (B. South of Grace St)							0
47th Ave (NB/SB), Between Capitola Rd & Topaz St							0
47th Ave (NB/SB), Between Topaz St & Portola Dr							0
49th Ave (NB/SB), Between Capitola Rd & Wharf Rd		1					1
Bay Ave (NB/SB), Between Capitola Ave & Hill St	1				1	2	4
Bay Ave (NB/SB), Between Hill St & Sr 1	2	3				2	7

	2017		2018		2019		Total
	Injury	Non-Injury	Injury	Non-Injury	Injury	Non-Injury	
Bay Ave (NB/SB), Between Monterey Ave & Capitola Ave	1	4					5
Bay Ave (NB/SB), Between Sr 1 & S. Main Street	1	2	1			2	6
Brommer St (EB/WB), Between 38th Ave & 41st Ave						1	1
Capitola Ave (NB/SB), Between Bay Ave & Hill St		1		4			5
Capitola Ave (NB/SB), Between Beverly Ave & Bay Ave			2	1		2	5
Capitola Ave (NB/SB), Between Hill St & Soquel Dr	1	1		1		1	4
Capitola Ave (NB/SB), Between Monterey Ave & Stockton Ave	1	1					2
Capitola Ave (NB/SB), Between Riverview Dr & Beverly Ave				2			2
Capitola Ave (NB/SB), Between Stockton Ave & Riverview Dr	2	4					6
Capitola Rd (EB/WB) Between 45th Ave & 49th Ave	2	1	2	6		1	12
Capitola Rd (EB/WB), Between 30th Ave & Clares St		3			2		5
Capitola Rd (EB/WB), Between 38th Ave & 41st Ave		3	1	1			5
Capitola Rd (EB/WB), Between 41st Ave & 45th Ave	1	2	2	5		2	12
Capitola Rd (EB/WB), Between Clares St & 38th Ave						3	3
Clares St (EB/WB), Between 40th Ave & 41st Ave	1			8			9
Clares St (EB/WB), Between 41st Ave & Wharf Rd		1				3	4

	2017		2018		2019		Total
	Injury	Non-Injury	Injury	Non-Injury	Injury	Non-Injury	
Clares St (EB/WB), Between Capitola Rd & 40th Ave		1		6	1	3	11
Cliff Dr (EB/WB), Between Opal Cliff Dr & Wharf Rd		1		3	1	1	6
Esplanade (EB/WB), Between Stockton Ave & Monterey Ave		2		1		2	5
Jade St (EB/WB), Between 41st Ave & 45th Ave			1	2		1	4
Kenedy Dr (EB/WB), Between Sir Francis Ave & Park Ave		2		1			3
Kennedy Dr (EB/WB), Between Monterey Ave & Sir Francis Ave	1						1
Monterey Ave (EB/WB), Between Capitola Ave & Park Ave			1	3	1		5
Monterey Ave (EB/WB), Between Esplanade & Capitola Ave		1		3		1	5
Monterey Ave (EB/WB), Between Park Ave & Bay Ave		1	1	1			3
Monterey Ave (EB/WB), Between Washburn Ave & Kennedy Dr						1	1
Monterey Ave (EB/WB), Between Bay Ave & Washburn Ave		1		2			3
Park Ave (EB/WB), Between Coronado St & Kennedy Ave/Mcgregor Dr	1						1
Park Ave (EBWB), Between Kennedy Dr/Mcgregor Dr & Sr 1		1				1	2
Park Ave (EB/WB), Between Monterey Ave & Coronado St	1	4		1	3		9
Stockton Ave (EB/WB), Between Wharf Road & Capitola Ave		1				1	2
Topaz St (EB/WB), Between 45th Ave & 47th Ave		2		3		1	6

	2017		2018		2019		Total
	Injury	Non-Injury	Injury	Non-Injury	Injury	Non-Injury	
Topaz St (EB/WB), Between 47th Ave & 49th Ave				1		1	2
Wharf Rd (NB/SB), Between 49th Ave & Clares St		1	1	3			5
Wharf Rd (NB/SB), Between Clares St & Robertson St	2	4	1				7
Wharf Rd (NB/SB), Between Cliff Dr/Stockton Ave & 49th Ave		2		1		1	4
Total	22	91	13	63	10	62	261

Appendix B NDS Radar Gun Speed Survey Methodology



Radargun Speed Zone Surveys—We have certified staff in radar gun use. Equipment is only as good as the personnel using it. By properly training our staff, including certification by CHP, we get higher quality data. Additionally, we regularly tune our guns and test them prior to each use.

Methodology for Radar Speed Survey:

- Locations are given to the Field Manager for review and collection planning.
- Data collectors meet with Field Manager minimum one (1) day before count to review requirements, machine locations, and safety issues.
- Radar Speed Surveys are conducted in accordance with the Department of Motor Vehicle Regulations and the Manual on Uniform Traffic Control Devices (MUTCD)
- Radar Units will be certified and calibrated prior to use. Employees conducting the speed surveys will be certified radar specialists.
- A site check is made to access the optimum count location, paying careful attention to concealing the counter so as not to influence the behavior of drivers.
- Surveys will not be conducted during inclement weather or when roadway is wet. Surveys will not be conducted during atypical conditions such as road construction, detours, or traffic accidents.
- A sample of passing cars will be randomly selected with careful attention to ensure that the sample represents the entire traffic stream.
- In platoon flow, only the first vehicle in the platoon will be selected. All vehicles traveling at less than 40 mph and within 200 feet of the lead vehicle or more than 40 MPH and less than 350 from the lead vehicle is considered to be in platoon.
- Unmarked vehicles will be used and nor the surveyor or the equipment will affect the traffic speeds.
- At the conclusion of the radar survey, a letter certifying that “The radar used to measure the speeds for the survey meets or exceeds the minimum operational standards of the National Highway Safety Administration and has been calibrated within three (3) years of the date the radar survey was conducted” shall be provided to the County on company letterhead. As well, copies of the latest calibration certification and license shall be provided.