



## 2018 Monterey County Active Transportation Plan

### 5.7 Marina

#### Demographic Profile

The City of Marina is in the Monterey Peninsula with 21,528 people, as reported by the California Department of Finance 2017 data. The median age in Marina is 36, which is slightly older than the median age of 33 countywide. Approximately 13.6% of Marina’s population is younger than 18 years old. Marina was home to the former Fort Ord, and currently is home to the most ethnically diverse population in the County: 45% are white, 27% Latino, 13% Pacific Islander, 10% Asian, 8% African American.

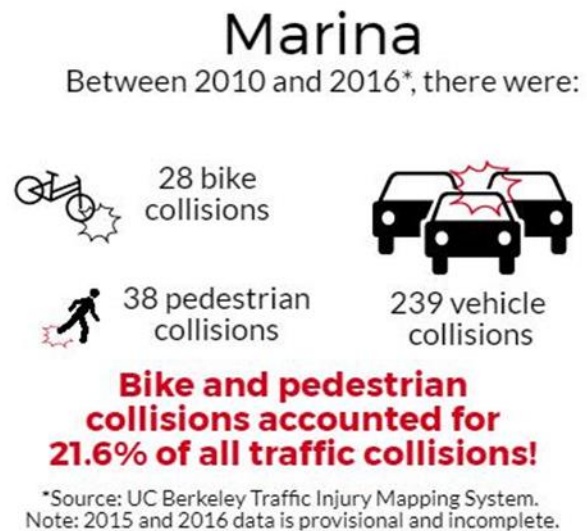
#### Disadvantaged Communities

Active transportation investments are particularly crucial for disadvantaged communities, as these tend to have higher walking and bicycling mode shares. In Marina, approximately 2,200 residents live in a disadvantaged neighborhood where 53% of households live in poverty, 16% do not have access to a car, and nearly 30% have no high school education<sup>1</sup>. In addition, Marina is home to disadvantaged populations as defined by the California Health Disadvantaged Index and the CalEnviroScreen 3.0.

#### Safety Profile

In the City of Marina, from 2010 to 2016, bicycle and pedestrian collisions made up a significant number of all collisions. Of the 305 collisions in Marina between 2010 and 2016 there were 66 collisions that involved bicyclists and pedestrians. Meaning that bicyclists and pedestrians accounted for 21.6% or 1 out of

every 5 collisions. This is alarming given the fact that bicycling and walking mode shares in Marina are approximately 2.6% and 1.1% respectively.



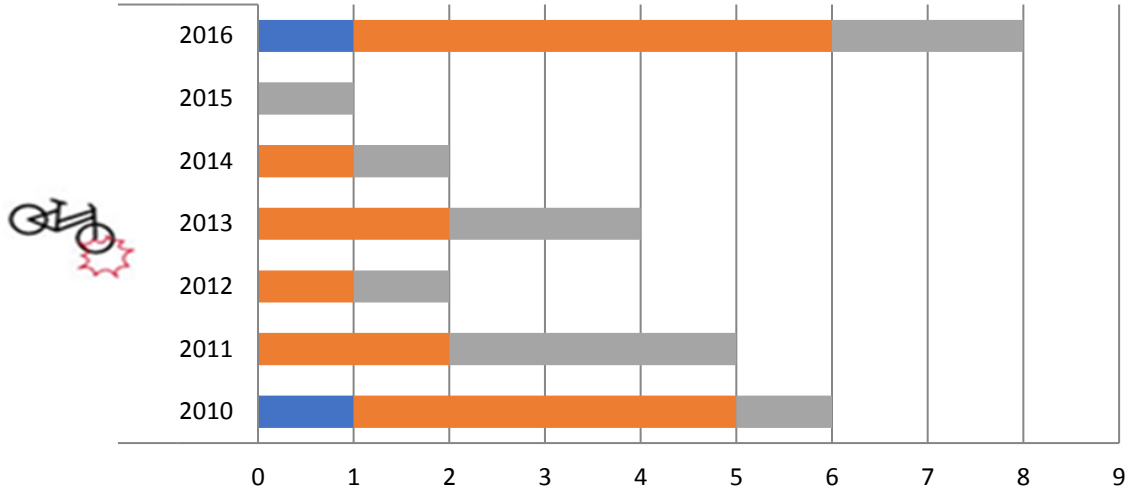
The following charts and maps provide a detailed statistical profile of bike and pedestrian collisions from 2010 to 2016 based on data from the UC Berkeley Traffic Injury Mapping System. Blank values in the charts represent zeros for those categories and years. A chart showing non-pedestrian and non-bicycle collisions is also presented to provide context for the analysis during this time.

<sup>1</sup> Health Disadvantage Index for California: <http://phasocal.org/ca-hdi/>



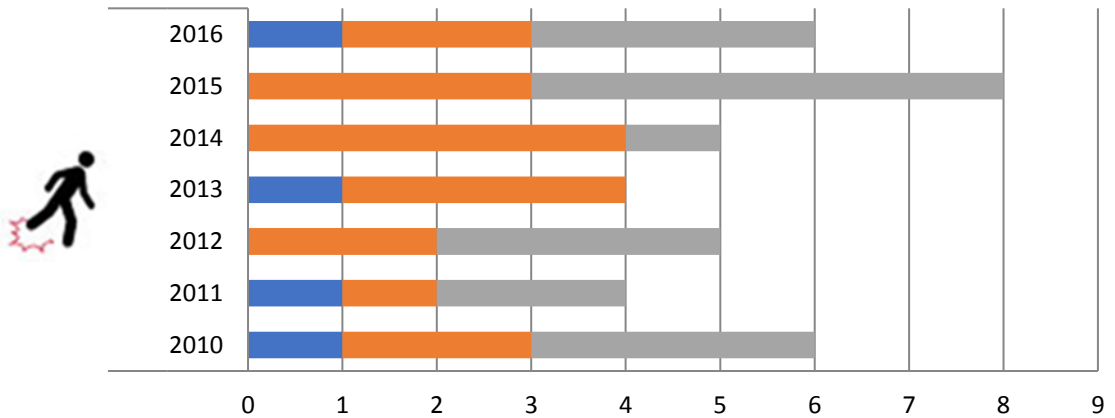
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Bicycle Collisions by Injury Severity: 2010 - 2016



	Y						
	2010	2011	2012	2013	2014	2015	2016
■ 2-Severe Injury	1						1
■ 3-Complaint of Pain	4	2	1	2	1		5
■ 4-Other Visible Injury	1	3	1	2	1	1	2

Pedestrian Collisions by Injury Severity: 2010 - 2016

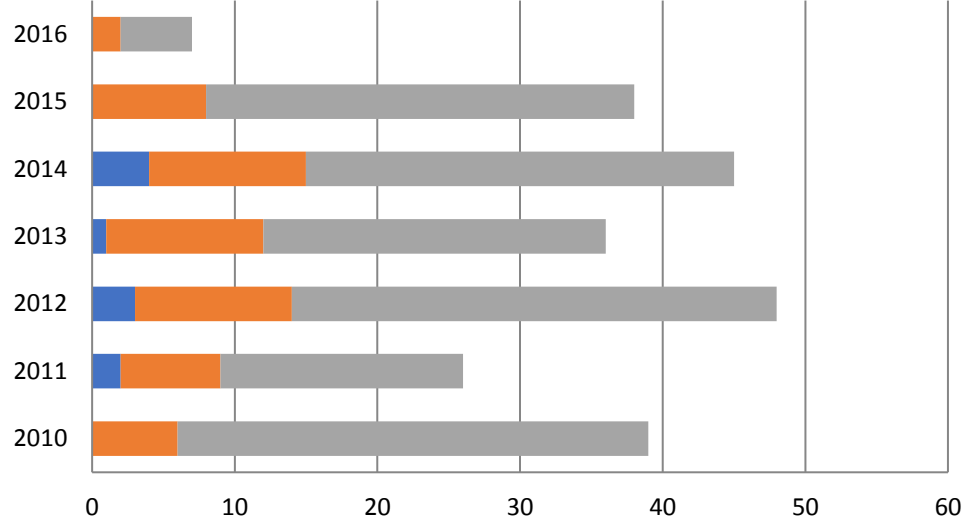


	Y						
	2010	2011	2012	2013	2014	2015	2016
■ 2-Severe Injury	1	1		1			1
■ 3-Other Visible Injury	2	1	2	3	4	3	2
■ 4-Complaint of Pain	3	2	3		1	5	3

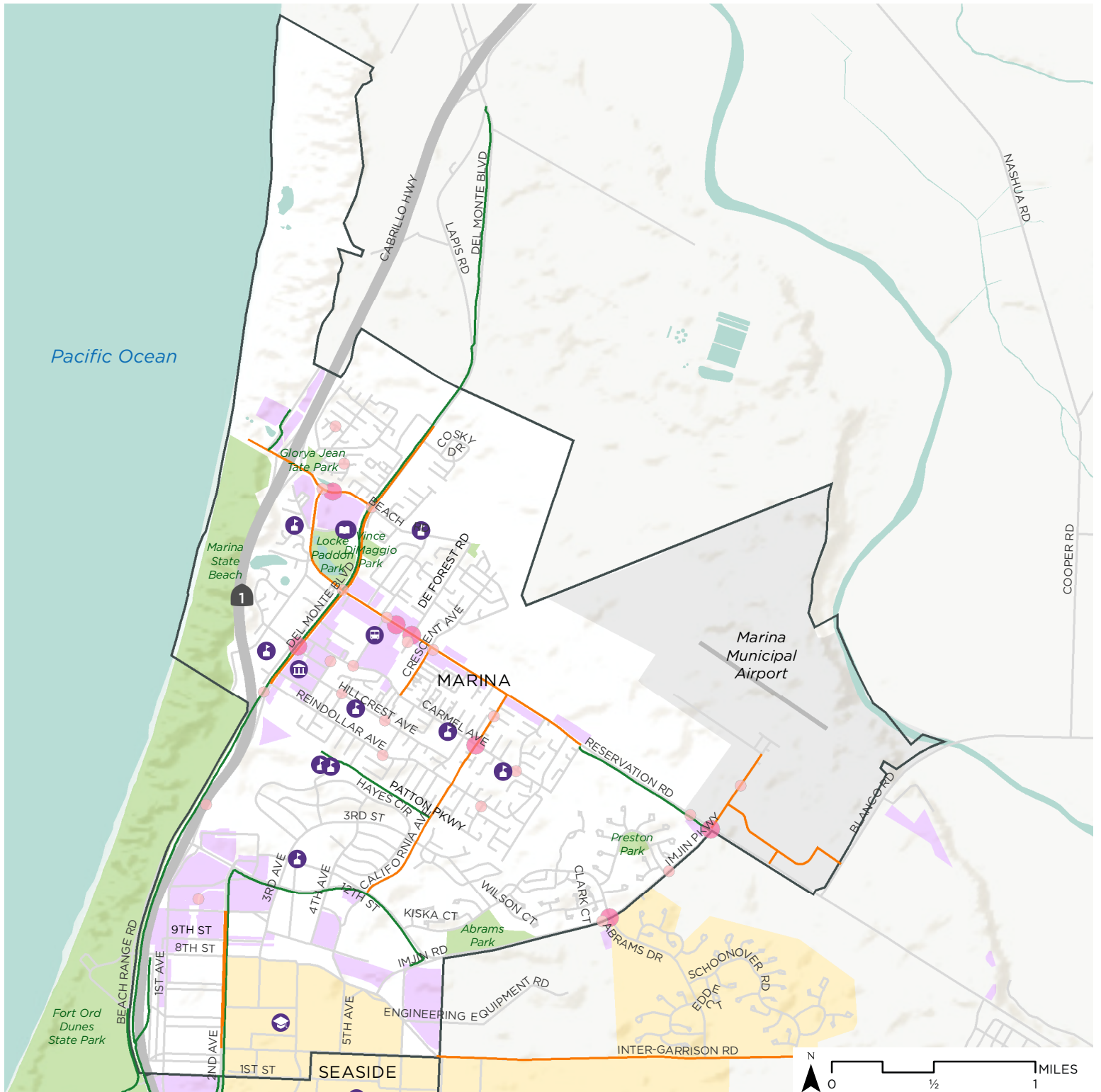


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Vehicle Collisions by Injury Severity: 2010 - 2016



	2010	2011	2012	2013	2014	2015	2016
■ 2-Severe Injury		2	3	1	4		
■ 3-Other Visible Injury	6	7	11	11	11	8	2
■ 4-Complaint of Pain Injury	33	17	34	24	30	30	5



# Marina

## Monterey County Active Transportation Plan

### Existing Bikeways

- Class I Shared Use Path
- Class II Bike Lane
- >>> Uphill bikeway (Slope > 4%)

### Points of Interest

- K-12 School
- College/University
- City Hall
- Transit Center
- Public Library

### Land Use

- Park/Open Space
- Cal State Monterey Bay
- Commercial Area
- City Boundary

### Pedestrian Collisions

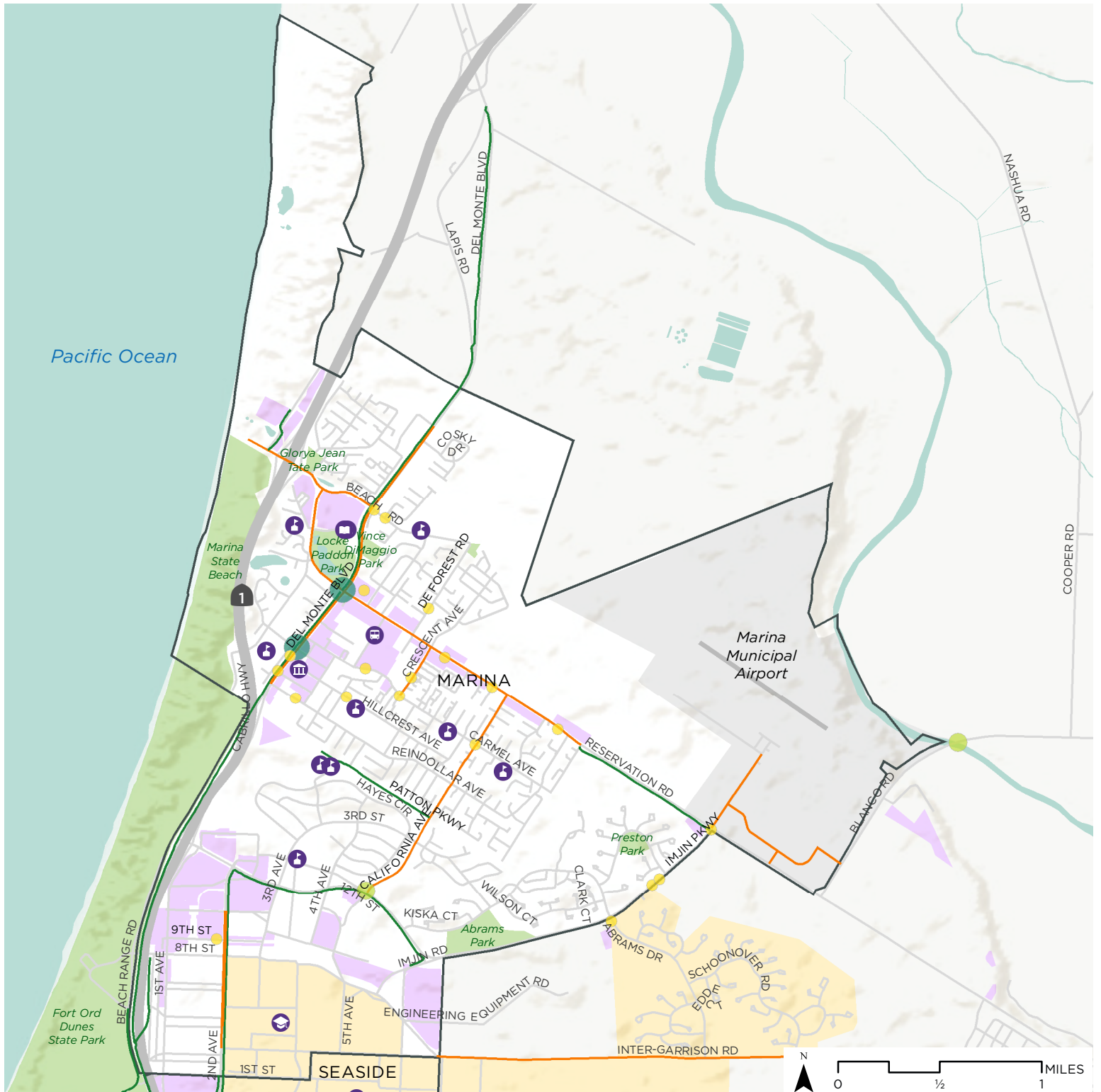
- 1
- 2 - 3



Data provided by Monterey County TAMC, UC Berkeley TIMS 2010-2016. Terrain data by ESRI, NOAA.

Map produced October 2017 by Alta Planning + Design.





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### Bicycle Collisions

- 1
- 2
- 3 - 5



Data provided by Monterey County TAMC, UC Berkeley TIMS 2010-2016. Terrain data by ESRI, NOAA.

Map produced October 2017 by Alta Planning + Design.







## 2018 Monterey County Active Transportation Plan

### Plans, Programs & Policies

This Active Transportation Plan builds on the goals, policies, objectives and programs of other Marina Plans. The bicycle and pedestrian improvements identified in the City’s Plans are included in this Active Transportation Plan.

#### *Marina General Plan*

Marina adopted its most current General Plan in 2000. The following goals, policies and objectives support the projects in this Plan:

- **Community Goal 1.17:** The overall goal of the Marina General Plan is the creation of a community which provides a high quality of life for all its residents; which offers a broad range of housing, transportation, and recreation choices; and which conserves irreplaceable natural resources.
- **Community Infrastructure Policy 3.3.2:** The City of Marina shall ensure that walking and bicycling routes are integral parts of street design and form a safe and preferred transportation network.
- **Community Infrastructure Policy 3.3.7:** The City of Marina shall coordinate with surrounding jurisdictions and agencies, such as TAMC...to pursue projects that develop new pedestrian and bicycle routes and that improve and maintain existing pedestrian and bicycle routes. New routes shall be linked to existing routes wherever possible. The City shall coordinate with these entities to apply for regional funds.

- **Community Infrastructure Policy 3.3.16:** The City of Marina shall consider incorporating facilities, such as bikeways, sidewalks and recreational trails for non-vehicular users, when constructing or improving transportation facilities and when reviewing new development and redevelopment proposals.

#### *Marina Pedestrian and Bicycle Master Plan*

Marina adopted a Pedestrian and Bicycle Master Plan in 2010. This Master Plan is a comprehensive and long-range planning document focused on documenting and improving pedestrian and bicycle facilities. The Master Plan provides guidelines, existing and proposed facilities, safety and education programs and a description of community engagement. The projects listed in this Master Plan are included in this Active Transportation Plan.

#### *Seaside and Marina Safe Walking and Biking to School Plan*

The Seaside and Marina Safe Biking and Walking to School Plan is a partnership between the Cities of Marina, Seaside, TAMC, the Monterey County Health Department, and Ecology Action. The Safe Walking and Biking Plan will provide the cities of Marina and Seaside with a comprehensive approach and tools to reduce the barriers to walking, biking, taking the bus and carpooling to school. This plan will provide the basis for future investments in infrastructure by the local Measure X Safe Routes to Schools program, the SB 1 local road rehabilitation program, and the infrastructure portion of the Active Transportation Program.





## 2018 Monterey County Active Transportation Plan

This Safe Walking and Biking Plan will kick-off in 2018, and will likely result in additional projects beyond those listed here.

### Public Comments

In addition to including projects identified in other City of Marina Plans, the improvements included in the Active Transportation Plan draw from this Plan’s extensive public outreach campaign. The following table describes the comments received from the TAMC Bicycle and Pedestrian Committee, the TAMC Technical Advisory Committee and through public participation via the online Wikimapping tool.

 <b>Pedestrian Improvements</b>
<ul style="list-style-type: none"> <li>• Pedestrian connectivity improvements between the Marina Library and the Monterey Bay Sanctuary Scenic Trail</li> <li>• Intersection improvements at               <ul style="list-style-type: none"> <li>○ Del Monte Blvd &amp; Palm Ave</li> <li>○ Carmel Ave &amp; Monterey Bay Sanctuary Scenic Trail</li> </ul> </li> </ul>
 <b>Bicycling Improvements</b>
<ul style="list-style-type: none"> <li>• Bike Route (Sharrows) for:               <ul style="list-style-type: none"> <li>○ Dunes Dr</li> <li>○ Marina Green Dr</li> <li>○ Healy Ave</li> <li>○ Abdy Way</li> <li>○ Cardoza Ave</li> <li>○ Beach Rd</li> <li>○ De Forest Rd</li> <li>○ Seacrest Ave</li> <li>○ Carmel Ave</li> </ul> </li> <li>• Bike lanes at:               <ul style="list-style-type: none"> <li>○ Abrams Dr</li> <li>○ Reindollar Ave</li> <li>○ Bostick Ave</li> <li>○ Bayer St</li> </ul> </li> <li>• Protected bike lanes along Reservation Rd</li> </ul>



## 2018 Monterey County Active Transportation Plan

### Proposed Projects

The following table represents recommended active transportation projects. The projects are ranked based on their priority within the City of Marina. Projects that scored within the top 25% of projects countywide are noted as regional priorities.

#### *Bicycle Infrastructure Improvements*

Rank	ATP ID#	Name	Location		Type	Length (miles)	Cost Estimate	Notes
1	MAR-1	Reservation Rd	Salinas Ave	Del Monte Blvd	protected bike lane	1.39	\$1,660,633	*Regional priority
2	MAR-7	Reservation Rd	Salinas Ave	Blanco Rd	bike lane	1.39	\$72,950	*Regional priority
3	MAR-6	Imjin Rd/12th St	Imjin Rd	Reservation Rd	bike lane	2.72	\$142,453	*Regional priority
4	MAR-30	Crescent Ave	Reservation Rd	end of Reservation Rd	bike lane	0.49	\$25,829	
5	MAR-28	Beach Rd	Monte Rd	Costa del Mar Rd	bike route	0.65	\$7,850	
6	MAR-27	Cardoza Ave	Beach Rd	end of Cardoza Ave	protected bike lane	0.49	\$585,403	*City of Marina priority
7	MAR-33	Carmel Ave	Sunset Ave	Salinas Ave	bike route	1.27	\$3,473	
7	MAR-31	Seacrest Ave	Carmel Ave	Reservation Rd	bike route	0.29	\$15,040	
9	MAR-35	Reindollar Ave	Bostick Ave	Monte Rd	bike route	1.27	\$15,426	
10	MAR-36	Hillcrest Ave	Redwood Dr	end of Hillcrest Ave	bike route	0.84	\$10,151	
11	MAR-10	Robin Dr	Lake Dr	Reservation Rd	bike route	0.02	\$290	
12	MAR-38	Patton Pkwy Path	Reindollar Ave	Patton Pkwy	bike path	0.50	\$381,486	
13	MAR-2	Marina Green Dr	Del Monte Blvd	Paul Davis Dr	bike lane	0.09	\$4,611	
14	MAR-21	Carmel Ave	Sunset Ave	Monte Rd	bike route	0.16	\$1,982	
15	MAR-8	Imjin Rd	8th St	12th St	bike lane	0.33	\$17,044	
16	MAR-14	Crestview Ct	Reservation Rd	end of Crestview Ct	bike lane	0.12	\$6,222	
17	MAR-23	Neeson Rd	Imjin Rd	end of Neeson Rd	bike route	0.53	\$6,374	
17	MAR-29	de Forest Rd	Costa del Mar Rd	Reservation Rd	bike route	0.40	\$4,894	





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Rank	ATP ID#	Name	Location		Type	Length (miles)	Cost Estimate	Notes
18	MAR-24	Viking Ln	Reservation Rd	Peninsula Dr	bike route	0.11	\$1,391	
19	MAR-12	Lynscott Dr	Carmel Ave	Reservation Rd	bike route	0.31	\$3,704	
20	MAR-9	Salinas Ave	Carmel Ave	Reservation Rd	bike route	0.27	\$3,322	
22	MAR-11	Lake Dr	Robin Dr	174' E of Hwy 1	bike route	0.51	\$6,194	
22	MAR-18	Crescent St	Reindollar Ave	end of Crescent St	bike route	0.13	\$1,613	
22	MAR-22	Palm Ave	Lake Dr	Clarke Pl	bike route	0.03	\$340	
22	MAR-32	Palm Ave	Lake Dr	Sunset Ave	bike route	0.35	\$4,289	
26	MAR-34	Bayer St - Bostick Ave	Reindollar Ave	Reservation Rd	bike route	0.59	\$7,126	
26	MAR-37	Sunset Ave	Reindollar Ave	Carmel Ave	bike route	0.28	\$3,430	
28	MAR-13	Bayer Dr	Bostick Ave	end of Bayer Dr	bike route	0.42	\$5,052	
29	MAR-39	Bayer Dr - California Ave MUP	Carmel Ave/Salinas Ave	California Ave	bike route	0.86	\$10,429	
30	MAR-26	Melanie Rd	Peninsula Dr	Beach Rd	bike route	0.33	\$4,047	
31	MAR-19	Vaughn Ave	Reindollar Ave	Carmel Ave	bike route	0.28	\$3,439	
31	MAR-3	Paul Davis Rd	Marina Green Dr	Healy Ave	bike lane	0.21	\$2,553	
31	MAR-42	Lake Dr	174' E of Hwy 1	end of Lake Dr	bike lane	0.29	\$3,551	
34	MAR-15	Redwood Dr	Reindollar Ave	end of Redwood Dr	bike route	0.35	\$4,281	
35	MAR-20	Crescent Ave + Extension	Hillcrest Ave	Carmel Ave	bike lane	0.14	\$7,591	
36	MAR-16	Berney Dr	Reindollar Ave	Hillcrest Ave	bike route	0.10	\$1,183	
37	MAR-25	Peninsula Dr	Viking Ln	Melanie Rd	bike route	0.03	\$372	
37	MAR-5	Healy Ave	Marina Dr	Abby Way	bike route	0.15	\$1,755	
39	MAR-17	Ellen Ct	Reindollar Ave	end of Ellen Ct	bike route	0.15	\$1,818	
39	MAR-4	Abby Way	Aaron Way	Drew St	bike route	0.47	\$5,687	



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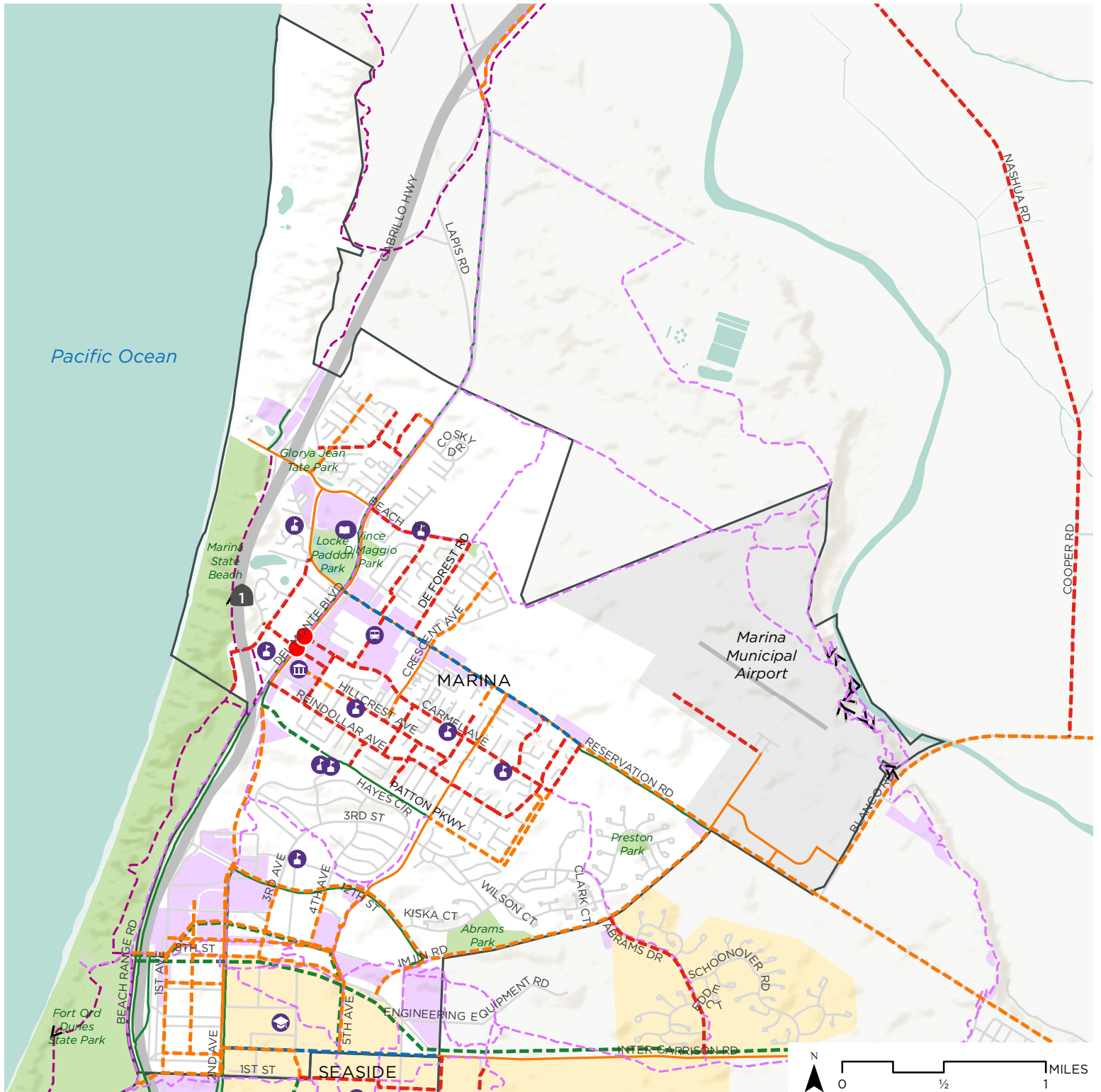
### *Pedestrian Infrastructure Improvements*

Location	Start	End	Type	Description	Miles	Cost
Abdy Way	Healy Ave	Drew St	Sidewalk	Sidewalks	0.31	\$1,142,381
Beach Rd	Cardoza Ave	Fitzgerald Cir	Sidewalk	Sidewalks	0.52	\$1,916,252
Begonia Cir/Michael Dr	Beach Rd	Turn in Michael Dr	Sidewalk	Sidewalks	0.13	\$479,063
Cardoza Ave	Abdy Way	Belle Dr	Sidewalk	Sidewalks	0.1	\$368,510
Carmel Ave	Bayer Street	Salinas Ave	Sidewalk	Sidewalks	0.06	\$221,106
Carmel Ave	Crescent Ave	Vaughan Ave	Sidewalk	Sidewalks	0.08	\$294,808
Carmel Ave	Del Monte Blvd	Sunset Ave	Sidewalk	Sidewalks	0.16	\$589,616
Carmel Ave (both sides)	Seacrest Ave	Crescent Ave	Sidewalk	Sidewalks	0.28	\$1,031,828
Crescent Ave	Carmel Ave	Reservation Rd	Sidewalk	Sidewalks	0.27	\$994,977
Del Monte Blvd	Palm Ave	Mortimer Lane	Sidewalk	Sidewalks	0.17	\$626,467
Del Monte Blvd	Reservation Road	Beach Road	Sidewalk	Sidewalks	0.44	\$1,621,444
Del Monte Blvd & Palm Ave			Intersection	Restripe Crosswalks		\$1,120* *striping cost only
Del Monte Blvd & Reservtion Rd			Intersection	Restriping: Remove one of two right turn lanes; Restripe Crosswalks		*TBD
Drew St	Abdy Way	Lakewood Dr	Sidewalk	Sidewalks	0.34	\$1,252,934
Healy Ave	Abdy Way	Marina Drive	Sidewalk	Sidewalks	0.15	\$552,765
Lake Dr	Messinger Dr	Hilo Ave	Sidewalk	Sidewalks	0.24	\$884,424
Marina Drive	Legion Way	Healy Ave	Sidewalk	Sidewalks	0.08	\$294,808
Paddon Pl	Lake Dr	Marina Dr	Sidewalk	Sidewalks	0.16	\$589,616
Palm Ave	Elm Ave	Sunset Ave	Sidewalk	Sidewalks	0.11	\$405,361
Redwood Drive	Hillcrest Ave	Carmel Ave	Sidewalk	Sidewalks	0.12	\$442,212



### 2018 Monterey County Active Transportation Plan

Reindollar Ave	California Ave	Eddy Circle	Sidewalk	Sidewalks	0.08	\$294,808
Reindollar Ave	Vera Lane	Vaughan Ave	Sidewalk	Sidewalks	0.16	\$589,616
Reindollar Ave	Del Monte Blvd	Sunset Ave	Sidewalk	Sidewalks	0.18	\$663,318
Reservation Rd	Crestview Ct	Lynscott Dr	Sidewalk	Sidewalks	0.36	\$1,326,636
Salinas Ave	Carmel Ave	Reservation Rd	Sidewalk	Sidewalks	0.27	\$994,977
Seacrest Ave	Carmel Ave	Reservation Rd	Sidewalk	No Description	0.29	\$1,068,679
Zanetta Dr	Reindollar Ave	Hillcrest Ave	Sidewalk	Sidewalk	0.13	\$479,063



# Marina

## Monterey County Active Transportation Plan

### Existing Bikeways

- Class I Shared Use Path
- Class II Bike Lane

### Proposed Pedestrian Improvements

- Intersection

### Proposed Bikeway Improvements

- Class I Shared Use Path
- Class II Bike Lane
- Class III Bike Route
- Class IV Protected Bike Lane
- Fort Ord Rec Trail and Greenway
- Monterey Bay Sanctuary Scenic Trail
- Uphill bikeway (Slope > 4%)

### Points of Interest

- K-12 School
- College/University
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