

**COUNTY OF SAN MATEO  
PLANNING AND BUILDING DEPARTMENT**

**DATE:** April 27, 2022

**TO:** Planning Commission

**FROM:** Planning Staff

**SUBJECT:** EXECUTIVE SUMMARY: Consideration of Connect the Coastside, the San Mateo County Midcoast Comprehensive Transportation Management Plan

County File Number: PLN 2014-00430  
(San Mateo County Planning and Building Department)

**PROPOSAL**

Policy 2.53 (*Transportation Management Plan*) of the 2021 California Coastal Commission-certified Midcoast Local Coastal Program (LCP) requires San Mateo County to prepare a Comprehensive Transportation Management Plan (CTMP) that addresses the transportation impacts of future development. On May 20, 2014, the Board of Supervisors approved Resolution No. 073197, executing an agreement with DKS Associates to develop the CTMP, which was branded “Connect the Coastside” (CTC or Plan). Connect the Coastside’s Study Area includes land area south of the Tom Lantos Tunnels (Devil’s Slide) to the southern terminus of Half Moon Bay, including areas west and east of Highway 1 (to Interstate 280), as well as land areas proximate to Highway 92, from Highway 1 to Interstate 280. Developing CTC involved:

1. Assessing existing development and transportation conditions in the Study Area;
2. Projecting cumulative development and associated transportation system impacts;
3. Identifying potential infrastructure, policies, programs, and plans to mitigate impacts based on the analysis and building upon previous planning efforts, like the Highway 1 Safety and Mobility Studies; and
4. Developing and refining recommendations through extensive and iterative public engagement.

Stakeholder and community engagement was a critical part of the planning process to ensure that the Plan reflects the needs of the community and to provide oversight for the assumptions, results of analysis, and final recommendations in the Plan. Development of CTC involved collaboration between the Department and a team of

consultants, community stakeholders, a Technical Advisory Committee (TAC), other County departments, and agency partners.

CTC recommends improvements such as (CTC, p. 100 – 161):

- Physical infrastructure, such as the Multimodal Parallel Trail a Class 1 Bicycle and Pedestrian Path on the east side of Highway 1;
- Future planning studies, such as a comprehensive coastside parking study;
- Policies, such as recommended LCP amendments to incorporate new transportation metrics;
- Programs, such as a coordinated traffic control approach in partnership with other cities for large visitor-serving events; and
- Fee structures for future development to help fund recommendations.

Recommendations are considered for implementation over the next 30 years. Connect the Coastside serves as a roadmap for future actions; future implementation may lead to amendments to various County regulations, including proposed amendments to the Local Coastal Program. The Final Draft CTC will be submitted for consideration by the Board of Supervisors. Board adoption of CTC does not amend existing policies; CTC recommends future actions necessary to foster implementation of its recommendations. Actions to implement CTC, including funding requests, will be brought to the Planning Commission, Board, and/or California Coastal Commission for consideration as required depending on the specific implementation action, in the future.

## **RECOMMENDATION**

1. That the Planning Commission recommend that the Board of Supervisors find Connect the Coastside: the San Mateo County Midcoast Comprehensive Transportation Management Plan, to be consistent with the County General Plan and Local Coastal Program.
2. That the Planning Commission recommend that the San Mateo County Board of Supervisors adopt a resolution to adopt Connect the Coastside: the San Mateo County Midcoast Comprehensive Transportation Management Plan.

## **SUMMARY**

Connect the Coastside has been in development since 2014. The project team produced four technical background reports and circulated three drafts of the Plan for public comment, providing responses to comments and incorporating feedback where feasible and appropriate. Comments on the Final Draft and staff responses are included in this report. The Final Draft of Connect the Coastside has been reviewed for consistency with the LCP and General Plan policies, specifically with respect to

Locating and Planning New Development, Public Works and Transportation, Agriculture and Soil Resources, Sensitive Habitats, Visual Resources, Shoreline Access, Natural and Man-made Hazards, and Recreation. Planning staff has reviewed the project and concluded that it complies with the County's General Plan and LCP, and specifically meets the requirements of LCP Policy 2.53.

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**COUNTY OF SAN MATEO  
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**DATE:** April 27, 2022

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**SUBJECT:** Consideration of Connect the Coastside: the San Mateo County Midcoast Comprehensive Transportation Management Plan.

County File Number: PLN 2014-00430  
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**PROPOSAL**

*Background*

In 2012, the California Coastal Commission certified a package of amendments known as the Midcoast Update to San Mateo County's Local Coastal Program (LCP). Policy 2.53 (*Transportation Management Plan*) of the Updated Midcoast LCP requires San Mateo County to prepare a Comprehensive Transportation Management Plan (CTMP) that addresses the transportation impacts of future development.

*Policy 2.53 Transportation Management Plan*

*Develop a comprehensive transportation management plan to address the cumulative traffic impacts of residential development, including single-family, two-family, multi-family, and second dwelling units, on roads and highways in the entire Midcoast, including the City of Half Moon Bay. The plan shall be based on the results of an analysis that identifies the total cumulative traffic impact of projected new development at LCP buildout and shall propose specific LCP policies designed to offset the demand for all new vehicle trips generated by new residential development on Highway 1, Highway 92, and relevant local streets, during commuter peak periods and peak recreation periods; and policies for new residential development to mitigate for residential development's significant adverse cumulative impacts on public access to the beaches of the Midcoast region of San Mateo County.*

*The plan shall thoroughly evaluate the feasibility of developing an in-lieu fee traffic mitigation program, the expansion of public transit, including buses and shuttles, and development of a mandatory lot merger program.*

The effort to develop the CTMP was branded “Connect the Coastside” (CTC or Plan). CTC’s Study Area (Map 1, p.4 of Final Draft CTC, Attachment C) includes land area south of the Tom Lantos Tunnels (Devil’s Slide), extending to the southern terminus of the City of Half Moon Bay, including areas west and east of Highway 1 (to Interstate 280), as well as land areas proximate to Highway 92, from Highway 1 to Interstate 280. The Study Area includes the unincorporated Midcoast communities of Montara, Moss Beach, Princeton, El Granada, and Miramar. Developing CTC involved:

1. Assessing existing development and transportation conditions in the Study Area;
2. Projecting cumulative development and associated transportation system impacts;
3. Identifying potential infrastructure, policies, programs, and plans to mitigate impacts based on the analysis and building upon previous planning efforts, like the Highway 1 Safety and Mobility Studies; and
4. Developing and refining recommendations through extensive and iterative public engagement.

### Community Outreach

Stakeholder and community engagement was a critical part of the planning process to ensure that CTC reflects the needs of the community, and to provide oversight for the assumptions, results of analysis, and final recommendations in the Plan. The San Mateo County Planning and Building Department (Department) managed the development of CTC and worked in collaboration with a team of consultants, community stakeholders, and a Technical Advisory Committee (TAC) which included the City of Half Moon Bay, Caltrans, other County departments, and agency partners.

The CTC project team used a variety of methods to connect with the community and identify priorities. Methods included: dedicated project website, in-person and virtual workshops, public presentations, email updates, public meeting presentations, focus groups, online and paper surveys, and distributing fact sheets. Engagement included specific outreach with monolingual Spanish-speaking stakeholders.

Based on feedback gathered from the community outreach, CTC established goals to guide future recommendations:

- Goal 1:** Improve existing traffic and roadway conditions on the Midcoast.
- Goal 2:** Lessen the cumulative traffic impacts from future development on the Midcoast.
- Goal 3:** Increase opportunities for walking, biking, and riding transit on the Midcoast to provide an alternative to motor vehicles, reduce roadway traffic, promote

environmental sustainability, and ensure people of all ages and abilities can travel.

**Goal 4:** Respect the character of Midcoast communities and protect coastal and environmental resources.

**Goal 5:** Maintain and improve access to coastal resources for both residents and visitors.

Connect the Coastside used the transportation metrics of level of service and delay to document the source and extent of traffic congestion impacts in the Study Area under both existing and forecasted (LCP buildout) conditions. Stakeholders desired CTC to respond to both existing safety and congestion impacts and future impacts due to projected growth.

### Plan Recommendations

Connect the Coastside recommends improvements for roadways and intersections (access points), bicycle and pedestrian facilities, transit, and parking (CTC p.100 – 161, Attachment C). Recommendations take the form of:

- Physical infrastructure, such as the Multimodal Parallel Trail, a Class 1 Bicycle and Pedestrian Path on the east side of Highway 1;
- Future planning studies, such as a comprehensive coastside parking study;
- Policies, such as recommended LCP amendments to incorporate new transportation metrics;
- Programs, such as a coordinated traffic control approach in partnership with other cities for large visitor-serving events; and
- Fee structures for future development to contribute funding to implement recommendations.

Recommendations are considered for implementation over the next 30 years to address existing conditions and mobility needs, as well as respond to predicted growth in the Study Area. Proposed infrastructure recommendations are concentrated in the unincorporated Midcoast communities and along Highways 1 and 92. No specific improvements are proposed within the Half Moon Bay city limits as the County does not have jurisdiction within the City of Half Moon Bay; however, CTC recommendations are aligned with the 2020 City of Half Moon Bay's Local Coastal Land Use Plan (LCLUP) and have been discussed with Half Moon Bay staff (CTC p. 180-181).

The Final Draft CTC is included as Attachment C and meets the criteria of LCP Policy 2.53. CTC and its appendices include:

- Background and area context
- Summary of engagement strategies and findings
- Overarching vision, goals, and objectives
- Existing and projected land use conditions, including a feasibility analysis of the development of a mandatory lot merger program
- Existing and recommended transportation performance standards and policies
- Existing transportation conditions and projected conditions due to growth and based on impact of projected new development at LCP buildout
- Recommendations for infrastructure and service improvements for people driving, walking, bicycling, and taking transit
- Recommendations for support programs, policies, and plans, including references to potential LCP amendments
- Implementation strategies, planning-level project costs and potential funding sources, including preliminary transportation impact mitigation fee calculations
- Reference project reports, data collection, and traffic analysis worksheets

The Department has prepared CTC to address the mobility needs of Midcoast residents and visitors, to protect coastal resources and public access, and improve the livability for Midcoast residents. Connect the Coastside serves as a roadmap for future actions; future implementation may lead to amendments to various County regulations, including proposed amendments to the Local Coastal Program.

Materials from the CTC planning process, including reports, background information, presentations, and meeting agendas, can be found on the project website at <https://planning.smcgov.org/connect-coastside>.

#### Planning Commission Action

The Final Draft CTC will be submitted for consideration by the Board of Supervisors. Board adoption of CTC does not amend existing General Plan or Local Coastal Program policies; CTC recommends future actions necessary to foster implementation of its recommendations, which could include future amendments to existing General Plan or Local Coastal Program policies. Actions to implement CTC, including funding requests, will be brought to the Planning Commission, Board, and/or California Coastal

Commission for consideration as required depending on the specific implementation action, in the future.

The Planning Commission could find that CTC conforms to the policies in the County General Plan and/or Local Coastal Program and recommend that the Board adopt the Plan. Alternatively, the Planning Commission could find that the CTC does not conform to the relevant policies and recommend that the Board not adopt the Plan, or the Planning Commission could recommend the Board adopt the Plan with modifications.

### **RECOMMENDATIONS**

1. That the Planning Commission recommend that the Board of Supervisors find Connect the Coastside: The San Mateo County Midcoast Comprehensive Transportation Management Plan, to be consistent with the County General Plan and Local Coastal Program.
2. That the Planning Commission recommend that the San Mateo County Board of Supervisors adopt a resolution to adopt Connect the Coastside: The San Mateo County Midcoast Comprehensive Transportation Management Plan.

### **BACKGROUND**

Report Prepared By: Chanda Singh, Senior Transportation Planner, 650/363-1853

Applicant: County of San Mateo Planning and Building Department

Owner: Various

Location: Study Area includes land area south of Tom Lantos Tunnels (Devil's Slide), extending to the southern terminus of the City of Half Moon Bay, including areas west and east of Highway 1 (to Interstate 280), as well as land areas proximate to Highway 92, from Highway 1 to Interstate 280.

APNs: Various

Existing Zoning: Right-of-way adjacent to various County of San Mateo districts including R-1/S-17/DR/CD, R-1/S-94/DR/CD, PAD/CD, M-1/DR/CD, EG/DR, RM-CZ/DR/CD, RM-CZ/CD, RM

General Plan/Local Coastal Program Designation: Right-of-way adjacent to various County of San Mateo General Plan designations including Agriculture, Recreation, Public Recreation, Coastside Commercial Recreation, Commercial, Neighborhood Commercial, Residential, Medium Density Residential, High Density Residential, Airport, Open Space.

Sphere-of-Influence: City of Half Moon Bay



Surrounding Land Uses and Setting: The Plan’s Study Area is in and near urban areas of the Midcoast along Highway 1, including Montara, Moss Beach, Princeton, El Granada, and Miramar where land uses include residential, commercial, agricultural, industrial, airport, open space, and recreational uses. North of Montara, the Plan’s Study Area is in a rural portion of the Midcoast along Highway 1, where land uses are primarily open space and recreational uses. East of Half Moon Bay along Highway 92, the Plan’s Study Area is in a rural portion of San Mateo County, where land uses include agriculture, residential, commercial, quarry, waste disposal, and open space uses.

Environmental Evaluation: Adoption of CTC is not a project under the California Environmental Quality Act (CEQA); see Section 15378 of the California Environmental Quality Act (CEQA) Guidelines. Future actions to implement CTC may be subject to CEQA review. Refer to the Environmental Considerations Memorandum (Attachment D) for additional discussion.

Chronology:

<u>Date</u>	<u>Action</u>
August 8, 2012	- Coastal Commission certifies Midcoast Local Coastal Program (LCP) update, including new LCP Policy 2.53, calling for the development of a Comprehensive Transportation Management Plan (“CTMP,” referred to as “Connect the Coastside”).
May 20, 2014	- Board of Supervisors approves contract with DKS Associates as lead consultant to prepare the Comprehensive Transportation Management Plan.
May 29, 2014	- Project initiated, with final scope of work and commencement of data collection.
August 27, 2014	- Project introduction and status update to the Midcoast Community Council (MCC).
Sept. 30, 2014	- Draft Buildout Analysis and Traffic Projections Report presented at Technical Advisory Committee (TAC) Meeting No.1.
October 22, 2014	- Presentation on draft Buildout Analysis and Traffic Projections Report to the Midcoast Community Council.
November 10, 2014	- Public Workshop No.1 – Opportunities and Constraints.
December 10, 2014	- Project status report to Planning Commission.

- March 4, 2015 - Hybrid Transportation Alternative presented at TAC Meeting No.2.
- April 8, 2015 - Presentation to the Midcoast Community Council.
- April 15, 2015 - Public Workshop No.2 – Transportation Alternatives.
- April 21, 2015 - Presentation to the Half Moon Bay City Council.
- September 9, 2015 - Draft Development Forecast and Alternative Transportation Standards presented at TAC Meeting No.3.
- October 14, 2015 - Presentation to Midcoast Community Council.
- October 20, 2015 - Presentation to the Half Moon Bay City Council.
- October 22, 2015 - Public Workshop No.3 - Land Use Forecast and Alternative Transportation Standards.
- November 4, 2015 - Project status report to the Planning Commission.
- February 17, 2016 - Draft Identification and Evaluation of Recommended Transportation and Land Use Alternative to Address Deficiencies presented at TAC Meeting No.4.
- March 14, 2016 - Presentation to the Half Moon Bay City Council.
- March 23, 2016 - Presentation to the Midcoast Community Council.
- April 7, 2016 - Public Workshop No.4 - Identification and Evaluation of Recommended Transportation and Land Use Alternative.
- August 2, 2017 - Charette with representatives from Caltrans, MCC, and others to review draft roundabout design for Cypress Avenue and Highway 1 intersection.
- November 14, 2018 - Study session with the Midcoast Community Council.
- September 16, 2019 - Presentation of Connect the Coastside Preliminary Draft to TAC.
- January 8, 2020 - Presentation to the Midcoast Community Council.
- January 15, 2020 - Connect the Coastside Draft No.1 released.
- April 8, 2020 - Presentation to the Midcoast Community Council.

- May 30, 2020 - Virtual Public Conversation No.1 – Overview of Connect the Coastside.
- June 15, 2020 - Virtual Public Conversation No.2 – Recommendations for Moss Beach and Montara.
- June 30, 2020 - Virtual Public Conversation No.3 – Recommendations for El Granada, Princeton, and Miramar.
- July 7, 2020 - Virtual Youth Focus Group No.1 with Youth Leadership Institute (YLI).
- July 8, 2020 - Presentation to the Midcoast Community Council.
- August 1-31, 2020 - Spanish language outreach, including recorded presentation, Facebook live event, and surveys available in paper, online, and by phone.
- August 20, 2020 - Response to May and June Virtual Meeting Inquiries Report released.
- September 16, 2020 - Virtual Youth Focus Group 2 with Ayudando Latinos A Soñar (ALAS)
- September 16, 2020 - Connect the Coastside 2020 Outreach Summary Report released.
- September 23, 2020 - Presentation to the Midcoast Community Council.
- October 20, 2020 - Moss Beach transportation improvements evaluation meeting with representatives from Caltrans, MCC, and others.
- January 20, 2021 - Connect the Coastside Draft No.2 (Final Administrative Draft) with Executive Summary and Appendices, released.
- January 27, 2021 - Presentation to the Midcoast Community Council.
- February 10, 2021 - Presentation to the Planning Commission.
- February 24, 2021 - Presentation to the Midcoast Community Council.
- March 15, 2021 - Meeting with California Coastal Commission staff.
- October 22, 2021 - Revised land use policy analysis meeting with MCC member, and others.

- October 25, 2021 - Connect the Coastside Draft No.3 (Final Draft) with Executive Summary, Appendices, Response to Comments on January 2021 Final Administrative Draft, Guide to Final Draft Changes, and Environmental Considerations Memorandum released.
- November 10, 2021 - Presentation to the Midcoast Community Council.
- December 7, 2021 - Presentation to the Half Moon Bay City Council.
- April 27, 2022 - Planning Commission hearing.
- July 12, 2022 - Tentative Board of Supervisors hearing.

**DISCUSSION**

A. **KEY ISSUES**

Connect the Coastside’s Study Area is primarily in the Coastal Zone: only two proposed infrastructure improvements included in the Plan on Highway 92 are outside of the coastal zone; therefore, the Plan is subject to the County’s Local Coastal Program. The Study Area includes the Half Moon Bay Airport; therefore, CTC is subject to the Airport Land Use Compatibility Plan (ALUCP).

1. **General Plan and Local Coastal Program Consistency**

The County’s Local Coastal Program is a subset of the County General Plan and the two documents are internally consistent. The following analysis evaluates the Plan’s consistency with both the General Plan and Local Coastal Program.

Staff has reviewed CTC and found it to comply with applicable policies:

a. **Local Coastal Program Locating and Planning New Development Component and General Plan General Land Use, Urban Land Use, and Rural Land Use Policies**

- (1) General Plan Policy 8.9 (*Designation of Existing Urban Communities*) designates Montara-Moss Beach-El Granada as an existing urban community. Local Coastal Program Policy 1.36 (*Half Moon Bay Airport Influence Area Requirements*) requires additional compliance with Federal Aviation Administration (FAA) standards for new development and land uses within the Half Moon Bay Airport Influence Area. A portion of CTC’s Study Area is within the Montara-Moss Beach-El Granada urban community and the airport influence area.

Future implementation of projects recommended in CTC will be subject to associated policies. Conformance with the Half Moon Bay Airport Land Use Compatibility Plan's policies is further described below in Section 2.

- (2) General Plan Policy 8.15 (*Land Use Compatibility*) encourages a mix of land uses that would enhance neighborhood quality and support pedestrian and bicycle activity and Policy 8.32 (*Mixed Use*) encourages efficient and effective infrastructure, including roads, and encourages improvements to minimize dangers to human safety. The Plan does not include any land use designation changes, nor does it propose any land uses that would introduce any activities not currently found in the Study Area. CTC's recommendations include physical improvements to the right-of-way and programmatic improvements to parking, transit, and fees. Recommended projects will increase bicycle and pedestrian transportation options and safety for all roadway users. Projects, such as the Multimodal Parallel Trail, bike lanes, and sidewalks, would be built in the existing right-of-way, using existing resources more efficiently to move greater numbers of people.
- (3) LCP Policy 1.18 (*Location of New Development*) directs new development to existing urban areas and allows some future growth at high densities for affordable housing in certain areas. As described on p.88 of the Plan (Attachment C), CTC's transportation analysis included forecasting traffic volumes at LCP Buildout and assigning projected traffic volumes to specific locations in the Midcoast to measure location-specific impacts. This distribution of traffic volumes was based on existing land uses and the assumption that future growth would be distributed in existing urban areas.
- (4) LCP Policy 1.23 (*Timing of New Housing Development in the Midcoast*) limits the maximum number of new dwelling units built in the urban Midcoast to 40 units each calendar year to ensure facilities and community infrastructure are not overburdened, until several conditions are met, including incorporation of a comprehensive transportation management plan (Policy 2.53) into the Local Coastal Program. Connect the Coastside states that the County does not intend to amend LCP Policy 1.23. Connect the Coastside preliminarily identifies LCP policies that may require amendments, including but not limited to 2.42, 2.43, 2.44, 2.46, 2.47, and 2.52. Department staff will further evaluate and recommend LCP amendments to facilitate implementation of CTC.

b. LCP Public Works Component and General Plan Transportation Policies

- (1) LCP Policy 2.2 (*Definition of Public Works*) defines all public transportation facilities, including streets, roads, highways, and parking lots, as public works. Local Coastal Program Policy 2.1 (*Development Review*) requires a Coastal Development Permit from any agency undertaking development in the coastal zone, with some exceptions. Local Coastal Program Policy 2.4 (*Ordinance Conformity*) requires as a condition of permit approval, conformance to the County's zoning ordinance and LCP policies. Many of CTC's recommendations are considered public works and will require a CDP and conformance with the LCP and zoning ordinance at the time specific project implementation is pursued.
- (2) Local Coastal Program Policy 2.53 (*Transportation Management Plan*) requires development of a plan to: address cumulative traffic impacts based on traffic analysis of conditions at LCP buildout; include recommended LCP policies to offset the demand for new vehicle trips and policies to mitigate impacts; and evaluate the feasibility of development an in-lieu fee mitigation program, the expansion of public transit, and development of a mandatory lot merger program. Connect the Coastside meets LCP Policy 2.53's requirements:

Chapter 6 of CTC (p. 66) describes the approach of the transportation impact analysis. The project team evaluated existing conditions and collected data (like vehicle counts) to assess traffic conditions. The existing conditions analyses clarifies what is already a traffic problem or concern that might need to be addressed at present, and that might be made worse in the future. To project future transportation impacts, the maximum buildout forecast, consistent with the directives of LCP Policy 2.53, was input into a travel demand model (CTC, p. 41). The outputs of the travel demand model were further processed to identify traffic impacts at LCP buildout.

The project team then compared existing conditions to projected future conditions using level of service (roadway and intersection) and delay (CTC, p. 81 – 98). Based on these findings and stakeholder input, the Plan identifies solutions to address existing and projected impacts. Chapter 7 (CTC, p. 100) recommends improvements to increase mobility, address safety concerns, and resolve performance standard deficiencies. Improvements are detailed in separate sections by mode:

roadway, pedestrian, bikeways, transit, parking, recreational trails, and other policies, and programs. The Plan includes a level of service and delay analysis to show the impact of proposed infrastructure improvements (CTC, p.145 - 150). Recommended policies (including potential LCP amendments) and programs (CTC, p.154 – 161) include but are not limited to: establishing a transportation impact mitigation fee, safe routes to school program, refining the County’s transportation demand management requirements and LCP Policy 2.52, supporting emerging transportation technology mobility solutions, lowering speed limits, establishing a traffic control measures program during peak period events, and establishing new transportation performance standards in the Local Coastal Program.

Chapter 8 (CTC, p. 192) evaluates the feasibility of a transportation impact mitigation fee (TIMF), a development impact fee that would be collected from new development to offset transportation impacts of that new development. The TIMF program could collect fees for new residential and non-residential development on a per-housing-unit basis for residential and per-square-foot basis for non-residential development. To establish the fee, the County would need to comply with the Mitigation Fee Act and prepare a formal nexus study. Connect the Coastside includes a preliminary TIMF analysis based on the Plan’s recommended projects, their projected costs, and the proportional impacts due to projected new development at LCP buildout. Implementation of a TIMF would be consistent with General Plan Policy 12.20 (*Financing Local Road Improvements*), which encourages using all available techniques to fund local road improvements and to ensure improvements are consistent with adopted land use plans and area plans.

Chapter 6 (CTC, p. 77) describes existing transit service, providers, amenities, and ridership trends. Proposed transit service improvements are recommended in Chapter 7 (p. 139) and include transit stop improvements, recreational microtransit service, and increased Midcoast bus service. The project team worked with SamTrans staff to develop the recommendations and proposed cost estimates. As described in CTC, implementation of the recommendations would require significant investment.

Chapter 4 (CTC, p. 46) includes a lot merger program feasibility analysis. The section describes: the origin for the idea of a mandatory lot merger program; challenges of implementing a

mandatory lot merger program; and how legal precedent (including *Witt Home Ranch, Inc. v. County of Sonoma*, 165 Cal. App. 4th 543 (2008), and *Abernathy Valley, Inc. v. County of Solano*, 173 Cal. App. 4th 42 (2009)), the 2017 update to County Subdivision Regulations, and the preferences of property owners are leading to the creation of legal parcels at or above current minimum parcel size without the need for a mandatory lot merger program. Based on the analysis, CTC recommends continuing the practice of reviewing development applications for opportunities to merge contiguously owned parcels rather than implementing a standalone mandatory lot merger program.

- (3) Local Coastal Program Policy 2.7 (*Phased development of Public Works*) requires the phased development of public works to ensure that permitted capacities are limited to serving needs generated by development consistent with LCP policies. Local Coastal Program Policy 2.9 (*Timing for New or Expanded Public Works Facilities*) defines how new and expanded public works capacity shall be determined, including estimating capacity needed to serve LCP buildout and available information from the Comprehensive Transportation Management Plan. Connect the Coastside's analysis found that several locations in the Study Area are considered deficient as measured by intersection level of service (CTC, p. 82) and roadway level of service (CTC, p. 85), in addition to other safety and operational concerns as described in Chapter 6 of the CTC (CTC, p. 65 – 87). These deficiencies would be exacerbated under buildout conditions. Connect the Coastside's recommendations are designed for implementation over the next 30 years to address existing conditions and mobility needs, as well as to respond to predicted growth in the Study Area. Connect the Coastside does not recommend roadway capacity increases as measured by roadway level of service.
- (4) Local Coastal Program Policy 2.42 (*Capacity Limits*) limits roadway expansion to capacity which does not exceed that needed to accommodate commuter peak period traffic at LCP buildout, and requires using commuter peak period traffic as the basis for determining capacity increases. Local Coastal Program Policy 2.43 (*Desired Level of Service*) defines acceptable service levels of D during commute peak periods and E during recreation peak periods when assessing the need for road expansion. Connect the Coastside's recommendations address existing and future capacity needs of the transportation system, considering anticipated population growth through



buildout of the Midcoast Local Coastal program. The Plan identifies existing transportation safety and congestion impacts, which would be exacerbated without the proposed recommendations under buildout conditions. Proposed improvements would not constitute a significant expansion of the existing roadway system.

Roadway segment level of service (LOS) is based on the ratio between observed volume during peak periods and the capacity of the roadway segment and does not take into account observed congestion and delay experienced by users (as a result of intersections and other sources of increased travel time). Improving roadway LOS often requires roadway expansion (e.g., adding travel lanes), which was not favored by stakeholders and would likely conflict with other LCP policies. Connect the Coastside recommends alternative transportation performance standards to be incorporated into the LCP to address biases in the existing standards, as transportation system performance and capacity can be measured in different ways. For roadways, the alternative standards were developed to address concerns that traditional LOS standards have detrimental effects on non-motorized users and the implementation of Complete Streets, and do not consider observed congestion and delay experienced by users. Connect the Coastside recommends a future LCP amendment to replace roadway LOS with a Delay Index (the ratio of peak period travel time on a segment to the free-flow travel time) to measure performance on roadway segments. Improvements included in the Plan would address deficiencies identified using the proposed Delay Index-based standard; specifically, installation of a proposed Parallel Trail along Highway 1 would allow Highway 1 along the Midcoast to meet the proposed standard.

The LCP does not identify a desired intersection level of service (LOS) to inform interventions. Connect the Coastside used the San Mateo County Traffic Impact Study (TIS) requirements to assess performance deficiencies. The TIS requirements define the intersection LOS standard as LOS C with no individual movement operating at worse than LOS D. For unsignalized intersections, this represents the delay experienced by minor (side) street traffic entering Highway 1. Because most side-street intersections within the Study Area are controlled by stop signs, the existing standards prioritize the delay experienced by the relatively low volumes of vehicles entering Highways 1 or 92 over the higher volume of through traffic along Highways 1 or 92. As with roadway segments, CTC proposes alternative

transportation performance standards for intersections: to use the existing intersection LOS standard for signalized intersections, but apply the intersection LOS standard to unsignalized intersections only if the intersection has sufficient side-street traffic to meet a peak-hour traffic signal warrant. Improvements in the Plan would address the deficiencies at the two Midcoast intersections that would be considered deficient (Highway 1 and California Avenue and Highway 1 and Cypress Avenue) under the proposed standard. Recommended improvements in the Plan would address the intersection LOS deficiency at Highway 92 and Highway 35 Upper.

- (5) Local Coastal Program Policy 2.46 (*Monitoring*) states that peak period data should be applied in decisions to determine roadway capacity. Connect the Coastside collected morning, evening, and weekend (midday) peak period data to evaluate transportation system performance and identify proposed recommendations (p. 81 – 87).
- (6) Local Coastal Program Policy 2.50 (*Improvements for Bicycle and Pedestrian Trails*) requires that: Caltrans protect and make available right-of-way to allow for bicycle and pedestrian trail development, commensurate with the C/CAG Bicycle and Pedestrian Plan and California Coastal Trail Plan; promote development of the Multimodal Parallel Trail; and promote safe pedestrian crossings of Highway 1. Connect the Coastside reinforces the goals of the C/CAG Bicycle and Pedestrian Plan: connectivity, mode shift, safety, complete streets for all, equity, and regional collaboration. Connect the Coastside identifies the following projects, which are consistent the C/CAG Bicycle and Pedestrian Plan's Countywide Backbone Network: Highway 1 Multimodal Parallel Trail (Class I Bike Path), Highway 1 Class II Bike Lanes, and wide shoulder on Highway 92.
- (7) Local Coastal Program Policy 2.52 (*Traffic Mitigation for all Development in the Urban Midcoast*) requires applicants for new development that generate any net increase in vehicle trips on the highways to prepare a Traffic Impact Analysis and Mitigation Plan, which includes transportation demand management measures and provisions to mitigate, to the extent feasible, adverse impacts on public access to beaches. Connect the Coastside identifies projects to mitigate impacts of development on the Midcoast and increase public access to beaches. Implementation and/or contributions toward implementation of projects identified in CTC could be incorporated into conditions of approval for new development, depending on the level of a

project's impact. Connect the Coastside recommends enhancing transportation demand management approaches and updating policies to align with the County's Congestion Management Program and best practices.

- (8) Local Coastal Program Policies 2.54 (*Increased Commuter Transit*), 2.55 (*Increased Recreational Transit Use*), and 2.56 (*Increased Services for Coastside Residents*) intend to encourage use of transit by various users through improvements to transit service, availability of park and rides, and programs for visitor-serving events. General Plan Policies 12.32 (*SamTrans Service*), 12.33 (*Recreational Service*), and 12.40 (*Weekend Bus Service*) encourage and support increased transit service for both recreational and transportation trips, including from the Bayside to the Coastside. Connect the Coastside supports these policies as it recommends transit improvements, including increased stop amenities, recreational microtransit connecting to the Hillsdale Caltrain stations and Colma BART station, and increased frequency and hours of bus service (CTC, p. 139-141).
- (9) The General Plan's automobile travel policies 12.14 through 12.18, and 12.21 give priority to upgrading existing roads before building new roads, support traffic control measures that balance the needs of all roadway users where improvements are needed due to safety or congestion, and seek methods to mitigate for peak recreational traffic to the coastside. General Plan Policies 12.29 through 12.30 emphasize coordination of projects for context-sensitive and complete streets design. The General Plan includes policies regarding bicycle and pedestrian travel (12.43 to 12.49), which encourage context sensitive design and providing safe and adequate pedestrian and bicycle facilities.

Connect the Coastside is consistent with these policies, particularly in terms of regional planning, upgrading existing infrastructure, incorporating Complete Streets facilities into existing infrastructure, and ensuring safe and adequate bicycle and pedestrian facilities. Highways 1 and 92 in the Study Area have a general lack of marked pedestrian crossings. Infrequent crossing opportunities, heavy traffic volumes, high vehicle speeds, and gaps in the pedestrian and bicycle networks contribute to poor pedestrian and bicycle connectivity. Additionally, the lack of transit connections to pedestrian and bicycle systems reduces connectivity for those who rely on the transit for work, school, or other trips. Proposed improvements included in the Plan include marked pedestrian crossings in

several locations along Highways 1 and 92, the multi-purpose Parallel Trail, the extension of the Coastal Trail, and more frequent bus service and improved bus stops to provide more linkages between eastern and western, and northern and southern portions of the Study Area community.

c. Local Coastal Program Agriculture Component and General Plan Soil Resources Policies

- (1) Local Coastal Program Policies 5.1 (*Definition of Prime Agricultural Lands*) and 5.2 (*Designation of Prime Agricultural Lands*) define and designate Prime Agricultural Lands, and LCP Policies 5.3 (*Definition of Lands Suitable for Agriculture*) and 5.4 (*Designation of Lands Suitable for Agriculture*): parcels containing either are designated as Agriculture on the LCP Land Use Plan Map and the Study Area includes both. Areas of Class I or Class II Agriculture Soils and Class III Soils rated good or very good for artichokes or brussels sprouts (prime soils) can be found east of Montara and along Highway 92.
  
- (2) Local Coastal Program Policies 5.8 (*Conversion of Prime Agricultural Land Designated as Agriculture*) and 5.10 (*Conversion of Land Suitable for Agriculture Designated as Agriculture*) seek to preserve lands that are viable for agriculture production for agricultural use. The Plan would not involve changes to land use designation or zoning districts. In some cases, additional right-of-way may be required for the implementation of proposed improvements. For those locations where agriculturally zoned land may be affected, the amount of land to be acquired and converted would be minimal and would not require a change in land use for the entire parcel and would be likely to meet conditions of Policies 5.8(a) and 5.10(a). The prime soils mapped east of Montara are unlikely to be affected by the Plan due to their distance from Highway 1. The prime soils mapped along Highway 92 are on both sides of the highway. The Plan does not propose any land divisions and would therefore not divide any lands where these soils are found. Some improvements along Highway 92 within the Coastal Zone may require the acquisition of additional rights-of-way in the vicinity of areas where prime soils are mapped, such as proposed left-turn lanes. However, any right-of-way acquisitions at these locations would not include any lands where agricultural operations are taking place; rather, the right-of-way acquisitions would be areas that are already landscaped or paved, or part of undeveloped or open space land, and located immediately adjacent to the highway. Proposed

improvements would largely take place within the public right-of-way. Paving unpaved areas would seal the soils underneath, likely resulting in damage to those soils. However, due to the vicinity of those areas to the existing highway, it would be unlikely that they would be used for cultivation purposes. In addition, each individual improvement proposed in the Plan will be subject to coastal permitting and environmental review as required by the California Environmental Quality Act (CEQA) Guidelines.

d. Local Coastal Program Sensitive Habitats Component and General Plan Vegetative, Water, Fish, and Wildlife Resources Policies

- (1) The LCP defines sensitive habitats in Policy 7.1 (*Definition of Sensitive Habitats*) and includes protections for sensitive habitats and rare and endangered species, including: Local Coastal Program Policy 7.3 (*Protection of Sensitive Habitats*), which prohibits any land use or development which would have significant adverse impact on sensitive habitat areas and LCP Policy 7.4 (*Permitted Uses in Sensitive Habitats*) permitting only resource dependent uses in sensitive habitats as identified by other LCP Policies (7.9, 7.16, 7.23, 7.26, 7.30, 7.33, and 7.44). LCP Policy 7.5 (*Permit Conditions*) requires the applicant to demonstrate that there will be no significant impact on sensitive habits, and if determined that significant impacts may occur, require reporting, monitoring, and mitigations. Sensitive habitats, as defined by Policy 7.1, have been identified in CTC's Study Area for previous projects; for example, the Plan references known California red legged frog habitat near the intersection of Highway 1 and California Avenue, which is near the site of a proposed intersection control and Multimodal Parallel Trail. Due to the number of improvements proposed as part of the Plan and the 30-year planning horizon to implement those improvements, more in-depth site-specific surveys would be required for those proposed improvement sites where the potential for impacts on sensitive habitats may occur, whether proposed uses would be permitted, and if so, appropriate permit conditions. All proposed improvement projects would be required to comply with federal, State, and local policies and permits related to the protection of coastal resources and special-status plant and wildlife species. In addition, implementation of improvements recommended by the Plan will be subject to environmental review as required by California Environmental Quality Act.

(2) The LCP includes policies defining and identify permitting uses, protections, and monitoring for projects in riparian corridors (Policies 7.7 through 7.13) and wetlands (Policies 7.14 through 7.21). There are several waterways within and adjacent to the areas where CTC's improvements are proposed, including perennial and intermittent creeks, as well as sensitive natural communities such as arroyo willow riparian forest and northern coastal scrub. Although recommended infrastructure projects would primarily take place along paved roadways and previously disturbed areas, riparian habitats could be directly impacted because of equipment and materials staging and/or vegetation trimming or removal. Individual improvement projects should be designed to avoid adverse impacts to these sensitive habitats. While none of the proposed improvement projects are expected to result in direct impacts to wetlands and other waters, best management practices should be implemented to minimize indirect impacts such as sediment discharges to these areas during construction. All proposed improvement projects would be required to comply with federal, State, and local policies and permits related to the protection of riparian corridors and wetlands. In addition, implementation of improvements recommended by CTC will be subject to environmental review as required by California Environmental Quality Act.

e. Local Coastal Program Visual Resources Component and General Plan Visual Quality Policies

(1) General Plan Policies 4.40 through 4.47 give special recognition and protection to scenic roads and corridors, including requiring road design and construction to be sensitive to visual qualities and character of the corridor. The LCP's Scenic Roads and Scenic Corridors policies (8.28 through 8.34) designate scenic corridors, including State and County designations, and designate design criteria. General Plan Policies 4.61 and 4.62 limit the number of access roads connecting to a scenic corridor and encourage the use of alternate paving and minimizing hardscape. Both Highways 1 and 92 are County-designated Scenic Corridors throughout the Study Area. Implementation of CTC's recommendations would involve the construction of physical roadway, pedestrian, bicycle, and transit improvements within the County Scenic Corridor; however, the recommended improvements would not include structures, such as buildings, that would typically obstruct or otherwise impact the corridor's views. In general, components of improvements included in the Plan would be expected to be below the height of existing structures and vegetation. Though final designs for the

recommended improvements have not yet been developed, any future implementation of the recommended improvements would be subject to these policies. In the event of future implementation, construction activities could impact the Scenic Corridors; however, such impacts would be temporary and would only affect specific points along the corridors at any given time.

- (2) General Plan Policy 4.17 regulates coastal development to protect and enhance natural landscape features and Policy 4.21 minimizes adverse visual qualities of utility structures, including roads and roadway signs. Local Coastal Program Policies 8.12 (*Apply Design Review*) and 8.13 (*Special Design Guidelines for Coastal Communities*) define applicable design standards for coastal communities, including designing structures to: fit the topography of the site, to be in scale with the character and setting, and minimize blocking views of the ocean from Highway 1. Local Coastal Program Policies 8.4 (*Cliffs and Bluffs*) and 8.7 (*Development on Skylines and Ridgelines*) generally prohibit development on bluff faces, skylines, and ridgelines.

Per Map 1 (p. 4 of Attachment C), CTC's Study Area includes the Midcoast area of San Mateo County, as well as adjacent rural lands west of Interstate 280 (I-280). Transportation improvements included in the Plan are proposed for segments of Highway 1 (Cabrillo Highway) from just south of the Tom Lantos Tunnel (also known as the Devil's Slide Tunnel) to the northern city limits of Half Moon Bay, and Highway 92 (also known as Half Moon Bay Road) from the eastern city limits of Half Moon Bay to I-280. Most of the Plan's Study Area is within the Coastal Zone. Highways 1 and 92 are County Designated Scenic Roads. Highway 1 in the Study Area runs along the California coastline, offering vistas of the Pacific Ocean, coastal habitat and vegetation, beaches and bluffs, agriculture, and hillsides. Highway 92 in the Study Area provides views of mountainous terrain and agricultural fields and passes over the Upper Crystal Springs Reservoir and through the San Francisco State Fish and Game Refuge protected open space.

Final designs for recommended improvements have not yet been determined. Physical components of the proposed improvements would include trail surfaces (paved and unpaved) for the Parallel and Coastal Trails; standardized pavement and shoulder along Highway 1 where the edge is currently not standardized; addition of intersection controls (roundabout or traffic signal) at the intersections of Highway 1 with 16th Street,

California Avenue, and Cypress Avenue; wayfinding signage; the development of Class II bike lanes along Highway 1; and curb extensions, crosswalks, neighborhood traffic circle, and sidewalks in Montara and El Granada. The proposed improvements included in the Plan would take place in the public right-of-way. Therefore, significant changes to the area's topography and ridgelines would not be necessary. While the appearance of the highways would themselves be altered by several proposed improvements, including the Highway 1 shoulder and edge treatments, Class II bicycle lanes, roundabouts on Highway 1, and a signal on Highway 92, these would not be significant changes to the already paved roadways. Overall, Plan components would not be above the grade of existing structures or vegetation and thus would not have the potential to block scenic vistas. In addition, all recommended improvements, if implemented, will need to be designed consistent with LCP policies and will be evaluated for consistency with such policies as part of the permitting process.

- f. Local Coastal Program Hazards Component and General Plan Hazards Policies
- (1) Local Coastal Program Policies 9.8 (*Regulation of Development on Coastal Bluff Tops*), and 9.9 (*Regulation of Development in Flood Plains*) permit development under specific circumstances, prohibit new structures that would require the need for bluff protection work, and specify regulations for building. Local Coastal Program Policy 9.11 (*Shoreline Development*) locates new development, except public recreation facilities and coastal-dependent uses, in areas where beach erosion hazards are minimal. Local Coastal Program Policy 9.12 (*Limiting Protective Shoreline Structures*) permits construction under certain circumstances, including protecting existing roadway facilities which provide public access to beaches. Local Coastal Program Policy 9.14 (*Shoreline Structure Design*) specifies the design of any shoreline structures, including not impeding lateral access along beach areas and providing vertical access. Local Coastal Program Policy 9.17 (*Maintenance of Structures*) requires that project plans for shoreline structures specify responsible maintenance parties. Highway 1 comes within 50 feet of a bluff edge at locations north of Montara. Therefore, there is potential for improvements proposed in that area, namely the Coastal Trail extension, to be exposed to hazards from bluff erosion. The proposed Coastal Trail extension would invite more bicyclists and pedestrians to travel this area, though the number of users on the Coastal Trail at any given time would not be



expected to be significant. Implementation of the Coastal Trail extension, as well as any other proposed improvement found to be within the area of demonstration of stability for bluffs and cliffs, would be subject to the above LCP policies. Most of the proposed improvements included in the Plan consist of enhancements to existing infrastructure. Connect the Coastsides does not include any improvements that would increase acceleration of coastal cliff/bluff erosion due to sea level rise.

- (2) Local Coastal Program Policies 9.4 (*Definition of High Risk Fire Areas*), 9.5 (*Designation of High Risk Fire Areas*), and 9.6 (*Regulation of Development in High Risk Fire Areas*) and General Plan Policies 15.6 (*Definition of Fire Hazards*) and 15.12 (*Location New Development in Areas Which Contain Natural Hazards*) define, designate, and require certain development conditions if an area is an a high risk fire area. The California Department of Forestry and Fire Protection (CAL FIRE) maps wildland fire hazards for State Responsibility Areas (SRAs) and Local Responsibility Areas (LRAs). In general, the urbanized parts of the Midcoast—Montara, Moss Beach, Princeton, and El Granada—are not considered wildland fire hazard zones. There are some portions of the San Mateo County LRA at the eastern edge of these communities where Very High Fire Hazard Severity Zones are indicated. Mapping for the SRA shows areas of Very High Fire Hazard Severity throughout the non-urbanized portion of the Study Area, including along Highway 1 at locations north of Montara and east of Moss Beach and Princeton, as well as along Highway 92. Some portions, including areas adjacent to Highway 1 at Moss Beach and El Granada, and adjacent to Highway 92 near Highway 35 are considered High Fire Hazard Severity Zones. Some Moderate Fire Severity Zones can be found along the highways in built areas and bluffs near Gray Whale Cove and Montara State Beach, in El Granada, at the agricultural and commercial uses on Highway 92, and east of the western intersection of Highway 92 and Highway 35. The Plan's recommendations would not increase the number of people exposed to potential fire hazards above what would exist without it, as it would not increase trip generation or traffic volumes. While greater numbers of pedestrians and bicyclists may be encouraged to use the proposed improvements, the increase would not result in a significant concentration of persons in hazard areas for extended periods of time.

g. General Plan Man-Made Hazards Policies

- (1) General Plan Policies 16.2 (*Reduce Noise Impacts Through Noise/Land Use Compatibility and Noise Mitigation*) and 16.17 (*Promote Transportation Related Noise Reduction*) reduce noise impacts through noise/land use compatibility and by promoting measures to reduce transportation-related noise. Connect the Coastside does not include land use changes or other components that would increase trip generation or vehicle miles traveled, which would lead to traffic noise above the levels that would exist without the Plan. There are residences located close to Highway 1 near the sites of the Plan's proposed improvements. Traffic flows are the primary source of ambient noise in the vicinity of the Plan's proposed improvements. Improvements included in the Project were selected to reduce overall congestion in the transportation system, which could have the effect of reducing noise generated by idling traffic.

h. Local Coastal Program Shoreline Access Component

- (1) Local Coastal Program Policies 10.3 (*Definition of Shoreline Access*) and 10.4 (*Designation of Shoreline Access*) define shoreline access as vertical access (connection from public road to shoreline) and lateral access (running parallel to shoreline), designates policies of this component to apply to vertical and lateral shoreline access, and identifies site-specific recommendations for shoreline destinations as defined by Table 10.6. Table 10.6 references improvements at Gray Whale Cove, Montara State Beach, Sea Cliff Court and Marine Walk, Point Montara, Fitzgerald Marine Reserve, and Pillar Point Harbor-South and East Areas of Pillar Point. Local Coastal Program Policies 10.8 (*Appropriate Locations for Shoreline Access*) through 10.14 (*Military Sites*) identify locational criteria to determine appropriate locations for shoreline access, including consideration of safe access, avoiding sensitive habitats, access through residential areas, and providing parking. Connect the Coastside recommends improvements that are considered shoreline access, such as the Highway 1 Multimodal Parallel Trail and California Coastal Trail. Connect the Coastside recommends improvements such as bicycle parking and improved crossings consistent with site-specific recommendations in Table 10.6, including: turn-lanes, improved parking, and pedestrian crossing at Gray Whale Cove; bicycle parking and pedestrian crossing at Montara State Beach; path on westside of Highway 1 in Montara and pedestrian crossings between Seacliff Court and 10th Street, bicycle parking, bikeways, and access signage at Pillar Point Harbor. Other

recommended improvements that are intended to support transportation could be considered shoreline access. These include intersection controls at 16th Street, California Avenue, and Cypress Avenue, which serve as connection points to the California Coastal Trail; improved pedestrian crossings at Capistrano Road, between Capistrano and Coronado Street, and at Coronado Street, which also connect to the Coastal Trail and shoreline; and Airport Street Bikeway and Princeton Connections. These improvements are consistent with the locational criteria identified by the Local Coastal Program.

- (2) Local Coastal Program Policies 10.15 (*Application of Minimum Development Standards*) through 10.29 (*Protection of Trails from Closing and/or Encroachment*) detail minimum development standards to all shoreline access development, including: maintenance; access for the disabled; vehicle, bus, and bike parking; and protection for fragile resources. Local Coastal Program Policy 10.38 (*California Coastal Trail (CCT)*) defines the California Coastal Trail and the role of the County in developing the CCT, including: goals and objectives, siting and design standards, acquisition and management; signage standards; support facilities; and mapping. Connect the Coastside's improvements that are considered shoreline access will be subject to these development standards of the LCP, once detailed design and implementation is pursued.

i. Local Coastal Program Recreation Component

- (1) Local Coastal Program Policy 11.1 (*Definition of Visitor-Serving Facilities*) defines public parking for coastal recreation or access as a visitor-serving facility. Connect the Coastside recommends a future parking study to identify additional public parking for coastal access. Local Coastal Program Policies 11.15 (*Private Recreation and Visitor-Serving Facilities*) and 11.17 (*Parking*) identify development standards that will apply to the future study.
- (2) Local Coastal Program Policy 11.3 (*Definition of Public Recreation Facilities*) defines public recreation facilities as lands and facilities serving primarily a recreation function. Recreational facilities in the Study Area include beaches along the coast, such as Gray Whale Cove State Beach, Montara State Beach, Seal Cove, and Surfer's Beach; outdoor recreation areas such as McNee Ranch State Park, Pillar Point Bluff in Princeton, and Quarry Park in El Granada; and informal and formal segments of the Coastal Trail along Highway 1.

- (3) Local Coastal Program Policy 11.4 (*Recreation and Visitor-Serving Facilities Permitted in the Coastal Zone*) permits necessary visitor serving facilities (per LCP Policy 11.1) and facilities that are designed to enhance opportunities for coastal recreation and maintain the character of coastside communities. Local Coastal Program Policy 11.13 (*Trails*) designates LCP trails, which includes all future trails in the coastal zone, the Coastal Trail, among others. Local Coastal Program Policy 11.14 (*Public Recreation Facilities*) defines development standards for facilities, including trail construction to accommodate both bicycle and pedestrian use when a proposed trail corresponds to the County's Bikeways Plan. Local Coastal Program Policy 11.26 (*Requirements for Trails and Recreational Development*) requires dedicated trail easements along routes of LCP Trails, promotes the development of safe pedestrian crossings of Highway 1, the development of a multipurpose path parallel to Highway 1, and ensures that agencies coordinate actions to provide for the California Coastal Trail. Several of CTC's proposed improvements are subject to these LCP policies, such as identified LCP trails (Coastal Trail and Multimodal Parallel Trail). Other recommended improvements include pedestrian and bicycle facilities that could be considered recreational facilities, such as Highway 1 sidewalks and Class II bicycle lanes on Highway 1. Other recommended projects are consistent with LCP Policy 11.26, such as providing safe pedestrian crossings.

## 2. Half Moon Bay Airport Land Use Compatibility Plan

The Half Moon Bay Airport Land Use Compatibility Plan (ALUCP) outlines regulations for compatible land uses within the Half Moon Bay Airport Influence Area (AIA) (<https://ccag.ca.gov/wp-content/uploads/2014/10/HAF-ALUCP-Final.pdf>). In Princeton, Highway 1 passes alongside the Half Moon Bay Airport, a municipal airport operated by San Mateo County. Much of the Midcoast subarea from Montara to El Granada is within 2 miles of the airport. Some of CTC's recommended improvements are located within the AIA. Connect the Coastsides does not recommend specific changes in land use, nor implement land use policy actions. Connect the Coastsides does not include any improvements that would increase air traffic levels, change the location of the airport, or otherwise result in changing air traffic patterns; it focuses only on roadway, bicycle, pedestrian, transit, and parking improvements. Detailed compliance with the ALUCP and review by the ALUC will be determined during the implementation phase of the Plan's proposed recommendations.

In the ALUCP, Half Moon Bay Airport has identified several safety zones where ALUCP policies limit allowable densities and types of land uses to minimize risks to incoming aircraft and reduce the exposure of people on the ground (ALUCP p.4.20 to 4.21). The Study Area intersects with: Zone 3 - Inner Turning Zone, Zone 2 - Inner Approach/Departure Zone, Zone 5 - Sideline. Accident risk is moderate to high within Zone 3, high in Zone 2, and low to moderate in Zone 5. Zone 3 and Zone 5 allow intensities of up to 100 persons per acre for non-residential uses. Zone 2 allows up to 60 persons.

Proposed improvements that would be located within the zones and subject to the compatibility standards (Table 4B, p.4-23) include the proposed Highway 1 shoulder treatment (R1), Airport Street Bikeway and Princeton Connections (B2), Class II bike lanes on Highway 1 (B1), Multimodal Parallel Trail (Pe1), pedestrian crossings (Pe2), the roundabout at Highway 1 and Cypress Avenue (R7), and California Coastal Trail (Pe3). These proposed improvements would not significantly increase the number of people exposed to airport hazards, and the number of people involved in construction and using the trail facilities would be well within the airport's intensity requirements.

The criteria to indicate the maximum acceptable airport noise levels is described as Community Noise Level Equivalent (CNEL). The Plan area is within the 65 CNEL noise contours (Exhibit 4B). Table 4A identifies land use and noise compatibility criteria; highway and street right-of-way and other transportation projects are compatible without restrictions.

The criteria for limiting height of structures, trees, and other objects near the airport is based upon standards published by the Federal Aviation Administration; Exhibit 4D of the ALUCP depicts critical areas for airspace protection. Recommended project Pe2. New and Improved Pedestrian Crossings identifies a potential overcrossing to connect the Coastal Trail from the west to east side of Highway 1 and would be subject to Airport Land Use Commission review and policies identified in Section 4.2.3.2 (p.4-27 ALUCP).

## B. PUBLIC OUTREACH AND COMMENT

### 1. Community Engagement, Feedback, and Plan Modifications from Project Kick-off through Final Draft Plan Public Release (through October 2021)

Community engagement was a critical part of the planning process to ensure that CTC reflects the needs of Midcoast stakeholders and to provide oversight for the assumptions, results of analysis, and final recommendations in the Plan. The Midcoast transportation system is viewed by many as insufficient to support the current and future needs of

the community and visitors; therefore, using an iterative Plan development process with stakeholder engagement informing all milestones was critical to the project.

Connect the Coastside began with a forecast of development potential within the study area based on LCP buildout and existing zoning, referred to as the Maximum Buildout Forecast (MBF). The MBF was used to evaluate the adequacy of the existing transportation system to accommodate potential future development. Adequacy of the transportation system was evaluated using the roadway level of service (LOS) standards contained in the Local Coastal Program. That analysis found that the existing transportation system would not be adequate to accommodate the amount of development in the MBF and meet LCP LOS standards. The findings were published as the Connect the Coastside Buildout Analysis and Traffic Projections Final Report in November 2014.

The project team identified potential transportation improvements that could help to address the roadway LOS deficiencies. The improvements were based upon previous planning efforts and developed with input from the TAC, the Midcoast Community Council (MCC), an online public survey, and a public workshop held November 10, 2014. The project team developed a recommended set of improvements that could address most but not all LOS deficiencies. The recommendations and the results of the evaluation were presented in a round of stakeholder and public outreach, including a public workshop held on April 15, 2015, and in the draft Connect the Coastside Evaluation of Recommended Alternative to Address Potential Future Transportation Deficiencies (published in March 2016 and revised in November 2016).

Based on stakeholder feedback, the project team concluded that there was not adequate support for the roadway-capacity projects that would be needed to meet the existing LCP LOS standards, as improving roadway LOS requires increasing roadway capacity, which typically means adding additional travel lanes (e.g., going from one lane in each direction on Highway 1 to two in each direction). Stakeholders were also concerned that the use of roadway LOS standards over-emphasized the role of the automobile, and that a new set of standards to measure transportation performance should be recommended to recognize the importance of walking, bicycling, and transit use in meeting the mobility needs of the future.

In response, the project team developed alternative transportation performance standards, including a delay index (ratio of peak period travel time on a roadway segment to the free-flow travel time) and intersection level of service. The alternative standards were documented and circulated for review in the fall 2015 and were presented at a public workshop on

October 22, 2015. After additional refinements to reflect stakeholder and public input, the alternative standards were used to re-evaluate the recommendations. The project team modified the set of recommendations to respond to stakeholder and public input and produce a more context-sensitive set of options, which formed Draft No.1 of Connect the Coastside, released in January 2020.

The project team gathered stakeholder input on Draft No.1 through September 2020. Due to the Covid-19 pandemic, most engagement was completed virtually. Outreach efforts included an online and paper survey, three virtual public meetings in May and June 2020, a youth focus group and two MCC meetings in July 2020, and Spanish language outreach. On August 20, 2020, the project team released a “Response to Connect the Coastside Virtual Meetings” report to answer questions received during stakeholder outreach. In general, stakeholders were supportive of the January 2020 draft recommendations that aimed to create safer places to walk, bicycle, and take transit; commenters were more divided on the CTC’s recommendations to improve driving. Stakeholders shared the importance of improving the multimodal travel experience, while maintaining traffic flow on Highways 1 and 92 given the projected increases in travel demand due to growth and anticipated increased travel demand by visitors to the coast. There were different opinions about the intersection treatments proposed for Highway 1, whether additional parking lots should be provided and where, and roadway design treatments like providing curbs on Highway 1. Stakeholders also desired more information on setting the context for the Midcoast, including a more visually compelling Connect the Coastside. On September 16, 2020, the project team released the “Connect the Coastside 2020 Outreach Summary Report” to share comments received and proposed updates to the Plan.

In response to stakeholder input, the project team revised Draft No.1 and released a Final Administrative Draft in January 2021 (Draft No.2). The updated CTC included:

- Revised Plan format with photos, graphics, and more legible layout, including community context and demographics,
- Updated goals to address environmental sustainability and accessibility,
- Consistency review and update based on ongoing and past plans, like the Unincorporated San Mateo County Active Transportation Plan and Highway 1 Safety and Mobility Studies,
- Revisions and updates to specific infrastructure projects, including removal of Highway 92 climbing lanes, revision to intersection controls on Highway 1 for preference for roundabouts, revision to intersection

controls on Highway 92 to signals, removal of Park and Ride lot recommendations, removal of transit re-route recommendations, and others, and

- Expanded implementation chapter with a proposed project implementation timeline and early actions to be undertaken by the Department.

By February 2021, the Plan was presented at a meeting of the Planning Commission and two meetings of the Midcoast Community Council. The Planning Commission asked clarifying questions about the involvement of agencies, such as SamTrans and Caltrans, in the development of recommendations; feasibility of proposed recommendations; possibility of near-term solutions; and the addition of data, visuals, and maps related to the delay index and proposed land use policies. The Midcoast Community Council provided written comments to the project team on March 24, 2021, stating that the Final Administrative Draft was a high-quality document that reflected public outreach and improved upon the January 2020 Draft. They requested additions and improvements, including but not limited to: an expectation that the Coastal Commission would certify the Plan; establishing a coordinated data collection method to monitor delay times and clarifying the delay index; annual updates on Midcoast transportation issues; a parking study; and prioritizing improvements at the intersections of Cypress Avenue and California Avenue with Highway 1. The project team continued to gather public feedback on the Plan through October 2021.

The project team revised the Final Administrative Draft Plan based on stakeholder feedback and released the Final Draft Plan (Draft No.3) in October 2021. With the release of the Final Draft CTC, the project team prepared “General Response to Comments on Connect the Coastsides Final Administrative Draft (January 2021)” summary (see Attachment E), and “References for Connect the Coastsides Plan Changes from January 2021 Final Administrative Draft to October 2021 Final Draft” (available on the CTC webpage <https://planning.smcgov.org/connect-coastsides>). Changes incorporated into the Final Draft in response to stakeholder comments included:

- New and revised analysis of the lot merger program,
- Expanded discussion on Half Moon Bay, the City’s involvement in CTC’s development, and data from the City’s LCLUP,
- Expanded discussion on agency partners and future coordination, including Sewer Authority Midcoastsides and Caltrans,



- Revised infrastructure recommendations, including consideration of westside path on SR 1 in Montara and path to Coronado St. crossing for coastal trail,
- Revised implementation section to include annual reporting and prioritization of funding and design to complete the Multimodal Parallel Trail, and
- Clarification on limitations of cost estimates and future project development process that will include community engagement, additional design and environmental considerations, among others.

2. Community Engagement and Feedback on Final Draft (October 2021 to Present)

The project team presented the Final Draft Plan to the Midcoast Community Council in November 2021 and to the Half Moon Bay City Council in December 2021 and received comments by email. The Midcoast Community Council discussed CTC at additional meetings in January 2022 and provided the project team a letter with feedback on January 26, 2022. Attachment F includes all comments received since the release of the Final Draft CTC in October 2021.

In their 2022 letter, the Midcoast Community Council:

- Acknowledged the increased legibility of the Final Draft Plan
- Thanked the project team for their responsiveness to community comments and requests for information
- Appreciated the emphasis on safety for pedestrians and bicyclists, and additional recommendations for recreational parking
- Affirmed their desire to see projects built in a timely manner
- Affirmed interest in working with County agencies and partners to advance implementation
- Shared their concerns about:
  - Long timelines for project implementation and whether mitigations will be timely for residential developments,
  - Lack of evacuation and hazard plans,
  - Commitment of SamTrans and other agencies, and

- Design and feasibility of roundabouts,
- Acknowledged that some community members desire underpasses instead of at-grade pedestrian crossings of Highway 1
- Requested additional Safe Routes to School improvements
- Requested the removal of project R10 Carlos Street Traffic Calming, which recommends reorientation of Carlos Street to one-way southbound and additional multimodal features
- Requested additions to the Plan's Executive Summary, including a discussion of potential LCP amendments and acknowledgement of the removal of a lot retirement program
- Requested the addition of a lot retirement program that is independent of specific development to be funded by traffic mitigation fees

### 3. Response to Public Comments

A summary of comments received (Attachment F contains all comments) on the Final Draft Plan and staff's response follows below.

- a. *General concerns about implementation including lengthy timelines, project complexity, high-cost projects with lack of dedicated funding, and whether the Plan provides timely mitigation for impacts of residential development on coastal access and environmental concerns.*

**Staff Response:** The existing Midcoast population already has an impact on coastal access which is documented in Connect the Coastside. The LCP's buildout estimate (p. 1.16) identifies that most development will likely occur in the R-1 zoning district, which primarily permits one-family dwellings. The Plan's early implementation and near-term actions (p. 176-177 of Attachment C), such as the development of the Multimodal Parallel Trail, are the type of large-scale projects that are needed to address both existing and future impacts, given that at project-level mitigations for a single-family residence are limited. As discussed on pages 7 and 8 of Attachment E, CTC is a conceptual and long-range plan and assumes project implementation over a 30-year horizon, given that future travel patterns and growth can change due to external factors, such as market condition and technology advances, and unforeseen

circumstances, like the Covid-19 pandemic. Certain development projects will be required to engage in traffic impact analysis per County Traffic Impact Analysis Guidelines and develop a traffic impact mitigation plan, per LCP Policy 2.52. Elements of a traffic impact mitigation plan could further implementation of CTC's recommendations and be included as part of the project's conditions of approval. In general, the LCP's policies intend to preserve safety, visitor accessibility, coastal access, and environmental concerns and all projects are reviewed as such. Once a nexus study is complete, future development will be required to contribute funds through the transportation impact mitigation fee, which would support mitigation of transportation concerns. Staff recognizes stakeholders' desire and need for some of CTC's proposed projects and is actively working toward implementation, while recognizing that large complex infrastructure projects can be costly and lengthy. In 2021, the Department was awarded a grant through the San Mateo County Transportation Authority's Highway Program Call for Projects for the Moss Beach State Route 1 (SR-1) Congestion and Safety Improvements Project. The grant will support the development of a "Project Study Report-Project Development Support (PSR-PDS)" for the Moss Beach corridor, from Highway 1 from 16th Street to Cypress Avenue. The project is expected to begin in Spring 2022.

b. *Concern about lack of evacuation and hazard plans.*

**Staff Response:** As discussed on page 6 of Attachment E, CTC is not an evacuation or hazard plan; it is a transportation plan that intends to improve traffic conditions for typical conditions. The County relies on Highways 1 and 92 to provide access for emergency responders as well as evacuation routes in cases of emergencies. CTC's proposed improvements would not introduce any physical barriers to circulation, nor would they result in increased traffic or congestion that could interfere with emergency response or evacuation. The Plan's recommendations would help to manage congestion in the Midcoast, improving overall circulation along the highways that would help to facilitate emergency response or evacuation. Highways 1 and 92 are Caltrans facilities, thus implementing improvements to these roadways would be subject to standard procedures and design standards. Implementation of infrastructure projects subject to CEQA would be required to assess impacts related to hazards and evacuation. The County and its partners recently completed the Multijurisdictional Local Hazard Mitigation Plan (LHMP) which assesses hazard vulnerabilities and identifies mitigation actions jurisdictions will pursue to reduce the level of injury, property damage, and community disruption due to hazards. Additionally, the County is planning updates to the Emergency

Operations Plan and the Safety Element of the General Plan that will address evacuation routes.

- c. *Concern about commitment of agency partners, such as SamTrans.*

**Staff Response:** As discussed on page 12 of Attachment E, the project team shared the Plan with SamTrans, Caltrans, and other partner agencies, and received feedback which was incorporated into the Final Administrative Draft and Final Draft, with the understanding that the proposed projects are conceptual and long-range. Connect the Coastside is a long-range plan and funding for implementation of its recommendations will need to be identified over the Plan's implementation horizon of 30 years. Partners have been and continue to work with the County on project and program implementation.

- d. *Concern about the design and feasibility of roundabouts.*

**Staff Response:** Connect the Coastside is a conceptual and long-range plan; to design and determine the feasibility of proposed projects, further resources will be required. The San Mateo County Transportation Authority Board of Directors approved the 2021 Highway Call for Projects Recommended Funding Program on December 2, 2021, which included the County's submission for the Moss Beach State Route 1 Congestion and Safety Improvements Project. The grant will support the development of a "Project Study Report-Project Development Support (PSR-PDS)" for the Moss Beach corridor, from Highway 1 from 16th Street to Cypress Avenue. Further feasibility of the proposed roundabouts will be explored as part of this project, which is expected to launch in Spring 2022.

- e. *Request for consideration of pedestrian underpasses vs. at-grade crossings of SR 1.*

**Staff Response:** The project team has received the request for consideration of pedestrian underpasses since the planning process began and has responded to this request previously, including the Response to Connect the Coastside Virtual Meeting Inquiries report (question No.12) released in August 2020. Pedestrian underpasses have the advantage of complete separation of pedestrians from vehicle traffic; however, pedestrian underpasses have drawbacks including: requiring extensive earthwork, structures, and/or electricity to meet ADA requirements for ramps and/or elevators; have been studied and shown to not be used by pedestrians if they can cross the street in a shorter or same amount of time; and require more extensive and ongoing maintenance. In short, the high cost of such grade separation should be considered along with security issues, drainage

problems, lighting needs and maintenance. Connect the Coastside, and previous studies, have documented the desire for safer pedestrian crossings and identified potential solutions given known constraints. There are known sensitive habitat areas in the Study Area near proposed crossing locations. Local Coastal Program Policy 7.3 (*Protection of Sensitive Habitats*) and Policy 7.4 (*Permitted Uses in Sensitive Habitats*) prohibits any land use or development that would have significant adverse impact on these areas. At-grade crossings are widely used and can be designed to address specific conditions such as improved visibility by shortening crossing distances and slowing motor vehicle speeds.

- f. *Questions about lack of Coastal Commission certification.*

**Staff Response:** The project team has coordinated with California Coastal Commission (CCC) staff throughout the project period and has confirmed that the County's adoption of CTC does not require certification or an LCP amendment. Connect the Coastside identifies potential future LCP amendments to incorporate the Plan's recommendations, which will require certification. Future policies that staff has identified that may require LCP amendments include but are not limited to Policies 2.42, 2.43, 2.44, 2.46, 2.47, and 2.52. California Coastal Commission staff agrees with the Department's approach to pursue specific LCP amendments after the adoption of Connect the Coastside.

- g. *Request for additional Safe Routes to School projects (including crossings, stop signs, and other treatments) and accelerated timeline for implementation.*

**Staff Response:** Safe Routes to School (SRTS) is an important and comprehensive approach to increase the number of students walking and bicycling to school, which can reduce congestion. The San Mateo County Office of Education (SMCOE) administers a countywide SRTS program (<https://www.smcoe.org/for-communities/programs/safe-routes-to-school.html>) and recommends a "6E" framework for successful approaches: education, encouragement, enforcement, engineering, evaluation, and equity. Connect the Coastside includes recommended projects Montara Safe Routes to School (Project Pe6, p. 132 of Plan) and El Granada Safe Routes to School (Project Pe7, p. 133 of Plan) due to stakeholders' concerns for student safety and incorporating concepts from the 2014 Farallone View Elementary School Walk and Bike Audit Final Report, in addition to recommending an LCP amendment to acknowledge SRTS as a key strategy (p. 156). Stakeholders' requested improvements and desire for an accelerated timeline must be coordinated with: SMCOE to engage in a

comprehensive SRTS approach, and the County's Department of Public Works, as roadways in the area are County-maintained. The Department has facilitated connecting community stakeholders to County departments working on Safe Routes to School.

- h. *Request to remove recommended project R10. Carlos Street Traffic Calming due to suggested one-way orientation.*

**Staff Response:** As described on p. 121 of Attachment C, Project R10. Carlos Street Traffic Calming is included in CTC to accommodate both the Multimodal Parallel Trail (due to known California red-legged frog habitat proximate to the intersection SR 1 and California Avenue) and facilitate implementation of a forecasted intersection control at SR 1 and California Avenue. Both the Multimodal Parallel Trail and intersection control are projects that will be needed to address impacts due to growth under the Maximum Buildout Forecast. As described on p. 101 of the Plan, during a future implementation process, the project sponsor would engage residents and evaluate alternative design options.

- i. *Suggested revisions to Executive Summary, including annotations to maps, inclusion of more detailed tables from Final Draft Plan, references to page numbers in Final Draft, and listing of potential LCP amendments.*

**Staff Response:** The Department acknowledges this input but does not recommend revising the Executive Summary. The Department is developing an online and interactive webmap of CTC's recommended projects that will allow users to gather more information about each project at a scale that is more flexible than a print map. Potential LCP amendments are identified throughout the Plan, in the program and project areas where they pertain for more context. Local Coastal Program amendments will be receiving public review and review by the Planning Commission and Board of Supervisors at the time of their consideration.

- j. *Requested the addition of a lot retirement program that is independent of specific development to be funded by traffic mitigation fees.*

**Staff Response:** Connect the Coastside recommends (p.192 of Attachment C) pursuing a nexus study to establish a transportation impact mitigation fee (TIMF), which requires a justifiable calculation based on the amount of development forecasted and the cost of projects needed to address forecasted impacts. The TIMF as described in CTC is based on the Plan's transportation project list; it

does not incorporate the potential impacts and costs of purchasing lots with the fee.

Previously, the project team recommended against pursuing a lot retirement program for subdivisions, as it may pose legal issues for the County. The project team believes legal issues would also exist if the traffic mitigation fees were used to fund a lot retirement program. In addition, as described in this staff report and the Plan, existing legal precedent, updates to the County's Subdivision Regulations, and property owner preferences are leading to the creation of legal parcels at or above current minimum parcel size.

As described on p. 5 of Attachment E, the County could explore a Transfer of Development Credits/Rights program to decrease future development in certain areas (such as high hazard or sensitive areas).

- k. *Lack of engagement of stakeholders from the City of Pacifica.*

**Staff Response:** Pacifica is outside of the CTC Study Area. However, through CTC outreach efforts, the project team heard about the challenges of getting to Pacifica by bicycle. Connect the Coastside does not address the area from Pedro Point Headlands to Aramai Point and Mussel Rock because it is not within the Connect the Coastside Study Area; this area is addressed in the Unincorporated San Mateo County Active Transportation Plan.

- l. *Cypress Point Affordable Housing Community Project not considered or referenced.*

**Staff Response:** In March 2021, the Coastal Commission approved a Local Coastal Plan amendment to redesignate the parcel in Moss Beach (APN 037-022-070), which has been identified for the potential Cypress Point Affordable Housing Project (<https://planning.smcgov.org/cypress-point-affordable-housing-community-project>). The site has been designated as an affordable housing site by the County since the 1980s but was previously envisioned as a larger, denser project of 148 units. The amendment reduced allowable project density but increased the amount of affordable housing units that would be provided at the site to better conform with the surrounding development and community needs. The potential future units on the parcel were included in the Maximum Buildout Forecast used for analysis by CTC, which informed the traffic analysis and recommendations. The Maximum Buildout Forecast is described in Chapter 4 of CTC (beginning on p. 38). Project R5. 16th Street / Highway 1 Intersection Control (p. 114) references the project's draft Transportation Impact Analysis.

C. ENVIRONMENTAL REVIEW

The Plan is not considered a project under California Environmental Quality Act (CEQA) (see CEQA Guidelines Section 15378). As recommendations contained in the Plan are brought forth for consideration and implementation, they will be subject to CEQA review. A detailed description of CEQA considerations can be found in Attachment D.

D. REVIEWING AGENCIES

Connect the Coastsides was distributed to agency representatives as identified on pages ii and iii of the Final Draft Plan (Attachment C).

The resolution (Attachment B) has been reviewed and approved by the County Attorney's Office as to form.

**ATTACHMENTS**

- A. Recommended Findings
- B. Resolution of the San Mateo County Board of Supervisors to Adopt Connect the Coastsides, the San Mateo County Midcoast Comprehensive Transportation Management Plan
- C. Connect the Coastsides Final Draft Plan
- D. Connect the Coastsides Environmental Considerations Memorandum
- E. Response to Comments on Connect the Coastsides Final Administrative Draft Plan
- F. Comments received on Connect the Coastsides Final Draft Plan

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COUNTY OF SAN MATEO - PLANNING AND BUILDING DEPARTMENT

# ATTACHMENT A

County of San Mateo  
Planning and Building Department

**RECOMMENDED FINDINGS**

Permit or Project File Number: PLN 2014-00430

Hearing Date: April 27, 2022

Prepared By: Chanda Singh

For Adoption By: Planning Commission

**RECOMMENDED FINDINGS**

1. That the Planning Commission recommend that the Board of Supervisors find Connect the Coastside: The San Mateo County Midcoast Comprehensive Transportation Management Plan, to be consistent with the County General Plan and Local Coastal Program.
2. That the Planning Commission recommend that the San Mateo County Board of Supervisors adopt a resolution to adopt Connect the Coastside: The San Mateo County Midcoast Comprehensive Transportation Management Plan.

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COUNTY OF SAN MATEO - PLANNING AND BUILDING DEPARTMENT

# ATTACHMENT B

**RESOLUTION NO. \_\_\_\_\_**

**BOARD OF SUPERVISORS, COUNTY OF SAN MATEO, STATE OF CALIFORNIA**

\* \* \* \* \*

**RESOLUTION TO ADOPT CONNECT THE COASTSIDE: THE SAN MATEO COUNTY  
MIDCOAST COMPREHENSIVE TRANSPORTATION MANAGEMENT PLAN**

---

**RESOLVED**, by the Board of Supervisors of the County of San Mateo, State of California, that

**WHEREAS**, the County of San Mateo Local Coastal Program Policy 2.53 calls for the County to develop a Comprehensive Transportation Management Plan for the Midcoast Study Area to evaluate and address the cumulative traffic impacts of residential development, including single-family, two-family, multi-family and second dwelling units, on Highway 1, Highway 92, and other arterial roads throughout the Midcoast; and

**WHEREAS**, on May 20, 2014, by Resolution No. 073197, the Board of Supervisors approved an agreement with DKS Associates to prepare a Comprehensive Transportation Management Plan for the Midcoast Study Area; and

**WHEREAS**, the County of San Mateo Planning and Building Department (“Department”) developed a Final Draft San Mateo County Midcoast Comprehensive Transportation Management Plan (“CTMP,” referred to as “Connect the Coastside” or “Plan”) to improve safety and mobility and address the requirements of County Local Coastal Program Policy 2.53; and

**WHEREAS**, the Plan was developed with input from: a collaborative interagency and interdepartmental Technical Advisory Committee including members from Caltrans, City of Half Moon Bay, and San Mateo County Transportation District; the Midcoast Community Council; partners such as the California Coastal Commission; and multiple community members; and

**WHEREAS**, diverse engagement methods were used to reach a broad cross-section of community stakeholders including eight public workshops, 12 presentations and meetings with the Midcoast Community Council, six presentations and meetings with commissions and councils, two charettes, two focus groups, five Technical Advisory Committee meetings, an online and paper survey, website with comment form, and Spanish language outreach through recorded presentations, social media events, and phone calls; and

**WHEREAS**, the Plan was developed iteratively and incorporated feedback received at each stage of the planning process, which included four technical background reports, three memoranda documenting public comments and questions with proposed changes to the Plan, and three public draft Plans; and

**WHEREAS**, the Plan provides a framework for the County and its partners to improve existing and projected transportation conditions for people traveling in and to the unincorporated communities of Montara, Moss Beach, El Granada, Princeton, and Miramar and includes: overarching goals and objectives; recommendations for

roadway, transit, bicycle, and pedestrian infrastructure; programs and policies; implementation strategies with planning-level project costs and potential funding sources; and

**WHEREAS**, the Plan conforms to the San Mateo County General Plan and Local Coastal Program as documented in the Board memorandum accompanying this resolution; and

**WHEREAS**, adoption of the Plan is not a “project” as that term is defined in the California Environmental Quality Act (“CEQA”) pursuant to CEQA Guidelines Section 15378.

**NOW, THEREFORE, IT IS HEREBY DETERMINED AND ORDERED** that the Board of Supervisors of San Mateo County adopts Connect the Coastside: the San Mateo County Midcoast Comprehensive Transportation Management Plan and directs the Community Development Director, or designee(s), to coordinate with partner agencies to further implementation of the Plan.

\* \* \* \* \*



COUNTY OF SAN MATEO - PLANNING AND BUILDING DEPARTMENT

# ATTACHMENT C

# Connect the Coastside

## San Mateo County Midcoast Comprehensive Transportation Management Plan

Final Draft – October 2021



**COUNTY** OF  
**SAN MATEO**



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# 1.Introduction



## BACKGROUND

**Connect the Coastsides** serves as the San Mateo County Midcoast Comprehensive Transportation Management Plan (Plan or CTMP). Connect the Coastsides aims to improve the safety and mobility for Midcoast residents, businesses, and visitors by recommending a suite of projects, policies, and programs to address current and future transportation conditions.

San Mateo County's Local Coastal Program (LCP) Policy 1.23 provides, in part, that the County shall "...limit the maximum number of new dwelling units built in the urban Midcoast to 40 units each calendar year until...A comprehensive transportation management plan, as described in Policy 2.53, is incorporated into the LCP." LCP policy 2.53 describes the required content of a comprehensive transportation management plan to address the cumulative traffic impacts of residential development on the San Mateo County Midcoast. The County does not intend to amend LCP Policy 1.23 and plans to continue limiting the maximum number of dwelling units to 40 units each calendar year. The County has prepared this comprehensive transportation management plan for the San Mateo County Midcoast to address the mobility needs of Midcoast residents and visitors, to protect coastal resources and public access, and to improve the livability for Midcoast residents. This Plan serves as a roadmap for future actions; future implementation may lead to amendments to various County regulations.

Since 2014, San Mateo County's Planning and Building Department has worked in collaboration with a team of consultants, community stakeholders, and agency partners on the Plan. Connect the Coastsides was developed through an extensive public engagement process, building upon previous and current planning efforts, including the Highway 1 Safety and Mobility Study (Phases 1 and 2).

## LOCAL COASTAL PROGRAM POLICY 2.53 TRANSPORTATION MANAGEMENT PLAN

Develop a comprehensive transportation management plan to address the cumulative traffic impacts of residential development, including single-family, two-family, multi-family, and second dwelling units, on roads and highways in the entire Midcoast, including the City of Half Moon Bay. The plan shall be based on the results of an analysis that identifies the total cumulative traffic impact of projected new development at LCP buildout and shall propose specific LCP policies designed to offset the demand for all new vehicle trips generated by new residential development on Highway 1, Highway 92, and relevant local streets, during commuter peak periods and peak recreation periods; and policies for new residential development to mitigate for residential development's significant adverse cumulative impacts on public access to the beaches of the Midcoast region of San Mateo County.

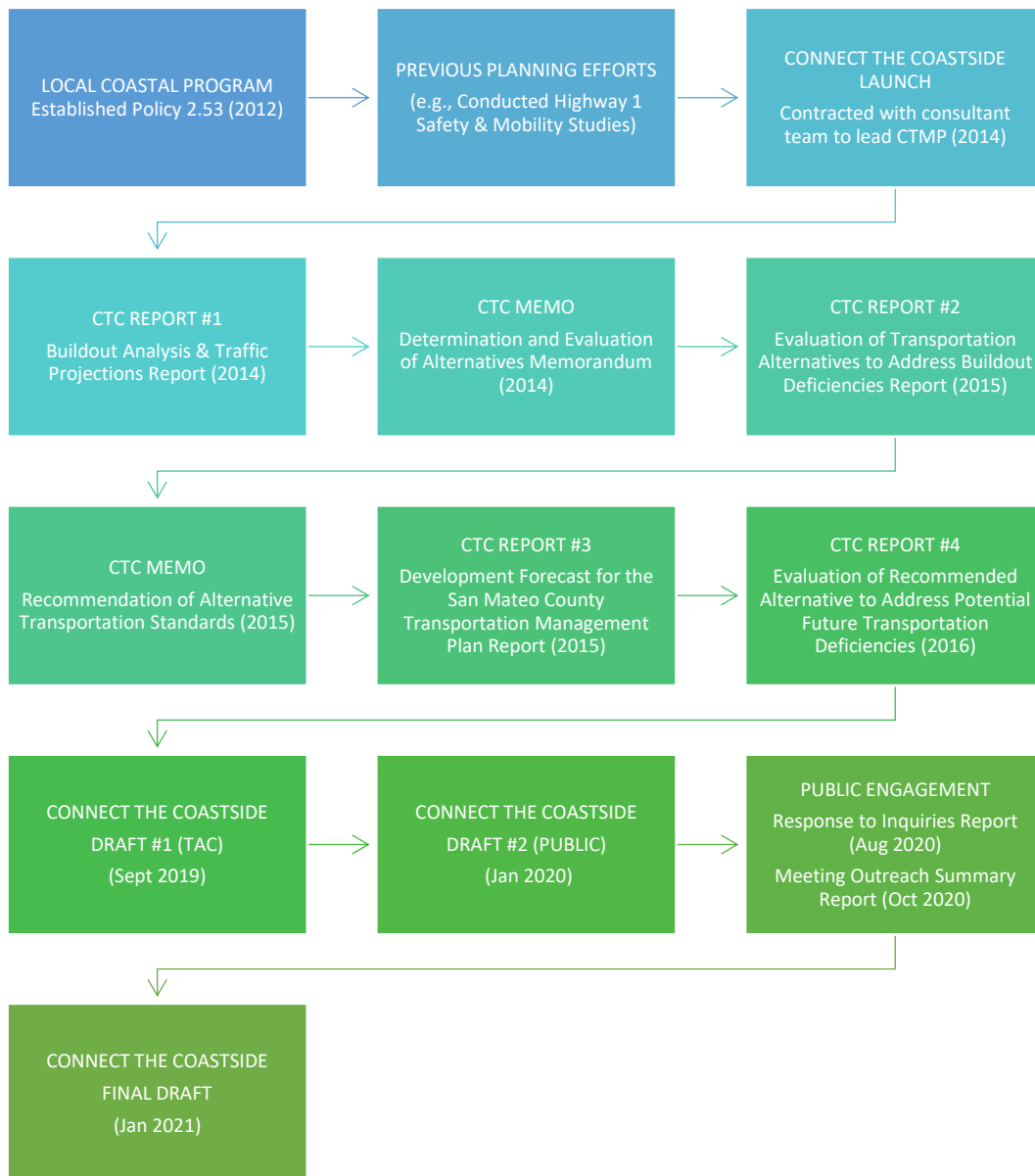
The plan shall thoroughly evaluate the feasibility of developing an in-lieu fee traffic mitigation program, the expansion of public transit, including buses and shuttles, and development of a mandatory lot merger program.

The scope of the project included:

- Collecting data on existing transportation conditions
- Projecting future development
- Analyzing current and future transportation conditions
- Recommending projects, programs, and policies based on the findings

The figure below provides a snapshot of Connect the Coastside’s development process, including the interim deliverables that informed and are referenced in the Plan, which are also available on Connect the Coastside’s webpage: <https://planning.smcgov.org/connect-coastside>

Figure 1: Connect the Coastside Development Timeline and Interim Deliverables



The California Coastal Act and the County’s certified Local Coastal Program direct the County to “protect, maintain, and where feasible, enhance and restore the overall quality of the coastal zone environment and its natural and artificial resources.”<sup>1</sup> Connect the Coastside informs the County’s implementation of the public works and land use components of the Local Coastal Program and outlines the actions and partnerships that will be necessary to achieve recommended improvements. This Plan will support the County’s efforts to pursue funding for priority projects and to prepare San Mateo County Midcoast communities to meet future transportation needs.

The Plan’s recommendations seek to:

- Improve existing traffic conditions and public safety;
- Expand transportation choices for residents and visitors;
- Encourage environmentally-friendly transportation options that reduce car trips, such as walking, biking and public transit;
- Respect the character of Midcoast communities and protect coastal resources; and
- Maintain and improve access to coastal resources for both residents and visitors.

## PLANNING AREA

Connect the Coastside’s **Project Area** includes unincorporated San Mateo County along Highway 1 and the coastline between Devil’s Slide and the northern border of Half Moon Bay – the area covered by the Midcoast Local Coastal Program. This includes the unincorporated communities of Montara, Moss Beach, El Granada, Princeton and Miramar. The Plan’s **Project Area** also includes Highway 92 between Half Moon Bay and Interstate 280. Connect the Coastside’s recommendations are focused within the **Project Area**.

The impacts of development and regional growth affect conditions in the Midcoast; therefore, the Plan’s **Study Area** is larger and includes the City of Half Moon Bay and rural areas surrounding the Study Area. Future growth and development within the Study Area were considered in the traffic impacts analysis.

Map 1: Connect the Coastside Project and Study Areas



<sup>1</sup> California Coastal Act, Section 30001.5(a) Legislative findings and declarations; goals

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# SAN MATEO COUNTY MIDCOAST COMMUNITY

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## SETTING

The original peoples of the San Francisco Peninsula were and are referred to as Ramaytush Ohlone, which is the Chochenyo word meaning "people of the west."<sup>2</sup> Villages were organized around watersheds where there was a great abundance of resources, such as fish, birds, abalone, mussels and oysters.<sup>3</sup> Spanish explorations began in October 1769 when the Portola Expedition arrived in San Pedro Valley. Of the original approximately 1,500 people who inhabited the San Francisco Peninsula prior to the Portola Expedition in 1769, only one lineage is known to have survived. Their descendants comprise the four branches of the Ramaytush Ohlone peoples today. The tribes that are culturally affiliated with the San Mateo County Midcoast include: Amah Mutsun Tribal Band of Mission San Juan Bautista, Costanoan Rumsen Carmel Tribe, Indian Canyon Mutsun Band of Costanoan, Muwekma Ohlone Indian Tribe of the SF Bay Area, the Ohlone Indian Tribe, Wuksache Indian Tribe/Eshom Valley Band, and Rumsen Am:a Tur:ataj Ohlone.

At present, the San Mateo County Midcoast is a locale of low-density neighborhoods and eclectic commercial areas surrounded by open spaces with the vast Pacific Ocean to the west and the Santa Cruz Mountains to the east, setting these communities apart from the metropolitan Bay Area. The Midcoast is comprised of five communities – **Montara, Moss Beach, Princeton, El Granada, and Miramar**, each with defining characteristics, but united by common features of developed areas interspersed with open space and agricultural lands, infusing the Midcoast with a rural character despite its suburban settlement pattern. Important natural resources and habitats in the Midcoast can be found in the Fitzgerald Marine Reserve and several federal, state and county parks and beaches. Because of these characteristics, the Midcoast is an extremely popular recreational destination for Bay Area residents and visitors.

Highway 1 has served as the primary vehicular Midcoast access route since its construction in 1930s and 40s. Highways 1 and 92 form a "T" in Half Moon Bay, the neighboring city to the south of the Midcoast, and these two-lane highways provide the only access to the Midcoast from north, south, and east. These two highways also serve as the only arterial roadways in the Midcoast and are critical to Midcoast mobility for most trips made by auto or transit, including emergency evacuations. As the Bay Area population has grown, the increasing popularity of the Midcoast as a place of residence or employment and as a recreational destination has brought into stark relief the limitations of Highways 1 and 92 to meet the increasing demands for commute, shopping, recreational and other automobile and transit trips.

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<sup>2</sup> Association of Ramaytush Ohlone. <https://www.ramaytush.com/> (Accessed April 2021)

<sup>3</sup> The Ramaytush Ohlone: A Measure K Story Map <https://www.arcgis.com/apps/Cascade/index.html?appid=ff1475b14956474989181b48dbadd487> (Accessed April 2021)

Highways 1 and 92 are generally two-lane roads with left-turn pockets, acceleration lanes, and right-turn lanes at some intersections. Conditions vary from rural, undeveloped surroundings, where traffic movement is typically free, to more urbanized settings in the central community areas, with cross traffic, parking, driveway access, and periods of congestion during school and work commute times. There are periods of gridlock on weekends with good weather and during annual events at Half Moon Bay Airport, Pillar Point Harbor and the City of Half Moon Bay.

On Highway 1, visitors park in designated lots and informally along the highway shoulder for trail and beach access. Through bicyclists make their way along the coast using the highway shoulder, which is narrow in topographically-constrained segments. Pedestrian and bicycle activity is prevalent in the community areas and at locations with access to beaches, surfing, hiking and trail-biking routes.

Posted speed limits on Highway 1 vary from 45 miles per hour (mph) heading south from Devil's Slide through Montara, to 50 mph south of Montara through Moss Beach, to 55 mph south of Moss Beach past Half Moon Bay Airport. At the northern end of the Study Area, a new tunnel and bridges opened in 2013, bypassing the portion of the Highway 1 roadway at Devil's Slide. The bypassed portion was transferred to the County and converted to a public scenic area, and hiking and biking trail. Heading south, Gray Whale Cove State Beach and Montara State Beach are popular destinations and activity generators between Devil's Slide and Montara. Rancho Corral de Tierra east of Highway 1 is managed by the National Park Service and attracts limited recreational visitation to this area. Future plans for improved access to Rancho Corral de Tierra are being developed and could increase recreational visitors.

Ocean view from 9<sup>th</sup> Street and Highway 1 in Montara



Photo courtesy of Lisa Ketcham

In Montara, residential neighborhoods are accessed by the highway and concentrated on the east side. In Moss Beach, large neighborhoods flank both sides of Highway 1. Point Montara Lighthouse, J.V. Fitzgerald Marine Reserve, and Seal Cove are popular destinations and activity generators in Moss Beach. Both Montara and Moss Beach have small commercial areas concentrated along the east side of Highway 1.

Princeton has the greatest concentration of commercial activity in the Midcoast with several popular restaurants, shops, a large hotel, Half Moon Bay Airport, and Pillar Point Harbor, which is home to a small commercial fishing fleet and hosts international surf competitions offshore at Mavericks surf break.

Capistrano Road at Pillar Point Harbor in Princeton



Photo courtesy of Lisa Ketcham

El Granada is the largest Midcoast community with residential neighborhoods sprawling over the hillsides in a unique, formal plan laid out by Daniel Burnham. El Granada's small commercial districts are concentrated along Avenue Alhambra, one at Capistrano Road and another centered around Avenue Portola. Popular and heavily-used Surfer's Beach lies offshore of El Granada and in conjunction with nearby commercial attractions, generates high parking demand largely met by informal parking along Highway 1, in Caltrans unimproved right of way, and undeveloped lands of the Granada Community Services District.

Miramar, which adjoins Half Moon Bay in the southern Midcoast, is characterized by neighborhoods straddling Highway 1 and a small but popular commercial area on Mirada Road. The most popular segment of the California Coastal Trail in the Midcoast traverses Mirada Surf Park, connecting south to Half Moon Bay segments of the trail and extending north to El Granada and Princeton, creating a premier coastal recreational experience.

Between Half Moon Bay and Interstate 280, Highway 92 winds through the Coast Range as a narrow, mainly undivided two and three lane highway with a switchback turn. The east-bound uphill portion has a 1.5-mile-long passing lane beginning 500 feet east of Pilarcitos Creek Road, ending just before the summit and the upper Highways 35/92 intersection. The unincorporated areas on the western slope and valley bottom support a mix of commercial and agricultural uses, many of which host seasonal events that attract thousands of visitors to the area, creating congestion and unsafe pedestrian conditions. The eastern slope facing I-280 is undeveloped and consists of San Francisco Public Utility Commission watershed lands with naturally occurring native oak woodland and some planted groves of non-native trees.

## DEMOGRAPHICS

According to the Census 2019 American Community Survey 5-year estimates, residents of the Midcoast are primarily homeowners. Residents of Moss Beach tend to be younger and a higher percentage speak a language other than English at home, as compared to Montara and El Granada. Most residents work outside of the Midcoast or telecommute. The primary local Midcoast industries are agriculture, commercial fishing, and hospitality.

Table 1: Midcoast Residents Demographics

Census Designated Place (CDP)	Population	Median Age	Median Household Income	Percent Renters	Percent Homeowners	Percentage Who Speak Language Other than English at Home
Montara	2,504	58.9	\$93,167	17.6%	82.4%	7.4%
Moss Beach	3,604	42.9	\$108,860	25.1%	74.9%	25.1%
El Granada	6,102	46.8	\$158,939	16.5%	83.5%	14.5%

Source: U.S. Census Bureau, 2019: American Community Survey 5-year estimates

Note: Data for El Granada includes part of Princeton (east of Capistrano Rd) and all of Miramar; data for Moss Beach includes Princeton.

Table 2: Midcoast Number of Firms and Employees

Census Designated Place	Firms	Employees (Median)
Montara	30	298
Moss Beach	38	392
El Granada	54	661

Source: 2017 Economic Census, U.S. Census Bureau. Dataset: ECNBASIC2017, Table ID: EC1700BASIC. Median estimate for employees listed to address employee ranges provided in data.

## TRAVEL BEHAVIORS

According to the 2019 American Community Survey 5-year Estimates, most Midcoast residents commute to work by driving alone in a vehicle, with average commute times from 32.7 minutes (Moss Beach), 33.2 minutes (El Granada) to 39.3 minutes (Montara). The percentage of residents that regularly worked from home (telecommute) were 9.9% (Montara), 11.2% (El

Granada), and 15.5% (Moss Beach); these residents have minimal work-related travel, helping to reduce traffic impacts.

Table 3: Midcoast Commute to Work Mode

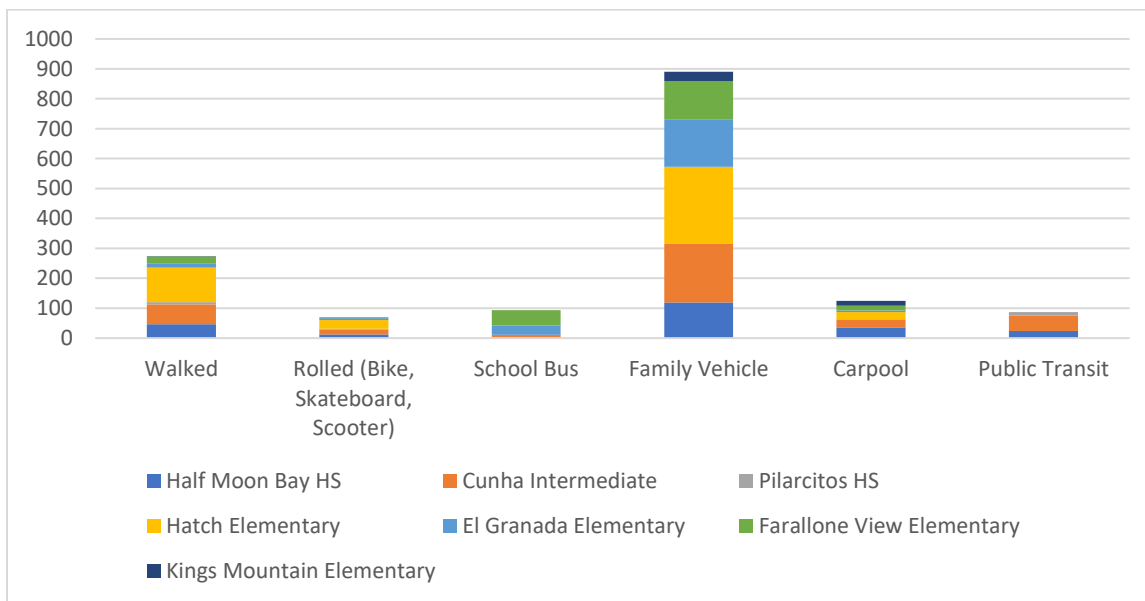
Community	Driving Alone (Car, Truck or Van)	Carpool	Transit	Walk	Bike	Other (Taxi or Motorcycle)	Worked from Home
Montara	80.1%	-	9.9%	-	-	-	9.9%
Moss Beach	58.3%	13.7%	5.8%	1.9%	4.9%	-	15.5%
El Granada	78.1%	6.8%	1.0%	2.6%	-	0.3%	11.2%

Source: U.S. Census Bureau, 2019: American Community Survey 5-year estimates subject tables

Note: Data for El Granada includes part of Princeton (east of Capistrano Rd) and all of Miramar; data for Moss Beach includes Princeton and Seal Cove.

Cabrillo Unified School District conducts a survey of students and their parents as part of its Safe Routes to School program to understand how students travel.<sup>4</sup> The student travel mode survey results from Fall 2019/2020 are shown below. Most students traveled to school by car (64%) with about 24% using an active mode (walking or rolling).

Figure 2: Cabrillo Unified School District SRTS Student Travel Mode Survey Results - Fall 2019/2020



Notes:

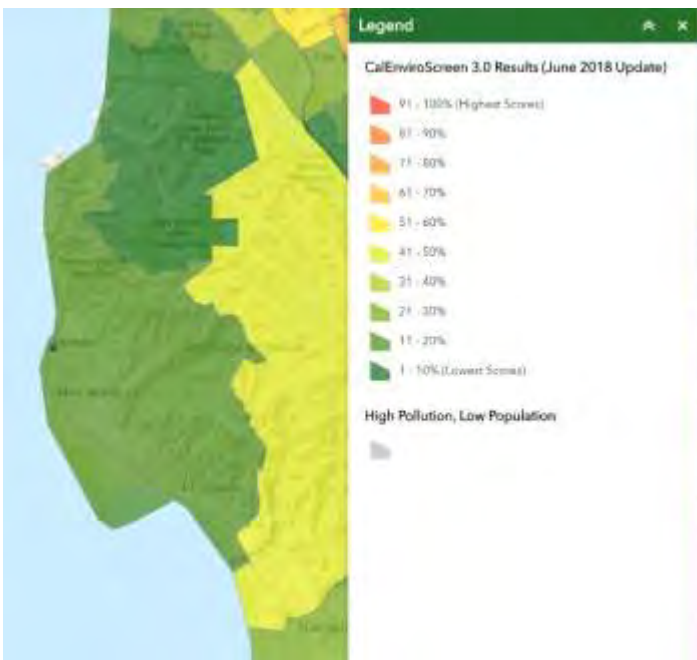
- (1) Source: Carlene Foldenauer, SRTS Coordinator, Cabrillo Unified School District
- (2) Students in intermediate and high school travel to Half Moon Bay
- (3) Tallies do not represent full student population; overall, about half were surveyed
- (4) Results represent average number of students tallied over two days

<sup>4</sup>Cabrillo Unified School District Safe Routes to School ([https://www.cabrillo.k12.ca.us/our\\_community/safe\\_routes\\_to\\_school](https://www.cabrillo.k12.ca.us/our_community/safe_routes_to_school))



## OTHER

Map 2: CalEnviroScreen 3.0 Results for Midcoast Area



**CalEnviroScreen** is a tool that helps identify California communities that are most affected by many sources of pollution, and where people are often especially vulnerable to pollution's effects. The scores are mapped so that different communities can be compared. An area with a high score is one that experiences a much higher pollution burden than areas with low scores. The Midcoast is considered to be less affected than most California communities, ranking in the 10-15% category.

<https://oehha.ca.gov/calenviroscreen>

The **California Healthy Places Index (HPI)** combines 25 community characteristics into a single indexed HPI score. HPI scores for each census tract can be compared across the state to paint an overall picture of health and well-being in each neighborhood in California, with light and dark green areas indicating places with healthier community conditions compared to places symbolized in light and dark blue. This census tract, which includes Montara, Moss Beach, and part of Princeton, has healthier community conditions than 89.8% of other California census tracts. Source:

<https://map.healthyplacesindex.org/>

Map 3: Montara Healthy Places Index (Score 89.8 Percentile)



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## OPPORTUNITIES AND CHALLENGES

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The Midcoast has opportunities and challenges that will affect how the County and its partners address community mobility needs and desires.

### OPPORTUNITIES

Many Midcoast residents are engaged in local government and care passionately about the quality of life and future of the Midcoast, as evidenced by participation in the Midcoast Community Council and community engagement as part of this planning effort. Extensive past planning efforts have further developed community consensus around the type of mobility improvements Midcoast stakeholders want to see as well as community values. Community input shows there is support for thinking about transportation differently, voicing a need for active transportation facilities and a shared desire to avoid widening Highway 1. Many residents already use walking and bicycling for recreation and travel. There is also a shared community desire to reduce development and related impacts, with conservation and environmental considerations a widely-held value. As technology has evolved, so have transportation services and travel behaviors. A substantial number of residents (9 to 15%) already telecommute, helping to reduce the demand for peak-hour travel. Other transportation technologies, such as on-demand transit, could also make it easier to get around the Midcoast and travel to other areas.

### CHALLENGES

The Midcoast faces challenges in realizing community goals and vision for transportation. Climate change has accelerated sea level rise, coastal erosion, and the number and severity of emergencies like wildfires. These changes impact the ability to evacuate and respond to emergencies, and the durability of transportation infrastructure. Some reinforcement projects and emergency work to repair and stabilize roads have proven to be short-term in their efficacy, signaling the need for additional comprehensive planning processes. In Sonoma County, Caltrans and partners are planning for the long-term realignment of Highway 1<sup>5</sup> due to consistent and more frequent damage due to erosion. The San Mateo County Office of Sustainability and Flood and Sea Level Rise Resiliency District have engaged in additional planning and modeling to understand the impacts and extent of sea level rise, flooding, and wildfire on Midcoast communities.

Highway 1 currently serves multiple uses (people traveling through the area, local access to neighborhood business district, and primary road for transit), and with little desire and opportunity to expand capacity, transportation solutions must be creative and encourage behavior change to make an impact. Regional pressures, such as Bay Area population growth, have increased recreational demand and visitor traffic to the Midcoast. The COVID-19 pandemic has also created uncertainty about the future and what travel behavior changes may

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<sup>5</sup> Gleason Beach Roadway Realignment Project (<https://gleasonbeachrealignment.org/>) and <https://www.latimes.com/california/story/2020-11-27/gleason-beach-managed-retreat>

be here to stay, and technology (such as the ability to telecommute and availability of rideshare options like Uber or Lyft), have also changed the times at which people visit the Midcoast and how they get there.

Although there is a shared desire for increased transit services and use, ridership is currently low and development patterns are at the lower end of suburban-level density, making providing transit and service expansion expensive per rider. Because of constraints on Highways 1 and 92, buses are also stuck in traffic along with other vehicles, making express transit service more challenging to provide.

CalEnviroScreen is often used as a measure of disadvantaged community status to help prioritize State and Regional funding to areas of most need. Compared to the rest of the State and region, the Midcoast is not identified as a disadvantaged community and will not compete as well for funding sources that prioritize investments in disadvantaged communities, making the funding strategy to implement recommendations in Connect the Coastside more complex.

### *Climate Change*

Greenhouse gas (GHG) emissions from on-road vehicles made up 34% of total unincorporated County GHG emissions in 2017, one of the largest sources of emissions in the County<sup>6</sup>. The implementation of Connect the Coastside is an opportunity to reduce greenhouse gas emissions from vehicle miles traveled by increasing opportunities for walking, biking, and riding transit on the Midcoast. This is aligned with goals and policies of the General Plan “to reduce vehicle miles traveled by all vehicles traveling in the unincorporated county” and to “promote non-motorized and alternative travel”.

### *Sea Level Rise and Erosion*

In 2018 San Mateo County published a Sea Level Rise Vulnerability Assessment<sup>7</sup> (“Vulnerability Assessment”) for the County as part of the Sea Change SMC<sup>8</sup> initiative. The Vulnerability Assessment used three sea level rise scenarios to identify areas vulnerable to future flooding, and one mid-level scenario for coastal erosion projections to identify areas likely to be lost over time to erosion:

*Table 4: Sea Change San Mateo County Sea Level Rise Scenarios*

SCENARIO	DESCRIPTION
<b>BASELINE SCENARIO</b>	1% annual chance flood (present-day extreme flood also known as 100 year flood)
<b>MID-LEVEL SCENARIO</b>	1% annual chance flood + 3.3 feet of sea level rise
<b>HIGH-END SCENARIO</b>	1% annual chance flood + 6.6 feet of sea level rise
<b>COASTAL EROSION</b>	The projected extent of coastal erosion expected with 4.6 feet of sea level rise

<sup>6</sup> 2017 Emissions Inventory for Unincorporated San Mateo County

<sup>7</sup> Sea Change San Mateo County Vulnerability Assessment - <https://seachangesmc.org/vulnerability-assessment/>

<sup>8</sup> Sea Change San Mateo County - <https://seachangesmc.org/>

These scenarios are shown in the Sea Level Rise and Erosion Maps from the SMC Sea Level Rise Vulnerability Assessment below (see Map 4 on page 14).

The County used sea level rise inundation data from the United States Geological Survey (USGS) and from Point Blue's Our Coast, Our Future tool. The scenarios indicate the projected extent of flooding in the event of a 1% chance annual storm plus sea level rise. The erosion data is from the Pacific Institute Study and was developed by Philip Williams and Associates, Ltd. in 2009. The erosion scenario illustrates potential future erosion with 4.5 feet of sea level rise and assumes no shoreline protective devices.

The Vulnerability Assessment found that certain areas of the Midcoast were vulnerable to sea level rise and erosion. Areas of Montara, Moss Beach and Princeton were found to be at risk of inundation under each of the three sea level rise scenarios. Areas of Montara, Moss Beach, Princeton, Mirada Road, and Highway 1 at Surfer's Beach are all at risk of erosion. Sea level rise and erosion have the potential to impact beaches, parks, trails, roads, and natural habitats in the Midcoast area.

The Vulnerability Assessment included asset vulnerability profiles for both Mirada Road and Highway 1 at Surfer's Beach. The Mirada Road profile found the road highly vulnerable to sea level rise and erosion. Under current conditions, Mirada Road is exposed to high water levels and waves and has experienced erosion failures. Bluff erosion rapidly undercuts the road, making it very sensitive to storm conditions. This segment of Mirada Road is located within the area identified by the Pacific Institute Study as susceptible to erosion. Waves routinely overtop the bluff and throw water across the full width of Mirada Road during storm events. Higher water levels will likely increase the frequency with which Mirada Road and its adjacent properties are exposed to wave impacts and will increase erosion impacts on this road section.

The Vulnerability Assessment found that Highway 1 at Surfer's Beach is highly vulnerable to sea level rise. It is currently exposed to erosive forces, such as waves and water levels, that will only grow more severe with sea level rise. This segment of Highway 1 is within the area identified by the Pacific Institute Study as susceptible to erosion by 2100. Highway 1 is highly exposed at Surfer's Beach; the beach itself is subject to daily high tides and wave action, which have caused significant beach erosion and created the need for repair and ongoing slope protection maintenance along this section of highway.

Future updates to Plan Princeton (described further on page 36) will include a more in-depth look at sea level rise and coastal erosion in the Princeton area. Initial findings indicate that sea level rise and storms will increase the rate of coastal erosion along the Princeton shoreline modifying sediment supply and movement, resulting in a loss of beach, impacts to habitat, public access and recreation, and development. The San Mateo County Harbor District is pursuing a beach nourishment project at Surfer's Beach to improve habitat and public access, and mitigate coastal erosion threatening Highway 1 and the Coastal Trail.

Map 4: Sea Level Rise and Erosion Maps from the SMC Sea Level Rise Vulnerability Assessment



## CONCLUSION

Connect the Coastside attempts to build on the opportunities and strengths of the Midcoast to overcome the challenges that existing conditions create. Through ongoing, active community engagement, perseverance, and by leveraging the political will among decision makers, this Plan can lead to improved mobility conditions in the Midcoast in a way that protects the qualities of the area that makes it so unique.

# 2.Engagement

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## APPROACH

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Recognizing that public understanding and support is important for the success of any planning effort, a guiding principle of the Connect the Coasts process was to follow a robust engagement strategy and incorporate feedback from the public and agency partners throughout the process. Stakeholder outreach was a critical part of the planning process, to ensure oversight for the assumptions, results of analysis, and final recommendations of the project. Each project was produced with considerable input from a Technical Advisory Committee, the Midcoast Community Council, online public surveys and public workshops.

In addition, the Coastal Act recognizes that the public has a right to fully participate in decisions affecting coastal planning and development, and that the planning and implementation of programs for coastal development should include the widest opportunity for public participation. Connect the Coasts also builds on the community outreach that informed the Highway 1 Safety and Mobility Study. This community-based process developed many of the ideas for transportation improvements included in Connect the Coasts.

The goals of the outreach efforts were to hear from as many different Coasts stakeholders as possible and to provide multiple ways to learn about and provide comments on the Plan. Several outreach opportunities focused on reaching a broad cross-section of Coasts stakeholders including youth, monolingual Spanish speakers, workers, renters, and low-income residents.

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## TIMELINE

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Connect the Coasts was conducted in two phases. The first phase took place from 2014 to 2016, and included projecting future development on the Midcoast, analyzing current and future transportation deficiencies, and exploring potential transportation improvements for walking, biking, driving and riding transit. The first phase of the project included extensive community engagement efforts, such as a dedicated project website, a virtual workshop, public presentations, public workshops, and email updates. In 2017 and 2018, the project went on hiatus while a detailed roundabout analysis was conducted.

The second phase took place from 2019 to 2021 and included the preparation and release of a complete draft of Connect the Coasts, gathering extensive input and feedback from the Midcoast community, updating the Plan based on that input, and presenting the final version of the Plan to the community and key decision makers.

The bulk of recent Connect the Coasts outreach efforts took place from April to August 2020 and are summarized in this section. In-person outreach events were originally planned for March and April 2020, but due to the COVID-19 pandemic, the project team postponed and reimagined outreach efforts to ensure the safety of participants. The table below summarizes activities with engagement activities in bold and are described further in the next section.



Table 5: Timeline of Connect the Coastside Planning

Timeframe	Planning Progress
2014 (May – Aug)	<ul style="list-style-type: none"> <li>• Consultant Contract for Connect the Coastside</li> <li>• <b>Midcoast Community Council (MCC), Board of Supervisors (BOS), Workshop (Virtual)</b></li> </ul>
2014 (Sep – Nov)	<ul style="list-style-type: none"> <li>• <b>Technical Advisory Committee (TAC), MCC, Workshop #1</b></li> </ul>
2014 (Dec)	<ul style="list-style-type: none"> <li>• Buildout Analysis &amp; Traffic Projections Report</li> <li>• <b>Planning Commission</b></li> </ul>
2015 (Jan)	<ul style="list-style-type: none"> <li>• Transportation Alternatives Memo</li> </ul>
2015 (Mar – Apr)	<ul style="list-style-type: none"> <li>• <b>Workshop #2, MCC, TAC, City of Half Moon Bay</b></li> <li>• Evaluation of Alternatives to Address Buildout Deficiencies Report</li> </ul>
2015 (Jul)	<ul style="list-style-type: none"> <li>• <b>Board of Supervisors</b></li> </ul>
2015 (Sep - Oct)	<ul style="list-style-type: none"> <li>• Alternative Development Forecast, Alternative Transportation Standards</li> <li>• <b>TAC, MCC, Workshop #3, City of Half Moon Bay</b></li> </ul>
2015 (Nov)	<ul style="list-style-type: none"> <li>• Development Forecast for the San Mateo County Comprehensive Transportation Management Plan Report</li> <li>• <b>Planning Commission</b></li> </ul>
2016 (Feb – Mar)	<ul style="list-style-type: none"> <li>• Evaluation of Recommended Alternative to Address Potential Future Transportation Deficiencies Report</li> <li>• <b>TAC, MCC, City of Half Moon Bay</b></li> </ul>
2016 (Apr – May)	<ul style="list-style-type: none"> <li>• <b>Workshop #4, Planning Commission</b></li> </ul>
2017 (May)	<ul style="list-style-type: none"> <li>• <b>Board of Supervisors</b></li> </ul>
2017 (Aug)	<ul style="list-style-type: none"> <li>• <b>Cypress Avenue Charette</b> (Caltrans, MCC members, County)</li> </ul>
2018 (Nov)	<ul style="list-style-type: none"> <li>• <b>MCC Study Session</b></li> </ul>
2019 (Sep)	<ul style="list-style-type: none"> <li>• <b>Technical Advisory Committee</b></li> </ul>
2020 (Jan)	<ul style="list-style-type: none"> <li>• Connect the Coastside Public Draft</li> <li>• <b>MCC</b></li> </ul>
2020 (Apr)	<ul style="list-style-type: none"> <li>• <b>Montara Water &amp; Sanitary District</b></li> </ul>
2020 (Jun)	<ul style="list-style-type: none"> <li>• <b>Virtual Conversations (3)</b></li> </ul>
2020 (Jul)	<ul style="list-style-type: none"> <li>• <b>MCC (2)</b></li> <li>• <b>Youth Focus Group</b></li> </ul>
2020 (Aug)	<ul style="list-style-type: none"> <li>• <b>Spanish Language Outreach</b></li> <li>• Response to Inquiries Report</li> </ul>
2020 (Sep)	<ul style="list-style-type: none"> <li>• Meeting Outreach Summary Report</li> <li>• <b>MCC, ALAS Youth Group</b></li> </ul>
2020 (Oct)	<ul style="list-style-type: none"> <li>• <b>Moss Beach Transportation Improvement Evaluation</b></li> </ul>
2021 (Jan - Feb)	<ul style="list-style-type: none"> <li>• Connect the Coastside Final Administrative Draft</li> <li>• <b>MCC, Planning Commission</b></li> </ul>

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## ENGAGEMENT ACTIVITIES

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### PROJECT WEBSITE

A project website was used to share information in English and Spanish, and provided an opportunity for people to submit comments. The project website included:

- Background information on the Connect the Coastsides project
- Project updates, including announcements about report releases and public meetings
- A document library with relevant documents & meeting materials
- A comment box for community members to submit comments and sign up for the CTC emailing list
- A list of Frequently Asked Questions (FAQs) with answers
- Informational materials such as factsheets and video presentations
- Next steps for the planning process
- Contact information for project staff

### EMAIL UPDATES & SOCIAL MEDIA

In both phases of the project, the project team used email and social media to keep interested parties informed about Connect the Coastsides and future meetings. These efforts included:

- Blast emails to interested Coastsides residents, businesses and stakeholders
- Posting information on Nextdoor.com, Patch and other social media sites
- Posting short videos about the plan on Facebook

### ONLINE SURVEYS

#### *Virtual Workshop*

In 2014, the project team hosted a virtual workshop where interested stakeholders could submit comments. The project team identified 11 sub-areas of interest in which participants could choose to focus their comments, questions, or concerns; participants could also choose to submit general comments regarding Connect the Coastsides. Comments received were preserved verbatim, for recording accuracy, and catalogued by sub-area as well as primary topic of concern (i.e., bike lanes, pedestrian access, traffic and roadway improvements).

#### *Listening to the Midcoast Survey*

In 2020, the project team participated in and reviewed the findings from the Listening to the Midcoast Mobility online survey, which was led by the Midcoast Community Council and County Supervisor Don Horsley's office. These findings helped to inform and shape the Connect the Coastsides outreach efforts.

## PUBLIC WORKSHOPS & COMMUNITY MEETINGS

The County held seven (7) public workshops while developing and refining Connect the Coastsides. During the first phase of the project from 2014 to 2016, the County held four (4) in-person public workshops. The purpose of these workshops was to inform participants about the purpose and goals of the Plan, update participants on Plan milestones, and solicit their comments and concerns regarding known circulation and development issues in the area.

Between May and June 2020, the Connect the Coastsides project team held three (3) virtual community meetings with Coastsides stakeholders to share information about the draft Plan and to gather input to inform the Plan’s goals and proposed projects. Each meeting included the following:

- Welcome from County District 3 Supervisor Don Horsley
- Presentation on Connect the Coastsides
- Polls to learn about the participants and their transportation priorities
- Question and answer session
- Breakout rooms for small group discussions with feedback recorded by notetakers
- Report out to the larger group from the small group discussions
- Explanation of next steps for moving forward with the Plan

The virtual community meetings were conducted in English and were not translated into Spanish, as the project team heard feedback that bilingual virtual meetings with real time translation did not provide the best experience for Spanish speakers. In total, about 132 community members participated across the three public workshops. Some participated in all three workshops while others attended one or two.

*Table 6: Connect the Coastsides Community Meetings*

Date	Topic	Format	Approximate # of Attendees
<b>November 10, 2014</b>	Opportunities and Constraints	In-person	60
<b>April 15, 2015</b>	Transportation Alternatives	In-person	100
<b>October 22, 2015</b>	Alternative Development-Potential Forecast and Transportation Performance Standards	In-person	n/a
<b>April 7, 2016</b>	Recommended Transportation and Land Use Improvements	In-person	n/a
<b>May 30, 2020</b>	Overview of Connect the Coastsides	Virtual	40
<b>June 15, 2020</b>	Moss Beach, Montara	Virtual	60
<b>June 30, 2020</b>	El Granada, Princeton, Miramar	Virtual	32

### *Strategies for Promoting the Plan*

County staff, members of the Midcoast Community Council (MCC) and several organizations on the Midcoast helped spread the word to community members about the Connect the Coastsides Plan and the community meetings. Efforts were made to reach a broad range of community members from the Midcoast, including people who were familiar with Connect the Coastsides and those who were less familiar with the project. The meetings were promoted through the following methods:

- Email invitations sent to people who expressed interest in receiving updates on Connect the Coastsides
- Personalized emails from County staff to community connectors (representatives of local schools, agencies, community groups and organizations) asking them to spread the word about the meetings
- Articles in the Half Moon Bay Review and Coastsides Buzz
- Posting on the County of San Mateo Nextdoor page
- Postings on the San Mateo County Planning & Building website, the San Mateo County District 3 website, and Midcoast Community Council website
- Flyers posted at post offices, apartments, and shared at Midcoast food distribution events
- Announcements at public meetings including the San Mateo County Planning Commission and the Midcoast Community Council

### **PUBLIC MEETING PRESENTATIONS**

The County has presented information on the Connect the Coastsides project at numerous public meetings, including meetings of the Midcoast Community Council, the San Mateo County Planning Commission, the San Mateo County Board of Supervisors, Half Moon Bay City Council, and the Montara Water and Sanitary District Board.

### **MOSS BEACH TRANSPORTATION IMPROVEMENT EVALUATION**

In October 2020, the County held an evaluation meeting to study Moss Beach with Caltrans staff, three members of the Midcoast Community Council, a member of the Planning Commission, and County staff from Public Works, Planning and Building, Office of Sustainability, and Office of Supervisor Don Horsley. The goals of the meeting were to build connections among key partners, gather input on the feasibility of proposed transportation improvements, and identify critical constraints.

### **TECHNICAL ADVISORY COMMITTEE**

To engage specific stakeholders, the County formed a Technical Advisory Committee (TAC). Members of the committee met six (6) times during the course of the project to provide input. Advisors included representatives from transportation, infrastructure and public safety agencies, schools, businesses and community organizations, and are identified in the acknowledgements section of this Plan. Members reviewed and helped refine plan proposals prior to public meetings and workshops.

## PRESENTATIONS TO COMMUNITY GROUPS

The County presented Connect the Coastside to several community groups, including Half Moon Bay Rotary Club, Sonrisas, Youth Leadership Institute youth group, and the Ayudando Latinos A Soñar (ALAS) youth group.

### *Youth Group Meetings*

The project team collaborated with the Youth Leadership institute (YLI) and Ayudando Latinos A Soñar (ALAS) to host two (2) virtual Zoom meetings to connect with youth who live, work, and/or visit the Coastside, hear about their transportation experiences and needs, and ensure that their needs are incorporated in the Plan. At the meetings, the County provided an overview presentation on Connect the Coastside, and youth participants shared their perspectives on what's working well and what is challenging when it comes to transportation, which Plan ideas are most important, how to improve access to their favorite places, and their vision for transportation on the coast. Youth also responded to several poll questions about how they get around. Biking, walking and transit improvements were most important to this group who rely on family members and friends to get around since they cannot drive.

Outreach Method	Views and Responses
July 7, 2020 YLI Youth focus group	7 youth and 2 staff members from YLI
September 16, 2020 ALAS Youth Group	14 youth and 2 staff members from ALAS

### *Spanish Language Outreach*

To hear from monolingual Spanish speakers who live and work on the Midcoast, the project team used a combination of strategies to provide information about the Plan and ask for input. Outreach was designed to make participation easy and accessible by reaching people in places they already visited and by providing multiple options for participation. The Spanish language options for learning about Connect the Coastside and providing feedback included:

- A Spanish language Connect the Coastside **webpage**
- Seven (7) Spanish language Connect the Coastside **factsheets**
- A 20-minute recorded **presentation** in Spanish that provided an overview of Connect the Coastside and was posted to the Spanish language CtC webpage
- Short (2-3 minute) **videos** in both Spanish and English posted to the ALAS and Coastside Hope Facebook pages, describing Connect the Coastside and asking for input
- A **paper survey** in Spanish and English distributed through the Coastside Hope front desk and food distribution, ALAS food distribution, Pillar Ridge, and El Granada Elementary School lunch service
- **Phone and online surveys** conducted in Spanish

These efforts were successful in reaching a number of people, including:

Outreach Method	Views and Responses
20-minute recorded presentation	14 views
ALAS Facebook Spanish video & comments	137 views, 2 comments
Coastside Hope Spanish video & comments	77 views
Coastside Hope English video & comments	92 views
Paper Survey	25 returned, 16 in Spanish and 9 in English
Online Survey	8 responses
Phone Survey	6 phone surveys completed in Spanish

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## WHAT WE HEARD

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Community input was instrumental in shaping Connect the Coastside. While under development, the Plan evolved in several ways based on the input from the community.

Early community feedback that shaped the Plan included input regarding the proposed development forecast and transportation standards for the project. There was significant stakeholder feedback focused on the level of potential residential and non-residential development identified in the Maximum Buildout Forecast. This led to formulation of the Constrained Development Forecast. Stakeholders were concerned with the high level of potential development that may exceed the transportation, water and wastewater systems capacity. Commenters were also concerned that the current transportation standards might lead to projects that did not fit the context of the Midcoast, leading to the development of alternative evaluation standards.

In general, commenters were supportive of projects that create safer places to walk, bike, and take transit. These include:

- The Multimodal Parallel Trail
- Marked crossings of Highway 1 with other safety features like median islands and lights
- Safe routes to school
- Bicycle lanes and bicycle parking
- Shelters and benches at bus stops
- More frequent and express buses

Commenters were more divided on the Plan's recommendations to improve driving. There were different opinions about the following:

- Whether intersections should have roundabouts, traffic signals or any control
- Providing additional parking and where it should be located
- The roadway design treatments that are best for the Midcoast

Several commenters focused feedback on specific locations in Moss Beach, including the proposed recommendations for Carlos Street. Others had concerns about the transportation and land use data used to inform the Plan's recommendations and wanted to know more about the impact of projects on traffic congestion. Several commenters were concerned about

inconsistencies between the recommendations in the draft Plan and other planning efforts, like Plan Princeton and the Highway 1 Safety and Mobility Study Phases 1 and 2. Many commenters were concerned about how long it would take to implement projects and wanted to know more about how projects would be funded. A few commenters were interested in the land use policy recommendations and suggested making them mandatory.

## CHANGES MADE TO PLAN IN RESPONSE TO COMMUNITY INPUT

Below are some of the ways the project team updated the Plan to respond to community input:

- Added a Constrained Development Forecast to project the amount of potential development in the Midcoast to the year 2040 to provide additional information and context and for use in recommended program development.
- Proposed and applied new transportation performance standards that avoid widening Highway 1 as a solution to deficiencies.
- Ensured consistency with ongoing and past planning efforts (like Plan Princeton and the Highway 1 Safety and Mobility Study Phases 1 and 2), including updating maps and project descriptions.
- Added information on the history of Connect the Coastside, including past outreach efforts.
- Revised the Plan's goals and included more context to address environmental sustainability, accessibility for all ages and abilities, emergency response, and evacuation.
- Updated and/or changed specific project recommendations.
- Expanded the implementation chapter to include a phased approach for project implementation, including a description of the community engagement process that will need to accompany certain projects during future project-level implementation.

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## VISION, GOALS, AND OBJECTIVES

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Connect the Coastside’s vision, goals, and objectives reflect the requirements of the County General Plan and LCP Policies, feedback from Midcoast stakeholders, and findings of the Highway 1 Safety and Mobility Study (Phases 1 and 2). Connect the Coastside’s vision statement represents a shared image of what Midcoast stakeholders hope the transportation system looks like in the future. The Plan’s goals set the general direction toward achieving the vision, and objectives are measurable steps that contribute to reaching each goal.

### VISION

**Create a safe and functional multimodal transportation system that preserves the existing character of the Midcoast, serves both Coastside residents and visitors and accommodates existing and anticipated future traffic.**

### GOALS AND OBJECTIVES

**Goal 1: Improve existing traffic and roadway conditions on the Midcoast.**

- Objective 1.1: Identify existing trouble spots on the Midcoast roadway system and propose mitigation measures.
- Objective 1.2: Consider the impact on emergency response and evacuation when designing and implementing mitigation measures.

**Goal 2: Lessen the cumulative traffic impacts from future development on the Midcoast.**

- Objective 2.1: Evaluate the likely development potential of the Midcoast to identify future impacts to the transportation system and propose measures to offset those impacts.
- Objective 2.2: Evaluate the feasibility of developing an in-lieu fee traffic mitigation program so projects can provide funds to offset their traffic impacts.
- Objective 2.3: Evaluate the feasibility of a mandatory lot merger program and the potential to reduce development by merging contiguously owned substandard lots.

**Goal 3: Increase opportunities for walking, biking, and riding transit on the Midcoast to provide an alternative to motor vehicles, reduce roadway traffic, promote environmental sustainability, and ensure people of all ages and abilities can travel.**

- Objective 3.1: Propose pedestrian projects that address safety and circulation concerns, while meeting relevant performance standards.
- Objective 3.2: Propose bicycle projects that address safety and circulation concerns, while meeting relevant performance standards.
- Objective 3.3: Identify potential improvements to transit service and bus stops on the Midcoast.
- Objective 3.4: Propose pedestrian, bicycle, and transit projects that include age-friendly improvements.



**Goal 4: Respect the character of Midcoast communities and protect coastal and environmental resources.**

- Objective 4.1: Integrate community input into Plan proposals.
- Objective 4.2: Select improvements to avoid damage of Midcoast habitat and maintain visual resources.

**Goal 5: Maintain and improve access to coastal resources for both residents and visitors.**

- Objective 5.1: Identify popular Coastside destinations with access issues and propose solutions to improve access.
- Objective 5.2: Evaluate project ideas for enhanced shoreline public access.

# 3.Planning Context

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## ACTORS, PARTNERS, AND STAKEHOLDERS

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Although San Mateo County has led the effort to develop Connect the Coastsides, there are many agencies that can implement its recommendations. Actors are agencies that have responsibility or ownership for improving or maintaining infrastructure and services in the Midcoast. Partners can work with actors to help implement projects, and often may have resources to support implementation. Stakeholders have an interest in the outcomes of implementation. Collaborators may play a wide range of roles, including:

- Owning the land where Connect the Coastsides recommends projects
- Overseeing the construction of recommended projects
- Playing a part in permitting improvements
- Providing recommended transportation services
- Providing funding for projects
- Providing support or guidance to ensure plan goals are met

### ACTORS

#### *San Mateo County*

San Mateo County is the local government with land use authority for the unincorporated communities of Montara, Moss Beach, El Granada, Miramar, and Princeton, as well as the unincorporated rural lands in the Midcoast. Multiple San Mateo County departments will play a role in implementing the recommendations in Connect the Coastsides, including the Departments of Planning and Building, Public Works, Parks, and the Office of Sustainability. The Planning and Building Department will play a part in moving forward and championing the Plan recommendations, as well as project permitting. The Department of Public Works builds and maintains county roads and infrastructure and manages the county's rights-of-way. The Parks Department operates County parks and trails, including Fitzgerald Marine Reserve, Pillar Point Bluff, Quarry Park, Mirada Surf, and Devil's Slide Trail. The Office of Sustainability works to improve sustainability in the county, including through alternative transportation and greenhouse gas emission reductions, and maintaining and implementing the County's Active Transportation Plan and Climate Action Plan.

#### *Caltrans*

Caltrans is the State's transportation agency and the manager of Highways 1 and 92. Many of the projects identified in Connect the Coastsides rely on active partnerships between the County of San Mateo and Caltrans. Caltrans must approve all modifications within the Highway 1 and Highway 92 rights-of-way, and, in some cases, also construct the improvements within the right-of-way envisioned in Connect the Coastsides. Caltrans manages competitive state and federal funding sources for improvements, as well. The County will need Caltrans' assistance for design, planning, approval, funding and construction of these improvements.

### *SamTrans*

Implementation of Connect the Coastside will rely on a partnership with SamTrans, San Mateo County's transit agency. SamTrans provides bus service to the Coastside and broader county community. Any expansion of transit service will require investments by SamTrans in vehicles, maintenance, and labor. In addition, SamTrans is currently conducting "Reimagine SamTrans," a planning effort that could identify further improvements to Coastside service.

### *California State Parks Departments*

The California State Parks Department provides recreational opportunities at beaches, parks and nature preserves on the Coastside. Some of the improvements in Connect the Coastside, including segments of the Coastal Trail and recreational parking lots, are proposed in state parks. State Park managers can obtain grant funds, secure entitlements, conduct environmental review, construct, maintain, and manage these Connect the Coastside improvements.

### *San Mateo County Harbor District*

Pillar Point Harbor, adjacent to El Granada and Princeton, is managed by the San Mateo County Harbor District. The County may partner with the Harbor District on several Connect the Coastside recommended projects, including improvements to the Coastal Trail.

### *Sewer Authority Mid-Coastside*

Sewer Authority Mid-Coastside (SAM) was founded as a Joint Powers Authority in 1976 to provide wastewater treatment services and contract collection maintenance services to its member agencies, Granada Community Services District and the Montara Water and Sanitary District, which both serve the unincorporated Midcoast. The City of Half Moon Bay is also a member agency of SAM.

### *Granada Community Services District*

The Granada Community Services District provides parks, recreation, garbage, sewer, and recycling services to El Granada, Princeton, and Miramar. The District is currently working on a park plan for the Burnham Strip parcel in El Granada, which creates opportunities for the County and the District to coordinate the Burnham Park planning with planning for the Multimodal Parallel Trail. The County will also work with the District to carefully design and locate projects in the vicinity of existing pipelines.

### *Montara Water & Sanitary District*

The Montara Water & Sanitary District (MWSD) is responsible for maintaining sewer lines and pump stations in the Montara and Moss Beach, including a pipeline under Highway 1 connecting to the sewage treatment plant located in Half Moon Bay. MWSD also manages solid waste with Recology of the Coast, which collects and disposes of waste. MWSD has facilities located along Highway 1 in Moss Beach, which are accessed near the intersection at 16<sup>th</sup> Street and Highway 1. MWSD engages in projects to address its infrastructure and will be a key partner in informing design recommendations to avoid impacts to utilities and operations.

### *Coastside County Water District*

The Coastside County Water District (CCWD) provides water to customers located in El Granada, Miramar, Princeton, and the City of Half Moon Bay, and is responsible for maintaining and upgrading the water distribution pipeline that runs throughout its service area. CCWD manages and operates water supply sources, including Pilarcitos Well Field and the Denniston Project, and pump stations. CCWD engages in projects to address its infrastructure and will be a key partner in informing design recommendations to avoid impacts to utilities and operations.

### *Pacific Gas & Electric Company*

Pacific Gas & Electric Company (PG&E) is the natural gas and electric energy provider for the Midcoast and owns and maintains various infrastructure throughout the area to provide energy to residents and businesses. The County and PG&E will need to collaborate to ensure service is available for implementation of Plan recommendations that require power, such as signals, lighting, and flashing beacons.

## PARTNERS

### *National Parks Service*

Rancho Corral de Tierra was recently made part of the Golden Gate National Recreation Area under the management of the National Parks Service. Several improvements (Highway 1 bike lanes, bike parking, the Multimodal Parallel Trail and the California Coastal Trail) proposed in Connect the Coastside will improve access to Rancho Corral de Tierra. Ongoing coordination with the National Parks Service will be important during the implementation of these projects.

### *San Mateo County Flood and Sea Level Rise Resiliency District (FSLRRD or OneShoreline)*

The San Mateo County Flood and Sea Level Rise Resiliency District (<https://resilientsanmateo.org/>) is an agency that addresses sea level rise, flooding, coastal erosion, and large-scale stormwater infrastructure improvements through integrated regional planning, project implementation, and long-term maintenance. OneShoreline is governed by a seven-member Board of Directors, two of which are members of the County Board of Supervisors. The County will continue to partner with the district to advance multijurisdictional projects that protect coastal resources.

### *City of Half Moon Bay (HMB)*

San Mateo County coordinates with the City of Half Moon Bay on key transportation investments and management strategies. Half Moon Bay is an important partner in alleviating the traffic congestion on Highways 1 and 92. Half Moon Bay can collaborate with the County, plan, design and fund improvements, including obtaining grant funding for projects within Half Moon Bay.

### *San Mateo County Transportation Authority (TA)*

The San Mateo County Transportation Authority administers the proceeds from Measure A, which is a voter-approved half-cent sales tax that funds many different transportation-related projects and programs. The County can apply to the Transportation Authority for Measure A funds to help fund many of the recommended improvements in the Connect the Coastside plan.

### *City/County Association of Governments, Congestion Management Agency (C/CAG-CMA)*

The City/County Association of Governments (C/CAG) is a Joint Powers Authority whose membership includes San Mateo County and its 20 cities. C/CAG works on multiple issues that affect quality of life in general and is the Congestion Management Agency (CMA) for San Mateo County. As the Congestion Management Agency, C/CAG prepares a Congestion Management Program every two years. This program identifies future transportation needs and incorporates projects intended to ease and control congestion. The Congestion Management Program also includes priority allocations of federal, state, and regional monies for city and County transportation projects. C/CAG provides guidance and recommendations on all matters relating to traffic congestion management, travel demand management, coordination of land use and transportation planning, mobile source air quality programs, energy resources and conservation, and other environmental issues facing the jurisdictions in San Mateo County.

### *The Metropolitan Transportation Commission (MTC)*

The Metropolitan Transportation Commission is the transportation planning, financing, and coordinating agency for the nine-county San Francisco Bay Area. MTC collaborates with a network of other public agencies to help support the streets, roads, highways, transit systems and other transportation resources that help millions of people get to where they need to go. MTC and the Association of Bay Area Governments (ABAG) lead the preparation of Plan Bay Area 2050, which includes the regional transportation plan and allocates and prioritizes a variety of transportation funding.

### *California Coastal Commission (CCC)*

The California Coastal Commission implements the California Coastal Act and oversees development within the Coastal Zone. Much of the Connect the Coastside Study Area is located within the Coastal Zone and the jurisdiction of the California Coastal Commission. The County's Local Coastal Program (LCP), which is certified by the Coastal Commission, includes a policy requiring preparation of the Connect the Coastside Plan. The LCP includes policies that address roads and transit, promoting coastal access and protecting coastal resources. These policies will be used in evaluating transportation projects within the Coastal Zone.

### *State Coastal Conservancy*

The Coastal Conservancy is a State agency that protects coastal resources and helps the public enjoy them. The Coastal Conservancy has been tasked by the state legislature to help complete the Coastal Trail. The Coastal Conservancy pursues this mandate in part by awarding grants to public agencies and nonprofit organizations to acquire land rights, and to develop, operate, or manage lands for public access to and along the coast.

## STAKEHOLDERS

### *Midcoast Community Council (MCC)*

The Midcoast Community Council is an elected Municipal Advisory Council to the San Mateo County Board of Supervisors. The MCC represents Montara, Moss Beach, El Granada, Princeton, and Miramar and provides the Midcoast community with an effective means to express its views to the County of San Mateo and other governmental agencies. The MCC assists the Midcoast community in developing and expressing a long-range vision of the Midcoast, which meets the goals of its residents for an improved quality of life, protection of the environment, and sound economic planning. The MCC was instrumental in the preparation of Connect the Coastside and will play an important guiding role in its implementation.

### *Midcoast Residents, Workers & Visitors*

The improvements identified in Connect the Coastside are intended to service Midcoast residents, workers, and visitors. The perspectives and preferences of the people who live, work, and visit the Midcoast were integral to shaping the final plan and recommendations. Implementation of Connect the Coastside recommendations will require the continued input and involvement of stakeholders.

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## POLICY CONTEXT

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Connect the Coastside was shaped by previous planning efforts and will help inform future planning on the Coastside. Several existing laws, community plans and regulatory frameworks have guided the creation of Connect the Coastside, including the:

- California Coastal Act
- San Mateo County Local Coastal Program
- San Mateo County General Plan
- Montara - Moss Beach - El Granada Community Plan
- Highway 1 Safety and Mobility Study

The implementation of Connect the Coastside will continue to be guided by the principles and policies contained in these planning documents.

The list of potential infrastructure improvements recommended in Connect the Coastside was compiled from a variety of sources, including several past and concurrent planning efforts. These planning efforts include Plan Princeton, the Highway 1 Safety and Mobility Study Phases 1 and 2, the Highway 1 Congestion and Safety Improvement Project, the Coastside Access Study, SamTrans Coastside Transit Study, and others. Additionally, some of the proposed infrastructure improvement recommendations were developed during the Connect the Coastside process.

There are several concurrent planning efforts that will also influence transportation on the Midcoast. These projects include Reimagine SamTrans, the Unincorporated San Mateo County Active Transportation Plan, Plan Princeton, County Climate Action Plan, Granada Community Services District Burnham Strip park plan, and the Half Moon Bay Bicycle and Pedestrian Master Plan. The Connect the Coastside project team has been working to make sure the various plans are appropriately coordinated and complement each other.

Once Connect the Coastside is adopted by the Board of Supervisors, the recommended projects will need to be incorporated into local, regional, and state transportation plans to secure funding. These plans include:

- San Mateo County Transportation Authority Strategic Plan
- San Mateo County Congestion Management Plan
- County of San Mateo's Five-Year Capital Improvement Plan (CIP)
- Plan Bay Area
- State Transportation Improvement Program

Following adoption of Connect the Coastside by the Board of Supervisors, a priority action for County staff will be to integrate Connect the Coastside projects into local and state transportation plans and to pursue any needed amendments to the LCP. The table below provides a timeline of key planning and policy efforts.



Table 7: Planning and Policy Efforts Timeline

Year	Plan or Policy
1978	<ul style="list-style-type: none"> <li>• Montara, Moss Beach, El Granada Community Plan</li> </ul>
1980-Present	<ul style="list-style-type: none"> <li>• San Mateo County Local Coastal Program and amendments</li> </ul>
2001	<ul style="list-style-type: none"> <li>• San Mateo County Trails Plan</li> </ul>
2002	<ul style="list-style-type: none"> <li>• Midcoast Recreational Needs Assessment</li> </ul>
2010	<ul style="list-style-type: none"> <li>• Highway 1 Safety &amp; Mobility Study Phase 1</li> <li>• California Coastal Trail Midcoast Pillar Point to Mirada Surf</li> </ul>
2011	<ul style="list-style-type: none"> <li>• San Mateo County Congestion Management Program 2011 (C/CAG)</li> </ul>
2012	<ul style="list-style-type: none"> <li>• CA Coastal Trail MCC Concept Plan</li> <li>• Highway 1 Safety and Mobility Improvement Study Phase 2</li> <li>• San Mateo Local Coastal Program</li> </ul>
2013	<ul style="list-style-type: none"> <li>• San Mateo County Traffic Impact Study Requirements</li> </ul>
2014 (May – Aug)	<ul style="list-style-type: none"> <li>• Plan Princeton Existing Conditions</li> </ul>
2015 (Mar – Apr)	<ul style="list-style-type: none"> <li>• San Mateo County Coastside Access Study</li> </ul>
2015 (Aug)	<ul style="list-style-type: none"> <li>• Highway 1 Congestion and Safety Improvement Project</li> </ul>
2018 (Apr)	<ul style="list-style-type: none"> <li>• Caltrans Transportation Concept Report SR1 South</li> <li>• Caltrans District 4 Bike Plan</li> </ul>
2018 (May)	<ul style="list-style-type: none"> <li>• Half Moon Bay Bicycle and Pedestrian Master Plan</li> </ul>
2018 (Aug)	<ul style="list-style-type: none"> <li>• SamTrans Coastside Transit Study</li> </ul>
2020	<ul style="list-style-type: none"> <li>• Half Moon Bay Local Coastal Land Use Plan Update</li> </ul>
2021	<ul style="list-style-type: none"> <li>• Plan Bay Area 2050</li> <li>• Caltrans District 4 Pedestrian Plan</li> <li>• C/CAG Bike/Ped Plan</li> <li>• Unincorporated San Mateo County Active Transportation Plan</li> </ul>
Ongoing	<ul style="list-style-type: none"> <li>• Plan Princeton</li> <li>• San Mateo County Sustainable Streets Plan</li> <li>• County Climate Action Plan</li> <li>• Southern Skyline Boulevard Ridge Trail Extension (SFPUC)</li> <li>• Reimagine SamTrans</li> </ul>

## SUMMARY OF RELEVANT PLANS & POLICIES

### *California Coastal Act*

Adopted in 1976, the California Coastal Act is a state law that directs the planning and management of the California Coastal Zone, the statewide stretch of coastline along the Pacific Ocean. The Coastal Act establishes a number of foundational goals that aim to protect the coastal environment and ensure maximum public access to the coast. The California Coastal Commission and local governments are responsible for carrying out the Coastal Act and for coastal management. The implementation of Coastal Act policies is accomplished primarily through the preparation of Local Coastal Programs (LCPs), which, when completed by cities and counties located in the Coastal Zone, allow local governments to administer the Coastal Act within their jurisdiction, subject to certain retained powers held by the Coastal Commission.

### *Local Coastal Program*

San Mateo County's Local Coastal Program (LCP) is used to guide development in the Coastal Zone while protecting coastal resources. All development projects in the Coastal Zone require either a Coastal Development Permit or an exemption from Coastal Development Permit requirements. For a permit to be issued, the development must comply with the policies of the LCP. Before any of the transportation infrastructure proposals in Connect the Coastsides are constructed, they must be evaluated and found to be consistent with the policies of the LCP and authorized by a Coastal Development Permit.

In 2012, the Board of Supervisors adopted significant amendments to San Mateo County's Local Coastal Program regarding the Midcoast. One of these amendments was Policy 2.53, which called for the preparation of a "Comprehensive Transportation Management Plan" to address the cumulative impacts of Midcoast development (described in Chapter 4, page 41). Connect the Coastsides is designed to fulfill Policy 2.53 and inform the County's implementation of several other components of the LCP, including the public works and new development components. Some of the standards proposed in Connect the Coastsides, such as the Delay Index, would need to be incorporated into the LCP through an amendment to take effect.

### *San Mateo County General Plan*

The San Mateo County General Plan guides decision making and the physical development of the unincorporated areas of the county. The General Plan contains several chapters that contain policies related to Connect the Coastsides, including:

- Vegetative, Water, Fish and Wildlife Resources
- Park and Recreation Resources
- Visual Quality
- Urban Land Use
- Water Supply
- Transportation
- Housing
- Energy and Climate Change

The General Plan has a goal to plan for a transportation system that provides for the safe, efficient, and convenient movement of people and goods throughout San Mateo County. The General Plan includes policies that guide County participation in regional and local transportation planning, articulating an active role within the County to achieve transportation improvements that support all modes of travel.

#### *Montara-Moss Beach-El Granada Community Plan*

This plan sets goals and policies for the growth of Montara, Moss Beach, and El Granada. The Community Plan contains relevant policies on circulation, road standards, trails, conservation and open space, and community appearance.

#### *Caltrans Transportation Concept Report (TCR) for SR 1 South*

The purpose of the Transportation Concept Report is to evaluate current and projected conditions along state routes and communicate the vision for development in each Caltrans District over a 25-year planning horizon. TCRs are part of Caltrans System Planning. The TCR for SR 1 South is from San Mateo/Santa Cruz County to the Golden Gate Bridge. The TCR's strategies include supporting Connect the Coastsides, completing the California Coastal Trail, implementing new Traffic Operations Systems including variable message signs, improving coastal community safety and mobility with consistent roadway edges, pedestrian crossings, and monitoring and planning for sea level rise.

#### *Highway 1 Safety and Mobility Study*

The Highway 1 Safety and Mobility Improvement Study Phases 1 and 2 are community-based transportation studies with recommended improvements to Highway 1 in the unincorporated communities of Princeton, El Granada, Miramar, Montara, and Moss Beach. The Phase 1 effort was funded through a Caltrans Community-Based Transportation Planning Grant in partnership with the Local Government Commission. The Plan was developed through an extensive community process that included a focus groups, community workshops, walk audits, and a design charrette. Many of the recommendations in Connect the Coastsides are from these studies.

#### *Unincorporated San Mateo County Active Transportation Plan*

The Unincorporated San Mateo County Active Transportation Plan provides a framework to improve active transportation conditions for people walking and biking throughout unincorporated county communities, and includes proposed projects, programs, and policies to do so. The Active Transportation Plan prioritizes projects in unincorporated areas across the Bayside and Coastsides. The Active Transportation Plan was approved by the County Board of Supervisors in February 2021.

#### *Plan Princeton*

Plan Princeton is a study being conducted by San Mateo County to update the land use plan for Princeton. The project will focus on the area west of and including Highway 1, between Pillar Point Harbor and Moss Beach. The purpose of this project is to make a comprehensive update to the policies, plans, and standards regulating the Princeton area. The Connect the Coastsides project team has coordinated with the Plan Princeton project team to ensure consistency between the two plans.

### *Reimagine SamTrans*

In summer 2019, SamTrans launched “Reimagine SamTrans” an effort to undergo a comprehensive operational analysis (COA) to identify the challenges in the current bus system using data and public engagement and identify opportunities to improve SamTrans service. The overarching goals of Reimagine SamTrans are to improve the transit experience, grow new and more frequent ridership, and build SamTrans’ efficiency as a mobility provider.

Recommendations from Reimagine SamTrans could include route, system, and/or vehicle size changes, improved connectivity with regional providers, new service models or pilot programs, and more. The effort provides an opportunity for Midcoast residents to share their transit needs and concerns directly with SamTrans and identify potential solutions. SamTrans put a hold on the effort due to the COVID-19 public health crisis and restarted the project in 2021.

### *Granada Community Services District Burnham Strip Park Plan*

The Granada Community Services District has developed a Preliminary Burnham Park Plan for the creation of a park on the Burnham Strip in El Granada between Highway 1 and Obispo Road, with plan submission targeted for the first quarter of 2021. The Connect the Coastside project team will continue to coordinate with the Granada Community Services District on creating connections between the future park and the Multimodal Parallel Trail and addressing parking needs.

### *Plan Half Moon Bay*

In summer 2013, the City of Half Moon Bay initiated a process to update its General Plan, Local Coastal Program, and Zoning Ordinance (Plan Half Moon Bay - <https://planhmb.org/>). At their October 20, 2020 regular meeting, the City Council voted to approve the Half Moon Bay Local Coastal Land Use Plan Update and submit it to the California Coastal Commission for certification. The Local Coastal Land Use Plan was certified by the California Coastal Commission in April 2021.<sup>9</sup> The Land Use Plan contains the primary policies governing land use and development within the city limits, including policies on transportation.

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<sup>9</sup> Half Moon Bay Local Coastal Program and Land Use Plan. <https://www.half-moon-bay.ca.us/154/Local-Coastal-Program-Land-Use-Plan> (Accessed April 2021)

# 4. Existing and Projected Land Use Conditions

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## BACKGROUND

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The way we use land has a major impact on traffic and the way people travel. A key objective of Connect the Coastside is to identify the land use policies and transportation improvements that can be implemented to mitigate the traffic impacts of future growth (per Local Coastal Program Policy 2.53). In order to do this, the project team took several steps:

First, the project team evaluated **existing conditions** to understand current development patterns and the associated traffic impacts. The existing conditions analyses clarifies what is already a traffic problem or concern that might need to be addressed now, and that might be made worse in the future as the population and number of visitors to and within the Study Area grows.

Next, the project team **projected the future development potential** of the Study Area by creating buildout forecasts. This is an estimate of how more residential units and commercial square footage could be expected in the future. The buildout forecast is an input to a travel demand model, which can be used to project future transportation conditions, forecast the need for and potential effectiveness of transportation projects and infrastructure improvements, and identify the traffic impacts of land use development.

Finally, the project team analyzed the **feasibility of developing a mandatory lot merger program** as required by Local Coastal Program Policy 2.53.

This chapter describes existing land use conditions and the future projected land use and development conditions that serve as the backdrop for the transportation analysis. The processes summarized here are described in more detail in the “Development Forecast for the San Mateo County Comprehensive Transportation Management Plan Public Review Draft” (October 2015) and “Buildout Analysis and Traffic Projections Report” (September 2014).

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## EXISTING LAND USE AND DEVELOPMENT

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Land uses in the unincorporated Connect the Coastside Study Area include a mix of residential, commercial, agriculture, industrial, institutional, recreational, and airport. Most land in the unincorporated Connect the Coastside Study Area is reserved for Open Space and Agriculture. Many of the traffic generating uses (residential, commercial, industrial, and recreation) in the unincorporated Study Area are concentrated in the Midcoast Planning Area along Highway 1.

Map 5: Midcoast and Unincorporated Study Area General Plan Land Uses

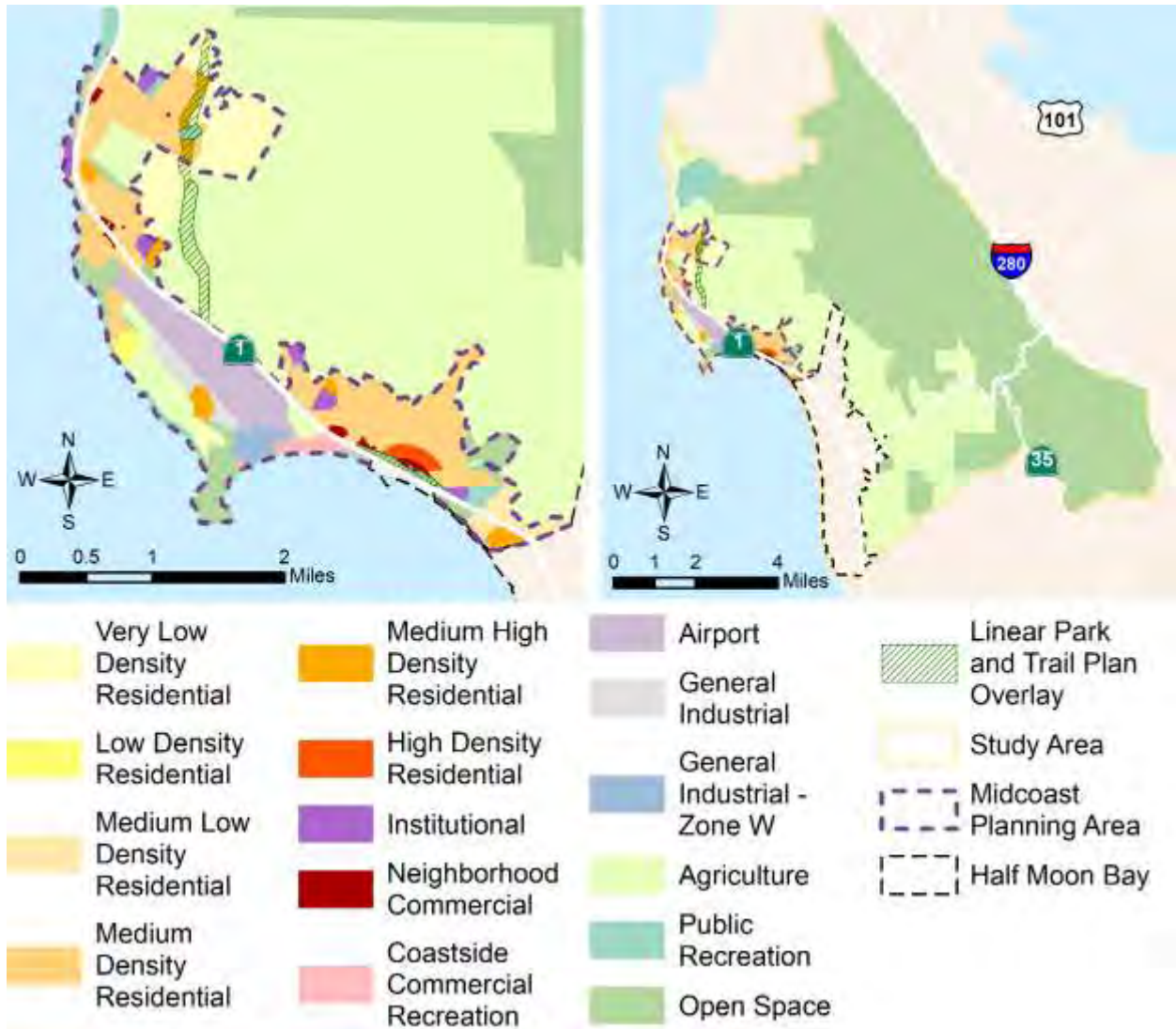


Table 8: Study Area General Plan Land Uses (Unincorporated)

Land Use Type	Percentage
Open Space	65.14%
Agriculture	27.81%
Residential	3.27%
Recreation	2.29%
Airport	0.72%
Linear Park and Trail Plan Overlay	0.31%
Industrial	0.25%
Institutional	0.16%
Commercial	0.06%

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## PROJECTED LAND USE AND DEVELOPMENT

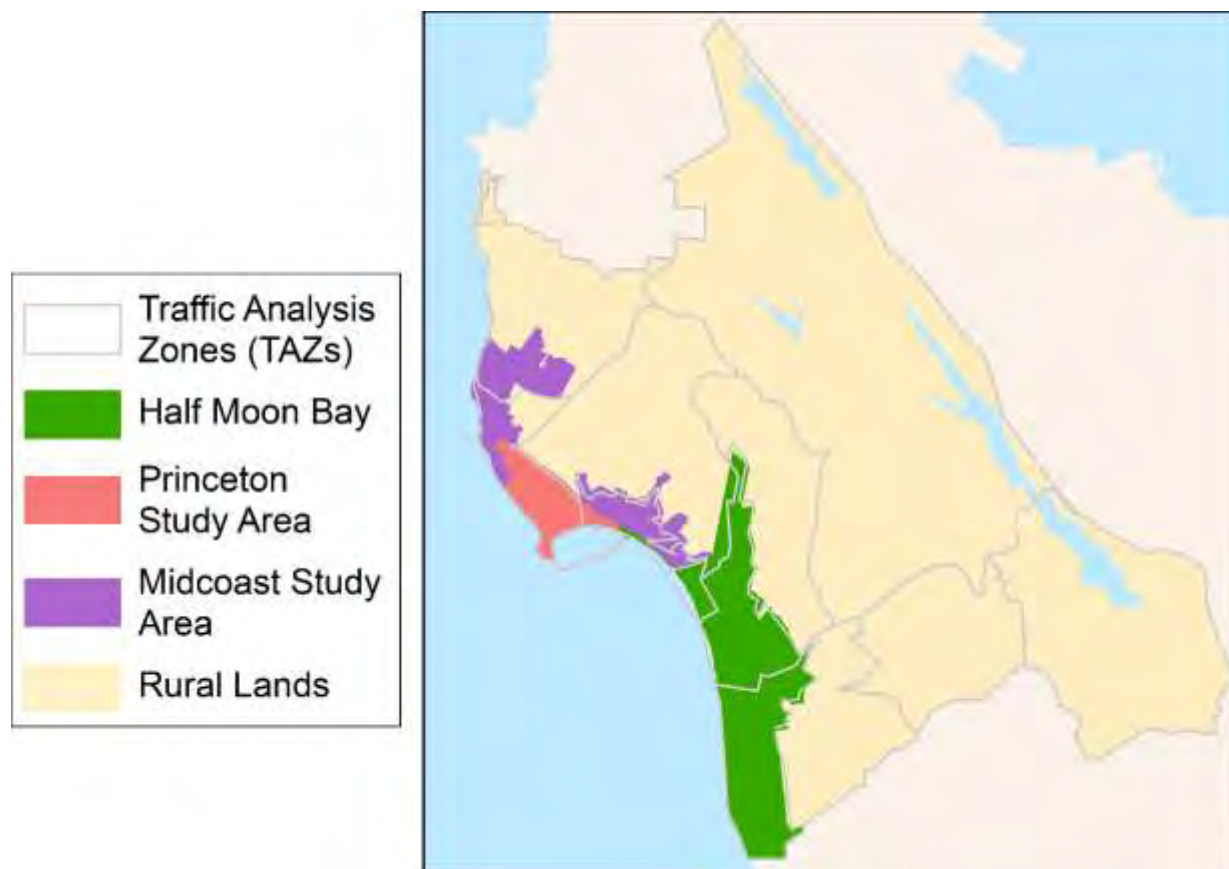
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### MAXIMUM BUILDOUT FORECAST

The project team developed a **Maximum Buildout Forecast (MBF)** in 2014 to use as an input for the travel demand model and make estimates about future traffic conditions on the Midcoast. The buildout analysis identifies the theoretical maximum amount of development that could occur if all available land is developed to its full potential under current regulations. In other words, **buildout is the planned endpoint in a community's growth**. LCP Policy 2.53 specifically requires that Connect the Coastside analyze the traffic impacts of projected new development at LCP buildout, which means using the current land use policies and zoning rules of Local Coastal Program to calculate buildout.

The Maximum Buildout Forecast looked at both residential and non-residential uses in order to create a holistic estimate about future traffic conditions. The forecast included four subareas: the Midcoast; Princeton; Rural Lands; and Half Moon Bay. The City of Half Moon Bay was included in the forecast because development in Half Moon Bay can impact traffic in the unincorporated Midcoast and Highway 92 project area. The boundaries of the development analysis were determined by the Traffic Analysis Zones (TAZ) used by the travel demand model.

*Map 6: Subareas and Traffic Analysis Zones*





The Maximum Buildout Forecast was created using the following information:

- Existing parcel data
- Existing zoning
- Natural features data
- Public lands data
- County Assessor data: existing land use and (to the extent available) existing building square footage, assessed building and land value, and property ownership

The development analysis also included assumptions to estimate:

- (1) the amount of existing development, for parcels for which this data was not included in the Assessor’s data file, and
- (2) the amount and type of future development projected on “opportunity sites.”

Opportunity sites were identified for each subarea. Opportunity sites are parcels that are undeveloped or underutilized and which are likely be developed in the future. Assumptions followed those of the San Mateo County Midcoast LCP Update and the Plan Princeton effort, where relevant. Development assumptions for both residential and non-residential development were refined based on what is allowed by zoning, the typical density and intensity of existing development, and regulatory constraint factors.

*Table 9: Residential Development in 2014 and at Maximum Buildout*

Subarea	Existing (2014) Housing Units	Maximum Buildout Housing Units
<b>Half Moon Bay</b>	4,072*	5,258
<b>Princeton</b>	264	384
<b>Midcoast</b>	3,961	6,558
<b>Rural Lands</b>	76	152
<b>Total</b>	<b>8,373</b>	<b>12,352</b>

\*409 existing mobile homes were not accounted for in the November 2014 Existing Conditions Report.

*Table 10: Non-Residential Development in 2014 and at Maximum Buildout Forecast*

Subarea	Existing (2014)		Maximum Buildout	
	Non-Residential Sq. Ft.	Total Jobs	Non-Residential Sq. Ft.	Total Jobs
<b>Half Moon Bay</b>	3,668,093	4,904	5,097,000	6,616
<b>Princeton</b>	1,205,000	1,112	2,276,00	1,987
<b>Midcoast</b>	958,200	933	1,161,100	1,212
<b>Rural Lands</b>	-	82	-	82
<b>Total</b>	<b>5,831,293</b>	<b>7,032</b>	<b>8,533,906</b>	<b>9,897</b>

## CONSTRAINED DEVELOPMENT FORECAST

There are many existing constraints that make achieving the Maximum Buildout Forecast unlikely due to policies that restrict development in the Study Area. In response to feedback from stakeholders, a **Constrained Development Forecast (CDF)** was created in 2015 to project development until the year 2040, which is consistent with other local and regional forecasts. As part of this effort, a modified Maximum Buildout Forecast was created to account for updated data and assumptions, including corrections to data on existing and proposed development and reconsideration of employment density assumptions. The CDF used the modified Maximum Buildout Forecast as a starting point, and then took into account the following potential constraints:

- San Mateo County LCP Policy 1.23, which limits residential development in the unincorporated Midcoast to 40 units per year, and
- The market demand for new housing and non-residential development in Half Moon Bay based on the market analysis conducted in 2014 for the Half Moon Bay General Plan Update.

The CDF also considered Half Moon Bay Measure D, which limits residential growth to 1 percent annually in Half Moon Bay and 1.5 percent Downtown. For Half Moon Bay, the zoning-based forecast resulted in a lower level of residential development than would be allowed under Measure D. Thus, zoning would be the most limiting factor for residential development in Half Moon Bay.

*Table 11: Residential Constrained Development Forecast for 2040*

Subarea	Existing (2014) Single-family Units	Existing (2014) Multi-family Units	Existing (2014) Total Housing (Single + Multifamily) Units	Projected 2040 Housing Units
<b>Half Moon Bay</b>	3,493	988	4,481*	5,335
<b>Princeton</b>	250	13**	263	289
<b>Midcoast</b>	3,679	282	3,961	4,975
<b>Rural Lands</b>	76	-	76	152
<b>Total</b>	<b>7,498</b>	<b>1,283</b>	<b>8,781</b>	<b>10,750</b>

\*Existing development in Half Moon Bay has been corrected since November 2014 Existing Conditions Report. Existing mobile homes were not accounted for in that report; this results in increase of 409 units.

\*\*Caretaker units in Princeton are categorized as multi-family.

Table 12: Non-Residential Constrained Development Forecast for 2040

Subarea	Existing (2014)		Projected 2040	
	Non-Residential Sq. Ft.	Total Jobs	Non-Residential Sq. Ft.	Total Jobs
Half Moon Bay	1,597,200	5,334	1,928,680	5,704
Princeton	583,500	1,385	1,579,900	3,437
Midcoast	655,600	1,084	811,400	1,467
Rural Lands	-	82	-	82
<b>Total</b>	<b>2,836,300</b>	<b>7,885</b>	<b>4,319,980</b>	<b>10,690</b>

The Constrained Development Forecast represents a more realistic projection of future development to the year 2040 than the Maximum Buildout Forecast. However, many factors will contribute to the amount of actual development that will take place by 2040, and the Constrained Development Forecast represents just one estimate of future conditions.

### DEVELOPMENT BETWEEN 2015 AND 2020

Since 2014, 107 additional units were constructed in the unincorporated Midcoast, averaging about 18 new housing units each year. This is well below the limit of 40 new housing units in Midcoast required by LCP 1.23 and below the amount of yearly new units predicted by the Constrained Development Forecast. The amount of non-residential development in the unincorporated Midcoast is also less than the amount predicted by the Constrained Development Forecast for that period of time.

Table 13: Annual Development from 2015 to 2020

Year	New Midcoast Housing Units Constructed	New Midcoast Non-Residential Sq. Ft. Constructed
<b>2015</b>	12	6,318
<b>2016</b>	11	3,980
<b>2017</b>	22	-
<b>2018</b>	25	-
<b>2019</b>	16	-
<b>2020</b>	21	2,286
<b>Total</b>	<b>107</b>	<b>12,584</b>

## CITY OF HALF MOON BAY LAND USE PLAN UPDATE

In 2020, the City of Half Moon Bay (HMB) updated their Local Coastal Land Use Plan (LCLUP), which was certified by the California Coastal Commission in April 2021. The updated HMB LCLUP includes a development analysis that forecasts development for both the year 2040 and for maximum theoretical buildout. The HMB LCLUP development analysis differs from the CTC development analysis in the following ways:

- The HMB LCLUP development analysis accounts for the new policies in the updated HMB Land Use Plan.
- The CTC development analysis uses 2014 as a starting year, while the HMB development analysis uses 2018 as a starting year.
- The two development analyses use different assumptions to estimate future development.

While policies in the updated plan will impact the amount and location of future development, overall, the HMB LCLUP maximum theoretical buildout forecast estimates a 1,315 unit decrease from what the previous 1996 Land Use Plan anticipated. HMB LCLUP policies that impact future development include:

- A Town Center concept that concentrates future development in a walkable core area with a diverse mix of land uses, including businesses, shops, housing, and public spaces. Concentrating new development in the Town Center ensures that future homes and jobs will generate less traffic and other impacts.
- A Workforce Housing Overlay that creates affordable housing sites for agriculture, horticulture, specified churches, public schools, and State parklands. The Workforce Housing Overlay is intended to reduce vehicle trips by providing housing closer to places of employment on the coast.
- The Planned Development (PD) land use designation was re-assessed to better understand site constraints and planning approaches for the substantially undeveloped PDs. Several substantially developed PDs were re-designated to reflect their actual land uses.

*Table 14: City of Half Moon Bay 2020 Local Coastal Land Use Plan Development Forecast Summary*

	Existing (2018)	2040 Projection	Maximum Theoretical Buildout
<b>Housing Units</b>	4,830	5,612	7,051
<b>Jobs</b>	5,379	6,053	7,684

Source: Half Moon Bay Local Coastal Land Use Plan (Updated 2020). Table B-6 on page B-5. <https://www.half-moon-bay.ca.us/154/Local-Coastal-Program-Land-Use-Plan> (Accessed April 2021)

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## LOT MERGER PROGRAM FEASIBILITY ANALYSIS

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Local Coastal Program Policy 2.53 requires this Plan to thoroughly evaluate the feasibility of developing a mandatory lot merger program. This section: traces the origin for the idea of a mandatory lot merger program in the Midcoast; discusses the challenges of implementing a mandatory lot merger program; and describes how the Witt and Abernathy decisions, the 2017 update to County Subdivision Regulations, and the preferences of property owners are leading to the creation of legal parcels at or above today's minimum parcel size without the need for a mandatory lot merger program. Based on this analysis, Connect the Coastside recommends continuing the practice of reviewing development applications for opportunities to merge contiguously owned parcels.

### DEFINITIONS

Definitions relevant to this discussion from the San Mateo County Subdivision regulations include:

- **Certificate of Compliance:** A written statement, issued by the County upon request of a property owner or vendee, stating that a parcel of real property complies with the provisions of the Map Act and the County Subdivision Regulations. A conditional certificate of compliance may be issued subject to the fulfillment of conditions necessary to bring the property into compliance with the Map Act. A recorded final map or parcel map constitutes a certificate of compliance.
- **Legal Parcel:** A lot created by (1) a subdivision approved by the County, or (2) other means subsequently legalized by the recording of a Certificate of Compliance or a Conditional Certificate of Compliance and fulfillment of all conditions therein. The term "legal parcel" relates to how the parcel was created and not to title or ownership status.
- **Lot:** A piece of land legally established and separated from all other land as the result of a County approved and recorded final, or parcel map, and which is intended to be sold, leased, or used independently from other lots.
- **Parcel:** A discrete quantity of land, described by metes and bounds, in the possession of, owned by, under title to, or recorded as the property of one or more owners with whom rests some or all the property rights associated with the particular piece of land.

### HISTORY OF MIDCOAST SUBDIVISIONS

In the early 1900s, much of the Midcoast was subdivided into residential tracts with 25' x 100' (2,500 sq. ft.) being the predominant size. These 25' x 100' (2,500 sq. ft.) parcels are now considered substandard because the minimum parcel size for most residential zones is 5,000 sq. ft. (see Ch. 20 of the San Mateo County Zoning Regulations). Many of these original parcels have been sold together throughout the years. Some contiguously-owned parcels have been developed together with one residential unit, while other contiguously-owned parcels remain undeveloped. Some of these original parcels have been officially merged together. Other

parcels remain as undeveloped substandard parcels that do not conform to today's minimum parcel size.

## LOCAL COASTAL PROGRAM UPDATE

An update to the San Mateo County Local Coastal Program (LCP) was initiated in 1999. The scope of this update included, among other things:

- Update the estimate of Midcoast residential buildout;
- Propose projects to reduce traffic congestion on Highway 1;
- Authorize a substandard lot merger process; and
- Add incentives for voluntary substandard lot merger.

The San Mateo County Board of Supervisors (BOS) approved an initial set of proposed LCP amendments in November 2006. The California Coastal Commission (CCC) suggested several modifications to the proposed LCP amendments in 2009. County staff then developed alternatives to the CCC's suggested modifications of concern, and the BOS approved a resubmittal of an updated version of LCP amendments to the CCC in May 2011. The CCC approved the resubmitted LCP amendments on August 8, 2012.

The approved LCP amendments included updated buildout numbers and a policy to develop a Comprehensive Transportation Management Plan that would thoroughly evaluate the feasibility of developing a mandatory lot merger program to further reduce buildout potential.

### *Buildout Projections*

The updated estimate of the Midcoast residential buildout included in the LCP amendments did not assume that a residential unit would be built on each substandard parcel and did not count each substandard parcel as a potential housing unit because the analysis assumed that substandard parcels would be merged into standard-sized parcels. The analysis found that many lots on the Midcoast were developed as two or three parcel properties that shared one (1) dwelling unit. A handful of lots were developed as four 2,500 sq. ft. parcel properties, which could in the future create two lots of 5,000 square feet each. The analysis also found several undeveloped two and three parcel properties, which were assumed to be merged in the buildout analysis.

### *Lot Merger Program*

In 2006, the Board of Supervisors approved a policy that authorized staff to initiate a lot merger process for applicable Midcoast properties. This policy was approved as part of the larger proposal to update to the Local Coastal Program.

Applicable properties included properties that were (a) zoned R-1, R-3, or RM-CZ; (b) comprised of substandard lots created by a recorded major subdivision<sup>10</sup>; and (c) located in certain areas of the Midcoast shown on a map that was included in the policy. Further, applicable properties had to possess all the following conditions:

- a. At least two contiguous lots or parcels are owned by the same person or entity under the same name, i.e., in common ownership, and
- b. At least one lot or parcel is undeveloped, or is developed only to the extent described in Subdivision Regulations Section 7118, and
- c. The area of at least one lot is less than:
  - (1) R-1 or R-3 zoning district – 4,500 sq. ft.
  - (2) RM-CZ zoning district – 5,000 sq. ft.

This policy specified that parcels on applicable properties zoned R-1 or R-3 shall be merged up to a parcel area that is either a. or b. below, whichever is larger:

- a. At least 5,000 sq. ft., plus the area of any remaining contiguous lot(s) that cannot be merged along existing lot lines into a separate parcel that is at least 5,000 sq. ft., or
- b. At least the minimum parcel size for the applicable zoning district, plus the area of any remaining contiguous lot(s) that cannot be merged along existing lot lines into a separate parcel that is at least the minimum parcel size for the zoning district.

Lots on applicable properties zoned RM-CZ were to be merged with the goal aggregating lots to at least a five (5) acres parcel area.

The policy included two phases: Phase 1 - Voluntary Merger was to last for up to 21 months, followed by Phase 2 – Mandatory Merger to begin when Phase 1 terminated. Additionally, the policy specified that for developed properties comprised of two substandard parcels, lot merger shall occur at that time when an application has been received to construct, enlarge, or demolish a house on the property.

The merger program was not intended to go into effect until the LCP amendments were certified, which did not happen until 2012<sup>11</sup>. This is because although the merger program itself was not included as part of the LCP amendments, the various incentives for merger were included as proposed changes to the zoning districts in the Implementation Plan<sup>12</sup>. The

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<sup>10</sup> Major Subdivisions are generally defined as divisions of land that result in the creation of five (5) or more parcels, with several exceptions. See the San Mateo County Subdivision Regulations for a full definition of Major Subdivision.

<sup>11</sup> See page 310 of the August 8, 2012 [California Coastal Commission Meeting Staff Report](#).

<sup>12</sup> See Exhibit 2 of the August 8, 2012 [California Coastal Commission Meeting Staff Report](#) for the Implementation Plan.

incentives for voluntary merger were approved as part of the 2012 LCP Implementation Plan and are currently included in the County's Zoning Regulations. The Coastal Commission's certification of these incentives occurred a few years after the 2009 Witt and Abernathy court decisions, which, as described below, raised new issues regarding the process and standards for legalizing and merging substandard parcels.

## WITT AND ABERNATHY DECISIONS

Witt Home Ranch, Inc. v. County of Sonoma (2008) 165 Cal.App.4th 543 and Abernathy Valley, Inc. v. County of Solano (2009) 173 Cal.App.4th 42, hold that mere reference to a subdivision map filed in compliance with the state subdivision map law in effect before 1915, without more, does not conclusively establish the legality of parcels described on the filed map. Many of the subdivision maps for the Midcoast were filed during the period from 1900 to 1915.

In light of the Witt and Abernathy decisions, many of the substandard parcels that would have been considered for the lot merger program may not be legal. To be developed, these parcels may require remedies to conform to current zoning regulations, such as a lot merger or subdivision.

These facts were considered when calculating the buildout potential included in the LCP update. As County Counsel, Michael Murphy states in his July 7, 2009 Supplemental Memorandum to the Board of Supervisors, "...Witt and Abernathy should not significantly affect the 'theoretical' buildout assumptions, which are assumptions that are contained in the Local Coastal Program. While the precise impact of Witt and Abernathy can only be determined as property owners apply for development approvals and establish the legality of their lots, the ultimate result can only be a reduction in buildout from that which would have occurred absent Witt and Abernathy."

At present, the legality of most Midcoast substandard parcels remains unknown. Parcel legality is typically established when property owners apply for development approvals. A legal parcel can be created by a subdivision approved by the County or subsequently legalized by the recording of a Certificate of Compliance (COC Type A) or a Conditional Certificate of Compliance (COC Type B) and fulfillment of all conditions therein. A Certificate of Compliance is issued by the County upon the request of a property owner or vendee. A parcel is eligible for a COC Type A when the chain of title shows the parcel was separately conveyed from any lots around it prior to the County's first Subdivision Ordinance (effective July 20, 1945). When legal status cannot be confirmed through chain of title research, a parcel will receive a COC Type B along with any conditions necessary to bring the property into compliance with the Subdivision Map Act.

What is known is that the requirements to legalize substandard parcels have become more difficult since the Board of Supervisors initially adopted the lot merger program due to the Witt and Abernathy decisions and the 2017 update the County's Subdivision Regulations, described below. If the County were to move forward with a mandatory lot merger program under



current circumstances, it could create a larger number of legal parcels in a shorter period of time than would otherwise be created through the required lot legalization process that must precede any new development proposed by the owner of a substandard lot. Consequently, a mandatory lot merger program could intensify the rate and amount of development in the Midcoast and thereby have the opposite effect of what was originally intended.

## 2017 SUBDIVISION REGULATIONS UPDATE

On December 12, 2017, the BOS approved an ordinance to amend the County's Subdivision Regulations<sup>13</sup>. This amendment incorporated State Subdivision Map Act changes, better implemented the County's General Plan and Local Coastal Program, updated procedures for performing lot mergers, and clarified existing Certificate of Compliance (COC) provisions.

The update included several items that are relevant in considering the applicability of a mandatory lot merger program, including:

- A requirement for lot merger that the “applicant has obtained a Certificate of Compliance for the affected parcels.”<sup>14</sup>
- Clarification that an application for merger may occur on parcels when performed in full compliance with all other permitting requirements, without the need for the prior issuance of a Certificate of Compliance.<sup>15</sup>
- Clarification that any parcel resulting from a merger, either voluntary or involuntary, shall, upon complete application, be issued a Certificate of Compliance (Type A or Type B) for the parcel as merged.<sup>16</sup>
- A requirement that “Development approvals or permits, such as a rezoning, design review, natural resource permit, PAD permit, Resource Management district permit, Timberland Preserve Zone permit, use permit, land clearing permit, grading permit, and building permit, require the issuance of a Certificate of Compliance confirming the parcel’s legal status, except as provided expressly below:
  - Lot Line-Adjusted Parcels
  - Parcels Depicted on Approved Subdivision Maps (approved and recorded by the County on or after July 20, 1945)
  - Proposed Subdivisions and Proposed Lot Line Adjustments”
- Clarification that if an owner applies for a single COC for the legalization of two or more adjoining parcels and title indicates they have never been separately conveyed, the parcels shall be considered merged upon approval of the Certificate of Compliance.

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<sup>13</sup> See [Board of Supervisors meeting item and attachments](#).

<sup>14</sup> See page 9.3 of the [County Subdivision Regulations](#).

<sup>15</sup> See page 11.7 of the [County Subdivision Regulations](#).

<sup>16</sup> See page 11.10 of the [County Subdivision Regulations](#).

- A requirement that a Certificate of Compliance (Type B) issued for a substandard size parcel, where a chain of title shows that the first separate conveyance of such a parcel would not have been allowed under the zoning district's current minimum lot size requirements, include a condition requiring said parcel to be merged with its parent parcel if under common ownership or, alternatively, a condition prohibiting new development on said parcel.

## LOT MERGERS AND COCs AFTER 2017 SUBDIVISION REGULATIONS UPDATE

As noted above, the number of legal substandard parcels on the Midcoast remains unknown, given that the process to establish legality is initiated by property owners. However, reviewing permit applications submitted after the adoption of the updated subdivision regulations illuminates trends in lot mergers and establishment of lot legality.

The following permit numbers come from applications opened between January 1, 2018 and June 30, 2021 for properties zoned R-1, R-3, or RM-CZ and located in Montara, Moss Beach, Princeton, El Granada, or Miramar.

Results:

- 17 COC Type As approved or recorded.
  - 7 of these COC Type As were for parcels with an estimated size under 4,500 sq. ft. in the R-1 and R-3 zones.
  - None were for parcels under 5,000 sq. ft. in RM-CZ.
  - 3 of these parcels under 4,500 sq. ft. had been contiguously-owned sometime from 2018-2021, although are not currently contiguously-owned.
- 14 COC Type Bs approved or recorded (All parcels were over 5,000 sq. ft.).
  - Several applications for COC Type B's were for multiple substandard parcels proposed to be legalized as a single larger parcel that met modern Subdivision Regulations standards.
  - No COC Type Bs were approved for substandard-sized lots during this time period. However, in the 3 ½ years prior to the Subdivision Regulations update (July 2014 through December 2018), 6 COC Type Bs were approved for substandard parcels zoned R-1, R-3, or RM-CZ and located in Montara, Moss Beach, Princeton, El Granada, or Miramar.
- 12 mergers in R-1 and R-3 zones, which resulted in the reduction of 16 lots, and 8 of these mergers involved parcels under 5,000 sq. ft.
  - In the in the 3 ½ years prior to the Subdivision Regulations update (July 2014 through December 2018), there were only 6 mergers resulting in the reduction

of 6 parcels zoned R-1, R-3, or RM-CZ and located in Montara, Moss Beach, Princeton, El Granada, or Miramar.

- 1 recorded subdivision that divided 1 parcel, creating 1 additional parcel.
- 4 approved or recorded lot line adjustments.

This analysis shows a high number of mergers, especially of small lots, relative to the small overall number of applications. Many of the COC applications represent a merger or previous combination of originally substandard parcels. Only a few substandard parcels that have been recently contiguously owned have received COC Type As in order to pursue development. Further, these numbers show a decrease in COC Type Bs recorded for substandard parcels and an increase in mergers after the update of the Subdivision Regulations when compared to before the update. This indicates that the 2017 Subdivision Regulations update is leading to more mergers of substandard parcels or COC Type Bs that combine substandard parcels to create one standard sized legal parcel.

## CONCLUSION

Overall, recent permit numbers show that the Witt and Abernathy decisions, the updated 2017 Subdivision Regulations, and the preferences of property owners are leading to the creation of legal parcels at or above today's minimum parcel size without the need for a mandatory lot merger program. Pursuing a mandatory lot merger program would require devoting significant staff time and resources to a process that is happening naturally over time. A mandatory lot merger program would also create a larger number of legal parcels in a shorter period of time when compared to the current pace of parcel legalization, which could then lead to a greater rate and amount of development. Due to these considerations, a mandatory lot merger program is not recommended. However, Connect the Coastside recommends that Planning Division staff continue the practice of reviewing development applications for opportunities to merge contiguously-owned parcels in accordance with County Subdivision Regulations, Chapter 9 – Parcel Mergers (Section 7116-7119 and 7123).

# 5. Transportation Performance Measures and Standards

## COMMON PERFORMANCE MEASURES

This section describes common ways to measure transportation system performance, including current methods and standards and Connect the Coastside’s proposed revisions. The performance standards are important because “what gets counted counts.” The performance standards show what is considered deficient now and what would be considered deficient in the future. They also influence where solutions are needed and what those solutions could be.

### LEVEL OF SERVICE

A common way to measure **roadway performance is to use level of service or “LOS”**. LOS generally describes operating conditions of a road from the perspective of the driver and is described in terms of speed and travel time, freedom to maneuver, traffic interruptions, and comfort and convenience.<sup>17</sup>

LOS looks at the level of congestion during a **peak travel period compared to free-flow conditions**. Peak periods are when highest number of people are often traveling the most, like the:

- weekday morning commute (7:00 – 9:00 am),
- weekday evening commute (4:00 – 6:00 pm), and the
- weekend recreational peak period (10:00 am – 2:00 pm),

LOS is measured in letter grades where “A” represents free-flow conditions and “F” represents extremely long delays. LOS can be applied to both intersections and roadway segments.

LOS definitions for **signalized and unsignalized intersections** are shown in Table 15.

Table 15: Intersection Level of Service Definitions

Level of Service	Signalized Intersection Average Delay (sec/veh)	Unsignalized Intersection Average Delay (sec/veh)	Description
<b>A</b>	≤ 10	≤ 10	Free flow/Insignificant Delay
<b>B</b>	> 10 and ≤ 20	> 10 and ≤ 15	Stable Operation/Minimal Delay
<b>C</b>	> 20 and ≤ 35	> 15 and ≤ 25	Stable Operation/Acceptable Delay
<b>D</b>	> 35 and ≤ 55	> 25 and ≤ 35	Approaching Unstable/Tolerable Delay
<b>E</b>	> 55 and ≤ 80	> 35 and ≤ 50	Unstable Operation/Significant Delay
<b>F</b>	> 80	> 50	Forced Flow/Excessive Delay

Source: Highway Capacity Manual, Transportation Research Board, 2000.

Notes: \*Worst Approach Delay (in seconds per vehicle) for Unsignalized Intersections

<sup>17</sup> Highway Capacity Manual, Transportation Research Board, 2000

**Roadway segment level of service** is based upon the peak traffic volume (v) relative to the capacity of the roadway or intersection (c). “Capacity” is the maximum traffic flow that a roadway can accommodate under normal conditions. Roadway segment level of service is expressed as a “v/c ratio” and the amount of capacity filled by traffic volumes determines the level of service.

$$\frac{\text{Peak Traffic Volume (v)}}{\text{Roadway Capacity (c)}} = \frac{v}{c} \text{ Ratio}$$

Roadway segment level of service thresholds are different depending on the roadway type:

- A two-lane highway is a roadway with one lane for use by traffic in each direction.<sup>18</sup>
- A multi-lane highway is one which has more than one lane in each direction.

On a **two-lane highway**, a driver must use the opposing lane of traffic to pass a slower vehicle. As traffic volumes increase, the ability to pass a slower car goes down and platoons of vehicles are formed, increasing the delay experienced by motorists. Therefore, for two-lane highways, the volume and capacity used to calculate the v/c ratio **combines both directions**: the capacity used in Connect the Coastside for two-lane roads is 2,800 vehicles per hour (1,400 vehicles per lane per hour in each direction).<sup>19</sup>

On a **multi-lane highway**, the roadway level of service criteria is for **each direction of travel separately**. The capacity used in Connect the Coastside for multilane highway segments is 2,200 vehicles per hour per lane and is evaluated per lane and per direction, so a four-lane highway has a 4,400 vehicle per hour total capacity in each direction. The specific roadway LOS criteria for two-lane and multi-lane highways are shown below in Table 16.

Table 16: Roadway Level of Service Definitions

Two-Lane Highways				Multi-Lane Highways		
Level of Service	% Time Delay	Max v/c ratio <sup>1</sup>	Average Travel Speed <sup>2</sup>	% Time Delay	Max v/c ratio <sup>3</sup>	Average Travel Speed <sup>2</sup>
<b>A</b>	30	0.00 – 0.04	54	30	0.00 – 0.30	50
<b>B</b>	45	0.04 – 0.16	51	45	0.30 – 0.50	50
<b>C</b>	60	0.16 – 0.32	48	60	0.50 – 0.70	50
<b>D</b>	75	0.32 – 0.57	46	75	0.70 – 0.84	49
<b>E</b>	>75	0.57 – 1.00	41	>75	0.84 – 1.00	47
<b>F</b>	100	> 1.00	< 41	100	> 1.00	< 47

Source: San Mateo County Congestion Management Program, 2011 with thresholds based on Highway Capacity Manual

Notes:

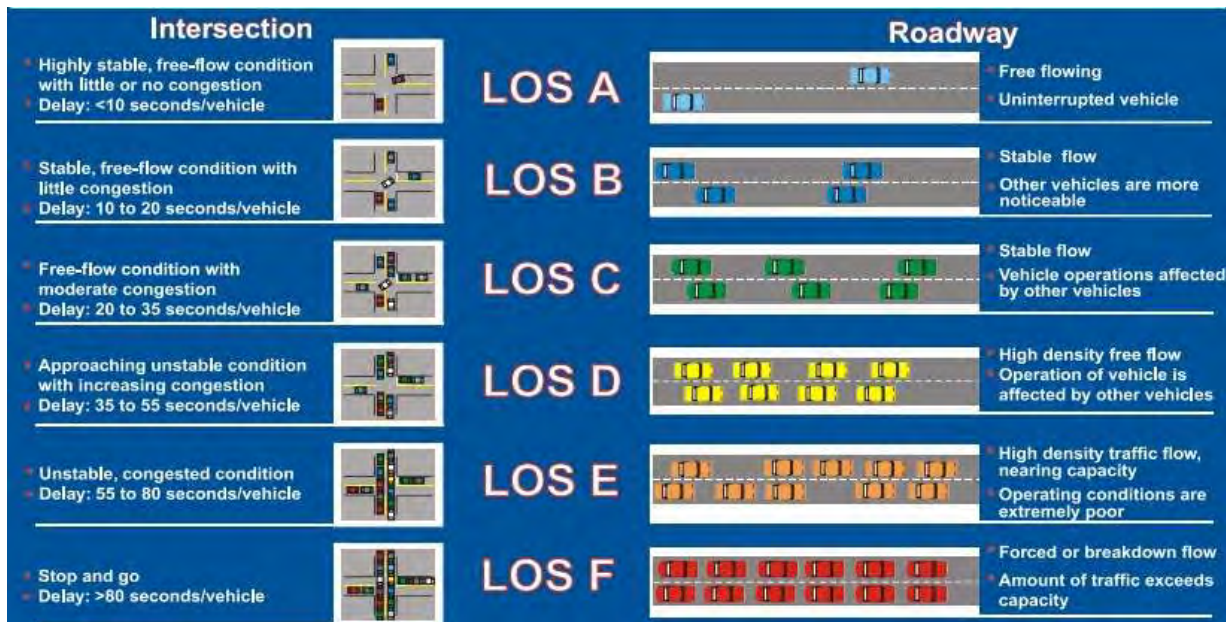
1. Ratio of flow rate to an ideal capacity of 2,800 passenger cars per hour in both directions.
2. Average travel speed of all vehicles for highways with design speed 60 mph; for highways with lower design speeds, reduce speed by 4 mph for each 10-mph reduction in design speed below 60 mph; assumes that speed is not restricted to lower values by regulation.
3. Ratio of flow rate to an ideal capacity of 2,200 passenger cars per hour per lane.

<sup>18</sup> Defined by the San Mateo County Congestion Management Program

<sup>19</sup> Defined volumes are from the 1994 Highway Capacity Manual

Below is an example of what level of service can look like for each letter.

Figure 3: Intersection and Roadway Level of Service Visualization



Graphic courtesy of: [https://policymanual.mdot.maryland.gov/mediawiki/index.php?title=File:LOS\\_Graphic.jpg](https://policymanual.mdot.maryland.gov/mediawiki/index.php?title=File:LOS_Graphic.jpg)

In order to **improve level of service, generally traffic volumes need to decrease, or roadway capacity needs to increase.** Increasing the capacity of a roadway usually means adding lanes to a road, removing obstacles to travel (like cars waiting to turn by adding turn lanes), changing signal timing so more cars can get through at a certain location, or improvements like lane widening to make it easier for cars to go faster.

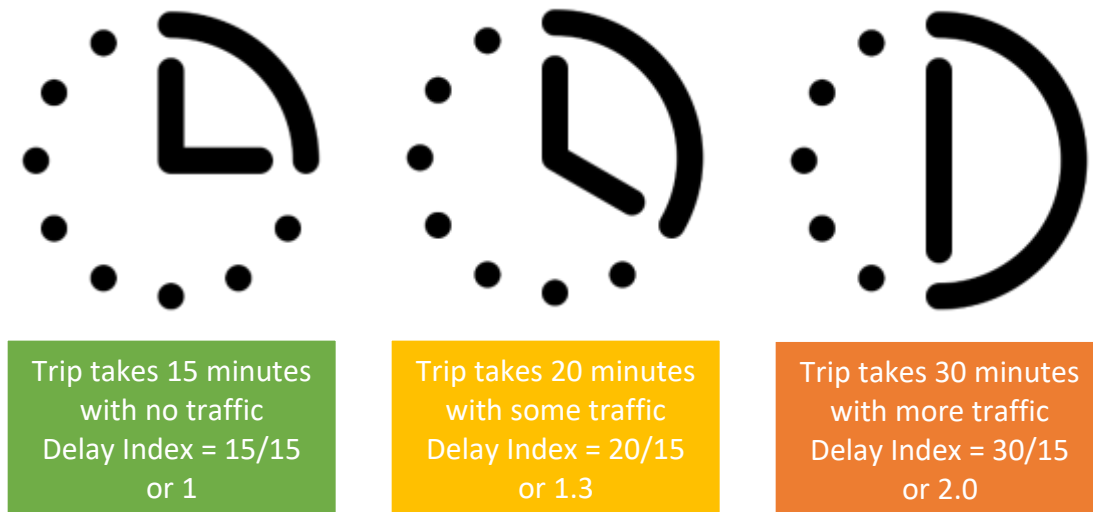
## DELAY INDEX

Level of service does not fully explain traffic operations, and improving LOS often results in projects out of step with other goals – like sustainability and minimizing impacts to the environment. Delays in travel can occur anytime there is a change in capacity; for example, a car having to wait to take a turn or a lane dropping. Another method to measure roadway performance from the perspective of the driver is to use a **delay index**, which is defined as the ratio of the peak period travel time on a corridor to the free-flow travel time.

$$\frac{\text{Peak Period Travel Time}}{\text{Free Flow Travel Time}} = \text{Delay Index Value}$$

A delay index focuses on travel times and the user experience for people driving, rather than capacity of a roadway. For example, the delay index value would be 2.0 if a trip takes 10 minutes during a morning commute time (peak period), instead of 5 minutes during the middle of the night (typically a free flow travel time). The graphic on the next page illustrates different delay index values for a trip.

Figure 4: Illustration of Delay Index



Clock faces created by Alexander Wiefel from Noun Project

Using a Delay Index allows for more flexibility and creativity in transportation solutions than level of service because it is not dictated by the roadway capacity.

## VEHICLE MILES TRAVELED

Vehicle miles traveled or VMT measures the amount of driving instead of the impact on drivers. One car traveling 10 miles would be 10 VMT, and four cars traveling 10 miles each would be 40 VMT. California Senate Bill 743 (SB 743) initiated an update to the California Environmental Quality Act (CEQA) Guidelines to change how agencies evaluate transportation impacts under CEQA. As of July 1, 2020, agencies analyzing the transportation impacts of new projects under CEQA must use vehicle miles traveled (VMT) instead of level of service (LOS) to determine the environmental impact of traffic changes resulting from projects. Measuring vehicle miles traveled better captures the collective impact of driving, such as greenhouse gas emissions, impacts to air quality, and access to goods and services, which are critical to addressing the State's goals related to climate change.

San Mateo County is working to develop and adopt its own VMT thresholds of significance (the level at which the impacts of a project are deemed significant under CEQA) and has produced interim guidelines.<sup>20</sup> Projects in Connect the Coastside would be subject to a VMT analysis during the implementation process. Transportation projects that make it easier to walk, bicycle, or take transit are typically found to have a beneficial impact on VMT, such that detailed VMT analysis may not be required.

<sup>20</sup> <https://publicworks.smcgov.org/documents/traffic-impact-analysis-requirements>



## OTHER

Level of service and the delay index do not directly address how well a road performs for non-vehicular modes of travel, such as those who are walking, bicycling, or taking public transit. Measuring vehicle miles traveled can indicate how well an area supports those who choose not to drive (for example, an area with low VMT typically means that there are other travel options available) but does not allow for a clear direction of how to improve conditions for those not driving. Agencies have taken different approaches to better understand conditions and performance for other modes. Examples include:

- 2010 Highway Capacity Manual Multimodal Level of Service – Method for evaluation multimodal level of service to estimate LOS for auto, bus, bicycle, and pedestrian level of service in urban contexts.
- Pedestrian Environmental Quality Index (PEQI)– First developed by the San Francisco Department of Public Health, the PEQI is an observational tool used to assess the quality of the physical pedestrian environment and provides a score. The PEQI considers things like sidewalk connectivity, lighting, shade, and areas to rest.
- Bicycle Environmental Quality Index (BEQI) – Similar to PEQI, the BEQI is an observational survey that looks at indicators of whether an area is supportive of bicycling, such as availability of a bikeway, pavement type, traffic volume, number of vehicle lanes, and others.
- Public Transit – Public transit operators use a variety of different metrics to measure system performance and make changes, including overall ridership, passengers per mile or hour, miles between accidents, and on-time performance.

None of these metrics have been incorporated into local regulatory frameworks to date.

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## CURRENT PERFORMANCE STANDARDS

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The following policy documents include performance standards that apply to roads in the San Mateo County Midcoast:

- San Mateo County Congestion Management Program<sup>21</sup>
- San Mateo County Traffic Impact Analysis Requirements<sup>22</sup>
- San Mateo County's Local Coastal Program<sup>23</sup>

### SAN MATEO COUNTY CONGESTION MANAGEMENT PROGRAM

The City/County Association of Governments (C/CAG) is the Congestion Management Agency for San Mateo County and is responsible for the countywide Congestion Management Program (CMP). The CMP includes strategies to respond to future transportation needs, including addressing congestion. CMP legislation requires the use of level of service (LOS) to measure roadway performance and sets standards for how well certain roadway segments (including highways) and intersections in San Mateo County must perform to avoid being considered deficient:

- Roadway segment – Deficient if below LOS E
- Intersection – Deficient if below LOS E

### SAN MATEO COUNTY TRAFFIC IMPACT ANALYSIS REQUIREMENTS

The County of San Mateo Department of Public Works requires analysis of the traffic and circulation impacts of proposed developments and defines the minimum acceptable design intersection level of service as LOS C, with no individual movement operating at less than LOS D. The requirements state that on occasion, LOS D may be allowed for peak periods.

In 2020, the County adopted interim criteria to determine transportation-related environmental impacts under the California Environmental Quality Act using vehicle miles traveled (VMT). Projects that exceed VMT thresholds based on their project type may have a significant impact that could require mitigation; the thresholds are:

- For residential – 13.60 home-based trip VMT per resident
- For office – 16.65 home-based work trip per VMT per worker
- Transportation projects must have a 0-net increase in total VMT

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<sup>21</sup> San Mateo County Congestion Management Program, 2019, San Mateo City/County Council of Governments (C/CAG) (<https://ccag.ca.gov/programs/transportation-programs/congestion-management/>)

<sup>22</sup> San Mateo County Traffic Impact Analysis Requirements, 2013 and 2020, County of San Mateo, Department of Public Works, Roadway Services (<https://publicworks.smcgov.org/documents/traffic-impact-analysis-requirements>)

<sup>23</sup> County of San Mateo Local Coastal Program Policies, 2013, County of San Mateo, Planning and Building Department

## SAN MATEO COUNTY LOCAL COASTAL PROGRAM

The County’s Local Coastal Program (LCP) Transportation policy 2.43 states that when considering roadway expansion, Roadway Level of Service “D” is acceptable for weekday peak periods, and Level of Service “E” is acceptable during weekend (recreational) peak periods.

### CURRENT PERFORMANCE STANDARDS SUMMARY

The roadway standards that apply to Midcoast roads are summarized in the table below. For the purposes of this Plan, Local Coastal Program (LCP) standards are used to evaluate highways in the Coastal Zone and San Mateo County standards for County-owned roads.

Table 17: Existing Midcoast Roadway Standards

Application	Performance Measure	Threshold for Deficiency on Weekday Peak	Threshold for Deficiency on Weekend Peak
<b>Signalized Intersection</b>	Level of Service	C (SMC) or D (LCP)	C (SMC) or D (LCP)
<b>Unsignalized Intersection</b>	Level of Service	C (SMC) or D (LCP)	C (SMC) or D (LCP)
<b>Roadway Segment</b>	Level of Service	D (LCP) or E (C/CAG)	E (LCP)

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# PROPOSED PERFORMANCE STANDARDS

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The current performance standards are aimed at improving conditions from the perspective of a driver. For example, improving level of service requires things that increase the capacity of the roadway and increase vehicle speeds -- things like widening roads to add travel lanes.

In the early stages of Connect the Coastside, the project team presented improvements aimed to address current performance standards (LOS). Suggested improvements included things like widening Highway 1, which would further impact the natural environment and take away space for other roadway users, including pedestrians and cyclists. These solutions were rejected by stakeholders because they did not align with the community’s vision and transportation goals. Therefore, the project team proposed updated performance standards designed to better describe the transportation system’s performance in the Midcoast.

Using different performance standards that better aligns with Midcoast stakeholder values allows for a more diverse set of transportation solutions. Alternative performance standards are described further below. Proposed performance standards would need to be incorporated into the Local Coastal Program and other County processes and standards to take effect.

## INTERSECTION PERFORMANCE STANDARD

Most intersections within the Study Area are unsignalized minor approach roads intersecting with Highways 1 and 92, and most are controlled by stop signs for minor approaches or are uncontrolled. Therefore, any deficiency or required mitigation due to intersection level of service should balance the need of the minor street traffic with the flow of traffic along the highways. To address this, the **proposed intersection standard** for the Midcoast requires **unsignalized intersections to meet a peak-hour signal warrant to be considered deficient**. This helps ensure that the volume of traffic using the minor approach is large enough to warrant additional intersection control and the associated disruption to traffic flow along Highway 1.

Example of a minor and stop-controlled intersection at Highway 1 and 8<sup>th</sup> Street in Montara; 8<sup>th</sup> street is the “minor and stop-



## ROADWAY PERFORMANCE STANDARD

There are no alternate routes to Highways 1 or 92 with comparable roadway capacity, so any deficiencies using roadway level of service as a standard would lead to highway widening. Highway widening is not consistent with the Midcoast vision, is largely infeasible due to environmental constraints, and is inconsistent with Local Coastal Program Policy 2.42(d), to “maintain Highway 1 as a scenic two-lane road outside the Urban Midcoast area as depicted on Land Use Plan Map 1.3,” where the extents of Map 1.3 are from 1st St in El Granada to the border of Half Moon Bay.

To avoid traffic mitigation that requires adding highway lanes, the **proposed roadway standard** for the Midcoast is the **delay index**. Using the delay index allows for a range of mitigation which can be focused on specific trouble spots and allow different thresholds for different types of corridors.

Connect the Coastside proposes the maximum acceptable Delay Index of 2.0 for the Highways 1 and 92 corridors in the Study Area during the peak periods (weekday AM and PM, and weekend midday). Under the delay index, a corridor that took 10 minutes to drive with no congestion would be deficient if it took over 20 minutes to drive during peak times. Connect the Coastside proposes that the Delay Index be increased to 3.0 for segments that have adjacent Class I bicycle facilities or Class II bicycle facilities along at least 80% of their length. The higher standard allows for increased delay to motorists but encourages improvements that provide mobility across multiple modes. This is in accordance with statewide and County General Plan policies that encourage provision of capacity for all modes of travel.

Table 18: Proposed Midcoast Roadway Performance Standards

Application	Performance Measure	Threshold for Deficiency
<b>Signalized Intersection</b>	Level of Service	LOS C with no individual movement operating at worse than LOS D <sup>1</sup>
<b>Unsignalized Intersection</b>	Level of Service	Same as signalized <u>and</u> must meet a peak-hour signal warrant <sup>2</sup>
<b>Roadway Segment that serves vehicles only</b>	Delay Index	Greater than 2.0 (Example: 10 minutes to drive with no congestion would be deficient if it took over 20 minutes to drive during peak commute times)
<b>Roadway segment with adjacent Class 1 or Class II Bikeway for at least 80% of length</b>	Delay Index	Greater than 3.0 (Example: 10 minutes to drive with no congestion would be deficient if it took over 30 minutes to drive during peak commute times)
<b>New land use or transportation projects</b>	Vehicle Miles Traveled	Final guidelines to be developed by San Mateo County in collaboration with C/CAG <sup>3</sup>

<sup>1</sup>As defined by the San Mateo County Traffic Impact Study Requirement and San Mateo County Local Coastal Program

<sup>2</sup>Signal warrant: <https://dot.ca.gov/programs/safety-programs/camutcd/traffic-manual-ch9>

<sup>3</sup>Interim guidelines for application are available at: <https://publicworks.smcgov.org/documents/traffic-impact-analysis-requirements>

## OTHER MODES

Data on other modes of travel is limited, making measurements both challenging to do and less useful in identifying deficiencies. In addition, to meet local and state goals related to advancing equity and addressing climate change, common sense improvements to increase access for walking, bicycling, and transit are critical. Connect the Coastside recommends using the following guidelines to identify improvements related to parking, walking, bicycling, and transit.

### *Parking*

The Midcoast is an important regional recreational destination and recreational parking can increase public access and help prevent overflow parking into residential areas. Connect the Coastside used weekend peak-period parking occupancy to assess parking need and aims that beach access points should have no more than 95% parking occupancy in the associated recreational parking facility during the recreational peak. Recreational destinations include Gray Whale Cove State Beach, Montara Beach, and Surfer's Beach.

### *Walking*

Providing safe and comfortable walking facilities and crossings can increase the overall number of people who choose to walk and create a more accessible community. Some areas will have lower demand for walking, such as roadways near vacant land. Other areas, such as commercial corridors and residential streets, could be accessed more frequently by people walking. Hotspots for pedestrian activity are key destinations such as beaches, commercial areas, viewpoints, and transit stops.

In general,

- Areas with low demand do not need large infrastructure improvements and could be addressed through trail connections and shared-use paths.
- Areas with pedestrian-oriented land uses (e.g., commercial strips) and hot spots (e.g., beach access point) need greater intersection and street segment improvements.
- Locations with medium to high pedestrian demand and at hot spots need safe pedestrian crossings that should be located no more than a half mile apart.
- As traffic volumes increase, the level of improvement needed to provide a safe crossing increases, from a simple marked crosswalk at the lowest traffic volumes, to a high visibility crosswalk with curb extensions and a pedestrian activated signal or beacon at locations with high traffic volumes.

### *Bicycling*

People of different ages and abilities prefer different types of bikeway facilities. A family with young children riding to school may only be comfortable on a bike path that is completely separated from vehicles, whereas an experienced cyclist commuting to work might prefer an on-street facility. In general, the greater the speeds and volumes of a roadway, the more important it is to provide a bikeway of high quality that is separated from roadway traffic. The National Association of City Transportation Officials (NACTO) recommends that bike lanes are most helpful on streets with posted speed limit greater than or equal to 25 mph, while on streets with higher speed limits of 35 mph or more, treatments that provide greater separation between bicycles and vehicular traffic should be considered, such as left-side bike lanes, buffered bike lanes and bike paths.<sup>24</sup>

Bicycle parking should be provided at all key destinations, including beach access points, parks, trailheads, schools and central business districts. The San Mateo County Zoning Regulations<sup>25</sup> states that “bicycle parking spaces shall be provided at a rate of one locker, rack, or other device to secure and park bicycles for ten vehicle spaces required, but in no case less than one bicycle parking space per parcel.” This regulation will help increase the amount of bicycle parking provided as a part of future development. The County’s LCP includes policies requiring bicycle parking in all Coastal Zone parking lots, including specific requirements for several coastal access points.

### *Transit*

In July 2019, SamTrans launched *Reimagine SamTrans*, which will study SamTrans services in-depth, including strengths, challenges, and community needs. Ultimately, the project will recommend a new Service Policy Framework, such as new or re-routed bus lines and goals for ridership and use that are tailored to the areas of lower-density development, such as the Midcoast. Since new performance standards will be established as part of Reimagine SamTrans and current transit ridership is low on the Midcoast, Connect the Coastside recommends a goal of increasing transit ridership to alleviate traffic congestion, reduce greenhouse gas emissions, and promote healthier communities. In order to do so, Connect the Coastside focuses on creating a more comfortable waiting experience and recommends that all bus stops have a paved waiting platform to support those with disabilities, and that all bus stops should have a bench, while heavily used bus stops in areas susceptible to inclement weather conditions should have a full shelter.

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<sup>24</sup> <https://nacto.org/publication/urban-bikeway-design-guide/bike-lanes/conventional-bike-lanes/>

<sup>25</sup> Zoning Regulations, Section 6254.4 (11), Planning and Building Department, County of San Mateo; [https://planning.smcgov.org/sites/planning.smcgov.org/files/SMC\\_Zoning\\_Regulations.pdf](https://planning.smcgov.org/sites/planning.smcgov.org/files/SMC_Zoning_Regulations.pdf)

# 6. Existing and Projected Transportation Conditions



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## BACKGROUND

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As described in the Existing and Projected Land Use Conditions chapter (page 39), Connect the Coastside aims to identify the land use policies and transportation improvements that can be implemented to mitigate the traffic impacts of future growth (per Local Coastal Program Policy 2.53).

In order to determine transportation impacts, first the project team evaluated **existing conditions** and collected data (like vehicle counts) to assess traffic conditions. The existing conditions analyses clarifies what is already a traffic problem or concern that might need to be addressed now, and that might be made worse in the future as the population and number of visitors to and within the Study Area grows.

In order to project future transportation impacts, the **maximum buildout forecast described in the land use chapter was inputted into a travel demand model**. In San Mateo County, C/CAG in partnership with the Valley Transportation Authority (VTA) is responsible for developing and maintaining the countywide travel demand model. The model is updated every 5 years and projects conditions 25 years into the future. Although the C/CAG-VTA transportation model does not include regional growth projections beyond 2040, and the maximum buildout forecast will not occur by then, the maximum buildout forecast was used to assess traffic impacts, consistent with the directives of LCP Policy 2.53.

The outputs of the travel demand model were further processed using additional transportation software to **identify the traffic impacts of the maximum buildout forecast scenario**. The project team could then compare existing conditions to projected future conditions to understand what type of transportation and land use solutions might be needed.

Based on the findings of the data analysis and community's vision of the future of transportation on the Midcoast, the project team **recommended different ways to measure transportation performance** (page 61) and then identified **solutions to address the impacts** (Chapter 7).

This section provides an overview of existing transportation conditions, existing performance, and the future transportation impacts associated with projected development. The processes summarized here are described in more detail in the "Evaluation of Recommended Alternative to Address Potential Future Transportation Deficiencies Report" (March 2016), "Development Forecast for the San Mateo County Comprehensive Transportation Management Plan Public Review Draft" (October 2015) and "Buildout Analysis and Traffic Projections Report" (September 2014).

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## EXISTING TRANSPORTATION CONDITIONS

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### DRIVING

As described in the introduction, driving is the primary mode of transportation in the Study Area. The main roadway corridors are:

- Cabrillo Highway (Highway 1), in the north-south direction and
- San Mateo Road (Highway 92) in the east-west direction.

Highways 1 and 92 are owned and managed by Caltrans and provide regional connections to San Francisco (north), San Mateo (east) and Santa Cruz (south). Highways 1 and 92 are largely one lane in each direction, with limited areas for passing, left-turn pockets for turning, and right-turn lanes. The remainder of the roadway network is comprised of two-lane County roads that range from arterials, such as Airport Street in Princeton-Moss Beach, to narrow rural roadways, such as Beach Way in Moss Beach. Many local roadways do not have center-lane striping or edge striping.

The roadway network serves to connect people and goods within the Midcoast and to the rest of the region, with Highways 1 and 92 operating at higher speeds, accommodating local and visitor traffic and trucks moving goods, and other roadways serving neighborhoods with typically lower speed traffic. The roadway network connects to nearly all Midcoast resources, including beaches, marine reserves, harbors, surf breaks, parks, businesses and other destinations. There are no existing formal bicycle or bus facilities as part of the roadway network, so both share roads with motorists.

Many Coastside residents feel that the traffic during peak hours and during nicer weather on weekends is challenging, and that conditions have gotten worse over time. The project team collected vehicle count data in 2014 on weekdays and weekends for Connect the Coastside to calculate existing performance standard deficiencies (Existing Transportation Performance Standard Deficiencies on page 81). Vehicle volumes at key locations along Highway 1 have not changed significantly when compared to 2017 and 2019 counts (see Appendix D).

Map 7: Roadway Network



- Highways
- Roads
- - - Half Moon Bay
- Study Area

## PARKING

Vehicular parking on the Midcoast ranges from on-street parking in neighborhoods, along Highway 1, with some off-street parking lots for recreational use, and some parking provided by local businesses that are open to public use (see Table 19: Study Area Parking Inventory on page 70).

The San Mateo County Coastside Access Study conducted a recreational parking inventory and use survey near park sites along the coast between Devil’s Slide (north) and El Granada (south). When designated lots fill to capacity, visitors often park on the roadside, which is legally permitted (as long as the vehicle is outside of the travel way). These vehicles were counted as “overflow” parking to the designated nearby parking area.

The study found an estimated 396 parking spaces in designated parking areas. During the data collection period, a total of 423 parked vehicles were observed in the designated and overflow parking areas – or a 107% occupancy rate. Out of all study locations, the highest overflow was observed at Montara State Beach and McNee Ranch (137%), while Quarry, Wicklow, and Mirada Surf saw the least occupancy rate at 26%. Stakeholders also noted the need for additional parking in Miramar, and specifically, on Magellan Avenue at the trailhead at Mirada Surf.

Many parking lots are not paved and lack striped spaces, leading to inefficient use. Some private parking lots are required to provide parking for public use, but do not necessarily have signs showing visitors that parking is available.

Table 19: Study Area Parking Inventory

Lot Name	Area	Spaces	Public / Private	Notes
<b>Devil's Slide Trail 1</b>	North of Montara	15	Public	Free
<b>Devil's Slide Trail 2</b>	North of Montara	9	Public	Free
<b>Gray Whale Cove State Beach</b>	North of Montara	72	Public	Free
<b>Gray Whale Cove Surplus</b>	North of Montara	35	Public	Free
<b>McNee Range State Park</b>	North of Montara	7	Public	Free
<b>Martini Creek</b>	North of Montara	42	Public	Free
<b>Montara State Beach</b>	North of Montara	8	Public	Free
<b>La Costanera</b>	North of Montara	40	Public / Private	Restaurant parking after 5 pm
<b>Point Montara Lighthouse Hostel</b>	Montara	25	Private	Hostel guests only
<b>Montara Water &amp; Sanitary District</b>	Montara	15	Private	MWSD only
<b>Fitzgerald Marine Reserve</b>	Moss Beach	40	Public	Free
<b>Church of Jesus Christ LDS</b>	Moss Beach	170	Private	Church only
<b>Moss Beach Distillery</b>	Moss Beach	43	Public / Private	Restaurant parking. 14 spaces public.
<b>Harbor Lot A</b>	Pillar Point and HAF Airport	322	Public	Free/Permit
<b>Harbor Lot B</b>	Pillar Point and HAF Airport	52	Public	Free
<b>Harbor Lot C</b>	Pillar Point and HAF Airport	147	Public	Permit
<b>Boat Launch and Trailer Lot</b>	Pillar Point and HAF Airport	135	Public	Fishermen only
<b>Harbor Commercial Fishermen Lot</b>	Pillar Point and HAF Airport	40	Public	Permit
<b>Pier</b>	Pillar Point and HAF Airport	20	Public	
<b>Launching Facility</b>	Pillar Point and HAF Airport	18	Public	
<b>Harbor Village Lot</b>	Pillar Point and HAF Airport	488	Public / Private	
<b>Pillar Point Inn</b>	Pillar Point and HAF Airport	12	Private	
<b>Barbara's Fish Trap</b>	Pillar Point and HAF Airport	37	Private	
<b>Half Moon Bay Brewing Company (SE)</b>	Pillar Point and HAF Airport	43	Private	
<b>Half Moon Bay Brewing Company (NW)</b>	Pillar Point and HAF Airport	50	Private	
<b>Half Moon Bay Yacht Club</b>	Pillar Point and HAF Airport	14	Private	Open to public when club is closed
<b>Nasturtium</b>	Pillar Point and HAF Airport	12	Private	
<b>American Legion</b>	Pillar Point and HAF Airport	27	Private	
<b>Mezza Luna</b>	Pillar Point and HAF Airport	37	Private	
<b>Pillar Point Recreation Area</b>	Pillar Point and HAF Airport	35	Public	
<b>Jean Lauer Trailhead</b>	Pillar Point and HAF Airport	10	Public	
<b>West Point Ave &amp; Stanford Lot</b>	Pillar Point and HAF Airport	20	Public	
<b>Scenic Overlook</b>	Highway 92	12	Public	
<b>Lower Crystal Springs Reservoir</b>	Route 35	18	Public	

Source: Appendix A of Connect the Coastside Buildout Analysis and Projections Final Report, November 20, 2014

## WALKING

### Network

There are many areas where people already walk. Stakeholders shared a desire to walk more to Midcoast destinations. Key destinations are largely spread along Highway 1 and are primarily near the coast. Destinations include beaches, trails, viewpoints and surfing areas, as well as businesses and services, such as the Post Office.

The pedestrian network generally consists of intermittent sidewalks along local roads, roadway shoulders, and trails, occasionally connected with a marked crosswalk. The pedestrian network is discontinuous: in some locations, sidewalks require maintenance, while in others sidewalk or trail facilities are absent altogether. In places without pedestrian facilities, pedestrians walk along paved or unpaved shoulders or in the roadway. Given the higher traffic speeds, coastal access, and the many community-serving destinations along Highway 1, the lack of pedestrian accommodation causes safety concerns and discourages people from walking. It also conflicts with the County's policy on Complete Streets and fails to comply with guidelines for paths of travel to key locations (including transit stops) per the Americans with Disabilities Act of 1990 (ADA).

Map 8: Highway 92 Key Pedestrian Destinations



## MIDCOAST MULTIMODAL PARALLEL TRAIL

The Parallel Trail was conceptualized in the Highway 1 Safety and Mobility Improvement Study (Phase 1) and is envisioned to be a bicycle and pedestrian path alongside Highway 1, spanning from Montara and connecting with the Naomi Patridge Trail in Half Moon Bay. The Parallel Trail will allow Midcoast residents and visitors of all ages and abilities to access neighboring communities, town centers, schools and recreational destinations on foot or bike.

The first section of the Parallel Trail, from Mirada Road north to Coronado Street, has been funded and implementation should begin in 2021. The Trail would be easily accessed by residents living on the east side of Highway 1, require no highway crossings and act as a Safe Route to School for children at El Granada Elementary School. By providing residents the opportunity to walk and bicycle, congestion on the highway should improve.

To learn more, visit the County's website or see more documents associated with County PLN 2015-00325.

Map 9: Highway 1 Key Destinations and Pedestrian Demand



## RIDGE TRAIL

The Southern Skyline Boulevard Ridge Trail Extension Project led by the San Francisco Public Utilities Commission will extend the Ridge Trail south from SR-92 alongside Skyline Boulevard to Henrik Ibsen Road. The trail would help extend the Bay Area Ridge Trail, which would provide 100 miles of continuous trail from Marin County to southern San Mateo County.

Currently, there are limited and discontinuous shoulders and no pedestrian facilities (sidewalks and crosswalks) or bikeways on Highways 92 and 35. To fully connect the trail, a safe crossing of Highway 92 is needed.

### *Crossings*

There are three marked pedestrian crossings within the Study Area at signalized intersections of Highway 1 and local streets: Coronado Street, Capistrano Road (S), and just south of the Tom Lantos Tunnel to access the Devil's Slide Trail. There is an uncontrolled pedestrian crossing at Virginia Avenue in Moss Beach. Existing crossings at signalized intersections are just two parallel transverse lines, a design that has been shown to have lower visibility for drivers than alternatives, such as continental crosswalks (also known as zebra striping). There are no marked or controlled (e.g., at a stop sign or signal) crossings of Highway 1 in the communities of Miramar and Montara. The existing crossings are located near areas of dense residential and commercial land use and are notably missing from most recreational access points, such as trailhead parking lots and designated vista points. Caltrans has posted pedestrian crossing signs in a few of these high activity locations along Highway 1 throughout the Midcoast, but with no pavement markings.

Every intersection is considered a legal crossing for pedestrians, even if unmarked (e.g., no crosswalk). Visitors to coastal beaches who park east of Highway 1, including on the eastern shoulder, must cross Highway 1 without marked crossings or sidewalks with little or no signage to alert drivers of people crossing. Similarly, on Highway 92, during seasonal spikes in commercial activity, many people cross the highway to access businesses and activities with no marked crossings. Despite these unsafe conditions and high weekend traffic volumes, many people walk to and cross Highways 1 and 92, and several collisions have occurred as a result<sup>26</sup>.

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<sup>26</sup> From 1/1/14 to 12/31/18, there were 4 pedestrian-involved collisions and 7 bicycle-involved collisions on Highways 1 and 92. Of the 4 pedestrian-involved collisions, 3 were crossing in a legal crosswalk at an intersection and 1 was crossing not in a crosswalk. Data from SWITRS GIS Map, Transportation Injury Mapping System (TIMS), Safe Transportation Research and Education Center, University of California, Berkeley. 2021. <https://tims.berkeley.edu/>



Parking lot with no marked crossing of Highway 1 to reach Gray Whale Cove







Marked pedestrian crossing of Highway 1 at Virginia Avenue



## BICYCLING

The Caltrans Highway Design Manual categorizes bicycle facilities into four classes:

	<b>Class I: Multi-use, paved paths</b> that are separated from vehicular traffic and enable two-way travel for bicyclists and pedestrians
	<b>Class II: On-street striped bike lanes</b> , with or without painted buffer
	<b>Class III: Shared right-of-way</b> for bicyclists and motorists often with “sharrow” symbols on the pavement to indicate that the roadway is to be shared with bicyclists
	<b>Class IV: Separated bike lanes or cycle-track</b> , with a physical separation between vehicle traffic and bikeway

Icons courtesy of The Noun Project. Class I icon “Bike and Pedestrian Path” created by Bence Bezeregy from Noun Project. <https://thenounproject.com/>

There are few dedicated bicycle facilities with some local roads signed as Class III Bike Routes without sharrows. Some bicyclists use Highway 1 as an intercommunity route along the coast since it is the only direct and continuous north-south connection. Highway 1 has paved shoulders (typically 8-foot wide) in some areas, but no defined bikeway. There are safety concerns for bicyclists along Highway 1 due to high vehicle speeds and parked cars often blocking the shoulder. Intersections along Highway 1 typically have wide cross-sections and large corner radii that are designed for fast-moving vehicles and turns, and generally make conditions more inaccessible and uncomfortable for both bicyclists and pedestrians. Some avid cyclists use Highway 92 as one of a handful of potential coastal access routes between eastern and western San Mateo County. Highway 92 has paved shoulders in some areas, but these are narrow or disappear along significant segments of the route, and the roadway has portions of steep grades, some with high-speed traffic.

There is also a lack of bicycle parking at recreational and other destinations within the Study Area. Some public short-term bicycle parking is available at Pillar Point Harbor, Sam’s Chowder House, and at a few of the County parks.

The lack of bicycle facilities along key routes, through intersections, and availability of bicycle parking, conflicts with the County’s Complete Streets Policy and exacerbates vehicle congestion, especially during commute hours and peak summer tourist times. People on the Midcoast have few safe options to get around other than by car.

## TRAILS AND COASTAL ACCESS

The Midcoast has an extensive trail network and recreational areas, making it an important regional and local destination. Coastside recreational areas include several parks, beaches, scenic viewpoints, tidepools and other attractions along the coastline. The California Coastal Trail (CCT) a scenic, recreational public trail system envisioned to be continuous along the California coast is a popular resource. The CCT is intended to primarily serve people walking, but also accommodates other users, including cyclists, wheelchair users, and equestrians on some trail segments. Existing portions of the CCT run in a north-south direction west of Highway 1 north of Montara, in Princeton, Moss Beach and Miramar. Existing portions of the CCT range from Class I facilities to unclassified dirt paths in various sections along the coastline. The trail is currently paved and separated from the highway between the City of Half Moon Bay and Pillar Point Harbor, transitioning to an on-street route through Princeton, to a multi-purpose dirt path along the Pillar Point bluffs to Seal Cove in Moss Beach.

Trails can and do serve as transportation facilities, especially because the roadway network does not support people walking or bicycling as well as it could. When recreational destinations are accessed by foot, pedestrians often walk directly there via local streets, parking lots, or, at times, privately-owned property (for example, where owners allow users to access public beaches).

Pillar Point Bluff



## TRANSIT

### *San Mateo County Transit District Services*

Existing transit service is provided by the San Mateo County Transit District, which operates SamTrans, the regional bus service; and RediCoast, a paratransit service. Fixed route transit services follow a specific route, timetable, and pick up at pre-designated stops. Dial-a-ride are demand-responsive services, where transit services are available to pick-up at specific locations and times under certain conditions of eligibility.

While providing mobility options for some travelers, transit does not function as a primary mode of transportation for most discretionary transit riders because of its limited coverage and long headways (time between buses). Transit service has continued to change due to the COVID-19 pandemic, as transit agencies face reduced ridership and additional protocols to ensure passenger safety. Some services, like the City of Pacifica’s Devil’s Slide Ride shuttle, all school-day only routes (e.g., Route 18), and Route 118 have been temporarily suspended.

*Table 20: Transit Services Serving the Study Area*

Route	Description	Peak Headway (min)	Off Peak Headway (min)	Span of Service (weekdays listed first)
SamTrans 17 (fixed route)	Linda Mar Park & Ride (Pacifica) – Pescadero	30	60 (weekdays) 120 (weekends)	5:30 AM – 9:30 PM
SamTrans 18 (fixed route)	Montara – Half Moon Bay	30	N/A	7:00 AM – 9:20 AM 3:15 PM – 4:20 PM
SamTrans 110 (fixed route)	Linda Mar Park & Ride – Daly City BART	60	60	5:45 AM – 11:00 PM 6:30 AM – 9:00 PM
SamTrans 112 (fixed route)	Linda Mar Park & Ride – Colma BART	60	60	6:00 AM – 9:45 PM 8:00 AM – 8:45 PM
SamTrans 294 (fixed route)	Pacifica – Miramontes Point	60	120	5:30 AM – 9:00 PM
SamTrans FLX Pacifica (on demand)	Linda Mar and Southern Pacifica	45	N/A	6:15 AM – 6:50 PM
RediCoast (on demand)	Devil’s Slide - Santa Cruz County			6:30 AM – 8:00 PM 8:00 AM – 5:00 PM

**SamTrans Route 17** is the primary transit service serving the Midcoast. It runs weekday service connecting Pacifica (just north of the Study Area) to Montara, Moss Beach, El Granada, Half Moon Bay, and Pescadero. Weekend service ends at Miramontes Point, before reaching Pescadero. Route 17 operates along Cypress Avenue, Airport Street, and Capistrano Road.

**SamTrans Route 18** is a school day only bus that runs service connecting Montara, Moss Beach, El Granada, and Half Moon Bay. Route 18 operates along 6th Street/Harte Street, Sunshine Valley Road, Etheldore Street, Cypress Avenue, Airport Street, Capistrano Road, Ave Alhambra, and Highway 1 in the Study Area, operating school days between 7:00 AM and 9:20 AM and between 3:15 PM and 4:20 PM. This line runs four buses in the AM and two buses in the PM.

**SamTrans Route 294** is a regional express bus that operates along Highway 92, connecting Half Moon Bay to the Hillsdale Caltrain station in San Mateo. This line operates all days of the week and is an important regional link and could serve as a connection for visitors to the coast.

**SamTrans Routes 110 and 112** connect from the Linda Mar Park and Ride to BART stations. This requires a transfer for Midcoast residents from Route 17 to the Linda Mar Park and Ride to these routes.

**SamTrans FLX Pacifica** service offers a mix of fixed and flexible routing in the Linda Mar neighborhood of Pacifica. The shuttle travels clockwise serving bus stops from the Linda Mar Park & Ride along Highway 1 to Crespi Drive, Fassler Avenue, Terra Nova Boulevard, Oddstad Boulevard and back to Linda Mar Park & Ride. Shopping centers, parks, community centers, libraries, schools and other key destinations can be accessed riding the FLX. FLX picks up riders directly for their homes or other locations within one-half mile of the service route.

**SamTrans OnDemand** was a pilot microtransit service that launched on May 6, 2019 and served a five square-mile area around the Linda Mar community in Pacifica. It replaced the FLX Pacifica shuttle through May 2020. Trips were requested via smartphone application, enabling real-time dispatching and routing of vehicles to pickup and drop-off locations. The SamTrans customer service center is also equipped to process trip requests over the phone. Service was available between 6:15 AM and 6:30 PM. OnDemand ultimately served fewer overall passengers, operated more vehicle revenue miles, garnered more customer complaints and required higher operating costs. The pilot analysis determined that OnDemand was not as effective for school service or first/last mile trips.

**RediCoast** is a paratransit service that provides curb-to-curb transportation for disabled citizens living between Devil's Slide to the north and the border of Santa Cruz County to the south. Travel outside of these areas is possible by pre-arranging with other paratransit providers (e.g. Redi-Wheels for eastern San Mateo County, Outreach for Santa Clara County, etc.). Citizens qualify for RediCoast services under certain accessibility conditions.



Route 17 bus stop at California Avenue and Etheldore Street in Moss Beach

### *Transit Stop Amenities*

Most bus stops are identified by a pole with sign in the Study Area. Some are lacking ADA accessible boarding platforms, and very few have benches or shelters.

### *SamTrans Ridership Trends*

In 2018, SamTrans completed the Coastside Transit Study,<sup>27</sup> which studied bus service on the coastside, recommended new ways to serve residents, and identified future avenues of study. The study reported that 96-99% of Midcoast households own cars, indicating there is a very low “transit-dependent” population and thus a lower propensity to ride transit. The Study found that ridership declined on all coastside routes in 2017 compared to 2016. Route 17 had the largest drop in ridership with a 28 percent drop in the ridership per service hour. Route 294 was the least productive at 7.1 riders per service hour, followed closely by the FLX Pacifica route at 8 passengers per service hour. Route 110 is among the most productive in terms of ridership per service hour at 27 riders per service hour.

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<sup>27</sup> SamTrans Coastside Access Study webpage. Available at: [https://www.samtrans.com/Planning/Planning\\_and\\_Research/Coastside\\_Transit\\_Study.html](https://www.samtrans.com/Planning/Planning_and_Research/Coastside_Transit_Study.html) (Accessed 12/1/20)

### *Cabrillo Unified School District Student Transportation*

At one point, the Cabrillo Unified School District provided school bus service for students traveling to Farallone View Elementary School; the District currently and will continue to provide transportation services to students with special needs. Providing dedicated bus service is costly to the District, especially with budget cuts and adapting to distance learning during the COVID-19 pandemic. The District anticipates reduced demand for transit services as it recently changed its approach to school choice, allowing more residents to attend the school closer to their home and student enrollment is projected to decrease by 347 students<sup>28</sup> over the next five years.

### *Discussion*

Currently, none of the fixed route transit routes have enough ridership to meet SamTrans minimum ridership goals, nor for provision of amenities at stops.<sup>29</sup> Midcoast stakeholders indicated that frequent and direct access to BART stations was the highest transit service priority while some requested mid-day and weekend service to reach other activities. Others requested coordination between SamTrans and Cabrillo Unified School District to ensure transit serves student needs, including to reach after-school activities, and is safe for students with additional staff or chaperone support. Additional transit service (particularly for major visitor events), improved stop access, enhanced bus stop amenities, and targeted marketing could serve to increase transit ridership within the area. Every transit stop could be viewed as an opportunity to provide an enhanced and effective pedestrian crossing, since transit users typically need to cross the street at either the beginning or the end of their trips.

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<sup>28</sup> Projected enrollments 2020 to 2025, November 12, 2020 Cabrillo Unified School District Board Presentation by Thomas Williams of Enrollment Projection Consultants

<sup>29</sup> SamTrans 2016 Title VI Program, p.G10 (p.95 of 270). Criteria is stops with more than 200 passengers boarding per day for shelters and benches.

(<https://www.samtrans.com/Assets/TitleVI/SamTrans+2016+Title+VI+Program+Complete.pdf>)

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## EXISTING TRANSPORTATION PERFORMANCE STANDARD DEFICIENCIES

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To identify potential improvements, the project team first assessed existing conditions based on the current and recommended performance standards (see Chapter 5 for definitions). This section describes the findings of this analysis and existing deficiencies.

### INTERSECTION LEVEL OF SERVICE

Data, including vehicle volumes and turning movements to calculate existing conditions level of service (LOS) was collected for 23 intersections along Highways 1 and 92 in 2014. The intersection LOS analysis was conducted using the criteria discussed in the Current Performance Standards section on page 59.

Table 21 includes the following information by peak period:

- Intersection location
- Control type – Describes the type of control at each intersection, including two-way stop control on the minor street (TWSC) or signalized
- Delay – Is the additional travel time experienced by a driver that is attributable to the presence of a traffic signal and/or conflicting traffic.
- Level of service
- Warrant analysis – Whether the intersection meets conditions necessary for a peak-hour signal warrant, per the California Manual of Uniform Traffic Control Devices

All signalized intersections within the Midcoast region operate above LOS C; however, several unsignalized intersections along Highway 1 have minor street approaches that operate below LOS D during weekday peak periods or below LOS E during weekend peak periods, per the existing performance standards. These are denoted in red in the table.

All intersections that operate below the existing performance standard are minor-street, stop-controlled and only have one lane of approach. None of the intersections operating below the existing performance standard meet a peak-hour signal warrant. Only Cypress Avenue has more than 50 vehicles per hour on an approach turning onto Highway 1. The County's Draft Intersection Control Evaluation analysis found that Cypress Avenue and Highway 1 meets the 8-hour vehicular volume warrant (Warrant 1) and 4-hour vehicular volume warrant (Warrant 2).<sup>30</sup>

Highway 92 and Skyline Boulevard (west) does not meet the existing performance standard for intersection LOS during any period; Skyline Boulevard has a channelized-yield right turn onto Highway 92 and less than 50 vehicles turning left onto Highway 92. Neither Skyline Boulevard nor Muddy Road/Ox Mountain Landfill Road meet signal warrants so are not considered deficient under the proposed performance standard for intersection LOS.

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<sup>30</sup> Warrant definitions in the Manual of Uniform Traffic Control Devices (<https://mutcd.fhwa.dot.gov/htm/2009/part4/part4c.htm>)



Table 21: Existing Conditions Intersection Level of Service

Street Names	Control Type	AM Peak Hour			PM Peak Hour			Weekend (Midday) Peak Hour		
		Delay <sup>1</sup>	LOS <sup>4</sup>	Meets Peak Hour Warrant <sup>2</sup>	Delay <sup>1</sup>	LOS <sup>4</sup>	Meets Peak Hour Warrant <sup>2</sup>	Delay <sup>1</sup>	LOS <sup>4</sup>	Meets Peak Hour Warrant <sup>2</sup>
<b>HIGHWAY 1</b>										
SR-1 / 2nd St	TWSC	16.1 (WB)	C	N	15.7 (WB)	C	N	22.4 (WB)	C	N
SR-1 / 7th St	TWSC	12.6 (EB)	B	N	13 (EB)	B	N	14.8 (EB)	B	N
SR-1 / 8th St	TWSC	18.7 (WB)	C	N	32.5 (WB)	D	N	45.3 (WB)	E	N
SR-1 / 16th St	TWSC	31.6 (EB)	C	N	39.5 (EB)	E	N	42.6 (WB)	E	N
SR -1 / Carlos St	TWSC	12.3 (WB)	B	N	12.1 (WB)	B	N	12.7 (WB)	B	N
SR-1 / Vallemar St	TWSC	17.6 (EB)	C	N	24.5 (WB)	C	N	21.8 (WB)	C	N
SR-1 / California Ave	TWSC	25.6 (WB)	D	N	44.4 (WB)	E	N	53.7 (WB)	F	N
SR-1 / Virginia Ave	TWSC	22.6 (WB)	C	N	38.5 (WB)	E	N	57.1 (WB)	F	N
SR-1 / Vermont Ave (WB)	TWSC	27.5 (WB)	D	N	45 (WB)	E	N	50.1 (EB)	F	N
SR-1 / Cypress Ave (EB) <sup>3</sup>	TWSC	44.2 (EB)	E	N	104.6 (WB)	F	N	146 (EB)	F	N
SR-1 / St Etheldore St	TWSC	23.2 (WB)	C	N	34.1 (WB)	D	N	37.1 (WB)	E	N
SR-1 / Capistrano Rd (North)	TWSC	17.4 (EB)	C	N	22.1 (EB)	C	N	30.6 (EB)	D	N
SR-1 / Coral Reef Ave	TWSC	16.3 (WB)	C	N	24.5 (WB)	C	N	28.7 (WB)	D	N
SR-1 / Capistrano Rd (South)	Signalized	19.1	B	N/A	17.5	B	N/A	20.7	C	N/A
SR-1 / Coronado St	Signalized	21.7	C	N/A	14.4	B	N/A	11.4	B	N/A
Obispo Rd / Coronado St	TWSC	12.9 (EB)	B	N	10.2 (WB)	B	N	12.3 (WB)	B	N
SR-1 / Magellan Ave	TWSC	53.5 (EB)	F	N	78.5 (EB)	F	N	102.2 (EB)	F	N
SR-1 / Medio Ave	TWSC	104.5 (WB)	F	N	73.9 (WB)	F	N	254.8 (WB)	F	N
SR-1 / Miramar Dr	TWSC	21.3 (EB)	C	N	91.7 (EB)	F	N	46.9 (EB)	E	N
SR-1 / Mirada Rd	TWSC	126.2 (WB)	F	N	112.7 (WB)	F	N	282.3 (WB)	F	N
<b>HIGHWAY 92</b>										
SR-92 / Muddy Rd (Ox Mt Landfill)	TWSC	64.7 (SB)	F	N	92.6 (SB)	F	N	33.5 (SB)	D	N
SR-92 / Skyline Blvd (West, Upper)	TWSC	35.5 (NB)	E	N	72.9 (NB)	F	N	626.9 (NB)	F	N
SR-92 / SR-35 (East, Lower)	Signalized	11.7	B	N/A	22.0	C	N/A	41.9	D	N/A

Notes:

<sup>1</sup>Signalized intersections and all-way stop controlled (AWSC) intersections are reported by the average delay and LOS for the intersection; two-way stop controlled (TWSC) intersections are reported with the worst approach's delay and LOS

<sup>2</sup>Section 4C.04 of the CA-MUTCD describes the conditions necessary to meet a peak hour signal warrant (<https://dot.ca.gov/-/media/dot-media/programs/safety-programs/documents/ca-mutcd/rev-5/camutcd2014-part4-rev5.pdf>)

<sup>3</sup>DKS prepared a Draft Intersection Control Evaluation memorandum for the intersection of Cypress Avenue and Highway 1. The intersection was found to meet signal warrants 1 and 2 based on data collection completed in 2019.

<sup>4</sup>Unsignalized intersections that have minor street approaches that operate below LOS D during weekday peak periods or below LOS E during weekend peak periods, per the existing performance standards, are denoted in red in the table.

## ROADWAY LEVEL OF SERVICE

As described on page 54, roadway level of service (LOS) is based on the volume (v) and capacity (c) of the roadway segment, where capacity is defined by the number of lanes per direction and the volume is measured. The v/c is then calculated and compared to the threshold range described in the City/County Association of Governments (C/CAG) Congestion Management Program; the existing LOS thresholds are in Table 16 on page 55; roadway LOS D is acceptable for peak weekday periods and LOS E is acceptable for weekend periods.

Deficient roadway segments according to the existing performance standards are highlighted in red in Table 22. All roadway segments are considered sufficient along Highway 1 except for Coronado Street to Medio Avenue, Medio Avenue to Miramar Drive, and Miramar Drive and Mirada Road during the weekday peak periods. On Highway 92, the segments between R Rd and Muddy Road, and Muddy Road and Skyline Blvd are considered deficient during the weekday peak periods.

The City of Half Moon Bay's Local Coastal Land Use Plan's Table B-10 includes Highways 1 and 92 roadway level of service for 2018 on page B-9: roadway LOS is F for Highway 1 north of Highway 92, D for Highway 1 south of Highway 92, and E for Highway 92 for the AM, PM, and weekend peak periods.<sup>31</sup>

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<sup>31</sup> City of Half Moon Bay Local Coastal Land Use Plan, Updated 2020. <https://www.half-moon-bay.ca.us/154/Local-Coastal-Program-Land-Use-Plan>

Table 22: Existing Conditions Roadway Segment Level of Service

Location	Class	Capacity	AM			PM			Weekend (Midday)		
			Volume (veh/hr)	v/c	LOS <sup>1</sup>	Volume (veh/hr)	v/c	LOS <sup>1</sup>	Volume (veh/hr)	v/c	LOS <sup>1</sup>
<b>Highway 1</b>											
1st St and 2nd St	Two-Lane Highway	2,800	963	0.34	D	1,401	0.50	D	1,426	0.51	D
2nd St and 7th St	Two-Lane Highway	2,800	965	0.34	D	1,357	0.48	D	1,395	0.50	D
7th St and 9th St	Two-Lane Highway	2,800	930	0.33	D	1,227	0.44	D	1,424	0.51	D
9th St and Carlos St	Two-Lane Highway	2,800	893	0.32	C	1,237	0.44	D	1,512	0.54	D
Carlos St and Vallemar St	Two-Lane Highway	2,800	1,058	0.38	D	1,298	0.46	D	1,496	0.53	D
Vallemar St and California St	Two-Lane Highway	2,800	1,018	0.36	D	1,247	0.45	D	1,454	0.52	D
California St and Vermont St	Two-Lane Highway	2,800	1,205	0.43	D	1,355	0.48	D	1,518	0.54	D
Vermont St and Cypress Ave	Two-Lane Highway	2,800	1,182	0.42	D	1,394	0.50	D	1,540	0.55	D
Cypress Ave and Etheldore St	Two-Lane Highway	2,800	1,123	0.40	D	1,356	0.48	D	1,544	0.55	D
Etheldore St and Capistrano Rd N	Two-Lane Highway	2,800	1,181	0.42	D	1,414	0.51	D	1,547	0.55	D
Capistrano Rd N and Coral Reef Ave	Two-Lane Highway	2,800	1,201	0.43	D	1,408	0.50	D	1,607	0.57	E
Coral Reef Ave and Capistrano Rd S	Two-Lane Highway	2,800	1,115	0.40	D	1,294	0.46	D	1,502	0.54	D
Capistrano Rd S and Coronado St	Two-Lane Highway	2,800	1,132	0.40	D	1,442	0.52	D	1,250	0.45	D
Coronado St and Medio Ave	Two-Lane Highway	2,800	1,662	0.59	E	1,947	0.70	E	2,017	0.72	E
Medio Ave and Miramar Dr	Two-Lane Highway	2,800	1,682	0.60	E	1,961	0.70	E	2,112	0.75	E
Miramar Dr and Mirada Rd	Two-Lane Highway	2,800	1,650	0.59	E	1,932	0.69	E	2,205	0.79	E
<b>Highway 92</b>											
R Rd and Muddy Road	Two-Lane Highway	2,800	1,670	0.60	E	1,873	0.67	E	1,689	0.60	E
Muddy Road and Skyline Blvd	Two-Lane Highway	2,800	1,663	0.59	E	1,890	0.68	E	1,553	0.55	D
Skyline Blvd and SR 35	Two-Lane Highway	2,800	1,259	0.45	D	1,220	0.44	D	1,258	0.45	D
SR 35 and I-280	Two-Lane Highway	2,800	1,495	0.53	D	1,705	0.61	E	1,859	0.66	E

<sup>1</sup>Roadway segments that are deficient according to current roadway level of service (LOS) standards are highlighted in red

## DELAY INDEX

Connect the Coastside proposes using the Delay Index to measure roadway segment performance (see page 61). A Delay Index was calculated for Highway 1 corridor from 1<sup>st</sup> Street in Montara to Mirada Road in Miramar, and for Highway 92 from west of Ox Mt Landfill Road, near the City of Half Moon Bay border, to east of Highway 92 and Highway 35 (Lower) intersection.

Most Highway 1 intersections are uncontrolled, resulting in low off-peak free-flow travel times. Although certain segments have slower traffic during peak hours, the entire corridor is evaluated as one segment to calculate the Delay Index and determine impacts. Under existing conditions, both directions of travel along Highway 1 show a Delay Index below the proposed performance standard of 2.0 for all time periods. While discrete segments along Highway 1 are not held to any defined standard, it can be noted that none of them currently exceed the standard. For Highway 92, the entire segment in the Study Area is below the standard of 2.0 during all periods. The City of Half Moon Bay's Local Coastal Land Use Plan's Table B-10 includes Highways 1 and 92 delay index values for 2018 on page B-9.<sup>32</sup> For the weekday AM period, the delay index is 3.1 for Highway 1 north of Highway 92, 1.01 for Highway 1 south of Highway 92, and 1.3 for Highway 92. For the Weekday PM period, the delay index is 2.9 for Highway 1 north of Highway 92, 1.01 for Highway 1 south of Highway 92, and 1.8 for Highway 92.

Findings for the Midcoast reflect that most of delay occurs at intersections, which have a separate (LOS) evaluation metric and standard. Measures to reduce delay for the highways are therefore most effective at the corridor level. Delay Index values and travel times are provided below.

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<sup>32</sup> City of Half Moon Bay Local Coastal Land Use Plan, Updated 2020. <https://www.half-moon-bay.ca.us/154/Local-Coastal-Program-Land-Use-Plan>

Table 23: Existing Conditions Delay Index for Highway 1

	<b>FREE FLOW~</b>	<b>AM</b>		<b>Midday (Weekend)</b>		<b>PM</b>	
	<i>Travel Time</i>	<i>Travel Time</i>	<i>Delay Index</i>	<i>Travel Time</i>	<i>Delay Index</i>	<i>Travel Time</i>	<i>Delay Index</i>
<b>Highway 1 - Southbound</b>							
1st Street to 16th Street	01:00	00:29	0.49	00:33	0.55	00:32	0.53
16th Street to Capistrano (North)	02:59	03:40	1.23	03:56	1.32	03:50	1.28
Capistrano (North) to Mirada Road	02:29	03:10	1.27	03:21	1.35	03:16	1.31
<b>Total</b>	<b>06:28</b>	<b>07:19</b>	<b>1.13</b>	<b>07:50</b>	<b>1.21</b>	<b>07:37</b>	<b>1.18</b>
<b>Highway 1 - Northbound</b>							
Mirada Road to Capistrano (North)	02:36	03:05	1.18	03:29	1.34	03:27	1.32
Capistrano (North) to 16th Street	02:59	03:24	1.14	03:27	1.16	03:28	1.16
16th Street to 1st Street	00:54	01:00	1.11	01:00	1.10	00:56	1.04
<b>Total</b>	<b>06:29</b>	<b>07:28</b>	<b>1.15</b>	<b>07:56</b>	<b>1.22</b>	<b>07:51</b>	<b>1.21</b>

~ Free Flow is segment length divided by the speed limit and an output of Synchro

Table 24: Existing Conditions Delay Index for Highway 92

	<b>FREE FLOW~</b>	<b>AM</b>		<b>Midday (Weekend)</b>		<b>PM</b>	
	<i>Travel Time</i>	<i>Travel Time</i>	<i>Delay Index</i>	<i>Travel Time</i>	<i>Delay Index</i>	<i>Travel Time</i>	<i>Delay Index</i>
<b>Highway 92</b>							
HMB City Limit to I-280 Ramp (EB)	08:42	12:51	1.48	12:51	1.48	12:43	1.46
I-280 Ramp to HMB City Limit (WB)	08:42	12:25	1.43	12:25	1.43	12:49	1.47

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# PROJECTED TRANSPORTATION CONDITIONS

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## BACKGROUND

In order to identify future transportation deficiencies (i.e., where performance measures are not met), the project team had to develop future travel forecasts at intersections and along roadway segments. The forecasts for future traffic demand on weekdays were developed using the San Mateo County C/CAG-VTA Travel Demand Model. The Travel Demand model can forecast traffic volumes for a general area called a Transportation Analysis Zone (TAZ) (see map on page 41). Since having area-wide volumes does not tell us the actual impact on key performance indicators at specific locations, the Furness process<sup>33</sup> was used to spread the volumes out to intersections along the corridor based on land use. The general process for projecting future transportation conditions on weekdays is as follows:

1. Run travel demand model for current year (2014) → **Existing weekday peak hour traffic volumes**
2. Run travel demand model for horizon year (2040) → **Forecasted weekday peak hour traffic volumes based on regional growth and other factors by TAZ**
3. Update travel demand model for horizon year (2040) with Maximum Buildout Forecast land use → **Forecasted weekday peak hour traffic volumes based on assumption of Maximum Buildout by TAZ**
4. Compute the future segment volumes by adding growth-related traffic to existing volumes, and use the Furness process to assign volumes to intersections → **Forecasted weekday peak hour traffic volumes by intersection and segment**
5. Analyze the forecasted traffic data using additional software (e.g., Synchro and Simtraffic) → **Forecasted weekday peak hour intersection and roadway level of service and delay**

The C/CAG Travel Demand Model is intended to represent conditions on an average weekday, rather than modeling weekend travel conditions. Therefore, the project team used a different approach to determine future weekend traffic volumes. The general process for projecting future transportation conditions on weekends is as follows:

1. Conduct 7-day vehicle counts along Highways 1 and 92 → **Determine weekday midday and Saturday midday peak-hour volumes conversion factor**
2. Use updated travel demand models for 2040 with Maximum Buildout Forecast and apply conversion factor to weekday model volumes into weekend model volumes based on counts → **Forecasted weekend peak hour traffic volumes**

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<sup>33</sup> Assessing “trip distribution” is part of the transportation modeling process and involves matching a trip maker’s origin with destinations in different zones to create a “trip matrix,” or the number of trips that have the same origins and destinations. The Furness method is a matrix modification method used to extrapolate trip distribution based on future growth.

3. Compute the future segment volumes by adding growth to existing volumes, and use the Furness process to assign volumes to intersections → **Forecasted weekend peak hour traffic volumes by intersection and segment**
4. Analyze the forecasted traffic data using additional software (e.g., Synchro and Simtraffic) → **Forecasted weekend peak hour intersection and roadway segment level of service and delay**

The results of the transportation analysis based on the projected Maximum Buildout Forecast is described further in the following section. Travel demand models are just that – models – and all models have limitations. Travel demand models cannot replicate the nuances of human behavior and travel choices, nor can they effectively consider the physical environment. The purpose of the model is to provide a sense of what will happen based on the future changes that is reasonable based on the assumptions.

## PROJECTED DEFICIENCIES

There are two ways growth affects transportation conditions:

1. **Increase in number of vehicles wanting to access highways from within the Study Area causing increased delays.** Development within the Study Area increases the number of vehicles wanting to turn on Highways 1 and 92 from side streets within the Study Area. This growth is spread along multiple access points but can result in increased delay at intersections along Highways 1 and 92, most of which only have a single lane of access and are controlled by minor-street stop signs.
2. **Growth in regional pass-through traffic, leading to increased congestion.** While development within the Study Area results in an increase in traffic volumes along Highway 1, some traffic is also due to regional pass-through trips which do not start or end within the Study Area.

The sections below describe when transportation conditions become deficient under the Maximum Buildout Forecast based on the existing and recommended performance standards.

### *Intersection Level of Service*

Connect the Coastside uses intersection LOS D for intersections during the weekday peak hours and LOS E for weekend peak hours as the performance standard, per the Local Coastal Program. The operation of study intersections under Maximum Buildout Forecast conditions as compared to Existing Conditions is shown in Table 25. Intersections that operate below the LOS D during weekday peak periods or below LOS E during weekend peak periods are denoted in red.

Under Maximum Buildout Forecast conditions, the signalized intersection of Highway 1 and Coronado Street will operate at LOS D during the weekday peak hours. The majority of unsignalized intersections along Highway 1 have minor street approaches that will operate below the LOS D standard. All of these unsignalized intersections are minor-street, stop-



controlled and only have one lane of approach. Of these intersections, California Avenue and Cypress Avenue are projected to have more than 75 vehicles per hour on an approach turning onto Highway 1 and satisfy signal warrants 1 and 2 under Maximum Buildout Forecast conditions. While adding additional approach lanes may facilitate the movement of right-turning vehicles onto Highway 1, the main cause for intersections failing LOS under Maximum Buildout Forecast conditions is the high through volume along Highway 1. This results in left-turning vehicles on the minor streets needing to wait a long time for a sufficient gap between cars to safely enter Highway 1. This could be mitigated by controlling intersections with high minor street volumes and combining low volume minor street approaches where feasible.

Table 25: Maximum Buildout Forecast Intersection Level of Service Compared to Existing Intersection Level of Service

Street Names	Existing Control Type	LOS Standard <sup>1</sup>	AM Peak Hour LOS <sup>3</sup>		PM Peak Hour LOS <sup>3</sup>		Weekend (Midday) Peak Hour LOS <sup>3</sup>	
			Max. Buildout <sup>2</sup>	Existing <sup>2</sup>	Max. Buildout <sup>2</sup>	Existing <sup>2</sup>	Max. Buildout <sup>2</sup>	Existing <sup>2</sup>
Highway 1								
SR-1 / 2nd St <sup>o</sup>	TWSC	C(D)	F	C	F	C	F	C
SR-1 / 7th St	TWSC	C(D)	C	B	C	B	C	B
SR-1 / 8th St <sup>o</sup>	TWSC	C(D)	F	C	F	D	F	E
SR -1 / 16 <sup>th</sup> St <sup>^o</sup>	TWSC	C(D)	F	C	F	E	F	E
SR -1 / Carlos St	TWSC	C(D)	C	B	C	B	C	B
SR-1 / Vallemar St <sup>o</sup>	TWSC	C(D)	D	C	F	C	E	C
SR-1 / California Ave <sup>o</sup>	TWSC	C(D)	F	D	F	E	F	F
SR-1 / Virginia Ave <sup>o</sup>	TWSC	C(D)	F	C	F	E	F	F
SR-1 / Vermont Ave (WB) <sup>o</sup>	TWSC	C(D)	F	D	F	E	F	F
SR-1 / Cypress Ave (EB) <sup>o</sup>	TWSC	C(D)	F	E	F	F	F	F
SR-1 / Etheldore St (South) <sup>o</sup>	TWSC	C(D)	F	C	F	D	C	E
SR-1 / Capistrano Rd (North)	TWSC	C(D)	C	C	C	C	D	D
SR-1 / Coral Reef Ave <sup>o</sup>	TWSC	C(D)	F	C	F	C	F	D
SR-1 / Capistrano Rd (South)	Signalized	C(D)	C	B	C	B	C	C
SR-1 / Coronado St <sup>o</sup>	Signalized	C(D)	D	C	D	B	E	B
Obispo Rd / Coronado St	TWSC	C(D)	B	B	B	B	B	B
SR-1 / Magellan Ave <sup>o</sup>	TWSC	C(D)	F	F	F	F	F	F
SR-1 / Medio Ave <sup>o</sup>	TWSC	C(D)	F	F	F	F	F	F
SR-1 / Miramar Dr <sup>o</sup>	TWSC	C(D)	E	C	F	F	F	E
SR-1 / Mirada Rd <sup>o</sup>	TWSC	C(D)	F	F	F	F	F	F
Highway 92								
SR-92 / Ox Mt. Landfill Rd	TWSC	C(D)	E	F	F	F	F	D

SR-92 / Skyline Blvd (West, Upper)	TWSC	C(D)	F	E	F	F	F	F
SR-92 / SR-35 (East, Lower)	Signalized	C(D)	D	B	F	C	F	D

Notes:

<sup>1</sup>LOS standard provided within parenthesis are for any one individual movement

<sup>2</sup>Signalized intersections and all way stop-controlled (AWSC) are reported by the LOS for the intersection; two-way stop controlled (TWSC) intersections are reported with the worst approach's level of service

<sup>3</sup>Unsignalized intersections that have minor street approaches that operate below LOS D during weekday peak periods or below LOS E during weekend peak periods, per the existing performance standards, are denoted in red in the table.

<sup>9</sup>Intersection falls below the existing intersection LOS standard under maximum buildout forecast conditions

<sup>^</sup> Level of service analysis was done as part of draft Intersection Control Evaluation memos; LOS for existing and buildout for each time period are reported for HCM 2010 TWSC

### *Roadway Level of Service*

Table 26 shows roadway segment LOS under Maximum Buildout Forecast conditions compared to existing conditions. Local Coastal Program Policy 2.43 sets LOS D as the acceptable level of service for roadway segments during weekday peak periods, and LOS E as acceptable during weekend (recreational peak periods when assessing the need for road expansion).

Under Maximum Buildout Forecast Conditions, both Highways 1 and 92 do not meet the defined LOS standard for any roadway segment. These are highlighted in red in the table below. This is due to the forecasted high-through volumes on Highways 1 and 92.

The City of Half Moon Bay's Local Coastal Land Use Plan's Table B-10 includes Highways 1 and 92 roadway level of service for maximum theoretical buildout on page B-9: roadway LOS is F for Highway 1 north of Highway 92, D or E for Highway 1 south of Highway 92, and F for Highway 92 for the AM, PM, and weekend peak periods.<sup>34</sup>

Connect the Coastside does not recommend using roadway level of service as a performance measure moving forward.

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<sup>34</sup> City of Half Moon Bay Local Coastal Land Use Plan, Updated 2020. <https://www.half-moon-bay.ca.us/154/Local-Coastal-Program-Land-Use-Plan>

Table 26: Maximum Buildout Forecast Roadway Segment Level of Service Compared to Existing Roadway Segment Level of Service

Location	Class	Capacity	AM <sup>1</sup>				PM <sup>1</sup>				Weekend (Midday) <sup>1</sup>			
			Max. Volume (veh/hr)	Max v/c	Max. LOS	Existing LOS	Max. Volume (veh/hr)	Max v/c	Max. LOS	Existing LOS	Max. Volume (veh/hr)	Max v/c	Max. LOS	Existing LOS
<b>Highway 1</b>														
1st St and 2nd St	Two-Lane Highway	2800	1867	0.67	E	D	2162	0.77	E	D	2421	0.86	E	D
2nd St and 7th St	Two-Lane Highway	2800	1688	0.60	E	D	1940	0.69	E	D	2265	0.81	E	D
7th St and 9th St	Two-Lane Highway	2800	1737	0.62	E	D	2019	0.72	E	D	2297	0.82	E	D
9th St and Carlos St	Two-Lane Highway	2800	1886	0.67	E	C	2154	0.77	E	D	2397	0.86	E	D
Carlos St and Vallemar St	Two-Lane Highway	2800	1876	0.67	E	D	2151	0.77	E	D	2396	0.86	E	D
Vallemar St and California St	Two-Lane Highway	2800	1800	0.64	E	D	2068	0.74	E	D	2323	0.83	E	D
California St and Vermont St	Two-Lane Highway	2800	1873	0.67	E	D	2166	0.77	E	D	2428	0.87	E	D
Vermont St and Cypress Ave	Two-Lane Highway	2800	1956	0.70	E	D	2178	0.78	E	D	2388	0.85	E	D
Cypress Ave and Etheldore St	Two-Lane Highway	2800	1871	0.67	E	D	2136	0.76	E	D	2428	0.87	E	D
Etheldore St and Capistrano Rd N	Two-Lane Highway	2800	1756	0.63	E	D	2312	0.83	E	D	2061	0.74	E	D
Capistrano Rd N and Coral Reef Ave	Two-Lane Highway	2800	1637	0.58	E	D	2264	0.81	E	D	1961	0.70	E	E
Coral Reef Ave and Capistrano Rd S	Two-Lane Highway	2800	1598	0.57	E	D	2170	0.78	E	D	2059	0.74	E	D
Capistrano Rd S and Coronado St	Two-Lane Highway	2800	1835	0.66	E	D	2244	0.80	E	D	2291	0.82	E	D
Coronado St and Medio Ave	Two-Lane Highway	2800	2505	0.89	E	E	2897	1.03	F	E	2925	1.04	F	E

Medio Ave and Miramar Dr	Two-Lane Highway	2800	2559	0.91	E	E	2955	1.06	F	E	2962	1.06	F	E
Miramar Dr and Mirada Rd	Two-Lane Highway	2800	2596	0.93	E	E	2743	0.98	E	E	3190	1.14	F	E
<b>Highway 92</b>														
R Rd and Muddy Road	Two-Lane Highway	2800	2078	0.74	E	E	2360	0.84	E	E	2266	0.81	E	E
Muddy Road and Skyline Blvd	Two-Lane Highway	2800	2156	0.77	E	E	2474	0.88	E	E	2457	0.88	E	D
Skyline Blvd and SR 35	Two-Lane Highway	2800	2657	0.95	E	D	3030	1.08	F	D	3117	1.11	F	D
SR 35 and I-280	Two-Lane Highway	2800	2237	0.80	E	D	2516	0.90	E	E	2669	0.95	E	E

<sup>1</sup>Roadway segments that are deficient according to current roadway level of service (LOS) standards are highlighted in red

### *Delay Index*

A delay index was calculated for study segments along entire lengths of Highways 1 and 92 within the Study Area under Maximum Buildout Forecast conditions per the proposed use of the Delay Index as a performance measure.

Delay Index and travel times for study segments along Highway 1 and Highway 92 under Maximum Buildout Forecast Conditions compared to existing conditions are shown on the next page. The Highway 1 southbound segment exceeds the delay index performance standard of 2.0 during the weekday PM peak hour, mainly on the southern portion of the route from Capistrano (North) to Mirada Road. Highway 92 meets the delay index performance standard of 2.0 for the entire route under both existing and Maximum Buildout Forecast conditions.

The City of Half Moon Bay's Local Coastal Land Use Plan's Table B-10 includes Highways 1 and 92 delay index values for maximum theoretical buildout on page B-9.<sup>35</sup> For the weekday AM period, the delay index is 5.1 for Highway 1 north of Highway 92, 1.03 for Highway 1 south of Highway 92, and 2.3 for Highway 92. For the Weekday PM period, the delay index is 5.7 for Highway 1 north of Highway 92, 1.03 for Highway 1 south of Highway 92, and 3.9 for Highway 92.

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<sup>35</sup> City of Half Moon Bay Local Coastal Land Use Plan, Updated 2020. <https://www.half-moon-bay.ca.us/154/Local-Coastal-Program-Land-Use-Plan>

Table 27: Maximum Buildout Forecast Conditions Delay Index Compared to Existing Conditions for Highway 1

	FREE FLOW~	EXISTING						MAXIMUM BUILDOUT*					
	Travel Time	AM		Midday (Weekend)		PM		AM		Midday (Weekend)		PM	
		Travel Time	Delay Index	Travel Time	Delay Index	Travel Time	Delay Index	Travel Time	Delay Index	Travel Time	Delay Index	Travel Time	Delay Index
<b>Highway 1 - Southbound</b>													
1st Street to 16th Street	01:00	00:29	0.49	00:33	0.55	00:32	0.53	00:34	0.58	00:48	0.80	00:39	0.66
16th Street to Capistrano (North)	02:59	03:40	1.23	03:56	1.32	03:50	1.28	03:34	1.19	04:02	1.35	03:41	1.23
Capistrano (North) to Mirada Road	02:29	03:10	1.27	03:21	1.35	03:16	1.31	05:43	2.30	07:45	3.12	10:39	4.28
<b>Total</b>	<b>06:28</b>	<b>07:19</b>	<b>1.13</b>	<b>07:50</b>	<b>1.21</b>	<b>07:37</b>	<b>1.18</b>	<b>09:51</b>	<b>1.52</b>	<b>12:35</b>	<b>1.94</b>	<b>14:59</b>	<b>2.32</b>
<b>Highway 1 - Northbound</b>													
Mirada Road to Capistrano (North)	02:36	03:05	1.18	03:29	1.34	03:27	1.32	03:29	1.34	04:54	1.88	04:32	1.74
Capistrano (North) to 16th Street	02:59	03:24	1.14	03:27	1.16	03:28	1.16	03:15	1.09	03:20	1.12	03:24	1.14
16th Street to 1st Street	00:54	01:00	1.11	01:00	1.10	00:56	1.04	01:09	1.28	01:08	1.25	01:06	1.21
<b>Total</b>	<b>06:29</b>	<b>07:28</b>	<b>1.15</b>	<b>07:56</b>	<b>1.22</b>	<b>07:51</b>	<b>1.21</b>	<b>07:53</b>	<b>1.22</b>	<b>09:22</b>	<b>1.44</b>	<b>09:01</b>	<b>1.39</b>

~ Free Flow is segment length divided by the speed limit and an output of Synchro

\* In Maximum Buildout conditions, segments that do not meet the delay index standard of 2.0 are highlighted in red



Table 28: Maximum Buildout Forecast Conditions Delay Index Compared to Existing Conditions for Highway 92

	FREE FLOW~	EXISTING						MAXIMUM BUILDOUT*					
		AM		Midday (Weekend)		PM		AM		Midday (Weekend)		PM	
		Travel Time	Delay Index	Travel Time	Delay Index	Travel Time	Delay Index	Travel Time	Delay Index	Travel Time	Delay Index	Travel Time	Delay Index
<b>Highway 92</b>													
HMB City Limit to I-280 Ramp (EB)	08:42	12:51	1.48	12:51	1.48	12:43	1.46	12:48	1.47	12:39	1.45	12:40	1.46
I-280 Ramp to HMB City Limit (WB)	08:42	12:25	1.43	12:25	1.43	12:49	1.47	12:21	1.42	12:44	1.46	12:45	1.47

~ Free Flow is segment length divided by the speed limit and an output of Synchro

\* In Maximum Buildout conditions, segments that do not meet the delay index standard of 2.0 are highlighted in red; all of Highway 92 meets thresholds

## OTHER

Based on the guidelines discussed on page 63, the following concerns should be addressed, as safety concerns and the need for multimodal facilities will increase in the Maximum Buildout Forecast condition and are critical to reduce traffic congestion and meet the community's vision and goals:

- **Driving**
  - Conflicting pavement markings (e.g., left-turn pockets) and lack of pavement markings leads to increased speeds and safety concerns, and driver confusion, adding to congestion.
- **Parking**
  - Poor parking utilization due to lack of signage and pavement markings, leads to poor occupancy at existing lots and congestion as drivers circle to find parking.
- **Walking Network**
  - Lack of continuity in sidewalks and pathways creates an inhospitable walking environment, deterring both visitors and residents to walk for short trips, like to school or to the Post Office.
- **Pedestrian Crossings**
  - Few controlled marked crossings of Highways 1 and 92 near important destinations, such as recreational areas, trailheads, bus stops and to/from parking lots, creates additional safety concerns and deters walking.
  - Existing marked crossings lack supportive safety infrastructure for the volumes and speeds along highways, creating safety concerns and further deterring walking.
- **Bikeways**
  - Few designated bikeways (most are Class III Signed Bike Routes) and little bicycle parking makes bicycling as a primary mode of transportation challenging.
- **Trails**
  - California Coastal Trail is a state and regional priority and is incomplete and lacks a consistently defined alignment.
  - Trails will continue to be major trip-generators with additional trail-roadway crossings and amenities needed. Trails often follow roadway network alignments, so must be considered in any transportation recommendations.
- **Transit**
  - Low frequency of buses, lack of amenities at bus stops, and limited hours of operation deter transit ridership for those who have the option to drive, and do not serve students well.
  - Lack of visitor-serving transit options to travel to Midcoast or get around while there encourages driving as the primary mode for visitors to the coast.

# 7.Recommendations

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## BACKGROUND

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This chapter includes proposed projects, policies and programs intended to meet community-identified needs; offset the demand for all new vehicle trips generated by new residential development in the Midcoast on Highway 1, Highway 92, and relevant local streets during commuter peak periods and peak recreation periods; and to mitigate for existing and future development's significant adverse cumulative impacts on public access to the beaches of the Midcoast region of San Mateo County. It is important to note that just because a location does not meet a deficiency as defined by the current and proposed performance standards, it does not mean a recommendation is not appropriate. Recommended projects are intended to address community needs and traffic safety concerns, which are not necessarily captured by the current and proposed performance standards. Accordingly, Connect the Coastside includes project proposals to improve walking, bicycling, transit service and driving to improve mobility and safety for Midcoast residents.

Connect the Coastside's proposed projects, programs, and policy recommendations are preliminary and at the planning-level. Some projects are not intended for implementation in the near-term, as they would address future deficiencies. It is beyond the scope of this Plan to develop final designs and engage at the individual project-level; graphics depicting projects are conceptual only and not reflective of final design. All projects involving construction will require a community engagement process and detailed design process that will consider environmental, regulatory, topographic, fiscal and other constraints.

Quantifying mode shifts when new active transportation facilities are provided where they did not exist previously is challenging; therefore, Connect the Coastside cannot project the benefits from a modal shift. As more effective data collection and analysis tools emerge, future updates to this plan will include assessments of multimodal improvements.

This chapter is organized as follows:

- Developing Recommendations (page 102)
- Recommended Infrastructure and Service Improvements (page 103) – summary tables and maps, followed by recommendations organized by mode
- Mitigated Transportation Performance (page 145) – results of analysis incorporating infrastructure recommendations
- Recommended Planning Studies (page 151)
- Recommended Policies and Programs (page 154)
- Recommended Standards and Evaluation (page 160)
- Other Efforts to Improve Transportation Conditions (page 162)

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## DEVELOPING RECOMMENDATIONS

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Connect the Coastside's recommendations come from various sources and have been refined over time. In general, recommendations were developed as follows:

1. Determine where deficiencies occur in existing and projected (Maximum Buildout Forecast) conditions based on the performance standards.
2. Gather information on transportation concerns, priorities, and potential projects from stakeholders, such as Technical Advisory Committee, Midcoast Community Council, and community members.
3. Review relevant past and ongoing plans and studies to inform recommendations, such as Highway 1 Safety and Mobility Improvement Study (Phases 1 and 2), Unincorporated San Mateo County Active Transportation Plan, and Plan Princeton.
4. Review forthcoming transportation projects led by other actors, such as Caltrans, and proposed development projects, such as Big Wave.
5. Identify limitations to potential project recommendations, such as topography, environmental resources and available right-of-way.
6. Identify a suite of potential improvements based on findings to meet proposed standards while advancing community goals.
7. Share potential improvements with stakeholders for feedback and refinement.
8. Develop the final list of recommendations.

The potential improvements are based upon the ability to address performance standard deficiencies (existing and projected), preliminary feasibility, cost, consistency with the Local Coastal Program (including environmental considerations), community character, traffic safety, and ability to reduce overall demand for driving.

## RECOMMENDED INFRASTRUCTURE AND SERVICE IMPROVEMENTS

Recommended improvements are intended to increase mobility, address safety concerns, and resolve performance standard deficiencies. Improvements are detailed in separate sections by mode (roadway (R), pedestrian (Pe), bikeways (B), transit (T), parking (Pa), recreational trails, and other), and are not in any particular order of priority within each section. The following table summarizes recommendations, followed by a series of maps by community, and then detailed discussion of each project. This section concludes with a performance standards assessment.

Table 29: Recommended Infrastructure Projects

Proj. #	Project Name	Brief Description	Community
R1	Highway 1 Shoulder Treatment	Construct consistent shoulder treatment of curb and gutter in "Village" and "Fringe" in designated areas of Highway 1	All
R2	Highway 1 Side Street Stop Signs	Install stop signs and pavement markings at all side streets of SR-1 where missing	All
R3	Gray Whale Cove Turn and Acceleration Lanes	Install left-turn bay with painted island to provide storage area for left-turn movements in and out of Gray Whale Cove parking lot (from southbound Highway 1) and acceleration lane to turn left out of parking lot and continue southbound on Highway 1	North of Montara
R4	Highway 1 Turn and Acceleration Lanes at 8th Street	Modify striping to create left-turn lane into 8th St from Highway 1 southbound and acceleration lane out of 8th St to continue Highway 1 southbound	Montara
R5	16th St / Highway 1 Intersection Control	Intersection control, with preliminary recommendation of single-lane roundabout	Moss Beach
R6	California Ave / Highway 1 Intersection Control	Intersection control, with preliminary recommendation of single-lane roundabout	Moss Beach
R7	Cypress Ave / Highway 1 Intersection Control	Intersection control, with preliminary recommendation of multi-lane roundabout	Moss Beach
R8	Main Street Traffic Calming and Bicycle/Pedestrian Connectivity	Pedestrian access, traffic calming and bicycle improvements in Central Montara between 7th and 11th Streets, including: curb extensions, sidewalks, marked crossings, mini traffic circle, and bike route.	Montara
R9	Carlos Street Realignment to 16th Street	Realign northern terminus of Carlos Street at Highway 1 to connect to 16th Street.	Moss Beach
R10	Carlos Street Traffic Calming	Striping, signage, and completion of missing sidewalk, with conversion to one-way southbound with parking reoriented facing south on Carlos Street to accommodate the Parallel Trail and calm traffic in central Moss Beach	Moss Beach
R11	Highway 92 / Highway 35 (East, Lower) Intersection Improvements	Intersection improvements to facilitate pedestrian and bicycle crossings and improve signal timing	Highway 92
R12	Highway 92 / Highway 35 (West, Upper) Intersection Control	Add traffic signal and crossing improvements to facilitate connections for trail users and turning movements for motorists.	Highway 92
R13	Highway 92 Truck Signs	"Trucks Use Right Lane" signage along Highway 92	Highway 92

<b>R14</b>	Highway 92 Left-turn Pockets	Provide left-turn pockets at local businesses on Highway 92	Highway 92
<b>Pe1</b>	New and Improved Crossings of Highways 1 and 92	Improve existing and add new pedestrian crossings on Highways 1 and 92 including marked crossings with flashing beacons, overcrossing of Highway 1 / south of Carlos St, and improve Highway 1 / Coronado St	All
<b>Pe2</b>	Highway 1 Multimodal Parallel Trail	Connected walking and bicycling facilities along the east side of Highway 1 through connected Class I Path, sidewalks, and Class III Bike Route, with marked crossings of intersecting streets with the path	All
<b>Pe3</b>	Midcoast Alignment Completion of California Coastal Trail	Recommended California Coastal Trail alignment and improvements in the Midcoast including: wayfinding signage, Class I Path, Class III Bike Route, trails, and paths.	All
<b>Pe4</b>	Highway 1 Sidewalks in Moss Beach and Montara	Add sidewalks in central Montara and Moss Beach in front of businesses located on Highway 1 and marked crossings of side streets intersection with Highway 1	Montara, Moss Beach
<b>Pe5</b>	Central Moss Beach Bicycle and Pedestrian Improvements	Add sidewalk on west side where missing on Etheldore St (north of California Ave) and California Ave (south of Etheldore) to connect to existing sidewalks, and add Class III Bike Route on California Ave from Etheldore St to Highway 1	Moss Beach
<b>Pe6</b>	Montara Safe Routes to School	Various improvements to make it easier to walk and bike to Farallone View Elementary School, including sidewalks, Class III Bike Routes, improved crossings, and stop signs	Montara
<b>Pe7</b>	El Granada Safe Routes to School	Various improvements to make it easier to walk and bike to El Granada Elementary School and the Wilkinson School, including sidewalks, Class III Bike Routes, traffic calming, and improved crossings.	El Granada
<b>Pe8</b>	Capistrano Road (South) Intersection Improvements	Improve intersection for pedestrian access including high visibility crosswalks, refuge islands and guide signs	El Granada, Princeton
<b>B1</b>	Highway 1 Bikeway	Bikeway designation on Highway 1 of Class II Bike Lanes	All
<b>B2</b>	Airport Street Bikeway and Princeton Connections	Bicycle and pedestrian connections from Moss Beach to Princeton via Cypress and Airport St.	Princeton
<b>B3</b>	Capistrano Road Bikeway	Bikeway designations on Capistrano Road, including Class III Bike Route with paved shoulders, Class III Bike Route with sharrows, and Class II Bike Lanes.	Princeton
<b>B4</b>	Highway 92 Bikeway	Bikeway designation on Highway 92 of Class III and widening shoulders where feasible	Highway 92
<b>B5</b>	Bicycle Parking	Install short-term bicycle parking at key destinations throughout the Midcoast	All
<b>T1</b>	Transit Stop Improvements	Ensure all bus stops have ADA accessible pad, with additional amenities at higher use stations including benches, shelters, and lighting	All
<b>T2</b>	Recreational Microtransit	Recreational weekend microtransit (e.g., passenger van, shuttle, or other) that run from 1) Hillsdale Caltrain Station to the Midcoast via Highway 92, continuing north to Gray Whale Cove and returning, and 2) Colma BART to Highways 1 and 92 intersection and returning	All
<b>T3</b>	Increased Midcoast Bus Service	Additional bus service on the Route 17 and new express bus service during peak hours between the Midcoast and Colma BART	All
<b>Pa1</b>	Upper Gray Whale Cove Parking Lot Improvements	Improve parking lot with pervious concrete to improve drainage and increase parking use	North of Montara
<b>Pa2</b>	Wayfinding	Install wayfinding signage to help orient drivers to navigate the Midcoast, including to find parking	All

Map 10: Recommended Infrastructure Improvements North of Montara





Map 11: Recommended Infrastructure Improvements Montara



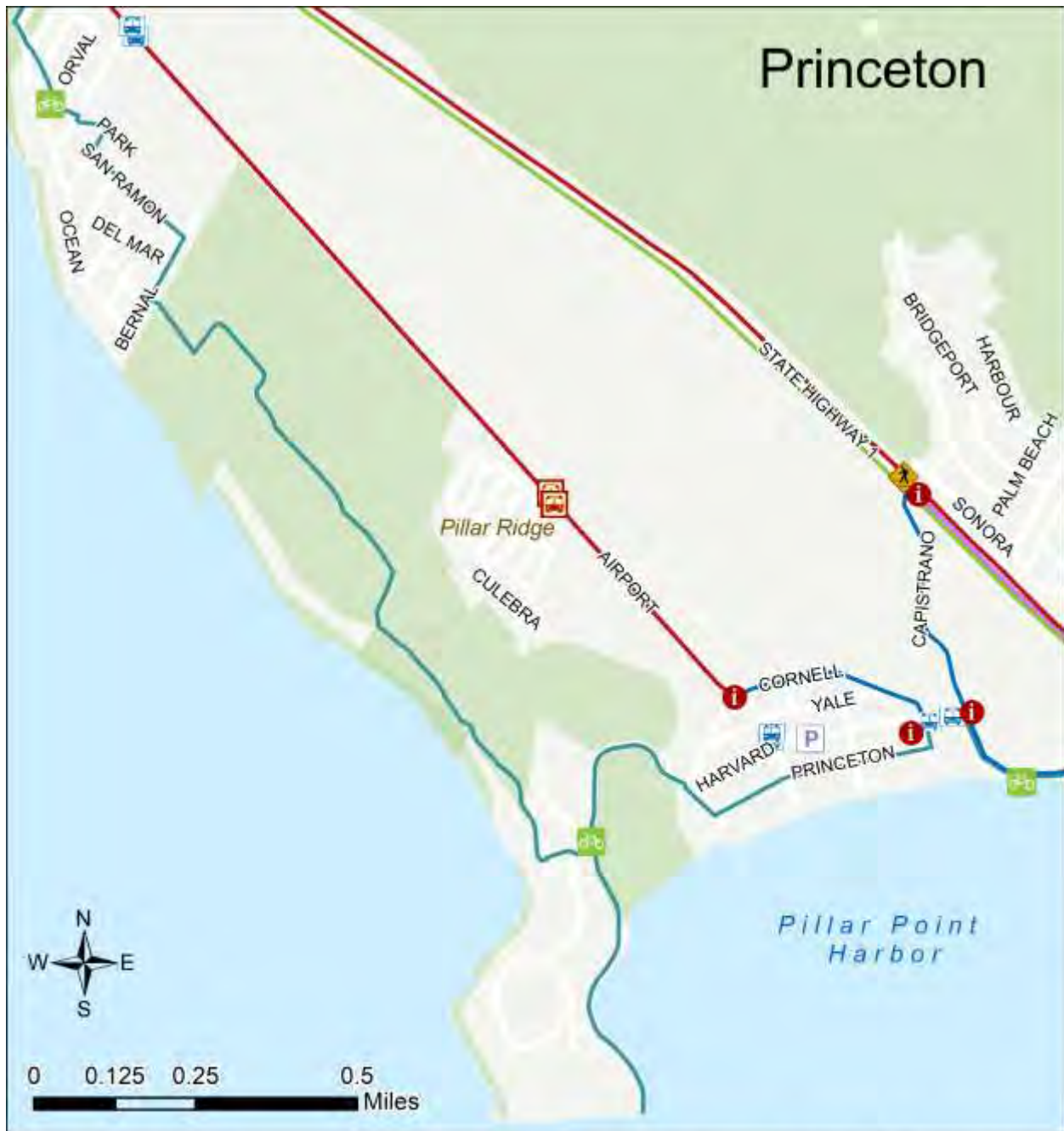
- |  |                             |  |                                     |  |  |
|--|-----------------------------|--|-------------------------------------|--|--|
|  | Proposed Turn Lane          |  | Existing Bus Stops                  |  | Traffic Calming                              |
|  | Proposed Bike Parking       |  | Proposed Stop Signs                 |  | Fringe Zone Shoulder Treatment               |
|  | Improved & New Crossings    |  | Proposed Striped Bike Lane          |  | Village Zone Shoulder Treatment              |
|  | Proposed Wayfinding Signage |  | Proposed Shared Street Bike Route   |  | Potential California Coastal Trail Alignment |
|  | Intersection Improvements   |  | Proposed Separated Multimodal Trail |  |  |
|  | Bus Stop Improvements       |  | Proposed Sidewalk                   |  |  |

Map 12: Recommended Infrastructure Improvements Moss Beach



- |  |                                  |  |                                 |  |  |
|--|----------------------------------|--|---------------------------------|--|--|
|  | Proposed Bike Parking            |  | Proposed Stop Signs             |  | Proposed Separated Multimodal Trail            |
|  | Improved & New Highway Crossings |  | Road Realignment                |  | Proposed Shared Street Bike Route              |
|  | Proposed Wayfinding Signage      |  | Proposed Sidewalks              |  | Proposed Striped Bike Lane                     |
|  | Proposed Intersection Control    |  | Carlos St Improvements          |  | Recommended California Coastal Trail Alignment |
|  | Bus Stop Improvements            |  | Fringe Zone Shoulder Treatment  |  |  |
|  | Existing Bus Stops               |  | Village Zone Shoulder Treatment |  |  |

Map 13: Recommended Infrastructure Improvements Princeton



- |                                  |                                     |                                      |
|----------------------------------|-------------------------------------|--------------------------------------|
| Parking Study                    | Bus Stop Improvements               | Fringe Zone Shoulder Treatment       |
| Proposed Bike Parking            | Existing Bus Stops                  | Recommended California Coastal Trail |
| Improved & New Highway Crossings | Proposed Separated Multimodal Trail |                                      |
| Proposed Wayfinding Signage      | Proposed Shared Street Bikeway      |                                      |

Map 14: Recommended Infrastructure Improvements El Granada



- |                                  |  |                                   |
|----------------------------------|--|-----------------------------------|
| Parking Study                    | Existing Bus Stops                             | Village Zone Shoulder Treatment   |
| Proposed Bike Parking            | School   | Proposed Striped Bike Lane        |
| Improved & New Highway Crossings | Proposed Separated Multimodal Trail            | Proposed Shared Street Bike Route |
| Proposed Wayfinding Signage      | Recommended California Coastal Trail Alignment | Proposed Sidewalk                 |
| Intersection Improvements        | Fringe Zone Shoulder Treatment                 | City of Half Moon Bay             |
| Bus Stop Improvements            |  |                                   |









Map 15: Recommended Infrastructure Improvements Miramar



- |   |                       |   |                                     |  |  |
|---|-----------------------|---|-------------------------------------|--|--|
|  | Proposed Bike Parking |  | Existing Bus Stops                  |  | Recommended California Coastal Trail Alignment |
|  | New Highway Crossings |  | Proposed Stop Signs                 |  | City of Half Moon Bay                          |
|  | Bus Stop Improvements |  | Proposed Separated Multimodal Trail |  |  |
|   |                       |  | Village Zone Shoulder Treatment     |  |  |

Map 16: Recommended Infrastructure Improvements Highway 92



- |   |                                   |   |                                       |   |                                    |
|---|-----------------------------------|---|---------------------------------------|---|------------------------------------|
|  | Proposed Shared Street Bike Route |  | Existing Bus Stops                    |  | Proposed Intersection Improvements |
|  | Proposed Turn Lane                |  | Existing "Trucks Use Right Lane" sign |  | Proposed Intersection Control      |
|  | New Highway Crossings             |  | Proposed "Trucks Use Right Lane" sign |   |                                    |

## ROADWAY (R)

### R1. HIGHWAY 1 SHOULDER TREATMENT

**Description:** Construct consistent shoulder treatment of curb and gutter in "Village" and valley gutter in "Fringe" in designated areas of Highway 1

**Source:** Highway 1 Safety & Mobility Study Phase 2 (p.13)

**Rationale:** Traffic safety concern - address high vehicle speeds

**Location:** Village: Highway 1 between: 7th St and 11th St, Vallemar St and Marine Blvd, and Capistrano Rd (S) and Mirada Rd. Fringe: Highway 1 between: 1st St and 7th St, 11th St and Vallemar St, Marine Blvd and Etheldore St (S), and Capistrano Rd (N) and Capistrano Rd (S).

**Discussion:** The Highway 1 Safety and Mobility Improvement Study identified three Context Zones to guide improvements:

- **Rural zones** are sparsely developed and primarily agricultural or recreational uses. An example includes Route 1 between the southern fringe of Moss Beach and access to Princeton, north of El Granada. In rural zones, there are generally few pedestrians, bicyclists, and access points. Vehicle speeds tend to be high.
- **Fringe zones** are transitional segments on approaches and exits at village edges, where rural context attributes begin changing. Pedestrian and bicycle activity is likely to increase in the fringe areas, and more traffic turns on and off Highway 1 to access residential and commercial areas. Driver speeds should begin to lower as drivers become aware of the changing context and anticipate potential conflicts or seek access to local sites. In many places, mixed and undefined adjacent land uses provide few cues to trigger speed reduction.
- **Village zones** include the coastal communities of Montara, Moss Beach, Princeton, El Granada, and Miramar. In Villages, potential traffic conflicts increase as visitors and residents seek parking, recreation, retail, transit stops, and restaurant sites. Pedestrian and bicycle traffic increase, and traffic movements at major intersections may be controlled with signs or signals.

The Highway 1 Safety and Mobility Improvement Study recommends various improvements by zone, such as consistent and narrower Highway 1 lane widths, implementation of raised medians, and implementation of edge treatments. Connect the Coastside's project is limited to the edge treatment for village and fringe zones, since roadway reconfiguration due to other projects (e.g., bicycle lanes on Highway 1 and intersection controls) will influence lane widths and ability to include medians. Additional engagement with residents and coordination with Caltrans will be necessary to define the specific extents of proposed curb and gutter and valley gutter.

## R2. HIGHWAY 1 SIDE STREET STOP SIGNS

**Description:** Install stop signs and pavement markings at all side streets of Highway 1 where missing

**Source:** Connect the Coastside

**Rationale:** Traffic safety concern - address standard signage and marking deficiency

**Location:** Highway 1 at 1st St (1 sign, east of highway), Seacliff Court (1 sign, west of highway), 11th St (1 sign, west of highway), 13th St (1 sign, west of highway), 16th St/Lighthouse Dr (1 sign, west of highway), Terrace Ave (STOP pavement markings, east of highway), and Furtado Lane (1 sign, east of highway)

**Discussion:** Signage providing accurate information makes drivers and pedestrians more alert and improves the safety of intersections and roadway segments. The Highway 1 Safety and Mobility Improvement Study acknowledges the lack of signage along Highway 1 for bicycle and pedestrian safety. This project rectifies this concern by adding stop signs where missing on stop-controlled side streets on Highway 1.

## R3. GRAY WHALE COVE TURN AND ACCELERATION LANES

**Description:** Install left-turn bay with painted island to provide storage area for left-turn movements in and out of Gray Whale Cove parking lot (from southbound Highway 1) and acceleration lane to turn left out of parking lot and continue southbound on Highway 1

**Source:** Highway 1 Safety and Mobility Study Improvement Phase 2 (p.37)

**Rationale:** Circulation concern – improve highway traffic flow at key destinations

**Location:** Highway 1 at Gray Whale Cove Parking Lot

**Discussion:** Turn Lanes and acceleration lanes on the highway will improve circulation and prevent turning vehicles from restricting vehicle flow, since there is only one-lane in each direction on Highway 1. Turns and acceleration lanes at Gray Whale Cove to make access to the beach safer and reduce slowdowns along Highway 1. This project is in the design phase and complements the pedestrian crossing of Highway 1 at Gray Whale Cove.

Figure 5: R3. Gray Whale Cove Turn and Acceleration Lanes Concept Diagram





#### R4. HIGHWAY 1 TURN AND ACCELERATION LANES AT 8TH STREET

**Description:** Modify striping to create left-turn lane into 8th St from Highway 1 southbound and acceleration lane out of 8th St to continue Highway 1 southbound.

**Source:** Highway 1 Safety and Mobility Study Phase 2 (p.46)

**Rationale:** Circulation concern – improve highway traffic flow and safety at key destinations

**Location:** Highway 1 at 8th Street

**Discussion:** Turn Lanes and acceleration lanes on the highway will improve circulation, safety and prevent turning vehicles from restricting vehicle flow, since there is only one-lane in each direction on Highway 1. Turns and acceleration lanes at 8<sup>th</sup> Street make access to central Montara safer and reduce slowdowns along Highway 1.

#### R5. 16TH STREET / HIGHWAY 1 INTERSECTION CONTROL

**Description:** Intersection control, with preliminary recommendation of single-lane roundabout. Final design to include pedestrian and bicycle accommodation, such as high-visibility marked crossings, curb ramps, lighting, and more.

**Source:** Connect the Coastside

**Rationale:** Traffic safety concern – poor sight distance and crossing of the California Coastal Trail and anticipated future increase in traffic volumes.<sup>36</sup>

**Location:** Highway 1 and 16th Street

**Discussion:** Connect the Coastside recommends a future intersection control at Highway 1 and 16<sup>th</sup> Street to accommodate the anticipated 1) increased traffic due to future development in Moss Beach, 2) increased traffic due to the proposed realignment of Carlos Street to 16<sup>th</sup> Street, and 3) California Coastal Trail crossing at this location if the proposed overcrossing connecting south on Carlos Street is not built. This proposed project is a companion to projects R9. Carlos Street Realignment to 16<sup>th</sup> Street; Pe1. New and Improved Crossings of Highways 1 and 92; and Pe2. Highway 1 Multimodal Parallel Trail. If intersection control at Highway 1 and 16<sup>th</sup> St is warranted in the future, Connect the Coastside recommends a roundabout due to safety benefits and community support. Roundabouts eliminate left turns by requiring traffic to exit to the right of the circle and reduce vehicular speeds, thereby improving safety at intersections. Roundabouts improve bicycle and pedestrian safety with lower vehicle speeds, shorter crossing distances and greater visibility. Funding availability for right-of-way purchase, utility relocation, and construction are key considerations in choosing the ultimate improvement, as is the outcome of a Caltrans-required Intersection Control Evaluation (ICE). Additional data will be gathered and analyzed to compare the tradeoffs among different intersection options as part of a future analysis, if a control is warranted at all. If a signal is the method of control selected, Highway 1 may need to be widened to four lanes in the vicinity of the intersection; the length of additional stacking lanes needed would be determined as part of a future operations and design study. Final design will need to accommodate large, long, and heavy vehicles which regularly access Montara Water and Sanitary District facilities on the westside of Highway 1.

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<sup>36</sup> Cypress Point Affordable Housing Community Project Draft Transportation Impact Analysis (<https://planning.smcgov.org/cypress-point-affordable-housing-community-project>)

## R6. CALIFORNIA AVENUE / HIGHWAY 1 INTERSECTION CONTROL

**Description:** Intersection control, with preliminary recommendation of single-lane roundabout. Final design to include pedestrian and bicycle accommodation, such as high-visibility marked crossings, curb ramps, lighting, and more.

**Source:** Connect the Coastside

**Rationale:** Performance standard and traffic safety concern – increase access to central Moss Beach and does not meet intersection LOS under PM and weekend peaks, and all under Maximum Buildout Forecast conditions, and meets a signal warrant in Maximum Buildout Forecast conditions.

**Location:** Highway 1 and California Avenue

**Discussion:** Connect the Coastside recommends intersection control at Highway 1 and California Ave to 1) address intersection LOS deficiencies, 2) accommodate anticipated increased traffic at this location due to future development in Moss Beach, and 3) accommodate existing vehicular traffic and multimodal connections to downtown Moss Beach. Connect the Coastside recommends a roundabout for the reasons described under project R5. 16<sup>th</sup> Street / Highway 1 Intersection Control. Similarly, the final project recommendation is dependent upon resolving final design constraints and outcomes from a future Caltrans-required ICE. If a signal is the method of control selected in the ICE process, it is likely Highway 1 will be widened to four lanes in the vicinity of the intersection; the length of additional stacking lanes needed would be determined as part of a future operations and design study. Additional design considerations and geometrics were discussed in the Moss Beach Charette (see Appendix A); these and additional feedback from Caltrans is not reflected in the concept diagrams but will be considered in future project phases.

## R7. CYPRESS AVENUE / HIGHWAY 1 INTERSECTION CONTROL

**Description:** Intersection control, with preliminary recommendation of multi-lane roundabout. Final design to include pedestrian and bicycle accommodation, such as high-visibility marked crossings, curb ramps, lighting, and more.

**Source:** Connect the Coastside

**Rationale:** Performance standard and traffic safety concern – increase access to Princeton and does not meet intersection LOS in existing or future conditions, and meets signal warrant under existing and Maximum Buildout Forecast conditions

**Location:** Highway 1 and Cypress Avenue

**Discussion:** Connect the Coastside recommends intersection control at Highway 1 and Cypress Ave to: 1) address intersection LOS deficiencies; and 2) accommodate existing vehicular traffic and multimodal connections to Princeton and destinations like Fitzgerald Marine Reserve. Connect the Coastside recommends a roundabout for the reasons described under project R5. 16<sup>th</sup> Street / Highway 1 Intersection Control. Similarly, the final project recommendation is dependent upon final design constraints and outcomes from a future Caltrans-required ICE. If a signal is the method of control selected in the ICE process, it is likely Highway 1 will be widened to four lanes in the vicinity of the intersection; the length of additional stacking lanes needed would be determined as part of a future operations and design study. Additional design and geometrics considerations were discussed in the Moss Beach Charette (see Appendix A); these and additional feedback from Caltrans is not reflected in the concept diagrams but will be considered in future project phases.

Figure 6: R6. California Avenue and Highway 1 Single-Lane Roundabout Concept Diagram

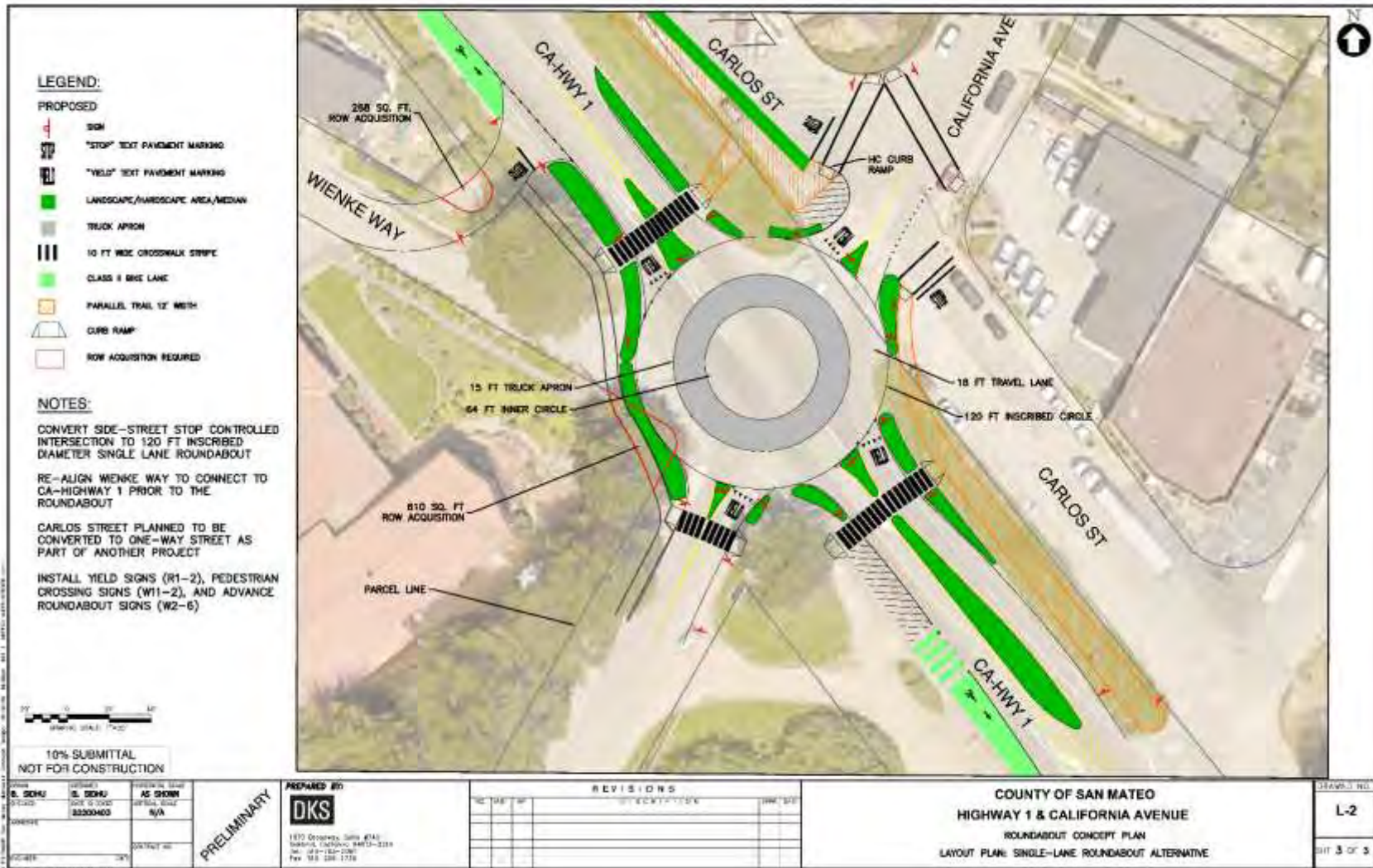
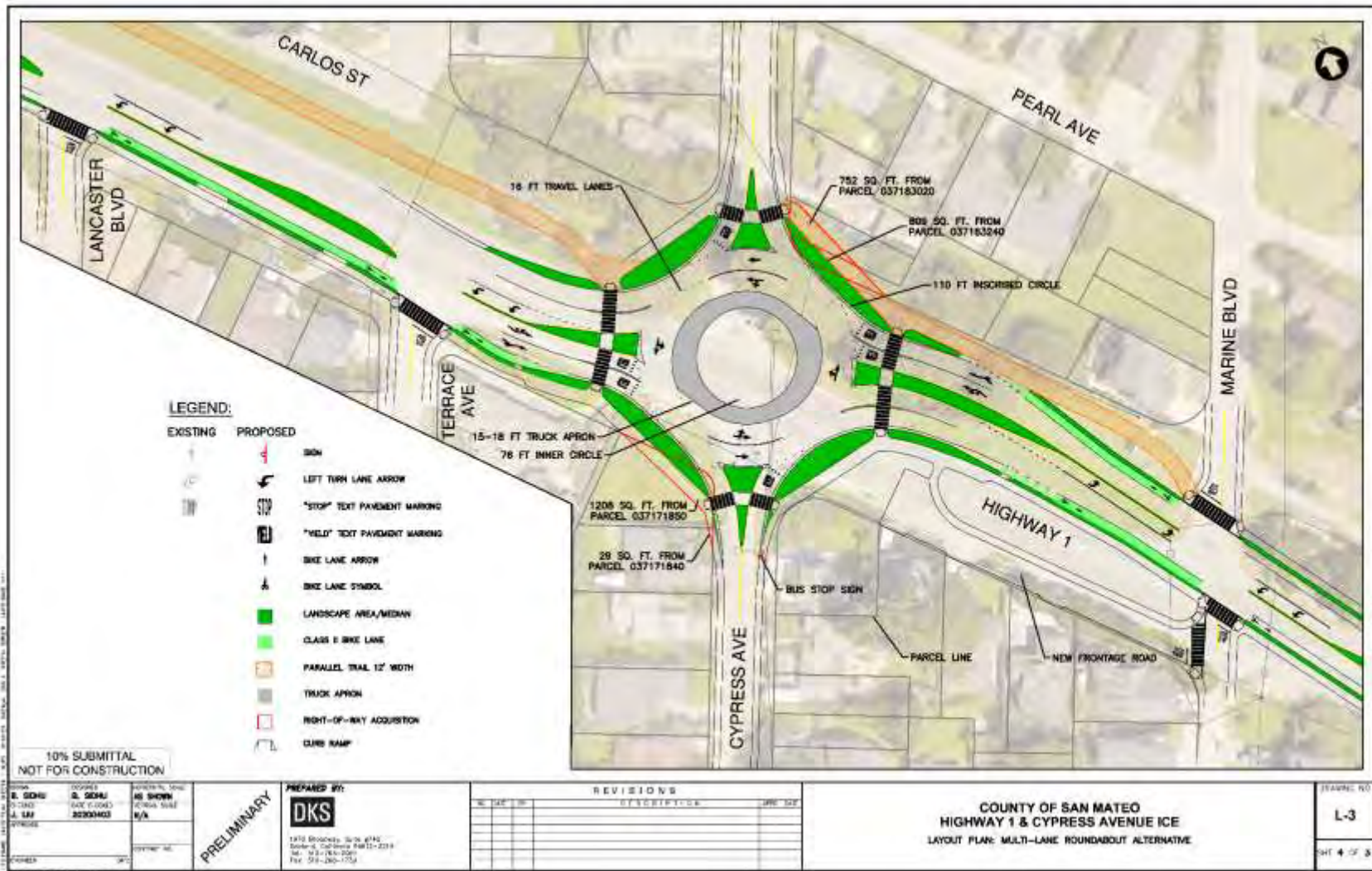


Figure 7: R7. Cypress Avenue and Highway 1 Multi-Lane Roundabout Concept Diagram



## R8. MAIN STREET TRAFFIC CALMING AND BICYCLE/PEDESTRIAN CONNECTIVITY

**Description:** Pedestrian access, traffic calming and bicycle improvements in central Montara between 7th and 11th Streets, including curb extensions, sidewalks, marked crossings, mini traffic circle, and bike route.

**Source:** Highway 1 Safety & Mobility Improvement Study Phase 2 (p.46)

**Rationale:** Traffic safety concern and bicycle and pedestrian access – reduce traffic speeds in central Montara, enhance access to local businesses, and to the Parallel Trail.

**Location:** Main Street in Montara from 7th St to 11th St

**Discussion:** The recommended project aims to address traffic safety concerns of neighborhood speeding and unsafe conditions for people walking and bicycling. The project would include curb extensions and marked crosswalks with advanced yield markings and signs at uncontrolled locations at all intersections on Main Street from 7<sup>th</sup> St to 10<sup>th</sup> St, and a mini circle at Main and 7<sup>th</sup> Street. Sidewalks (where they do not currently exist) and ADA curb ramps would be constructed on both sides of Main Street from 7th Street to 9th Street, and on the east side of the roadway from 9<sup>th</sup> Street to 11<sup>th</sup> Street, and Class III Bike Route for extent. This project is a companion project to Pe2. Highway 1 Multimodal Parallel Trail and Pe3. Midcoast alignment of California Coastal Trail, since the alignment for both trails will follow Main Street in Montara. The design of all features will accommodate SamTrans buses.

Example of an ADA-compliant curb ramp, high-visibility crosswalk, and advanced stop bar



## R9. CARLOS STREET REALIGNMENT TO 16TH STREET

**Description:** Realign northern terminus of Carlos Street at Highway 1 to connect to 16th Street.

**Source:** Connect the Coastside

**Rationale:** Traffic safety and circulation concerns – address conflicting turning movements on Highway 1 at Carlos St / 16<sup>th</sup> St and poor sight distance, improve pedestrian and bicycle circulation

**Location:** Highway 1 and Carlos Street

**Discussion:** Carlos Street provides direct access to central Moss Beach, residential areas, and will be the future alignment of the proposed Parallel Trail (Pe2). The recommended project aims to: 1) address the poor sight distance for turning vehicles from Carlos Street onto Highway 1 (northbound or southbound); 2) eliminate the current conflict of left-turning vehicles from Highway 1 southbound to Carlos Street and Highway 1 northbound to Lighthouse Drive; 3) improve future circulation by directing vehicles to a future controlled intersection (16<sup>th</sup> St), and 4) improve bicycle and pedestrian connections via the Parallel Trail. The project will close the terminus of Carlos Street with a guard rail, acquire right-of-way, and extend Carlos Street north to 16th Street (western edge of realigned right of way will be approximately 150 feet from eastern paved edge of Highway 1). Access to Carlos Street at its northern terminus will be via 16th Street and the future Highway 1 and 16th Street intersection control (R5). Final design will need to address utility impacts, as high-pressure sewer pipes are in the vicinity of 16<sup>th</sup> Street and Highway 1.

Informal gravel road connecting Carlos Street to 16<sup>th</sup> Street



## R10. CARLOS STREET TRAFFIC CALMING

**Description:** Striping, signage, and completion of missing sidewalk, with conversion to one-way to accommodate the Parallel Trail and calm traffic in central Moss Beach.

**Source:** Highway 1 Safety & Mobility Improvement Study Phase 2 (p.58-59), Connect the Coastside

**Rationale:** Traffic safety, circulation, and deficiency concern – addresses vehicular speeding in central Moss Beach and accommodating Parallel Trail, which addresses deficiencies in delay index on Highway 1

**Location:** Carlos Street between Etheldore Street/Vallemar Street and Vermont Avenue

**Discussion:** The recommended project aims to: 1) address vehicular speeding in central Moss Beach, 2) accommodate the Parallel Trail to address the forecasted deficiency in the delay index, 3) address traffic circulation and safety concerns due to the forecasted intersection control at California Avenue and Highway 1; 4) promote walking and bicycling to the area; and 5) increase the parking supply by defining parking spaces. The project would convert Carlos Street to one-way southbound from Etheldore Street to California Avenue, and change the orientation of existing angled car parking to face south. The project would also change the orientation of Carlos St between California and Vermont Avenues to one-way northbound to accommodate the proposed roundabout at California Avenue and Highway 1 (R6). The project would designate parallel car parking spaces along the west side of Carlos Avenue, add stop signs on Virginia and Vermont Avenues southbound, east of Carlos St, and complete the missing sidewalk between Etheldore Street and California Avenue (near restaurant). The project includes striping crosswalks at Carlos Street and California Avenue.

Carlos Street, south of Etheldore Street





## R11. HIGHWAY 92 / HIGHWAY 35 (EAST, LOWER) INTERSECTION IMPROVEMENTS

**Description:** Intersection improvements to facilitate pedestrian and bicycle crossings and improve signal timing.

**Source:** Connect the Coastside

**Rationale:** Performance standard and traffic safety concern – add appropriate pedestrian and bicycle infrastructure to allow for safe crossings and improve signal timing to address deficiencies

**Location:** Highway 92 and Highway 35 at eastern, lower intersection

**Discussion:** The existing signalized intersection of Highways 92 and 35 (eastern, lower) near I-280 does not have any marked crossings or infrastructure to support walking and bicycling and connect the Crystal Springs Trail on opposite sides of Highway 92. Under projected conditions, this intersection will not meet intersection level of service performance standards. The proposed project would improve the intersection, including marked pedestrian crossings, pedestrian signal heads, ADA curb ramps, sidewalk to connect to the trail, and modified signal timing.

Example of a pedestrian countdown signal head



## R12. HIGHWAY 92 / HIGHWAY 35 (WEST, UPPER) INTERSECTION CONTROL

**Description:** Add intersection control and crossing improvements to facilitate connections for trail users and turning movements for motorists.

**Source:** Connect the Coastside, SFPUC Southern Skyline Ridge Trail Extension Project

**Rationale:** Performance standard, traffic safety and circulation concerns - add appropriate pedestrian and bicycle infrastructure to allow for safe crossings and add intersection control to address projected deficiencies.

**Location:** Highway 92 and Highway 35 at western, upper intersection

**Discussion:** A section of the Bay Area Ridge Trail currently runs north of this intersection and the San Francisco Public Utilities Commission (SFPUC) released a draft Environmental Impact Report (DEIR) in June 2020 for the Southern Skyline Boulevard Ridge Trail Extension<sup>37</sup>, which would extend the Bay Area Ridge Trail north and south of Highway 92. As described in the SFPUCs DEIR, Caltrans has explored various options to address existing congestion at Highway 92 and Highway 35 (west, upper) due to level of service F for vehicles northbound on Highway 35 turning left to westbound Highway 92 during weekday peak hours. Options explored include a grade separated interchange intersection, traffic signals, roundabout, marked crossing with flashing beacon, and bridge crossing; however, there have been concerns with conceptual designs due to speeds, sight distances, and topography as well as the environmental impacts of alternatives considered.

Connect the Coastside's traffic analysis based on the Maximum Buildout Forecast shows that in the future, the intersection of Highway 92 and Highway 35 (western, upper) would not meet intersection level of service standards, so intersection control would likely be needed in the future. For the purposes of the Mitigated Transportation Performance analysis on p.145, Connect the Coastside assumes implementation of a traffic signal, pending an Intersection Control Evaluation, but recognizes the challenges associated with this design. Due to the complexity of this location and need for additional study to accommodate trail users, pedestrians, bicyclists, transit riders, and turning vehicles, and in addition environmental and right of way constraints, Connect the Coastside recommends that Caltrans, San Mateo County, SFPUC, and others lead a collaborative community process to formulate a detailed recommendation and execute an agreement on the design, funding, and construction of the preferred solution(s).

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<sup>37</sup> Draft Environmental Impact Report for proposed SFPUC Southern Skyline Boulevard Ridge Trail Extension Project available at <https://ceganet.opr.ca.gov/1998082030/10>

### R13. HIGHWAY 92 TRUCK SIGNS

**Description:** Add signage to Highway 92 to direct trucks to stay in the right lane

**Source:** Connect the Coastside

**Rationale:** Circulation concern

**Location:** Highway 92 prior east of Pilarcitos Creek (37.493197, -122.380490), and before the start of the retaining wall section between Pilarcitos Creek and SR-35 (37.491298, -122.375909)

**Discussion:** Trucks typically travel at slower speeds and this low-cost recommendation can help improve circulation and reduce delay in Highway 92 by having trucks stay to the right, allowing other vehicles to pass.

*Figure 8: Trucks Use Right Lane Signage (R4-5)*



### R14. HIGHWAY 92 LEFT-TURN POCKETS

**Description:** Provide left-turn pockets at local businesses with high traffic on Highway 92.

**Source:** Connect the Coastside

**Rationale:** Circulation and traffic safety concern – promote efficient highway traffic flow so turning vehicles do not block the single-lane of travel.

**Location:** Highway 92 at key activity generators such as: Half Moon Bay Nursery (11691 San Mateo Rd), Sun Studios Garden Center (12001 San Mateo Rd), Lemos Farm / Repetto's Florist (12320 San Mateo Rd), Pastorino Farms (513 San Mateo Rd), Repetto's (381 San Mateo Rd), and Spanish Town (276 San Mateo Rd).

**Discussion:** Left-turn pockets at major businesses along Highway 92 can improve business access and promote safe and efficient highway traffic flow by preventing turning vehicles from restricting flow. The recommended locations are subject to change based on future demand. Some locations may require highway widening, grading/fill, utility relocation, and/or retaining walls.

## PEDESTRIAN (PE)

### PE1. NEW AND IMPROVED CROSSINGS OF HIGHWAYS 1 AND 92

**Description:** Improve existing and add new pedestrian crossings on Highways 1 and 92, including: new overcrossing south of the Highway 1 and Carlos Street intersection, additional striping at existing crossings at Highway 1 and Coronado Street intersection, additional flashing beacon at Highway 1 and Virginia Ave, and new marked crossings with flashing beacons at other locations.

**Source:** Highway 1 Safety and Mobility Improvement Study Phase 2 (p.24-27), Highway 1 Safety & Mobility Improvement Study Phase 2 (p.51), and Connect the Coastside.

**Rationale:** Traffic safety, circulation, and accessibility concerns – consolidate pedestrian crossing locations based on key destinations and improve existing crossing to create more predictable pedestrian crossings and improve safety.

**Location:**

- New and improved marked pedestrian crossings with flashing beacons and signage at uncontrolled (no signal, roundabout, or stop sign) locations on Highway 1 at: north of Gray Whale Cove Parking lot,<sup>38</sup> Montara Mountain Trailhead/McNee Ranch Parking Lot, Montara State Beach (1<sup>st</sup> St), 2nd St, 7th St, Virginia Ave (improve existing)<sup>39</sup>, Capistrano Road (N), 2 locations to-be determined between Sam's Chowder House and Coronado St, Medio Ave, and Mirada Rd; Highway 92 at Pilarcitos Creek Road and Pilarcitos Quarry Road
- New pedestrian and bicycle overcrossing of Highway 1 south of Carlos Street
- Improve existing controlled crossing<sup>40</sup> at Highway 1 and Coronado Street

**Discussion:** Without safe and accessible crossings, walking and taking transit for transportation becomes unsafe and challenging. There is one marked crossing at Highway 1 and Virginia Avenue that is uncontrolled with no flashing beacon, and otherwise no marked crossings for the nearly six-mile stretch between the Tom Lantos Tunnel and Capistrano Road (south). There are no marked pedestrian crossings of Highway 92.

Marked pedestrian crossings must be accompanied with additional infrastructure for safety. Connect the Coastside recommends using pedestrian hybrid overhead beacons or Rectangular Rapid Flash Beacons (RRFBs) to accompany any uncontrolled marked pedestrian crossing. Additional infrastructure, such as raised medians per the Highway 1 Safety and Mobility Study, should be evaluated as part of future detailed design at the project-level. Crossing locations are recommended based on pedestrian demand, including: access to northbound or southbound

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<sup>38</sup> As of October 2021, the County is working with Caltrans and the San Mateo County Transportation Authority to complete the design and environmental review for the Gray Whale Cove pedestrian crossing and turn lanes (Project R3)

<sup>39</sup> As of October 2021, Caltrans is planning to add rectangular rapid flashing beacons at the existing Virginia Avenue marked crossing

<sup>40</sup> Note: Connect the Coastside recommends improvements to the Highway 1 and Capistrano Road (S) intersection, which is listed separately as project Pe8 as it includes additional infrastructure recommendations

bus stops on either side of Highways 1 and 92, connecting trailheads and/or recreational destinations to their adjacent parking areas or neighborhood, and access to central business districts in each community.

Example of both RRFB and overhead Pedestrian Hybrid Beacon in San Anselmo, California



Initially recommended by the Highway 1 Safety and Mobility Study (p.51), the proposed overcrossing of Highway 1 south of Carlos Street would create a continuous and safe crossing for the California Coastal Trail across Highway 1, connecting with the Multimodal Parallel Trail. The natural grade on either side of Highway 1 would likely make providing the overcrossing cost less than at other locations by reducing ramps necessary to provide appropriate grades for accessibility.

Highway 1 and Coronado Street is an existing signalized location that includes one marked crossing of the highway. The proposed project would improve the crossing by adding high-visibility crosswalk markings on all legs, advanced stop bars, pedestrian signal heads, and signage. Either sidewalk should be added on the westside of Highway 1 to connect the two crossings or a direct paved connection from the new southern crossing to the existing Coastal Trail.

## PE2. HIGHWAY 1 MULTIMODAL PARALLEL TRAIL

**Description:** A continuous walking and bicycling facility along the east side of Highway 1 consisting of Class I paths, sidewalks, and Class III Bike Route, with marked crossings of streets intersecting streets with the path.

**Source:** Highway 1 Safety and Mobility Improvement Study Phase 2 (p.23, 25-27), Connect the Coastside

**Rationale:** Performance standard deficiency for delay index, traffic safety concerns, and multimodal accessibility

**Location:** Primarily Class I Bicycle and Pedestrian Path on the east side of Highway 1 from Mirada Road to 2<sup>nd</sup> Street

in Montara, with Class III Bike Route with Sharrows and pedestrian path (sidewalk or trail) on Main St from 2<sup>nd</sup> to 11<sup>th</sup> and Carlos St for a section between Sierra St and Admiral St (see map).

**Discussion:** The Midcoast Multimodal Parallel Trail (Parallel Trail) will provide a continuous, car-free way to safely access Midcoast communities, town centers, schools and recreational destinations without having to travel on the highway. The Multimodal Trail was conceptualized in the community-developed Highway 1 Safety and Mobility Improvement Study in Phase 1. The Trail will be separated from the highway and have minimal interaction with vehicular traffic allowing it to serve residents of all ages and abilities. The Trail will span from Montara south to Miramar where it will connect with the Naomi Patridge Trail in Half Moon Bay. The Multimodal Parallel Trail segment from Coronado to Mirada Road (approximately 0.8 miles) has been funded and construction is expected to begin in 2021 and will serve as a safe route for students attending El Granada Elementary School and the Wilkinson School.



Naomi Patridge Trail in Half Moon Bay

By providing residents the opportunity to walk and bicycle throughout the urbanized Midcoast, congestion on the highway should improve. Providing a high-quality continuous facility also serves to meet a performance standard deficiency for the delay index for Highway 1. The Parallel Trail would primarily be a Class I Bicycle and Pedestrian Path (12'-wide path with decomposed granite shoulders), with a combination of Class III Bike Route and sidewalks in locations where the Class I Path is not feasible to implement due to right of way constraints. Where the trail crosses side streets, marked crossings and ramps would be provided. The section of Highway 1 between 14<sup>th</sup> Street and 16<sup>th</sup> Street is narrow and may require bridging to provide a Class I Path. Additional design considerations were discussed at the Moss Beach Charette (Appendix A), with the presence of endangered species between Highway 1 and Carlos Street in Moss Beach as a key consideration for the alignment of the trail due to the challenges of relocation and/or mitigation for impacts.

### Pe3. MIDCOAST ALIGNMENT COMPLETION OF CALIFORNIA COASTAL TRAIL

**Description:** Recommended California Coastal Trail alignment and improvements in the Midcoast including: wayfinding signage, Class I Path, Class III Bike Route, sidewalks, trails, and paths.

**Source:** Highway 1 Safety and Mobility Improvement Study Phase 2 (p.24-27), Connect the Coastside

**Rationale:** Traffic safety and multimodal circulation concern – implementing appropriate signage, marked crossings, sidewalks, bike routes, and other infrastructure to define the alignment and access points for the California Coastal Trail, improving circulation and safety for this important Midcoast destination.

**Location:** Various streets and trails between Point San Pedro (north of Devil's Slide Trail) and Half Moon Bay Coastal Trail

**Discussion:** The California Coastal Trail (CCT) is envisioned as a continuous, interconnected public trail system spanning over 1,200 miles from Oregon to Mexico made up of a network of public trails, streets, and bikeways for walkers, bikers, equestrians, wheelchair riders and others along the coastline. In the Midcoast, the planned CCT route is approximately 10 miles long from Point San Pedro to Half Moon Bay. Some sections of the Midcoast CCT trail alignment have been built and each section's configuration varies considerably. In some areas, it traverses roadways on the landside of Highway 1, such as in Montara where it is designated on Pedro Mountain Road, and in others it is an earthen blufftop hiking trail, such as in Pillar Point Bluff, a San Mateo County Park.

The CCT is and continues to be an important destination for residents and visitors. Defining a preferred alignment and adding infrastructure to support trail use and access (e.g., marked crossings, sidewalks, and paths where needed) will create safer conditions for trail users and more predictable conditions for motorists. Connect the Coastside recommends a Midcoast CCT alignment as shown in the map below, with an emphasis on completing sections that overlap with multimodal transportation needs (south of Highway 1 and 1<sup>st</sup> Street). Where the alignment of the trail is on local roads, Connect the Coastside recommends a combination of decomposed granite paths (if sidewalks are not present), with Class III Bikeway and wayfinding signage. In some areas, new paths would need to be constructed (such as connecting the two ends of Vallemar Street in Moss Beach). In some cases, the alignment overlaps with other recommended projects (such as the Multimodal Parallel Trail (Pe2)); recommended improvements are described in those projects. A westside path (or sidewalk) along Highway 1 from 10<sup>th</sup> St to Seacliff Court and 4<sup>th</sup> St to Montara State Beach should be considered as an addition to the CCT alignment to provide access to scenic vistas, adding crossing infrastructure and signage as appropriate. Alternate alignments of the CCT from path erosion due to sea level rise would need to be considered in a future planning study recommended by this Plan.

Map 17: Recommended California Coastal Trail (Pe3) and Multimodal Parallel Trail (Pe2) Alignments and Pedestrian Crossings (Pe1)





Figure 9: Before and after visualization of recommended improvements at Highway 1 and 1st Street in Montara



AFTER – End of Multimodal Parallel Trail and marked crossing of Highway 1 to connect to continued alignment of California Coastal Trail



Mock-up courtesy of Christopher Hurte

*Note: visualization is for conceptual and illustrative purposes only*

#### PE4. HIGHWAY 1 SIDEWALKS IN MOSS BEACH AND MONTARA

**Description:** Add sidewalks in central Montara and Moss Beach in front of businesses located on Highway 1 and marked crossings of side street intersections with Highway 1

**Source:** Connect the Coastside

**Rationale:** Traffic safety concern and multimodal access – create a safe way for pedestrians to access local businesses and reduce vehicular/pedestrian conflicts

**Location:** Highway 1 between 7th Street and 9th Street, and California Avenue and Marine Boulevard.

**Discussion:** There are local businesses that front Highway 1 in Moss Beach and Montara that are unsafe to access by walking due to a lack of sidewalk or pathway and many driveways access points. Connect the Coastside recommends adding sidewalks on the east side of Highway 1 between 7<sup>th</sup> and 9<sup>th</sup> Streets and the west side of Highway 1 between California Avenue and Marine Boulevard, consolidating driveways where feasible and adding ADA-compliant curb ramps. Walkways should be located on the outer edge of the Caltrans right-of-way (away from Highway 1). These design strategies will encourage walking to local businesses, increase pedestrian safety and visibility, and minimize vehicular/pedestrian conflicts. This project should be implemented concurrently with R1. Highway 1 Shoulder Treatment.

#### PE5. CENTRAL MOSS BEACH BICYCLE AND PEDESTRIAN IMPROVEMENTS

**Description:** Add sidewalk on west/north sides on Etheldore Street (north of California Avenue) where missing and on California Avenue (south of Etheldore Street) to connect to existing sidewalks. Add Class III Bike Route on California Avenue from Etheldore Street to Highway 1.

**Source:** Connect the Coastside

**Rationale:** Traffic safety concern and multimodal access – create a safe way for pedestrians to access local businesses and to transit stop, and reduce vehicular/pedestrian conflict

**Location:** California Avenue from Etheldore Street to Highway 1 and Etheldore Street, north of California Avenue.

**Discussion:** Central Moss Beach is an important destination, accessed primarily from Highway 1 at Vallemar Street and California Avenue. There are discontinuous biking and walking connections from the neighborhood to this destination and no paved waiting area for the bus stops at California Avenue and Etheldore Street. This project would improve multimodal access in this area of Moss Beach and reduce vehicular and pedestrian conflict by providing continuous sidewalks.

Class III Bike Route with Sharrows on Carlos Street in Moss Beach



## PE6. MONTARA SAFE ROUTES TO SCHOOL

**Description:** Various improvements to make it easier to walk and bike to Farallone View Elementary School, including sidewalks on one side of the street, Class III Bike Routes, improved crossings, bicycle parking and stop signs.

**Source:** Connect the Coastside and Farallone View Walk and Bike Audit Final Report (2014)

**Rationale:** Traffic safety concern, circulation, and multimodal access; add appropriate infrastructure to increase the number of students walking and bicycling to school to improve peak hour circulation and congestion issues

**Location:** 5<sup>th</sup> Street from Main Street to Le Conte Avenue, Le Conte Avenue from 6<sup>th</sup> Street to Kanoff Avenue, and 6<sup>th</sup> Street from Le Conte Avenue to Sunshine Valley Road

**Discussion:** Parents dropping off and picking up their children from school can contribute to peak hour traffic congestion and neighborhood safety concerns, such as children crossing the street at various locations. Safe Routes to School (SRTS) is a comprehensive approach to enable and encourage students to walk or bicycle to school. An integral part of SRTS is making physical improvements to increase student safety. In 2014, the San Mateo County Office of Education through its SRTS program sponsored a walk and bike audit of Farallone View. The results of this report are available at: [http://cusd-hmb.org/CUSD\\_file/SR2S\\_FV-Walk-Audit\\_3-17-14.pdf](http://cusd-hmb.org/CUSD_file/SR2S_FV-Walk-Audit_3-17-14.pdf)

Connect the Coastside recommends implementing key recommendations from the audit, including continuous walking and bicycling infrastructure to Farallone View (to connect to existing on north side of 5<sup>th</sup> St from Farallone Ave to East Ave), marked crossings where missing on route, all-way stop at Le Conte/5<sup>th</sup> and on 5<sup>th</sup> at East Ave, ramps, and Class III Bike Routes.

Map 18: Pe6. Montara Safe Routes to School



## Pe7. EL GRANADA SAFE ROUTES TO SCHOOL

**Description:** Various improvements to make it easier to walk and bike to El Granada Elementary School and the Wilkinson School, including sidewalks, Class III Bike Routes, traffic calming, and improved crossings.

**Source:** Connect the Coastside

**Rationale:** Traffic safety concern, circulation, and multimodal access – add multimodal infrastructure to increase the number of students walking and bicycling to school to improve peak hour circulation and congestion issues

**Location:** Avenue Alhambra, Obispo Road from Avenue Alhambra to Coronado Street, and Coronado Street from Highway 1 to Avenue Alhambra

**Discussion:** As described in project Pe6, Connect the Coastside recommends continuous walking and bicycling infrastructure to support Safe Routes to School. This project complements the Parallel Trail improvements by recommending continuous sidewalks, Class III Bikeways, and crossing improvements from the northern area of El Granada to walk to the Wilkinson School and El Granada Elementary School. The proposed improvements would also enable better access to transit stops. Crossing improvements would be subject to further detailed design and are recommended to include high-visibility marked crossings, advanced stop bars, ADA curb ramps, and painted islands at some locations. Connect the Coastside recommends engaging in SRTS-efforts with a walk and bicycle audit to confirm the approach.

Map 19: Pe7. El Granada Safe Routes to School



## PE8. CAPISTRANO ROAD (SOUTH) INTERSECTION IMPROVEMENTS

**Description:** Improve intersection for pedestrian access including high visibility crosswalks with advanced stop bars, pedestrian refuge islands, MUTCD R10-15 Signs, guide signs, and pork chop island.

**Source:** Connect the Coastside and Plan Princeton (draft)

**Rationale:** Traffic safety concern and multimodal access – enhance pedestrian and bicycle connectivity between Princeton and El Granada

**Location:** Highway 1 and Capistrano Road (south)

**Discussion:** The intersection of Capistrano Road (S) and Highway 1 is currently signalized and is not forecasted to be deficient under Maximum Buildout Forecast conditions for intersection LOS but could be improved for people walking and bicycling since it is an important entry point to both Princeton and El Granada and connects the two. The proposed project would: improve pedestrian and bicyclist visibility by adding high visibility marked crossings and signage; create safe spaces for pedestrians and shorten crossing distances with pedestrian refuge islands and pork chop island; and improve circulation by adding wayfinding signage. The conceptual design may change with further community input on Plan Princeton. This project complements project B3. Capistrano Road Bikeways.

Figure 10: Highway 1 and Capistrano Road (S) Conceptual Improvements



## BIKEWAYS (B)

### B1. HIGHWAY 1 BIKEWAY

**Description:** Class II Bike Lanes on Highway 1

**Source:** Highway 1 Safety and Mobility Improvement Study Phase 2 (p.24-27), Unincorporated San Mateo County Active Transportation Plan (Draft), C/CAG Comprehensive Bicycle and Pedestrian Plan (Draft)

**Rationale:** Traffic safety concern, multimodal access, and performance standard deficiency – provide a designated bikeway for confident cyclists traveling longer distances and define consistent lane widths on Highway 1 with the restriping

**Location:** Highway 1 from Tom Lantos Tunnel to Mirada Road (County boundary)

**Discussion:** Although there are no designated and continuous bicycle facilities connecting Midcoast communities on Highway 1, it continues to serve as an important bikeway for commuting and events such as the AIDS/LifeCycle fundraiser. Various past and ongoing planning efforts have recommended Class II Bike Lanes along Highway 1 to create safer cycling conditions and encourage bicycling for transportation, especially for cyclists going long distances and traveling at higher speeds. The recommended Class II Bike Lanes would provide an alternate bikeway to the Parallel Trail and could help address the delay index performance standard deficiency under Maximum Buildout Forecast conditions. Caltrans has a State Highway Operation and Protection Program project (SHOPP EA# 0Q130) that will involve repaving certain sections of Highway on the Midcoast. The project will stripe Class 2 bike lanes were feasible with locations to be determined in subsequent project phases.



Photo of cyclists on Highway 1 in the Midcoast courtesy of AIDS/LifeCycle

## B2. AIRPORT STREET BIKEWAY AND PRINCETON CONNECTIONS

**Description:** Bicycle and pedestrian connections from Moss Beach to Princeton via Cypress and Airport St.

**Source:** Highway 1 Safety and Mobility Improvement Study Phase 1, Plan Princeton (Draft), Unincorporated San Mateo County Active Transportation Plan (Draft), and Connect the Coastsides.

**Rationale:** Traffic safety concern and multimodal access – provide traffic calming measures and designated bikeways and walkways to connect residents and visitors to key destinations in Princeton and reduce vehicular speeds

**Location:**

- Cypress Ave from Highway 1 to Airport St: Class III Bike Route with pedestrian path on north side
- Airport St from Cypress Ave to Cornell Ave options: (1) Class I Path on east side, (2) Class II Bike Lanes with sidewalk on west side, or (3) Class III Bike Route with sidewalk on west side
- Class III Bike Route on Cornell Ave from Airport St to Broadway, and Broadway from Cornell Ave / California Ave to Prospect Way.

**Discussion:** Cypress Avenue and Airport Street are bypasses to Highway 1 and connect to destinations like Princeton, Fitzgerald Marine Reserve, Pillar Point Bluff Park, and SamTrans Route 17. Airport Street provides access to Pillar Ridge Manufactured Housing Community and abuts the Half Moon Bay Airport. During Connect the Coastsides’ 2020 community engagement, stakeholders shared their concerns around traffic safety including excessive speeding and lack of continuous walking or bicycling facilities. There are no sidewalks (except in front of Pillar Ridge) and shoulders are often blocked by parked cars, making it unsafe for residents to walk the short distance to Princeton. Residents on Cypress Avenue started Safe Streets Coastsides Change.org petition to address these concerns and has over 300 signatures as of October 2021<sup>41</sup>. Connect the Coastsides recommends a future planning study to engage residents and other stakeholders, including local business owners, Department of Public Works, Federal Aviation Administration, SamTrans, and County Parks, to determine the design of bicycle and pedestrian facilities. Preliminary recommendations for cost estimate purposes are described under “Location” above.

SamTrans bus stop across from Pillar Ridge Manufactured Housing Community (Photo courtesy of Google)



<sup>41</sup> Safe Streets Coastsides Change.org petition as of 10/20/21 - <https://www.change.org/p/county-of-san-mateo-safe-streets-coastsides-4bed45c1-9f38-4480-b1cc-a1b7e901c6c2?redirect=false>

### B3. CAPISTRANO ROAD BIKEWAY

**Description:** Bikeway designations on Capistrano Road, including Class III Bike Route with paved shoulders with sharrows.

**Source:** Highway 1 Safety and Mobility Improvement Study, Plan Princeton (Draft), Unincorporated San Mateo County Active Transportation Plan (Draft)

**Rationale:** Traffic safety concern and multimodal access – provide a designated bikeway to connect residents and visitors to key destinations in Princeton and reduce vehicular speeds

**Location:** Capistrano Road from Highway 1 (northern end) to Avenue Alhambra:

- Highway 1 north to Prospect Way: Class III Bike Route with Paved Shoulders
- North of Prospect Way to Highway 1 south: Class III Bike Route with Sharrows
- Highway 1 south to Avenue Alhambra: Class II Bike Lanes

**Discussion:** Capistrano Road connects those traveling southbound on Highway 1 directly into Princeton and is a particularly important connection for cyclists and those who may want to access any future Denniston Creek trail facilities at Capistrano Road (N) and Highway 1. It allows Highway 1 southbound cyclists to avoid turning at the intersection at Capistrano Road (S) and bike on a lower-volume street. Providing a designated bikeway will increase access to local businesses and increase the number of trips taken by bicycle, contributing to reduced congestion.

### B4. HIGHWAY 92 BIKEWAY

**Description:** Bikeway designation on Highway 92 of Class III and widening shoulders where feasible

**Source:** Connect the Coastside, Unincorporated San Mateo County Active Transportation Plan (Draft), and C/CAG Comprehensive Bicycle and Pedestrian Plan (Draft)

**Rationale:** Traffic safety concern and circulation – increase safety for bicyclists traveling on Highway 92 and shoulders for breakdowns and passing in emergencies

**Location:** Highway 92 between Half Moon Bay (County boundary) and Canada Road

**Discussion:** Highway 92 is the primary connection between the coastside and the bayside, and provides access to trailheads and local businesses, and SamTrans Route 294 bus stops. Aside from transit, there are no multimodal connections along Highway 92 and no alternate bikeways connecting the San Mateo County bayside to coastside. Providing a separated bikeway along Highway 92 would likely require extensive grading and fill and impacts to environmental resources. Connect the Coastside recommends providing widened shoulders and Class III Bike Route were feasible to facilitate multimodal connections to existing bus stops, local businesses, and the anticipated increased demand for cycling to and from the Bay Area Ridge Trail.



## B5. BICYCLE PARKING

**Description:** Install short-term bicycle parking at key destinations throughout the Midcoast

**Source:** Connect the Coastside and Unincorporated San Mateo County Active Transportation Plan (Draft)

**Rationale:** Multimodal accessibility – provide adequate bicycle parking as an end-of-trip facility to encourage more bicycling.

**Location:** Various locations throughout the Midcoast at key destinations including central areas of Montara, Moss Beach, El Granada, Princeton, and Miramar; trailheads; parks; schools; public facilities and transit stops.

**Discussion:** Secure bicycle parking as a key element of the bicycle network especially at end-trip locations. Two common types of bicycle parking are

- Inverted U-racks, which are typically used for short-term trips and support the bicycle to stand upright at two points, and
- Bicycle lockers, which are typically used for longer-term trips (such as full-day of work) and enclose the bicycle completely.

Map 20: Recommended Bicycle Parking



The proposed project would add short-term bicycle parking at all Midcoast destinations to make bicycling a viable form of transportation, much like vehicular parking is needed to make travel by car easy. The County can partner employers, such as Seton Coastside Medical Center to encourage the implementation of long-term bicycle parking.

## TRANSIT (T)

### T1. TRANSIT STOP IMPROVEMENTS

**Description:** Work with the San Mateo County Transit District, Caltrans, and other partners to provide various amenities at existing transit stops to increase safety and comfort, including, where applicable: benches, shelters, signage, and lighting.

**Source:** Connect the Coastside

**Rationale:** Multimodal access and transit stop guidelines – providing greater transit stop amenities could encourage more residents to take transit

**Location:** Midcoast bus stops, primarily for SamTrans Route 17

**Discussion:** As described in the Transit section of Existing Conditions (page 77), bus frequencies are between 30 and 120 minutes and nearly all bus stops in the Midcoast are a pole with a sign with no additional amenities. Connect the Coastside recommends improving all transit stops with ADA-accessible boarding zone, signage and benches; project maps denote priority bus stops in need of improvements. Cost estimates assume that 95% of all stops require upgrades. Shelters and lighting should be prioritized at high ridership locations, especially at employment sites and in central business areas (about 5% of stops). Providing amenities can make waiting for transit less onerous and could support additional ridership in the future. Older and disabled persons are more likely to be transit-dependent, making benches critical amenities for health and safety.

## T2. RECREATIONAL MICROTRANSIT

**Description:** Work with the San Mateo County Transit District and other partners to implement recreational microtransit service that connects 1) Hillsdale Caltrain Station to the Midcoast via Highway 92, continuing north to Gray Whale Cove and returning, and 2) Colma BART to Highways 1 and 92 intersection and returning.

**Source:** Connect the Coastsides and previous Coastsides Beach Shuttle<sup>42</sup>

**Rationale:** Performance standard deficiency and multimodal access – provide alternate means for those living outside of the Midcoast to visit and to travel without a car to key coastsides destinations

**Location:** Highways 1 and 92

**Discussion:** A portion of Midcoast congestion leading to projected deficiencies is due to regional growth and visitors to the coast during weekend peak periods. Public transportation to and along the coastsides is limited and does not provide the flexibility or frequency necessary to make it viable for visitors outside of the Midcoast. In 2017, the San Mateo County Transit District funded a Coastsides Beach Shuttle program, which connected SamTrans Route 17 bus stops in Half Moon Bay to other destinations such as the Fitzgerald Marine Reserve. Connect the Coastsides recommends expanding upon this by providing weekend recreational microtransit (e.g., passenger vans, shuttle, or other) to improve weekend peak hour conditions. Ultimate service type, route, and stops should be coordinated with SamTrans service changes and look for opportunities to connect bicyclists to microtransit service. For example, if providing a fixed route service, connecting to the Bay Trail on the baysides.

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<sup>42</sup> <https://cmo.smcgov.org/local-shuttle-bus-coast-san-mateo-county-transportation-authority>

### T3. INCREASED MIDCOAST BUS SERVICE

**Description:** Work with the San Mateo County Transit District, Commute.org, and other partners to provide additional bus service on existing lines serving the Midcoast, new commute express service between the Half Moon Bay and the Colma BART station, and align transit schedules to support student travel needs.

**Source:** Connect the Coastside

**Rationale:** Additional service will encourage more residents to take transit for everyday transportation and support the implementation of project T2 to address first/last mile connections.

**Location:** Highway 1, SamTrans Route 17

**Discussion:** Although current SamTrans ridership does not support expansion to bus service, addressing traffic congestion and climate change will necessitate a significant reduction in trips by automobile and a dramatic increase in transit trips. Connect the Coastside recommends working with regional partners, including the Transit District, Commute.org, C/CAG, and others, to expand transit service on the Midcoast. This includes increasing weekday peak hour frequencies of Route 17 to 20 minutes, aligning service with student travel needs, and increasing weekend frequencies. This project would also increase the frequency of buses that travel to and from the coastside. Lastly, the project would create an express service from the intersection of Highways 1 and 92 to Colma BART station and back during the weekday peak periods. Providing express service should be coordinated with the establishment of necessary park and ride locations; Connect the Coastside does not recommend any specific locations. This is an aspirational project, necessary to achieve the County's greenhouse gas emission targets and to improve mobility in the Midcoast for residents and visitors alike.

## PARKING (PA)

The lack of parking capacity for weekday commuters and the large amount of weekend recreational parking demand discourages commuter and visitor use of transit, reducing service viability and results in a spillover of recreational demand into community parking areas. The San Mateo County Coastside Access Study conducted in 2015 demonstrates a need for additional parking in the Midcoast.

The Local Coastal Program recommends formalized parking with clear signage for visitors and park and ride users, and includes several policies related to parking:

- 2.52(b) to provide public access parking that is not time restricted and signage indicating parking is available.
- 2.54 to encourage the use of transit by developing a park and ride facility near the intersection of Highways 1 and 92.
- 10.22(c) details specific criteria when developing or relocating new off-street parking facilities for shoreline access areas, such as preference for sites that are currently used for informal shoreline access parking.
- Table 10.6 which includes site specific recommendations for shoreline destinations, which specifies developing or expanding parking at locations including Montara State Beach, Point Montara, at Vallemar Street and Juliana Avenue, Pillar Point Harbor, Princeton Beaches, and others.

Connect the Coastside recommends improvements as stated below and the need for a future comprehensive parking study to confirm the locations, amounts, and design of parking. Park and ride lots should be established in conjunction with expanded transit service or provision of express buses. Similarly, Connect the Coastside does not include recommendations for parking on Highway 1 due to necessary future coordination; for example, establishing formal parking lots to serve Surfer's Beach.

## PA1. UPPER GRAY WHALE COVE PARKING LOT IMPROVEMENTS

**Description:** Improve existing dirt parking lot with pervious concrete, improve drainage and increase parking spaces; provide path of travel to pedestrian crossing of Highway 1

**Source:** San Mateo County Coastside Access Study (2015)

**Rationale:** Circulation and traffic safety concerns – defining parking stalls will help increase parking capacity, and reduce parking alongside Highway 1, improving highway circulation

**Location:** Gray Whale Cove Trail Parking Lot (south of Gray Whale Cove State Beach, east of Highway 1)

**Discussion:** Connect the Coastside recommends adding pervious pavement and marking parking stalls to ensure that this beach access parking lot is usable year-round and maximizes parking capacity. Paving and marking parking stalls for the Gray Whale Cove Parking Lot can reduce unsafe behaviors along the Highway and reduce delay and congestion caused by visitors parking on the shoulder. This project would complement the planned pedestrian crossing of Highway 1 at Gray Whale Cove and turn and acceleration lanes.

Gray Whale Cove Parking Lot



## PA2. WAYFINDING

**Description:** Install wayfinding signage to help orient drivers seeking various Midcoast destinations, including locations of public parking.

**Source:** San Mateo County Coastside Access Study (2015), Plan Princeton (draft)

**Rationale:** Circulation and traffic safety concerns – clarifying available parking locations and destinations will reduce circling and behavior that could lead to additional congestion

**Location:** Various locations throughout the Midcoast

**Discussion:** Drivers slowing down and blocking travel lanes while searching for parking can add to traffic congestion. Wayfinding signage can help minimize confusion by providing clear and recognizable signage that points people to potential destinations, such as access points to beaches and local businesses, and to direct people to public parking lots and discourage parking along Highway 1. Wayfinding is especially important in the El Granada and Princeton area, where there are many destinations and public parking lots and informal parking. Connect the Coastside recommends a wayfinding study and set-aside for implementation.

Gateway signage at Pillar Point Harbor



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## MITIGATED TRANSPORTATION PERFORMANCE

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The software tools used to assess the impact of mitigations are limited in what they can consider; primarily, they account for projects that impact traffic operations (e.g., a new roundabout, signal timing changes) or increase intersection or roadway capacity (e.g., if lanes were added to the highway). There is a substantial body of research that shows infrastructure interventions that increase the safety of and promote walking, bicycling, and transit use will ultimately reduce the amount of driving and can improve overall traffic. However, these interventions cannot be modeled effectively and are not incorporated in the analysis of transportation performance. Non-infrastructure approaches (policies, planning efforts, and programs) are critical to reducing the overall demand for driving and can improve overall conditions in the long-term. Connect the Coastside's recommended plans, policies, and programs begin on page 151.

### INTERSECTION LEVEL OF SERVICE

The table below compares intersection level of service (LOS) under existing, maximum buildout forecast, and mitigated maximum buildout forecast conditions. Only intersection operating improvements are incorporated into the model, therefore, the only differences between maximum buildout and mitigated maximum buildout is where intersection controls are recommended (Highway 1 and 16<sup>th</sup> Street, California Avenue, and Cypress Avenue; and Highway 92 and Highway 35 upper) and locations with signal timing changes (Highway 92 and Highway 35 lower).

As noted in previous sections, the intersection LOS reported for any uncontrolled location is the LOS of the worst approach, which is typically the minor street where vehicles are attempting to turn onto the Highway. Volumes are low on these minor street approaches, except for Cypress Avenue (current and future) and California Avenue (future).



Table 30: Mitigated Maximum Buildout Forecast Conditions Intersection Level of Service Compared to Existing and Maximum Buildout Forecast Conditions

Street Names	Existing Control Type	Mitigated Control Type	LOS Standard <sup>1</sup>	AM Peak Hour LOS			PM Peak Hour LOS			Weekend (Midday) Peak Hour LOS		
				Existing <sup>2</sup>	Maximum Buildout <sup>2</sup>	Mitigated Max. Buildout <sup>3</sup>	Existing <sup>2</sup>	Maximum Buildout <sup>2</sup>	Mitigated Max. Buildout <sup>3</sup>	Existing <sup>2</sup>	Maximum Buildout <sup>2</sup>	Mitigated Max. Buildout <sup>3</sup>
Highway 1												
SR-1 / 2nd St	TWSC	TWSC	C(D)	C	F	F	C	F	F	C	F	F
SR-1 / 7th St	TWSC	TWSC	C(D)	B	C	C	B	C	C	B	C	C
SR-1 / 8th St	TWSC	TWSC	C(D)	C	F	F	D	F	F	E	F	F
SR -1 / 16 <sup>th</sup> St^	TWSC	RAB (1 L)	C(D)	C	F	B	E	F	C	E	F	C
SR -1 / Carlos St	TWSC	TWSC	C(D)	B	C	C	B	C	C	B	C	C
SR-1 / Vallemar St	TWSC	TWSC	C(D)	C	D	D	C	F	F	C	E	E
SR-1 / California Ave	TWSC	RAB (1 L)	C(D)	D	F	B	E	F	C	F	F	B
SR-1 / Virginia Ave	TWSC	TWSC	C(D)	C	F	F	E	F	F	F	F	F
SR-1 / Vermont Ave (WB)	TWSC	TWSC	C(D)	D	F	F	E	F	F	F	F	F
SR-1 / Cypress Ave (EB)	TWSC	RAB (2 L)	C(D)	E	F	A	F	F	A	F	F	A
SR-1 / Etheldore St (South)	TWSC	TWSC	C(D)	C	F	F	D	F	F	E	C	C
SR-1 / Capistrano Rd (North)	TWSC	TWSC	C(D)	C	C	C	C	C	C	D	D	D
SR-1 / Coral Reef Ave	TWSC	TWSC	C(D)	C	F	F	C	F	F	D	F	F
SR-1 / Capistrano Rd (South)	Signalized	Signalized	C(D)	B	C	C	B	C	C	C	C	C
SR-1 / Coronado St	Signalized	Signalized	C(D)	C	D	D	B	D	D	B	E	E
Obispo Rd / Coronado St	TWSC	TWSC	C(D)	B	B	B	B	B	B	B	B	B

SR-1 / Magellan Ave	TWSC	TWSC	C(D)	F	F	F	F	F	F	F	F	F
SR-1 / Medio Ave	TWSC	TWSC	C(D)	F	F	F	F	F	F	F	F	F
SR-1 / Miramar Dr	TWSC	TWSC	C(D)	C	E	E	F	F	F	E	F	F
SR-1 / Mirada Rd	TWSC	TWSC	C(D)	F	F	F	F	F	F	F	F	F
<b>Highway 92</b>												
SR-92 / Ox Mt. Landfill Rd	TWSC	TWSC	C(D)	F	E	E	F	F	F	D	F	F
SR-92 / Skyline Blvd (Upper)	TWSC	Signalized	C(D)	E	F	C	F	F	D	F	F	D
SR-92 / SR-35 (Lower) <sup>4</sup>	Signalized	Signalized	C(D)	B	D	B	C	F	C	D	F	C

<sup>1</sup>LOS standard provided within parenthesis are for any one individual movement

<sup>2</sup>Signalized intersections and all way stop-controlled (AWSC) are reported by the LOS for the intersection; two-way stop controlled (TWSC) intersections are reported with the worst approach's level of service

<sup>3</sup>Mitigations are applied at 16th, California, and Cypress (EB); other intersections LOS are the same as Maximum Buildout since no operational improvements are assumed. Intersection LOS are from SIDRA reports (overall LOS for all vehicles).

<sup>4</sup>Signal timings were updated to better serve demand, improving level of service; signal timings are generally optimized when looking at cumulative conditions.

^ Level of service analysis was done as part of draft Intersection Control Evaluation memos; LOS for existing, buildout, and mitigated buildout for each time period are reported for HCM 2010 TWSC

## DELAY

The table below compares delay under existing, maximum buildout forecast, and mitigated maximum buildout forecast conditions. Delay is measured in terms of travel time for free-flow conditions compared to peak period conditions. Delay can be impacted through interventions that smooth traffic flow, such as adjusting signal timing, adding stacking lanes (allowing more lanes at intersections where queues build up), and turn lanes at uncontrolled intersections.

Highway 1 meets the delay index threshold of 3.0 for all peak periods under Mitigated Buildout Conditions. Highway 92 meets the delay index threshold of 2.0 for all peak periods under Mitigated Buildout Conditions. Like the Intersection Level of Service Analysis, the projects contributing to changes in delay under Mitigated Buildout Conditions are where intersection controls are recommended (Highway 1 and 16<sup>th</sup> Street, California Avenue, and Cypress Avenue; and Highway 92 and Highway 35 upper) and locations with signal timing changes (Highway 92 and Highway 35 lower). The analysis also accounts for the addition of turn and acceleration lanes along Highways 1 and 92. The City of Half Moon Bay did not engage in analysis of delay under mitigation conditions.

Table 31: Mitigated Maximum Buildout Forecast Delay Index Compared to Existing and Maximum Buildout for Highway 1

	FREE FLOW~	EXISTING						MAXIMUM BUILDOUT*						MITIGATED MAXIMUM BUILDOUT^					
		AM		MD		PM		AM		MD		PM		AM		MD		PM	
	Travel Time	Travel Time	Delay Index	Travel Time	Delay Index	Travel Time	Delay Index	Travel Time	Delay Index	Travel Time	Delay Index	Travel Time	Delay Index	Travel Time	Delay Index	Travel Time	Delay Index	Travel Time	Delay Index
<b>Highway 1 - Southbound</b>																			
1st Street to 16th Street	01:00	00:29	0.49	00:33	0.55	00:32	0.53	00:34	0.58	00:48	0.80	00:39	0.66	01:17	1.29	01:20	1.34	01:29	1.49
16th Street to Capistrano (North)	02:59	03:40	1.23	03:56	1.32	03:50	1.28	03:34	1.19	04:02	1.35	03:41	1.23	08:02	2.70	04:11	1.40	05:44	1.92
Capistrano (North) to Mirada Road	02:29	03:10	1.27	03:21	1.35	03:16	1.31	05:43	2.30	07:45	3.12	10:39	4.28	03:52	1.55	04:15	1.71	03:42	1.49
<b>Total</b>	<b>06:28</b>	<b>07:19</b>	<b>1.13</b>	<b>07:50</b>	<b>1.21</b>	<b>07:37</b>	<b>1.18</b>	<b>09:51</b>	<b>1.52</b>	<b>12:35</b>	<b>1.94</b>	<b>14:59</b>	<b>2.32</b>	<b>13:11</b>	<b>2.04</b>	<b>09:46</b>	<b>1.51</b>	<b>10:56</b>	<b>1.69</b>
<b>Highway 1 - Northbound</b>																			
Mirada Road to Capistrano (North)	02:36	03:05	1.18	03:29	1.34	03:27	1.32	03:29	1.34	04:54	1.88	04:32	1.74	03:25	1.31	03:46	1.45	03:42	1.42
Capistrano (North) to 16th Street	02:59	03:24	1.14	03:27	1.16	03:28	1.16	03:15	1.09	03:20	1.12	03:24	1.14	03:46	1.26	03:55	1.32	03:56	1.32
16th Street to 1st Street	00:54	01:00	1.11	01:00	1.10	00:56	1.04	01:09	1.28	01:08	1.25	01:06	1.21	01:16	1.40	01:16	1.39	01:13	1.35
<b>Total</b>	<b>06:29</b>	<b>07:28</b>	<b>1.15</b>	<b>07:56</b>	<b>1.22</b>	<b>07:51</b>	<b>1.21</b>	<b>07:53</b>	<b>1.22</b>	<b>09:22</b>	<b>1.44</b>	<b>09:01</b>	<b>1.39</b>	<b>08:26</b>	<b>1.30</b>	<b>08:57</b>	<b>1.38</b>	<b>08:52</b>	<b>1.37</b>
~ Free Flow is segment length divided by the speed limit and an output of Synchro																			
* In Maximum Buildout conditions, segments that do not meet the delay index standard of 2.0 are highlighted in red																			
^ In Mitigated Maximum Buildout conditions, all segments meet the proposed delay index standard of 3.0 because parallel bicycle and pedestrian facilities are provided																			

Table 32: Mitigated Maximum Buildout Forecast Delay Index Compared to Existing and Maximum Buildout for Highway 92

	FREE FLOW~	EXISTING						MAXIMUM BUILDOUT*						MITIGATED MAXIMUM BUILDOUT*					
		AM		MD		PM		AM		MD		PM		AM		MD		PM	
Highway 92	Travel Time	Travel Time	Delay Index	Travel Time	Delay Index	Travel Time	Delay Index	Travel Time	Delay Index	Travel Time	Delay Index	Travel Time	Delay Index	Travel Time	Delay Index	Travel Time	Delay Index	Travel Time	Delay Index
HMB City Limit to I-280 Ramp (EB)	08:42	12:51	1.48	12:51	1.48	12:43	1.46	12:48	1.47	12:39	1.45	12:40	1.46	17:12	1.98	13:10	1.51	13:12	1.52
I-280 Ramp to HMB City Limit (WB)	08:42	12:25	1.43	12:25	1.43	12:49	1.47	12:21	1.42	12:44	1.46	12:45	1.47	12:32	1.44	13:06	1.51	13:05	1.50

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## RECOMMENDED PLANNING STUDIES

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### PLANNING FOR SEA LEVEL RISE AND COASTAL EROSION

Addressing the impacts of climate change in the Midcoast, and specifically sea level rise and subsequent impacts on evacuation, will require additional community-engaged planning studies to allow for deeper stakeholder engagement and collaboration with agency partners, data collection and analysis, and identification of specific improvements that incorporate climate resiliency. The San Mateo County Flood and Sea Level Rise Resiliency District will take a lead role in planning for and adapting to sea level rise and coastal erosion in the County.

Plan Princeton (described on page 36) is an ongoing community-based planning process to develop a land use plan, update zoning and create a shoreline management strategy that assesses vulnerabilities and identifies policies and improvements necessary to address the impacts of climate change and sea level rise in Princeton. The Princeton shoreline includes areas of unauthorized riprap and other measures to protect properties from erosion; however, this piece-meal approach may have exacerbated erosion in unprotected shoreline areas of the harbor. The intent of Plan Princeton's Shoreline Management Plan is to address sea level rise and coastal erosion in a sustainable, coordinated, adaptable, environmentally acceptable, and economically viable manner, and to restore the beach for public access and habitat. The Shoreline Management Plan will provide important data that can support future sea level rise and coastal erosion assessments. Connect the Coastside recommends the following additional planning efforts and studies.

#### Highway 1 Realignment Plan

Caltrans recognizes the threat of climate change and sea level rise to the transportation system, and in particular to coastal communities, and has developed resources to support local agencies in assessing sea level rise threats as part of the Caltrans project delivery.<sup>43</sup> Highway 1 in the Midcoast is vulnerable to sea level rise, especially in El Granada. Long-term realignment of Highway 1 may be necessary to comprehensively address sea level rise threats, including reassessing the local roadway network and its connections. For example, stakeholders identified circulation concerns in Miramar that could be exacerbated by coastal erosion and suggested paving and connecting Alameda Avenue. Connect the Coastside recommends that in partnership with Caltrans, Granada Community Services District, and others, the County engage in a community-based planning process to assess future realignment options of Highway 1 due to impacts from climate change and sea level rise.

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<sup>43</sup>California Department of Transportation (Caltrans) webpage on Sea Level Rise and the Transportation System in the Coastal Zone. <https://dot.ca.gov/programs/environmental-analysis/coastal-program/coastal-act-policy-resource-information/coastal-hazards/sea-level-rise>. Accessed 12/21/20.

## California Coastal Trail Realignment Plan

Sea level rise and coastal erosion has and will continue to impact the California Coastal Trail. The closure of the Medio Creek bridge on the Coastal Trail in 2020 was necessary due to corrosion weakening structural elements of the bridge. As part of the bridge replacement project, the County Department of Public Works proposes to replace damaged riprap shoreline protection with shotcrete wall and riprap toe shoreline protection near the bridge. The rate of shoreline erosion in Miramar is uncertain because existing riprap shoreline protection has prevented erosion. Interim repair of the Medio Creek bridge is being pursued to restore public access; however, long-term realignment and route alternatives will be necessary in the future. In particular, the segment of the Coastal Trail from Surfer's Beach to Alcatraz Avenue in Half Moon Bay is vulnerable. Connect the Coastside recommends that, in partnership with California Coastal Commission, Coastal Conservancy, Caltrans, San Mateo County Parks, and others, the County engage in a community-based planning process to assess future realignment options of the California Coastal Trail due to impacts from climate change and sea level rise. As identified in the Highway 1 Safety and Mobility Study, and suggested by community stakeholders, Alameda Avenue from Cortez Avenue to the Half Moon Bay border could be an alternate route and would require a bridge to cross the ravine that separates the two segments of Alameda Avenue.

Potential long-term alignment for California Coastal Trail (excerpt from presentation by San Mateo County Department of Public Works on 12/9/20 to Midcoast Community Council)



## COASTSIDE PARKING STUDY

Drivers park along the Highway 1 shoulder and in informal lots, often causing congestion and safety concerns by slowing down, blocking travel lanes, and, as pedestrians, crossing at various locations. The section of Highway 1 between Capistrano Road and Mirada Road experiences the greatest delay along Highway 1 in the Study Area and is projected to be deficient under the Maximum Buildout Forecast conditions. There is a need for additional recreational and new park-and-ride parking in El Granada and Princeton, particularly near Surfer's Beach.

There are several concurrent projects and interrelated concerns in this area of Highway 1, including Burnham Park (north of Surfer's Beach) led by the Granada Community Services District, impacts of sea-level rise and coastal erosion on the alignment of Highway 1, implementing the Parallel Trail, emergency services and access provided by fire station on Obispo Road and Coronado Street, and more. There is also an opportunity to evaluate "paper lots"<sup>44</sup> as potential candidate sites for future parking. Due to the complex nature of the area, and the competing needs and interests, Connect the Coastside recommends a community-based future study to update the 2015 San Mateo County Coastside Access Study to address overflow parking at beaches and other popular destinations, and identify necessary resources for implementation. County staff will also continue to participate in studies led by others that can help resolve parking and mobility issues in this area.

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<sup>44</sup>In this context, "paper lots" is intended to refer to lots that may be depicted on a subdivision map but may not be currently developed or may be challenging to develop.



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## RECOMMENDED POLICIES AND PROGRAMS

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Connect the Coastside recommends the following programs and policies to further improve traffic conditions on the Midcoast. In general, programs and policies aim to limit new development and fund transportation improvements, promote alternative modes of travel and reduce vehicle use, and improve traffic safety with a focus on multimodal users.

### LIMIT NEW DEVELOPMENT AND FUND TRANSPORTATION IMPROVEMENTS

#### **LOT MERGER**

Connect the Coastside recommends that Planning Division staff continue the practice of reviewing development applications for opportunities to merge contiguously owned parcels in accordance with County Subdivision Regulations, Chapter 9 – Parcel Mergers (Section 7116-7119 and 7123). This strategy allows staff to review contiguously owned parcels for merger potential on a case-by-case basis, with the benefit of understanding the legal status of each parcel based on the chain of title submitted with the application. This staff review will lead to the appropriate requirements for the specific situation, which could include merger or lot legalization through a Certificate of Compliance Type A or B. Over time, this strategy will reduce the number of legal parcels on the Midcoast.

#### **DEVELOPMENT REVIEW**

The County's development review process helps to address the traffic or mobility impacts of proposed developments. Projects subject to the County's development review process must conform to County policies and regulations. In most cases, conformance is achieved, in part, by the applicant designing their project to meet County standards and/or meeting County-imposed permit conditions that modify a project application, including in some cases requirements to build or contribute funding towards new transportation infrastructure or transportation demand measures (TDM).

Measures set forth by the City/County Association of Governments (CCAG) and the LCP include but are not limited to: establishing a shuttle service for employees, subsidizing transit for employees or residents, charging for non-public access parking, establishing a carpool or vanpooling program, having alternate work schedules, providing bicycle storage facilities and showers for employees or residents, or establishing a day care program. Prior to approval of a coastal development permit, the County must be able to make the finding that the project as proposed, or the project's proposed mitigation measures, are adequate to offset new vehicle trips generated by the project to the extent feasible. The County will continue to use the development review process and permit requirements to improve transportation conditions based on appropriate findings.

## TRANSPORTATION IMPACT MITIGATION FEE

A Transportation Impact Mitigation Fee (TIMF) program would collect fees for new residential and non-residential development on a per-housing-unit basis for residential and per-square-foot basis for non-residential development. Attaching a mitigation fee to development provides a mechanism to offset, or mitigate, the impacts of that new development by providing a portion of funding for transportation projects. A TIMF, if adopted, would only apply to new development, and would not be charged to existing residents.

To implement a Transportation Impact Mitigation Fee, the County will need to document the “nexus” or linkage between the fees being charged to new development, the impacts of the new development, and the cost allocation. These legal requirements are in California Government Code sections 66000-66025, commonly called the “Mitigation Fee Act” or “AB 1600” requirements.” TIMF rates must be based on a specific list of projects needed to mitigate the transportation impacts of new development, the total estimated capital cost of those projects, and the amount of new development expected. An assessment of the portion of total project need attributable to new development will determine what a legally defensible rate structure might be for a Transportation Impact Mitigation Fee Program.

Connect the Coastside recommends a new TIMF and has done initial analysis based on the projects in this Plan to inform the future nexus study. The Transportation Impact Mitigation Fee is described further on page 192.

## PROMOTE ALTERNATIVE MODES OF TRAVEL AND REDUCE VEHICLE USE

### SAFE ROUTES TO SCHOOL

The San Mateo County Office of Education already has a robust Safe Routes to School Program (SRTS). The overall goal of the program is to enable and encourage children to walk or bicycle to school by implementing projects and activities to improve health and well-being, safety, and reduce traffic congestion due to school-related trips. Successful programs use a multi-disciplinary approach and engage a wide variety of school stakeholders including parents, students, school facilities staff, law enforcement, and jurisdiction staff to educate students and parents on safe walking and bicycling skills, establish encouragement programs to make walking and bicycling to school fun, use data and evaluation to support program objectives, and build infrastructure to support safe multimodal travel.

Cabrillo Unified School District has a dedicated program and SRTS coordinator and is already implementing encouragement and evaluation programs at local schools, including Farallone View Elementary School in Montara. Connect the Coastside's recommended Safe Routes to School infrastructure improvements support existing SRTS efforts and recommends continued investment in the program by the San Mateo County Transit District, County, and other funding partners. The Plan recommends that the LCP be amended to acknowledge Safe Routes to School as a strategy, alongside others, to reduce the overall demand for driving.

To learn more about SRTS, visit:

- San Mateo County Office of Education SRTS: <https://www.smcoe.org/for-schools/safe-and-supportive-schools/safe-routes-to-school/>
- Cabrillo Unified School District SRTS: [https://www.cabrillo.k12.ca.us/our\\_community/safe\\_routes\\_to\\_school](https://www.cabrillo.k12.ca.us/our_community/safe_routes_to_school)

### TRANSPORTATION DEMAND MANAGEMENT & LCP POLICY 2.52

Transportation Demand Management or TDM refers to policies and strategies that aim to reduce travel demand, particularly single occupant vehicles, or to redistribute that demand to off-peak times. Reducing the demand for single occupant vehicle trips and shifting those trips to carpools, bicycles, pedestrians, and transit trips are ways to reduce congestion and make more efficient use of the existing transportation system.<sup>45</sup> A 2020 study from the Mineta Transportation Institute engaged in a case study, based on a section of Highway 92 in Half Moon Bay, found that at \$15 a day, half of people driving on a busy road would be willing to

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<sup>45</sup> C/CAG Transportation Demand Management webpage (Accessed 11/29/20)  
<https://ccag.ca.gov/programs/transportation-programs/transportation-demand-management/#:~:text=Transportation%20Demand%20Management%20or%20TDM,demand%20to%20off%20peak%20times.>

travel as passengers and another 23% would be willing to serve as drivers.<sup>46</sup> Incentives for TDM through Commute.org are further described on page 165.

In 2000, the City/County Association of Governments of San Mateo County (C/CAG) adopted a policy that provided guidelines for analyzing the impacts of land use decisions made by local jurisdictions. This policy is implemented during the environmental review process and applies to developments that generate 100+ peak-hour trips on the Congestion Management Program (CMP) roadway network. Highways 1 and 92 are part of the CMP roadway network. The policy requires that the TDM plan include strategies that have the capacity to fully reduce the demand for new peak-hour trips; thus, the guidelines also provide a menu of TDM measures and corresponding trip reduction credits.<sup>47</sup> The County adopted the C/CAG TDM Ordinance and implements it as part of the County's development review and permitting process, including for County projects in the Coastal Zone. As of June 2021, C/CAG is updating their TDM policy and program and collaborating with Commute.org to provide support services.<sup>48</sup>

The San Mateo County Local Coastal Program (LCP) Policy 2.52<sup>49</sup> complements C/CAG's TDM Ordinance and Policy 2.53, the catalyst for Connect the Coastside. Policy 2.52 requires applicants for new development that generate any net increase in vehicle trips on Highways 1 and/or 92, except for a single-family dwelling, an accessory dwelling unit, or a two-family dwelling, to develop and implement a traffic impact analysis and mitigation plan (TIMP). The LCP generally states the TIMP must include: (1) traffic mitigation measures, (2) enough information for the County to assess if the mitigation measures are adequate to offset new vehicle trips generated by the project, and (3) project's cumulative impacts combined with other reasonably foreseeable future projects, especially in regards to beach access. Traffic mitigation measures (Policy 2.52a) could include shuttle services for employees of the development, subsidizing transit, providing bike storage, and others. C/CAG coordinates countywide congestion management and recommends TDM measures and the potential number of trips offset as part of its annual Congestion Management Program.<sup>50</sup>

As described in the Development Review section, mobility projects in Connect the Coastside can be considered as part of Transportation Demand Management strategies. The State's adoption of the Vehicle Miles Traveled (VMT) standard to characterize and address impacts under the California Environmental Quality Act will require additional mitigation for projects that have high VMT. The LCP may require amendment to address VMT as described further in the Recommended Standards and Evaluation section on page 160.

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<sup>46</sup> Carpooling for Cash and Congestion-clearing. July 29, 2020. <https://transweb.sjsu.edu/press/Carpooling-Cash-and-Congestion-clearing> (Accessed 4/28/21)

<sup>47</sup> *ibid*

<sup>48</sup> Congestion Management Program Transportation Demand Management Policy Update. <https://ccag.ca.gov/cmp-tdm-update/> (Accessed 4/27/21)

<sup>49</sup> San Mateo County Local Coastal Program. 2013. P.2.22. <https://planning.smcgov.org/documents/local-coastal-program> (Accessed 11/8/20)

<sup>50</sup> C/CAG Appendices for Congestion Management Program, 2019 – Appendix I - <https://ccag.ca.gov/wp-content/uploads/2020/04/2019-Final-CMP-Appendix-040920-compressed.pdf>

## EMERGING TRANSPORTATION TECHNOLOGY

Emerging transportation technology, such as ridesharing applications (e.g., Lyft) and micromobility services (e.g., scooter and bike share) have and will continue to change the way people travel, including car ownership and circulation patterns. When paired with high quality infrastructure, like the Multimodal Parallel Trail, services like scooter share can allow visitors to park (or take transit) to the coast and travel easily without a car to other coastal destinations. Service availability is currently largely available dependent upon private companies (like Lyft<sup>51</sup>) and can require public-private partnerships, typically led by regional transportation agencies (e.g., Metropolitan Transportation Commission, San Mateo County Transportation Authority, and others).

Connect the Coastside recommends that the County continue partnerships with other agencies to explore how using emerging transportation technologies could address existing and projected traffic conditions on the Midcoast.

## SHARED PARKING

During the 2020 engagement process, several stakeholders suggested a “shared parking” strategy to increase parking availability to serve recreational areas and transit riders. Shared parking allows different sites to share parking whose peak parking demands occur at different times. Shared public parking can be more efficient than single-use private parking because fewer spaces are needed to meet the total peak parking demand. Parking that is shared among different establishments allows motorists to park once and visit multiple sites on foot.<sup>52</sup> Stakeholders suggested candidate sites for shared parking, including El Granada Elementary School and the Church of Latter Day Saints in Moss Beach. Implementing shared parking at privately owned sites is complex due to liability, rules related to property tax exempt status for non-profit entities, and maintenance. Connect the Coastside recommends exploring shared parking as a strategy with partners given the potential benefits and reduction in environmental impacts, and potential LCP amendments to promote shared parking.

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<sup>51</sup> Lyft scooter share offerings <https://www.lyft.com/scooters>

<sup>52</sup> Shoup, D. “Instead of Free Parking.” Access Magazine, Number 15, Fall 1999. P.8-13. Available at: <http://shoup.bol.ucla.edu/InsteadOfFreeParking.pdf>

## IMPROVE SAFETY

### LOWER SPEED LIMIT ON HIGHWAY 1

Stakeholders were concerned about speeding on Highway 1 in commercial areas and recommended lowering the speed limit. The California Vehicle Code (Division 11, Chapter 7) dictates speed laws in California. The State of California Department of Transportation (Caltrans) can lower the speed limit on highways under certain conditions. Connect the Coastside recommends that Caltrans engage in the appropriate studies to determine whether the speed limit on Highway 1 can be lowered, especially in the Village zones in central Montara, Moss Beach, and El Granada/Princeton.

### EDUCATIONAL CAMPAIGNS

Motor vehicle crashes continue to be a leading cause of death in California and the nation. Media campaigns and educational strategies can be effective in addressing specific behaviors such as impaired driving, distracted driving, and pedestrian and bicycling safety. Connect the Coastside recommends collaborating with Safe Routes to School partners, Caltrans, and others to distribute safe driving materials and implement safety campaigns. The California Office of Traffic Safety offers grants and resources that can support the effort: <https://www.ots.ca.gov/>



Image from California Office of Traffic Safety Distracted Driving campaign and associated site: <https://gosafelyca.org/distracted-driving/>

### TRAFFIC CONTROL MEASURES

Traffic control measures, such as traffic control personnel present at key locations during large events, can increase safety and ease congestion. Applicants seeking approval for temporary events from the San Mateo County Business License Board are responsible for working with the County's Department of Public Works, Caltrans, and County Sheriff's Department to identify and review traffic and parking control plans. The County Departments of Planning and Building and Public Works also collaborate to identify appropriate traffic control measures for certain uses and include these in project conditions of approval. Connect the Coastside recommends the Planning and Building Department engage partners, including the cities of Pacifica and Half Moon Bay, to develop a coordinated approach to traffic control for uses and events that generate large traffic volumes.

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## RECOMMENDED STANDARDS AND EVALUATION

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The effectiveness of recommended projects in Connect the Coastside is measured using current and new performance standards (see discussion beginning on page 54). Connect the Coastside recommends the following amendments to transportation evaluation standards.

### SAN MATEO COUNTY TRAFFIC IMPACT ANALYSIS REQUIREMENTS

San Mateo County's Department of Public Works developed the *Traffic Impact Study Requirements (2013)*, which use LOS to evaluate the traffic impacts of a proposed project. The Traffic Impact Study (TIS) Requirements have not yet been revised to reflect changes in State law related to evaluating transportation impacts under the California Environmental Quality Act (CEQA) that require using Vehicle Miles Traveled (VMT). However, the County may continue to require level of service evaluation for purposes of consistency with adopted plans or policies, but any changes in level of service are no longer considered significant environmental impacts under CEQA.

Connect the Coastside assumes that the County will further refine the interim guidance on VMT<sup>53</sup> and incorporate subsequent changes into revised Traffic Impact Study Requirements. In the interim guidance on VMT, El Granada/Miramar are categorized as urban/suburban areas, and therefore have interim VMT threshold criteria. Other Midcoast communities are categorized as rural areas, where thresholds will be set on a case-by-case basis. The San Mateo County Local Coastal Program (LCP) designates urban lands as those lands in the Midcoast area within the urban-rural boundary on Land Uses (LCP Map 1.4, p.1.34). The LCP designations currently do not align with the urban/suburban areas definition in the VMT guidelines. Connect the Coastside recommends updating the final VMT guidelines and/or LCP to resolve this difference. If the County continues to use intersection level of service to assess the need for traffic mitigation, Connect the Coastside recommends that the Traffic Impact Study Requirements be revised so that unsignalized intersections with Highway 1 in the Midcoast are considered deficient if they meet a peak-hour signal warrant. LCP Policy 2.52 has different threshold requirements for when a traffic impact analysis is required than the current San Mateo County Traffic Impact Study Requirements (i.e., any net new increase in trips on Highways 1 or 92 for LCP vs. 100 peak hour trips or 500 daily trips for TIS). Connect the Coastside recommends that the San Mateo County Traffic Impact Study Requirements be amended to address requirements of LCP Policy 2.52. C/CAG is in the process of updating the County's Transportation Demand Management ordinance, and it would be beneficial when the C/CAG policy is adopted to update LCP Policy 2.52 and the Transportation Impact Study Requirements so that these documents are consistent.

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<sup>53</sup> Inter-departmental Correspondence – Change to Vehicle Miles Traveled as Metric to Determine Transportation Impacts under CEQA analysis. Available at: <https://publicworks.smcgov.org/sites/publicworks.smcgov.org/files/documents/files/Interim%20VMT%20Analysis%20Criteria.pdf>

## SAN MATEO COUNTY LOCAL COASTAL PROGRAM

The San Mateo County Local Coastal Program (LCP) contains policies to protect coastal resources and govern decisions in the Coastal Zone, including requirements for new development. Several LCP policies collectively aim to reduce traffic congestion, promote alternative modes of travel, and protect coastal resources from the impacts of new and cumulative residential development.

LCP Policy 2.43 Desired Level of Service states: “In assessing the need for road expansion, consider Service Level D acceptable during commuter peak periods and Service Level E acceptable during recreation peak periods.” The San Mateo County Congestion Management Agency (C/CAG) is currently required to use level of service when measuring roadway performance for its Congestion Management Program, but this may change in the future.

Connect the Coastside recommends that the County work with the California Coastal Commission and C/CAG to amend the LCP to incorporate the delay index and vehicle miles traveled as performance measures. A revised policy could read:

*“In assessing the need for road expansion, consider Delay Index 3.0 acceptable for roadway segments with adjacent Class I or Class II Bikeways for at least 80% of the length and Delay Index 2.0 acceptable for other roadway segments during commuter or recreation peak periods. Induced vehicle miles traveled due to proposed road expansion should be assessed per San Mateo County’s Guidelines.”*

This change would impact how capacity limits are assessed as noted in other policies within the LCP, including Policy 2.42 Capacity Limits, Policy 2.44 Route 1 and Route 92 Phase I Capacity Limits, and Policy 2.46 Monitoring.

Policy 2.52 Traffic Mitigation for all Development in the Urban Midcoast requires applicants for new development that generate any net increase in vehicle trips on Highways 1 and/or 92 (other than up to a two-family dwelling unit) to develop and implement a traffic impact analysis and mitigation plan (TIMP). The LCP does not define a specific methodology to assess impacts and references transportation demand management measures for mitigation. Connect the Coastside recommends that this policy be revised to reference San Mateo County’s Traffic Impact Study Requirements (per the section above), and projects within this Plan (the CTMP) for mitigation measures.

## CONNECT THE COASTSIDE IMPLEMENTATION MONITORING

Connect the Coastside recommends County Planning and Building staff provide annual reports on the status of implementation of Connect the Coastside projects and development; LCP Policy 2.46 could be amended to address implementation and monitoring.



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## OTHER EFFORTS TO IMPROVE TRANSPORTATION CONDITIONS

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The County and its partners already engage in efforts to improve travel conditions to and within the Midcoast. The following programs are highlighted to address comments received during Connect the Coastside’s engagement efforts.

### VEGETATION REMOVAL

Midcoast stakeholders are concerned about the impact of vegetation on traffic safety, including blocking pedestrian, motorist and bicyclist sight lines and ability to evacuate during an emergency, such as a wildfire.

The California Department of Transportation (Caltrans) is responsible for most of the maintenance of Highways 1 and 92 and is actively addressing tree die-off and fuel reduction. Caltrans’ Maintenance Manual Chapter C2 details Vegetation Control. Per Section C2.06, each Caltrans district prepares an annual plan for vegetation control (VegCon Plan), which considers fire risk management, safety, aesthetics, and community concerns, among others. Section C2.11 details vegetation control of specific areas, including the distance of vegetation control recommended from the paved shoulder edge. Section C2.11.(D) states that “all brush and seedling trees should be controlled nine (9) feet from the pavement edge.” Caltrans is also engaging in Wildfire Vulnerability Analysis (2020-2030) to prioritize where to focus fuel-reduction projects for fire prevention and forest health along state highways. Midcoast residents can submit maintenance requests at the link in the “Resources” section below.



Highway 1 shoulder near Devil’s Slide, photo courtesy of Cid Young

#### Resources:

- Caltrans Maintenance Manual - <https://dot.ca.gov/programs/maintenance/maintenance-manual>
- Division of Maintenance Customer Service Request - <https://csr.dot.ca.gov/>
- Caltrans Roadside Fire Fuels Reduction - <https://dot.ca.gov/programs/maintenance/roadside-fire-fuels>

## LIGHTING

Several commenters during 2020 engagement stated the need for roadway lighting to improve the safety, especially for those walking and bicycling in the evening along Highway 1, Airport Street, and at highway intersections. However, commenters also addressed the need to minimize light pollution to maintain the Coastside character and reduce environmental impacts. Roadway lighting at intersections and pedestrian-scale lighting can increase traffic safety.

The San Mateo County Department of Public Works oversees several lighting districts on the Midcoast. Lighting districts are considered a County-governed special district, governed by the San Mateo County Board of Supervisors and operated by the County; more on these special districts, including when they were established is on the San Mateo County Local Agency Formation Commission (LAFCO) [website](#).

There is currently one light in the State right-of-way on Highway 1 at Virginia Avenue, which is maintained by the Montara Highway Lighting District. It was installed through the streetlight petition process after a crash and with the permission of Caltrans. Airport Street is not currently within any of the service areas of County-maintained lighting districts and there are no County-maintained lights on that street.

There are two ways to add streetlights:

1. Two members of the Board of Supervisors can petition the County Board of Supervisors for installation, or
2. Twenty (20) property owners in the District can petition the Board of Supervisors for the installation of a new light.

The second method is most common and outlined in a Street Light Petition Procedures document. A lighting requestor must send a letter to Lighting District staff requesting the new light at a specific location. District staff verify the location and whether it's feasible to install, and then mail the requestor a letter of instruction and standard petition to be signed by at least 20 property owners. Once received, the District staff will verify the petition and location and prepare a letter to inform property owners within 300 feet of the proposed location and allow 15 days for objections. The Board of Supervisors must then find it just and equitable for additional lights to be installed. In addition, Caltrans must approve any lights in their right of way and could require the removal of County streetlights that are in State right of way at any time. Connect the Coastside recommends that the County work with property owners and agency partners as part of the project implementation process to address lighting needs.

More information about street lighting districts can be found at:

<https://publicworks.smcgov.org/street-light-services>

Map 21: San Mateo County Lighting Districts



## INCENTIVES FOR SUSTAINABLE TRANSPORTATION

Commute.org (<https://commute.org/>) is San Mateo County's Transportation Demand Management (TDM) Agency. Structured as a joint powers authority (JPA), the agency's members include 17 cities and towns as well as the County of San Mateo. Working together, Commute.org and its members seek to promote, encourage, and incentivize people to use transportation options other than driving alone. The goal of TDM programming is to shift demand for transportation across all available modes including walking, biking, transit, telework, and ridesharing. The agency is managed by a Board of Directors that includes representatives from each of the 17 cities or towns that are members of Commute.org as well as one representative from the San Mateo County Board of Supervisors.

Commute.org provides programs, rewards, and incentives that Midcoast residents can take advantage of today. Examples of Commute.org's program offerings include:

- **Commuter Programs:** Commute.org educates commuters about alternative transportation options and then inspires and incentivizes them to use a sustainable mode choice to work or college. Commute.org offers up to \$100 for carpooling, up to \$100 for bicycling, up to \$500 for vanpooling, a Guaranteed Ride Home program for emergencies and more. Commuters are invited to create a free STAR (Support, Track, and Reward) account on [my.commute.org](https://my.commute.org) to access the reward programs, as well as a trip planning tool that helps explore commute options including Commute.org shuttles, public transit, and bicycling. STAR also helps commuters find carpool or vanpool matches to connect with directly on the platform.
- **Shuttle Program:** The Commute.org shuttle program provides first/last mile transportation services during peak commute hours linking commuters and residents to transit stations throughout the county and is part of a larger, county-wide shuttle system. The vast majority of Commute.org shuttle passengers are employees who use the service between BART or Caltrain stations and their places of work. Additionally, the shuttles provide "reverse commute" service to residents that live near shuttle routes.
- **Employer Programs:** Commute.org works with employers of all sizes and types, including private companies, non-profits, schools, and government agencies to develop, implement, and sustain employee participation in commute alternative programs.

## TRAFFIC CALMING

Traffic calming uses physical infrastructure to improve safety and slow vehicle speeds. Common traffic calming measures include speed humps, narrower roadways, traffic circles, and curb extensions. Many stakeholders commented about speeding drivers creating unsafe travel conditions, especially for walking and bicycling.

The San Mateo County Department of Public Works has a residential speed control program, which aims to curb excessive speeding in residential neighborhoods on County-maintained roadways by using speed humps and dips. The purpose of the program is to provide a consistent process to evaluate requests for speed control devices throughout unincorporated areas. Residents can use the petition process to request a roadway evaluation, which requires that at least 51% of the property owners on the given street are interested in participating. More information about this program is available at:

<https://publicworks.smcgov.org/residential-speed-control>

Some of the recommended improvements in Connect the Coastside, such as the addition of curb extensions in Montara, high visibility markings, and edge striping could help slow vehicle speeds. However, Connect the Coastside does not make specific recommendations for each street because all traffic calming measures must be approved and reviewed by Caltrans (if in State right-of-way), California Highway Patrol, Fire Department, and Department of Public Works. Non-infrastructure approaches, such as safe driving campaigns, can also help curb speeding.



Example of a traffic calming demonstration in the City of Redwood City of a mini-traffic circle - <https://www.redwoodcity.org/departments/community-development-department/engineering-transportation/transportation-and-parking/traffic-calming-projects>

## EMERGENCY RESPONSE AND EVACUATION

The projects recommended in Connect the Coastside have been selected to improve safety and mobility for residents, businesses and visitors and ease roadway congestion. In the event of an emergency, keeping traffic moving efficiently will be important for both emergency responders and those leaving during a possible evacuation. Projects in Connect the Coastside that will improve the flow of traffic include intersection controls and turn lanes.

Connect the Coastside also suggests improvements to bicycle, pedestrian, and transit infrastructure that could aid in the evacuation of visitors and residents in certain emergency situations. For example, in the event of a Tsunami Warning, the County of San Mateo Department of Emergency Management suggests walking to high ground or inland immediately. Improvements to trails and walking paths will make it easier and safer for people to travel by foot.

The following is an overview of different County departments and special projects related to emergency response and hazard mitigation planning:

- In the event of a disaster, the Department of Emergency Management coordinates countywide response and protection services. One of the missions of the Department of Emergency Management is to maintain and improve the Countywide Emergency Operations Plan. This plan establishes policies and procedures and assigns responsibilities to keep residents safe during an emergency situation.
- During an emergency or disaster, law enforcement is responsible for evacuation and the movement of the public away from a hazard area. Representatives from law enforcement and public safety agencies were part of the Connect the Coastside Technical Advisory Committee that reviewed and helped refine the plan proposals.
- In the event of an emergency, public safety agencies such as police and fire will be able to provide emergency information directly to people who have registered for the San Mateo County (SMC) Alert service<sup>54</sup>. These alerts may include life safety, fire, weather, accidents involving utilities or roadways or disaster notifications. For example, the SMC Alert service would be used to notify Coastside employees and citizens of available evacuation routes during an emergency.
- In March of 2019, Supervisor Don Horsley allocated \$75,000 of discretionary Measure K funds to launch the development of a countywide standardized emergency evacuation zone project (Zonehaven). The goals of the project are to reduce the amount of time it takes to notify the public, create a common operating evacuation platform for all jurisdictions, information sharing, and help people to safely and efficiently evacuate in case of an emergency. Since the project began, the CAL FIRE San Mateo Division has worked with every fire and law enforcement agency in San Mateo County to identify over 300 evacuation zones. The project includes a public webpage that shows a map of each evacuation zone and a software application that helps first responders call for

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<sup>54</sup> San Mateo County (SMC) Alert Service - <https://hsd.smcsheriff.com/smcalert>

evacuations using the standard zones. This will greatly reduce the time from when an evacuation is called to when the public is notified. Additionally, the application integrates with Waze and Google Maps, so as soon as a zone is closed people will be directed accordingly. Zonehaven was used to create an Evacuation Zone Map for the CZU Lightning Complex Fire in August 2020. The platform is available at <https://community.zonehaven.com/>

- The County of San Mateo updated its Local Hazard Mitigation Plan (2021) and will update the Safety Element of the General Plan. The County will be working with emergency service providers such as CalFire, the Department of Emergency Management, and the new Flood and Sea Level Rise Resiliency District. These efforts will further evaluate hazard risks and identify safety measures on the Midcoast.

## RECREATIONAL TRAILS

Creating continuous and easily accessible trail systems along the coast was mentioned in many comments during 2020 outreach. Commenters stated support and excitement for the Parallel Trail and seeing improvements that complete the Coastal Trail in the Midcoast. Open space trails, such as the Bay Area Ridge Trail or more isolated segments of the Coastal Trail are unlikely to contribute to significant traffic reduction or circulation improvements; however, they continue to be important destinations for local and regional traffic. Therefore, improvements to trailheads and trail access could help improve circulation on the Midcoast. Connect the Coastside recommends collaborating with partners on projects that could enhance or impact recreational trails including trail crossings, wayfinding, and parking. Notable opportunities are described below.

### *Green Valley Trail*

The Green Valley Trail is a proposed trail segment of the California Coastal Trail on State of California Lands, south of the Devil's Slide Tunnel that connects to the parking area at Gray Whale Cove. The recreational trail would accommodate pedestrians, bicyclists and equestrians on a natural surface trail. The County began the environmental review and permitting process to begin construction in 2016 and encountered regulatory and financial hurdles. For example, several of the permit conditions of approval set by the United States Fish and Wildlife Service are too costly and infeasible to meet with the Parks Department current budget. Parks continues to engage with State partners and other agencies who may be able to take on the construction and management of the Trail and meet requirements.

### *Ohlone-Portola Heritage Trail*

The Ohlone-Portola Heritage Trail in San Mateo County is a proposed recreation trail route system of Class I, II and III bikeways, multi-use trails, riding and hiking trails and sidewalks. The trail would designate 90-miles, tracing the expedition of Spanish explorer, Gaspar de Portolà, and the impacts on and stories of the native Ohlone people. The Trail would begin at the Año Nuevo State Park Visitor Center, pass over Sweeney Ridge, and extends to the State Historic Landmark in Menlo Park. Once completed, the recreational route will link the bayside of San Mateo County with its coastside. The recommended Trail alignment includes segments of the California Coastal Trail and would overlap with the recommended alignment in Connect the Coastside. More information is available on the San Mateo County Parks website:

<https://parks.smcgov.org/ohlone-portol%C3%A1-heritage-trail-project>

### *Bay Area Ridge Trail*

The Bay Area Ridge Trail is envisioned to link the ridges encircling the Bay Area into one continuous 550-mile trail. In 1987, the Greenbelt Alliance, the Golden Gate National Recreation Area, the National Park Service as well as citizen advocates came together to help form the Bay Area Ridge Trail Council. The Bay Area Ridge Trail Council works collaboratively with major land management agencies to advance the trail. To date, about 385 miles of the trail have been built. In June 2020, the San Francisco Public Utilities Commission released a Draft Environmental Impact Report for the Southern Skyline Ridge Trail, a part of the Bay Area Ridge Trail through its Peninsula Watershed Lands. As described earlier, the Highway 92 and Highway 35 intersection (West, Upper) is near the start of the trail and could help connect the two sections of trail. Any improvements to this intersection must consider trail-user needs. More information about the Bay Area Ridge Trail is available at: <https://ridgetrail.org/>

### *Bay to Sea Trail*

The Bay to Sea Trail is envisioned to be a 40-mile continuous trail from the San Francisco Bay, across the Peninsula to the coast. The initiative is led by the Peninsula Open Space Trust (POST) in close partnership with the Midpeninsula Regional Open Space District, California State Coastal Conservancy, and others. The conceptual alignment is south of Highway 92 and ends south of Half Moon Bay. The Bay to Sea Trail, or a separate route closer to Highway 92, could help alleviate some congestion along Highway 92 as noted in project B4. More information about the Bay to Sea Trail is available at: <https://www.baytoseatrail.org/>



# 8. Implementation

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## OVERVIEW

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Implementation of Connect the Coastside will require strong partnerships with actors like Caltrans, other agencies, and ongoing support from the community to work together to find common ground on detailed project designs and funding mechanisms, such as pursuing competitive grants or using existing resources. The implementation horizon of Connect the Coastside is 30 years (through 2050) and some projects, like intersection control at Highways 92 / 35 (upper), are not needed until the traffic conditions warrant them. Some projects, like missing stop signs at side streets, are existing safety concerns that could be implemented in a shorter timeframe. Other projects, like a pedestrian overcrossing, will take longer to implement due to complexity and cost. This chapter describes how the County will approach implementation, including considerations in project design, mechanisms to support implementation, and phased implementation.

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## MOVING A PROJECT TOWARD IMPLEMENTATION

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Moving a project from concept – like those in Connect the Coastside – to implementation is an involved and complex process and can take many years to complete, even for projects that may appear to be “easy” to implement. The following section summarizes key phases to move a project from concept to construction.

### 1. COLLABORATE WITH OTHER ACTORS AND PARTNERS TO ADD PROJECTS TO LOCAL, REGIONAL, AND STATE TRANSPORTATION PLANS.

Connect the Coastside is the first step to position individual projects for implementation because it establishes a coherent mobility vision and priorities for the Midcoast. The projects need to be integrated into local, regional and state transportation plans to ensure they are coordinated with regional projects and become eligible for most sources of funding. Relevant plans include:

- San Mateo County Transportation Authority Strategic Plan
- San Mateo County Congestion Management Plan (C/CAG)
- Plan Bay Area (Sustainable Communities Strategy and Regional Transportation Plan)
- State Transportation Improvement Program
- State Highway Operations and Protection Plan (SHOPP)

Since most of the recommended projects in this Plan are not under the exclusive jurisdiction of the County, the County must collaborate closely with other actors, like Caltrans, and participate in other agencies’ planning processes, like Reimagine SamTrans to achieve successful project implementation.

Figure 11: How Caltrans Builds Projects



Graphic from “How Caltrans Builds Projects,” Office of Project Development Procedures, August 2011. Available at: <https://dot.ca.gov/-/media/dot-media/programs/sustainability/documents/2011-how-caltrans-builds-projects-a11y.pdf>

## 2. PROJECT INITIATION AND PRELIMINARY DESIGN

Developing project designs that address mobility and safety challenges requires staff, funding, and a Project Development Team. The County of San Mateo will, in most cases, need to be the “Project Sponsor” to move projects forward, and would need to use existing funds or grant funds to support this phase. The Project Development Team brings together experts and key agencies together to identify various options that balance specific challenges, like potential environmental impacts, available right-of-way, and others, to identify the most appropriate solution. In order to engage Caltrans on any highway projects, the County would also need to commit to developing a Project Initiation Document (PID). A PID is required by Caltrans and provides stakeholders, decision-makers, and others an understanding of the issues for the proposed transportation project, including potential costs. Through the development of a PID, the project team would evaluate the various options to address challenges; for example, whether the challenges at Cypress Avenue and Highway 1 could be overcome with turn lanes or if an intersection control is needed. The County (or other project sponsor) would need to fund Caltrans oversight of PID preparation.

There are multiple phases to project design, and the design gets refined and more detailed in each successive phase. As each individual project is developed, the Project Development Team must consider:

- Engaging community and agency stakeholders, such as community-based organizations and utilities, in a collaborative scoping and project review process
- Other detailed design recommendations from past plans, such as the Highway 1 Safety and Mobility Study Phases 1 and 2, and consideration of community character
- Conducting additional data gathering and analysis, including traffic demand volumes for modeling
- Characterizing topography, habitat and right-of-way constraints
- Designing for accessibility with minimum design standards (ADA, minimum design for trails, bikeways, bus stops, community desire for wide smooth surfaces)
- Minimizing environmental impacts, e.g., avoiding wetlands, streams, and other sensitive habitats and

incorporating environmentally friendly elements such as green infrastructure and referencing the County's Green Infrastructure Plan<sup>55</sup> and compliance with Local Coastal Program policies protecting sensitive habitats and wildlife and scenic resources

- Overcoming property limitations (right-of-way, property acquisition)
- Evaluating impacts on evacuation and emergency response
- Operations and maintenance (brush, vegetation clearance)
- Climate change impacts (Coastal erosion, sea level rise, impacts of heat/flood)

For projects in Caltrans right of way, the project initiation process will produce a Project Initiation Document, such as a Project Study Report-Project Development Support (PSR-PDS). For all projects, this phase will lead to a preliminary project scope and design and a characterization of environmental impacts, all based in a robust community engagement process.

### 3. IDENTIFY AND SECURE FUNDING FOR IMPLEMENTATION.

Once preliminary designs have been completed, the County and its partners can seek additional funding for the project or allocate existing resources for additional design and implementation. Projects can qualify for competitive grant funds from federal, state, regional sources, or in special cases, funding directly from the State Legislature in the Governor's budget (potential sources are described later in this chapter). The County of San Mateo's Five-Year Capital Improvement Plan (CIP) is a planning tool designed to identify short- and long-term capital improvement needs of the County and align those needs with appropriate financing, scheduling, and implementation. The County Department of Public Works administers the County's Road Fund, which includes state and federal tax monies returned to the County. The County may also commit general funds or voter approved sales tax funds to Connect the Coastside projects.

### 4. CONDUCT ENVIRONMENTAL STUDIES AND DETAILED DESIGN.

Once a project has secured funding for at least project initiation, detailed environmental review and project studies and design can begin. The Project Development Team would refine the preliminary design, and engage in additional engineering, right-of-way and utilities assessments. In addition, individual projects would be assessed under the California Environmental Quality Act (CEQA) and National Environmental Policy Act (NEPA) (if using federal funds). Depending on the scope and scale of the project, the environmental assessment will address impacts to special status plants and wildlife, historic sites, wetlands, visual impacts, and other issues. It may also include a discussion of mitigation measures for those impacts and discuss alternatives to the project. After environmental studies are complete, the Project Development Team would develop Project Approval/Environmental Documentation (PAED) for any Caltrans-related projects. The project would then need to be approved with the selected preferred alternative and environmentally cleared. After that, the Team would move forward with a more detailed design phase (Plans, Specifications, and Estimate or PS&E) with Caltrans.

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<sup>55</sup> [https://www.smcsustainability.org/download/energy-water/SMC-GI-PLAN-Final\\_09-17-19-with-Appendices.pdf](https://www.smcsustainability.org/download/energy-water/SMC-GI-PLAN-Final_09-17-19-with-Appendices.pdf)

## 5. SECURE APPROVALS, AGREEMENTS, AND PERMITS.

After environmental studies and detailed designs are complete, the project must go through final review and approval with the appropriate agencies, including permits. Each project will require a Coastal Development Permit issued by the County of San Mateo (except for a few projects that are outside the Coastal Zone). Other agencies that may need to issue approvals or permits include the Department of Fish and Wildlife, US Army Corps of Engineers, including consultation with the U.S. Fish and Wildlife Service. For highway projects, the County may need to enter into agreements with Caltrans, including addressing long-term maintenance and operations of the project, and securing any necessary encroachment permits.

## 6. CONSTRUCT AND CLOSE-OUT PROJECT.

Once a project is designed, funded, and permitted, it can be constructed. Many infrastructure projects are built by private contractors hired by local government. In order to have a contractor implement the project, the County must engage in a competitive public bidding process. This allows construction companies to compete for a project by responding to a request for proposals (RFP) issued by the County. Once a contract is awarded, the contractor can begin to build the project. Once the project is constructed, the project must be “closed out,” which includes compiling final records including right-of-way improvements completed, as-built plans, updated right-of-way maps, and others.

## 7. PROJECT MAINTENANCE.

All projects require maintenance, which is a considerable cost to the agency responsible. Properly maintained infrastructure is safer, functions better and is more likely to meet its intended purpose.

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## NEXT STEPS

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Several factors influence next steps and the Connect the Coastside's implementation, including:

- **Local Coastal Program:** There are several LCP Policies (2.6, 2.7, 2.9, 2.42, 2.47) that dictate the timing and development of public works facilities to be phased and limited to meet the needs of projected buildout without inducing new development; in short, infrastructure should not be implemented purely to serve a projected need.
- **Funding Timeliness:** Grants are offered by funders on different cycles and are available for different types of projects. The County will need to be opportunistic and match projects that will compete well with funding opportunities.
- **Staff Resources:** Implementation requires County and partner agency staff resources. Available staff will limit the number of projects and programs that can be pursued and managed.
- **Project Cost and Ease of Implementation:** Low project design, capital and permitting costs, and projects with little or no environmental impacts, generally make it easier for a project to be implemented.
- **Multimodal Connectivity:** Projects that fill a gap in existing bicycle, pedestrian or transit networks are of higher importance.
- **Safety and Circulation:** Projects that improve an identified safety concern and/or circulation issue are of higher importance.
- **Coastal Access:** Projects that enhance access to the California coast for all modes of travel are of higher importance.
- **Operations and Maintenance:** Projects that have lower annual expected Operations and Maintenance (O&M) costs will be easier to implement.

Below is the expected implementation timeline based on the considerations above and the 6 phases of implementation: 1) Collaborate, 2) Project Initiation, 3) Secure Funding, 4) Environmental and Design, 5) Approvals and Permits, and 6) Construction. Connect the Coastside's implementation will be reported on annually by County Planning and Building staff. The timeline is subject to change based on staffing, County resources, and grant availability.

Table 33: Project Implementation Timeline

Project #	Project	Near-term (0 to 7 years)	Medium-term (8 to 16 years)	Long-term (17 to 30 years)
R1	SR-1 Shoulder Treatment (Village and Fringe)		Phases 1 - 4	Phases 5 - 6
R2	SR-1 Side Street Stop Signs	Phases 1 - 4	Phases 5 - 6	
R3	Gray Whale Cove Turn and Acceleration Lanes	Phases 1 - 4	Phases 5 - 6	
R4	Highway 1 Turn and Acceleration Lanes at 8 <sup>th</sup> Street		Phases 1 - 4	Phases 5 - 6
R5	16th St / Highway 1 Intersection Control	Phases 1 - 2		Phases 3 - 6
R6	California Ave / Highway 1 Intersection Control	Phases 1 - 2	Phases 3 - 6	
R7	Cypress Ave / Highway 1 Intersection Control	Phases 1 - 2	Phases 3 - 6	
R8	Main Street Traffic Calming and Bike/Ped Connectivity	Phase 1	Phases 2 - 6	
R9	Carlos Street Realignment to 16th Street		Phases 1 - 4	Phases 5 - 6
R10	Carlos Street Traffic Calming	Phase 1	Phases 2 - 6	
R11	Highway 92 / Highway 35 (East, Lower) Intersection Improvements		Phases 1 - 6	
R12	Highway 92 / Highway 35 (West, Upper) Signal			Phases 1 - 6
R13	Highway 92 Truck Signs	Phases 1 - 6		
R14	Highway 92 Left-turn Pockets		Phases 1 - 2	Phases 3 - 6
Pe1	New and Improved Pedestrian Crossings of Highways 1 and 92	Phases 1 - 6 (subset of crossings)	Phases 1 - 6 (subset of crossings)	Phases 1 - 6 (completion)
Pe2	Highway 1 Multimodal Parallel Trail	Phase 1 - 2	Phases 3 - 6	
Pe3	Midcoast Alignment of California Coastal Trail		Phases 1 - 4	Phases 5 - 6
Pe4	Highway 1 Sidewalks in Moss Beach and Montara		Phases 1 - 4	Phases 5 - 6
Pe5	Central Moss Beach Bicycle and Pedestrian Improvements	Phases 1 - 2	Phases 3 - 6	
Pe6	Montara Safe Routes to School		Phases 1 - 6	
Pe7	El Granada Safe Routes to School		Phases 1 - 6	
Pe8	Capistrano Road (South) Intersection Improvements		Phases 1 - 6	
B1	Highway 1 Bikeway	Phase 1	Phases 2 - 6	
B2	Airport Street Bikeway and Princeton Connections	Phases 1 - 2	Phases 3 - 6	
B3	Capistrano Road Bikeway	Phases 1 - 2	Phases 3 - 6	
B4	Highway 92 Bikeway			Phases 1 - 6
B5	Bicycle Parking	Phases 1 - 6		
T1	Transit Stop Improvements	Phase 1	Phases 2 - 6	
T2	Recreational Microtransit	Phase 1	Phases 2 - 6	
T3	Increased Midcoast Bus Service	Phase 1	Phases 2 - 6	
Pa1	Upper Gray Whale Cove Parking Lot Improvements	Phases 1 - 3	Phases 4 - 6	
Pa2	Wayfinding	Phase 1	Phases 2 - 6	

County Planning and Building staff anticipates leading the following actions with the support of other actors and partners within five years of Connect the Coastside’s approval by the Board of Supervisors:

Table 34: Early Implementation Actions

CTC Recommendation	Action
Lot Merger	Continue the practice of reviewing development applications for opportunities to merge contiguously owned parcels.
Transportation Impact Mitigation Fee	Seek funding and commit Planning and Building resources to engage in a nexus study to establish the Transportation Impact Mitigation Fee.
Highway 1 Multimodal Parallel Trail (Pe2)	Complete project implementation for Phase 1 of the trail. Seek funding to begin and complete the detailed planning and design process for the rest of the Multimodal Parallel Trail (from El Granada to Montara).
Highway 1 Pedestrian Crossings (Pe1)	Engage Caltrans and seek funding to begin the design process for at least one Highway 1 pedestrian crossing in each community. Complete the Gray Whale Cove pedestrian crossing.
Highway 1 and Cypress Avenue (R7), Highway 1 and California Avenue (R6)	Complete Project Initiation Documents for the intersections of Highway 1 at Cypress Avenue and at Highway 1 and California Avenue.
Bicycle Parking (B5)	Pursue funding to plan and implement short-term bicycle parking throughout the Midcoast.
Parking Studies	Seek funding for community-engaged planning process to develop specific parking recommendations.
Transit Amenities (T1), Recreational Microtransit (T2), and Increased Midcoast Bus Service (T3)	Engage with SamTrans as part of the Reimagine SamTrans process to begin planning around future service changes, including identifying potential park and rides, opportunities for improved transit stop amenities, and pursuing funding for additional services.
Carlos Street Realignment to 16 <sup>th</sup> Street (R9)	Identify necessary partners and establish working group for a feasibility analysis.
Gray Whale Cove Parking Lot (Pa1)	Evaluate whether lot is candidate for stormwater funding and pursue funding if so.
Gray Whale Cove Turn and Acceleration Lanes (R3)	Continue engagement with Caltrans to add turn and acceleration lanes for Gray Whale Cove parking lot.
Airport Street Bikeway and Princeton Connections (B2)	Seek funding to engage in a planning-level corridor study for 30% design for Airport Street and connected bike and pedestrian accommodations.
Highway 1 Side Street Stop Signs (R2)	Evaluate feasibility of Highway 1 side street stop signs with Caltrans and County Department of Public Works to add projects to repaving schedule.
Highway 92 Truck Signs (R13)	Work with Caltrans to install the trucks use right lane signs.
Sea Level Rise and Planning Efforts	Continue efforts to maintain the current California Coastal Trail alignment with replacement of Medio Creek Bridge, while pursuing funding in partnership with FSLRRD to support planning studies related to Highway 1 and California Coastal Trail realignment to effectively address impacts of sea level rise.
Connect the Coastside Monitoring	Leverage County’s existing web and data infrastructure to make existing and future transportation and development data publicly available for the purpose of informing annual status reports on Connect the Coastside and informational presentation to Midcoast Community Council.



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## EQUITY AND ENGAGEMENT

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Equity is the condition that would be achieved if one's identity no longer predicted, in a statistical sense, how one fares. Equity is one part of justice, and thus includes work to address the root causes of inequities, not just their manifestation. This includes elimination and reversal of policies, practices, attitudes and cultural messages that reinforce differential outcomes by race, sexuality, gender, religion, ability/disability, or socioeconomic status. San Mateo County is committed to advancing equity<sup>56</sup> and hired a Chief Equity Officer in 2021 to help the County engage in the necessary systems and policies change to do so. Necessarily, equity will be central to how transportation projects countywide – and those in Connect the Coastside - will be prioritized and implemented. An equity-driven approach is also central to stakeholder engagement. The County intends to advance equity through future planning and implementation processes of Connect the Coastside by ensuring engagement methods and outreach materials reach a broad range of stakeholders by using appropriate methods and languages.

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## FUNDING AND IMPLEMENTATION MECHANISMS

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This section describes potential project funding sources and other opportunities to further implementation.

### PLANNING-LEVEL COST ESTIMATES

The following section summarizes the planning-level cost estimates of the recommended infrastructure improvements. The total cost for recommended projects is nearly \$77 million. Cost estimates presented are planning-level and conceptual, using unit costs for key construction items, lump sums for environmental engineering, right-of-way acquisition, and utility coordination, and have additional contingency amounts added based on a percentage of total construction costs. As projects undergo further planning as part of the implementation process, assumptions will be revisited and revised which will affect costs. For example, any utility impact costs, such as relocation, will be evaluated in detail in future phases of project design and incorporated into the project's final cost.

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<sup>56</sup> Board of Supervisors page on Equity <https://bos.smcgov.org/equity>

Table 35: Recommended Infrastructure Planning-Level Cost Estimates\*

Number	Project Name	Cost (to nearest \$1,000)
R1A	Highway 1 Shoulder Treatment – Village	\$2,401,000
R1B	Highway 1 Shoulder Treatment – Fringe	\$1,603,000
R2	Highway 1 Side Street Stop Signs	\$27,000
R3	Gray Whale Cove Turn and Acceleration Lanes	\$438,000
R4	Highway 1 Turn and Acceleration Lanes at 8th Street	\$387,000
R5	16th St / Highway 1 Intersection Control	\$5,442,000
R6	California Ave / Highway 1 Intersection Control	\$4,961,000
R7	Cypress Ave / Highway 1 Intersection Control	\$13,983,000
R8	Main Street Traffic Calming and Bicycle/Pedestrian Connectivity	\$655,000
R9	Carlos Street Realignment to 16th Street	\$1,123,000
R10	Carlos Street Traffic Calming	\$329,000
R11	Highway 92 / Highway 35 (East, Lower) Intersection Improvements	\$254,000
R12	Highway 92 / Highway 35 (West, Upper) Intersection Control	\$619,000
R13	Highway 92 Truck Signs	\$2,000
R14	Highway 92 Left-turn Pockets	\$685,000
Pe1A	Highway 1 Uncontrolled Pedestrian Crossings	\$2,262,000
Pe1B	Highway 1 Pedestrian Overcrossing	\$4,804,000
Pe1C	Highway 1 and Coronado St. Improved Pedestrian Crossing	\$121,000
Pe2	Highway 1 Multimodal Parallel Trail	\$9,116,000
Pe3	Midcoast Alignment Completion of California Coastal Trail	\$1,951,000
Pe4	Highway 1 Sidewalks in Moss Beach and Montara	\$568,000
Pe5	Central Moss Beach Bicycle and Pedestrian Improvements	\$65,000
Pe6	Montara Safe Routes to School	\$310,000
Pe7	El Granada Safe Routes to School	\$1,162,000
Pe8	Capistrano Road (South) Intersection Improvements	\$256,000
B1	Highway 1 Bikeway	\$5,908,000
B2	Airport Street Bikeway and Princeton Connections	\$2,017,000
B3	Capistrano Road Bikeway	\$297,000
B4	Highway 92 Bikeway	\$4,833,000
B5	Bicycle Parking	\$340,000
T1	Transit Stop Improvements	\$4,274,000
T2A	Recreational Microtransit (Fixed Costs)	\$1,260,000
T2B	Recreational Microtransit (Annual Operating Costs) <sup>1</sup>	\$926,000
T3A	Increased Midcoast Bus Service (Fixed Costs)	\$3,060,000
T3B	Increased Midcoast Bus Service (Annual Operating Costs) <sup>1</sup>	\$3,400,000
Pa1	Upper Gray Whale Cove Parking Lot Improvements	\$1,219,000
Pa2	Wayfinding	\$185,000
<b>TOTAL<sup>1*</sup></b>		<b>\$76,917,000</b>

\*Cost estimates are planning-level and preliminary and subject to change

<sup>1</sup>Total excludes annual operating costs for transit service (T2B and T3B)

## ADVANCING IMPLEMENTATION THROUGH COORDINATION AND PARTNERSHIPS

Partnerships with agencies, like Caltrans, Half Moon Bay, and others, along with community stakeholders, such as the MCC, community-based organizations, and private sector partners are critical to compete for grant funding opportunities and successfully implement projects. Below are examples of how the County will collaborate with key partners.

### *Half Moon Bay*

The City of Half Moon Bay has been a partner in the development of Connect the Coasts and is aligned in approaches to address transportation issues on the coast. This includes:

- **Focusing on walking and bicycling:** Half Moon Bay's Local Coastal Land Use Plan (LCLUP)<sup>57</sup>, Bicycle and Pedestrian Master Plan<sup>58</sup>, and Five-Year Capital Improvement Program (CIP)<sup>59</sup> include a suite of policies, programs, and projects to improve circulation. In particular, the Town Boulevard (LCLUP beginning on p.3-32) is a new vision for the segments of Highway 1 and Highway 92 within Half Moon Bay city limits. The Town Boulevard intends to create a slower, safer, and contextually appropriate roadway to better serve residents and visitors through changes that could include safer crossings, lower speed limits, landscaping, and intersection improvements. Half Moon Bay is also constructing the Eastside Parallel Trail Expansion (CIP, p.140), a Class 1 multi-use path parallel to Highway 1 from Roosevelt Boulevard to Mirada Road, which will connect to the County's Multimodal Parallel Trail from Mirada Road to Coronado Street.
- **Expanding transportation performance standards.** Per the San Mateo County Congestion Management Program, Half Moon Bay and the County continue to use level of service (LOS) as one transportation performance metric. Similar to feedback received during Connect the Coasts' engagement process, stakeholders in Half Moon Bay identified the need for performance standards that take into account other travel modes and better measure the travel experience. Half Moon Bay's LCLUP includes a policy to study additional or alternative traffic performance standards such as the delay index (LCLUP p.3-31, p.3-47).
- **Addressing safety and emergency preparedness.** Like the County, the City of Half Moon Bay is updating the Safety Element<sup>60</sup> of its General Plan<sup>61</sup>. The Safety Element is one of seven General Plan elements required by the State of California and covers the topics of hazards, airport safety, emergency preparedness, and public safety services. The County and the City of Half Moon Bay, along with other jurisdictions in San Mateo County, are

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<sup>57</sup> Half Moon Bay Local Coastal Program and Land Use Plan. <https://www.half-moon-bay.ca.us/154/Local-Coastal-Program-Land-Use-Plan> (Accessed April 2021)

<sup>58</sup> Half Moon Bay Bicycle and Pedestrian Master Plan and Implementation Program. <https://www.half-moon-bay.ca.us/640/Bicycle-Pedestrian-Master-Plan> (Accessed April 2021)

<sup>59</sup> Half Moon Bay Five-Year Capital Improvement Program (FY 2020-21 to FY 2024-25). <https://www.half-moon-bay.ca.us/DocumentCenter/View/1758/CURRENT-CIP?bidId=> (Accessed April 2021)

<sup>60</sup> First Public Review Draft Half Moon Bay Chapter 6 – Safety Element. <https://www.half-moon-bay.ca.us/DocumentCenter/View/2331/First-Public-Review-Draft-Chapter-6-Safety-Element> (Accessed April 2021)

<sup>61</sup> Plan Half Moon Bay. <https://planhmb.org/> (Accessed April 2021)

updating the Multijurisdictional Local Hazard Mitigation Plan, which plans for the reduction of risk from natural and man-made disasters<sup>62</sup>.

- **Growth management.** Half Moon Bay's LCLUP (p.2-21) includes similar growth management strategies that support reduced traffic impacts, including lot merger and development impact fees, among others.

In addition to the above, the City of Half Moon Bay and County coordinate to provide feedback to regional partners such as Caltrans, C/CAG and the San Mateo County Transit District, exchange stakeholders' transportation concerns, and support each other's project development. The City of Half Moon Bay and County see opportunities to deepen collaboration through the implementation of Connect the Coastside by:

- Coordinating key projects that are at the city/county border; for example, Half Moon Bay's LCLUP and Connect the Coastside both identify the need for crossings at Surfer's beach and Mirada Road, studying the long-term alignment of the Coastal Trail to protect it from erosion and sea level rise, and trail improvements at Surfer's Beach to avoid erosion and protect Highway 1.
- Seeking opportunities to collaborate on requests for funding, including project scoping, grant application preparation, and community engagement.
- Continuing discussions to coordinate data collection and sharing to support transportation and growth monitoring, evaluation, and reporting.
- Coordinating on future parking studies, including exploring technology to foster better parking management.
- Developing best management practices and a coordinated approach to address traffic control for high-trip generating events.

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<sup>62</sup> Multijurisdictional Local Hazard Mitigation Plan. <https://cmo.smcgov.org/multijurisdictional-local-hazard-mitigation-plan> (Accessed May 2021)

### *Caltrans*

Caltrans is a key partner in realizing implementation of Connect the Coastside. Caltrans staff participated in the Plan's Technical Advisory Committee and the Connect the Coastside project team communicated regularly with Caltrans' staff regarding the plan throughout its development. In general, Caltrans and the County coordinate through various approval processes. For example, Caltrans coordinates with the County to secure approvals for all projects within the Coastal Zone and the County must secure encroachment permits from Caltrans for County-led projects in Caltrans right-of-way. Caltrans also assesses the consistency of projects with the San Mateo County Local Coastal Program as part of relevant projects' environmental review.<sup>63</sup> Caltrans and the County see opportunities for enhanced collaboration moving forward by continuing to meet quarterly to discuss projects. The County will continue to work with Caltrans to provide input on appropriate data to collect and collection methods to inform project development and roadway performance measures and standards and ensuring County staff is invited to participate in Caltrans-led advanced planning projects.

### *Utility Providers*

Utility providers and authorities like Sewer Authority Mid-Coastside Granada Community Services District, Montara Water and Sanitary District, Coastside County Water District, and Pacific Gas and Electric Company are responsible for infrastructure both above and under the ground. As such, providers often engage the County to secure permits for work. Changes to facilities can be a prime opportunity to implement recommendations in the Connect the Coastside; for example, if a sewer pipe needs to be accessed necessitating excavation of the roadway, the road can be repaved in a manner to help implement this Plan's recommendations. Similarly, a roadway project could be an opportunity to address utility maintenance. Some infrastructure recommendations in Connect the Coastside will need to be coordinated with utility providers to assess the full scope of potential utility impacts, identify alternatives and mitigations, and address impacts as part of the project design and funding plan. Specifically, the recommended intersection control at 16<sup>th</sup> Street and Highway 1 (R5) and the Carlos Street Realignment to 16<sup>th</sup> Street (R9) must address potential impacts to high-pressure underground sewer lines as part of future assessments. The County will continue to work with utility providers to implement the recommendations in Connect the Coastside and invites providers to proactively engage County staff to identify opportunities for implementation based on their capital improvement programs.

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<sup>63</sup> Caltrans District 4 Environmental Documents by County. <https://dot.ca.gov/caltrans-near-me/district-4/d4-popular-links/d4-environmental-docs> (Accessed April 2021)

## FUNDING AND IMPLEMENTATION SOURCES

Many funding sources prioritize allocating resources for disadvantaged communities to work towards rectifying past planning and policy practices that have led to vast inequities. Federal and State goals also prioritize addressing climate change and improving community health by reducing greenhouse gas emissions; therefore, many grant resources also prioritize areas with high population density near high quality transit and locations with demonstrated transportation safety concerns. Projects in Connect the Coastside may not compete as readily for these opportunities given its current conditions. Opportunities to further implementation of Connect the Coastside's recommendations, beginning with the most likely opportunities, are listed below.

Table 36: Priority Funding Sources

Source	Description	Potentially Eligible Projects	Website
<b>1. Coastal Conservancy Grants</b>	Administered by the California Coastal Conservancy, grants are provided to non-profit organizations and public agencies for projects that restore and protect the California coast and increase public access to it. Grants are awarded through a standing pre-proposal solicitation and through scheduled grant rounds. This includes disbursements from Proposition 1, Prop 68, and the Greenhouse Gas Reduction Fund. Funds focus on ecosystem and watershed protection, restoration projects, rivers and wetlands and protection, and climate adaptation.	Coastal trail, Multimodal Parallel Trail	<a href="https://scc.ca.gov/grants/">https://scc.ca.gov/grants/</a> and <a href="https://scc.ca.gov/grants/grant-programs/">https://scc.ca.gov/grants/grant-programs/</a>
<b>2. State Highway Operation and Protection Program (SHOPP)</b>	Led by Caltrans, the SHOPP is the State Highway System’s “fix it first” program that funds the repair and preservation, emergency repairs, safety improvements, and some highway operational improvements on the State highway system. Caltrans leads the submission of eligible projects.	Highway pedestrian crossings, acceleration/turn lanes	<a href="https://dot.ca.gov/programs/financial-programming/state-highway-operation-protection-program-shopp-minor-program-shopp">https://dot.ca.gov/programs/financial-programming/state-highway-operation-protection-program-shopp-minor-program-shopp</a>
<b>3. California Office of Traffic Safety Grants (OTS)</b>	Administered annually by the California Office of Traffic Safety, OTS grants are for traffic-safety education, awareness, and enforcement programs aimed at specific issues and behaviors (like distracted or drugged driving) that can lead to serious injuries and fatalities on roads.	Traffic safety campaigns to address speeding	<a href="https://www.ots.ca.gov/grants/">https://www.ots.ca.gov/grants/</a>
<b>4. Recreational Trails Program (RTP)</b>	Administered by the California Department of Parks and Recreation, this program supports trail maintenance, building, restoration, trailhead facilities, and maintenance equipment. The program is being updated and is usually available annually.	Coastal Trail, Multimodal Parallel Trail	<a href="https://www.parks.ca.gov/?page_id=24324">https://www.parks.ca.gov/?page_id=24324</a>
<b>5. Transportation Funds for Clean Air (TFCA)</b>	Administered by the Bay Area Air Quality Management District and C/CAG, this program funds projects that improve air quality. Eligible projects are broad and can include shuttle, vanpool, or smart growth projects; alternative vehicles; bikeways; signal timing; and engine replacement.	Bike and pedestrian infrastructure, and recreational shuttles	<a href="https://www.baaqmd.gov/funding-and-incentives/funding-sources/regional-fund">https://www.baaqmd.gov/funding-and-incentives/funding-sources/regional-fund</a> and <a href="https://www.baaqmd.gov/funding-and-incentives/public-agencies/county-program-manager-fund">https://www.baaqmd.gov/funding-and-incentives/public-agencies/county-program-manager-fund</a>

<b>6. Vehicle Trip Reduction Grant Program</b>	Administered by the Bay Area Air Quality Management District, the Vehicle Trip Reduction Grant Program provides funding to support projects that improve air quality and reduce greenhouse gas emissions by reducing vehicle trips and miles traveled in the Bay Area. Eligible projects include transportation service projects to reduce single-occupancy vehicle use, shuttle service, and bike facilities.	Bike and pedestrian infrastructure, and recreational shuttles	<a href="https://www.baaqmd.gov/?sc_itemid=B056735B-74BD-4CD0-A744-936A1CFD05A3">https://www.baaqmd.gov/?sc_itemid=B056735B-74BD-4CD0-A744-936A1CFD05A3</a>
<b>7. Storm Water Grant Program (Prop 1)</b>	Administered by the State Water Resources Control Board, this program distributes approximately \$200 million statewide for the development of Storm Water Resource Plans and multi-benefit storm water management programs including green infrastructure, rainwater, and storm water capture projects.	Parking lot improvements, if includes green infrastructure	<a href="https://www.waterboards.ca.gov/water_issues/programs/grants_loans/swgp/prop1/">https://www.waterboards.ca.gov/water_issues/programs/grants_loans/swgp/prop1/</a>
<b>8. Transportation Development Act Article 3 (TDA Article 3)</b>	Administered annually by C/CAG using pass-through funding from MTC, this program funds projects to encourage walking and bicycling. TDA Article 3 funds are derived from Local Transportation Funds (LTF, which is a ¼ cent statewide sales tax) and State Transit Assistance funds (state sales tax on gasoline and diesel fuel). Eligible projects include construction of bike/ped projects, planning, and restriping bike lanes.	Bike and pedestrian infrastructure	<a href="https://mtc.ca.gov/our-work/fund-invest/investment-strategies-commitments/transit-21st-century/funding-sales-tax-and-0">https://mtc.ca.gov/our-work/fund-invest/investment-strategies-commitments/transit-21st-century/funding-sales-tax-and-0</a>
<b>9. Measure A</b>	The San Mateo County Transportation Authority (TA) was formed in 1998 with the passage of the voter-approved half-cent sales tax for countywide transportation projects and programs, known as Measure A which is authorized through 2033. The TA administers the Measure A funds through various calls for projects every two years.	Bike and pedestrian infrastructure, and transit projects	<a href="https://www.smcta.com/about/Measure_A.html">https://www.smcta.com/about/Measure_A.html</a>
<b>10. Measure W</b>	Measure W is a voter-approved half-cent sales tax (passed in 2018) that provides additional resources to improve transit and relieve traffic congestion. The funds are administered by the San Mateo County Transportation and SamTrans Board of Directors. The TA Strategic Plan guides project evaluation and can fund highway projects, local street repair, expanded bicycle and pedestrian facilities, and improved transit connections. Call for projects typically happen every two years.	Bike and pedestrian infrastructure, transit projects, acceleration/turn lanes	<a href="https://www.smcta.com/about/Measure_W.html">https://www.smcta.com/about/Measure_W.html</a>
<b>11. San Mateo County Safe Routes to School</b>	Administered by C/CAG and the San Mateo County Office of Education, this program intends to increase the number of students able to walk and bike to school. Funds are available to school districts for education, enforcement and promotion/encouragement activities, evaluation and project coordination; and for small capital projects.	Safe Routes to School	<a href="https://www.smcoe.org/for-schools/safe-and-supportive-schools/safe-routes-to-school/">https://www.smcoe.org/for-schools/safe-and-supportive-schools/safe-routes-to-school/</a> and <a href="https://ccag.ca.gov/programs/transportation-programs/safe-routes-to-school/">https://ccag.ca.gov/programs/transportation-programs/safe-routes-to-school/</a>



<b>12. San Mateo County Bicycle Parking Reimbursement Program</b>	Administered by Commute.org with funds from C/CAG, San Mateo County Transportation Authority, and Bay Area Air Quality Management District, this program reimburses applicants up to 50% of the total cost of purchasing and installing bicycle parking facilities up to \$500/unit with a \$5,000 cap per applicant per fiscal year.	Bicycle parking	<a href="https://www.commute.org/employer-services/179-bike-parking-at-half-cost">https://www.commute.org/employer-services/179-bike-parking-at-half-cost</a>
<b>13. San Mateo County Road Fund</b>	The Road Fund was established by the Boards of Supervisors in 1935, in accordance with Streets and Highways Code section 1622, for all amounts paid to the county out of money derived from the Highway Users Tax Fund. A portion of the Federal Forest Reserve revenue received by the county also is required to be deposited into the Road Fund (Government Code section 29484). In addition, the Board may authorize the deposit of other sources of revenue into the Road Fund. Once money is deposited into the Road Fund, it is restricted to expenditures made in compliance with Article XIX of the California Constitution and Streets and Highways Code sections 2101 and 2150. The fund is largely administered by the Department of Public Works.	Various	<a href="https://publicworks.smc.gov/our-organization">https://publicworks.smc.gov/our-organization</a>  <a href="https://www.sco.ca.gov/aud_rfa_2016.html">https://www.sco.ca.gov/aud_rfa_2016.html</a>

Table 37: Secondary Funding Sources

Source	Description	Website
<b>1. Federal Lands Access Program (FLAP)</b>	The Federal Lands Access Program (Access Program) was established in 23 U.S.C. 204 to improve transportation facilities that provide access to, are adjacent to, or are located within Federal lands. The Access Program supplements State and local resources for public roads, transit systems, and other transportation facilities, with an emphasis on high-use recreation sites and economic generators. Projects are selected by a Programming Decision Committee (PDC) established in each State. The PDCs request project applications through a call for projects. The frequency of the calls is established by the PDCs. This program has funded transportation improvements in relevant areas, including roundabouts and bridges.	<a href="https://highways.dot.gov/federal-lands/programs-access">https://highways.dot.gov/federal-lands/programs-access</a>
<b>2. Better Utilizing Investments to Leverage Development (BUILD) Grant (Formerly TIGER)</b>	Administered annually by the United States Department of Transportation (USDOT), BUILD (formerly TIGER) is a nationally competitive grant for capital investments on surface transportation projects that achieve a significant impact for a metropolitan area, region, or the nation. Eligible projects include roads, bridges, transit, rail, ports, or intermodal transportation.	<a href="https://www.transportation.gov/BUILDgrants">https://www.transportation.gov/BUILDgrants</a>

<b>3. Congestion Management &amp; Air Quality (CMAQ)</b>	Administered annually by the Federal Highway Administration (FHWA), CMAQ provides funding for state and local governments for transportation programs and projects that support the Clean Air Act, improving air quality and providing congestion relief. Eligible projects include bikeways, alternative fuel infrastructure, and diesel engine retrofits.	<a href="https://www.fhwa.dot.gov/environment/air_quality/cmaq/">https://www.fhwa.dot.gov/environment/air_quality/cmaq/</a>
<b>4. Surface Transportation Block Grant (STBG) Program</b>	Administered by the Federal Highway Administration, this program funds projects to preserve and improve the conditions and performance on any Federal-aid highway, bridge and tunnel projects on any public road, pedestrian and bicycle infrastructure, and transit capital projects, including intercity bus terminals. STBG supports California’s local Highway Bridge Program.	<a href="https://www.fhwa.dot.gov/specialfunding/stp/">https://www.fhwa.dot.gov/specialfunding/stp/</a> and <a href="https://www.fhwa.dot.gov/fastact/factsheets/stbgfs.cfm">https://www.fhwa.dot.gov/fastact/factsheets/stbgfs.cfm</a>
<b>5. California Active Transportation Program (ATP)</b>	Administered every two years by the California Transportation Commission (CTC) and Caltrans, the ATP consolidates of former federal and state programs to fund planning, programs, and infrastructure that support safe walking and bicycling. A strong preference is given to projects in disadvantaged communities and with demonstrated safety issues. Eligible projects include bicycle and pedestrian capital infrastructure, non-infrastructure (encouragement, education programs), and jurisdiction-wide active transportation plans.	<a href="https://catc.ca.gov/programs/active-transportation-program">https://catc.ca.gov/programs/active-transportation-program</a> and <a href="https://dot.ca.gov/programs/local-assistance/fed-and-state-programs/active-transportation-program">https://dot.ca.gov/programs/local-assistance/fed-and-state-programs/active-transportation-program</a>
<b>6. Regional Active Transportation Program</b>	Administered by the Metropolitan Transportation Commission (MTC), this is the companion program to the statewide ATP.	<a href="https://mtc.ca.gov/our-work/invest-protect/investment-strategies-commitments/protect-our-climate/active-transportation">https://mtc.ca.gov/our-work/invest-protect/investment-strategies-commitments/protect-our-climate/active-transportation</a>
<b>7. California Sustainable Transportation Equity Project (STEP)</b>	Administered as a pilot project by the California Air Resources Board (CARB), STEP is a transportation equity pilot project for Fiscal Year 2019-20 that aims to increase transportation equity in disadvantaged and low-income communities by addressing community residents’ transportation needs, increasing access to key destinations, and reducing greenhouse gas emissions by funding planning, clean transportation, and supporting projects. Eligible projects include subsidizing active transportation with new bicycle and pedestrian infrastructure.	<a href="https://ww2.arb.ca.gov/our-work/programs/low-carbon-transportation-investments-and-air-quality-improvement-program-1">https://ww2.arb.ca.gov/our-work/programs/low-carbon-transportation-investments-and-air-quality-improvement-program-1</a>
<b>8. Clean Mobility Options (CMO)</b>	Administered annually by CARB, the Clean Mobility Options Voucher Pilot Program provides voucher-based funding for zero-emission carsharing, car- and van-pooling, bike- and scooter-sharing, innovative transit services, and ride-on-demand services in California’s historically underserved communities. Eligible projects must be in a disadvantaged community, tribal land, or serves a deed-restricted affordable housing facility within an AB 1550 low-income community.	<a href="https://www.cleanmobilityoptions.org/">https://www.cleanmobilityoptions.org/</a>

<b>9. Sustainable Transportation Planning Grants</b>	Administered annually by Caltrans, Sustainable Transportation Planning Grants fund planning for studies and preliminary design to identify and evaluate projects that further statewide sustainability goals. Eligible projects include corridor studies, pilot projects, community engagement, and more.	<a href="https://dot.ca.gov/programs/transportation-planning/regional-planning/sustainable-transportation-planning-grants">https://dot.ca.gov/programs/transportation-planning/regional-planning/sustainable-transportation-planning-grants</a>
<b>10. Highways Safety Improvement Program (HSIP)</b>	Administered every few years by the Caltrans Division of Local Assistance, Caltrans manages California's local agency share of federal HSIP funds to reduce fatalities and serious injuries on all public roads. HSIP projects should be identified based on crash experience, crash potential, crash rate, and other data. Eligible projects include safety-related pedestrian, bikeway, or roadway projects.	<a href="https://dot.ca.gov/programs/local-assistance/fed-and-state-programs/highway-safety-improvement-program">https://dot.ca.gov/programs/local-assistance/fed-and-state-programs/highway-safety-improvement-program</a>
<b>11. Transit and Intercity Rail Capital Program (TIRCP)</b>	Administered by the California State Transportation Agency (CalSTA), this program funds capital improvements that modernize California's intercity rail, bus, ferry, and rail systems to reduce greenhouse gas emissions, expand transit service to increase ridership, and improve transit safety. Eligible projects include bus transit improvements, including vanpool services operated as public transit and first-/last-mile solutions.	<a href="https://calsta.ca.gov/subject-areas/transit-intercity-rail-capital-program">https://calsta.ca.gov/subject-areas/transit-intercity-rail-capital-program</a>
<b>12. State Transportation Improvement Program (STIP)</b>	Administered every two years by the California Transportation Commission, the State Transportation Improvement Program (STIP) is the biennial five-year plan adopted by the CTC for future allocations of certain state transportation funds for state highway improvements, intercity rail, and regional highway and transit improvements. State law requires the Commission to update the STIP biennially, in even-numbered years, with each new STIP adding two new years to prior programming commitments. Projects need to be nominated in the Regional Transportation Improvement Program (RTIP) to be eligible for the STIP. C/CAG submits projects from San Mateo County to the Metropolitan Transportation Commission for proposed inclusion in the RTIP to the State.	<a href="https://catc.ca.gov/programs/state-transportation-improvement-program">https://catc.ca.gov/programs/state-transportation-improvement-program</a>
<b>13. State-Local Partnership Program (LPP)</b>	Administered by the California Transportation Commission, the LPP provides funding to jurisdictions in which voters have approved fees or taxes dedicated solely to transportation. Funding is distributive through competitive and formulaic programs and must be matched by the local jurisdiction. Eligible projects include state highway system rehabilitation, improvements to transit facilities, local roads, bicycle and pedestrian safety, and more.	<a href="https://catc.ca.gov/programs/sb1/local-partnership-program">https://catc.ca.gov/programs/sb1/local-partnership-program</a>
<b>14. Affordable Housing and Sustainable Communities Program (AHSC)</b>	Administered annually by the California Strategic Growth Council (SGC), this program is available to government agencies, developers, and non-profits to fund affordable housing combined with multimodal improvements aimed to reduce greenhouse gas emissions and advance sustainability goals. Eligible projects include affordable housing construction, bicycle, pedestrian, and transit improvements near the affordable housing.	<a href="https://sgc.ca.gov/programs/ahsc/">https://sgc.ca.gov/programs/ahsc/</a>

<b>15. Transformative Climate Communities Program (TCC)</b>	Administered by the Strategic Growth Council and Department of Conservation every few years, TCC funds community-led development and infrastructure projects with economic, environmental, and health benefits to disadvantaged communities and those disproportionately burdened by pollution. Eligible projects include bicycle and pedestrian improvements, bike share programs, and others.	<a href="https://sgc.ca.gov/programs/tcc/">https://sgc.ca.gov/programs/tcc/</a>
<b>16. Environmental Enhancement and Mitigation Grant Program (EEMP)</b>	Administered annually by the California Natural Resources Agency, this program funds government and non-profit organizations to mitigate the environmental impacts caused by new or modified transportation facilities.	<a href="https://resources.ca.gov/grants/environmental-enhancement-and-mitigation-eem/">https://resources.ca.gov/grants/environmental-enhancement-and-mitigation-eem/</a>
<b>17. Urban Greening Grant Program</b>	Administered annually by the California Natural Resources Agency, this statewide grant program allocates cap-and-trade dollars to projects that reduce greenhouse gas emissions, particularly in disadvantaged communities. Eligible projects include bike and pedestrian facilities, conversion of built environment into green space, and incorporates green infrastructure.	<a href="https://resources.ca.gov/grants/urban-greening/">https://resources.ca.gov/grants/urban-greening/</a>
<b>18. Recreational Trails and Greenways Grant Program</b>	Administered by the California Natural Resources Agency, this program funds projects that expand access to the outdoors and boost recreational opportunities for communities and prioritizes disadvantaged communities. Eligible projects include non-motorized infrastructure that promotes access to parks, waterways, and outdoor recreational areas.	<a href="https://resources.ca.gov/grants/trails">https://resources.ca.gov/grants/trails</a>
<b>19. Local Streets and Roads Program (LSR)</b>	Administered annually by the California Transportation Commission, the LSR program apportions revenue from SB 1 (\$1.5 billion statewide) to jurisdictions for basic road maintenance, rehabilitation, and safety projects. Jurisdictions submit proposed project lists to the CTC for review and approval.	<a href="https://catc.ca.gov/programs/sb1/local-streets-roads-program">https://catc.ca.gov/programs/sb1/local-streets-roads-program</a>
<b>20. Solutions for Congested Corridors (SCCP)</b>	Administered annually by the California Transportation Commission, this program aims to reduce congestion throughout California, focusing on multimodal corridor improvements and prioritizing safety, congestion, accessibility, economic development, and air pollution/GHG reductions.	<a href="https://catc.ca.gov/programs/sb1/solutions-for-congested-corridors-program">https://catc.ca.gov/programs/sb1/solutions-for-congested-corridors-program</a>
<b>21. One Bay Area Grant Program (OBAG)</b>	Administered every five years by the Metropolitan Transportation Commission (MTC), this grant program distributes federal funds to Congestion Management Agencies (in San Mateo County, C/CAG) to advance regional goals. Funds can be used for streetscape enhancements, local road maintenance, bicycle and pedestrian improvements, and more.	<a href="https://mtc.ca.gov/our-work/fund-invest/investment-strategies-commitments/focused-growth/one-bay-area-grants">https://mtc.ca.gov/our-work/fund-invest/investment-strategies-commitments/focused-growth/one-bay-area-grants</a>
<b>22. Measure M San Mateo County Vehicle Registration Fee</b>	Measure M was approved by voters in 2010 and imposes a \$10 fee on vehicles registered in San Mateo County. Administered by C/CAG, 50% of funds are allocated to jurisdictions for local streets and roads, and 50% is used for countywide transportation programs such as transit, regional congestion management, and safe routes to school.	<a href="https://ccag.ca.gov/funding/measure-m/">https://ccag.ca.gov/funding/measure-m/</a>

<p><b>23. Lifeline Transportation Program (LTP)</b></p>	<p>Administered by C/CAG through funds from the Metropolitan Transportation Commission, this program funds community-based transportation projects that are developed through a collaborative process. Projects must address transportation gaps or barriers identified in plans, and specifically, address low-income and disadvantaged neighborhood needs.</p>	<p><a href="https://mtc.ca.gov/our-work/fund-invest/investment-strategies-commitments/transit-21st-century/lifeline-transportation">https://mtc.ca.gov/our-work/fund-invest/investment-strategies-commitments/transit-21st-century/lifeline-transportation</a></p>
<p><b>24. Measure K</b></p>	<p>Measure K is a countywide half-cent sales tax extension passed by local voters in November 2016 to support essential County services and to maintain or replace critical facilities. Measure K funds are allocated in three ways: 1) through the County’s two-year budget cycle, 2) through mid-year adjustments to address emerging needs not anticipated at the time the budget was adopted, and 3) for one-time loans or grants to fill specific needs as recommended by a member of the Board of Supervisors. Funds can be used for addressing the effects of sea level rise, keeping County parks open, maintaining health care for low-income children, seniors, and people with disabilities, and maintaining paratransit services.</p>	<p><a href="https://cmo.smcgov.org/measure-k-frequently-asked-questions">https://cmo.smcgov.org/measure-k-frequently-asked-questions</a></p>
<p><b>25. Regional Measures 1, 2 and 3</b></p>	<p>Approved by voters in 1988, 2004, and 2016, Regional Measures 1, 2, and 3 allocate tolls on state-owned toll bridges and are used to finance state highway and transit improvements. Projects in the approved expenditure plan for RM 3 include more frequent transbay bus service, interchange improvements, expanded express lane network, and others.</p>	<p><a href="https://mtc.ca.gov/our-work/invest-protect/toll-funded-investments">https://mtc.ca.gov/our-work/invest-protect/toll-funded-investments</a> and <a href="https://mtc.ca.gov/our-work/fund-invest/toll-funded-investments/regional-measure-3">https://mtc.ca.gov/our-work/fund-invest/toll-funded-investments/regional-measure-3</a></p>

Other opportunities include:

- **Road Maintenance and Repaving:** Road maintenance and repaving creates an opportunity to change the way a street looks and functions; for example bike lanes or marked crosswalks can be more easily added when a street is undergoing maintenance. Senate Bill 1 Road Repair and Accountability Act of 2017 (which funds in part the San Mateo County Road Fund) increases the amount of revenue local jurisdictions will receive for local street maintenance and rehabilitation. Funds are generated through an increase in the gas and diesel excise tax, among others. Most revenues will be allocated on a per capita basis and come out of a Road Maintenance and Rehabilitation Account (RMRA), where jurisdictions will have to prioritize fixing existing infrastructure first and provide an adopted list of projects by the California Transportation Commission. To learn more about SB 1, see <https://cmo.smcgov.org/faqs-road-repair-and-accountability-act-senate-bill-1>, <https://www.cacities.org/Policy-Advocacy/Hot-Issues/Transportation-Funding> and [https://sco.ca.gov/Files-AUD/gas\\_tax\\_guidelines31219.pdf](https://sco.ca.gov/Files-AUD/gas_tax_guidelines31219.pdf).
- **Other Agency Partnerships:** As described in the Actors, Partners, and Stakeholders chapter, there are other decision-making bodies, agencies, and partners that can further implementation of Connect the Coastsides, such as the City of Half Moon Bay, Granada Community Services District, Montara Water and Sanitary District, Caltrans, Midpeninsula Regional Open Space District, and others. These entities build and maintain infrastructure in the Midcoast and may incorporate Connect the Coastsides' recommendations into their future planning and implementation efforts.
- **Foundations, Private Sector, and Non-profit Partners:** Aside from public sector partners, foundations and private and non-profit partners are often interested in funding projects and programs that align with their interests and goals. Potential foundations can be found here: <https://ncg.org/directory>
- **Development:** In some cases, the County can impose conditions on new development that can help incrementally implement Connect the Coastsides and keep with its goals. Examples include providing or complete sidewalks, public bicycle parking, public vehicle parking, and others.
- **Transportation Impact Mitigation Fee:** The proposed Transportation Impact Mitigation Fee is a key opportunity to raise funds to implement projects in Connect the Coastsides and is detailed further on the next page.

## TRANSPORTATION IMPACT MITIGATION FEE (TIMF)

### *What is a TIMF?*

A transportation impact mitigation fee is a type of development impact fee and is a way to collect a proportional share of funds from new development to offset transportation impacts of that new development. The TIMF program could collect fees for new residential and non-residential development on a per-housing-unit basis for residential and per-square-foot basis for non-residential development.

### *How is a TIMF established?*

In order to establish a Transportation Impact Mitigation Fee, the County will need to document the “nexus” or linkage between the fees being charged to new development, the impacts of that new development, and cost allocation. These legal requirements are in California Government Code sections 66000-66025, commonly called the “Mitigation Fee Act” or “AB 1600.” Only a portion of Connect the Coastside’s recommended projects’ costs can be allocated to new development because some of the locations in the Study Area are already deficient without the addition of new development. The nexus study would show the specific connection between the transportation project need and the new development. Adoption of a TIMF would require completion of a nexus study and adoption of a fee program by the Board of Supervisors and would not go into effect automatically if Connect the Coastside is adopted.

### *How much money would a TIMF generate for transportation?*

The total amount of money generated by a TIMF is dependent upon how much development ultimately gets built and the fee imposed. The justifiable calculation for the TIMF is based on the amount of forecasted development, the cost of projects needed to address the impacts of the forecasted development, and the allocation of a fee per housing unit (or per square foot for commercial). All the forecasted development, in the amount estimated by each land use type, would have to occur in order to generate the full funds needed.

### *What happens if the TIMF does not move forward?*

Without the adoption of a TIMF, proposed developments of a certain size would cause transportation impacts where they could be required to fund transportation improvements; these projects are evaluated on a case-by-case basis. Smaller projects may not be required to fund transportation improvements. The County, other actors, and partners would still pursue implementation of projects using other sources of revenue and grants.

### *What can a TIMF be spent on?*

Transportation impact fees can be used to fund a variety of transportation improvements, which help to mitigate or “offset” transportation impacts. By law, these fees cannot go to a general fund. The final nexus study would include a final project list. Cities in California have used fees to fund transit services, bicycle and pedestrian infrastructure, transportation demand management programs, roadway improvements, and other fee-eligible projects.

### *How is a TIMF calculated?*

The level of funding that might be available from a transportation impact mitigation fee program can be estimated using:

- (1) **Transportation Project List** – Projects to be included in the fee program and their cost estimates
- (2) **Forecast of Future Land Use** - The potential for new residential units and new nonresidential uses within the Study Area
- (3) **Allocation of Costs to New Development** – The percentage of project costs that can be associated with new development
- (4) **Traffic Forecast** – The volume of traffic over specific roadway segments during the peak period as well as vehicle trip origins and destinations

These are then used to determine the fee amounts per dwelling unit or per square foot of non-residential development.

### *Connect the Coastside Preliminary TIMF Calculation*

#### **(1) Transportation Project List**

The list of projects that could be included in the mitigation fee program is consistent with those described Table 29: Recommended Infrastructure Projects on page 103. Of the total project costs, only a portion can be allocated to the fee program by demonstrating a nexus between the project need and new development.

#### **(2) Forecast of Future Land Use and Growth Potential**

Transportation impacts first must be scaled to the impacts of one single-family residential household or Dwelling Unit Equivalent (DUE). Standard trip generation rates, average trip lengths, and pass-by trip percentages were used in this process (see Table 38: Dwelling Unit Equivalent (DUE) Rates). These Dwelling Unit Equivalent rates are then applied to divide improvement costs on an equivalent unit basis for the transportation impact fee calculation. The quantity of new development expected in the Study Area is from the land use buildout analysis based on the Constrained Development Forecast (Table 11 and Table 12 on page 43). The Constrained Development Forecast provides a more realistic estimate of the number of dwelling unit equivalents that the fee will collect over the planning horizon, which is a key input into the calculation. Using the Maximum Buildout Forecast would be an overstatement of growth, resulting in a lower than needed fee. The projected new development was then allocated to land uses based on zoning.



Table 38: Dwelling Unit Equivalent (DUE) Rates

Land Use Category	Unit	PM Peak Hour Trip Rate per Unit <sup>1</sup>	Trip Length (miles) <sup>2</sup>	Percent New Trips	VMT per Unit	DUE per Unit
Formula		[A]	[B]	[C]	[D] = ([A] x [B] x [C])/100	[E] = [D] / [D for single-family]
Single-family	Dwelling Unit	0.99	5.0	100%	4.95	1.00
Multi-family	Dwelling Unit	0.56	5.0	100%	2.80	0.57
Retail <sup>2</sup>	Square Feet x 1000	3.81	2.3	76%	6.66	1.35
Office	Square Feet x 1000	1.40	4.5	92%	5.80	1.17
Industrial	Square Feet x 1000	1.15	5.1	92%	5.40	1.09

Source: DKS Associates, 2017

Notes:

<sup>1</sup>ITE Trip Generation Web-based App (<https://itetripngen.org>)

<sup>2</sup>ITE Journal, May 1992

Table 39: Constrained Development Forecast (Year 2040) by Land Use and Growth in DUEs

Land Use Category	Unit	DUE per Unit <sup>1</sup>	(A) Existing Uses	(B) Existing DUEs	(C) Future (2040) Uses <sup>2</sup>	(D) Future DUEs	(E) Expected Growth <sup>3</sup>	(F) Expected Growth DUEs
Single-Family	Dwelling Unit	1.00	7,498	7,498	8,835	8,835	1,213	1,213
Multi-Family		0.57	1,283	726	1,916	1,084	575	325
Retail	Square Feet x 1000	1.35	234	315	400	538	165	221
Office		1.17	708	828	1,280	1,499	494	578
Industrial		1.09	298	325	711	775	191	208
<b>Total:</b>				9,691		12,731		2,546
Percent growth DUEs:				<b>=(F)/(D)</b>	<b>0.20</b>			

Notes:

<sup>1</sup>Dwelling Unit Equivalent (DUE) per thousand square feet for non-residential uses

<sup>2</sup>Includes existing uses, projects already in development pipeline, and remaining capacity

<sup>3</sup>Does not include projects in development pipeline

### (3) Traffic Forecast for 2040

Traffic forecasts were generated with the City/County Association of Governments (CCAG) travel demand model. The C/CAG travel model was used to perform select link assignments of future (2040) PM peak period traffic passing through roadway project locations. These select link assignments are used to produce an origin-destination matrix of the vehicle trips passing through model network links or nodes representative of the roadway project locations. The vehicle trip origins and destinations were then categorized as internal or external to the Connect the Coastside Study Area to separate through traffic from trips starting or ending in the Study Area (local traffic). The percentage of local traffic attributable to growth was estimated by multiplying the local trips by the percentage of growth DUEs within the Study Area (Table 40).

Table 40: Percentage of Local Growth Traffic at Select Locations, 2040 PM Peak Period

	Total Trips			Local Trips		
	Local <sup>1</sup>	Through <sup>2</sup>	Total	Existing <sup>3</sup>	Growth <sup>4</sup>	Local Growth %
Highway 1 near California Ave and Cypress Ave	4,767	17	4,785	3,799	969	0.20
Highway 92, east of Half Moon Bay	11,734	536	12,271	9,350	2,385	0.19
Highway 92 and Highway 35 (Upper)	11,706	1,196	12,902	9,327	2,379	0.18

Notes:

<sup>1</sup> Trips with an origin and/or destination in the Study Area.

<sup>2</sup> Trips beginning and ending outside the Study Area

<sup>3</sup> "Local" trips associated with existing development (calculated with percent existing DUEs)

<sup>4</sup> "Local" trips associated with new development (calculated with percent growth DUEs)

### (4) Allocation of Costs to New Development

Some improvements included in Connect the Coastside address existing deficiencies. In this case, the fair share allocation of the improvement project costs is the portion of total traffic at each project location accounted for by new trips due to growth in the Study Area, excluding any new through (not beginning or ending in the Midcoast) trips (Local Growth percentage in Table 40: Percentage of Local Growth Traffic at Select Locations, 2040 PM Peak Period).

Bicycle and pedestrian improvements serve local trips, those that have their origin or destination within the Study Area. The lack of bicycle and pedestrian facilities is an existing deficiency. Since improvements will benefit both existing and future residents, the cost of projects allocated to new development will equal the new development's proportional share of the total future development (existing plus new development) in the Study Area measured in DUEs.

$$\text{New Development Share} = \frac{\text{New Development DUEs}}{\text{Study Area DUEs (Existing + New Development)}} \times 100\%$$

Similarly, there are projects which address safety concerns, design standard deficiencies, or benefit multiple modes of transportation. Examples of these include installation of stop signs, parking lot improvements, and roadway shoulder and curb improvements. Since these types of projects also benefit both existing and new development, the cost of those projects allocated to new development is the new development's proportional share of the total future development (existing plus new development) in Study Area, measured in DUEs. This is the total percent growth DUEs (Table 39: Constrained Development Forecast (Year 2040) by Land Use and Growth in DUEs). The table below summarizes the amount per project allocated to the fee program.

Table 41: Project Costs Allocated as Percentage of Growth Dwelling Unit Equivalents or Local Growth Traffic Percentage

Number	Project Name	Total Cost (rounded to nearest \$1,000)	Cost Allocated to Fee Program (rounded to nearest \$100)
<b>R1A</b>	Highway 1 Shoulder Treatment – Village	\$2,401,000	\$480,200
<b>R1B</b>	Highway 1 Shoulder Treatment – Fringe	\$1,603,000	\$320,600
<b>R2</b>	Highway 1 Side Street Stop Signs	\$27,000	\$5,400
<b>R3</b>	Gray Whale Cove Turn and Acceleration Lanes	\$438,000	\$87,600
<b>R4</b>	Highway 1 Turn and Acceleration Lanes at 8th Street	\$387,000	\$77,400
<b>R5</b>	16th St / Highway 1 Intersection Control	\$5,442,000	\$1,088,400
<b>R6</b>	California Ave / Highway 1 Intersection Control	\$4,961,000	\$992,200
<b>R7</b>	Cypress Ave / Highway 1 Intersection Control	\$13,983,000	\$2,796,600
<b>R8</b>	Main Street Traffic Calming and Bicycle/Pedestrian Connectivity	\$655,000	\$131,000
<b>R9</b>	Carlos Street Realignment to 16th Street	\$1,123,000	\$224,600
<b>R10</b>	Carlos Street Traffic Calming	\$329,000	\$65,800
<b>R11</b>	Highway 92 / Highway 35 (East, Lower) Intersection Improvements	\$254,000	\$50,800
<b>R12</b>	Highway 92 / Highway 35 (West, Upper) Intersection Control	\$619,000	\$111,400
<b>R13</b>	Highway 92 Truck Signs	\$2,000	\$400
<b>R14</b>	Highway 92 Left-turn Pockets	\$685,000	\$137,000
<b>Pe1A</b>	Highway 1 Uncontrolled Pedestrian Crossings	\$2,262,000	\$452,400
<b>Pe1B</b>	Highway 1 Pedestrian Overcrossing	\$4,804,000	\$960,700
<b>Pe1C</b>	Highway 1 and Coronado St. Improved Pedestrian Crossing	\$121,000	\$24,200
<b>Pe2</b>	Highway 1 Multimodal Parallel Trail	\$9,116,000	\$1,823,100
<b>Pe3</b>	Midcoast Alignment Completion of California Coastal Trail	\$1,951,000	\$390,200
<b>Pe4</b>	Highway 1 Sidewalks in Moss Beach and Montara	\$568,000	\$113,600

<b>Pe5</b>	Central Moss Beach Bicycle and Pedestrian Improvements	\$65,000	\$13,000
<b>Pe6</b>	Montara Safe Routes to School	\$310,000	\$62,000
<b>Pe7</b>	El Granada Safe Routes to School	\$1,162,000	\$232,400
<b>Pe8</b>	Capistrano Road (South) Intersection Improvements	\$256,000	\$51,200
<b>B1</b>	Highway 1 Bikeway	\$5,908,000	\$1,181,500
<b>B2</b>	Airport Street Bikeway and Princeton Connections	\$2,017,000	\$403,400
<b>B3</b>	Capistrano Road Bikeway	\$297,000	\$59,400
<b>B4</b>	Highway 92 Bikeway	\$4,833,000	\$966,500
<b>B5</b>	Bicycle Parking	\$340,000	\$68,000
<b>T1</b>	Transit Stop Improvements	\$4,274,000	\$854,700
<b>T2A</b>	Recreational Microtransit (Fixed Costs)	\$1,260,000	n/a
<b>T2B</b>	Recreational Microtransit (Annual Operating Costs) <sup>1</sup>	\$926,000	n/a
<b>T3A</b>	Increased Midcoast Bus Service (Fixed Costs)	\$3,060,000	n/a
<b>T3B</b>	Increased Midcoast Bus Service (Annual Operating Costs) <sup>1</sup>	\$3,400,000	n/a
<b>Pa1</b>	Upper Gray Whale Cove Parking Lot Improvements	\$1,219,000	\$243,800
<b>Pa2</b>	Wayfinding	\$185,000	\$37,000
<b>TOTAL<sup>1*</sup></b>		<b>\$76,917,000</b>	<b>\$14,506,500</b>

Notes:

Percentage allocation for all is based on overall growth percent DUEs, which is 0.2 (20%), except for:

<sup>1</sup>Local growth percentage increase is 0.2 (20%)

<sup>2</sup>Local growth percentage increase is 0.18 (18%)

\*Costs for recreational shuttle and increased bus service are excluded from the mitigation fee

## (5) Estimated Fees

Table 42 summarizes the transportation impact fee calculation. A total of approximately \$14.5 million has been allocated to the fee program. The total allocated costs are distributed across an expected 2,546 DUEs, resulting in a justifiable fee of \$5,698 for each single-family dwelling unit, \$3,223 for each multifamily dwelling unit, and costs of \$7.67, \$6.67, and \$6.21 per square foot for retail, office and industrial development, respectively.

Table 42: Transportation Impact Mitigation Fee Rates

Cost of Improvements Allocated to Coastside Area Growth			\$14,506,500
Growth in Dwelling Unit Equivalentents (DUEs)			2,546
Cost per DUE			\$5,698
Land Use	Units	DUE	Fee per Unit or Square Foot <sup>1</sup>
Single-Family	Dwelling Unit	1.00	\$5,698
Multi-Family	Dwelling Unit	0.57	\$3,223
Retail	Square Foot	1.35	\$7.67
Office	Square Foot	1.17	\$6.67
Industrial	Square Foot	1.09	\$6.21

# 9. Appendices

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## APPENDIX A – ENGAGEMENT

2020 ENGAGEMENT REPORT

MOSS BEACH CHARETTE MEETING NOTES

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## APPENDIX B – PROJECT REPORTS

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## APPENDIX C – PLANNING AND POLICY CONTEXT

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## APPENDIX D – VEHICLE COUNTS COMPARISON

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## APPENDIX E – ANALYSIS WORKSHEETS

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EXISTING CONDITIONS – HIGHWAYS 1 AND 92 – SYNCHRO AND SIMTRAFFIC OUTPUT

BUILDOUT CONDITIONS – HIGHWAYS 1 AND 92 – SYNCHRO AND SIMTRAFFIC OUTPUT

MITIGATED BUILDOUT CONDITIONS – HIGHWAYS 1 AND 92 – SIDRA, SIMTRAFFIC,  
AND SYNCHRO OUTPUT

Appendices are available for download on the Connect the Coastside webpage at  
<https://planning.smcgov.org/connect-coastside>



COUNTY OF SAN MATEO - PLANNING AND BUILDING DEPARTMENT

# ATTACHMENT D

# Connect the Coastside CEQA Considerations

October 2021

The San Mateo County (“County”) Planning and Building Department has prepared this memorandum to clarify the County’s obligations to conduct California Environmental Quality Act (“CEQA”) review related to Connect the Coastside, the San Mateo County Midcoast Comprehensive Transportation Management Plan (“Plan” or “Connect the Coastside”).<sup>1</sup>

## Background

San Mateo County’s Local Coastal Program (LCP) Policy 2.53 describes the required content of a comprehensive transportation management plan to address the cumulative traffic impacts of residential development on the San Mateo County Midcoast. The County has prepared Connect the Coastside to address the mobility needs of Midcoast residents and visitors, to protect coastal resources and public access, and to improve the livability for Midcoast residents. Connect the Coastside seeks to:

- Improve existing traffic conditions and public safety;
- Expand transportation choices for residents and visitors;
- Encourage environmentally-friendly transportation options that reduce car trips, such as walking, biking and public transit;
- Respect the character of Midcoast communities and protect coastal resources; and
- Maintain and improve access to coastal resources for both residents and visitors.

Chapter 6 of the Plan describes existing transportation conditions and transportation system performance. Chapter 7 recommends a suite of projects, policies, and programs to address current and future transportation conditions and meet the Plan’s vision, goals, and objectives. The Plan’s infrastructure recommendations range from simple signing and striping improvements to more complex intersection controls, trails, and paths through undisturbed land. The Plan’s programmatic

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<sup>1</sup> This memorandum is informed and borrows from a memorandum from MIG regarding the Unincorporated San Mateo County Active Transportation Plan CEQA Considerations. Christina Lau to Julia Malmo-Laycock, December 22, 2020, Subject Correspondence Unincorporated San Mateo County Active Transportation Plan CEQA Considerations. Available as Attachment C from County of San Mateo Board of Supervisors February 9, 2021 Agenda, File #21-111, Attachment #4 at: <https://sanmateocounty.legistar.com/LegislationDetail.aspx?ID=4790911&GUID=6DF22547-8E6B-4E8F-A826-25C7B711A98A&Options=&Search=> (Accessed July 13, 2021).

recommendations range from additional detailed transportation planning studies to new land use policies and transportation performance standards. Chapter 8 of the Plan describes next steps required to implement Connect the Coastside’s recommendations and describes the general process and partnerships that will be required, including developing detailed project design, conducting additional community engagement, and assessing individual projects under CEQA (and the National Environmental Policy Act if applicable). As noted in the Plan, Connect the Coastside’s proposed projects, programs, and policy recommendations are preliminary and at the planning-level; the Plan does not include final designs or project-level details.

## CEQA Applicability to Connect the Coastside

The San Mateo County Planning and Building Department has determined that Connect the Coastside is not a project under CEQA and therefore not subject to CEQA review.

CEQA applies when a public agency proposes to “approve” a project, where “approval” means the decision by a public agency which commits the agency to a definite course of action.<sup>2</sup> The adoption of Connect the Coastside does not commit the County to a definitive course of action regarding the Plan’s recommended facilities or improvements as it does not preclude the study of alternatives or consideration of mitigation measures. Environmental review documents (e.g., Environmental Impact Report, Initial Study/Negative Declaration) should be prepared as early as feasible in the planning process to enable environmental considerations to influence project and program design, yet late enough to provide information for environmental assessment; agencies must not take any action which forecloses alternatives or mitigation measures that would ordinarily be part of CEQA review for that project.<sup>3</sup> Several of Connect the Coastside’s recommendations are not definitive and provide potential alternatives (e.g., project B2. Airport Street Bikeway and Princeton Connections). Further, Plan recommendations

<sup>2</sup> 14 California Code of Regulations §15352(a)

<sup>3</sup> 14 California Code of Regulations §15004(b)(2)(B)

## WHAT IS A “PROJECT” UNDER CEQA?

14 CCR § 15378

(a) “Project” means the whole of an action, which has a potential for resulting in either a direct physical change in the environment, or a reasonably foreseeable indirect physical change in the environment, and that is any of the following:

(1) An activity directly undertaken by any public agency including but not limited to public works construction and related activities clearing or grading of land, improvements to existing public structures, enactment and amendment of zoning ordinances, and the adoption and amendment of local General Plans or elements thereof pursuant to Government Code Sections 65100-65700.

(2) An activity undertaken by a person which is supported in whole or in part through public agency contracts, grants, subsidies, loans, or other forms of assistance from one or more public agencies.

(3) An activity involving the issuance to a person of a lease, permit, license, certificate, or other entitlement for use by one or more public agencies.



that are more definitive remain only recommendations at the stage of Plan adoption; implementation of any Plan recommendation will require further detailed planning efforts, funding, and other critical steps.

The CEQA Guidelines define a project under CEQA as “the whole of the action” that may result directly or indirectly in physical changes to the environment.<sup>4</sup> Segmenting a project into two or more pieces to then assess impacts is prohibited as evaluating projects separately may have a less than significant impact than taken as a whole. In contrast, conducting environmental review on a single component of a larger plan is appropriate when each component retains its own independent utility and provides benefit and use regardless of completion of the other components. Projects in Connect the Coastside are presented and intended to be implemented and operated independently, as indicated in Chapter 7 in the segmentation of recommendations and in Chapter 8 in #4 of the “Moving a Project Toward Implementation” section and Table 33. Project Implementation Timeline.

## Process for Future CEQA Review

As described in Chapter 8, Connect the Coastside’s recommendations would undergo subsequent review to determine whether a recommendation is a “project”<sup>5</sup> subject to CEQA and if it is, to conduct CEQA review prior to approving and implementing the project. The project sponsor (lead agency) would conduct an initial review to determine project status and what type of CEQA document would need to be prepared as described below.

### Not a Project

Per 14 California Code of Regulations §15378(a), several of Connect the Coastside’s recommendations are not considered projects under CEQA. For example, program recommendations such as educational campaigns and Safe Routes to School campaigns, and policy recommendations that do not require amendments to the Local Coastal Program or General Plan.

### Statutory Exemption

Statutory exemptions from CEQA are those granted by the California Legislature; some exemptions are complete exemptions from CEQA while others apply to only part of CEQA requirements.<sup>6</sup> Some of these statutory exemptions may apply to Connect the Coastside’s recommendations. For example, pedestrian and bicycle facilities projects, including but not limited to bicycle parking (B5) and some bikeways<sup>7</sup> are exempt if the project and agency meets the conditions outlined in California Public Resources Code §21080.25. This specific section remains in effect until January 1, 2023.

### Categorical Exemption

Categorically exempt projects are certain classes of projects that have been determined not to have a significant effect on the environment and are therefore exempt from CEQA review.<sup>8</sup> Several classes of categorical exemptions could apply to Connect the Coastside’s recommendations, including but not limited to:

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<sup>4</sup> 14 California Code of Regulations §15378(a)

<sup>5</sup> 14 California Code of Regulations §15378(a)

<sup>6</sup> 14 California Code of Regulations §15260 to 15285

<sup>7</sup> California Streets and Highways Code §890.4

<sup>8</sup> 14 California Code of Regulations §15300

- §15301 Existing Facilities – Class 1: (c) Existing highways and streets, sidewalks, gutters, bicycle and pedestrian trails, and similar facilities (this includes road grading for the purpose of public safety), and other alterations such as the addition of bicycle facilities, including but not limited to bicycle parking, bicycle-share facilities and bicycle lanes, transit improvements such as bus lanes, pedestrian crossings, street trees, and other similar alterations that do not create additional automobile lanes); and
- §15304 Minor Alterations to Land – Class 4: (h) The creation of bicycle lanes on existing rights-of-way.

Recommendations such as the addition of bicycle parking in the right-of-way, sections of the California Coastal Trail, and Capistrano Road Bikeway would likely qualify for a categorical exemption. §15300.2 identifies exceptions to categorical exemptions. For example, if a project that would ordinarily be considered insignificant in its impact on the environment but will be located in a sensitive environment where its impact could be significant, it no longer qualifies for a categorical exemption. If any of the exceptions in §15300.2 apply to the project, a categorical exemption cannot be used and an Initial Study/Negative (or Mitigated Negative) Declaration or Environmental Impact Report would need to be prepared. In determining whether a project qualifies for a categorical exemption, the project sponsor would need to prepare site-specific reports addressing potential exceptions.

### Common Sense Exemption

In addition to statutory exemptions and categorical exemptions, CEQA also provides for a “common sense exemption.” The common sense exemption follows the rule that CEQA applies only to projects which have the potential for causing a significant effect on the environment. Where it can be seen with certainty that there is no possibility that the activity in question may have a significant effect on the environment, the activity is not subject to CEQA.<sup>9</sup>

### Initial Study, Negative Declaration or Mitigated Negative Declaration

Recommendations that are subject to CEQA and which do not qualify for an exemption would be reviewed and the lead agency would conduct an initial study to determine if the project may have a significant effect on the environment.<sup>10</sup> The study serves as the basis for deciding what type of environmental document to prepare and enable the project sponsor/lead agency to modify the project to mitigate for adverse impacts and qualify for a Negative Declaration or Mitigated Negative Declaration.<sup>11</sup> The County Planning and Building Department has a standard Initial Study Environmental Evaluation Checklist available on its website.<sup>12</sup> A lead agency would prepare a Negative Declaration or Mitigated Negative Declaration when the Initial Study shows that there is no substantial evidence that the project will have a significant effect on the environment or that potentially significant effects could be avoided with mitigations to a point where clearly no significant effects would occur.<sup>13</sup> Projects that could require an Initial Study include but are not limited to those that require work outside of the public right-of-way, require work in an environmentally sensitive area or with known archaeological or tribal

<sup>9</sup> 14 California Code of Regulations §15061(b)(3).

<sup>10</sup> 14 California Code of Regulations §15603

<sup>11</sup> 14 California Code of Regulations §15603(c)

<sup>12</sup> County of San Mateo Planning and Building. Planning Regulations, California Environmental Quality Act (CEQA). Available at: <https://planning.smcgov.org/planning-regulations> (Accessed July 13, 2021)

<sup>13</sup> 14 California Code of Regulations §15070

resources, or involve controversy. Recommendations such as the Airport Street Bikeway would likely require an initial study.

### Environmental Impact Report

The decision to prepare an Environmental Impact Report (EIR) happens during preliminary project review or at the conclusion of an initial study.<sup>14</sup> Projects that are likely to require an EIR level of review typically require construction within a previously undisturbed area (e.g., Environmentally Sensitive Habitat), are unable to avoid impacts to known cultural, historic, or tribal cultural resources, or those that are highly controversial. CEQA Guidelines Section 15082 defines the notice of preparation and determination of scope for an EIR.

### National Environmental Policy Act Compliance

Any project seeking federal funding would require compliance with the National Environmental Policy Act (NEPA) and require the preparation of a Categorical Exclusion, Environmental Assessment, or Environmental Impact Statement. The role of a federal agency in the NEPA process depends on its relationship to the proposed action; the federal agency (or agencies) carrying out the action is responsible for complying with NEPA requirements.<sup>15</sup> The lead agency would likely seek NEPA compliance for projects that are high in cost or could benefit federally-controlled lands, such as the proposed Highway 1 Intersection Controls, to make the projects eligible for federal funds.

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<sup>14</sup> 14 California Code of Regulations §15081

<sup>15</sup> United States Environmental Protection Agency. What is the National Environmental Policy Act? Available at: <https://www.epa.gov/nepa/what-national-environmental-policy-act> (Accessed July 13, 2021)



COUNTY OF SAN MATEO - PLANNING AND BUILDING DEPARTMENT

# ATTACHMENT E

# General Response to Comments on Connect the Coastsides Final Administrative Draft (January 2021)

General Comment	Response
<b>INFRASTRUCTURE PROJECTS</b>	
<p>[1] Marked pedestrian crossings</p> <ul style="list-style-type: none"> <li>- Add center median islands</li> <li>- Prioritize Gray Whale Beach, Medio Ave., 2<sup>nd</sup> St., and Surfer’s Beach</li> <li>- Concerns about safety of Virginia Ave. crossing</li> <li>- Add bi-modal bridge from north end of Carlos St. to Montara Lighthouse</li> <li>- Add smart pedestrian crossings on Highway 1 at California Ave. and 2<sup>nd</sup> St.</li> </ul>	<p>CTC Project Pe1 already includes language addressing evaluation of additional infrastructure at marked pedestrian crossings, like medians islands: <i>“Additional infrastructure, such as raised medians per the Highway 1 Safety and Mobility Study, should be evaluated as part of future detailed design at the project-level.”</i></p> <p>CTC aims to implement one crossing in each community in the near-term. The Plan includes recommended crossings at: Gray Whale Cove, 2nd St., and two near Surfer’s Beach, among others. The specific design of crossings and whether they will be warning only (i.e., user-activated, on demand vs. part of a system), is not specified in the Plan and will be determined as part of future design.</p> <p>Caltrans is in the process of addressing concerns at the existing Virginia Avenue crossing, including recommendations to add a rectangular rapid flashing beacon. This work has been noted in the revised final draft plan.</p> <p>CTC recommended project Pe1 includes a separated bicycle and pedestrian bridge at the north end of Carlos Street to connect to the California Coastal Trail.</p>
<p>[2] Underpasses v. at-grade v. overpasses for crossings</p> <ul style="list-style-type: none"> <li>- Trail underpasses at Medio Creek and at Gray Whale Cove, Furtado Lane</li> <li>- Study feasibility of underpass in central Moss Beach v. overpass at northern end</li> </ul>	<p>See <a href="#">“Response to Connect the Coastsides Virtual Meeting Inquiries,”</a> response #12. Based on feedback, the Plan includes a recommendation for an overpass at north end of Carlos St in Moss Beach to connect the Parallel Trail and Coastal Trail.</p>
<p>[3] Bikeways</p> <ul style="list-style-type: none"> <li>- Airport St. needs</li> <li>- Class 2 lanes on Highway 1, acknowledge Caltrans project to include bike lanes as part of their State Highway Operation and Protection Program (SHOPP)</li> </ul>	<p>Pedestrian and bicycle safety concerns on Cypress Avenue west were highlighted by many stakeholders during CTC’s engagement. Cypress Avenue also provides access to transit stops. Improving Cypress Avenue via project B2 Airport Street Bikeway and Princeton Connections (Cypress Ave. from Highway 1 to Airport St.: Class III Bike Route with pedestrian path on north side) remains in the Plan. Airport Street is included as a proposed bikeway (Project B2) and engaging in the necessary study for B2 is a 5-year priority per Table 34.</p>

General Comment	Response
<ul style="list-style-type: none"> <li>- Improve connections via Dardanelle Trail at Fitzgerald Marine Reserve instead of at Cypress Ave west, which is narrow, unsafe</li> </ul>	<p>For Class 2 bike lanes on Highway 1, the CTC project team added language to project B1: <i>“Caltrans has a State Highway Operation and Protection Program project (SHOPP EA# 0Q130) that will involve repaving certain sections of Highway on the Midcoast. The project will stripe Class 2 bike lanes were feasible with locations to be determined in subsequent project phases.”</i></p>
<p>[4] Gondola Add gondola that goes over the hills to San Bruno</p>	<p>Provision and management of a cable propelled transit (CPT) system – or gondola – would need to be taken on by a transit provider, like the San Mateo County Transit District (SMCTD). At this time, SMCTD does not have capacity to develop or manage a CPT system. Further, a CPT system would need to be evaluated in the context of the San Mateo County Local Coastal Program’s Visual Resources component.</p>
<p>[5] Coastal Trail Include section north of the Montara Mountain trailhead up to the Lantos tunnel</p>	<p>Connect the Coastside includes a potential alignment of the California Coastal Trail (CCT) north of Montara and recommends a specific alignment south of 1<sup>st</sup> Street. CTC recommends prioritizing completion of the Coastal Trail sections that serve transportation needs, as opposed to trails that would be primarily recreational in nature.</p>
<p>[6] Highway 1 crossing at 1<sup>st</sup> Street</p> <ul style="list-style-type: none"> <li>- Clarify why recommended crossing is in the Plan</li> <li>- Preference for a crossing at 2<sup>nd</sup> St</li> </ul>	<p>Connect the Coastside does not prioritize recommended crossing locations in each community; 2<sup>nd</sup> St could be the first crossing implemented in this area after further review. The Plan recommends both the 1<sup>st</sup> St and 2<sup>nd</sup> St crossings due to the location of a public parking lots, parking alongside Highway 1 north of 1<sup>st</sup> Street on the east side to access the coast, and potential future accessible open space development led by State partners on the east side of Highway 1.</p>
<p>[7] Highway 1 Montara Westside Pedestrian Path</p> <ul style="list-style-type: none"> <li>- Add between 10<sup>th</sup> St. and Seacliff Ct.</li> <li>- Explore long-term opportunity for connecting westside ped path above the road cut from 4<sup>th</sup> to Montara State Beach</li> </ul>	<p>The CTC team added these as long-term opportunity additions to CCT alignment as part of project Pe3: <i>“A westside path along Highway 1 from 10th St to Seacliff Court and 4th St to Montara State Beach should be considered as an addition to the primary CCT alignment to provide access to scenic vistas, with appropriate crossing infrastructure and signage added.”</i></p>
<p>[8] Trail between 14<sup>th</sup> St. and 16<sup>th</sup> St. Develop near term improvements</p>	<p>This section is part of the development of the Multimodal Parallel Trail; seeking funding for design is part of the early implementation actions.</p> <p>The CTC team has highlighted community feedback about the need for pedestrian infrastructure between 14<sup>th</sup> and 16<sup>th</sup> Streets with Caltrans.</p>
<p>[9] 16<sup>th</sup> St. / Highway 1 Add comment that intersection design needs to accommodate long/heavy vehicles for Montara Water &amp; Sanitary District</p>	<p>The CTC team added language to project R5 – 16<sup>th</sup> St Intersection Control, <i>“Final design will need to accommodate large, long, and heavy vehicles which regularly access Montara Water and Sanitary District facilities on the westside of Highway 1.”</i></p>
<p>[10] Highway 1 / Carlos St. north</p> <ul style="list-style-type: none"> <li>- No left turn from Carlos Street onto Highway 1</li> <li>- Add median on Carlos Street to channel right turn traffic onto Highway 1</li> </ul>	<p>Project R9 – Carlos Street realignment to 16<sup>th</sup> Street will connect Carlos Street directly to 16<sup>th</sup> St and will address concerns highlighted here in the long-term.</p>

General Comment	Response
<ul style="list-style-type: none"> <li>- Add right turn acceleration lane onto Highway 1</li> <li>- Clear vegetation on south-facing berm of Highway 1 to improve sight distance.</li> <li>- Shorten Highway 1 left turn lane approaches, north to Lighthouse and south to Carlos Street, to provide better separation from the left turn lane for 16th Street and eliminate “suicide arrows”</li> </ul>	
<p>[11] California Ave. Roundabout</p> <ul style="list-style-type: none"> <li>- Concern of dropping bike lanes at California St (desire for Dutch-style roundabout, which would keep bike lanes throughout the roundabout, and continuous bike lanes on Highway 1)</li> <li>- Detailed feedback on 10% design (e.g., need for signs)</li> </ul>	<p>California Ave. and Highway 1 is a constrained intersection due to the presence of endangered California red-legged frogs between Highway 1 and Carlos Street near California Avenue. The Dutch-style roundabout that includes protected bike lanes will likely take more right-of-way, which would be more likely to encroach on species habitat. However, these comments have been noted for consideration during future design phases. Other detailed feedback on the conceptual 10% designs included in Connect the Coastside have been documented for consideration during future design.</p>
<p>[12] California Ave. and Highway 1</p> <ul style="list-style-type: none"> <li>- Widen approaches</li> <li>- Stripe acceleration lanes, and separate right/left-turn lanes</li> </ul>	<p>See below.</p>
<p>[13] Cypress Ave. and Highway 1</p> <ul style="list-style-type: none"> <li>- Widen approaches</li> <li>- Stripe acceleration lanes, and separate right/left-turn lanes</li> </ul>	<p>Solutions, such as the ones proposed here (widened approaches, acceleration lanes, etc.) would be evaluated through the development of a Project Initiation Document (PID) in partnership with Caltrans. The development of a PID is a priority action per Table 34: Early Implementation Actions. The CTC team added language in Chapter 8 under “Moving a Project Toward Implementation”: <i>“Through the development of a PID, the project team would evaluate the various options to address challenges; for example, whether the challenges at Cypress Avenue and Highway 1 could be overcome with turn lanes or if an intersection control is needed.”</i></p>
<p>[14] Coronado St. / Highway 1</p> <ul style="list-style-type: none"> <li>- Add sidewalks to west side of Highway 1 to get to intersection</li> <li>- Convergence of Coastal and Parallel trails, improve interior roadway infrastructure</li> </ul>	<p>The CTC team added language on project Pe1 - <i>“Either sidewalk should be added on the westside of Highway 1 to connect the two crossings or a direct paved connection from the new southern crossing to the existing Coastal Trail.”</i></p> <p>Project Pe7, El Granada Safe Routes to School (SRTS), recommends pedestrian and bicycle improvements to the interior network for roads which will foster connection to the Parallel Trail; the Coastal Trail will connect the Parallel Trail at the improved Coronado St. crossing (project Pe1).</p>
<p>[15] Alameda Ave. in Miramar</p>	<p>Connecting the Alameda Ave. right-of-way as part of addressing Coastal Trail realignment is identified on p.152 in “Recommended Planning Studies” and “Planning for Sea Level Rise and</p>

General Comment	Response
Pave Alameda Ave. right-of-way to Magellan Ave. to provide alternate connections and improve local circulation	Coastal Erosion” in Connect the Coastside. The CTC project team cannot engage in the requisite analysis or community engagement to vet this idea at this time. The CTC team added language in this same section under Highway 1 to note need to address local circulation impacts: <i>“Long-term realignment of Highway 1 may be necessary to comprehensively address sea level rise threats, including reassessing the local roadway network and its connections. For example, stakeholders identified circulation concerns in Miramar that could be exacerbated by coastal erosion and suggested paving and connecting Alameda Avenue.”</i>
[16] Medio Ave. / Highway 1 <ul style="list-style-type: none"> <li>- Need for increased infrastructure</li> <li>- Consider roundabout at this location</li> </ul>	<p>Connect the Coastside’s Final Administrative Draft Plan (CTC or Plan) recommends a marked crosswalk with rectangular rapid flashing beacon (RRFB) or pedestrian hybrid beacon (PHB) at Medio Avenue and Highway 1 and to address additional infrastructure, such as median islands, as part of future detailed planning and design (see project Pe1).</p> <p>A signal warrant analysis would need to be completed to evaluate the appropriateness of an intersection control at this location. CTC’s Appendix – Synchro Output – shows that under existing conditions, all movements at all time periods at Medio Ave. have less than 50 vehicles/hour; this is also true under projected buildout conditions. Therefore, the Plan does not currently recommend an intersection control at this location, in order to balance freeway traffic flow with side street movements.</p>
[17] Highway 92 Add lanes for people to turn on/off for businesses where possible	CTC already recommends left-turn pockets/lanes at key locations on Highway 92 (project R14) -- <i>“Highway 92 at key activity generators such as: Half Moon Bay Nursery (11691 San Mateo Rd), Sun Studios Garden Center (12001 San Mateo Rd), Lemos Farm / Repetto's Florist (12320 San Mateo Rd), Pastorino Farms (513 San Mateo Rd), Repetto's (381 San Mateo Rd), and Spanish Town (276 San Mateo Rd).”</i> These will need further study for implementation as they will require grading, widening, fill, and other improvements.
<b>PROGRAMMATIC / POLICY</b>	
Recreational Shuttle <ul style="list-style-type: none"> <li>- Extend to shuttle to Bayside to Bay Trail in Foster City, San Mateo, or Redwood Shores</li> <li>- Northern start at Lake Merced before BART would be helpful for bicycling community</li> </ul>	The CTC team revised this project to be more expansive of service type to microtransit and references the need to engage in further study to increase connections for cyclists.
Near-term improvements <ul style="list-style-type: none"> <li>- Add in near term solutions, then reassess need for longer-term options using new data, including assessment for intersections of Highway 1 with Cypress Avenue and California Avenue</li> </ul>	The assessment of Highways 1 with Cypress Avenue and California Avenue will include other types of solutions, which is part of the Project Initiation Document (PID) development. At present, data analysis shows impacts at these locations under existing (Cypress Avenue) and buildout scenarios (California and Cypress Avenues), which is why Connect the Coastside recommends intersection controls. Engaging in the PID process will reassess the locations to see whether improvements are warranted now, and if so, to what degree.



General Comment	Response
<p>Land Use Policy Implementation - Lot Merger and Lot Retirement</p> <ul style="list-style-type: none"> <li>- Sequential v. concurrent implementation</li> <li>- Maps of eligible parcels</li> </ul>	<p>Based on this request, the CTC team evaluated the feasibility of the lot merger program in depth, and determined that the Witt and Abernathy decisions, the 2017 update to County Subdivision Regulations, and the preferences of property owners are leading to the creation of legal parcels at or above today’s minimum parcel size without the need for a mandatory lot merger program. See next response for Lot Retirement information.</p>
<p>Lot Retirement</p> <ul style="list-style-type: none"> <li>- Expand application to legal parcels near parklands, sensitive habitat, or buffer zones (e.g., Montecito Riparian Corridor) and high fire areas (El Granada Highlands)</li> <li>- Incentives for lot retirement from 2016 D&amp;B report (like those in Cambria)</li> <li>- Update lot retirement data</li> <li>- Suggest that if any urban Midcoast residentially zoned property is up-zoned, lot retirement on a one-to-one basis should be required.</li> <li>- How does 1:1 lot retirement for subdivisions reduce buildout?</li> </ul>	<p>Upon further evaluation, the CTC team does not recommend a lot retirement requirement for subdivisions, as there are few potential subdivisions in the urban Midcoast and it would pose potential legal issues for the County.</p> <p>Staff reviewed subdivision applications submitted between 2010-2020 for properties in Montara, Moss Beach, Princeton, El Granada, and Miramar, and found only 3 approved subdivisions, which created a total of 4 additional parcels.</p> <p>In order to justify such a requirement, it would be necessary to find a connection between the impact of the project and the mitigation being required. In other words, the requirement to retire lot(s) must be based on the actual effect of the subdivision. The level of mitigation also needs to be proportional to project impacts. That is, the cost and benefit of lot retirement must be roughly equivalent to the degree of impact caused by a subdivision. It is unknown whether the lot retirement program would meet these tests if legally challenged. If the County were to implement a lot retirement requirement, it will bear the burden of defending any legal challenges to this policy.</p> <p>However, the County could further explore other options (such as a Transfer of Development Credits/Rights program) to decrease/disincentivize future development in high hazard or sensitive areas in future planning efforts such as the updates of the Safety Element and Housing Element.</p>
<p>Request for a subdivision moratorium</p>	<p>The CTC team does not recommend a subdivision moratorium, because a subdivision moratorium would present legal challenges while providing little impact, as few subdivisions take place in the urban Midcoast.</p>
<p>Maximum Buildout</p> <ul style="list-style-type: none"> <li>- Does it assume all land will be developed to full density it is zoned?</li> <li>- Impact of buildout on local infrastructure, since Local Coastal Program (LCP) states that both forecasts exceed current water and wastewater treatment capacity</li> </ul>	<p>The answer to the first question is explained on p.42 of the Final Draft:</p> <p><i>“The development analysis also included assumptions to estimate:</i></p> <ol style="list-style-type: none"> <li><i>(1) the amount of existing development, for parcels for which this data was not included in the Assessor’s data file, and</i></li> <li><i>(2) the amount and type of future development projected on “opportunity sites.”</i></li> </ol> <p><i>Opportunity sites were identified for each subarea. Opportunity sites are parcels that are undeveloped or underutilized and which are likely to be developed in the future. Assumptions</i></p>

General Comment	Response
	<p><i>followed those of the San Mateo County Midcoast LCP Update and the Plan Princeton effort, where relevant. <b>Development assumptions for both residential and non-residential development were refined based on what is allowed by zoning, the typical density and intensity of existing development, and regulatory constraint factors.</b></i></p> <p>Development Assumptions by Subarea can be found in Appendix B of the Buildout Analysis and Traffic Projections Final Report.</p> <p>Impact of buildout on local infrastructure: most of the improvements suggested in Connect the Coastsides will improve existing conditions, as well as buildout conditions. New development on the Midcoast is permitted based on a number of factors, and access to water meters is one part of this equation.</p>
<p>Conservation lot purchase program</p> <ul style="list-style-type: none"> <li>- Hazard and Environmentally Sensitive Habitat Area (ESHA) lot purchase program for undeveloped lots located in very high fire severity zones, within path of sea level rise and within ESHA and/or ESHA buffers</li> </ul>	<p>While this kind of program is outside of the scope of Connect the Coastsides, it could be explored in future planning efforts, such as part of the update of the County's Safety Element.</p>
<p>Include need to complete Linear Park &amp; Trail Plan Overlay Specific Plan for Devil's Slide Bypass (LCP Policy 11.33)</p>	<p>LCP Policy 11.33 is focused on advancing and supporting recreational open space and trails as noted in the title of this LCP policy and specific plan and in area outside of the central Midcoast (see Map 1.4 of LCP). Connect the Coastsides is focused on transportation and alternatives to single occupancy vehicle use, and specifically, avoiding vehicle trips along Highway 1. The area of the Linear Park and Trail Plan Overlay does not connect population centers and is unlikely to support mode shift.</p>
<p>Evacuation Plan and Hazard Plan to inform this final version</p> <ul style="list-style-type: none"> <li>- Include a chapter outlining evacuation plans for residents and visitors under current and buildout conditions, showing how Plan's improvements will enhance traffic flow and the ability to evacuate.</li> <li>- Analyze various disaster scenarios, such as a major seismic event on a weekend</li> <li>- Address wildfire evacuation concerns from the County's Hazard Mitigation Plan</li> </ul>	<p>Connect the Coastsides is not an evacuation plan; it is a transportation plan that intends to improve traffic conditions for typical conditions. Connect the Coastsides has provided additional information on emergency response and evacuation on p.167 of the Plan.</p>

General Comment	Response
<p>Acknowledge Highway 1 is limited to two (2) lanes in scenic areas – Montara Beach and south of Half Moon Bay (HMB)</p>	<p>LCP Policy 2.42 Capacity Limits (d.) states: “maintain Highway 1 as a scenic two-lane road outside the Urban Midcoast area as depicted on Land Use Plan Map 1.3.” The extents of Map 1.3 are from 1<sup>st</sup> St. in El Granada to Half Moon Bay (HMB) border. The CTC team added a reference to this LCP policy under Chapter 5, “Proposed performance standards,” “Roadway Performance Standard” (p.62)</p>
<p>Use level of service (LOS) as primary performance standard; use delay as an additional standard</p>	<p>Level of Service (LOS) will continue to be a metric used to understand traffic impacts, as it will be part of the County’s Traffic Impact Analysis Requirements and C/CAG’s Congestion Management Program. The recommendation to use the delay index is specific to capacity limit measurements in the context of roadway expansion (LCP Policy 2.43). If the LCP were amended to include this standard, there would be additional ways to mitigate for impacts. With roadway LOS, the only solution for impacts is roadway expansion, and roadway expansion would induce vehicle miles traveled, which would in turn have a significant impact under the California Environmental Quality Act, working against broader local, regional, and state goals.</p>
<p>Delay Index change</p> <ul style="list-style-type: none"> <li>- Change from 2.0 to 3.0 where bike lanes exist seems inappropriate</li> </ul>	<p>Implementing the Multimodal Parallel Trail is a near-term priority; however, there may be areas where a Class 1 facility is not feasible due to unforeseen constraints. The intent of this standard is to provide flexibility in mitigation opportunities where a higher standard would be acceptable.</p>
<p>Traffic control measures for peak weekend and special events to reduce congestion</p> <ul style="list-style-type: none"> <li>- LCP policy addressing measures to reduce congestion and control traffic, including traffic control personnel in congested locations on Highways 1 and 92 during peak weekend use and for special events</li> </ul>	<p>The CTC team added a recommended program “Traffic Control Measures”: <i>“Connect the Coastside recommends the Planning and Building Department engage partners, including the cities of Pacifica and Half Moon Bay, to develop a coordinated approach to traffic control for uses and events that generate large traffic volumes.”</i></p>
<p>Parking</p> <ul style="list-style-type: none"> <li>- Study to better guide parking, including all designated parking lots</li> <li>- Miramar needs parking off Magellan Ave. near trailhead at Mirada Surf</li> </ul>	<p>The CTC team added language in existing conditions Parking section (p.69) <i>“Stakeholders also noted the need for additional parking in Miramar, and specifically, on Magellan Avenue at the trailhead at Mirada Surf.”</i> The Plan already includes a recommendation for a future Parking Study for all communities.</p>
<b>IMPLEMENTATION</b>	
<p>Cost</p> <ul style="list-style-type: none"> <li>- Unclear how the plan will be paid for</li> <li>- Assumptions behind total cost</li> <li>- Assess full costs for all major components of improvement options (e.g., grading, land acquisition, watershed, etc.)</li> </ul>	<p>The CTC team added a clause in “Overview” section of Chapter 8, <i>“Implementation of Connect the Coastside will require strong partnerships with actors like Caltrans, other agencies, and ongoing support from the community to work together to find common ground on detailed project designs and funding mechanisms, such as pursuing competitive grants or using existing resources.”</i></p>

General Comment	Response
<ul style="list-style-type: none"> <li>- Clarify who will pay for things and utility impacts</li> <li>- Concern for costs to residents, particularly if utilities need to be repaired after major road work. Request for stipulation that states hidden costs will be covered by projects.</li> </ul>	<p>Connect the Coastside is a conceptual plan and is not the appropriate avenue to assess detailed project-level costs; it includes general estimates to guide planning. The CTC project team added language in “Planning-level cost estimates” Chapter 8: <i>“Cost estimates presented are planning-level and conceptual, using unit costs for key construction items, lump sums for environmental engineering, right-of-way acquisition, and utility coordination, and have additional contingency amounts added based on a percentage of total construction costs. As projects undergo further planning as part of the implementation process, assumptions will be revisited and revised which will affect costs. For example, any utility impact costs, such as relocation, will be evaluated in detail in future phases of project design and incorporated into the project cost.”</i></p> <p>The Connect the Coastside project team found errors in the summary table of the January 2020 draft’s cost estimate table that included a double counting of some projects. The cost estimates of the January 2021 draft were further refined and re-summed.</p>
<p>Timeline</p> <ul style="list-style-type: none"> <li>- How optimistic is the timeline?</li> <li>- Assumptions</li> </ul>	<p>The project implementation timeline (Table 33) and early implementation actions (Table 34) are optimistic. The key considerations that influence the timeline are included in Chapter 8, Implementation under “Next Steps”. General assumptions included at least 1 full time equivalent in the Planning and Building Department to support implementation, and willingness from key partners (for example, Caltrans, SamTrans, and others) to engage with Planning and Building staff and work collaboratively to identify opportunities for implementation with their respective agencies. Although Planning &amp; Building staff have led the development of Connect the Coastside, this department is not in charge of County resources nor infrastructure decisions, so can largely act in a leadership and convening role only.</p>
<p>Prioritize completion of entire Parallel Trail</p>	<p>CTC Project team revised Table 34: Early Implementation Actions to reflect this – <i>“Complete project implementation for Phase 1 of the trail. Seek funding to begin and complete the detailed planning and design process for the rest of the Multimodal Parallel Trail (from El Granada to Montara).”</i></p>
<p>Impacts on buildout vs. accessibility</p> <ul style="list-style-type: none"> <li>- How will CTC implementation affect the timing of development projects to preserve safety and visitor accessibility?</li> <li>- What will be required before specific projects can proceed?</li> <li>- Cumulative impact of approved new developments on Highway 1</li> </ul>	<p>Certain projects will be required to engage in traffic impact analysis per County Traffic Impact Analysis Guidelines (<a href="https://publicworks.smcgov.org/documents/traffic-impact-analysis-requirements">https://publicworks.smcgov.org/documents/traffic-impact-analysis-requirements</a>) and develop a traffic impact mitigation plan, per LCP Policy 2.52. Both call for analysis of cumulative traffic impacts. Elements of a traffic impact mitigation plan could further implementation of Connect the Coastside and be included as part of the project’s conditions of approval. In general, the LCP’s policies intend to preserve safety and visitor accessibility and all projects are reviewed as such. Connect the Coastside’s purpose is to look at cumulative impact of development at LCP Buildout and the recommended projects are to mitigate for those collective impacts. Specific development projects may have localized impacts and/or improvements that are not captured in CTC and vice versa. The traffic impact analysis and/or traffic impact mitigation plan would highlight impacts and identify potential mitigations.</p>

General Comment	Response
Regular Midcoast Transportation Review <ul style="list-style-type: none"> <li>- Highway data monitoring plans</li> <li>- Annual update with key data</li> </ul>	CTC Project Team revised Table 34 to: <i>“Leverage County’s existing web and data infrastructure to make existing and future transportation and development data publicly available, for the purpose of informing <u>annual</u> status reports on Connect the Coastside, including informational presentation to Midcoast Community Council.”</i>
<b>DATA</b>	
Transportation impacts due to visitors/non-residents	Connect the Coastside is intended to address LCP Policy 2.53 Transportation Management Plan, which is to address the cumulative traffic impacts of <u>residential</u> development. The Plan does not provide specific data on visitor-related traffic but does reference the impact of visitors more generally on travel conditions. Visitor traffic is an important consideration for the development of the recommendations and is incorporated into the analysis as part of weekend peak period traffic counts. The Plans’ recommendations intend to mitigate for vehicle trips due to both residents and visitors with a focus on modal shift.
Roundabout efficacy/impacts <ul style="list-style-type: none"> <li>- Modeling pre/post roundabout traffic flows (balanced traffic v. high volumes on Highway 1)</li> </ul>	Further analysis would be completed as part of future project phases (such as the Project Initiation phase) as described in Chapter 8.
At-grade pedestrian crossings <ul style="list-style-type: none"> <li>- Impacts on traffic flow</li> </ul>	The traffic analysis software used for Connect the Coastside can model operational improvements only; meaning interventions such as traffic signals, turn lanes, acceleration lanes, and signal timing changes. The requested analysis would be done as part of future project phases, as described in Chapter 8.
Delay Index <ul style="list-style-type: none"> <li>- Assumptions for why bicycle lanes, pedestrian improvements, trails would diminish traffic to point of improving delay index on Highway 1? What traffic will diminish?</li> <li>- Compare LOS, Delay, and traffic flow</li> </ul>	The Plan posits that with high quality alternatives to single occupancy vehicles (e.g., paths, frequent transit, etc.), more people are likely to choose walking, bicycling, or transit over driving for trips. The use of the delay index is to increase the types of mitigation options available. The primary reason the delay index and level of service (LOS) improves under the mitigated buildout scenario is due to operational improvements (turn lanes at intersections, intersection controls, and signal timing), not providing bike lanes. Level of service and delay are different measurements and cannot be readily compared; the pre/post intersection LOS and delay index inclusive of interventions is already provided in the Plan.
Update and correct data <ul style="list-style-type: none"> <li>- Provide more recent data</li> <li>- Current buildout projections for Midcoast and Half Moon Bay</li> </ul>	<p>New data collection is out of the scope of this project. Staff compared newer counts with 2014 data collected at certain locations and found commensurate values: this table is in the Appendices. New data will be collected by project sponsors at the time of project development.</p> <p>Chapter 4 of Connect the Coastside provides detail on the various projections used, including the Half Moon Bay Local Land Use Plan Update and HMB’s buildout projections.</p> <p>The summary table of the delay index in the January 2020 draft included incorrect summations; the <u>base data analysis and outputs did not change: the Appendices output of Synchro and</u></p>

General Comment	Response
	<p>Simtraffic data are the same. The project team caught errors in the January 2020 draft excel tables that summarized the final calculations and corrected this for the January 2021 Final Administrative draft. For example, in Table 16 of the January 2020 draft, the AM peak hour travel time is listed as 43 m and 44 sec (or 2,624 sec), and free flow travel time is 8 m 42 sec (or 522 sec). The delay index = peak period travel time / free flow travel time, so 2,624 / 522 = 5.02. But the delay index listed in the table is 18.82.</p>
<p>Add LOS on Highways 1 and 92 within HMB limits</p> <ul style="list-style-type: none"> <li>- Data from the HMB LUP Public Review Draft July 2019, specifically Table 3-9 Highway 1 and 92 Performance and Figure 3-3 Circulation System Performance, pages 3-38 and 3-39, which show existing (2018) LOS at PM Peak Hour on Highway 1 North of 92 as “F” and on Highway 92 within the City Limits as “E”.</li> </ul>	<p>The CTC project team added a reference to Half Moon Bay’s Local Coastal Land Use Plan (LCLUP) in Existing Roadway LOS section of Chapter 5: <i>“The City of Half Moon Bay’s Local Coastal Land Use Plan’s Table B-10 includes Highways 1 and 92 Roadway Level of Service for 2018 on page B-9: roadway LOS is F for Highway 1 north of Highway 92, D for Highway 1 south of Highway 92, and E for Highway 92 for the AM, PM, and weekend peak periods.”</i></p> <p>Similarly, the Project Team references HMB LCLUP in Existing Delay Index: <i>“For the weekday AM period, the delay index is 3.1 for Highway 1 north of Highway 92, 1.01 for Highway 1 south of Highway 92, and 1.3 for Highway 92. For the Weekday PM period, the delay index is 2.9 for Highway 1 north of Highway 92, 1.01 for Highway 1 south of Highway 92, and 1.8 for Highway 92.”</i></p> <p>Similarly, the Project Team references to HMB LCLUP Maximum Theoretical Buildout under projected deficiencies: <i>“The City of Half Moon Bay’s Local Coastal Land Use Plan’s Table B-10 includes Highways 1 and 92 Roadway Level of Service for maximum theoretical buildout on page B-9: roadway LOS is F for Highway 1 north of Highway 92, D or E for Highway 1 south of Highway 92, and F for Highway 92 for the AM, PM, and weekend peak periods.”</i></p> <p>Similarly, the Project Team references to HMB LCLUP MTB delay under projected deficiencies: <i>“The City of Half Moon Bay’s Local Coastal Land Use Plan’s Table B-10 includes Highways 1 and 92 delay index values for maximum theoretical buildout on page B-9.[1] For the weekday AM period, the delay index is 5.1 for Highway 1 north of Highway 92, 1.03 for Highway 1 south of Highway 92, and 2.3 for Highway 92. For the Weekday PM period, the delay index is 5.7 for Highway 1 north of Highway 92, 1.03 for Highway 1 south of Highway 92, and 3.9 for Highway 92.”</i></p> <p><sup>[1]</sup> City of Half Moon Bay Local Coastal Land Use Plan, Updated 2020. <a href="https://www.half-moon-bay.ca.us/154/Local-Coastal-Program-Land-Use-Plan">https://www.half-moon-bay.ca.us/154/Local-Coastal-Program-Land-Use-Plan</a></p>
<p>Midcoast permit numbers</p>	<p>The Final Administrative Draft includes the number of new residential units constructed and finalized in the study area between 2015-2020, to augment the 2014 numbers for existing</p>

General Comment	Response
<ul style="list-style-type: none"> <li>- Review number of building permits issued for accuracy</li> </ul>	housing units. The number of constructed and finalized units differs from building permits issued because these are two different measurements.
Demographics <ul style="list-style-type: none"> <li>- Use most recent Census data</li> </ul>	The most recent granular data available is through the 2019 American Community Survey, which is what is included in Connect the Coastside.
<b>COORDINATION WITH OTHER AGENCIES</b>	
Concerns in Half Moon Bay <ul style="list-style-type: none"> <li>- Signal synchronization. Highway 1 / 92 could be green northbound and light at Main / Highway 1 is red – leads to bottleneck for those turning on Highway 1 from 92, Strawflower Village, or Main</li> </ul>	CTC team alerted Half Moon Bay staff to this concern.
Coordination with Half Moon Bay (HMB) <ul style="list-style-type: none"> <li>- How two separate processes result in overall solution for Midcoast</li> <li>- What happens if HMB and the County don't agree on a solution/vision?</li> </ul>	CTC project team added a section in Chapter 8. Implementation called "ADVANCING IMPLEMENTATION THROUGH COORDINATION AND PARTNERSHIPS" that describes this further. In short, Half Moon Bay (HMB) and County staff have met regularly throughout the development of CTC, with HMB staff serving on the County's Technical Advisory Committee (TAC). HMB's vision for Highway 1 is outlined in their approved LCLUP, recently adopted bike/ped plan, and their Capital Improvement Program (CIP). Their vision is one of multimodality and collaborating with Caltrans to arrive at solutions that preserve the character of the coastside, which are goals shared by Connect the Coastside.
Caltrans coordination	Like above, the CTC project team added a section in Chapter 8. Implementation which describes this further. In short, Caltrans staff has participated on CTC's Technical Advisory Committee and reviewed the Final Administrative Draft. Caltrans and the County coordinate and engage through the permitting process and meet quarterly to advance shared project goals.
Montara Water and Sanitary District (MWSD) <ul style="list-style-type: none"> <li>- Engagement and impacts on high pressure water/sewer pipes</li> </ul>	Like above, the CTC project team added a section in Chapter 8. Implementation which describes coordination with utilities further. In short, the CTC project team provided a presentation to the MWSD Board about the Plan and has been in communication with staff about the high-pressure pipes. The CTC project team has called this consideration out as part of the new section, future cost estimates, and at the individual project level.
School Coordination <ul style="list-style-type: none"> <li>- School trips impact peak commute traffic; need school buses</li> <li>- Cabrillo Unified School District (CUSD) enrollment numbers falling</li> </ul>	Trips to school can contribute to congestion, as outlined in the Transit section of Chapter 6. Cabrillo Unified School District (CUSD) used to provide school bus services to students traveling to Farallone View Elementary School; however, they removed that service due to low ridership and because the "choice" school provision was changed to allow for more students to go to their neighborhood school (i.e., in walk/bike distance of home). Secondly, the district's anticipated enrollment is declining by over 300 students over the next 3 years. The demand for school buses has already gone down and will continue to diminish. Connect the Coastside is focused on supporting trips to school by walking and bicycling since most students live close to their school.

General Comment	Response
Coastal Commission Certification	The County does not intend to amend the LCP Policy 1.23 which includes a 40 unit/year cap and is not pursuing California Coastal Commission (CCC) certification of the Plan because the Plan itself is not an LCP amendment. The County met with CCC staff in March 2021 to discuss the Plan and shared the Final Administrative Draft for feedback. The County shared the Final Draft with the CCC. Individual LCP amendments stemming from implementation of Connect the Coastside will be brought to the CCC for consideration.
SamTrans <ul style="list-style-type: none"> <li>- SamTrans commitment to improvements in bus service</li> <li>- Does CTC rely on funding within SamTrans budget?</li> </ul>	CTC is a plan and funding for implementation of its recommendations will need to be identified. The CTC project team has shared the Plan with SamTrans staff and worked with SamTrans staff to develop the cost estimates for transit-related projects. CTC is a long-range plan and assumes project implementation will take place over a 30-year time frame; it does not identify where funding will come from on a per-project basis. County staff will continue to engage with SamTrans staff to implement transit recommendations over time. SamTrans is currently leading its own service planning effort (Reimagine SamTrans) to inform service changes, inclusive of coastside service.
Commute.org <ul style="list-style-type: none"> <li>- Opportunity to expand on potential coordination</li> </ul>	The CTC project team included a new section that highlights Commute.org called “Incentives for Sustainable Transportation” in Chapter 7. Recommendations, under other supportive efforts. Midcoast stakeholders can take advantage of the various Commute.org programs today and the County is already working with Commute.org as part of the City/County Association of Governments of San Mateo County (C/CAG) Transportation Demand Management (TDM) Policy.





COUNTY OF SAN MATEO - PLANNING AND BUILDING DEPARTMENT

# ATTACHMENT F

[REDACTED]

## Re: California Coastal Trail (CCT) improvements

[REDACTED]

Tue 11/9/2021 11:32 AM

[REDACTED]

Thank you, Jill! Appreciate your response and feedback. I will include Chanda in my future comments.

While I did make reference to Connect the Coastside and I did site the John Hernandez bridge as a potential safety issue on the blind curve on both ends, I was hoping to make an appeal for more joint cooperation and standards between all three jurisdictions that have a portion of the trail running through them for the CCT from Princeton down to Seymour bridge of the paved portions of the trail.

I haven't heard whether Coastside Land Trust was going to consider paving rather than just a dirt trail. I'm hoping for pavement as gravel can have it's own issues. I know there's been concern about some of the cracking found on various sections of the CCT. Those issues may be more related to inadequate preparation of the trail bed before asphalt was applied. Maybe this can be addressed in design. There are plenty of areas where there has been no problem with paving.

My main point was in trail width and adding additional area of decomposed granite (DG) on both sides for jogging and as an additional area to relieve congestion when people decide to stop in the middle of the trail. There's often not enough room to safely get around a group of people.

The suggestion about a JPA would perhaps allow for better coordination of projects between the entities to improve and maintain the trail. Perhaps even a joint advisory committee to review and entertain suggestions for approval...

As for CCC approval of trail improvements.... It would stand to reason that safety and use improvements would be of concern to them if properly submitted. After all, improving coastal access is within their purview....

Sincerely,

[REDACTED]

[REDACTED]

[REDACTED]

>

> [CAUTION]: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

>

>

> Greetings,

>

> I was looking over the Connect the Coastside proposal that is coming up for County Planning Commission review in the near future. Unfortunately, I didn't run across any mention of a need to widen and maintain the trail for safe use. It's certainly possible I could have missed it.

>

> I've mentioned the inadequate width of the trail in the past and it didn't seem to capture anyone's interest. I'm a frequent user of the CCT and I've noticed increased usage of the CCT particularly in the past two years. Weekends and holidays are even more saturated. It's this saturation that I believe poses risk to the pedestrian and bicycle users of the trail.

>

> It is not uncommon to come around a corner and have a group of people congregating in the middle or along the side of the trail. They may also have baby strollers, bicycles or other items that further block safe use of the trail. As the population grows, I think it's fair to say expanded use of resources such as the CCT will create additional congestion and therefore risk.

>

[REDACTED]

> I may not be reaching the correct audience for this issue, but I hope that it can be forwarded to the appropriate individuals should that be the case. My primary concern is the width of the trail. I believe it is insufficient for current demand and will only prove more risky as use increases. I believe it should be a minimal paved width of 11-12 feet with a dotted line down the center to help alert users to the fact it's a two way passage. In addition, it would be highly desirable to have a two to three foot decomposed granite path on both sides of the trail for joggers and as a safety pullout to adjust a baby in their stroller or other activities that may warrant stopping or slowing down. Desirably, the edge between the pavement and the decomposed granite would be tapered so as not to create an edge for a bicycle tire to catch on and throw the rider.

>

> While I'm at it, I think it would benefit the maintenance of the paved portion of the CCT between The Seymour Bridge and Princeton to be consolidated into a JPA or something of that nature to coordinate the maintenance activities to a joint standard where each jurisdiction (State Parks, County of San Mateo and the City of Half Moon Bay) contributes \$\$\$ to their relative proportion of the overall length of the trail where maintenance needs to be performed to bring the trail up to agreed upon standards. Changes could be implemented incrementally.

>

> This type of change would also need to include the trimming of foliage outside the decomposed granite paths, as well as relocation of the cross-tie fencing in certain places along the trail. It would also improve safety to have warnings to slow down and sound bell on blind curves, especially such as the approach from both directions to the 400 foot John Hernandez bridge crossing Pilarcitos Creek near the SAM plant. Speed limit signs and reminders of safe usage of the trail would also help deter speeders.

>

> Sorry to unload this on you guys! Hope you can find a way to support it. It's been on my mind for several years and it would seem timely to address as we look at extending the CCT and acknowledge that what we currently have may need to be evaluated for safely providing recreation activities on the CCT. We want everyone to have a great time and make it home safely.

>

> Just my two cents...

>

> Sincerely,

>

[REDACTED]

Form submission from:



Submitted on Monday, November 15, 2021 - 11:31am

Submitted by user: Anonymous

Submitted values are:

Name:

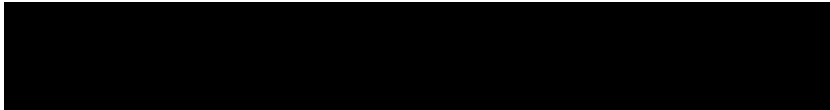


Email Address:



Send Us a Comment: Making hi 92 a class III bikeway is too dangerous for motorists if you intend to narrow the lanes. The road is already too narrow where there's no center barrier. "Bike routes are generally not appropriate for roadways with higher motor traffic speeds or volumes:"

[http://lrbikecoalition.org/wp-content/uploads/2017/12/caltrans-d4-bike-plan\\_bikeway-classification-brochure\\_072517.pdf](http://lrbikecoalition.org/wp-content/uploads/2017/12/caltrans-d4-bike-plan_bikeway-classification-brochure_072517.pdf)



## Underpassess on Hwy 1

[REDACTED]

Fri 12/3/2021 9:17 AM

[REDACTED]

---

Hello,

As a long time resident of the Coastside, a bicyclist and auto commuter it is clear to me that we really need underpasses on Hwy 1 to allow pedestrians to safely cross this busy road. Residents and school kids already us culverts under Hwy 1 to safely cross- but people in wheelchairs and walkers can't use these culverts. Underpasses are used in many locations in CA and other states. We do NOT need more stoplights. Any more stoplights and traffic would back up substantially more than it does now and cause major delays when peds use the light. I urge you to recommend underpassess in future plans for the Coastside.

Regards,

[REDACTED]

[REDACTED]

RE: SMC Supervisor Approval of Connect the Coastside Plan

**From:** [REDACTED]  
**Sent:** Sunday, January 2, 2022 10:43 PM  
**To:** CMO\_BoardFeedback <[BoardFeedback@smcgov.org](mailto:BoardFeedback@smcgov.org)>  
**Cc:** [board@samtrans.com](mailto:board@samtrans.com)  
**Subject:** SMC Supervisor Approval of Connect the Coastside Plan

**CAUTION: This email originated from outside of San Mateo County. Unless you recognize the sender's email address and know the content is safe, do not click links, open attachments or reply.**

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To: San Mateo County Board of Supervisors  
CC: SamTrans Board of Directors  
BCC: San Mateo Coastside Leadership and Community Organizations, Other Affected Transit Stakeholders

It was first brought to my attention that an updated [Connect the Coastside](#) traffic plan "...will likely be approved by the Board of Supervisors in the spring..." in the December 29, 2021 edition of the Pacifica Tribune, a publication of the Coastside News Group, a local news organization that consistently

demonstrates its commitment to connecting the coasts. The website link for the *Connect the Coasts* traffic plan is:

[https://planning.smcgov.org/sites/planning.smcgov.org/files/Connect%20the%20Coasts%20Final%20Draft\\_Oct%202021.pdf](https://planning.smcgov.org/sites/planning.smcgov.org/files/Connect%20the%20Coasts%20Final%20Draft_Oct%202021.pdf)

There are several inconsistencies in the *Connect the Coasts* comprehensive plan which should be addressed before final approval, including:

(1) Page 26 (pdf) Approach - "The goals of the outreach efforts were to hear from as many different Coasts stakeholders as possible and to provide multiple ways to learn about and provide comments on the Plan." Page 168 (pdf) Traffic Control Measures "Connect the Coasts recommends the Planning and Building Department engage partners, including the cities of Pacifica and Half Moon Bay, to develop a coordinated approach to traffic control for uses and events that generate large traffic volumes."

I live in Pacifica, 4 blocks from the Pacifica Ocean on the east side of state route 1. The Dec 29<sup>th</sup> publication in our local paper is the first I am hearing about an updated *Connect the Coasts* plan. Additionally, there are no advisors listed in the plan from Pacifica City Staff, local Economic Development Committee, Pacifica Police or local Pacifica Community Resource organizations.

(2) Page 11 (pdf) Background "The County does not intend to amend LCP Policy 1.23 and plans to continue limiting the maximum number of dwelling units to 40 units each calendar year."

There is no account made of actual real growth on the coast:

a) No mention or accommodation for Housing Growth as mandated in the [ABAG Regional Housing Needs Allocation page 27 \(pdf\)](#): Pacifica 1892 and Half Moon Bay 480 additional housing units.

b) No account for the March 2021 Coastal Commission approval of [71 affordable housing units in Moss Beach](#).

Possible actions and changes before approval might include:

1. Approach Pacifica stakeholders for feedback and comments. Include the hiking and biking routes from the north side of the planning area that connect the coasts from the Pedro Point Headlands to the newly named [Aramai Point](#) all the way to Mussel Rock in Daly City.

2. Recommend that a San Mateo Coasts Transportation Demand Planning (TDM) project be created that includes the coasts from Pescadero to Pacifica and references the *Connect the Coasts* plan as a subset of the overall Coasts TDM. This can be funded by the \$1.7M annual allocation for TDM planning by the San Mateo County Transportation Authority (SMCTA). Competitive call for projects is anticipated Spring 2022, 30% percent grant funding is allocated for "Small and Coastal Jurisdictions" ([page 32 \(pdf\) Draft ACR/PDF Plan](#).)

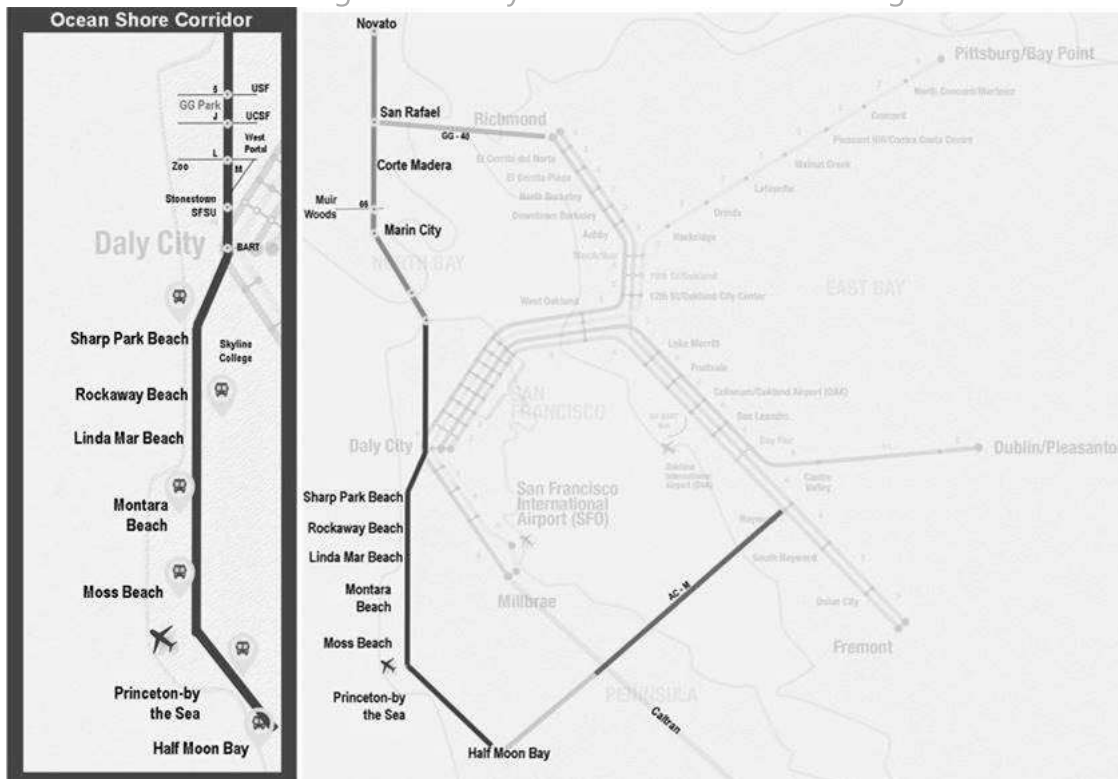


3. SamTrans planners and project managers have done an excellent job through their recent Reimagine SamTrans initiative, planning efficient local public bus transportation to local schools and to local places on the coast for those who cannot drive. Despite SamTrans passion and commitment to our communities in need, due to severe lack of funding, connection for a rider to regional 'rail' corridors can be up to 25 miles and take 1-2 hours, leaving our most vulnerable 'stranded' on the coast.

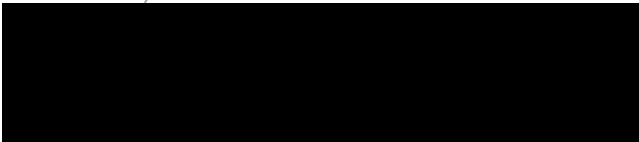
The SMC Board might take the action to support or better yet sponsor a request to the Metropolitan Transit Commission (MTC) to establish an OceanShore Corridor pilot when the MTC creates the task force to evaluate 'Regional Bus Corridors' for the 9 county Bay Area Transportation Region. This would add a single-ride bus 'regional' corridor a stones throw from existing local bus routes for truly connecting the coastside.

a) The MTC has established a working task force model for planning regional transit initiatives as demonstrated by unanimous approval by the Commissioners of Blue Ribbon Recovery Task Force to move forward with a Regional 'Fare Integration' pilot project.

b) The MTC has established a relationship with Caltrans District 4 leadership, whose Director is a MTC Commissioner, participated on the Blue Ribbon Task force and has agreed to fully collaborate with future regional task force initiatives.



Thank You,



Midcoast  
ECO



*Sensible planning and protection  
for the San Mateo County Midcoast*

January 15, 2022

To: Midcoast Community Council - [midcoastcommunitycouncil@gmail.com](mailto:midcoastcommunitycouncil@gmail.com)

From: the Board of Midcoast ECO

CC:

Katie Faulkner - [kfaulkner@smcgov.org](mailto:kfaulkner@smcgov.org)

Chanda Singh - [csingh@smcgov.org](mailto:csingh@smcgov.org)

Re: Comment letter re Connect the Coastside Final Draft, October 2021

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Dear Members of the Midcoast Community Council,

Per your request at the recent MCC Meeting, please see our comments / questions from November 2021 regarding the Final Draft of Connect the Coastside. We are working on additional comments which we will submit to the County in coming weeks.

Please also refer to our March 2021 letter regarding additional comments by Midcoast ECO regarding the CTC - [Click here for our March 2021 letter](#).

Thank you for considering our comments as you draft your letter to the County.

- Board, Midcoast ECO

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**November 2021 - CTC Final Draft Overview - Midcoast ECO Comments:**

While the Final Draft is well written to make it reader friendly, the long-range timelines and high cost projections for most of these projects raise the question as to their viability, especially considering the many agencies involved and the changing environment over the 30-year timeframe. Does this plan actually provide timely mitigation for the impact of residential development on coastal access and environmental concerns as intended by the LCP or is it more of a County plan to serve as a fund-raising and development tool? Given that developers and planners will be pointing to the CTC in seeking approval for their projects, we have concerns that there is a disconnect between plan and reality:



- Final Draft is well written and well organized
- Timelines are overly optimistic and yet exceedingly long
- Price tags are very high and missing key elements
- There is a disconnect between Plan and reality
- How will this be utilized for new development?

The [Executive Summary](#) and the [Response to Comments](#) from previous reviews are short and a good place to start reading the Final Draft. The [memo on environmental review](#) addresses CEQA applicability. Below are some points we believe are important to note:

**1. No Evacuation / Hazard Plan exists for the Coast** - A real evacuation / hazard plan for the coast does not exist and the County declares CTC "is a transportation plan that intends to improve traffic conditions for typical conditions." Connect the Coastside has provided additional information on other County emergency response and evacuation efforts on p.167 of the Plan. However, the impact of further residential development is not addressed.

**2. Significant costs and who will pay?** - There is no funding identified for these projects. The process to secure grants and public funding is long and very competitive. [Click here to see the Cost Estimates \(also posted below\)](#). The CTC team added a clause in "Overview" section of Chapter 8, *"Implementation of Connect the Coastside will require strong partnerships with actors like Caltrans, other agencies, and ongoing support from the community to work together to find common ground on detailed project designs and funding mechanisms, such as pursuing competitive grants or using existing resources."*

Connect the Coastside is a conceptual plan and includes general estimates to guide planning. The CTC project team added language in "Planning-level cost estimates" Chapter 8: *"Cost estimates presented are planning- level and conceptual, using unit costs for key construction items, lump sums for environmental engineering, right-of-way acquisition, and utility coordination, and have additional contingency amounts added based on a percentage of total construction costs. As projects undergo further planning as part of the implementation process, assumptions will be revisited and revised which will affect costs. For example, any utility impact costs, such as relocation,*



*Sensible planning and protection  
for the San Mateo County Midcoast*

*will be evaluated in detail in future phases of project design and incorporated into the project cost."*

**3. Exceedingly Long Timeline** - The project implementation timeline (Table 33) and early implementation actions (Table 34) are acknowledged as optimistic. [Click here to see the Timetable \(also posted below\)](#). We have highlighted a few major projects impacting the Highway 1 intersections along the Midcoast and note that they are **projected beyond 8 years out and likely beyond 16 years out**. Completion of the Pe2 Multimodal Coastal Trail and T3 Increased Midcoast Transit Service are out in the 8 to 16 year timeframe. The projects in the near-term completion estimate are either already underway or are lower in cost and of lesser scope.

"The key considerations that influence the timeline are included in Chapter 8, Implementation under 'Next Steps'. General assumptions included at least 1 full time equivalent in the Planning and Building Department to support implementation, and willingness from key partners (for example, Caltrans, SamTrans, and others) to engage with Planning and Building staff and work collaboratively to identify opportunities for implementation with their respective agencies. Although Planning & Building staff have led the development of Connect the Coastside, this department is not in charge of County resources nor infrastructure decisions, so can largely act in a leadership and convening role only."

**4. Transportation impacts due to visitors / non-residents are not considered** - "Connect the Coastside is intended to address LCP Policy 2.53 Transportation Management Plan, which is to address the cumulative traffic impacts of residential development. The Plan does not provide specific data on visitor-related traffic but does reference the impact of visitors more generally on travel conditions. Visitor traffic is an important consideration for the development of the recommendations and is incorporated into the analysis as part of weekend peak period traffic counts. The Plan's recommendations intend to mitigate for vehicle trips due to both residents and visitors with a focus on modal shift." --  
- Yet the timeline projected for the modal shift depends on implementation of transit improvements and new modes of transportation, both of which are optimistically out in the 8 to 16 year projection at best.



**5. No Coastal Commission Certification** - "The County does not intend to amend the LCP Policy 1.23 which includes a 40 unit/year cap and is not pursuing California Coastal Commission (CCC) certification of the Plan because the Plan itself is not an LCP amendment. The County met with CCC staff in March 2021 to discuss the Plan and shared the Final Administrative Draft for feedback.... Individual LCP amendments stemming from implementation of Connect the Coastside will be brought to the CCC for consideration." --- The LCP identifies specific policies that are to be part of the comprehensive traffic management plan as well as evaluation of feasibility of in-lieu fee traffic mitigation, the expansion of public transit and the development of a mandatory lot merger program all of which remain incomplete in this final draft.

**6. SamTrans Commitment Undetermined** - "CTC is a plan and funding for implementation of its recommendations will need to be identified. The CTC project team has shared the Plan with SamTrans staff and worked with SamTrans staff to develop the cost estimates for transit-related projects..... SamTrans is currently leading its own service planning effort (Reimagine SamTrans) to inform service changes, inclusive of coastside service."

**7. Environmental Review?** - The SMC Planning and Building Department has determined that Connect the Coastside is not a project under CEQA and therefore not subject to CEQA review.



Table 35: Recommended Infrastructure Planning-Level Cost Estimates\*

Number	Project Name	Cost (to nearest \$1,000)
R1A	Highway 1 Shoulder Treatment – Village	\$2,401,000
R1B	Highway 1 Shoulder Treatment – Fringe	\$1,603,000
R2	Highway 1 Side Street Stop Signs	\$27,000
R3	Gray Whale Cove Turn and Acceleration Lanes	\$438,000
R4	Highway 1 Turn and Acceleration Lanes at 8th Street	\$387,000
R5	16th St / Highway 1 Intersection Control	\$5,442,000
R6	California Ave / Highway 1 Intersection Control	\$4,961,000
R7	Cypress Ave / Highway 1 Intersection Control	\$13,983,000
R8	Main Street Traffic Calming and Bicycle/Pedestrian Connectivity	\$655,000
R9	Carlos Street Realignment to 16th Street	\$1,123,000
R10	Carlos Street Traffic Calming	\$329,000
R11	Highway 92 / Highway 35 (East, Lower) Intersection Improvements	\$254,000
R12	Highway 92 / Highway 35 (West, Upper) Intersection Control	\$619,000
R13	Highway 92 Truck Signs	\$2,000
R14	Highway 92 Left-turn Pockets	\$685,000
Pe1A	Highway 1 Uncontrolled Pedestrian Crossings	\$2,262,000
Pe1B	Highway 1 Pedestrian Overcrossing	\$4,804,000
Pe1C	Highway 1 and Coronado St. Improved Pedestrian Crossing	\$121,000
Pe2	Highway 1 Multimodal Parallel Trail	\$9,116,000
Pe3	Midcoast Alignment Completion of California Coastal Trail	\$1,951,000
Pe4	Highway 1 Sidewalks in Moss Beach and Montara	\$568,000
Pe5	Central Moss Beach Bicycle and Pedestrian Improvements	\$65,000
Pe6	Montara Safe Routes to School	\$310,000
Pe7	El Granada Safe Routes to School	\$1,162,000
Pe8	Capistrano Road (South) Intersection Improvements	\$256,000
B1	Highway 1 Bikeway	\$5,908,000
B2	Airport Street Bikeway and Princeton Connections	\$2,017,000
B3	Capistrano Road Bikeway	\$297,000
B4	Highway 92 Bikeway	\$4,833,000
B5	Bicycle Parking	\$340,000
T1	Transit Stop Improvements	\$4,274,000
T2A	Recreational Microtransit (Fixed Costs)	\$1,260,000
T2B	Recreational Microtransit (Annual Operating Costs) <sup>1</sup>	\$926,000
T3A	Increased Midcoast Bus Service (Fixed Costs)	\$3,060,000
T3B	Increased Midcoast Bus Service (Annual Operating Costs) <sup>1</sup>	\$3,400,000
Pa1	Upper Gray Whale Cove Parking Lot Improvements	\$1,219,000
Pa2	Wayfinding	\$185,000
<b>TOTAL<sup>1*</sup></b>		<b>\$76,917,000</b>

\*Cost estimates are planning-level and preliminary and subject to change

<sup>1</sup>Total excludes annual operating costs for transit service (T2B and T3B)



Table 33: Project Implementation Timeline

Project #	Project	Phases:			
		Near-term (0 to 7 years)	Medium-term (8 to 16 years)	Long-term (17 to 30 years)	
R1	SR-1 Shoulder Treatment (Village and Fringe)		Phases 1 - 4	Phases 5 - 6	
R2	SR-1 Side Street Stop Signs	Phases 1 - 4	Phases 5 - 6		
R3	Gray Whale Cove Turn and Acceleration Lanes	Phases 1 - 4	Phases 5 - 6		
R4	Highway 1 Turn and Acceleration Lanes at 8 <sup>th</sup> Street		Phases 1 - 4	Phases 5 - 6	
R5	16th St / Highway 1 Intersection Control	Phases 1 - 2		Phases 3 - 6	
R6	California Ave / Highway 1 Intersection Control	Phases 1 - 2	Phases 3 - 6		
R7	Cypress Ave / Highway 1 Intersection Control	Phases 1 - 2	Phases 3 - 6		
R8	Main Street Traffic Calming and Bike/Ped Connectivity	Phase 1	Phases 2 - 6		
R9	Carlos Street Realignment to 16th Street		Phases 1 - 4	Phases 5 - 6	
R10	Carlos Street Traffic Calming	Phase 1	Phases 2 - 6		
R11	Highway 92 / Highway 35 (East, Lower) Intersection Improvements		Phases 1 - 6		
R12	Highway 92 / Highway 35 (West, Upper) Signal			Phases 1 - 6	
R13	Highway 92 Truck Signs	Phases 1 - 6			
R14	Highway 92 Left-turn Pockets		Phases 1 - 2	Phases 3 - 6	
Pe1	New and Improved Pedestrian Crossings of Highways 1 and 92	Phases 1 - 6 (subset of crossings)	Phases 1 - 6 (subset of crossings)	Phases 1 - 6 (completion)	
Pe2	Highway 1 Multimodal Parallel Trail	Phase 1 - 2	Phases 3 - 6		
Pe3	Midcoast Alignment of California Coastal Trail		Phases 1 - 4	Phases 5 - 6	
Pe4	Highway 1 Sidewalks in Moss Beach and Montara		Phases 1 - 4	Phases 5 - 6	
Pe5	Central Moss Beach Bicycle and Pedestrian Improvements	Phases 1 - 2	Phases 3 - 6		
Pe6	Montara Safe Routes to School		Phases 1 - 6		
Pe7	El Granada Safe Routes to School		Phases 1 - 6		
Pe8	Capistrano Road (South) Intersection Improvements		Phases 1 - 6		
B1	Highway 1 Bikeway	Phase 1	Phases 2 - 6		
B2	Airport Street Bikeway and Princeton Connections	Phases 1 - 2	Phases 3 - 6		
B3	Capistrano Road Bikeway	Phases 1 - 2	Phases 3 - 6		
B4	Highway 92 Bikeway			Phases 1 - 6	
B5	Bicycle Parking	Phases 1 - 6			
T1	Transit Stop Improvements	Phase 1	Phases 2 - 6		
T2	Recreational Microtransit	Phase 1	Phases 2 - 6		
T3	Increased Midcoast Bus Service	Phase 1	Phases 2 - 6		
Pa1	Upper Gray Whale Cove Parking Lot Improvements	Phases 1 - 3	Phases 4 - 6		
Pa2	Wayfinding	Phase 1	Phases 2 - 6		

Form submission from:

Someone has just submitted the Connect the Coastsides contact form. Here are the results:

Submitted on Tuesday, January 18, 2022 - 7:32am

Submitted by user: Anonymous

Submitted values are:

Name: [REDACTED]

Send Us a Comment:

Dear MidCoast Community Council Representatives and Connect the Coastsides Project Team,

As principal of Farallone View Elementary School, I have the privilege and pleasure of working with numerous and various members of our coastsides community. After reviewing the Connect the Coastsides Plan (CCP), I'd like to reiterate a few concerns presented by Farallone View parents as well as our Safe Routes to School coordinator, Carlene Foldenauer.

While I am glad to see that the plan does account for "various improvements to make it easier to walk and bike to Farallone View Elementary School, including sidewalks, Class III Bike Routes, improved crossings, and stop signs," these improvements are limited to just a few areas of Montara (as illustrated in Map 11 of the CCP) and do not account for many of our students' routes to school. The Connect the Coastsides Plan does not address the large number of intersections without any stop signs or traffic signage throughout Montara. As you can imagine, this lack of signage has led to precarious situations for many drivers (myself included), bicyclists, and pedestrians alike. As you heard at the January 12 MCC meeting, for example, one of our students was knocked off his bicycle on his way to school that morning when a driver clipped his back tire. We need to prevent further incidents such as this. It may only be a matter of time before something far more serious occurs. Adding stop signs to uncontrolled intersections as well as additional speed limit and pedestrian crossing signs at strategic points throughout Montara would make our school community much safer.

I hope you will take these concerns into consideration as you move forward with the Connect the Coastsides Plan. Thank you for your time.

Sincerely,

[REDACTED]



# Midcoast Community Council

*An elected Advisory Council to the San Mateo County Board of Supervisors  
representing Montara, Moss Beach, El Granada, Princeton, and Miramar  
PO Box 248, Moss Beach, CA 94038-0248 | [midcoastcommunitycouncil.org](http://midcoastcommunitycouncil.org)*

**Claire Toutant | Gregg Dieguez | Michelle Weil | Len Erickson | Dave Olson | Jill Grant | Dan Haggerty**

Chair                      Vice-Chair                      Treasurer                      Secretary

Date:                      January 26, 2022  
To:                      Chanda Singh, Katie Faulkner, Planning Commission, Erik Martinez (CCC)  
From:                      Midcoast Community Council  
Subject:                      Comments on the Final Draft of the CTMP (Connect the Coastside)

The Midcoast Community Council appreciates the years of hard work that produced the final draft, and the responsiveness to community comments and requests for more information. and particularly the emphasis on safety for pedestrians and bicyclists. The study of and recommendations for additional recreational parking is also much appreciated, since lack of parking slows traffic.

Community and council members are concerned that the work of the Connect the Coastside project be represented as a living document and process referred to as the Comprehensive Transportation Management Plan (CTMP), with public tracking of the projects, to be sure that they are actually built in a timely fashion, and that future significant County and development projects take the CTMP into account. We look forward to working with County Agencies, CalTrans, and the Midcoast community, in advancing improvements to this traffic corridor.

The MCC understands that once approved by the Board of Supervisors this document will be considered complete. There are recommendations such as the addition of the Delay Index Metric change to LCP 2.43 which will be discussed with the CCC as future LCP amendments. The MCC requests that potential LCP amendments be noted in the Executive Summary prior to Board approval, as well as acknowledging the omission of a lot retirement program.

The community is concerned that the CTMP remains focused almost exclusively along Highway 1, and not adjacent streets used by students and other pedestrians. The community would like additional Safe Route to School projects around Farallone View and El Granada to be accelerated.

There is strong concern within the Council and community that the final draft contains nothing to improve evacuation routes. We recognize this isn't part of the original charter of this process, however it has become a significant issue for visitors, as well as residents.

There is mixed opinion within both the community and the council about roundabouts, with some concerned about traffic being slowed down unnecessarily. Majority opinion has been shifting with time, and now the community majority as well as the council seems to prefer roundabouts over signalized intersections, so we appreciate the attention they were given. There is some community concern about multiple roundabouts close to each other.

With the exception of public transit improvements in the CTMP, some in the community and the council feel that there is little in the draft to address the impact of residential buildout on public access to the coastline.

The absence of any form of lot retirement increases the buildout impact on traffic. A lot retirement program should be added that is independent of specific development, to be funded by increased development traffic mitigation fees to be used to purchase lots with permanent easements placed on the lots to prevent development. Buildout impact is compounded by the changes in state law that allow ADUs administratively on almost all lots in the Midcoast. Similarly, dropping forced lot mergers results in separate parcel sales, and more potential homes. We disagree with the logic that mandatory lot mergers would accelerate building, because the primary issue is buildout impact on traffic, not the timing of development.

Some people on the council and in the community would like CTMP to include studies of non-grade pedestrian crossings, either below or above Highway 1, other than the overhead crossing near 16th St in Montara.

The proposed changes to Carlos St. that would result in one way traffic are disliked by most in the community and on the council. Alternatives to accomplish the goals are available, so we request that the recommendation for that one-way project be removed.

There is significant concern in the community about the long timeline for some of the projects with the biggest potential effect on reducing traffic and/or traffic delays. There is real need for accelerating planning and funding for these projects, particularly the Multimodal Coastal Trail, and improved transit service (and the absence of commitment from Samtrans).

Since the Executive Summary is the most likely document to be read and referred to in the future, it would be helpful to have the maps in the Summary annotated with the project numbers (e.g. R1).

This letter was approved unanimously by the Council.

s/Claire Toutant, Chair

2/1/22

Hello SMC & Connect the Coastside project team,

Here are [REDACTED] comments regarding "Connect the Coastside - San Mateo County Midcoast Comprehensive Transportation Management Plan Executive Summary - Final Draft - October 2021":

1) In Executive Summary Table 1: break out the separate sub-projects (A,B,C) so that Table 1 matches line items in Tables 35 & 41 of the main report, in particular, add line items for Pe1A, Pe1B, Pe1C.

2) In the Executive Summary, make a copy of Maps #2 thru #8, add these maps to the Summary, and revise them as follows. (using a copy of the maps leaves the original versions in the document for clarity)

2a) Create a key to project locations by annotating a copy of Maps #2 thru #8 in the Executive Summary with applicable Project "Numbers" (R1 to Pa2) found on Table 1.

2b) Annotate the copy of Maps #2 thru #8 in the Executive Summary with text labels for some of the biggest proposed projects, e.g. Project Pe1B "Highway 1 Pedestrian Overcrossing" and other major proposed improvements.

3) To Executive Summary Table 1: add the estimated project costs from Table 35.

4) To Executive Summary Table 1: add references to significant figures and other info found in the main report, e.g. reference Figure 7 (pg 118) on the line item for R7 (Cypress roundabout). Also, the Executive Summary text would be more useful if references were made to important figures, tables and other key info in the main report.

5) Add a copy of the revised set of project maps, with project locations shown (per comment #2 above) , to the main report, possibly as an appendix.

6) Note in the report that there has been community interest in having the feasibility of an undercrossing in central Moss Beach considered, as opposed to the current overcrossing proposal located at the north end of town, near 16th. This would be an appropriate topic for the upcoming Moss Beach SR-1 Corridor Study.

Other thoughts regarding a Moss Beach underpass:

- We suspect a majority of the community would favor an underpass in central Moss Beach instead of an overpass at the north end of town.

- An underpass would be closer to where the highest crossing demand exists (we believe) as opposed to the north end overpass.

- A north end overpass may require a pedestrian/bike to cross California St at the high volume California St roundabout (twice?) to get across Hwy 1 to and from central Moss Beach (e.g. to and from the Coastside Market)

- A north end overpass would dramatically, negatively, impact the view.

- The engineering, land use, cost, etc issues would make a Moss Beach underpass a longer term project, however we believe the concept warrants consideration in the planning process by qualified individuals.

sincerely,

A black rectangular redaction box covering the signature of the sender.

This text was also submitted as a comment on the SMC webpage:  
<https://planning.smcgov.org/connect-coastside>