



**Santa Cruz County Regional
Transportation Commission's
BICYCLE ADVISORY COMMITTEE**

AGENDA

Monday, February 10, 2020

6:00 pm to 8:30 pm

**RTC Office
1523 Pacific Ave
Santa Cruz, CA 95060**

COMMITTEE MEMBERSHIP

<u>Member</u>	<u>Alternate</u>	<u>Representing</u>
Grace Voss	Janneke Strause	District 1
Shea Johnson	Casey Beyer	District 2
Peter Scott	Sally Arnold	District 3
Anna Kammer	Vacant	District 4
Rick Hyman	Theresia Rogerson	District 5
Mike Moore	Vacant	City of Capitola
Matt Farrell	Bruce Sawhill	City of Santa Cruz
Richard Masoner	Vacant	City of Scotts Valley
Murray Fontes	Drew Rogers	City of Watsonville
Amelia Conlen, Chair	Matt Miller	Ecology Action
Leo Jed	Jim Langley	Comm. Traffic Safety Coalition

The majority of the Committee constitutes a quorum for the transaction of business.

1. Call to Order
2. Introductions
3. Announcements – RTC staff
4. Oral communications – members and public

The Committee will receive oral communications during this time on items not on today's agenda. Presentations must be within the jurisdiction of the Committee, and may be limited in time at the discretion of the Chair. Committee members will not take action or respond immediately to any Oral Communications presented, but may choose to follow up at a later time, either individually, or on a subsequent Committee agenda.

5. Additions or deletions to consent and regular agendas

CONSENT AGENDA

All items appearing on the consent agenda are considered to be minor or non-controversial and will be acted upon in one motion if no member of the Committee or public wishes an item be removed and discussed on the regular agenda. Members of the Committee may raise questions, seek clarification or add directions to Consent Agenda items without removing the item from the Consent Agenda as long as no other committee member objects to the change.

6. Approve draft minutes of the December 9, 2019 Bicycle Advisory Committee meeting
7. Accept summary of hazard reports
8. Approve recommendation to the RTC to approve Santa Cruz County's Transportation Development Act (TDA) allocation request for \$475,000 for Bike Lane Maintenance and \$30,000 for Street Smarts Campaign.
9. Accept informational item: Letter from SCCRTC Bicycle Advisory Committee to Santa Cruz County Public Works regarding Aptos Village Improvements Phase 2B design

REGULAR AGENDA

10. Transit Corridor Alternatives Analysis – Goals/Screening Criteria/Performance Measures & Universe of Alternatives – Ginger Dykaar, RTC Sr. Transportation Planner and Brianna Goodman, RTC Transportation Planner
11. Rail Trail North Coast Project design review – Grace Blakeslee, RTC Sr. Transportation Planner
12. Regional Transportation Plan 2045 Project List review and provide input – Amy Naranjo, RTC Transportation Planner
13. Caltrans District 5 Active Transportation Plan – form ad-hoc committee to review future draft version – Tommy Travers, RTC Transportation Planner (oral update)
14. Updates related to Committee functions – Committee members (oral updates)
15. Adjourn

NEXT MEETING: The next Bicycle Committee meeting is scheduled for April 13, 2020 from 6:00pm to 8:30pm at the RTC Office, 1523 Pacific Ave, Santa Cruz, Calif.

HOW TO REACH US

Santa Cruz County Regional Transportation Commission
1523 Pacific Avenue, Santa Cruz, CA 95060
phone: (831) 460-3200 / fax (831) 460-3215
email: info@sccrtc.org / website: www.sccrtc.org

AGENDAS ONLINE

To receive email notification when the Bicycle Committee meeting agenda packets are posted on our website, please call (831) 460-3200 or email info@sccrtc.org to subscribe.

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The Santa Cruz County Regional Transportation Commission does not discriminate on the basis of disability and no person shall, by reason of a disability, be denied the benefits of its services, programs, or activities. This meeting location is an

accessible facility. If you wish to attend this meeting and require special assistance in order to participate, please contact RTC staff at 460-3200 (CRS 800/735-2929) at least three working days in advance of this meeting to make arrangements. People with disabilities may request a copy of the agenda in an alternative format. As a courtesy to those person affected, Please attend the meeting smoke and scent-free.

SERVICIOS DE TRADUCCIÓN/TRANSLATION SERVICES

Si gusta estar presente o participar en esta junta de la Comisión Regional de Transporte del condado de Santa Cruz y necesita información o servicios de traducción al español por favor llame por lo menos con tres días laborables de anticipo al (831) 460-3200 para hacer los arreglos necesarios. (Spanish language translation is available on an as needed basis. Please make advance arrangements at least three days in advance by calling (831) 460-3200.)

TITLE VI NOTICE

The RTC operates its programs and services without regard to race, color and national origin in accordance with Title VI of the Civil Rights Act. Any person believing to have been aggrieved by the RTC under Title VI may file a complaint with RTC by contacting the RTC at (831) 460-3212 or 1523 Pacific Avenue, Santa Cruz, CA, 95060 or online at www.sccrtc.org. A complaint may also be filed directly with the Federal Transit Administration to the Office of Civil Rights, Attention: Title VI Program Coordinator, East Building, 5th Floor-TCR, 1200 New Jersey Ave., SE, Washington, DC 20590.

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**Santa Cruz County Regional
Transportation Commission's**

BICYCLE ADVISORY COMMITTEE

DRAFT MINUTES

**Monday, December 9, 2019
6:00 pm to 8:30 pm**

**RTC Office
1523 Pacific Ave
Santa Cruz, CA 95060**

1. Call to Order: Chair, Amelia Conlen called the meeting to order at 6:00 pm.
2. Introductions

Members Present:

Amelia Conlen, Bike-to-Work, Chair
Grace Voss, District 1
Peter Scott, District 3
Sally Arnold, District 3 (Alt.)
Anna Kammer, District 4
Rick Hyman, District 5
Michael Moore, City of Capitola
Matt Farrell, City of Santa Cruz
Murray Fontes, City of Watsonville
Drew Rogers, City of Watsonville (Alt.)
Leo Jed, CTSC

Unexcused Absences:

Excused Absences:

Janneke Strause, District 1 (Alt.)
Shea Johnson, District 2
Casey Beyer, District 2 (Alt.)
Theresia Rogerson, District 5 (Alt.)
Bruce Sawhill, City of Santa Cruz (Alt.)
Richard Masoner, City of Scotts Valley
Jim Langley, CTSC (Alt.)
Matt Miller, Bike-to-Work (Alt.)

Vacancies:

District 4 – Alternate
City of Capitola – Alternate
City of Scotts Valley – Alternate

Staff:

Tommy Travers, Transportation Planner
Grace Blakeslee, Senior Transportation Engineer
Ginger Dykaar, Senior Transportation Engineer
Luis Mendez, Deputy Director
Rachel Moriconi, Senior Transportation Planner

Guests:

Russell Chen, County of Santa Cruz
Tim Nguyen, County of Santa Cruz
Piet Canin, Bike-to-Work/Ecology Action
Gina Cole, Bike Santa Cruz County

3. Announcements – Staff announced that
4. Oral communications – Sally Arnold announced that the Friends of the Rail & Trail will hold an event January 25 at 1pm at Santa Cruz Mountain Brewery to celebrate the groundbreaking of the Rail Trail Segment 7.
5. Additions or deletions to consent and regular agendas – None

CONSENT AGENDA

Members requested, in light of recent hazard reports regarding construction zones, that staff remind other jurisdictions of state requirements for bicycle detour signage. A motion (Hyman/Jed) was made to approve the consent agenda. The motion passed unanimously with members Conlen, Voss, Scott, Kammer, Hyman, Moore, Farrell, Fontes, and Jed voting in favor.

6. Approved draft minutes of the November 4, 2019 Bicycle Advisory Committee meeting
7. Accepted summary of hazard reports
8. Accept informational item: Bicycle Advisory Committee Roster including Matt Miller as new Alternate for Bike to Work seat

REGULAR AGENDA

9. Aptos Village Project Phase 2B roadway improvements update and review – Tim Nguyen & Russell Chen, County of Santa Cruz staff, described the project which will include a new traffic signal at Soquel Dr and Aptos Creek Rd, a new railroad crossing signal at Aptos Creek Rd, curb, gutter, and sidewalks in portions, storm drain system, overlay and striping, new video detection at Spreckels Dr, and traffic signal synchronization capability between State Park Drive and Trout Gulch Rd. They discussed new bike lanes in the area of the Aptos Creek Rd intersection and the railroad crossing, green pavement treatments, and the need to remove parking close to the intersection and the railroad crossing. Committee members raised concerns about the removal of the existing bike lane on the north side of Soquel Dr between Aptos Creek Rd and Aptos Creek. Discussion touched upon loss of several parking spaces on Soquel Dr and in the 8017 Soquel Dr parking lot, pedestrians' ability to utilize said parking lot for travel, bicyclists' ability to use the proposed sidewalk, future need to widen the Soquel Dr bridge over Aptos Creek in order to allow for continuous bike lanes, and the improved safety of the railroad crossing.

A motion (Hyman/Voss) was made to request that the County use the existing County right-of-way to construct the proposed new sidewalk, rather than removing the existing bike lane. A friendly amendment (Fontes) was offered and accepted stating that if it is too costly or time-constrained to more fully address the private parking lot at 8017 Soquel Dr, which appears to encroach into the roadway right-of-way according to the County's engineering plans, the preference should be to defer construction of the sidewalk until that can be addressed. Further, if the County is

able to address the parking lot encroachment in time for planned construction in spring 2020, the Committee requests new plans be brought to the Committee. The amended motion passed with members Conlen, Voss, Scott, Kammer, Hyman, Moore, Fontes, and Jed voting in favor and Farrell voting against.

10. Rail Trail North Coast project update and review – Grace Blakeslee, RTC Sr. Transportation Planner, provided a general overview of the project and an update to the Committee on the timeline for the project, particularly progress since the certification of the EIR in early 2019. The next engineering plans will be the 75% plans expected in spring 2020. One of the changes to the plans is for the trail to be 12 feet paved with two 2-foot unpaved shoulders rather than 16 feet paved with one 4-foot unpaved shoulder. The RTC is pursuing grant funding for the second (northern) phase of the project. A public meeting is planned for the spring, particularly to update the public on a proposed pedestrian crossing of Highway 1 in Davenport. Staff clarified that there is planned to be a nighttime closure of the trail, specifics yet to be determined, and that there will be no lighting in the project. Committee members asked that project signage be consistent with MBSST signage policies, and requested that staff return to the Committee for design review in February 2020.
11. Competitive Regional Surface Transportation Program Exchange (RSTPX) funds review and recommend – Rachel Moriconi, RTC Sr. Transportation Planner, presented the staff recommendation for the competitive portion of RSTPX funds, and described details of the four applications that were received. In response to committee member questions, Gina Cole, Bike Santa Cruz County noted that the two proposed temporary separated bike lane projects are expected to be located on 17th Ave in Live Oak and Pennsylvania Dr in Watsonville. Piet Canin reported that Ecology Action will undertake outreach in Spanish for the Bike Challenge.

A motion (Kammer/Voss) was made to recommend that the RTC approve the project funding for Bike Santa Cruz County and Ecology Action projects as recommended in the staff report. The motion passed unanimously with members Conlen, Voss, Scott, Kammer, Hyman, Moore, Farrell, Fontes, and Jed voting in favor.

12. Regional Transportation Plan (RTP) 2045 Goals, Policies, and Targets input and discussion – Ginger Dykaar, RTC Sr. Transportation Planner, introduced the RTP process and presented the draft goals, policies, and targets for the Committee to discuss and provide their input. The RTP is required for certain funding sources and will be incorporated into the Monterey Bay region's Metropolitan Transportation Plan/Sustainable Communities Strategy. The RTP will identify transportation needs for the next 20-plus years for the county, and the next version will be finalized in 2022. This version of the RTP will be similar in design to the previous RTP 2040, continuing a focus on measuring targets rather than forecasting to the future, and it will incorporate some new requirements including policies on climate resilience, goods movement, dedicated transit facilities, and transit-oriented development. The Policies Element guides further development of the plan over the next few years. Committee members sought clarification on bikeway miles currently in the county, which are 27 miles of bike paths and 198 miles of each direction of bike lanes, while the amount of buffered or separated bike lanes is not currently tallied but uncommon. Members requested revision of Target 1Ai and Target 2A and revision or footnoting of Target 1Dii for clarity. Committee members requested aggressive targets for the year 2045 as follows:

- 85% or 100% of arterials and collectors should have bike facilities to Highway Design Manual minimum standard
- Finish the planned rail trail
- Increase the total length of bikeway miles by 36% by 2030 and 50% by 2045
- Reduce serious traffic injuries, in addition to traffic deaths, to zero by 2050

Members requested that staff communicate with an ad-hoc committee of Rick Hyman and Grace Voss on revisions to the goals, policies, and targets.

13. Regional Transportation Commission 2020 State and Federal Legislative Programs review and provide input - Rachel Moriconi, RTC Sr. Transportation Planner, introduced the preliminary draft of the RTC's legislative platform. She briefly discussed a few of the positions including increased funding overall, safety policies, local control, and transit funding. She requested that Committee members send her their input individually by January 6, 2020. Committee members requested she return in 2020 to provide a general overview of funding sources for transportation.
14. Rail Trail Segment 18 update – Murray Fontes, City of Watsonville staff, presented the first phase of the Segment 18 project. Committee members asked about the fence between the trail and the tracks, which will be 42 inches high, and requested space at the ground for animals to pass. He clarified that there will be no lighting and that the trail will be closed after dusk. The second phase of the project, completing the trail between Walker Street and Lee Road, will come two years after the first phase.

A motion (Hyman, Farrell) was made to approve the designs for phase 1 of the Segment 18 trail. The motion passed unanimously with members Conlen, Voss, Scott, Kammer, Hyman, Moore, Farrell, Fontes, and Jed voting in favor.

15. Watsonville Downtown Complete Streets Plan update – Murray Fontes, City of Watsonville staff, provided an update on the Downtown Complete Streets Plan, which includes Main Street (SR 152), Union Street, Brennan Street, and Rodriguez Street. As the scope of the project did not allow for right-of-way acquisition, alternatives to improve active transportation required trade-offs such as removing a travel lane or on-street parking. After extensive public input, recommendations include, among other improvements, a loss of travel lanes on Main Street, before the construction of which the city council has requested a study of the impact. Initial project short-term priorities include improved marked crosswalks. Committee members expressed appreciation for the work of the project team to achieve city council acceptance of complete streets improvements on Main Street. They also discussed the pros and cons of the city considering parking-buffered bike lanes, which may protect bicyclists from drivers coming from behind, but may introduce more conflict at driveways and intersections. Relatedly, members expressed an impression that a paint-buffered bike lane may have little use on Main Street, but a grade-separated cycle track adjacent to the sidewalk could attract more users.
16. Bike lane demarcation adjacent to parking in City of Santa Cruz – Rick Hyman, Committee member, discussed that he was under the impression that the City of Santa Cruz has expressed that they will mark the outside edge of all bike lanes when adjacent to parking so that parking is more likely not to encroach into bike lanes.

A motion (Fontes, Farrell) was made for a member of the Committee to present the matter to the RTC's Interagency Technical Advisory Committee for their consideration.

17. Update on Chanticleer Ave bike/ped crossing design review – Amelia Conlen, Committee chair, updated the Committee on the ad-hoc committee's meeting with RTC, design firm, and County staff for detailed discussion as a follow-up to the November Committee agenda item on the topic. She reported that the design firm and County staff appeared open to a marked "crossbike" as well as a possible two-way cycle track as discussed at the November meeting, if there is existing right-of-way to accommodate it.
18. Updates related to Committee functions – Amelia Conlen stated that an ad-hoc committee will meet with Capitola staff on December 18 to follow up on design input provided at the April Committee meeting.
19. Adjourn – 8:25 pm

NEXT MEETING: The next Bicycle Committee meeting is scheduled for February 10, 2020 from 6:00pm to 8:30pm at the RTC Office, 1523 Pacific Ave, Santa Cruz, Calif.

Minutes respectfully prepared and submitted by:
Tommy Travers, Transportation Planner

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Bicycles Hazard Reports

11/11/19 - 2/3/20

Date	Location	Cross Street	City	Reported Hazards	Additional Comments	Forwarded To	Forwarded Date	Response
01/30/20	100 Catalpa St	Water St	Santa Cruz	Bike: Debris on shoulder or bikeway	With any rain fall even extremely small amounts the crosswalk asks us floods and fills up with water this is a hazard for not only a cyclist but also pedestrians as one needs to walk around the crosswalk access and go out into the street to cross in the crosswalk please advise	Jim Burr, Claire Gallogly	01/30/20	
01/19/20	Coolidge Dr	N/A	Santa Cruz	Bike: Other	Hello, I've already written to the Chancellor at UCSC to see if something can be done about Coolidge drive, but have not heard anything back. The speed limit is 45mph and there is a legal passing lane, why!? This is a high bicycle traffic road and a fairly well used pedestrian area. I don't understand how Bay street can have a 30mph speed limit and the on-campus road has one 15 higher? It's an incredibly dangerous bicycle path, and it is only a matter of time before someone gets hit. At those speeds, I doubt the rider would survive. I ride this road every week day to get to class and I fear for my life every day. The great majority of the people speeding past me have only had their drivers licenses for a year or two.	DPW	01/21/20	1/21/20 Jana Vargas: We are in receipt of your concerns about the speed limit on Coolidge Drive. I will forward your request to our Traffic Division for review and response.
01/07/20	1025 Water St	Seabright Ave	Santa Cruz	Bike: Other	Please direct Highbro Toys not to place their advertising sign in the bike lane as this is illegal. I have passed by twice in recent days and the sign was blocking my travels in the bike lane.	Jim Burr, Claire Gallogly	01/07/20	Sent follow-up email on 2/4/20
12/27/19	Glen E Coolidge Memorial Bridge	Murray St	Santa Cruz	Bike: Rough pavement or potholes	Significant pavement bumps in both east and west bound bike travel lanes - consider grinding and/or repaving.	Jim Burr, Claire Gallogly	12/27/19	1/6/19 Jim Burr: With this email, this report is sent to the appropriate City crew for attention. Thank you for reporting.
12/27/19	McGregor Drive	New Brighton State Beach access road	Capitola	Bike: Rough pavement or potholes, Pavement cracks, Lack of sidewalk, Damaged sidewalk, Construction hazard	Pavement failure forcing bicycles into 45MPH travel lane and presenting severe bike/auto collision threat.	Steve Jesberg, Kailash Mozumder	12/27/19	Sent follow-up email on 2/4/20

Bicycles Hazard Reports
11/11/19 - 2/3/20

Date	Location	Cross Street	City	Reported Hazards	Additional Comments	Forwarded To	Forwarded Date	Response
12/27/19	McGregor Drive	New Brighton State Beach access road	Capitola	Bike: Rough pavement or potholes	Severe potholes and uneven pavement in northbound bike travel lane.	Steve Jesberg, Kailash Mozumder	12/27/19	Sent follow-up email on 2/4/20
12/27/19	E Cliff Dr	Prospect St	Twin Lakes	Bike: Plant overgrowth or interference	Height of hedge/vegetation along Schwan Lagoon presents line of sight danger.	DPW	12/27/19	12/27/19 Jana Vargas: Good afternoon Ryan, We are in receipt of your email concerning plant overgrowth on East Cliff Drive. I will forward your request to our Road Maintenance Department for review and response.
12/27/19	McGregor Drive	New Brighton State Beach access road	Capitola	Bike: Plant overgrowth or interference	Large Pampas grass obstructing entire northbound bike travel lane.	Steve Jesberg, Kailash Mozumder	12/27/19	Sent follow-up email on 2/4/20
12/22/19	200 Lockhart Gulch Rd	N/A	Scotts Valley	Bike: Rough pavement or potholes, Pavement cracks	0-200 block of Lockhart Gulch Rd, Scotts Valley, south side of street, many small potholes and cobbling where bicyclists ride, this is dangerous for bicyclists as tires could lodge in holes.	Trish McGrath, Frank Alvarez, Kimarie Jones	12/23/19	Sent follow-up email on 2/4/20
12/18/19	400 Carmel St	Lake Ave	Santa Cruz	Bike: Rough pavement or potholes, Pavement cracks	Rough pavement or potholes, Pavement cracks	Jim Burr, Claire Fleisler	12/18/19	Sent follow-up email on 2/4/20
12/16/19	714 Windsor St	Sumner St	Santa Cruz	Bike: JUMP electric bikes	JUMP bikes are frequently at this location. Can't JUMP contact the user?	Jump, Claire Fleisler	12/17/19	12/18/19 Jump Support: Hi, Thank you for providing that information. We've raised this issue to the Field Tech Service team. They should be at the vehicle shortly.

Bicycles Hazard Reports
11/11/19 - 2/3/20

Date	Location	Cross Street	City	Reported Hazards	Additional Comments	Forwarded To	Forwarded Date	Response
12/16/19	Capitola Rd	7th Ave	Live Oak	Bike: Plant overgrowth or interference	We had to duck under the extensive willow tree branches hanging over the entire sidewalk out to the street.	DPW	12/17/19	12/17/19 Jana Vargas: Good morning, We are in receipt of your email concerning the overgrowth of a tree on Capitola Road and 7th Avenue. I will forward your request to our Road Maintenance Department for review and response.
12/09/19	3800 Brommer St	38th Ave	Santa Cruz	Bike: Other	Low hanging branch	DPW	12/09/19	12/09/19 DPW Road Dispatch: SERVICE REQUEST ISSUED 19-002308 12/9/19 Dorothy Morgan: Good morning Jason, Thank you for the email about the bike hazard. There are two addresses listed, one on Brommer (which the County maintains) and one on Pacific (City). I am including our Road Maintenance Dispatch (831-477-3999) for the Brommer address. They will review and respond to you directly.
12/05/19	1411 Pine Flat Rd	N/A	Santa Cruz	Bike: Rough pavement or potholes, Debris on shoulder or bikeway	Major pot hole at address on bike way and major pile Of debris from recent storms. Blocking safe biking and also into roadway by 1411 pine flat rd, Santa Cruz , ca 95060	DPW	12/05/19	12/6/19 Jana Vargas: Good morning, We are in receipt of your email concerning a pothole and debris on Pine Flat Road. I will forward your request to our Road Maintenance Department for review and response.

Bicycles Hazard Reports
11/11/19 - 2/3/20

Date	Location	Cross Street	City	Reported Hazards	Additional Comments	Forwarded To	Forwarded Date	Response
11/20/19	1006 Water St	Benito Ave	Santa Cruz	Bike: Rough pavement or potholes, Plant overgrowth or interference, Debris on shoulder or bikeway, Bikeway not clearly marked, Vehicles or objects blocking sidewalk, Lack of sidewalk, Debris on sidewalk, No crosswalk or striping, Other	There is nothing bike-friendly or car-friendly about this street. Benito Street off Water is heavily trafficked, not marked, and is a designated "school corridor" and used every day by fire trucks, but has only one middle lane due to the over-flow parking by the auto shops (no signs or hour limits) which results in 18 to 20 cars and trucks are parked overnight every night. Most mornings, there are "deliveries of cars on trailers or by tow trucks during right during school drop off hours. The city is not able to this section of street (Benito ave) and the last time they cleaned it - it had to be shoveled. Please visit this part of midtown and see that it needs daytime only parking, regular street cleaning, and some fire lanes to keep clear for emergency vehicle movement in addition to bike lanes.	Jim Burr, Claire Fleisler	11/20/19	Sent follow-up email on 2/4/20

TO: SCCRTC Bicycle Advisory Committee

FROM: Tommy Travers, Transportation Planner

RE: County of Santa Cruz Article 8 Transportation Development Act Allocation Requests – Two Projects

RECOMMENDATION

Staff recommends that the Bicycle Advisory Committee recommend to the Regional Transportation Commission approval of the County of Santa Cruz's Article 8 Transportation Development Act allocation claims for Bike Lane Maintenance and for the Street Smarts Campaign.

BACKGROUND

Each year the Regional Transportation Commission allocates Article 8 Transportation Development Account (TDA) funds to local jurisdictions for bikeway and pedestrian projects. TDA funds allocated to a local jurisdiction may be rolled over from one fiscal year to the next. TDA claims with pedestrian components must be reviewed by Elderly & Disabled Transportation Advisory Committee and those with bicycle amenities must be reviewed by the Bicycle Advisory Committee (BAC) prior to approval by the Regional Transportation Commission.

DISCUSSION

The County of Santa Cruz submitted a letter ([Attachment 1](#)) and TDA Claims ([Attachment 2](#)) requesting a total of \$505,000 in new allocations to support the following projects.

- *Bike Lane Maintenance:* A claim for FY 2017/18 funds in the amount of \$150,000, FY 2018/19 funds in the amount of \$150,000, and FY 2019/20 funds in the amount of \$175,000 to support maintenance of bike lanes throughout the unincorporated County. The project will include restriping, signs, minor repairs, vegetation, and sweeping the bike lanes on arterial roads to maintain safe conditions. The BAC has approved funds for Bike Lane Maintenance in the past.
- *Street Smarts/Vision Zero Campaign:* A claim for FY 2017/18 funds in the amount of \$11,849.74 and FY 2018/19 funds in the amount of \$18,150.26 for the second year of the countywide Street Smarts Campaign, led by the City of Santa Cruz. This is a new request from the County. The project is a public education effort aiming to improve the traffic safety behavior of drivers, bicyclists, and pedestrians and therefore reduce the number of traffic-related crashes. Pedestrian and bicycling related portions of this safety education are eligible to receive TDA funding.

Staff recommends that the Bicycle Advisory Committee recommend that the Regional Transportation Commission approve the County of Santa Cruz's allocation TDA claim request in the amount of \$505,000 for Bike Lane Maintenance and for the

Street Smarts Campaign. The projects are consistent with the RTC's Regional Transportation Plan.

SUMMARY

The County of Santa Cruz is requesting TDA Article 8 allocations for Bike Lane Maintenance (\$475,000) and the Street Smarts Campaign (\$30,000) Staff recommends that the Committee recommends that the Regional Transportation Commission approve the County of Santa Cruz's allocation request.

Attachments:

1. County of Santa Cruz Article 8 TDA Allocation Request Letter
2. TDA Claim Forms

Attachment 1



County of Santa Cruz

DEPARTMENT OF PUBLIC WORKS

701 OCEAN STREET, ROOM 410, SANTA CRUZ, CA 95060-4070
(831) 454-2160 FAX (831) 454-2385 TDD (831) 454-2123

MATT MACHADO
DEPUTY CAO
DIRECTOR OF PUBLIC WORKS

January 8, 2020

GUY PRESTON, EXECUTIVE DIRECTOR
Santa Cruz County Regional Transportation Commission
1523 Pacific Avenue
Santa Cruz, CA 95060

SUBJECT: TRANSPORTATION DEVELOPMENT ACT ARTICLE 8 PROJECT
ALLOCATION CLAIMS

Dear Mr. Preston:

The County of Santa Cruz Department of Public Works submits the four enclosed Transportation Development Act (TDA) Article 8 allocation claims for the three fiscal years 2017/2018, 2018/2019 and 2019/2020, and a reallocation of partial 2007/2008 funds. The TDA funds available for **FY 2017/2018** equal **\$202,168**, for **FY 2018/2019** equal **\$168,150.26**, and **FY 2014/2015** equal **\$175,000** and the amount of TDA funds requested for reallocation for **FY2007/2008** equal **\$90,683**. One claim is to continue funding bike lane maintenance; second claim is for the Boulder Creek Elementary School Pedestrian Safety project; the third claim is for the Street Smarts Zero Campaign. One of the project claims is to request reallocation of previously allocated funds from the Green Valley Pedestrian Improvement project to the Pinehurst Drive and Greenbrier Drive Pedestrian Improvement project.

BIKE LANE MAINTENANCE

An allocation claim for **\$150,000** each fiscal year for **FY 2017/2018** and **FY 2018/2019**, plus **FY 2019/2020** funds of **\$175,000** for a total three year amount of **\$475,000**, is requested for bike lane maintenance of County roads. Basic road maintenance funding continues to be scarce and TDA funds have been used for this program in years past. The funding will allow County crews and contractors to re-stripe, sign, conduct minor repairs, trim brush and trees, and sweep the bike lanes which are located on major arterial roads in the unincorporated area of the County. Bike lane maintenance is critical to supporting traffic safety on County roads.

BOULDER CREEK ELEMENTARY SCHOOL PEDESTRIAN SAFETY

An allocation claim for **FY 2017/2018** funds in the amount of **\$40,318.26** is requested for the Boulder Creek Elementary School Pedestrian Safety project. These TDA funds will be used to close out the construction project that provides pedestrian walkways on two local roads adjacent to and connecting to Boulder Creek Elementary School.

STREET SMARTS/VISION ZERO CAMPAIGN

An allocation claim for **FY 2017/2018 and FY 2018/2019** funds in the combined total amount of **\$30,000** is requested for the Street Smarts Campaign (**FY 2017/2018 = \$11,849.74 and FY 2018/2019 = \$18,150.26**). These TDA funds will be used for public education related to traffic safety. The Street Smarts traffic safety campaign is a public education effort by the City of Santa Cruz and is now expanded in partnership with the County of Santa Cruz, the Santa Cruz County Office of Education and the cities of Watsonville, Scotts Valley, Capitola and Monterey.

PINEHURST DRIVE AND GREENBRIER DRIVE PEDESTRIAN IMPROVEMENT

An allocation claim for a previously approved **FY 2007/2008** allocation claim for the Green Valley Pedestrian Improvement project is requested for the Pinehurst Drive and Greenbrier Drive Pedestrian Improvement project. The TDA allocation for Green Valley Pedestrian Improvement project totaled \$90,683. The County requests reallocation of these funds to the Pinehurst Drive and Greenbrier Drive Pedestrian Improvement project which will improve pedestrian safety near the Rio Del Mar Elementary School by filling in a sidewalk gap and providing a curb extension and crosswalk realignment to reduce the pedestrian crossing distance across Pinehurst Drive.

The County Board of Supervisors has adopted the attached resolution consistent with the above requested TDA allocations for these projects.

The Department of Public Works thanks you for accepting our request for allocations of TDA funding. The preferred method of disbursement is by means of County journal (AUD48) whereby the TDA Article 8 funds should be journaled to Budget GL 621220, object 1582. Please contact Russell Chen, Senior Civil Engineer at (831) 454-2149 if you have any questions or require additional information.

Yours truly,



MATT MACHADO
Deputy CAO
Director of Public Works

RC:jv

Enclosures/Attachment

TDA Claim_Preston.doc

Attachment 2

Transportation Development Act (TDA) – Local Transportation Funds CLAIM FORM for Bike/Ped Projects

Project Information

1. Project Title: Bike Lane Maintenance
2. Implementing Agency: County of Santa Cruz
3. Sponsoring Agency (if different) – must be a TDA Eligible Claimant:
4. TDA funding requested this claim: \$150,000 + \$150,000 + \$175,000 = \$475,000
5. Fiscal Year (FY) for which funds are claimed: FY 2017/2018, FY 2018/2019 and FY 2019/2020
6. General purpose for which the claim is made, identified by the article and section of the Act which authorizes such claims: ☒ **Article 8 Bicycle and/or Pedestrian Facility**
7. Contact Person/Project Manager: Russell Chen, Senior Civil Engineer
Telephone Number: (831) 454-2160 E-mail: Russell.Chen@santacruzcounty.us

Secondary Contact (in event primary not available): Steve Wiesner, Assistant Director
Telephone Number: (831) 454-2160 E-mail: Steve.Wiesner@santacruzcounty.us
8. Project/Program Description/Scope (use additional pages, if needed, to provide details such as work elements/tasks): As in previous years these funds will be utilized by County maintenance crews and contractors to sign, re-stripe, repair, make minor improvements, and sweep bike lanes, bike routes, and bike paths maintained by the County of Santa Cruz Department of Public Works.
9. Number of people to be served/anticipated number of users of project/program:
Estimated County population in 2017 = 274,146 people. Estimated bike riders: 4% of population = 10,966 bicyclists. Bike riders consist of commuters, students, and recreational users. These are considered direct users to be served. However, to a certain extent, all motorists sharing the roads with bike lane users are being served with enhanced traffic safety measures.
10. Project Location/Limits (attach a map and/or photos if available/applicable, include street names):
See attached list of bike lane miles on County maintained roads. Bike lanes are generally located on major arterial roads throughout the County, with most bike lanes located within the urbanized areas of Aptos, Live Oak, Pajaro Valley, and Soquel.
11. Justification for the project. (Why is this project needed? Primary goal/purpose of the project; problem to be addressed; project benefits; importance to the community): Traffic safety is the main goal. It is anticipated that more people will ride bikes due to either a preferred life style and/or economic difficulties experienced in this area. The maintenance of roadways has been significantly reduced due to the recent economic difficulties, and the use of TDA funds to maintain these bike facilities is very critical to maintaining traffic safety.

12. Consistency and relationship with the Regional Transportation Plan (RTP) – please reference Project or Policy number:
 Policy 1.3 – Transportation Infrastructure: Improve multimodal access to and within key destinations.
 Policy 1.4 – Transportation infrastructure: Ensure network connectivity by closing gaps in the bicycle, pedestrian and transit networks.
 Policy 3.1 – Cost Effectiveness & System Maintenance: Maintain and operate the existing transportation system cost-effectively and in a manner that adapts the current transportation system to maximize existing investments.
13. Measures of performance, success or completion to be used to evaluate project/program:
 Not applicable – on going maintenance of existing facilities.
14. Impact(s) of project on other modes of travel, if any (ex. parking to be removed):
 Not applicable – on going maintenance of existing facilities.
15. Project Cost/Budget, including other funding sources, and Schedule: The Santa Cruz County Board of Supervisors adopted the attached resolution for the TDA project funding.

Project Start Date: July 1, 2017, on-going bike lane maintenance

	Planning	Environ- mental	Design/ Engineering	ROW	Construction	Other *	Contingency	Total
SCHEDULE (Month/Yr) Completion Date 6/30/20					7/1/2017 thru 6/30/2020			
Total Cost/Phase					\$475,000			\$475,000
\$TDA requested					\$475,000			\$475,000
Source 2: Prior TDA								
Source 3:								
Source 4:								

**Please describe what is included in "Other":*

16. Preferred Method and Schedule for TDA fund distribution, consistent with the RTC Rules and Regulations (a. 90% prior to completion/10% upon completion; or b. 100% after completion):
 Preferred method for TDA fund distribution is: a. 90% prior to completion/10% upon completion.

17. TDA Eligibility:

	YES?/NO?
A. Has the project/program been approved by the claimant's governing body? Attach resolution to claim. (If "NO," provide the approximate date approval is anticipated.)	Yes
B. Has this project previously received TDA funding?	Yes
C. For capital projects, have provisions been made by the claimant to maintain the project or facility, or has the claimant arranged for such maintenance by another agency for the next 20 years?	N/A
D. Has the project already been reviewed by the RTC Bicycle Committee and/or Elderly/Disabled Transportation Advisory Committee? (If "NO," project will be reviewed prior to RTC approval).	No
E. For "bikeways," does the project meet Caltrans minimum safety design criteria pursuant to Chapter 1000 of the California Highway Design Manual? (Available on the internet via: http://www.dot.ca.gov).	Yes

Documentation to Include with Your Claim:

All Claims

- ☐ A letter of transmittal addressed to the SCCRTC Executive Director that attests to the accuracy of the claim and all its accompanying documentation.
- ☐ Resolution from the TDA Eligible Claimant indicating its role and responsibilities.

Article 8 Bicycle/Pedestrian Claims

- ☐ Evidence of environmental review for capital projects

Local Agency Certification:

This TDA Claim has been prepared in accordance with the SCCRTC's Budget, SCCRTC's Rules and Regulations, and Caltrans TDA Guidebook (<http://www.dot.ca.gov/hq/MassTrans/State-TDA.html>). I certify that the information provided in this form is accurate and correct. I understand that if the required information has not been provided this form may be returned and the funding allocation may be delayed.

Signature:  Title: DIRECTOR Date: 1/7/20

**Transportation Development Act (TDA) – Local Transportation Funds
CLAIM FORM
for Bike/Ped Projects**

Project Information

1. Project Title: Street Smarts/Vision Zero Campaign
2. Implementing Agency: City of Santa Cruz
3. Sponsoring Agency (if different) – must be a TDA Eligible Claimant: County of Santa Cruz
4. TDA funding requested this claim: \$30,000
5. Fiscal Year (FY) for which funds are claimed: FY 2017/2018 \$11,849.74 and FY 2018/2019 \$18,150.26.
6. General purpose for which the claim is made, identified by the article and section of the Act which authorizes such claims: ☒ **Article 8 Bicycle and/or Pedestrian Facility**
7. Contact Person/Project Manager: Russell Chen, Senior Civil Engineer
Telephone Number: 831 454-2160 E-mail: Russell.Chen@santacruzcounty.us

Secondary Contact (in event primary not available): Steve Wiesner, Assistant Director
Telephone Number: 831 454-2160 E-mail: Steve.Wiesner@santacruzcounty.us
8. Project/Program Description/Scope (use additional pages, if needed, to provide details such as work elements/tasks):
The Street Smarts/Vision Zero Campaign's mission is to reduce the number of traffic-related crashes and injuries throughout the County of Santa Cruz and City of Monterey. The Street Smarts traffic safety campaign is a public education effort by the City of Santa Cruz and is now expanded in partnership with the County of Santa Cruz, The Santa Cruz County Office of Education and the cities of Watsonville, Scotts Valley, Capitola and Monterey. The campaign is designed for drivers, bicyclists and pedestrians, and intends to improve the behavior of all three groups. The prime collaborative strategy to change and improve our community's traffic safety behavior is repetition of traffic safety media messages: Street Smarts' bilingual public service announcements can be heard on KAZU, KSCO, KZSC, KLOK and KSES radio stations, read in print publications, and seen and heard online. Messages are also visible on street poles, in front of schools, on City vehicles and yard signs.
9. Number of people to be served/anticipated number of users of project/program:
Santa Cruz County including the cities of Santa Cruz, Watsonville, Scotts Valley and Capitola has a population of 274,146. The City of Monterey has a population 27,810. The entire population of Santa Cruz County and the City of Monterey is served by this program because it is designed for multi-modes of transportation that has benefits to all users of the transportation infrastructure.
10. Project Location/Limits (attach a map and/or photos if available/applicable, include street names):
The Street Smarts campaign is intended to reach out to the areas of the County of Santa Cruz and City of Monterey; however, the campaign may reach out to other areas with public service announcements on radio stations.
11. Justification for the project. (Why is this project needed? Primary goal/purpose of the project; problem to be addressed; project benefits; importance to the community):
In 2017, the National Highway Traffic Safety Administration reports that 37,133 people in motor vehicles, 783 bicyclists and 5,977 pedestrians died in motor vehicle crashes nationwide. Road traffic

today is inherently dangerous. Consequently, in road traffic it is us humans who make the difference between hazard and safety. Road traffic relies more heavily on its users to keep accidents from occurring compared to other modes of transportation such as railway and air traffic. Street Smarts is a road safety campaign that is used as a means of influencing the public to behave more safely in traffic.

12. Consistency and relationship with the 2040 Regional Transportation Plan (RTP) – please reference Project or Policy number:
Policy 2.1 Safety: Prioritize funding for safety projects and programs that will reduce fatal or injury collisions.
13. Measures of performance, success or completion to be used to evaluate project/program:
No evaluation for public service campaign.
14. Impact(s) of project on other modes of travel, if any (ex. parking to be removed):
Street Smarts campaign is designed for drivers, bicyclists and pedestrians.
15. Project Cost/Budget, including other funding sources, and Schedule:
The City of Santa Cruz started their Streets Smarts campaign approximately two years ago and is now expanding in partnership with the County of Santa Cruz, the Santa Cruz County Office of Education and the cities of Watsonville, Scotts Valley, Capitola and Monterey. The County of Santa Cruz will provide \$30,000 to the City of Santa Cruz to help fund the Street Smarts campaign

Capital Projects –

Project Start Date: ____

	Planning	Environmental	Design/Engineering	ROW	Construction	Other*	Contingency	Total
SCHEDULE (Month/Yr) Completion Date						06/20		
Total Cost/Phase						\$30,000		\$30,000
\$TDA requested						\$30,000		\$30,000
Source 2:								
Source 3: Previous								
Source 4:								

**Please describe what is included in "Other": Non-infrastructure safety program*

16. Preferred Method and Schedule for TDA fund distribution, consistent with the RTC Rules and Regulations (a. 90% prior to completion/10% upon completion; or b. 100% after completion):
Preferred method for TDA fund distribution is: a. 90% prior to completion/10% upon completion.

17. TDA Eligibility:

	YES?/NO?
A. Has the project/program been approved by the claimant's governing body? Attach resolution to claim. (If "NO," provide the approximate date approval is anticipated.)	Yes
B. Has this project previously received TDA funding?	No
C. For capital projects, have provisions been made by the claimant to maintain the project or facility, or has the claimant arranged for such maintenance by another agency for the next 20 years?	N/A
D. Has the project already been reviewed by the RTC Bicycle Committee and/or Elderly/Disabled Transportation Advisory Committee? (If "NO," project will be reviewed prior to RTC approval).	No
E. For "bikeways," does the project meet Caltrans minimum safety design criteria pursuant to Chapter 1000 of the California Highway Design Manual? (Available on the internet via: http://www.dot.ca.gov).	N/A

Documentation to Include with Your Claim:**All Claims**

- ☐ A **letter of transmittal** addressed to the SCCRTC Executive Director that attests to the accuracy of the claim and all its accompanying documentation.
- ☐ **Resolution from the TDA Eligible Claimant** indicating its role and responsibilities.

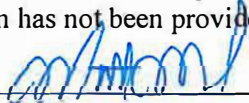
Article 8 Bicycle/Pedestrian Claims

- ☐ Evidence of environmental review for capital projects

Local Agency Certification:

This TDA Claim has been prepared in accordance with the SCCRTC's Budget, SCCRTC's Rules and Regulations, and Caltrans TDA Guidebook (<http://www.dot.ca.gov/hq/MassTrans/State-TDA.html>). I certify that the information provided in this form is accurate and correct. I understand that if the required information has not been provided this form may be returned and the funding allocation may be delayed.

Signature



Title:

DIRECTOR

Date:

1/7/20



SANTA CRUZ COUNTY REGIONAL TRANSPORTATION COMMISSION

1523 Pacific Ave., Santa Cruz, CA 95060-3911 • (831) 460-3200 FAX (831) 460-3215 EMAIL info@sccrtc.org

December 12, 2019

Matt Machado
County of Santa Cruz
Director of Public Works
701 Ocean Street, Room 410
Santa Cruz, CA 95060

Dear Mr. Machado:

The Bicycle Advisory Committee of the Regional Transportation Commission (RTC) appreciates the recent presentation from County Public Works staff regarding the Aptos Village Improvements Project Phase 2B, which includes RTC-approved funds from the Regional Surface Transportation Program Exchange.

The Committee is very appreciative of the planned improvements to enhance bike lane visibility and to upgrade the railroad crossing at Aptos Creek Road.

The Committee is concerned with the proposed removal of the bike lane on westbound Soquel Drive between Aptos Creek Road and the Soquel Drive bridge over Aptos Creek. Even though bicyclists currently must merge into the vehicle lane at the bridge, it would still be preferred not to lose the bike lane before that merge is necessary. Soquel Drive is an important regional bicycle route, on which the RTC proposes buffered or separated bike lanes as part of the Unified Corridor Study recommendations to improve bicycle transportation mode share in Santa Cruz County.

A majority of the Committee requests that the County consider using the existing roadway right-of-way to construct the proposed new sidewalk, rather than removing the existing bike lane. If it is too costly or time-constrained to address the private parking lot, which appears to encroach into the roadway right-of-way, the Committee's preference is to defer construction of the sidewalk until that can be addressed. Please look for other opportunities to improve access for bicyclists and pedestrians in this area, such as widening the bridge over Aptos Creek and constructing Segment 12 of the Coastal Rail Trail.

Thank you for considering our request and for your commitment to increasing the use of bicycles for transportation.

Sincerely,

Amelia Conlen
Chair, Bicycle Advisory Committee

cc:

Tim Nguyen, County of Santa Cruz Public Works, Civil Engineer and Project Manager
Russell Chen, County of Santa Cruz Public Works, Senior Civil Engineer
Santa Cruz County Regional Transportation Commission
Santa Cruz County Regional Transportation Commission's Bicycle Committee

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AGENDA: February 2020

TO: Regional Transportation Commission Advisory Committees

FROM: Ginger Dykaar and Brianna Goodman, Transportation Planners

RE: Transit Corridor Alternatives Analysis – Goals/Screening Criteria/Performance Measures, and Initial List of Alternatives

RECOMMENDATIONS

Staff recommends that the Regional Transportation Commission Advisory Committee review and provide input on the goals/screening criteria/performance measures and initial list of alternatives for the Transit Corridor Alternatives Analysis of high-capacity public transit for the Santa Cruz Branch Rail Line.

BACKGROUND

The Santa Cruz County Regional Transportation Commission (RTC) in cooperation with METRO is developing the Transit Corridor Alternatives Analysis (TCAA) to evaluate transit investment options that provide an integrated transit network for Santa Cruz County utilizing all or part of the length of the Santa Cruz Branch Rail Line as a dedicated transit facility. The TCAA Fact Sheet can be found in Attachment 1.

A performance-based planning approach based on a triple bottom line sustainability framework will be utilized to assess various public transit options for the rail right of way. Transit alternatives will be compared to define a viable project that will provide the greatest benefit to the Santa Cruz County residents, businesses and visitors in terms of equity, environment, and economy. Proposed future intercounty and interregional connections to the Bay Area, Monterey, Gilroy and beyond will be considered.

DISCUSSION

The Transit Corridor Alternatives Analysis is underway. An Alternatives Analysis Ad Hoc Committee, composed of 6 members of the RTC, was formed to represent both RTC and METRO in developing the Transit Corridor Alternatives Analysis (TCAA). This Ad Hoc Committee will provide input to the TCAA project team at each key milestone. A contract with HDR Engineering Inc has been executed to assist RTC and Metro in the development of the Transit Corridor Alternatives Analysis. A TCAA Communications and Stakeholder Involvement Plan was developed by the project team and approved at the Jan. 16, 2020 RTC meeting.

There are three key technical milestones where there will be outreach to stakeholders to ensure awareness, education, and input is sought at the right time

in the process. The TCAA will utilize the triple bottom line goals of economy, equity, and environment to evaluate high capacity public transit on the rail right of way.

Key Milestones for stakeholder engagement are as follows:

1. Goals/Screening Criteria/Performance Measures & Initial List of Alternatives

Purpose: Important to seek input and obtain buy-in and understanding of screening criteria and performance measures early so that as alternatives are narrowed down, the stakeholders understand why. Gather input on initial list of transit alternatives to be considered.

2. Screened Alternatives

Purpose: Explain screening process and results that lead to short list of transit alternatives. Gather input on short list of transit alternatives to be considered.

3. Performance Analysis Results and Locally Preferred Alternative

Purpose: Explain performance measure results on short list of alternatives and seek input on locally preferred alternative.

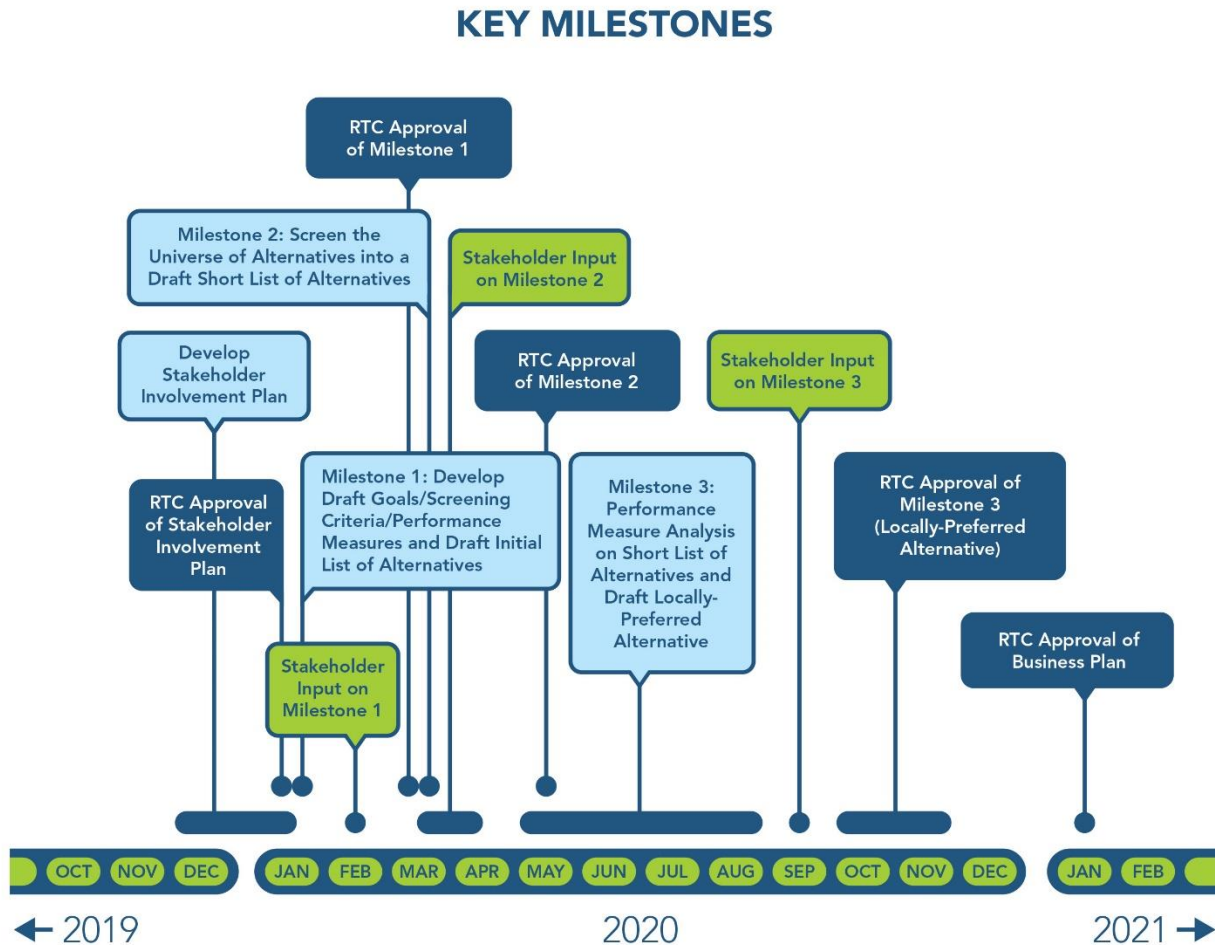
The Transit Corridor Alternatives Analysis project team composed of RTC and METRO staff and HDR consultants seek input from the RTC Advisory Committees on the draft goals, screening criteria, performance measures (Attachment 2) and Initial Universe of Alternatives to be considered (Attachment 3). Input has already been provided by the Ad Hoc Committee. Input will also be sought on Milestone 1 from the public, community organizations, and partner agencies, during the month of February prior to seeking input and approval from the RTC at the March 5, 2020 commission meeting.

Milestone 1 Stakeholder Engagement

HDR Engineering Inc. and the RTC/Metro staff teams will bring the TCAA Milestone 1 - evaluation framework and the initial universe of alternatives - to stakeholders for their input on the following schedule:

- February 4, 2020: Partner Agency Meeting
- February 5, 2020: Community Organization Focus Groups - Live Oak and Watsonville
- February 2020: RTC Advisory Committees
- February 11, 2020: Public Open House at the Live Oak Grange, 6pm – 7:30pm
- February 12, 2020: Public Open House at the Watsonville Library Community Room, 6pm – 7:30pm

A timeline for the project can be found below.



SUMMARY

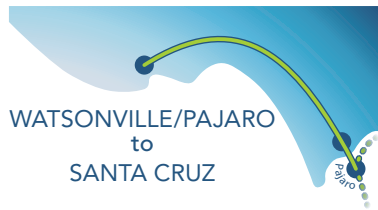
The Transit Corridor Alternatives Analysis is using a triple bottom line framework for evaluating transit investment options that provide an integrated transit network for Santa Cruz County utilizing all or part of the length of the Santa Cruz Branch Rail Line as a dedicated transit facility. The TCAA team requests the RTC Advisory Committees input on Milestone 1 - the analysis framework (goals, screening criteria, and performance measures) as well as the initial list of transit alternatives for consideration.

Attachments:

1. TCAA Fact Sheet
2. TCAA Analysis Framework: Goals/screening criteria/performance measures
3. TCAA Initial Universe of Alternatives

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TRANSIT CORRIDOR ALTERNATIVES ANALYSIS



FACT SHEET

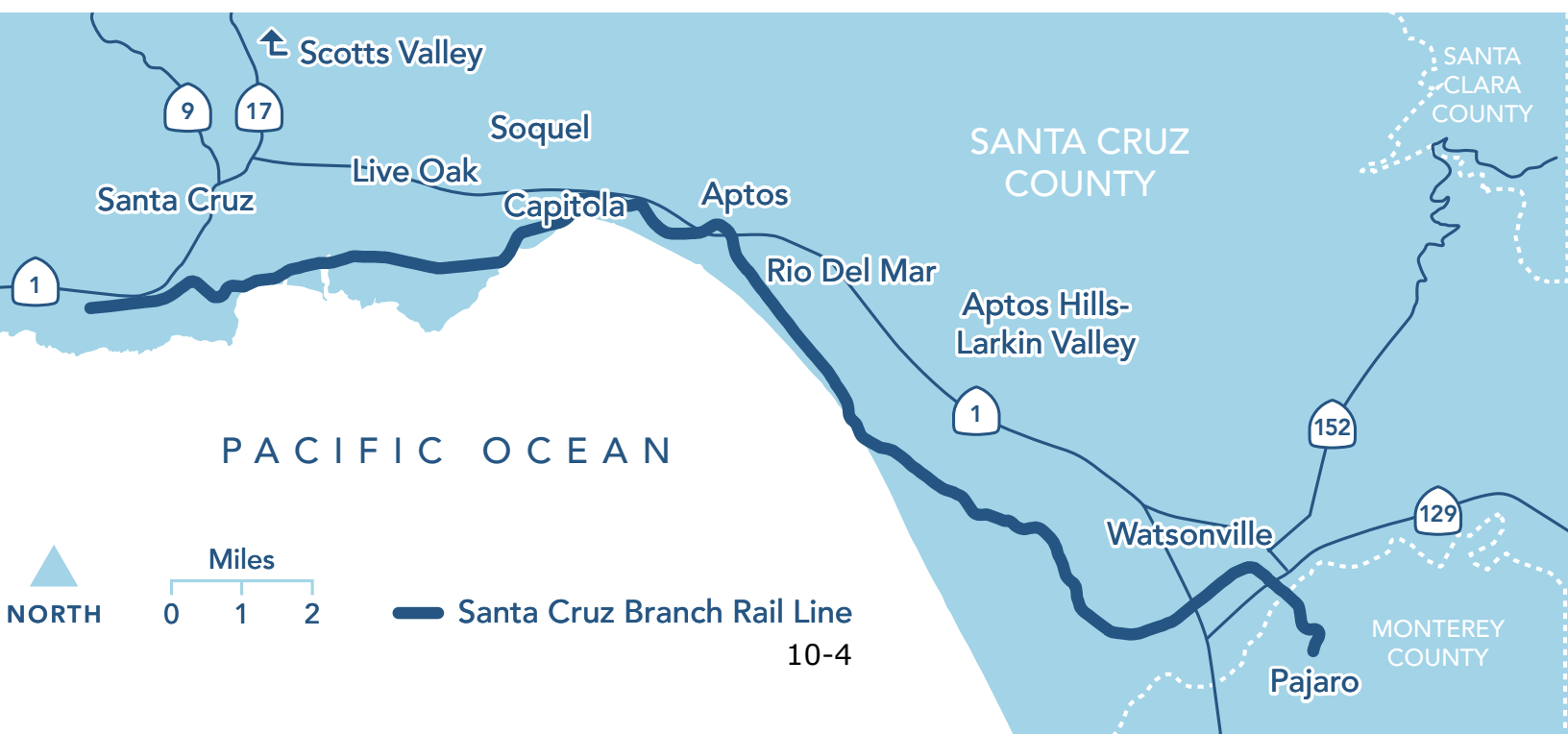
FEBRUARY 2020

TRANSIT CORRIDOR ALTERNATIVES ANALYSIS

In late 2019, the Santa Cruz County Regional Transportation Commission (RTC), in partnership with Santa Cruz Metropolitan Transit District (METRO), initiated the next phase of planning for a transit corridor along the existing rail right-of-way that will provide additional travel options, and enhanced access and connectivity for residents, businesses and visitors. One of the outcomes of the Unified Corridor Investment Study, completed in January 2019, was to reserve the Santa Cruz Branch Rail Line (SCBRL) for high-capacity public transit adjacent to a bicycle and pedestrian trail.

The Transit Corridor Alternatives Analysis (TCAA) will evaluate public transit investment options that

provide an integrated transit network for Santa Cruz County utilizing all or part of the length of the rail right-of-way as a dedicated transit facility. A performance-based planning approach based on a triple bottom line sustainability framework will be utilized to assess various public transit options for the rail right-of-way. Transit alternatives will be compared to define a locally-preferred alternative that offers the greatest benefit to Santa Cruz County in terms of equity, environment, and economy. Proposed future intercounty and interregional connections to Monterey, Gilroy, the San Francisco Bay Area and beyond will be considered.

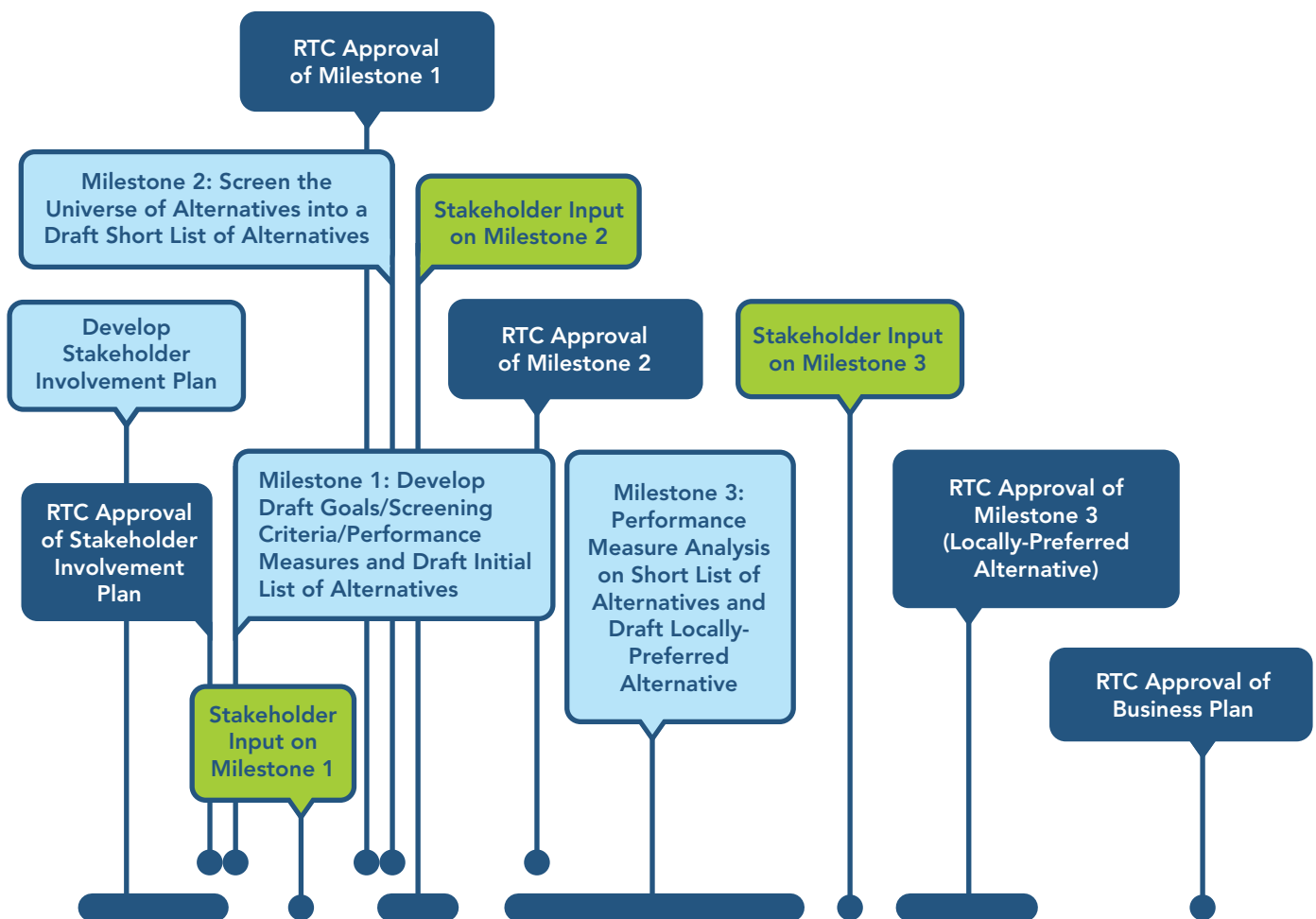


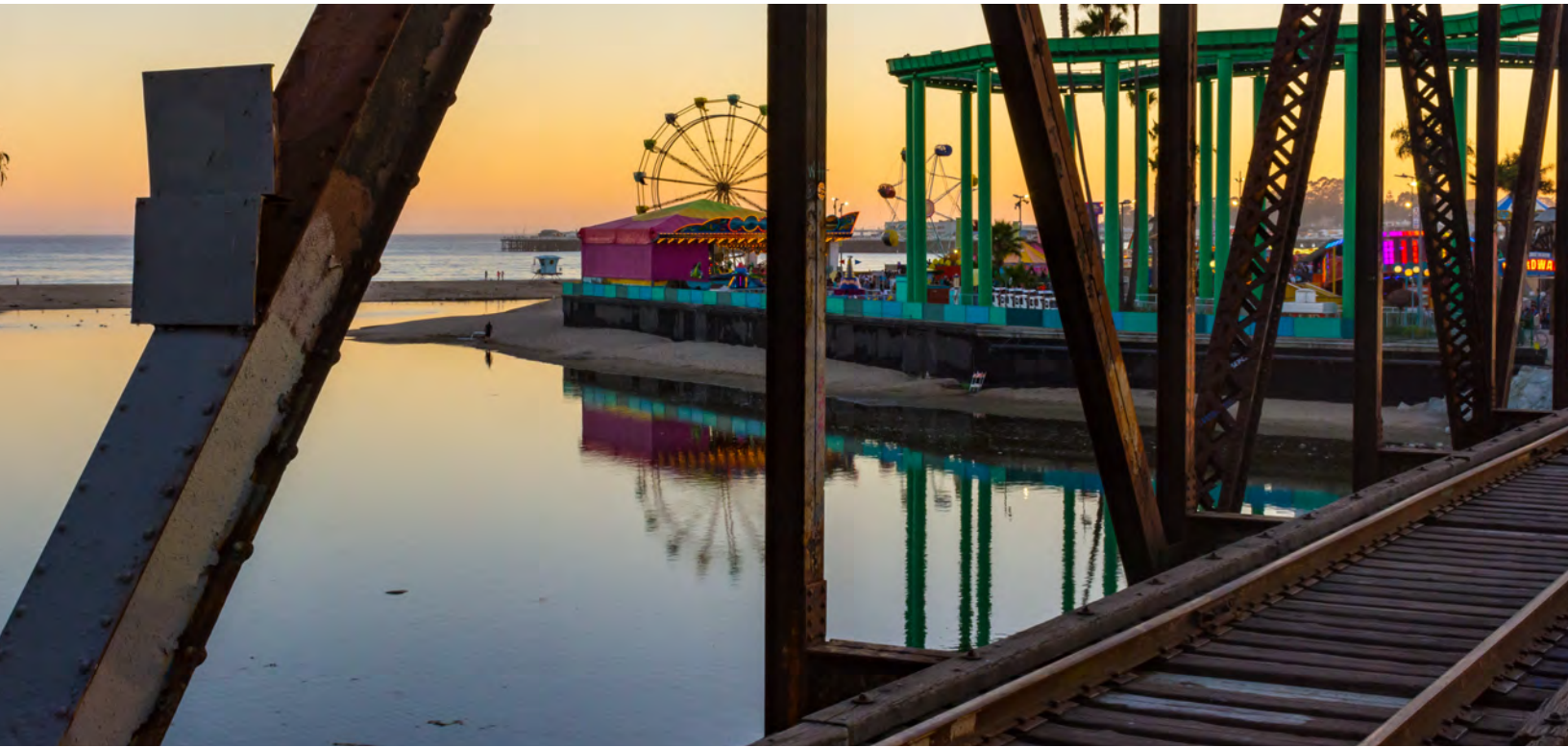
ALTERNATIVES ANALYSIS PROCESS

During the TCAA planning process, project goals, screening criteria and performance measures will be established to screen and then evaluate the performance of each potential alternative quantitatively. Potential transit alternatives will consider mode types such as rail, bus and other innovative services. Potential connector services will also be evaluated. The analysis will identify potential infrastructure, vehicle type and right-of-way needs as well as other potential transit features.

Agency partners, local and regional stakeholders and the general public will have the opportunity to provide valuable input into the alternatives and evaluation criteria to aid in narrowing down to a feasible transit solution. The ultimate goal of the TCAA is to identify one locally-preferred transit alternative that meets the needs of the diverse community for which it will serve.

KEY MILESTONES

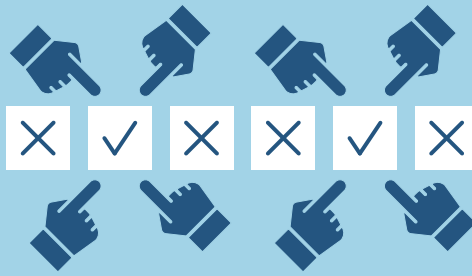




TCAA HIGHLIGHTS



Rail right-of-way passes within one mile of half of the county's population and can provide access to 44 schools and 92 parks.



Involves the community, partner agencies, RTC and METRO in the decision-making process to identify a preferred alternative and next steps.



Develops a strategic business plan for the selected alternative, including a cash flow analysis of environmental clearance, right-of-way, design, construction, operations and maintenance.



Rail Network Integration Study funded by Caltrans will be performed as part of the Alternatives Analysis.



Utilizes a performance-based planning approach with a triple bottom line framework of equity, environment and economy.



STAY INFORMED

RTC and our METRO partner are committed to engaging the public and regional stakeholders throughout the TCAA process. The outreach program will include multiple opportunities to share information, listen and address concerns as well as seek valuable input to help identify a preferred

transit alternative to serve and connect our communities. To stay informed, visit the project website to be added to the contact list. New information will be distributed electronically through the website, social media and email blasts along with in-person distribution at meetings.



WEBSITE

sccrtc.org/transitcorridoraa



PHONE

831.460.3200



E-MAIL

transitcorridoraa@sccrtc.org



E-SUBSCRIPTIONS

sccrtc.org/about/esubscriptions



INSTAGRAM

@sccrtc



FACEBOOK

@sccrtc



TWITTER

@santacruzrtc



TRANSIT CORRIDOR ALTERNATIVES ANALYSIS

ANALYSIS FRAMEWORK

The Transit Corridor Alternatives Analysis: Watsonville/Pajaro to Santa Cruz (TCAA), will use a triple-bottom line, performance-based planning approach for evaluating future investment decisions. The Triple Bottom Line Approach is a consistent analysis tool applied by the Santa Cruz County Regional Transportation Commission to identify and prioritize transportation policies, programs, and projects in the County. An alternatives analysis will be performed to examine the performance of various transit options for the rail right of way and how well they advance the goals of the project. The following describes the analysis framework designed to evaluate the performance benefits of the alternatives in this planning process. The TCAA will identify a locally preferred alternative that best meets the Economic, Environmental, and Social Equity needs of the County.

Triple Bottom Line Approach to Alternatives Analysis



This Analysis Framework will build from the Triple Bottom Line goals of Economy, Environment, and Social Equity. A two phase approach will be used as described:

1. Phase 1. Initial high-level screening using the screening criteria to winnow the universe of alternatives to a smaller set of alternatives for detailed analysis
2. Phase 2. More detailed and data-driven alternatives analysis using the performance measures, designed to differentiate performance benefits between the smaller set of alternatives and to support the identification of the locally preferred alternative.

The following tables present the proposed Economic, Environmental, Social Equity, and Other Goals that supports the Triple Bottom Line Approach, with descriptions of supporting Evaluation Metrics, Phase 1 Screening Criteria and Phase 2 Performance Measures.

SUPPORTS ECONOMY

Goals	Evaluation Metric	Description	Phase 1 Screening	Phase 2 Performance Measure
Is fiscally feasible	Capital cost	How does the capital cost compare to other projects?	High, Medium, Low	Capital Cost
	O&M costs	Is the project relatively more expensive to maintain and operate?	High, Medium, Low	O&M Costs Cost/Rider
	Funding	How much funding will likely be available?	High, Medium, Low	% funding likely from existing sources
Results in a well-integrated transportation system that supports economic vitality	Tax revenue	Does the project generate new tax revenues?	High, Medium, Low	High, Medium, Low
	Jobs	Will the project support job growth – near term through construction, longer term through O&M activity and economic development?	High, Medium, Low	High, Medium, Low
	Freight	What is the impact on freight rail operators and shippers?	High, Medium, Low	Freight Rail Volume
	Contiguous transportation corridor	What is the level of risk that the corridor will remain contiguous?	High, Medium, Low	Risk Level

SUPPORTS EQUITY

Goals	Evaluation Metric	Description	Phase 1 Screening	Phase 2 Performance Measure
Promote active Transportation	Active Transportation	Does the project include features that support active transportation and promotes health?	High, Medium, Low	-Bicycle capacity on transit/day -Effects on Rail Trail
Support safer transportation for all	Safety	Does the project support public safety?	High, Medium, Low	Collisions by mode
Provide accessible and equitable transportation system that is responsive to the needs of all users	Access	Does the project provide transportation access to disadvantaged populations?	High, Medium, Low	-Location relative to disadvantaged populations -Transit vehicle miles traveled
Offer reliable and efficient transportation choices that serve the most people	Travel Time	Does the project improve transportation travel time?	High, Medium, Low	-Transit travel time -Auto travel time -Impacts at grade crossings -Regional connectivity
	Reliability	Does the project improve transportation reliability?	High, Medium, Low	Travel time reliability

SUPPORTS ENVIRONMENT

Goal	Evaluation Metric	Description	Phase 1 Screening	Phase 2 Performance Measure
Promote a Healthier Environment	Transit Ridership	Does the project have enough capacity to substantially increase transit ridership?	High, Medium, Low	Transit ridership (local, regional, weekday, weekend)
	Emissions reduction	Does the project support the goal of reduced emissions?	High, Medium, Low	-Auto vehicle miles traveled -Greenhouse gas -Criteria pollutants
	Climate Adaptation	Will the project adapt to climate change?	High, Medium, Low	High, Medium, Low
	Biological, Visual, Noise and Vibration	Are there effects of the project on biological resources, visual, noise and vibration?	High, Medium, Low	High, Medium, Low
	Energy usage	Does the project support the goal of reduced energy usage?	High, Medium, Low	High, Medium, Low

OTHER GOALS

Goal	Evaluation Metric	Description	Phase 1 Screening	Phase 2 Performance Measures
Addresses project-specific concerns	Technical Feasibility	Is the project technically feasible?	Yes/No	
	Consistent with Other Planning Efforts	Is the project consistent with other local, state and federal planning efforts?	High, Medium, Low	High, Medium, Low
	Consistent with Regulatory Requirements	Is this project consistent with local, state, and federal regulatory requirements?	High, Medium, Low	High, Medium, Low
	Integration	Does the project integrate into the existing transportation infrastructure?	High, Medium, Low	High, Medium, Low
	ROW	How easily can the project be integrated into the existing ROW?	High, Medium, Low	% of corridor where additional ROW is required

TRANSIT CORRIDOR ALTERNATIVES ANALYSIS

INITIAL LIST OF ALTERNATIVES

In support of the Transit Corridor Alternatives Analysis: Santa Cruz to Watsonville, the universe of alternatives for the Rail Right of Way (ROW) will be identified for evaluation. This universe will be categorized into core and connector services.

- Core services will utilize the Rail ROW for the majority of its available length and to its fullest extent possible.
- Connector services are those that minimally run along the corridor or offer links/transfers to the core services.

CORE SERVICES

Core services, characterized as high capacity transit options for the Rail Right of Way (ROW), will leverage the characteristics of the dedicated corridor and be a key component of an integrated transportation network in the County. Characteristics of core services include:

- Service Model
 - Local Service
 - Commuter/Express
 - Intercity
- Fuel/Propulsion
 - Diesel
 - Electric – Battery, Fuel cell/hydrogen, Overhead Catenary
 - Compressed Natural Gas (CNG)
 - Hybrid
- Form Factor and Capacity, with the following ranges of passengers:
 - Up to 4 passengers seated
 - 10 to 20 passengers seated
 - 20 to 40 passengers seated
 - 40 to 50 passengers seated
 - 90 to 100 passengers seated/standing
- Guideway
 - Open/Mixed Traffic
 - Exclusive
 - Guided Exclusive
- Driver
 - Human-driven
 - Automated/Connected

Core service alternatives include:

Local Bus & ROW Bus – Large vehicles designed to carry passengers, usually along a fixed route according to a schedule. Local bus routes make frequent stops, linking neighborhoods with urban centers and providing connections within and between communities.



Commuter Express Bus – Fixed route bus, usually operating for longer distance trips with limited stops during peak commuting periods, operating on local streets and arterials as well as dedicated rights of way.



Arterial & BRT – A high-quality bus-based transit system that delivers fast and efficient service that may include some combination of dedicated lanes, traffic signal priority, off-board fare collection, elevated platforms, and enhanced stations. BRT often uses dedicated busways, guideways, or other exclusive ROWs to operate faster and more efficiently than traditional BRT systems.



Autonomous Road Train – An emerging vehicle technology that combines the capacity and form-factor of a traditional streetcar with rubber-tire operation. Manufacturers are planning for the incorporation of advanced autonomous and connected technology, essentially providing a rail-type service, without the cost associated with rail infrastructure.

Dual Rail and Bus Vehicles – An emerging technology that provides the versatility of a bus and the speed of light rail with vehicles that operate on both roadways and fixed guideways.



Micro-shuttles – Smaller passenger autonomous vehicles (12-15 persons operating at low speed and fixed routes. Manufacturers have been developing fully autonomous versions, with several deployed in the United States and California.



Shuttle (Light Duty, Van, Electric Vehicle) – A small public or private bus that travels back and forth over a particular route, especially a short-route or one that provides connections between transportation systems, employment centers, and other locations.



Intercity Rail – Train systems that travel between many cities, regions of a county, sometimes cross several counties or states, and are compatible with freight rail.

Commuter Rail – Passenger train operations (includes, Diesel



Multiple Unit -DMU) between a central city, its suburbs and/or another central city. It is

characterized by multi-trip

tickets, specific station-to-station fares, with usually only one or two stations in the central business district, and are compatible

with freight rail.



Light Rail/Electric Multiple Unit – **Light Rail**/EMUs are popular on commuter and suburban rail networks around the world due to their fast acceleration and pollution-free operation. Being quieter than diesel multiple units locomotive hauled trains, EMUs require no separate locomotive, as electric traction motors are incorporated within one or a number of the carriages, and are compatible with freight rail.



Light Rail/Diesel Multiple Unit – A rail transit line that can operate in a variety of settings including dedicated ROW, subway, or mixed on-street traffic. Light rail transit (LRT) usually relies on overhead wires for power and is designed for heavily traveled corridors where the stop needs do not support heavy rail transit, and are typically not compatible with freight rail.

Monorail / Automated People

Mover (APM) – An electric railway that is suspended from or straddles a guided roadway formed by a single beam or rail, and are not compatible with freight rail.



Tram / Trolley / Streetcar – Typically an electric railway with a



“light volume” traffic capacity compared to heavier rail. The system may use shared or exclusive ROW, high or low platform loading, and multi-car trains or single cars, and are not compatible with freight rail.

Personal Rapid Transit (PRT) - Personal Rapid Transit (PRT) are systems of small vehicles that operate on a demand-responsive basis, and work to move travelers directly from origin to destination along a fixed route. Several systems have been built, with the most notable in Morgantown, WV.



Inverted (or Elevated) PRT – Similar in concept to traditional PRTs, but using an inverted rail and smaller cars. This system is generally sold as a solution in urban areas, with space at a premium in which the system can be built over the top of an existing right of way.



Gondola - Also known as aerial tramways, these systems are a type of cable car pioneered for ski resorts, but have been deployed in urbanized areas to avoid the issues related to surface infrastructure. Passenger capacity can range from four passengers up to 100 per car, and the systems will typically have only two cars and two stops.

String Rail - A future concept using rigid overhead rails to transport passenger pods of various sizes. Unlike PRT, these systems would operate similar to traditional transit, and board at every stop. No functioning system has yet to be fully deployed for commercial or public use at this time.



Hyperloop - Started as a concept released by Elon Musk, a Hyperloop is a future transport system that uses evacuated tubes to move multi-passenger vehicles at speeds up to 700 mph. Several companies are currently developing prototypes, and planning has been started to deploy the systems in routes in several key markets within the U.S.



CONNECTOR SERVICES

Connector services support travel along portions of the Rail ROW and will augment the core services presented above. The extent to which many of these types of connector services will be implemented (e.g., human powered – walk, bicycle, scooter; micromobility – Segway, electric bicycle, electric scooter; and mini-/low capacity urban transport – automobiles, motorcycles, autonomous micro-shuttle, van), will be at the discretion of the commuter, though they are typically operated as first-mile/last-mile connections. Below examples consider connector services that could be implemented as part of an integrated transit system for Santa Cruz County, each previously shown under bus services.

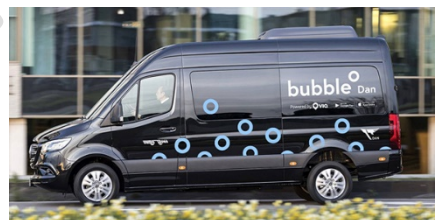
Local Bus & ROW Bus – Large vehicles designed to carry passengers, usually along a fixed route according to a schedule. Local bus routes make frequent stops, linking neighborhoods with urban centers and providing connections within and between communities.

Micro-shuttles – Smaller passenger autonomous vehicles (12-15 persons) that operate at low speed and navigate fixed routes. Manufacturers have been developing fully autonomous versions, with several deployed in the United States and California.



Shuttle (Light Duty, Van, Electric Vehicle) – A public

or private bus that travels back and forth over a particular route, especially a short route or one that provides connections between transportation systems, employment centers, etc.



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AGENDA: February 10, 2020

TO: SCCRTC Bicycle Advisory Committee

FROM: Grace Blakeslee, Senior Transportation Planner

RE: North Coast Rail Trail- 50% Design

RECOMMENDATIONS

RTC staff recommends that the Bicycle Committee review the 50% design for the North Coast Rail Trail project.

BACKGROUND

The North Coast Rail Trail Project includes construction of 7.5 miles of the Monterey Bay Sanctuary Scenic Trail's (MBSST) rail trail spine between Wilder Ranch and Davenport. Segment 5 is divided into two phases. Phase I is funded and spans 5.4 miles from Wilder Ranch to Panther/Yellowbank Beach. Phase II spans 2.1 miles from Panther/Yellowbank Beach to Davenport and includes improved parking lots and connections to the trail at Davenport and Panther/Yellowbank Beach, access improvements from the Bonny Doon Beach parking lot to the trail, and a pedestrian crosswalk in Davenport.

DISCUSSION

The Federal Highway Administration Central Federal Lands (CFL) division is leading the design and construction of the NCRT project and completed a second field survey in September 2019 at 50% design. RTC is working closely with CFL to provide the necessary information to obtain environmental resource agency permits and approvals from the California Coastal Commission, and the California Public Utilities Commission. CFL will conduct a 70% design visit in April 2020. Final design is scheduled to be completed in October 2020. Phase I of the North Coast Rail Trail is scheduled to go to construction in August 2021. Phase II, which includes the Davenport Crossing, will be built at the same time should funding be secured.

RTC staff provided a project update to the Bicycle Committee at the December 9, 2019 meeting. At that meeting, the Bicycle Committee requested that staff provide the committee with the current design plans for the project for their review. The NCRT project 50% design plans be viewed on the RTC website at: https://sccrtc.org/wp-content/uploads/2020/01/MBSST_NC_Plans.pdf. **RTC staff recommends that the Bicycle Committee review the 50% design for the North Coast Rail Trail project.** RTC will be available to address questions about the project design at the February 10, 2020 Bicycle

Committee Meeting.

SUMMARY

The North Coast Rail Trail Project includes construction of 7.5 miles of the Monterey Bay Sanctuary Scenic Trail's (MBSST) rail trail spine between Wilder Ranch and Davenport. RTC staff recommends that the Bicycle Committee review the 50% design for the North Coast Rail Trail project.

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AGENDA: February 10, 2020

TO: SCCRTC Bicycle Advisory Committee

FROM: Amy Naranjo, Transportation Planner

RE: 2045 Santa Cruz County Regional Transportation Plan – New Project Solicitation

RECOMMENDATIONS

Staff recommends that the Bicycle Advisory Committee (BAC):

1. Review the 2040 Regional Transportation Plan (RTP) project list and provide new project ideas for the 2045 Regional Transportation Plan.
-

BACKGROUND

As the regional transportation planning agency (RTPA) for Santa Cruz County, the Regional Transportation Commission (RTC) is responsible for developing, implementing and regularly updating the Regional Transportation Plan (RTP) for Santa Cruz County. The RTP is a state-mandated plan that identifies transportation needs in Santa Cruz County over the next twenty-plus years. It estimates the amount of funding that will be available over this timeframe and identifies a financially constrained priority list of projects. This planning effort is a critical component to project implementation as it provides a forum for setting the direction of transportation in our county over the next 20 plus years, it positions our community to receive federal, state or local funding for projects, and helps facilitate collaboration on projects. Individual projects listed in the RTP can only be implemented as local, state and federal funds become available.

The RTPs adopted by RTPAs in Santa Cruz, Monterey, and San Benito Counties are incorporated into the federally-mandated Metropolitan Transportation Plan/state-mandated Sustainable Communities Strategy (MTP/SCS), which is prepared by the Association of Monterey Bay Area Governments (AMBAG). The current 2040 RTP was adopted by RTC in June 2018 at the same time as the 2040 MTP/SCS was adopted by AMBAG and the 2040 RTPs by Transportation Agency for Monterey County (TAMC) and San Benito Council of Governments (SBCOG).

DISCUSSION

The next Santa Cruz County RTP and AMBAG MTP/SCS are scheduled for adoption in June 2022. These documents will provide transportation plans through 2045 and will be referred to as the 2045 RTP and 2045 MTP/SCS. The RTP and AMBAG

MTP/SCS are being updated after four years based on state law requirements to update the RTP every four or five years and SB 375 requirements to sync the adoption of the regional housing element (RHNA) that occurs every 8 years with the adoption of the MTP.

2045 RTP Work Plan

The Santa Cruz County Regional Transportation Plan consists of three main elements; the Policy Element, the Financial Element, and the Action Element.

- The Policy Element identifies the goals, policies, and measurable outcomes/targets that guide transportation funding decisions and prioritization.
- The Action Element of the RTP identifies specific projects and programs that could be funded within the projected funds identified in the Financial Element (constrained) and which projects/programs would require new revenues above and beyond those anticipated over the next twenty-plus years (unconstrained).
- The Financial Element identifies funds anticipated to be available for transportation projects and the outstanding funding needs over the next 20 plus years.

The draft work plan and schedule for the 2045 RTP are available online at <https://sccrtc.org/rtp>. The RTC is scheduled to adopt the draft Goals, Policies, and Targets at the February 2020 commission meeting.

Project Solicitation

The Action Element includes the complete list of transportation needs in the region. The transportation needs for the 2045 RTP and 2045 MTP will be solicited from the project sponsors, RTC, RTC Committees and the public from January through April 2020. A list of projects from the 2040 RTP is provided in Attachment 1. **Staff recommends that Bicycle Advisory Committee members review this list, identify additional projects that should be included, and recommend relative priority levels (high, medium, low).** A new project ideas form is available on the RTC website (<https://sccrtc.org/funding-planning/long-range-plans/2045-regional-transportation-plan/new-project-ideas/>). Priorities identified by the RTC Advisory Committee will be considered for the final draft 2045 RTP.

Project sponsors are concurrently reviewing this list. Staff anticipates that some projects may have been completed, increased in cost, or since been deemed infeasible. Those projects will not be carried over to the 2045 RTP. Any project ideas received from the RTC Committees and the public will be provided to the jurisdiction that is responsible for transportation projects in the location of interest. Proposed projects for inclusion in the RTP and MTP should advance the transportation plan goals and targets, as well as address the SB375-mandated

Sustainable Communities Strategy and Complete Streets needs. The RTC is scheduled to consider the draft project list in June 2020.

RTC staff requests that the Bicycle Advisory Committee review the 2040 RTP project list provided in Attachment 1 and provide new project ideas for the 2045 Regional Transportation Plan.

SUMMARY

The RTC is responsible for developing the Regional Transportation Plan for Santa Cruz County. The next RTP is planned for adoption in June 2022 in coordination with AMBAG and the 2045 MTP/SCS. RTC staff requests input from RTC Advisory Committees on the draft goals, policies and targets for the 2045 RTP. RTC staff also requests input on new project ideas to be added to the transportation needs list based on the 2040 RTP project list.

Attachments:

1. 2040 RTP Project List

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2040 Regional Transportation Plan Project List

Constrained and Unconstrained Projects - Not Escalated

Projects listed by lead agency, in alphabetical order by project name.

Project IDs without the letter "P" in front of the number have been also included in the Regional Transportation Improvement Program.

"Constrained" represents amount of project cost that could be funded with revenues anticipated through 2040.

While some projects have secured funding, this amount does not typically represent committed funds. "Unconstrained" represents amount of project cost that would need additional funding in order to be implemented.

All Figures in year 2016, '000s (thousands of dollars)

Project Title	ID	Project Description/Scope	Est total cost	Constrained	Unconstrained
Caltrans					
Collision Reduction & Emergency Projects	CT-P46	Various SHOPP projects that address collision reduction, mandates (including stormwater mandates) and emergency projects. (Constrained=30% of total cost).	\$732,380	\$219,714	\$512,666
Hwy 1/Harkins Slough Road Interchange: Bicycle/Pedestrian Bridge	WAT 01A	Construction of Pedestrian/Bicycle Bridge over Highway 1. Caltrans Project ID 05-1G490	\$9,900	\$9,900	\$0
Hwy 17 Access Management - Laurel Rd/Sugarloaf Rd/Glenwood Cutoff Area Grade Separation Concept	CT-P52	New structure providing grade-separation to facilitate crossing and turnaround.	\$40,000	\$0	\$40,000
Hwy 17 Access Management - Multimodal Improvements	CT-P50	Multimodal improvements including park and ride improvements, and facilities serving separated bike/ped crossing or express transit route.	\$20,000	\$0	\$20,000
Hwy 17 Access Management - Old Santa Cruz Hwy Area Grade Separation Concept	CT-P53	New structure providing grade-separation to facilitate crossing and turnaround.	\$40,000	\$0	\$40,000
Hwy 17 Access Management - Operational Improvements	CT-P49	Operational improvements to existing facilities including ramp modifications, accel/decel lanes, turning lanes, driveway consolidation, driveway channelization, etc.	\$50,000	\$0	\$50,000
Hwy 17 Access Management - Vine Hill Area Grade Separation Concept	CT-P51	New structure providing grade-separation to facilitate crossing and turnaround.	\$40,000	\$0	\$40,000
Hwy 17 Wildlife Habitat Connectivity	CT-P48	Wildlife Crossing	\$9,198	\$9,198	\$0
Measure D Hwy 9 Corridor Projects	CT-P09e	Corridor study is underway to identify need for shoulder widening, turnouts for buses, bicycle and pedestrian improvements, and turn lanes at spot locations in SLV. Capital Cost Est. TBD.	\$10,000	\$7,349	\$2,651
Minors	CT-P47	Various small SHOPP projects (less than \$1 million) that reduce/enhance maintenance efforts by providing minor operational, pavement rehab, drainage, intersection, electrical upgrades, landscape and barrier improvements. (Constrained=30% of total cost).	\$8,600	\$2,580	\$6,020
State Highway Preservation (bridge, roadway, roadside)	CT-P45	Various SHOPP projects that address bridge preservation, roadway & roadside preservation and limited mobility improvements. (Constrained=30% of cost to maintain).	\$778,390	\$467,163	\$311,227
Caltrans Total			\$1,738,468	\$715,904	\$1,022,564
CHP - California Highway Patrol					
Hwy 129 Safety Program	CHP-P03	Additional CHP enforcement and public education campaign on Highway 129.	\$500	\$0	\$500
Hwy 17 Safety Program	CHP-P01	Continuation of Highway 17 Safety Program in Santa Cruz County at \$100/year. Includes public education and awareness, California Highway Patrol (CHP) enhancement, pilot cars, electronic speed signs.	\$2,200	\$2,200	\$0

Project Title	ID	Project Description/Scope	Est total cost	Constrained	Unconstrained
Traffic Management	CHP-P02	Patrol of state route system and unincorporated roadways aimed at minimizing traffic collisions and traffic delays; and provide assistance to motorists. COST EST TBD.	\$0	\$0	\$0
CHP - California Highway Patrol Total			\$2,700	\$2,200	\$500
City of Capitola					
40th Ave (at Deanes Ln)Bike/Ped connection	CAP-P46	40th Avenue N/S bike/pedestrian connection at Deanes Lane.	\$10	\$10	\$0
40th Ave/Clares St Intersection Improvements	CAP-P38	Widen intersection and signalize.	\$1,550	\$1,050	\$500
41st Ave (Soquel to Portola) Crosswalks	CAP-P47	Evaluate and if found necessary, increase number of crosswalks on 41st to closer to every 300 ft.	\$20	\$20	\$0
41st Ave/Capitola Road Intersection Improvements	CAP-P37	Widen intersection and reconfigure signal phasing.	\$520	\$520	\$0
46th/47th Ave (Clares to Cliff Dr) Bike Lanes/Traffic Calming	CAP-P40	46th/47th from Clares to Portola/Cliff - Add traffic calming and wayfinding signage to connect to Brommer and MBSST.	\$20	\$20	\$0
47th Avenue Traffic Calming and Greenway	CAP-P30	Traffic calming and traffic dispersion improvements along 47th Ave from Capitola Rd to Portola Drive and implementation of greenway, which gives priority to bicycles and pedestrians on low volume, low speed streets including, pedestrian facilities, way finding and pavement markings, bicycle treatments to connect to MBSST.	\$100	\$100	\$0
Auto Plaza Drive Extension to Bay Avenue	CAP-P35	Extend Auto Plaza Drive over Soquel Creek to Bay Avenue. Includes improvements to Auto Plaza Drive.	\$10,330	\$0	\$10,330
Bay Avenue Traffic Calming and Bike/Ped Enhancements	CAP-P29	Traffic calming features along Bay Avenue from Highway 1 to Monterey Avenue, including left turn pocket, buffered pedestrian facilities and bicycle treatments (such as buffered and/or painted bike lanes, bike boxes, bike signals) to address speed inconsistency between bicyclists and vehicles.	\$410	\$210	\$200
Bay Avenue/Capitola Avenue Intersection Modifications/Roundabout	CAP 16	Multimodal improvements to intersection. Roundabout.	\$1,000	\$1,000	\$0
Bay Avenue/Hill Street Intersection	CAP-P07	Intersection improvements to improve traffic flow. Roundabout.	\$210	\$210	\$0
Bay Avenue/Monterey Avenue Intersection Modification	CAP-P32	Multimodal improvements to the intersection. Include signalization or roundabout along with pedestrian, bicycle treatments (such as buffered and/or painted bike lanes, bike boxes, bike signals) and transit access.	\$310	\$310	\$0
Brommer Street Complete Street Improvements (250' west of 38th Ave to 41st Ave)	CAP 18	Construct complete street roadway improvements on Brommer St. to improve access for vehicles, bikes, and pedestrians. Pavement reconstruction, install ADA driveways and sidewalks, and reconfigure eastbound approach to 41st Ave. for vehicle access.	\$770	\$770	\$0
Brommer/Jade/Topaz St Bike Lanes/Traffic Calming (Western City Limit on Brommer to 47thAve)	CAP-P41	Add buffered bike lanes, traffic calming and wayfinding signage and bike/ped priority crossing at 41st Ave, connecting the two N/S neighborhood greenways.	\$20	\$20	\$0
Capitola Intra-City Rail Trolley	CAP-P18	Construct & Operate Weekend Rail Trolley Service. Project includes installation of 3 stations.	\$14,460	\$0	\$14,460
Capitola Jitney Transit Service	CAP-P15	Purchase and operate local transit service.	\$1,030	\$0	\$1,030
Capitola Mall (Capitola Rd to Clares) Bike Path	CAP-P48	Separated bicycle facility through Capitola Mall parking lot to connect 38th Ave bike lanes and 40th Ave.	\$50	\$50	\$0

Project Title	ID	Project Description/Scope	Est total cost	Constrained	Unconstrained
Capitola Rd & 45th Avenue I/S Improvements	CAP-P53	Signalization or other LOS improvements	\$400	\$400	\$0
Capitola Village Enhancements: Capitola Ave	CAP-P34	Multimodal enhancements along Capitola Avenue.	\$1,030	\$1,030	\$0
Capitola Village Multimodal Enhancements - Phase 2/3	CAP-P04b	Multimodal enhancements in Capitola Village along Stockton Ave, Esplanade, San Jose Ave, & Monterey Av. Includes sidewalks, bike lanes, bike lockers, landscaping, improve transit facilities, parking, pavement rehab and drainage.	\$3,100	\$3,100	\$0
Capitola-wide HOV priority	CAP-P50	Evaluate HOV priority at signals and HOV queue bypass.	\$40	\$40	\$0
Citywide Bike Projects	CAP-P52	Bike projects based on needs identified through the Bicycle Plan. These projects are in addition to projects listed individually in the RTP.	\$1,030	\$400	\$630
Citywide General Maintenance and Operations	CAP-P06	Ongoing maintenance, repair, and operation of road/street system within the City limits. (Const=\$1850K/yr; Unconst=\$150K/yr).	\$44,000	\$40,666	\$3,334
Citywide Sidewalk Program	CAP-P51	Install sidewalks to fill gaps. Annual Cost \$50k/yr.	\$1,030	\$520	\$510
Citywide Traffic Calming	CAP-P17	Install traffic calming/neighborhood livability improvements.	\$1,450	\$1,450	\$0
Clares St Bike Lanes/Sharrows (Capitola Rd to 41st Ave)	CAP-P42	Evaluate and if found necessary, add bike lanes/sharrows to Clares.	\$100	\$100	\$0
Clares St/41st Ave Bicycle Intersection Improvement	CAP-P43	Bike treatments (such as buffered and/or painted bike lanes, bike boxes, bike signals) at Clares across 41st.	\$10	\$10	\$0
Clares Street Pedestrian Crossing west of 40th Ave	CAP-P16	Construct signalized ped x-ing 0.20 miles west of 40th Ave.	\$520	\$250	\$270
Clares Street Traffic Calming	CAP 11	Implementation of traffic calming measures: chicanes, center island median, new bus stop, and road edge landscape treatments to slow traffic. Construct new safe, accessible ped x-ing at 42nd and 46th Av.	\$750	\$750	\$0
Cliff Drive Improvements	CAP-P05	Installation of sidewalks, pedestrian crossing and slope stabilization of embankment including seawall.	\$1,550	\$1,550	\$0
Gross/41st Ave Bicycle Intersection Improvement	CAP-P44	Bike treatments (such as buffered and/or painted bike lanes, bike boxes, bike signals) from Gross E/B to 41st N/B.	\$20	\$20	\$0
Hwy 1/41st Avenue Interchange	CAP-P01	Implement 41st Avenue & Bay Ave/Porter Ave single interchange improvements as detailed and expensed in Hwy 1 HOV project (RTC 24) as a stand alone project if the RTC project does not proceed. (\$117M)	\$0	\$0	\$0
Monterey Avenue and Park Avenue I/S Improvements	CAP-P56	Signalization or other LOS improvements	\$400	\$400	\$0
Monterey Avenue at Depot Hill	CAP-P28	Improve vehicle ingress and egress to Depot Hill along Escalona Ave and improve pedestrian facilities.	\$260	\$260	\$0
Monterey Avenue Multimodal Improvements	CAP-P12	Installation of sidewalks and bike lanes in area near school and parks.	\$360	\$360	\$0
Park Avenue Sidewalks	CAP 15	Installation of sidewalks, plus crosswalks at Cabrillo and Washburn to improve access to transit stops. Links Cliffwood Heights neighborhood to Capitola Village. Currently only 4 short segments of sidewalk exist.	\$650	\$650	\$0
Park Avenue/Kennedy Drive Improvements	CAP-P09	Construct intersection improvements, especially for bikes/peds. May include traffic signal.	\$360	\$360	\$0

All Figures in year 2016, '000s (thousands of dollars)

Project Title	ID	Project Description/Scope	Est total cost	Constrained	Unconstrained
Porter Street and Highway 1 I/S Improvements	CAP-P55	Add additional dedicated right turn lane on Porter St to northbound on ramp	\$250	\$250	\$0
Stockton Ave Bridge Rehab	CAP-P07p	Replace bridge with wider facility that includes standard bike lanes and sidewalks.	\$3,000	\$1,500	\$1,500
Stockton Avenue and Capitola Avenue I/S Improvements	CAP-P57	Signalization or other LOS improvements	\$350	\$350	\$0
Upper Capitola Avenue Improvements	CAP-P03	Installation of bike lanes and sidewalks on Capitola Av. (Bay Av.-SR 1) and sidewalks on Hill St. from Bay Av. to Rosedale Av.	\$1,340	\$1,340	\$0
Upper Pacific Cove Parking Lot Pedestrian Trail and Depot Park Metro Development	CAP 17	Construct 4 foot wide pedestrian pathway along City owned Upper Pacific Cove Parking lot, adjacent to rail line (680'). Includes new signal for ped crossing over Monterey Avenue. Includes a new metro shelter located and landscaped setting along the rail corridor/Park Ave. Part of MBSST.	\$310	\$310	\$0
Wharf Road and Stockton Avenue I/S Improvements	CAP-P54	Signalization or other LOS improvements	\$350	\$350	\$0
Wheelchair Access Ramps	CAP-P27	Install wheelchair access/curb cut ramps on sidewalks citywide.	\$200	\$200	\$0
City of Capitola Total			\$93,670	\$60,906	\$32,764
City of Santa Cruz					
Almar Ave Sidewalks	SC-P126	Fill gaps in sidewalks and access ramps to improve pedestrian safety.	\$200	\$200	\$0
Arroyo Seco Trail (Medar St to Grandview St)	SC-P107	Pave existing gravel trail and widen and pave connection to Grandview St.	\$500	\$0	\$500
Bay Street Corridor Modifications	SC-P77	Intersection modifications on Bay St Corridor from Mission St to Escalona Dr, including widening at the Mission St northeast corner and widening on Bay. Improve bike lanes and add sidewalks to west side of Bay.	\$5,100	\$970	\$4,130
Bay/California Traffic Signals	SC-P96	Install traffic signals for safety and capacity improvements.	\$520	\$0	\$520
Bay/High Intersection Modification	SC-P109	Install a roundabout or modify the traffic signal to include protected left-turns and new turn lanes. Revise sidewalks, access ramps and bike lanes as appropriate.	\$2,150	\$2,150	\$0
Beach/Cliff Intersection Signalization	SC-P93	Signalize intersection for pedestrian and train safety.	\$210	\$210	\$0
Branciforte Creek Pedestrian Path Connections	SC-P95	Fill gaps in pedestrian and bike paths along and across Branciforte Creek in the Ocean-Lee-Market-May Streets area.	\$3,410	\$0	\$3,410
Brookwood Drive Bike and Pedestrian Path	SC-P21	Provide 2-way bicycle and pedestrian travel.	\$1,030	\$0	\$1,030
Chestnut St. Pathway	SC-P22	Install a Class 1 bicycle/pedestrian facility to connect the east side of Neary Lagoon Park with the Depot Park path.	\$570	\$570	\$0
Chestnut Street Bike Lanes	SC-P47	Install Class 2 bike lanes to provide connection from existing bike lanes on Laurel Street and upper Chestnut Street to proposed Class 1 bike path connections to Bay Street and Pacific Avenue/Beach Street.	\$100	\$100	\$0
Citywide Operations and Maintenance	SC-P07	Ongoing maintenance, repair, and operation of street system within the City limits. (Const=\$3.0M/yr; Unconst=\$4.2M/yr)	\$163,630	\$86,249	\$77,381
Citywide Safe Routes to School Projects - ATP	SC-P125	Projects to improve pedestrian and bicycle safety near schools.	\$8,204	\$1,404	\$6,800

Project Title	ID	Project Description/Scope	Est total cost	Constrained	Unconstrained
Citywide Street Sweeping	SC-P128	Ongoing street sweeping, funded from City Refuse Enterprise Fund.	\$19,800	\$19,800	\$0
Delaware Avenue Complete Streets	SC-P23	Fill gaps in bicycle lanes, sidewalks and sidewalk access ramps.	\$150	\$150	\$0
High St/Moore St Intersection Modification	SC-P90	Add a protected left turn to existing signalized intersection along High St at city arterial. Project is located in high pedestrian and bicycle use activity area.	\$100	\$100	\$0
Hwy 1 - Harvey West Area Alternative Access	SC-P108	Development of an on/off ramp from NB Highway 1 to Harvey West Boulevard/Evergreen St, to improve access, especially during peak congestion times and emergencies.	\$4,130	\$0	\$4,130
Hwy 1 Sound Wall	SC-P03	Install sound wall on Hwy 1: River to Chestnut.	\$520	\$0	\$520
Hwy 1/9 Intersection Modifications	SC 25	Intersection modifications including new turn lanes, bike lanes, shoulders, lighting, sidewalks and access ramps. Includes adding second left-turn lane on Highway 1 southbound to Highway 9 northbound; second northbound through lane and shoulder on northbound Highway 9, from Highway 1 to Fern Street; a right-turn lane and shoulder on northbound Highway 9; through-left turn lane on northbound River St; replace channelizers on Highway 9 at the intersection of Coral Street; sufficient lane width along the northbound through/left turn lane on Highway 9 from Fern Street to Encinal Street; new sidewalk along the east side of Highway 9 from Fern Street north to Encinal Street; new through/left turn lane on southbound Highway 9; Traffic Signal interconnect to adjacent signals. (Caltrans project ID - 05-46580)	\$7,850	\$7,850	\$0
Hwy 1/Mission St at Chestnut/King/Union Intersection Modification	SC-P81	Modify design of existing intersections to add lanes and upgrade the traffic signal operations to add capacity, reduce delay and improve safety. Provide access ramps and bike lanes on King and Mission. Includes traffic signal coordination.	\$4,650	\$4,650	\$0
Hwy 1/San Lorenzo Bridge Replacement	SC 38	Replace the Highway 1 bridge over San Lorenzo River to increase capacity, improve safety and improve seismic stability, from Highway 17 to the Junction of 1/9. Reduce flooding potential and improve fish passage. Caltrans Project ID 05-0P460	\$20,000	\$20,000	\$0
Hwy 1/Shaffer Rd Signalization	SC-P92	Signalization of intersection of Hwy 1 and Shaffer Rd. Project may includes some widening of Hwy 1 to accommodate a left turn lane.	\$520	\$0	\$520
King Street Bike Facility (entire length)	SC-P59	Install Class 2 bike lanes on residential collector street which includes some parking and landscape strip removals, and some drainage inlet modifications.	\$2,070	\$2,070	\$0
King/Laurel Intersection Modification	SC-P114	Modify unsignalized intersection to add eastbound right turn lane.	\$100	\$0	\$100
Laurent/High Intersection Improvements	SC-P97	Install Traffic Signal.	\$410	\$0	\$410
Lump Sum Bike Projects	SC-P75	Bike projects based on needs identified through the Active Transportation Plan and Santa Cruz City Schools Complete Streets Master Plan. These are in addition to projects listed individually in the RTP.	\$6,800	\$0	\$6,800
Market Street Sidewalks and Bike Lanes	SC-P105	Completion of sidewalks and bicycle lanes. Includes retaining walls, right-of-way, tree removals, and a bridge modification.	\$1,030	\$1,030	\$0
MBSST (Coastal Rail Trail): Segment 7 (Natural Bridges to Pacific Ave)	TRL 07SC	2.1 miles of Monterey Bay Sanctuary Scenic Trail Network (MBSST) Segment 7 along rail line (excluding Moore Creek rail trestle bridge and trail to Natural Bridges Drive).	\$7,400	\$7,400	\$0
MBSST (Coastal Rail Trail_ - Segment 8 and 9)	TRL 8-9a	Rail Trail Design, Environmental Clearance and Construction along the rail corridor between Pacific Ave in the City of Santa Cruz to 17th Ave in Santa Cruz County	\$32,934	\$32,934	\$0
Measure H Road Projects	SC-P104	Road rehabilitation and reconstruction projects citywide to address backlog of needs using Measure H sales tax revenues. (Some Measure H funds anticipated to fund specific projects listed in the RTP).	\$41,800	\$41,800	\$0

Project Title	ID	Project Description/Scope	Est total cost	Constrained	Unconstrained
Mission St (Hwy 1)/Laurel St Intersection Modification	SC-P112	Modify traffic signal to add right-turn from Mission St to Laurel St and signal overlap phase.	\$1,030	\$0	\$1,030
Mission St (Hwy 1)/Swift St Intersection Modification	SC-P113	Modify traffic signal to add Swift St right-turn lane and signal overlap phase.	\$500	\$0	\$500
Morrissey Blvd. Bike Path over Hwy 1	SC-P29	Install a Class 1 bicycle and pedestrian facility on freeway overpass.	\$300	\$300	\$0
Morrissey/Poplar/Soquel Intersection Modification	SC-P12	Modify the roadway configuration in the Morrissey/Poplar/Soquel triangle area to improve traffic circulation and safety for all modes.	\$2,070	\$0	\$2,070
Murray St Bridge Retrofit	SC 37	Seismic retrofit of existing Murray St. bridge (36C0108) over Woods Lagoon at harbor and associated approach roadway improvements and replacement of barrier rail. Includes wider bike lanes and sidewalk on ocean side. Include access paths to harbor if eligible.	\$11,440	\$11,440	\$0
Murray St to Harbor Path Connection	SC-P30	Install a Class 1 bicycle/pedestrian facility.	\$210	\$210	\$0
Neighborhood Traffic Management Improvements	SC-P73	Install traffic control devices and roadway design features to manage neighborhood traffic.	\$2,580	\$0	\$2,580
North Branciforte/Water Intersection Modification	SC-P115	Modify traffic signal and add additional lanes per traffic study. Include signal interconnect if applicable.	\$2,070	\$0	\$2,070
Ocean St and San Lorenzo River Levee Bike/Ped Connections (Felker, Kennan, Blain, Barson Streets)	SC-P120	Improve pedestrian and bicycle facilities on side streets to connect Ocean Street with San Lorenzo River Levee path system.	\$620	\$0	\$620
Ocean St Pavement Rehabilitation	SC 48	Pavement rehabilitation using cold-in-place recycling process; includes new curb ramps, restriping of bicycle lanes and crosswalks.	\$1,030	\$1,030	\$0
Ocean St Streetscape and Intersection, Plymouth to Water	SC-P86	Implement this phase of the Ocean Street plan and modify Plymouth St to provide separate turn lanes and through lanes, widen sidewalks, pedestrian islands/bulbouts, transit improvements, street trees, street lighting and medians landscaping improvements. This includes pedestrian and bicycle crossing improvements and detection and connectivity to the pedestrian and bicycle path on the San Lorenzo River and adjacent neighborhoods. Include Gateway treatment.	\$4,130	\$2,000	\$2,130
Ocean St Streetscape and Intersection, Water to Soquel	SC-P84	Implement this phase of the adopted Ocean Street plan including adding turn lanes on Ocean Street at the Water Street intersections, wider sidewalks, pedestrian crossing islands/bulb outs, transit improvements, street trees, pedestrian scale street lights, and medians improvements, way finding, and pedestrian and bicycle connectivity to San Lorenzo Park and neighborhoods.	\$6,200	\$0	\$6,200
Ocean Street Corridor Multiuse Transit Lane	SC-P122	Consider restricting parking to develop business access and transit (BAT) lane to serve tourism and improving transit facilities.	\$410	\$0	\$410
Ocean Street Widening from Soquel to East Cliff	SC-P66	Implement this phase of the Ocean Street plan that includes utility undergrounding, bike lanes, wider sidewalks, pedestrian crossing islands/bulb outs, transit improvements, pedestrian scale street lights, street trees and left turn lanes at Broadway and a right-turn lane at San Lorenzo Blvd. This includes pedestrian and bicycle crossing improvements and detection and connectivity to the pedestrian and bicycle path on the San Lorenzo River and adjacent neighborhoods.	\$5,170	\$0	\$5,170
Ocean Street/San Lorenzo River Levee Area Wayfinding	SC-P124	Install signage on the bike/ped scale to bike/ped facilities connecting key destinations.	\$150	\$0	\$150

All Figures in year 2016, '000s (thousands of dollars)

Project Title	ID	Project Description/Scope	Est total cost	Constrained	Unconstrained
Pacific Ave. Sidewalk	SC 50	Construct 200' of new sidewalk on Pacific Avenue between Front Street and 55 Front St, including installation of a new accessible crosswalk at Front and Pacific; 150' bike lane.	\$440	\$440	\$0
River (Rte 9)/Fern Intersection Modification	SC-P110	Install traffic signal, sidewalk and new access ramps. Provide bike lanes on Fern.	\$520	\$0	\$520
River St/River Street South Intersection Modification	SC-P116	Install a roundabout or traffic signal to improve access and safety to the Downtown core, integrating bike and pedestrian facilities.	\$520	\$0	\$520
River Street Pavement Rehabilitation (Water St to Potrero Street)	SC 51	Pavement rehabilitation of River Street between Water Street and Potrero Street. (0.4 mi)	\$2,000	\$1,000	\$1,000
Riverside Ave/Second St Intersection Modification.	SC-P13	Modify intersection to reduce congestion and improve pedestrian crossing.	\$175	\$175	\$0
San Lorenzo River Bike/Ped Trail at RR Bridge	TRL 8a	Widen existing four foot walkway that connects the east end of the Beach Street Pathway with East Cliff Drive at the location of the current railroad bridge over the San Lorenzo River and to connect the east and west banks of the San Lorenzo River Pathway. The crossing currently only accommodates pedestrians.	\$1,550	\$1,550	\$0
San Lorenzo River Levee Path Connection	SC-P35	Install a Multi-Use bicycle/pedestrian facility connecting the end of the San Lorenzo River Levee path on the eastern side of the river, up East Cliff Drive near Buena Vista Ave.	\$2,070	\$2,070	\$0
Seabright Avenue Bike Lanes (Pine-Soquel)	SC-P69	Install Class 2 bike lanes on arterial street to complete the Seabright Avenue bike lane corridor and connect to bike lane corridor on Soquel Avenue and Murray. Includes removal of some parking and some landscape strips.	\$2,070	\$2,070	\$0
Seabright/Murray Traffic Signal Modifications	SC-P100	Remove split phasing on Seabright and add right-turn lane northbound.	\$1,030	\$1,030	\$0
Seabright/Water Intersection Improvements	SC-P99	Modify unsignalized intersection to add northbound right and extend left-turn pocket.	\$100	\$0	\$100
Shaffer Road Widening and Railroad Crossing	SC-P91	Construction of a new crossing of the Railroad line at Shaffer Rd. and widening at the southern leg of Shaffer in conjunction with development. Complete sidewalks and bike lanes.	\$1,000	\$1,000	\$0
Sidewalk Program	SC-P09	Install and maintain sidewalks and access ramps.	\$20,660	\$5,500	\$15,160
Soquel Ave at Frederick St Intersection Modifications	SC 42	Widen to improve eastbound through-lane transition on Soquel Ave and lengthen right-turn pocket and bicycle lane on Frederick St. Upgrade access ramps.	\$310	\$310	\$0
Soquel Ave Corridor Widening (Branciforte-Morrissey)	SC-P87	Minor widening and signal modifications along Soquel Ave corridor from Branciforte to Morrissey Blvd to widen sidewalks, transit improvements, improve pedestrian and bicycle detection and crossings, add a travel lane, maintain some commercial parking and improve existing bike lanes. Replacing the split phasing with protected left-turns at Branciforte to reduce delays for all modes of travel and GHG.	\$2,320	\$0	\$2,320
Soquel/Branciforte/Water (San Lorenzo River to Branciforte) Bike Lane Treatments	SC-P123	Consider bike treatments (such as buffered and/or painted bike lanes, bike boxes, bike signals) to address speed inconsistency and parking conflicts between bicyclists and vehicles.	\$410	\$410	\$0
Soquel/Water (Branciforte to Morrissey) Crosswalks	SC-P119	Evaluate and if found necessary implement additional crosswalks on Soquel/Water with consideration for safety, and update crosswalks to more visible pattern (block).	\$300	\$150	\$150
Storey/King Street Intersection Left-Turn Lane	SC-P76	Remove parking and modify striping for second southbound left turn lane.	\$100	\$0	\$100
Swift/Delaware Intersection Roundabout or Traffic Signal	SC-P101	Install Traffic Signal or Roundabout at Intersection to improve capacity and safety.	\$500	\$500	\$0

All Figures in year 2016, '000s (thousands of dollars)

Project Title	ID	Project Description/Scope	Est total cost	Constrained	Unconstrained
Water Street Pavement Rehabilitation(N. Branciforte Ave- Ocean St)	SC 49	Pavement rehabilitation of Water Street between North Branciforte Avenue and Ocean Street. Grant Condition: Add bicycle and pedestrian treatments at intersections, especially at Branciforte to reduce conflicts between motorized and non-motorized users.	\$1,453	\$1,453	\$0
West Cliff Path Minor Widening (David Way Lighthouse to Swanton)	SC 23	Improve existing path.	\$520	\$520	\$0
West Cliff/Bay Street Modifications	SC-P83	Install signal or roundabout to replace the all-way stop to improve safety and capacity.	\$500	\$500	\$0
City of Santa Cruz Total			\$412,346	\$263,295	\$149,051
<i>City of Scotts Valley</i>					
Bean Creek Rd Sidewalks (SVMS to Blue Bonnet)	SV-P35	Fill gaps in sidewalks on Bean Creek Rd.	\$410	\$410	\$0
Bean Creek Road Realignment	SV-P16	Realign Bean Creek Road to intersect Scotts Valley Drive farther North to create a four way intersection.	\$2,840	\$0	\$2,840
Bike Rest Stops in Scotts Valley	SV-P38	Bike rest stops (including racks, water) at Camp Evers Park and Skypark.	\$230	\$0	\$230
Citywide Access Ramps	SV-P06	Place handicap ramps at various locations. Avg annual cost: \$8K/yr.	\$210	\$210	\$0
Citywide Bike Lanes	SV-P41	Construction of additional bike lanes and paths citywide (including Green Hills).	\$3,100	\$0	\$3,100
Citywide General Maintenance and Operations	SV-P27	Ongoing maintenance, repairs, and operation of road/street system within the City limits. (\$400K/yr const; \$250/yr unconst).	\$14,770	\$13,459	\$1,311
Citywide Sidewalk Program	SV-P05	Install sidewalks to fill gaps. Annual Cost \$50k/yr	\$5,170	\$2,600	\$2,570
Civic Center Dr Bike Lanes	SV-P33	Add bike lanes to narrow road.	\$410	\$0	\$410
El Pueblo Rd Ext North	SV-P14	Connect El Pueblo Road via Janis Way to Victor Square, crossing Carbonero Creek.	\$1,240	\$0	\$1,240
El Pueblo Rd Extensions	SV-P15	Connect El Pueblo Road to Disc Drive.	\$410	\$0	\$410
El Rancho Dr Bike Lanes	SV-P36	Add bike lanes on El Rancho within city limits.	\$340	\$0	\$340
Emergency Access Granite Creek/Hwy 17	SV-P24	Connect Granite Creek Rd to SR 17 via Navarra Drive to Sucinto Drive, for emergency access.	\$570	\$0	\$570
Emergency Access SV DR/Upper Willis Dr	SV-P25	Connect Scotts Valley Drive to Upper Willis Road for emergency access.	\$1,030	\$0	\$1,030
Emergency Access Whispering Pines	SV-P26	Connect Whispering Pines Drive to Manana Woods for emergency access.	\$50	\$0	\$50
Emergency Access-Bethany/Glenwood	SV-P23	Connect Bethany Drive to Glenwood Drive.	\$210	\$0	\$210
Emergency Access-Sundridge/Pueblo	SV-P22	Connect Sunridge Drive to Disc Drive for emergency access.	\$410	\$0	\$410
Erba Lane/Terrace View/SV Drive Realignment	SV-P10	Realign Terrace View to access Scotts Valley Drive via Erba Lane.	\$520	\$0	\$520
Glen Canyon Rd Bike Lanes	SV-P29	Class 2 Bike lanes from Flora Lane to Green Hills. Oak Creek to Flora Ln are already complete.	\$1,030	\$0	\$1,030

Project Title	ID	Project Description/Scope	Est total cost	Constrained	Unconstrained
Glen Canyon Rd/Green Hills Rd/S. Navarra Dr Bike Corridor and Roadway Preservation	SV 28	Repave two roads, add bike lanes (on Green Hills Rd), and signage. Includes road markings like sharrows and green lane treatments to assist commuters, students, and recreational bikers; and bike/walk education and outreach programs (\$14k).	\$993	\$993	\$0
Glenwood Drive Rehabilitation and Bicycle Improvement Project	SV 29	Pavement rehabilitation of Glenwood Dr. (K Street Way to city limits), drainage repair, and widen to add bike lanes. (0.58mi)	\$865	\$865	\$0
Hwy 17/Midtown Interchange	SV-P01	Construct new SR17 interchange midway between Mt. Hermon Rd and Granite Creek Rd. Will require right-of-way.	\$30,990	\$0	\$30,990
Hwy 17/Mt. Hermon Rd Interchange Operations Improvement	SV-P44	Add lane to SB off-ramp at Hwy 17/Mt. Hermon Rd interchange.	\$1,030	\$0	\$1,030
Kings Village Rd/Town Center Entrance Traffic Signal	SV-P52	Install new traffic signal at the intersection of Kings Village Rd and new Town Center entrance (near transit center) with protected pedestrian crossings and transit signal priority. New Signalization of the intersection on Kings Village Rd at the transit center exit and future Plan street connection would provide a location for protected pedestrian crossings, and would allow transit operators to easily exit the transit center and maintain operating schedules.	\$210	\$105	\$105
Kings Village Road/ Bluebonnet Lane Sidewalk	SV 30	Construct new, fill gaps, and improve accessibility of sidewalks on both sides of King's Village Rd. (Mt. Hermon to Bluebonnet) and south side of Bluebonnet Lon (KV to Bean Creek). Approx.0.3mi. Curb ramp upgrades at Mt. Hermon.	\$306	\$306	\$0
Lockhart Gulch Rd Bike Lanes	SV-P37	Add Class 2 bike lanes to narrow, primarily residential street.	\$720	\$0	\$720
Lockwood Ln Pedestrian Signal Near Golf Course	SV-P21	Construct a pedestrian signal at unprotected ped crossing on Lockwood Lane.	\$50	\$50	\$0
Lockwoode Lane Sidewalk and Bike Lanes	SV-P40	Construct Bike Lanes and add sidewalk on the west side from Mt. Hermon to the City limit.	\$520	\$520	\$0
Mt Hermon Rd and Scotts Valley Drive - Crosswalks	SV-P49	Increase number of crosswalks on Mt Hermon/Scotts Valley Dr, update crosswalks to block pattern, add pedestrian treatments where necessary at intersections to decrease distance across using refuge islands. Add crosswalks to all sides of intersections (particularly an issue on Scotts Valley Dr). Add HAWK signals to provide a low delay signalized crossing opportunity at select locations. Examples include the Safeway Driveway on Mt. Hermon Rd, at Victor Square/Scotts Valley Dr., and at Trammel Way/Scotts Valley Dr.	\$1,030	\$515	\$515
Mt Hermon Rd to El Rancho Drive Bike/Ped Connection	SV-P53	New bike/ped connection between Mt Hermon Road and El Rancho Drive which could include improved bike/ped facilities on existing interchange or new bike/ped crossing.	\$1,030	\$1,030	\$0
Mt Hermon Rd/ Spring Lakes Dr. Pedestrian Intersection Improvements	SV-P54	Improve pedestrian crossing at Spring Lakes Drive and Mt. Hermon Road.	\$50	\$50	\$0
Mt Hermon Road Sidewalk Connections	SV-P30A	Add sidewalks to fill gaps in business district.	\$520	\$520	\$0
Mt Hermon, Lockewood, Springs Lake Widening	SV-P13	Widen, reconstruct and improve portions of roadway and intersection.	\$4,130	\$0	\$4,130
Mt Hermon/King's Village Rd-Transit Signal priority	SV-P46	Transit signal priority at Kings Village Rd/Mt Hermon Rd.	\$80	\$80	\$0
Mt Hermon/Scotts Valley - Transit Queue Jump	SV-P47	Evaluate and if found to be beneficial, remove right turn islands at Mt Hermon Rd/Scotts Valley Road to add transit queue jump lanes/signals.	\$620	\$620	\$0
Mt. Hermon Rd Circulation Master Plan	SV-P09	Provides various circulation and access improvements to the Mount Herman corridor.	\$3,620	\$0	\$3,620

Project Title	ID	Project Description/Scope	Est total cost	Constrained	Unconstrained
Mt. Hermon Road/Town Center Entrance Traffic Signal	SV-P51	Install new traffic signal at the intersection of the future Town Center road that will accommodate increased pedestrian travel. Add a right-turn lane on the westbound approach. New signalization of the intersection at the future Town Center's primary access point on Mt. Hermon Road would provide protected pedestrian crossing, ADA accessible curb ramps and detectable surfaces on all intersection corners. Permitted left-turn phasing shall be used for the northbound and southbound approaches, while protected left-turn phasing shall be provided on the eastbound and westbound Mt. Hermon Road approaches.	\$260	\$130	\$130
N. Navarra Dr-Sucinto Dr Bike Lanes	SV-P34	Add bike lanes to developing area behind commercial.	\$620	\$0	\$620
Neighborhood Traffic Calming	SV-P28	Citywide traffic calming devices.	\$770	\$770	\$0
Scotts Valley Town Center Bicycle/Pedestrian Facilities	SV-P45	Bicycle and pedestrian facilities and circulation elements within planned development.	\$4,130	\$4,130	\$0
Scotts Valley-wide - Greenway Signage	SV-P48	Add signage for neighborhood greenways.	\$20	\$0	\$20
Sky Park Commercial Area Circulation	SV-P11	Construct infrastructure improvement for Skypark commercial area.	\$2,070	\$0	\$2,070
Synchronize Traffic Signals along Mt. Hermon Road	SV-P42	Re-time to coordinate traffic signals along Mt. Hermon Road.	\$100	\$100	\$0
City of Scotts Valley Total			\$87,684	\$27,463	\$60,221
City of Watsonville					
2nd/Maple Ave (Lincoln to Walker) Traffic Calming and Greenway	WAT-P49	Evaluate and if found necessary, add traffic calming/bicycle traffic priority with wayfinding signage to provide access to MBSST and create low stress grid around downtown.	\$25	\$25	\$0
5th St (Lincoln to Walker) - Traffic Calming and Greenway	WAT-P50	Evaluate and if found necessary, add traffic calming/bicycle traffic priority with wayfinding signage to provide access to MBSST and create low stress grid around downtown.	\$25	\$25	\$0
Airport Blvd Improvements (Freedom Blvd to City Limits)	WAT 38	Road widening to accommodate extension of bicycle lane and portion of travel lane, installation of bus pull out, new sidewalks and curb ramps, refuge island, rectangular flashing beacon, striping, and roadway rehab.	\$1,346	\$1,346	\$0
Airport Blvd Modifications (Hanger Way to Ross Ave)	WAT-P34	Reconstruct or repave roadway and bike lanes; repair, replace and install curb, gutter, sidewalk and curb ramps; replace and upgrade signage and striping.	\$600	\$0	\$600
Airport Boulevard Improvements: Westgate/Larkin to Hanger Way	WAT 40	Reconstruct roadway, install new sidewalk, upgrade curb ramps and driveway crossings, install median islands, modify traffic signals to include add'l ped crossing and install rectangular rapid flashing beacon at crosswalk.	\$1,645	\$1,645	\$0
Alley Improvements	WAT-P36	Repair & reconstruct some alleys.	\$60	\$60	\$0
Bicycle Safety Improvements (Various Locations)	WAT 44	Improve existing bicycle facilities by installing new striping, markings and signage in place of the existing and installing new green bike lanes at the approaches on various streets. Work will be done at the following locations: Beach St from Lee Rd to Rodriguez St (1.42 mi); Bridge St from Beck St to East Lake Ave (1.48 mi); Green Valley Rd from Harkins Slough Rd to Corralitos Creek Bridge (1.92 mi); Harkins Slough Rd/Walker St from Green Valley Rd to Riverside Dr (1.73 mi); Rodriguez St from Riverside Dr to Main St (0.92 mi).	\$525	\$375	\$150
Bridge Maintenance	WAT-P35	Maintenance of bridges	\$115	\$115	\$0
Buena Vista/Calabasas/Freedom Connection	WAT-P30	Construction of roadway connection from Buena Vista area to Freedom Blvd. Reconstruct Via Nicola.	\$5,950	\$0	\$5,950

Project Title	ID	Project Description/Scope	Est total cost	Constrained	Unconstrained
Citywide General Maintenance and Operations	WAT-P06	Ongoing maintenance, repair, and operation of road/street system, including bicycle and pedestrian facilities.(Total Need = \$2,600/year, constr=\$1500/yr)	\$65,350	\$41,400	\$23,950
Citywide Pedestrian Facilities	WAT-P15	Construct sidewalks and curb ramps where necessary. This work is usually combined with the annual road rehabilitation and maintenance projects. Avg annual cost: \$100/yr.	\$2,380	\$0	\$2,380
Citywide Transportation Projects	WAT-P24	Lump sum of transportation projects to be identified in the future. Including major rehabilitation and operational improvements (\$1.2M/yr).	\$28,510	\$0	\$28,510
Crestview/Wagner Extension	WAT-P29	Construction of roadway connection from Atkinson Lane area to SR 152. Reconstruct/widen Wagner St.	\$4,750	\$0	\$4,750
Downtown Watsonville Universal Streets	WAT-P59	Evaluate and if feasible, implement universal streets, which are designed for pedestrians and restrict vehicular access, which facilitate new ped access.	\$600	\$600	\$0
East Fifth St (Main St to Lincoln St)	WAT-P39	Repair, replace and install curb, gutter, sidewalk and curb ramps; replace and upgrade signage and striping.	\$300	\$0	\$300
East Lake Ave-(Hwy 152) Widening (Martinelli St-Holohan Rd)	CT-P33	Widen East Lake Ave. (SR 152) from 2 to 4 lanes (Martinelli St-Holohan Rd).	\$1,030	\$0	\$1,030
East Lake/Madison - ped crossing	WAT-P57	Evaluate and if feasible, add pedestrian crossing (HAWK signal if ped volume warrants) at E Lake & Madison for better access to Hall Middle School.	\$300	\$300	\$0
Freedom Blvd (Davis Ave to Green Valley Rd)	WAT-P68	Repair, reconstruct and/or upgrade pavement, bike lanes, sidewalks, transit facilities, signage and striping	\$1,730	\$1,730	\$0
Freedom Blvd (Green Valley Rd to Buena Vista Dr)	WAT-P72	Repair and resurface damaged roadway and bike lanes, replace damaged sidewalks, add pedestrian facilities where none exist.	\$5,000	\$5,000	\$0
Freedom Blvd (Green Valley Rd to Davis) Bicycle and Pedestrian Improvements	WAT-P61	Evaluate and if feasible, install bike treatments (such as buffered and/or painted bike lanes, bike boxes, bike signals) to address speed inconsistency between bicyclists and vehicles. Complete sidewalks, including pedestrian buffer, and pedestrian islands at crossings.	\$300	\$300	\$0
Freedom Blvd Pedestrian Crossings (Airport to Lincoln)	WAT-P62	Evaluate and if feasible, install new and improve existing uncontrolled pedestrian crossings at Roach Road, Davis Avenue, Clifford Lane, Mariposa Avenue, Alta Vista Street, Crestview Drive, Martinelli Street and Marin Street).	\$600	\$600	\$0
Freedom Blvd Reconstruction (Alta Vista to Green Valley)	WAT 45	Remove and replace non-ADA compliant driveways and curb ramps, install high visibility crosswalks, provide sharrows and bicycle signage, upgrade existing bus stop shelter, install new traffic signal at Sydney Ave with pedestrian signal heads, pedestrian actuated traffic signals, audible countdown, pedestrian-level lighting and illumination at crosswalks and reconstruct roadway.	\$3,250	\$2,000	\$1,250
Freedom Blvd Undergrounding	WAT-P38	Underground existing overhead utilities.	\$1,270	\$1,270	\$0
Freedom Blvd/Green Valley Rd Neighborhood Bike/Ped Connections	WAT-P64	Evaluate and if feasible, implement greenway, which gives priority to bicycles and pedestrians on low volume, low speed streets including, pedestrian facilities, way finding and pavement markings, bicycle treatments to connect neighborhoods to goods and services on Freedom Blvd.	\$1,800	\$0	\$1,800
Freedom Boulevard Plan Line	WAT 43	Preparation of a plan line for Freedom Boulevard between Green Valley Road and Buena Vista Drive that delineates multimodal modifications supported by the community.	\$160	\$160	\$0
Green Valley Rd Improvement (Freedom Blvd to City Limit)	WAT-P45	Reconstruct existing roadway, install a median island to encourage safer turning movements, remove and replace existing driveways and curb ramps that do not comply with existing accessibility standards, restripe roadway to provide striping for bike lanes where none exist.	\$2,000	\$0	\$2,000

Project Title	ID	Project Description/Scope	Est total cost	Constrained	Unconstrained
Green Valley Road Reconstruction (Struve Slough-Freedom Blvd)	WAT 42	Reconstruct existing roadway and bikelanes, remove existing asphalt pedestrian path and replace with concrete curb, gutter and sidewalk, remove and replace non-ADA compliant curb ramps and driveways, remove and replace existing signage, striping and loop detectors for traffic signal detectors. Increase sidewalk width consistent with the Complete Streets Guidebook. City may have to reduce existing roadway lane widths in order to provide wider sidewalks; may repave instead of reconstruct roadway or reduce limits of reconstruction based on allocated funds.	\$1,598	\$1,598	\$0
Harkins Slough Rd (Hwy 1 to Green Valley Rd)	WAT-P69	Repair, reconstruct and/or upgrade pavement, bike lanes, sidewalks, transit facilities, signage and striping	\$1,150	\$0	\$1,150
Hillside Ave to Freedom Blvd Ped/Bike Connection	WAT-P60	Evaluate and if feasible, install new bike/ped connection from Carey Avenue to Freedom Boulevard between Roache Road and Green Valley Road to connect neighborhood to goods, services and transit on Freedom Boulevard. Include new crossing from new bicycle/pedestrian facility to east side of Freedom Boulevard.	\$360	\$0	\$360
Kearney/Rodriguez - Ped Crossing	WAT-P53	Evaluate and if found necessary, add pedestrian crossing at Kearney and Rodriguez with traffic calming for access to Radcliffe Elementary.	\$35	\$35	\$0
Lower Watsonville Slough Trail	WAT-P46	Install bicycle/pedestrian trail	\$770	\$770	\$0
Lump Sum Bicycle Projects	WAT-P19	Update the City Bicycle Plan and construction of additional routes and paths (250k/yr).	\$5,950	\$0	\$5,950
Main St - 3 HAWK Signals	WAT-P54	Evaluate and if found necessary, add Hawk signals in 3 locations on Main St.	\$890	\$890	\$0
Main St (Freedom to Riverside) Ped/Bike Enhancements	WAT-P58	Evaluate and if feasible improve ped facilities and bike treatments (such as buffered and/or painted bike lanes, bike boxes, bike signals) and bike boxes and bicycle priority at intersections on Main Street intersections.	\$890	\$890	\$0
Main St Modifications (500 Block: Fifth St to East Lake Ave)	WAT-P40	Repair, replace and install curb, gutter, and curb ramps; replace and upgrade signage and striping. Evaluate and if feasible, provide bike treatments (such as buffered and/or painted bike lanes, bike boxes, bike signals), and buffered sidewalk.	\$710	\$710	\$0
Main St Modifications (City Limit to Lake Ave)	WAT-P47	Repave roadway and bike lanes; repair, replace and install curb, gutter, sidewalk and curb ramps; replace and upgrade signage and striping. Evaluate and if feasible, provide bike treatments (such as buffered and/or painted bike lanes, bike boxes, bike signals) and buffered sidewalks.	\$1,670	\$1,670	\$0
Main St Modifications (East Lake Ave to Freedom Blvd)	WAT-P73	Provide complete streets improvements including but not limited to pedestrian crossings, bicycle facilities, bus stops, parking, sidewalks and traffic management	\$1,000	\$1,000	\$0
Main St. (Hwy 152)/Freedom Blvd Roundabout	WAT 27a	Installation of a roundabout to replace the currently signalized intersection with safety considerations for bike/ped. Caltrans Project ID - 05-0T150.	\$1,500	\$1,500	\$0
Main St/Beach St/Lake Ave Bike Facilities	CT-P38	Bicycle facilities - Main St (GV Rd to Mont Co line), Beach St (Walker to Lincoln) and Lake Ave (Main St to fairgrounds). County/City Project - Cost unknown.	\$0	\$0	\$0
Main/Rodriguez/Union/Brennan (Freedom to Riverside) - Crosswalks	WAT-P55	Evaluate and if found necessary, increase the number of crosswalks on Main St, Rodriguez, and Union/Brennan to aim for 300 ft distance between crossings. Update pattern of crosswalks to block pattern.	\$115	\$115	\$0
MBSST (Coastal Rail Trail): Lee Road, 4000 feet east to City Slough Trail connection	TRL 18L	Construction of 4000-foot long pathway parallel to the railroad tracks: twelve-foot width asphalt (hma). A 500 ft long retaining wall up to 3 ft tall with fence near Lee Road. A drainage structure east of Ohlone Parkway to be modified. Connection to Lee Road shall require installation of pathway or sidewalk to link to the existing sidewalk. At grade crossing at Ohlone Parkway and at a spur line located between Lee Road and Highway 1.	\$1,540	\$1,540	\$0

All Figures in year 2016, '000s (thousands of dollars)

Project Title	ID	Project Description/Scope	Est total cost	Constrained	Unconstrained
MBSST Rail Trail: Walker Street to City Slough Trail connection	TRL 18W	Construction of 2400 ft pedestrian and bicycle path parallel to the existing railroad tracks and within the rail right-of-way. Also includes public outreach and training to improve bicycle and pedestrian safety.	\$860	\$860	\$0
Neighborhood Traffic Plan	WAT-P04	Plan to identify and address concerns regarding speeding, bicycle and pedestrian access and safety, and other neighborhood traffic issues (\$5k/yr).	\$115	\$115	\$0
Neighborhood Traffic Plan Implementation	WAT-P13	Address concerns about traffic complaints through Education, Enforcement, and Engineering solutions. Install traffic calming devices that do not impede bicyclist access (\$20k/yr).	\$470	\$470	\$0
Ohlone Parkway Improvements - Phase 2 (UPRR to West Beach)	WAT-P31	Roadway, pedestrian, and bicycle facilities.	\$600	\$600	\$0
Pajaro Lane to Freedom Blvd Ped/Bike Connection	WAT-P63	Evaluate and if feasible, new bike/ped connection from Pajaro Lane to Freedom Blvd to connect neighborhood to goods, services and transit on Freedom Boulevard. Include new crossing from new bicycle/pedestrian facility to west side of Freedom Boulevard.	\$360	\$0	\$360
Pajaro Valley High School Connector Trail	WAT-P42	Install bicycle/pedestrian trail (this trail connects Pajaro Valley High School to Airport Blvd).	\$710	\$710	\$0
Pennsylvania Dr (Green Valley Rd to Clifford Ave)	WAT-P70	Repair, reconstruct and/or upgrade pavement, bike lanes, sidewalks, transit facilities, signage and striping	\$4,600	\$0	\$4,600
Riverside (Hwy 129) Bike Facilities	CT-P39	Bicycle facilities - Lee to Lakeview Road. County/City Project -Cost Unknown.	\$0	\$0	\$0
Rodriguez St (Main St to Riverside)-Buffered Bike Lane	WAT-P51	Evaluate and if found necessary, improve bike lane striping, add buffered lanes on Rodriguez St to delineate bike lane from vehicle parking and traffic.	\$12	\$12	\$0
Union/Brennan (Freedom to Riverside) - Sharrows	WAT-P52	Evaluate and if found necessary, add sharrows to Union/Brennan.	\$12	\$12	\$0
Upper Struve Slough Trail	WAT-P65	Construction of 450 foot long pedestrian/bicycle path along upper Struve Slough from Green Valley Road to Pennsylvania Drive. The trail shall consist of a twelve-foot wide by one foot deep aggregate base section with the center eight feet covered with a chip seal. Additional improvements include installing a 130-length of modular concrete block retaining wall, reinforcing a 160-foot length of slough embankment with rock slope protection and installing a 175-foot long by eight foot wide boardwalk.	\$530	\$530	\$0
Upper Watsonville Slough Trail	WAT-P43	Install bicycle/pedestrian trail.	\$770	\$770	\$0
Walker St Modifications (Beach St to Watsonville Slough)	WAT-P48	Repave roadway and bike lanes; repair, replace and install curb, gutter, sidewalk and curb ramps; replace and upgrade signage and striping	\$3,200	\$0	\$3,200
Watsonville Shuttle	WAT-P27	Year round public transit service.	\$300	\$0	\$300
Watsonville-wide HOV priority	WAT-P56	Evaluate HOV priority at signals and HOV queue bypass.	\$60	\$60	\$0
West Beach St (Lee Rd to Ohlone Parkway)	WAT-P66	Repair, reconstruct and/or upgrade pavement, bike lanes, sidewalks, transit facilities, signage and striping	\$2,900	\$0	\$2,900
West Beach St (Ohlone Parkway to Walker St)	WAT-P67	Repair, reconstruct and/or upgrade pavement, bike lanes, sidewalks, transit facilities, signage and striping	\$4,600	\$0	\$4,600
West Lake Ave Modifications (Main St to Rodriguez St)	WAT-P41	Repair, replace and install curb, gutter, sidewalk and curb ramps; replace and upgrade signage and striping	\$240	\$0	\$240
City of Watsonville Total			\$168,138	\$71,808	\$96,330

Project Title	ID	Project Description/Scope	Est total cost	Constrained	Unconstrained
Consolidated Transportation					
Countywide Specialized Transportation	CTSA-P01	Non-ADA mandated paratransit and other specialized transportation service for seniors and people with disabilities. Includes medical service rides, Elderday, out-of-county rides, Sr. Meal Site, Taxi Script, and same day rides etc. Current avg annual need \$2.58M. Constrained=\$2M.	\$56,700	\$46,000	\$10,700
Lift Line Maintenance/Operations Center	CTSA-P02	Construct a permanent maintenance center/consolidated operations facility for paratransit program (currently Lift Line).	\$15,500	\$0	\$15,500
Medical Specialized Transportation for Veterans	CTSA-P06	Non-emergency medical transportation for veterans	\$6,500	\$0	\$6,500
Medically Fragile Specialized Transportation	CTSA-P04	Non-emergency transportation service for medically fragile individuals. Includes operations and capital.	\$5,000	\$0	\$5,000
Non-ADA Paratransit Service Expansion	CTSA-P03	Expansion of non-ADA paratransit system to meet needs of growing elderly and disabled populations. May include pre/post natal transport to medical appointments.	\$21,700	\$0	\$21,700
Consolidated Transportation Total			\$105,400	\$46,000	\$59,400
County Health Services Agency					
Santa Cruz County Health Service Agency - Traffic Safety Education	CO 50	Ongoing education program to decrease the risk and severity of collisions. Includes bicycle and pedestrian programs: Community Traffic Safety Coalition, South County coalition, and Ride n' Stride Bicycle/Pedestrian Education Program.	\$6,500	\$2,200	\$4,300
County Health Services Agency Total			\$6,500	\$2,200	\$4,300
County of Santa Cruz					
26th Ave Improvements (entire length-Portola Dr to end)	CO-P31a	Roadway and roadside improvements on various Major Collectors including sidewalks, bike lanes, transit turnouts, left turn pockets, merge lanes and intersection improvements.	\$2,580	\$0	\$2,580
26th to 30th (at Lode/Quartz) Bike/Ped Connection	CO-P78	New bike/ped connection from Lode and Quartz to Moran Trail, which connects to 30th.	\$520	\$0	\$520
37th/38th Ave (Brommer to Eastcliff) Multimodal Circulation Improvements and Greenway	CO-P27a	Evaluate and if feasible improve vehicle and transit access on 38th Avenue from East Cliff to Brommer and develop greenway on 37th Avenue from East Cliff to Portola. Roadway improvements may include roadway and roadside improvements including sidewalks, bike treatments (such as buffered and/or painted bike lanes, bike boxes, bike signals), transit turnouts, left turn pockets, and intersection improvement.	\$2,070	\$570	\$1,500
41st Ave Improvements Phase 2 (Hwy 1 Interchange to Soquel Dr)	CO-P26a	Roadway and roadside improvements including bike lanes, sidewalks, transit turnouts, left turn pockets, merge lanes and intersection improvements.	\$1,240	\$340	\$900
Airport Blvd Improvements (City limits to Green Valley Rd)	CO-P02	Major rehab, addition of bike lanes, transit facilities, merge lanes, intersection improvements, sidewalks, drainage, and landscaping.	\$1,240	\$1,240	\$0
Alba Rd Improvements (Empire Grade to State Hwy 9)	CO-P30b	Roadwork includes major rehabilitation and maintenance of the road and roadsides.	\$1,760	\$0	\$1,760
Amesti Road Multimodal Improvements (Green Valley to Brown Valley Rd)	CO-P03	Roadway rehab and reconstruction, left turn pockets at Green Valley Road, Pioneer Road/Varni Road. Add bike lanes, transit turnouts, sidewalks, merge lanes, landscaping, and intersection improvements.	\$6,200	\$600	\$5,600
Aptos Beach Dr Improvements (Esplanade to Rio Del Mar Blvd)	CO-P27b	Roadway and roadside improvements on various Major Collectors including bike lanes, transit turnouts, left turn pockets, merge lanes and intersection improvement.	\$1,240	\$0	\$1,240

Project Title	ID	Project Description/Scope	Est total cost	Constrained	Unconstrained
Aptos Village Plan Improvements	CO 64	Modifications for ped, bike, bus and auto traffic. Add pedestrian facilities and drainage infrastructure on both sides of Soquel Dr; improve bike lanes; new bike parking; new bus pullout and shelter on north side. Trout Gulch: Replace sidewalks with standard sidewalks on east side, ADA upgrades to west side sidewalks. Install traffic signals at Soquel Dr/Aptos Creek Rd (CO 64c) & Soquel/Trout Gulch. Left turn lanes on Soquel at new street - Parade St and at Aptos Creek Road. RR crossing modifications - new crossing arms, concrete panels for vehicle and pedestrian crossings. New RR xing at Parade St. Phase 1: Trout Gulch Rd improvements w/traffic signal and upgraded RR xg at Soquel Dr. Pavement overlay of Soquel Dr (Spreckels to Trout Gulch) and a portion of Aptos Creek Road.	\$4,100	\$4,100	\$0
Beach Road Improvements (City limits to Pajaro Dunes)	CO-P26b	Roadway and roadside improvements including bike lanes, sidewalks, transit turnouts, left turn pockets, merge lanes and intersection improvements.	\$1,240	\$340	\$900
Bean Creek Rd Improvements (Scotts Valley City Limits to Glenwood Dr)	CO-P28a	Roadway and roadside improvements on various Minor Arterials including addition of bike lanes, transit turnouts, left turn pockets, merge lanes and intersection improvements. Roadwork includes major rehabilitation and maintenance of the road.	\$1,760	\$485	\$1,275
Bear Creek Road Improvements (Hwy 9 to Hwy 35)	CO-P04	Major rehab, add bike lanes, turnouts, merge lanes, and intersection improvements. Some landscaping and drainage improvements also.	\$4,750	\$250	\$4,500
Bonita Dr Improvements (entire length)	CO-P29b	Improvements of roadways and roadsides on various Minor Collectors including addition of bike lanes, transit turnouts, left turn pockets, merge lanes and intersection improvements. Roadwork includes major rehabilitation and maintenance of the road.	\$1,240	\$0	\$1,240
Bonny Doon Rd Improvements (Hwy 1 to Pine Flats Rd)	CO-P43	Construction of a Class 1 bike lane facility, addition of transit stops, intersection improvements, major road rehabilitation, road maintenance, and drainage improvements.	\$8,260	\$0	\$8,260
Bowker Rd Improvements (entire length- Buena Vista Dr to Freedom Blvd)	CO-P33a	Roadway and roadside improvements on various Minor Collectors including addition of bike lanes, transit turnouts, left turn pockets, merge lanes and intersection improvements. Roadwork includes major rehabilitation and maintenance of the road.	\$620	\$0	\$620
Branciforte Dr Improvements (City of Santa Cruz to Vine Hill Rd)	CO-P30c	Improvements of roadways and roadsides on various Major Arterials including addition of bike lanes, transit turnouts, left turn pockets, merge lanes and intersection improvements. Roadwork includes major rehabilitation and maintenance of the road and roadsides.	\$1,760	\$0	\$1,760
Branciforte Drive Chip Seal Project (Granite Creek Rd to SC city limits - 1.91mi)	CO 82	Roadway rehabilitation: Digouts, Rubberized Chip Seal, and restriping of a portion of Branciforte Drive	\$433	\$433	\$0
Branciforte Drive Road Recycle & Overlay (PM 2.4 to Granite Ck Rd)	CO 79	Pavement recycling, asphalt overlay, and restriping of 0.62 miles of Branciforte Drive from Granite Creek to PM 2.4 (0.62 mil). To be constructed with CO 81 (Granite Creek).	\$431	\$431	\$0
Brown Valley Rd Improvements (Corralitos Rd to Redwood Rd)	CO-P26d	Roadway and roadside improvements including bike lanes, sidewalks, transit turnouts, left turn pockets, merge lanes and intersection improvements.	\$1,240	\$340	\$900
Buena Vista Rd Improvements (San Andreas to Freedom Blvd)	CO-P26e	Roadway and roadside improvements including bike lanes, sidewalks, transit turnouts, left turn pockets, merge lanes and intersection improvements.	\$3,000	\$825	\$2,175
Bulb Ave Road Improvements (Garden St to Capitola City Limits)	CO-P65	Roadway and roadside improvements including curb, gutter, sidewalk, bike lanes, left turn lanes, intersection improvements and roadway rehabilitation.	\$770	\$0	\$770
Cabrillo College Dr Improvements (Park Ave to Twin Lakes Church)	CO-P30d	Improvements of roadways and roadsides on various Major Arterials including addition of bike lanes, transit turnouts, left turn pockets, merge lanes and intersection improvements. Roadwork includes major rehabilitation and maintenance of the road and roadsides.	\$1,240	\$240	\$1,000
Capital improvement projects consistent with the Sustainable Santa Cruz County Plan	CO-P96	Construct associated multi-modal infrastructure improvements associated with the Sustainable Santa Cruz County Plan	\$22,000	\$11,000	\$11,000

Project Title	ID	Project Description/Scope	Est total cost	Constrained	Unconstrained
Capitola Rd Ext Improvements (Capitola Rd to Soquel Ave)	CO-P31b	Roadway and roadside improvements on various Major Collectors including bike lanes, transit turnouts, left turn pockets, merge lanes and intersection improvements.	\$1,240	\$0	\$1,240
Carol Way/Lompico Creek Bridge Replacement	CO-P49	Replace existing single span-two lane bridge construction of steel girders and long deck with new 30 ft wide single span flat sale concrete bridge. Include (2) 11 ft lanes and (2) 4 ft shoulders.	\$1,240	\$0	\$1,240
Cassery Rd Improvements (Hwy 152 to Green Valley Rd)	CO-P26g	Roadway and roadside improvements including bike lanes, sidewalks, transit turnouts, left turn pockets, merge lanes and intersection improvements.	\$770	\$208	\$562
Cathedral Dr Improvements (entire length)	CO-P33b	Roadway and roadside improvements on Minor Collector. Roadwork includes major rehabilitation and maintenance of the road.	\$620	\$0	\$620
Center Ave/Seacliff Dr Improvements (Broadway to Aptos Beach Dr)	CO-P26h	Roadway and roadside improvements including bike lanes, sidewalks, transit turnouts, left turn pockets, merge lanes and intersection improvements.	\$1,240	\$340	\$900
Chanticleer Ave Improvements (Hwy 1 to Soquel Dr)	CO-P26i	Roadway and roadside improvements including bike lanes, sidewalks, drainage and intersection improvements.	\$1,240	\$340	\$900
Cliff Dr Improvements (Rio Del Mar to Railroad Crossing)	CO-P29c	Improvements of roadways and roadsides on various Minor Collectors including addition of bike lanes, transit turnouts, left turn pockets, merge lanes and intersection improvements. Roadwork includes major rehabilitation and maintenance of the road.	\$620	\$0	\$620
Clubhouse Drive Improvements (Sumner Av to Rio Del Mar Blvd)	CO-P32a	Road rehabilitation and maintenance. Roadside improvements: left lane pockets, sidewalks, bike lanes and transit turnouts.	\$1,450	\$0	\$1,450
College Road Improvements (Hwy 152 to Lakeview Rd)	CO-P23	Major road rehab, add left turn pocket at Cutter Drive. Also add bike lanes, transit turnouts, sidewalks, landscaping. Drainage improvements, merge lanes, and intersection improvements may also be needed.	\$1,760	\$0	\$1,760
Commercial Way Improvements (Mission Dr. to Soquel Dr.)	CO-P28c	Roadway and roadside improvements on various Minor Arterials including addition of bike lanes, transit turnouts, left turn pockets, merge lanes and intersection improvements. Roadwork includes major rehabilitation and maintenance of the road.	\$620	\$170	\$450
Corcoran Ave Improvements (Alice St to Felt St)	CO-P27c	Roadway and roadside improvements on various Major Collectors including bike lanes, transit turnouts, left turn pockets, merge lanes and intersection improvement.	\$620	\$150	\$470
Corralitos Road Rehab and Improvements (Freedom Blvd to Hames Rd)	CO-P08	Major rehab, transit, bike, and ped facilities. May also include drainage, merge lanes, landscaping and intersection improvements.	\$620	\$620	\$0
County wide guardrail	CO-P97	Install guardrail on County roads	\$15,000	\$15,000	\$0
Countywide ADA Access Ramps	CO-P37	Construction of handicapped access ramps countywide.	\$1,240	\$620	\$620
Countywide Bike Projects	CO-P71	Bike projects based on needs identified through the Santa Cruz County Bicycle Plan and plan updates. These are in addition to projects listed individually in the RTP.	\$4,130	\$0	\$4,130
Countywide General Road Maintenance and Operations	CO-P35	Ongoing maintenance, repair, and operation of road/street system within the unincorporated areas of the county.	\$495,000	\$446,857	\$48,143
Countywide Sidewalks	CO-P41	Install sidewalks.	\$72,310	\$7,000	\$65,310
Day Valley Rd Improvements (entire length- Freedom Blvd to Valencia Rd)	CO-P31c	Roadway and roadside improvements on various Major Collectors including bike lanes, transit turnouts, left turn pockets, merge lanes and intersection improvements.	\$1,240	\$0	\$1,240
East Cliff (26th to Moran Way) Sidewalk Improvement	CO-P77	Install sidewalk from 26th south to link to Moran Way.	\$410	\$0	\$410

Project Title	ID	Project Description/Scope	Est total cost	Constrained	Unconstrained
East Cliff Dr Pedestrian Pathway (7th-12th Ave)	CO-P50	Construct pedestrian pathway on East Cliff.	\$1,760	\$1,760	\$0
East Cliff Drive Cape Seal (12th-17th)	CO 66	Pavement maintenance, isolated section digout and asphalt replacement and cape seal on entire roadway.	\$230	\$230	\$0
East Cliff Drive Improvements (32nd Ave to Harbor)	CO-P09	Roadway rehab, add left turn pockets at 26th and 30th Ave, fill gaps in bikeways and sidewalks, add transit turnouts, intersection improvements. Some landscaping and drainage improvements.	\$4,750	\$1,500	\$3,250
East Zayante Rd Improvements (Lompico Rd to just before Summit Rd)	CO-P26j	Roadway and roadside improvements including bike lanes, sidewalks, transit turnouts, left turn pockets, merge lanes and intersection improvements.	\$1,760	\$485	\$1,275
Either Way Ln Bridge Replacement Project	CO-P88	The project will consist of completely replacing the existing narrow one lane structure and roadway approaches with a two lane clear span precast voided concrete slab bridge and standard bridge approaches.	\$2,180	\$2,180	\$0
El Dorado Ave Road Improvements (Capitola Rd to RR)	CO-P67	Roadway and roadside improvements including curb, gutter, buffered sidewalk, bike treatments (such as buffered and/or painted bike lanes, bike boxes, bike signals), left turn lanes, intersection improvements and roadway rehabilitation.	\$1,810	\$0	\$1,810
El Rancho Dr Improvements (Mt. Hermon/Hwy 17 to SC city limits)	CO-P26k	Roadway and roadside improvements including bike lanes, sidewalks, transit turnouts, left turn pockets, merge lanes and intersection improvements.	\$2,380	\$655	\$1,725
Empire Grade Improvements	CO-P10	Road rehab and maintenance, left turn pocket at Felton Empire Road, add bike lanes, transit facilities, some sidewalks, landscaping. Drainage improvements, merge lanes, and intersection improvements may also be needed.	\$4,750	\$1,190	\$3,560
Eureka Canyon Rd Improvements (Hames Rd to Buzzard Lagoon Rd)	CO-P26l	Roadway and roadside improvements including bike lanes, sidewalks, transit turnouts, left turn pockets, merge lanes and intersection improvements.	\$2,380	\$655	\$1,725
Felton Empire Road Improvements (entire length to State Hwy 9)	CO-P28d	Roadway and roadside improvements on various Minor Arterials including addition of bike lanes, transit turnouts, left turn pockets, merge lanes and intersection improvements. Roadwork includes major rehabilitation and maintenance of the road.	\$2,380	\$655	\$1,725
Fern Dr @ San Lorenzo River Bridge Replacement Project	CO-P90	The project will consist of completely replacing the existing three span single lane structure and roadway approaches with a new two lane clear span reinforced concrete box girder bridge and standard bridge approaches.	\$2,830	\$2,830	\$0
Forest Hill Dr @ Bear Creek Bridge Replacement Project	CO-P86	The Project will consist of completely replacing existing steel girder bridge crossing Bear Creek with a new precast concrete voided slab bridge.	\$2,050	\$0	\$2,050
Freedom Blvd Multimodal Improvements (Bonita Dr to City of Watsonville)	CO-P11	Add bike lanes, sidewalks on some segments, transit turnouts, signalization. Left turn pockets at Bowker, Day Valley, White Rd, and Corralitos Rd. Also includes merge lanes, intersection improvements, landscaping, major rehabilitation and maintenance, drainage improvements.	\$3,100	\$775	\$2,325
Freedom Blvd Pavement Preservation (Hwy 1 to Pleasant Vly Rd)	CO 74	Rehabilitate the roadway surface.	\$1,430	\$1,430	\$0
Glen Arbor Rd Improvements (State Hwy 9 to State Hwy 9)	CO-P30f	Improvements of roadways and roadsides on various Major Arterials including addition of bike lanes, transit turnouts, left turn pockets, merge lanes and intersection improvements. Roadwork includes major rehabilitation and maintenance of the road and roadsides.	\$1,240	\$0	\$1,240
Glen Arbor Road Recycle, Overlay, & Chip Seal (SR 9-Quail Hollow)	CO 80	Pavement recycling, asphalt overlay, chip seal, and restriping 0.52 miles of Glen Arbor Road from Hwy 9 at bridge to Quail Hollow Rd. The project will also include a subdrain at a point where a natural spring is causing subgrade destabilization and repairs rutting damage adjacent to bus stops.	\$467	\$467	\$0

Project Title	ID	Project Description/Scope	Est total cost	Constrained	Unconstrained
Glen Canyon Rd Improvements (Branciforte Dr to City of Scotts Valley)	CO-P26m	Roadway and roadside improvements including bike lanes, sidewalks, transit turnouts, left turn pockets, merge lanes and intersection improvements.	\$5,990	\$1,640	\$4,350
Glen Coolidge Drive/Hwy 9 Bike Path	CO-P40	Class 1 bike facility from Glen Coolidge Dr to Hwy 9 to provide eastern access to UCSC.	\$2,380	\$0	\$2,380
Glenwood Cutoff General Improvements (Glenwood Dr to Hwy 17)	CO-P61	Roadway and roadside improvements including bike lanes, left turn lanes, intersection improvements and roadway rehabilitation.	\$3,100	\$0	\$3,100
Glenwood Dr. Improvements (Scotts Valley city limits to State Hwy 17)	CO-P26n	Roadway and roadside improvements including bike lanes, sidewalks, transit turnouts, left turn pockets, merge lanes and intersection improvements.	\$3,000	\$825	\$2,175
Graham Hill Road Multimodal Improvements (City of SC to Hwy 9)	CO-P12	Bike lanes, sidewalks, transit turnouts, left turn pockets, merge lanes, traffic signals. Major rehabilitation and maintenance. Drainage improvements. Signal upgrade at SR9.	\$7,020	\$1,755	\$5,265
Granite Creek Rd Improvements (Branciforte Dr to City of Scotts Valley)	CO-P30h	Improvements of roadways and roadsides on various Major Arterials including addition of bike lanes, transit turnouts, left turn pockets, merge lanes and intersection improvements. Roadwork includes major rehabilitation and maintenance of the road and roadsides.	\$1,760	\$0	\$1,760
Granite Creek Road Recycle & Overlay - Part of CO 79B	CO 81	Pavement recycling, asphalt overlay, and restriping of 1.85 miles of Granite Creek Road from Scotts Valley city limits to PM 0.56.	\$1,100	\$1,100	\$0
Green Valley Rd Bridge Replacement Project	CO-P85	The project will consist of completely replacing the existing two lane structure and roadway approaches with a two lane clear span concrete slab bridge and standard bridge approaches.	\$2,110	\$2,110	\$0
Green Valley Rd Pedestrian Safety Project	CO 42b	Build 6-foot wide sidewalk with some curb and gutter on NW side of Green Valley Rd from Airport Blvd to Amesti Rd (1800 ft).	\$390	\$390	\$0
Green Valley Road Improvements	CO-P13	Add two-way left turn lanes from Mesa Verde to Pinto Lake on Green Valley Rd. Also includes some road rehab and maintenance, bike lanes, sidewalks, transit facilities, landscaping, and merge lanes.	\$4,130	\$1,030	\$3,100
Hames Rd Improvements (entire length-Freedom Blvd to Eureka Canyon Rd)	CO-P32b	Road rehab and maint. Roadside improvements--left lane pockets, sidewalks, bike lanes and transit turnouts.	\$3,620	\$0	\$3,620
Harkins Slough Rd. Improvements (entire length-Buena Vista Dr to State Hwy 1)	CO-P32c	Road rehab and maint. Roadside improvements--left lane pockets, sidewalks, bike lanes and transit turnouts.	\$1,760	\$0	\$1,760
Harper St Improvements (entire length-El Dorado Ave to ECM)	CO-P33d	Roadway and roadside improvements on various Minor Collectors including addition of bike lanes, transit turnouts, left turn pockets, merge lanes and intersection improvements. Roadwork includes major rehabilitation and maintenance of the road.	\$1,240	\$310	\$930
Highway 17 To Soquel Corridor Chip Seal Project	CO 83	Roadway rehabilitation: Digouts, Chip Seal, and restriping of Vine Hill Rd (Hwy 17 to B40), Branciforte Dr (Vine Hill to PM 0.7), Mt. View Rd (B40-N. Rodeo Gulch), N. Rodeo Gulch Rd (Mt. View-PM 1.97), Laurel Rd (N. Rodeo-Soquel San Jose Rd), and Soquel-San Jose Rd. (Laurel Glen to Dawn Lane) - 9.90 mi.	\$1,881	\$881	\$1,000
Huntington Dr Improvements (Monroe Ave to Valencia Rd.)	CO-P32d	Road rehab and maint. Roadside improvements--left lane pockets, sidewalks, bike lanes and transit turnouts.	\$2,380	\$0	\$2,380
Hwy 152/Holohan - College Intersection	CO 84	Intersection capacity enhancements and signal modifications, pedestrian and bicycle safety improvements. Add sidewalks and bicycle lanes on Holohan Rd, an additional left-turn lane from Holohan to EB Hwy 152, sidewalk on north side of Hwy 152 from Holohan to Corralitos Creek bridge, adds crosswalks and speed feedback signs.	\$3,150	\$3,150	\$0
Jamison Cr Rd Improvements (entire length-Empire Grade to Hwy 236)	CO-P32e	Road rehab and maint. Roadside improvements--left lane pockets, sidewalks, bike lanes and transit turnouts.	\$620	\$0	\$620

Project Title	ID	Project Description/Scope	Est total cost	Constrained	Unconstrained
La Madrona Dr Improvements (El Rancho Dr to City of Scotts Valley)	CO-P14	Bike lanes, sidewalks, transit turnouts, left turn pockets at Sims Road, Highway 17, and El Rancho Road), merge lanes, and intersection improvements. Also includes major rehabilitation, drainage and maintenance.	\$3,620	\$905	\$2,715
Lakeview Road Improvements	CO-P15	Major road rehab, add left turn pocket at College Road, intersection improvements at Carlton Rd. Also add bike lanes, new transit facilities, landscaping. Drainage improvements, merge lanes, and intersection improvements may also be needed.	\$1,240	\$0	\$1,240
Larkin Valley Rd Improvements (San Andreas Rd to Buena Vista Dr)	CO-P30i	Improvements of roadways and roadsides on various Major Arterials including addition of bike lanes, transit turnouts, left turn pockets, merge lanes and intersection improvements. Roadwork includes major rehabilitation and maintenance of the road and roadsides.	\$620	\$0	\$620
Larkspur Bridge @San Lorenzo River	CO-P91	The project will consist of completely replacing the existing narrow one lane structure and roadway approaches with a two lane bridge and standard bridge approaches.	\$3,930	\$3,930	\$0
Laurel Glen Rd Improvements (Soquel-San Jose Rd to Mt. View/Rodeo Gulch Rd)	CO-P30j	Improvements of roadways and roadsides on various Major Arterials including addition of bike lanes, transit turnouts, left turn pockets, merge lanes and intersection improvements. Roadwork includes major rehabilitation and maintenance of the road and roadsides.	\$1,240	\$0	\$1,240
Ledyard Way Improvements (entire length- Soquel Dr to Soquel Dr)	CO-P31d	Roadway and roadside improvements on various Major Collectors including bike lanes, transit turnouts, left turn pockets, merge lanes and intersection improvements.	\$620	\$0	\$620
Lockhart Gulch Improvements (Scotts Valley City limits to end)	CO-P31e	Roadway and roadside improvements on various Major Collectors including bike lanes, transit turnouts, left turn pockets, merge lanes and intersection improvements.	\$1,240	\$0	\$1,240
Lockwood Lane Improvements (Graham Hill Rd to SV limits)	CO-P24	Major road rehab, add bicycle lanes, sidewalks, some transit facilities, landscaping, and intersection improvements.	\$881	\$243	\$638
Lompico Rd Bridge Replacement	CO-P95	The project will consist of replacing existing steel stringer bridge with a reinforced concrete slab bridge	\$1,860	\$0	\$1,860
Lompico Rd Improvements (E Zayante Rd. to end)	CO-P30k	Improvements of roadways and roadsides on various Major Arterials including addition of bike lanes, transit turnouts, left turn pockets, merge lanes and intersection improvements. Roadwork includes major rehabilitation and maintenance of the road and roadsides.	\$620	\$0	\$620
Maciel Ave Improvements (Capitola Rd to Mattison Ln)	CO-P29e	Improvements of roadways and roadsides on various Minor Collectors including addition of bike lanes, transit turnouts, left turn pockets, merge lanes and intersection improvements. Roadwork includes major rehabilitation and maintenance of the road.	\$1,450	\$400	\$1,050
Main St Improvements (Porter St to Cherryvale Ave)	CO-P27e	Roadway and roadside improvements on Major Collector including bike lanes, transit turnouts, left turn pockets, merge lanes and intersection improvement.	\$1,760	\$1,760	\$0
Manfre Rd Improvements (entire length- Larkin Valley Rd to Buena Vista Dr)	CO-P33e	Roadway and roadside improvements on various Minor Collectors including addition of bike lanes, transit turnouts, left turn pockets, merge lanes and intersection improvements. Roadwork includes major rehabilitation and maintenance of the road.	\$620	\$0	\$620
Mar Monte Ave Improvements (San Andreas Rd to State Hwy 1)	CO-P30l	Improvements of roadways and roadsides on various Major Arterials including addition of bike lanes, transit turnouts, left turn pockets, merge lanes and intersection improvements. Roadwork includes major rehabilitation and maintenance of the road and roadsides.	\$620	\$0	\$620
Mar Vista Dr Improvements (entire length- just before Seacliff Dr to Soquel Dr)	CO-P33f	Roadway and roadside improvements on various Minor Collectors including addition of bike lanes, buffered sidewalks, transit turnouts, left turn pockets, merge lanes and intersection improvements. Roadwork includes major rehabilitation and maintenance of the road.	\$300	\$0	\$300
Mattison Ln Improvements (Chanticleer Ave to Soquel Ave)	CO-P26p	Roadway and roadside improvements including bike lanes, sidewalks, transit turnouts, left turn pockets, merge lanes and intersection improvements.	\$1,450	\$400	\$1,050

Project Title	ID	Project Description/Scope	Est total cost	Constrained	Unconstrained
McGregor Dr Improvements (Capitola city limits to Searidge Rd)	CO-P33g	Roadway and roadside improvements on various Minor Collectors including addition of bike lanes, transit turnouts, left turn pockets, merge lanes and intersection improvements. Roadwork includes major rehabilitation and maintenance of the road.	\$1,240	\$0	\$1,240
Mesa Dr Improvements (Vienna Drive to Ledyard Way)	CO-P31f	Roadway and roadside improvements on various Major Collectors including bike lanes, transit turnouts, left turn pockets, merge lanes and intersection improvements.	\$1,240	\$0	\$1,240
Mill St Improvements (entire length)	CO-P27f	Roadway and roadside improvements on various Major Collectors including bike lanes, transit turnouts, left turn pockets, merge lanes and intersection improvement.	\$360	\$360	\$0
Mountain View Rd Improvements (Branciforte Dr to Rodeo Gulch Rd)	CO-P27g	Roadway and roadside improvements on various Major Collectors including bike lanes, transit turnouts, left turn pockets, merge lanes and intersection improvement.	\$1,240	\$0	\$1,240
Mt. Hermon Rd. Improvements (Lockhart Gulch to Graham Hill Rd)	CO-P26q	Roadway and roadside improvements including bike lanes, sidewalks, transit turnouts, left turn pockets, merge lanes and intersection improvements.	\$3,000	\$825	\$2,175
Murphy Crossing Improvements	CO-P39	Bikeway on Murphy Crossing (Hwy 129 to Monterey Co line), major rehabilitation and maintenance of road, drainage improvements may also be needed.	\$1,240	\$0	\$1,240
Opal Cliff Dr Improvements (41st Av to Capitola City Limits)	CO-P31g	Roadway, roadside and intersection improvements including sidewalks, bike treatments (such as buffered and/or painted bike lanes), designed to accommodate the number of users and link to East Cliff Drive.	\$1,240	\$290	\$950
Pajaro River Bike Path System	CO-P38	Construction of a Class 1 bike path along the levees and a Class 2 bikeway on Thurwatcher Road and Beach Road.	\$9,500	\$2,500	\$7,000
Paul Minnie Ave. Improvements (Rodriguez St to Soquel Ave)	CO-P29f	Improvements of roadways and roadsides on various Minor Collectors including addition of bike lanes, transit turnouts, left turn pockets, merge lanes and intersection improvements. Roadwork includes major rehabilitation and maintenance of the road.	\$1,240	\$340	\$900
Paul Sweet Road Improvements (Soquel Dr to end)	CO-P22	Major road rehab and maintenance. Also adds bike lanes, sidewalks, landscaping. Drainage improvements, merge lanes, and intersection improvements, and new transit facilities may also be needed.	\$1,240	\$310	\$930
Paulsen Rd Improvements (Green Valley Rd to Whiting Rd)	CO-P27h	Roadway and roadside improvements on various Major Collectors including bike lanes, transit turnouts, left turn pockets, merge lanes and intersection improvement.	\$1,240	\$240	\$1,000
Pine Flat Rd Improvements (Bonny Doon Rd to Empire Grade Rd)	CO-P28f	Roadway and roadside improvements on various Minor Arterials including addition of bike lanes, transit turnouts, left turn pockets, merge lanes and intersection improvements. Roadwork includes major rehabilitation and maintenance of the road.	\$2,380	\$655	\$1,725
Pinehurst Dr Improvements (entire length)	CO-P27i	Roadway and roadside improvements on various Major Collectors including bike lanes, transit turnouts, left turn pockets, merge lanes and intersection improvement.	\$880	\$180	\$700
Pioneer Rd Improvements (Amesti Rd to Green Valley Rd)	CO-P31h	Roadway and roadside improvements on various Major Collectors including bike lanes, transit turnouts, left turn pockets, merge lanes and intersection improvements.	\$880	\$0	\$880
Polo Dr Improvements (Soquel Dr to end)	CO-P29g	Improvements of roadways and roadsides on various Minor Collectors including addition of bike lanes, transit turnouts, left turn pockets, merge lanes and intersection improvements. Roadwork includes major rehabilitation and maintenance of the road.	\$1,450	\$0	\$1,450
Porter St Improvements (Soquel Dr to Paper Mill Rd)	CO-P26r	Roadway and roadside improvements including buffered sidewalks and bicycle treatments (such as buffered and/or painted bike lanes, bike boxes, bike signals) to address speed inconsistency between bicyclists and vehicles, transit turnouts, left turn pockets, merge lanes and intersection improvements.	\$1,240	\$340	\$900
Quail Hollow Rd Bridge Replacement Project	CO-P82	The project will consist of completely replacing the existing two lane structure and roadway approaches with a two lane clear span concrete bridge and standard bridge approaches.	\$2,430	\$0	\$2,430

Project Title	ID	Project Description/Scope	Est total cost	Constrained	Unconstrained
Quail Hollow Rd Improvements (entire length- East Zayante to Glen Arbor Rd)	CO-P32f	Road rehab and maint. Roadside improvements--left lane pockets, sidewalks, bike lanes and transit turnouts.	\$830	\$0	\$830
Rancho Rio Ave @ Newell Creek Bridge Replacement Project	CO-P87	The project will consist of completely replacing the existing one lane structure and roadway approaches with a two lane clear span concrete slab bridge and standard bridge approaches.	\$1,730	\$0	\$1,730
Redwood Lodge Rd (Entire Length)	CO-P51	Roadway and roadside improvements including curb, gutter, sidewalk, bike lanes, left turn lanes, intersection improvements and roadway rehabilitation.	\$3,100	\$0	\$3,100
Redwood Rd Bridge Replacement Project	CO-P89	The project will consist of completely replacing the existing steel army tread way bridge crossing a tributary of Brown's Creek on Redwood Road with a reinforced concrete slab bridge and standard bridge approaches.	\$1,310	\$1,310	\$0
Rio Del Mar Blvd Improvements (Esplanade to Soquel Dr)	CO-P30n	Improvements of roadways and roadsides on various Major Arterials including addition of bike lanes, sidewalks, transit turnouts, left turn pockets, merge lanes and intersection improvements. Roadwork includes major rehabilitation and maintenance of the road and roadsides.	\$3,000	\$725	\$2,275
Rodeo Gulch Rd Improvements (So & North: Mt. View/Laurel Glen Rd to Hwy 1)	CO-P31i	Roadway and roadside improvements on various Major Collectors including bike lanes, transit turnouts, left turn pockets, merge lanes and intersection improvements.	\$1,760	\$0	\$1,760
Roland Dr Improvements (30th to 35th)	CO-P31j	Roadway and roadside improvements and implementation of greenway, which gives priority to bicycles and pedestrians on low volume, low speed streets including, pedestrian facilities, way finding and pavement markings, bicycle treatments to connect to new bike/ped connection to 41st.	\$880	\$0	\$880
San Lorenzo River Valley Trail	CO-P46	15 mile, paved multi-use path for bicyclists and pedestrians from Boulder Creek to Santa Cruz.	\$25,830	\$0	\$25,830
San Lorenzo Valley Trail: Hwy 9 - Downtown Felton Bike Lanes & Sidewalks	CO-P46a	Install sidewalks and bicycle lanes on Hwy 9 through downtown Felton.	\$2,270	\$2,270	\$0
San Lorenzo Valley Trail: Hwy 9 - North Felton Bike Lanes & Sidewalks	CO-P46b	Install sidewalk/pedestrian path on west side, shoulder widening to 5' for bicycle lanes from Felton-Empire/Graham Hill Rd to Glen Arbor Road, Ben Lomond, including frontage of SLV elementary, middle and high schools. Includes new and replacement bike/ped bridges.	\$7,640	\$7,640	\$0
San Lorenzo Way Bridge Replacement Project	CO-P83	The project will consist of completely replacing the existing one lane structure and roadway approaches with a two lane clear span bridge and standard bridge approaches.	\$3,190	\$3,190	\$0
Scotts Valley Area Routes Chip Seal Project	CO 85	Roadway rehabilitation: Digouts, Chip Seal, and restriping Mt. Hermon Rd (PM 1.31 to SV city limits), Lockewood Ln (GH-SV city limits), and Graham Hill Rd (Sims to Lockewood) - 2.76mi	\$940	\$940	\$0
Seacliff Dr Improvements (entire length)	CO-P27j	Roadway and roadside improvements on various Major Collectors including bike lanes, sidewalks, transit turnouts, left turn pockets, merge lanes and intersection improvement.	\$1,760	\$0	\$1,760
Seacliff Village/State Park Drive Improvements	CO 36	Construct sidewalks, bike lanes, bus turnouts/stops, central plaza, street lighting, EV charging station, parking, landscaping, drainage and roadway overlay in Seacliff core area- consistent with the Seacliff Village Plan adopted by the BOS in 2003.	\$3,400	\$3,400	\$0
Seascape Blvd Improvements (Sumner Ave to San Andreas Rd)	CO-P26s	Roadway improvements and pavement rehabilitation.	\$620	\$170	\$450
Sims Road Improvements (Graham Hill Rd to La Madrona Dr)	CO-P17	Road rehab and maintenance, drainage, intersection improvements, landscaping, add bike, ped, and transit facilities.	\$1,760	\$440	\$1,320
Smith Grade Improvements (entire length- Empire Grade to Bonny Doon Rd)	CO-P32g	Road rehab and maint. Roadside improvements--left lane pockets, sidewalks, bike lanes and transit turnouts.	\$2,380	\$0	\$2,380

Project Title	ID	Project Description/Scope	Est total cost	Constrained	Unconstrained
Soquel Ave Improvements (City of SC to Gross Rd)	CO-P18	Transit turnouts, two way left turn lanes from Chanticleer to Mattison, merge lanes, signalization and intersection improvements. Signals at Chanticleer and Gross Rd. Roadwork: major rehabilitation and maintenance, perhaps drainage improvements. Roadside: sidewalks, landscaping, and new transit facilities.	\$3,310	\$3,310	\$0
Soquel Dr Improvements (Soquel Ave to Freedom Blvd)	CO-P19	Major rehab, merge lanes, intersections improvements, signal coordination, transit turnouts, fill sidewalk and bike facility gaps, some landscaping.	\$7,540	\$1,885	\$5,655
Soquel Dr Road Improvements (Robertson St to Daubenbiss)	CO-P62	Roadway and roadside improvements including curb, gutter, sidewalk, bike treatments (such as buffered and/or painted bike lanes, bike boxes, bike signals), left turn lanes, intersection improvements and roadway rehabilitation.	\$410	\$410	\$0
Soquel Dr Traffic Signal and Left Turn Lane (Robertson St)	CO-P58	Install left turn lane at signalized intersection from Soquel Dr to Robertson St and associated roadside improvements	\$1,000	\$0	\$1,000
Soquel-San Jose Rd Improvements (Paper Mill Rd to Summit Rd)	CO-P36	Roadway and roadside improvements including bike lanes, sidewalks, transit turnouts, left turn pockets, merge lanes and intersection improvements.	\$2,580	\$580	\$2,000
Soquel-Wharf Rd Improvements (Robertson St to Porter St)	CO-P28g	Roadway and roadside improvements on various Minor Arterials including addition of bike treatments (such as buffered and/or painted bike lanes, bike boxes, bike signals), transit turnouts, left turn pockets, merge lanes and intersection improvements. Roadwork includes major rehabilitation and maintenance of the road.	\$1,030	\$515	\$515
Spreckels Dr Improvements (Soquel Dr to Aptos Beach Dr)	CO-P27k	Roadway and roadside improvements on various Major Collectors including bike lanes, transit turnouts, left turn pockets, merge lanes and intersection improvement.	\$1,240	\$340	\$900
Spreckels Dr/Treasure Island Dr Improvements	CO-P42	Addition of bike lanes, intersection improvements, major road rehabilitation, road maintenance, and possible drainage improvements.	\$620	\$0	\$620
State Park Drive Improvements Phase 2	CO-P20	Transit turnouts, two way left turn, merge lanes, intersection improvements, and fill gaps in bike and ped facilities including pedestrian crossing improvements, bike treatments (such as buffered and/or painted bike lanes, bike boxes, bike signals). Plus, major rehabilitation and maintenance, drainage improvements, landscaping.	\$1,340	\$335	\$1,005
Summit Rd Improvements	CO-P26u	Roadway and roadside improvements including bike lanes, sidewalks, transit turnouts, left turn pockets, merge lanes and intersection improvements.	\$5,580	\$1,530	\$4,050
Sumner Ave Improvements (entire length- Rio Del Mar Blvd to end [just past via Novella])	CO-P32h	Road rehab and maint. Roadside improvements--left lane pockets, sidewalks, bike lanes and transit turnouts.	\$1,450	\$0	\$1,450
Swanton Rd Bridge Replacement	CO-P94	The project will consist of replacing existing 3 span steel girder bridge with a single span concrete box girder bridge	\$2,540	\$0	\$2,540
Thompson Ave Improvements (entire length- Capitola Rd to end)	CO-P33h	Roadway and roadside improvements including major rehabilitation and maintenance of road and includes implementation of greenway, which gives priority to bicycles and pedestrians on low volume, low speed streets including, pedestrian facilities, way finding and pavement markings, bicycle treatments to connect to MBSST.	\$1,240	\$0	\$1,240
Thurber Ln Improvements (entire length)	CO-P28h	Roadway and roadside improvements on various Minor Arterials including addition of bike lanes, transit turnouts, left turn pockets, merge lanes and intersection improvements. Roadwork includes major rehabilitation and maintenance of the road.	\$1,760	\$485	\$1,275
Thurwachter Road Bike Lanes	CO-P68	Install bicycle lanes.	\$50	\$0	\$50

All Figures in year 2016, '000s (thousands of dollars)

Project Title	ID	Project Description/Scope	Est total cost	Constrained	Unconstrained
Trout Gulch Rd Improvements (Soquel Dr. to end)	CO-P30p	Improvements of roadways and roadsides on various Major Arterials including addition of bike lanes, transit turnouts, left turn pockets, merge lanes and intersection improvements. Roadwork includes major rehabilitation and maintenance of the road and roadsides.	\$3,000	\$0	\$3,000
Upper Zayante Rd Improvements	CO-P98	Roadway and roadside improvements including bike lanes, sidewalks, transit turnouts, left turn pockets, merge lanes and intersection improvements.	\$1,500	\$0	\$1,500
Valencia Rd Improvements (Trout Gulch Rd to Valencia School Rd)	CO-P32j	Road rehab and maint. Roadside improvements--left lane pockets, sidewalks, bike lanes and transit turnouts.	\$1,760	\$0	\$1,760
Varni Rd Improvements (Corralitos Rd to Amesti Rd)	CO-P28i	Roadway and roadside improvements on various Minor Arterials including addition of bike lanes, transit turnouts, left turn pockets, merge lanes and intersection improvements. Roadwork includes major rehabilitation and maintenance of the road.	\$1,240	\$340	\$900
Vine Hill Rd Improvements (Branciforte/Mt. View Rd to State Hwy 17)	CO-P30q	Improvements of roadways and roadsides on various Major Arterials including addition of bike lanes, transit turnouts, left turn pockets, merge lanes and intersection improvements. Roadwork includes major rehabilitation and maintenance of the road and roadsides.	\$1,450	\$0	\$1,450
Wallace Ave Improvements (entire length-Huntington Dr to end)	CO-P33i	Roadway and roadside improvements on various Minor Collectors including addition of bike lanes, transit turnouts, left turn pockets, merge lanes and intersection improvements. Roadwork includes major rehabilitation and maintenance of the road.	\$880	\$0	\$880
Webster St Improvements (Jose Ave to 16th St)	CO-P29h	Improvements of roadways and roadsides on various Minor Collectors including addition of bike lanes, transit turnouts, left turn pockets, merge lanes and intersection improvements. Roadwork includes major rehabilitation and maintenance of the road.	\$1,240	\$0	\$1,240
Winkle Ave Improvements (entire length from Soquel Dr)	CO-P27l	Roadway and roadside improvements on various Major Collectors including bike lanes, transit turnouts, left turn pockets, merge lanes and intersection improvement.	\$2,380	\$655	\$1,725
Zayante Road Corridor Chip Seal Project	CO 86	Roadway rehabilitation: Digouts, Chip Seal, and restriping East Zayante & Upper E. Zayante from Quail Hallow to SR 35 (up to 9.07mi). Project to be scaled to match available funds	\$1,725	\$1,025	\$700
County of Santa Cruz Total			\$915,568	\$565,675	\$349,893

Ecology Action

Bike To Work/School Program	RTC 26	Countywide education, promotion, and incentive program to actively encourage bicycle commuting and biking to school. Coordinates efforts with local businesses, schools, and community organizations to promote bicycling on a regular basis. Provides referrals to community resources. Avg annual cost: \$140K/yr-includes in-kind donations and staff time.	\$3,870	\$1,870	\$2,000
Ecology Action Countywide SRTS Youth Pedestrian and Bicycle Safety Education	EA 02	EA will serve approximately 120 second grade classrooms with 'feet on the ground' pedestrian safety education and 88 fifth grade classrooms with bike safety education and 'rodeos' serving a total of 44 local schools.	\$8,360	\$440	\$7,920
Ecology Action Transportation Employer Membership Program	RTC 17	Community organization that promotes alternative commute choices. Work with employers, incentives for travelers to get out of SOVs including: emergency ride home, interest-free bike loans, discounted bus passes. Avg cost: \$90K/yr. Coordinates with Bike to Work program.	\$2,320	\$1,135	\$1,185
Every Day is Bike to Work Day	EA 03	Pilot bike commuter initiative to increase bike commuting at 6 large employers in Santa Cruz, Live Oak, and Watsonville areas; includes bike commute and safety workshops, online tracking apps/systems, support/encouragement	\$3,360	\$60	\$3,300

Project Title	ID	Project Description/Scope	Est total cost	Constrained	Unconstrained
Monterey Bay Electric Vehicle Alliance (MBEVA)	VAR-P22	Help facilitate this broad collaboration of PEV advocates, businesses, union labor, manufacturers and public agencies to assist the adoption of PEV's in the Monterey Bay region. MBEVA's main goals are to: • Create PEV infrastructure in this region • Educate the public on the benefits of PEV's • Educate gov't agencies on ways to streamline PEV policy, permitting, and implementation and • Help train workforce for PEV related jobs.	\$900	\$200	\$700
Ecology Action Total			\$18,810	\$3,705	\$15,105
SCCRTC					
Bicycle Route Signage Countywide	RTC 32	Define routes, develop and install signs directing bicyclists to preferred routes to various destinations countywide.	\$600	\$600	\$0
Bike Parking Subsidy Program	RTC 16	Subsidies for bicycle racks and lockers for businesses, schools, government agencies, and non-profit organizations are all eligible. Recipients are responsible for installation and maintenance of the equipment. Avg annual cost: \$25K/yr.	\$550	\$210	\$340
County-wide Bicycle, Pedestrian and Vehicle Occupancy Counts	RTC-P50	Conduct counts to assess mode split over time and assess impact of new facilities.	\$432	\$232	\$200
Cruz511 TDM and Traveler Information	RTC 02a	Transportation demand management including centralized traveler information system and ride matching services. Outreach, education and incentives; multimodal traveler information system on traffic conditions, incidents, road and lane closures; ride matching service for carpools, vanpools, and bicyclists; services and information about availability and benefits of all transportation modes, including sharing rides, transit, walking, bicycling, telecommuting, alternative work schedules, alternative fuel vehicles, and park-n-ride lots. Avg annual cost: \$315k.	\$5,290	\$2,640	\$2,650
Environmental Assessment, Economic and Other Analyses of Options for Rail Corridor	RTC-P02a	Environmental assessment, economic and other analyses of a possible future public transit system and other transportation options on the rail corridor right-of-way.	\$8,000	\$8,000	\$0
Freeway Service Patrol (FSP) on Hwy 1 and Hwy 17	RTC 01	Maintain and expand tow truck patrols on Highways 1 and 17. Work with the CHP to quickly clear collisions, remove debris from travel lanes, and provide assistance to motorists during commute hours to keep incident related congestion to a minimum and keep traffic moving. Avg need: \$300k/yr constrained (some from SB1); \$430k/yr total cost.	\$9,460	\$6,600	\$2,860
MBSST - North Coast Rail Trail	TRL 5	Monterey Bay Sanctuary Scenic Trail Network (MBSST) sections ph. 1 Wilder Ranch-Coast Dairies (5.1 mi); ph. 2-Yellow Bank Beach/Panther Beach-Davenport (2.1 mi).	\$20,000	\$20,000	\$0
MBSST - Rail and Hwy 1 Bicycle and Pedestrian Crossing at Laguna Creek Beach	RTC 27d	Design, approval of CPUC, environmental clearance, and construction of a bicycle and pedestrian crossing of the rail line and Hwy 1 to provide access between the Coastal Rail Trail at Laguna Creek Beach and the parking area on the inland side of Hwy 1.	\$2,000	\$0	\$2,000
Measure D Administration and Implementation	RTC-P59	SCCRTC administration, implementation and oversight of Measure D and the revenues generated from the 2016 Santa Cruz County Transportation Sales Tax - Measure D. Costs include annual independent fiscal audits, reports to the public, preparation and implementation of state-mandated reports, oversight committee, preparation of implementation, funding and financing plans, and other responsibilities as may be necessary to administer, implement and oversee the Ordinance and the Expenditure Plan.	\$16,500	\$16,500	\$0
Monterey Bay Sanctuary Scenic Trail Network (Coastal Rail Trail) - Trail Management Program	RTC 27c	Coordinate trail implementation as it traverses multiple jurisdictions to ensure uniformity; serve as Project Manager for construction of some segments; handle environmental clearance; coordinate use in respect to other requirements (closures for ag spraying, etc); solicit ongoing funding and distribute funds to implementing entities through MOUs; coordinate with community initiatives; etc.	\$1,030	\$1,030	\$0

Project Title	ID	Project Description/Scope	Est total cost	Constrained	Unconstrained
Monterey Bay Sanctuary Scenic Trail Network - Design, Environmental Clearance, and Construction	RTC 27a	Design, environmental clearance and construction of the 32-mile rail component of the 50+ mile network of bicycle and pedestrian facilities on or near the coast, with the rail trail as the spine and additional spur trails to connect to key destinations. (Funded segments listed individually.)	\$80,500	\$41,500	\$39,000
Monterey Bay Sanctuary Scenic Trail Network (Coastal Rail Trail) - Maintenance	RTC 27b	Maintenance of the rail trail component of the Monterey Bay Sanctuary Scenic Trail Network - ongoing clean-up, trash/recycling removal, graffiti abatement, brush clearance, surface repairs (from drainage issues, tree root intrusion) etc.	\$9,600	\$4,800	\$4,800
Performance Monitoring	RTC-P51	Transportation data collection and compilation to monitor performance of transportation system to advance goals/targets. Includes travel surveys of commuters, Transportation Demand Management plan, a low-stress bicycle network plan and parking standards plan.	\$1,650	\$220	\$1,430
Planning, Programming & Monitoring (PPM) - SB45	RTC 04	Development and amendments to state and federally mandated planning and programming documents, monitoring of programmed projects. Avg annual cost: \$250k/yr.	\$5,680	\$1,870	\$3,810
Rail and Trail Corridor Management and Maintenance	RTC-P03	Operating expenses for rail line oversight. Avg annual cost:\$175K/yr.	\$3,850	\$3,850	\$0
Rail Line: Freight Service Upgrades	RTC-P41	Upgrade rail line to FRA Class 2 to a condition for reasonable ongoing maintenance into the future. Upgrade crossings, replace jointed rail with continuously welded rail, upgrade signals, and replace ties.	\$25,000	\$0	\$25,000
Rail Transit: Watsonville-Santa Cruz Corridor	RTC-P02	Design, construction, and operation of fixed guideway public transit between Santa Cruz and Watsonville. May be a joint project with the SCCRTC, SCMTD, and local jurisdictions. Annual op cost est: \$5-10M/yr; capital: \$31.5M-\$133M depending on service area and frequency (Total cost reflects Scenario G from 2015Rail Transit Study). Cost shown for 15 years of service during RTP period.	\$283,000	\$0	\$283,000
Railroad Infrastructure Maintenance and Rehabilitation	RTC 36	Protect, maintain and rehabilitate the railroad infrastructure on the Santa Cruz Branch Rail Line including bridges, track, drainage, culverts, signals, etc.	\$22,410	\$22,410	\$0
Real-Time Transit Info	RTC-P58	Develop and maintain distribution channel for disseminating real time transit arrival and departure information to Santa Cruz Metro users. To be developed in coordination with Santa Cruz Metro.	\$520	\$220	\$300
Recreational Rail Infrastructure	RTC 25	Seasonal passenger rail service on Santa Cruz Branch rail line. Infrastructure needed for the service is listed here (e.g. platforms, sidings, pedestrian & disabled access, rail vehicles). Unsubsidized operations will be provided by a private operator and operating costs are therefore not included here. All costs are estimated.	\$5,340	\$0	\$5,340
Regional State Transit Assistance Projects	RTC-P60	State Transit Assistance (STA) eligible transit projects	\$33,220	\$33,220	\$0
RTC Bikeway Map	RTC-P49	Update, print and distribute free SC County Bikeway Map and update GIS files as needed.	\$320	\$320	\$0
SAFE: Call Box System Along Hwys	RTC-P01	Motorist aid system of telephone call boxes along all highways plus maintenance and upgrades. Call boxes may be used to request assistance or report incidents. Avg annual cost: \$245/yr	\$5,390	\$5,390	\$0
Santa Cruz Branch Rail Line Improvements	RTC 03a	Infrastructure preservation for current uses and future transportation purposes.	\$570	\$570	\$0
SCCRTC Administration (TDA)	RTC-P07	SCCRTC as Regional Transportation Planning Agency for Santa Cruz County distributes Transportation Development Act Local Transportation Funds and State Assistance Funds for planning, transit, bicycle facilities and programs, pedestrian facilities and programs and specialized transportation in accordance with state law and the unmet transit needs process. Average annual cost: \$650K/yr.	\$14,300	\$14,300	\$0

Project Title	ID	Project Description/Scope	Est total cost	Constrained	Unconstrained
SCCRTC Planning	RTC-P08	SCCRTC Planning Tasks. Includes public outreach, long and short range planning, interagency coordination. Avg annual cost: \$625k/yr.	\$13,750	\$13,750	\$0
School-Based Mobility/TDM Programs	RTC-P54	Student transportation programs aimed at improving health and well being, transportation safety and sustainability and that facilitate mode shift from driving alone in a motor vehicle to active and group transportation.	\$2,690	\$1,100	\$1,590
Shared Parking Program	RTC-P57	Develop tools to allow adjacent property owners to develop and share parking facilities.	\$150	\$50	\$100
Transportation Demand Management Ordinance and User Guide	RTC-P56	Develop Model TDM Ordinance and User Guide to include provisions for both residential and non-residential projects and address program and facilities improvements in return for reductions in off-street parking requirements.	\$260	\$0	\$260
Vanpool Incentive Program	RTC 15	Assist in start up and retention of vanpools. Includes financial incentives: new rider subsidies, driver bonuses, and empty seat subsidies. Also may include installation of wifi on vans. Avg Annual Cost: \$25k/yr.	\$670	\$100	\$570
SCCRTC Total			\$572,732	\$199,482	\$373,250
SCCRTC/Caltrans					
1 - Hwy 1 Corridor Investment Program	RTC 24a	Tier 1 – program level design/environmental analysis to establish a Corridor Investment Program (CIP) to reduce congestion along the 9 mile section of Highway 1 between San Andreas Rd/Larkin Valley Rd (Aptos) and Morrissey Boulevard (Santa Cruz). [Other RTC24_ projects are increments of the Highway 1 CIP.] Caltrans Project ID 05-0C730	\$0	\$0	\$0
2 - Hwy 1: Auxiliary Lanes from 41st Ave to Soquel Ave and Chanticleer Bike/Ped Bridge	RTC 24f	Construct auxiliary lanes and a bicycle/pedestrian overcrossing of Hwy 1 at Chanticleer Ave. Caltrans Project ID 05-0C732	\$32,100	\$32,100	\$0
3 - Hwy 1 Auxiliary Lanes: State Park Dr- Park Ave and Park Ave-Bay/Porter	RTC 24e	Construct approximately 2.5 miles of auxiliary lanes northbound and southbound between State Park Dr and Park Ave interchange and the Park Ave and Bay/Porter interchange. Includes retaining walls, soundwalls and reconstruction of Capitola Avenue overcrossing with wider sidewalks and bike lanes. [Part of Highway 1 CIP project (RTC 24a)]	\$73,000	\$73,000	\$0
5 - Hwy 1: Reconstruct Morrissey Blvd Interchange	RTC 24h	Reconstruct Morrissey Blvd overcrossing with enhanced pedestrian and bicycle treatments (such as buffered or painted facilities) on both sides of the overcrossing, and/or a bicycle/pedestrian overcrossing at Trevethan Ave, reconfigure ramps and local streets to accommodate the new interchange, and ramp metering.[Part of Highway 1 CIP project (RTC 24a), but listed here as standalone project.]	\$45,800	\$0	\$45,800
6 - Hwy 1: Reconstruct Soquel Avenue Interchange	RTC 24i	Reconstruct the overcrossing with enhanced pedestrian and bicycle facilities on both sides, reconfigure ramps and local streets to accommodate the new interchange, and ramp metering. [Part of Highway 1 CIP project (RTC 24a), but listed here as standalone project.]	\$67,330	\$0	\$67,330
7 - Hwy 1: Reconstruct Bay Ave/Porter St and 41st Avenue Interchange	RTC 24j	Reconstruct highway to operate as a single interchange. Includes construction of a frontage road that includes bike lanes and sidewalks connecting the Bay/Porter and 41st Ave intersections ; reconstruction of the Bay/Porter undercrossing and the 41st Avenue overcrossing with enhanced pedestrian and bicycle treatments on both sides, and reconfiguration of ramps and local streets to accommodate local traffic and ramp metering. [Part of the Highway 1 CIP project (RTC 24a), but is listed here as a standalone project.]	\$113,810	\$0	\$113,810
91 - Hwy 1: Reconstruction of 2 Railroad Crossings in Aptos.	RTC 24o	Reconstruct two railroad crossings over Highway 1 in Aptos. [Part of Highway 1 CIP project (RTC 24a), but listed as a standalone project.]	\$41,100	\$0	\$41,100

Project Title	ID	Project Description/Scope	Est total cost	Constrained	Unconstrained
92 - Hwy 1: Auxiliary Lanes from Rio Del Mar Blvd to State Park Dr Including Bridge over Aptos Creek	RTC 24p	Construct auxiliary lanes and reconstruct bridge over Aptos Creek. [Part of Highway 1 CIP project (RTC 24a), but listed as a standalone project.]	\$66,800	\$0	\$66,800
93 - Hwy 1: Auxiliary Lanes from Freedom Blvd to Rio Del Mar Blvd	RTC 24q	Construct auxiliary lanes. [Part of Highway 1 CIP project (RTC 24a), but listed as a standalone project.]	\$16,700	\$0	\$16,700
94 - Hwy 1: Northbound Auxiliary Lane from San Andreas Rd/Larkin Valley Rd to Freedom Blvd	RTC 24r	Construct northbound auxiliary lane. [Note: This project was not included as part of Highway 1 CIP project (RTC 24a).]	\$8,800	\$8,800	\$0
95 - Hwy 1: Reconstruct Remaining Interchanges	RTC 24k	Interchange modifications not identified as separate projects (San Andreas Rd/Larkin Valley Rd, Freedom Blvd, Rio Del Mar Blvd, State Park Dr, and Park Ave) , including reconfiguration of ramps and local streets for ramp meters, enhanced pedestrian and bike treatments (such as buffered or painted facilities) in each direction and sufficient width to allow addition of HOV lanes. [Part of the Highway 1 CIP project (RTC 24a), but is listed here as a standalone project.]	\$127,200	\$0	\$127,200
96 - Hwy 1: Construction of HOV Lanes from San Andreas Rd/Larkin Valley Rd to Morrissey Blvd	RTC 24m	Construction of High Occupancy Vehicle (HOV or Carpool) Lanes on Highway 1 from San Andreas Rd/Larkin Valley Rd to Morrissey Blvd. Cost excludes auxiliary lanes, reconstruction of interchanges for ramp metering, over and under crossings, and traffic operation system (TOS) elements on the corridor. [These costs are listed separately (RTC 24 a,e,f,g,h,i,j, m,n,o,p,q,r). Could be expensed under a complete Hwy 1 HOV Lane project (RTC 24, \$603,000) but currently expensed as a standalone project.]	\$61,980	\$0	\$61,980
97 - Hwy 1: HOV Lanes from San Andreas Rd/Larkin Valley to Morrissey Blvd	RTC 24z	Construct HOV or Carpool lanes on Highway 1 from San Andreas Rd/Larkin Valley Rd to Morrissey Blvd, including auxiliary lanes, reconstruction of interchanges with enhanced bike and pedestrian facilities, arterial and ramp modifications to allow ramp metering, a new bike/ped crossing at Trevethan, and traffic operation system (TOS) element. [Cost if built in entirety: \$603,000. See stand alone projects (RTC24f,e,g,h,i,j,a,m) for cost of incremental implementation.] Caltrans Project ID 05-0C730	\$0	\$0	\$0
98 - Hwy 1: TSM Project from Morrissey to San Andreas Rd.	RTC 24n	Construct the TSM project alternative as described in the Tier 1 environmental study to establish a Highway 1 Corridor Investment Program. Project includes auxiliary lanes, modifications of interchanges with enhanced bike and pedestrian treatment, arterial and ramp modifications to allow ramp metering, a new bike/ped crossing at Trevethan, and traffic operation system (TOS) element. [Cost if built in entirety, rather than incrementally: \$249,100. Assumes RTC 24f has been completed.]	\$0	\$0	\$0
Hwy 1 Bicycle/Ped Overcrossing at Mar Vista	RTC 30	Construct a bicycle/pedestrian overcrossing of Hwy 1 in vicinity of Mar Vista Drive, providing improved access to Seacliff and Aptos neighborhoods and schools.	\$7,800	\$7,800	\$0
Hwy 1 Ramp Metering: Northern Sections Between San Andreas Road and Morrissey Blvd	RTC 34	Reconfiguration of ramps and local streets to allow for ramp metering and installation of ramp meters. Could be expensed under a separate stand alone project (\$6.7 M)	\$0	\$0	\$0
Hwy 1 Ramp Metering: Southern Sections	CT-P01	Reconfigurations of ramps and installation of ramp meters at interchanges from Hwy 129/Riverside Dr to Mar Monte Ave.	\$20,600	\$0	\$20,600
SCCRTC/Caltrans Total			\$683,020	\$121,700	\$561,320
SCMTD					
ADA Access Improvements	MTD-P51	Add or improve ADA accessibility to all bus stops and METRO facilities.	\$4,222	\$350	\$3,872
ADA Paratransit Service - Continuation of Existing Service	MTD-P10C	Operation & maintenance cost of existing Paratransit service. Avg Annual Cost: \$5.5M.	\$121,000	\$121,000	\$0

Project Title	ID	Project Description/Scope	Est total cost	Constrained	Unconstrained
ADA Paratransit Vehicle Replacements	MTD 02	Replace buses/vans for ADA paratransit fleet (including Accessible Taxi program).	\$14,040	\$6,000	\$8,040
ADA Service Expansion	MTD-P11	Add capacity to meet increased trip demand thru 2040. Assumes 2% increase/year starting in 2019.	\$2,500	\$1,050	\$1,450
Automatic Vehicle Locator and Automatic Passenger Counter Systems	MTD 24	Automatic Vehicle Locator (AVL), Automatic Passenger Counters, and automatic vehicle announcing systems on METRO buses. Provide real time bus arrival/departure displays at bus stops. Necessary IT upgrades and data collection for system operations, security, planning and maintenance.	\$3,200	\$3,200	\$0
Bike Station at Capitola Mall	MTD-P23	Establish bike station at Capitola Mall, especially to serve UCSC. Would be joint mall, UCSC, MTD project.	\$1,030	\$0	\$1,030
Bikes on Buses Expansion	MTD-P20	Add additional space for bikes on articulated buses when/if METRO purchases or leases 60-ft articulated buses.	\$60	\$0	\$60
Bus on Shoulder	MTD-P57	Plan, design, seek Caltrans approvals, and construct improvements to utilize freeway shoulders to bypass congestion on Highway 1 and possibly Highway 17 to speed inter-city bus service	\$12,000	\$0	\$12,000
Bus Rapid Transit	MTD-P15	Construct park & ride lots, transit centers and grade-separation where feasible to operate bus rapid transit to reduce congestion on Highway 1.	\$26,780	\$0	\$26,780
Bus Rebuild and Maintenance	MTD-P31	Rebuild engines; Fleet maintenance equipment. Avg. cost is ~\$250k/bus, increases useful life up to 8 years at 40% of the cost of new buses.	\$5,250	\$5,250	\$0
Bus Replacements	MTD-P04	Replace fleet at the end of normal bus lifetime (approximately every 12 years; \$675 each for local fixed route; \$900k each for Hwy 17 Over the Road coaches).	\$142,420	\$73,000	\$69,420
Bus Stop and Station Improvements	MTD-P52	Improve customer access and/or amenities at bus stops; add bus stop pads to preserve pavement.	\$500	\$500	\$0
Commuter/Subscription Bus Program	MTD-P18	Capital and operating for subscription buses to areas not currently served by express buses (similar to large vanpool).	\$2,070	\$0	\$2,070
Customer IT amenities	MTD-P55	Upgrade Hwy 17 Wi-Fi and expand to local routes; real-time bus arrival website.	\$1,010	\$0	\$1,010
Deviated Fixed-Route Pilot Program	MTD-P43	Pilot project allowing buses to make minor route modifications to address needs of senior and disabled riders.	\$100	\$0	\$100
Electric Non-Fleet Vehicles	MTD-P47	Replace non-revenue vehicles to EV.	\$580	\$0	\$580
EV Fast Charging Stations	MTD-P48	Install 5 electric vehicle charging stations at transit centers.	\$1,030	\$0	\$1,030
Hwy 1 Express Buses	MTD-P27	Hwy 1 express bus replacements - 6 Buses @ \$500k ea. Replace every 12 years.	\$6,200	\$0	\$6,200
Hwy 17 Express Service - Continuation of Baseline Service Levels	MTD-P10B	Operation & maintenance cost of existing Highway 17 Express bus service. Avg annual cost: \$4.5M.	\$99,000	\$99,000	\$0
Hwy 17 Express Service Restoration and Expansion	MTD-P12	Restore Hwy 17 Express service to FY16 levels, then expand service 2% annually. Restore \$300K/yr operating plus 2% annually plus capital costs (2 buses)	\$10,000	\$4,000	\$6,000
Inter-County Paratransit Connection	MTD-P44	Establish paratransit connection location with Santa Clara County.	\$1,290	\$0	\$1,290
Local Transit - Continuation of Baseline Service Levels 2019-2040	MTD-P10	Operation & maintenance cost of existing local fixed route bus service. Avg annual cost: \$38M.	\$836,000	\$836,000	\$0

All Figures in year 2016, '000s (thousands of dollars)

Project Title	ID	Project Description/Scope	Est total cost	Constrained	Unconstrained
Local Transit Service Restoration and Expansion	MTD-P14	Restore local service to FY16 levels, then expand service 2% annually. Restore \$6.2M/yr operating plus 2% annually plus capital costs (16 buses)	\$173,000	\$72,000	\$101,000
Maintenance Facility Expansion	MTD-P38	Property acquisition, design, and construction of maintenance facility expansion.	\$15,850	\$0	\$15,850
Metro facilities repair/upgrades	MTD-P36	Maintain and upgrade facilities.	\$6,270	\$4,300	\$1,970
Metro rebranding	MTD-P58	Develop marketing program and establish consistent brand with uniform signage, letterhead, ads.	\$500	\$0	\$500
Non-Revenue Vehicle Replacements	MTD-P32	Replace support vehicles.	\$3,450	\$1,200	\$2,250
Pacific Station- Bike Station	MTD-P49	Establish bike station at Pacific Station.	\$410	\$0	\$410
ParaCruz Mobile Data Terminals; Radios	MTD-P30	Replace mobile data terminals in vehicles	\$760	\$400	\$360
ParaCruz Operating Facility	MTD-P28	Design, Right-of-Way and construction for new ParaCruz Operating Facility.	\$12,400	\$0	\$12,400
Park and Ride Facilities	MTD-P53	Fund purchase and construction or lease of parking areas for commuter bus patrons, either surface lot or parking structure.	\$29,400	\$0	\$29,400
Replacement of Watsonville Transit Center	MTD-P56	Replacement transit center at existing or new location.	\$25,000	\$0	\$25,000
Replacement Transit Fareboxes, Ticket Vending Machines, and Fare System Enhancements	MTD 18	Upgrade GFI Farebox system to enable fare media loading, tracking, registration, interoperability via internet. Necessary IT upgrade. System Integrator to analyze and propose integrated fare media strategy. Replacement fareboxes at end of useful life. Replacement of Ticket Vending Machines at end of useful life.	\$5,550	\$1,000	\$4,550
Santa Cruz Metro Center/Pacific Station Renovation	MTD 13	Renovate Pacific Station or construct new transit center in alternate location.	\$25,000	\$0	\$25,000
Senior/Disabled/Low-Income Fixed-Route Transit Incentives	MTD-P42	Incentives to encourage fixed-route bus ridership. Includes existing discounts for Seniors and persons with disabilities. May include free/reduced rates for seniors during off-peak hours, free bus passes to ADA eligible persons, bus pass subsidies for low income riders transportation to employment, and other incentives to encourage use of fixed-route system.	\$17,125	\$0	\$17,125
Signal Priority/Pre-Emption for Buses	MTD-P21	Enable coach operators to actuate traffic signals to prolong green or change red lights to improve transit running time.	\$2,070	\$0	\$2,070
Small Bus Fleet	MTD-P24	Purchase smaller buses for travel through residential neighborhoods. Cost currently unknown.	\$1,700	\$0	\$1,700
Solar Panels for Souza Operations Facility	MTD-P29	Energy reduction through installation of solar panels on the new Judy K. Souza Operations Facility	\$2,000	\$0	\$2,000
South County Operations and Maintenance Facility	MTD-P54	Acquisition of property and construction of second operations and maintenance facilities to better serve South County.	\$50,000	\$0	\$50,000
Transit Mobility Training Program Expansion	MTD-P19	Expand public outreach and training to encourage fixed route, rather than Paratransit, use. Outreach may also involve other partners (ex. DMV, doctors, senior centers, etc). Avg annual cost: \$80K/yr.	\$1,240	\$0	\$1,240
Transit Security and Surveillance Systems	MTD-P33	Enhance passenger safety and facilities security. Emergency response systems.	\$1,140	\$0	\$1,140

Project Title	ID	Project Description/Scope	Est total cost	Constrained	Unconstrained
Transit System Technology Improvements	MTD-P35	Automated Data Processing software, telephones, portable computers, servers, Customer Information Kiosks, digital ID processing equipment. Maintain and upgrade office software and hardware, bandwidth, web site, phone network, to enhance productivity, customer service and maintain functionality.	\$5,490	\$1,000	\$4,490
Transit Technological Improvements	MTD-P06	IT software and hardware upgrades for scheduling, customer service, planning systems. Upgrades every 5 years.	\$5,170	\$2,500	\$2,670
Transit/Paratransit Driver Emergency Training	MTD-P45	Provide training equipment for drivers on new mobility devices (scooters, motorized wheelchairs) plus emergency training and biohazard container and clean-up kits for vehicles.	\$260	\$0	\$260
SCMTD Total			\$1,674,067	\$1,231,750	\$442,317
Seniors Council					
Senior Employment Ride Reimbursement	RTC-P43	Reimburse low income seniors for transit expenses to/from employer sites.	\$1,600	\$1,600	\$0
Seniors Council Total			\$1,600	\$1,600	\$0
UCSC					
Alternative Fuel Fleet Vehicles	UC-P64	Purchase and upgrade fleet vehicles to alt. fueled vehicles (refuse trucks, street sweepers, fleet cars, etc.)	\$3,100	\$500	\$2,600
Alternative Fuel/Electric Shuttle Vehicles	UC-P22	Capital acquisition of vehicles/conversion of shuttles to EV.	\$10,330	\$0	\$10,330
Bike Shuttle Vehicle Acquisition	UC-P51	Acquire more alt fueled vehicles for bike shuttle (and possible expansion).	\$520	\$0	\$520
Bus Tracking and AVL Transit Programs	UC-P62	GPS bus tracking and Automatic Vehicle Locator programs inform travelling population of transit locations so they can make informed mode choices.	\$260	\$260	\$0
College Nine/Communications Pedestrian Bridge	UC-P39	Construct pedestrian bridge.	\$1,030	\$0	\$1,030
College Nine/Crown College Pedestrian Bridge	UC-P37	Construct pedestrian bridge.	\$1,550	\$0	\$1,550
Coolidge Overlook	UC-P42	Improve overlook for parking, benches and signage for Sanctuary.	\$620	\$0	\$620
Disability Van Service	UC-P75	Operate disability van service (\$240k/yr).	\$5,450	\$5,450	\$0
East Collector Transit Hub	UC-P46	New transit hub at East Collector (East Remote) lot.	\$5,170	\$0	\$5,170
Electric Vehicle Charging Stations	UC-P65	Add additional electrical infrastructure and install electric vehicle charging stations around campus.	\$810	\$310	\$500
Great Meadow Bike Path Safety Improvements	UCSC 07	Bike path safety and maintenance improvements: Reconstruct and widen Class 1 bike path, separate pedestrian improvements northbound to minimize conflicts.	\$1,135	\$1,135	\$0
Hagar/McLaughlin Intersection Improvements	UC-P10	Signal, pedestrian safety improvements(including new crosswalk) and roadway improvements.	\$520	\$0	\$520
Hagar/Steinhart Intersection Improvements	UC-P14	Signal, pedestrian safety improvements, transit, roadway improvements.	\$1,030	\$0	\$1,030
Hagar-Coolidge Connector Road/Hagar/East Remote Intersection Improvements	UC-P47	New roadway connector, including bicycle lanes, between Hagar Drive and Coolidge, plus Hagar/East Remote Intersection Improvements: signal, pedestrian safety improvements and roadway improvements.	\$3,100	\$0	\$3,100

Project Title	ID	Project Description/Scope	Est total cost	Constrained	Unconstrained
Heller Drive Bicycle Lanes (Empire Grade to Porter College)	UC-P56	Add Class II bicycle lanes in downhill direction as feasible.	\$830	\$0	\$830
Kerr/Porter Rd Pedestrian Bridge ADA Upgrades	UC-P72	Modify bridge to improve access.	\$3,100	\$0	\$3,100
Kresge/Core West Pedestrian Bridge: ADA Upgrades	UC-P57	Modify bridge to enhance ADA access.	\$3,100	\$3,100	\$0
McLaughlin Drive Bike Lanes/Pedestrian Enhancements	UC-P30	Install Class 2 bike lanes and enhance pedestrian circulation on University campus roadway.	\$2,580	\$0	\$2,580
Meyer Drive Extension/Jordan Gulch Bridges	UC-P04	Extension of Meyer Drive from existing Meyer Drive to Hagar Drive. Includes potential construction of two bridges, pedestrian, and bicycle facilities.	\$20,660	\$0	\$20,660
Northern Entrance	UC-P08	Construct new access road including Cave Gulch Bridge to Empire Grade and road and bicycle lanes to Northern Heller Dr. for access and fire safety.	\$10,330	\$0	\$10,330
Northern Loop Roadway	UC-P07	Construct new roadway, including bicycle lanes, on upper campus. Will be phased. Phase I: Chinquapin Extension to support Social Science 3.	\$18,590	\$0	\$18,590
Parking Management Technology Improvements	UC-P68	Updating existing parking management technologies to allow for more effective management, additional parking management at Coastal Marine Campus and 2300 Delaware site.	\$410	\$410	\$0
Pedestrian Directional Map/Wayfinding System	UC-P38	Develop and install signs throughout campus.	\$520	\$520	\$0
Porter/Performing Arts Pedestrian Bridge	UC-P36	Construct pedestrian bridge.	\$1,030	\$0	\$1,030
Science Hill/North Academic Core Pedestrian Bridge	UC-P40	Construct pedestrian bridge.	\$1,030	\$0	\$1,030
Sidewalk/Pedestrian Improvements	UC-P50	Widen sidewalks/improve ped access in areas of campus.	\$5,170	\$0	\$5,170
Spring Street Bikeway	UC-P34	Construct bikeway connecting Spring Street to Hagar Ct.	\$310	\$0	\$310
Steinhart Way Multimodal Improvements	UC-P03	Roadway improvements for shuttles, bikes and pedestrians.	\$520	\$0	\$520
Transit Pullouts and Shelters Enhancements	UC-P19	Construction and installation of transit pullouts and reconstruction of shelters throughout campus.	\$1,550	\$0	\$1,550
Transit Vehicles (ongoing)	UC-P23	Ongoing capital acquisition of transit vehicles for on-campus transit and University shuttles.	\$5,170	\$5,170	\$0
Transportation-Related Stormwater Management Projects	UC-P66	Retrofitting existing transportation facilities and developing new facilities with new stormwater management techniques.	\$1,030	\$1,030	\$0
Traveler Safety Education/Information Programs	UC-P61	Bike/pedestrian safety programs; light and helmet giveaways, safety classes, distracted driver programs, bus etiquette program.	\$660	\$100	\$560
UCSC - Metro Station Bus Rapid Transit Improvements	UC-P48	Bus Rapid Transit Improvements between Metro Station, Bay Street Corridor, and UCSC Roadways.	\$5,170	\$0	\$5,170
UCSC Bicycle Facilities	UC-P55	Add bicycle facilities on campus roadways and paths. Lump sum of projects, including but not limited to UCSC Bicycle Plan that are not listed individually elsewhere in the RTP.	\$1,030	\$0	\$1,030
UCSC Bicycle Parking Improvements	UC-P33	Install bicycle parking facilities to serve bicycle commuters to the University.	\$520	\$520	\$0
UCSC Bike Loan Program	UC-P52	Develop and implement a bike loan program for UC students.	\$1,030	\$0	\$1,030

Project Title	ID	Project Description/Scope	Est total cost	Constrained	Unconstrained
UCSC Bike Showers/Storage Lockers	UC-P32	Install showers and storage facilities to serve bicycle commuters to the University.	\$620	\$0	\$620
UCSC Commute Counseling Program	UC-P69	Staffing program development to individually market to UCSC affiliates on more sustainable means of travel to campus.	\$3,100	\$3,100	\$0
UCSC Commuter Incentive Programs	UC-P70	Provide ongoing support and development of new programs to encourage travel to campus via sustainable modes of travel.	\$1,550	\$1,550	\$0
UCSC Lump Sum Roadway Maintenance	UC-P59	Repaving and rehabilitation of roadways on UCSC campus to maintain existing network.	\$10,330	\$3,100	\$7,230
UCSC Main Entrance Improvements	UC-P01	Realign roadway, transit pullout/shelter, relocate bike parking, construct pedestrian path, historic resource analysis. Work may be done in conjunction with City Roundabout project.	\$2,070	\$2,070	\$0
UCSC Parking Operations & Maintenance	UC-P73	Operate and administer the parking operations for UCSC including planning, TDM, marketing and debt service.	\$70,450	\$70,450	\$0
UCSC Pedestrian/Transit Zone	UC-P44	Pedestrian safety improvements including, colored/textured asphalt and signage at various locations on core campus roadways.	\$1,030	\$0	\$1,030
UCSC Traffic Control	UC-P58	Non-traditional traffic control/crossing guard program at key intersections on UCSC campus to improve pedestrian and vehicle safety, reduce conflicts, improve travel times.	\$2,580	\$2,580	\$0
UCSC Transit Service	UC-P74	Operate the on campus shuttle service and Night Owl (\$3.01m/year).	\$68,410	\$68,410	\$0
UCSC Vanpool Program	UC-P63	Maintain, operate and expand upon UCSC vanpool program.	\$8,680	\$8,680	\$0
Zimride Emergency Preparedness Database	UC-P67	Creating a new database through Zimride to have emergency response evacuation of UCSC campus.	\$310	\$0	\$310
UCSC Total			\$288,095	\$178,445	\$109,650
<i>Various Agencies</i>					
Active Transportation Plan	VAR-P39	Prepare Active Transportation Plans that address bicycle, pedestrian, safe routes to schools and complete streets facilities within the jurisdictions of Santa Cruz County as well as the Santa Cruz Harbor Port District.	\$2,380	\$2,380	\$0
Bicycle Sharrows	VAR-P03	Install sharrows (shared roadway marking) designating areas where bicyclists should ride on streets, especially when bicycle lanes are not available. To be implemented by local jurisdictions.	\$520	\$520	\$0
Bicycle Treatments for intersection improvements (ADD)	VAR-P32	Add painted bike treatments (such as buffered and/or painted bike lanes, bike boxes, bike detection and signals), at major intersections.	\$4,130	\$4,130	\$0
Bike Share	VAR-P16	Establish and maintain an urban centered bike share program allowing county residents to access loaner bikes at key locations such as downtowns, transit centers, shopping districts, and tourist destinations.	\$5,170	\$5,170	\$0
Bike-Activated Traffic Signal Program	VAR-P05	Provide traffic signal equipment to ensure that the traffic signals will detect bicycles just as cars are detected and ensure that the appropriate traffic signal phase is activated by the bicycles.	\$1,030	\$1,030	\$0

Project Title	ID	Project Description/Scope	Est total cost	Constrained	Unconstrained
Cabrillo College TDM Programs	RTC 33	Provide students and employees at all four Cabrillo College campuses with education, promotion, and incentives that support the use of sustainable transportation modes. Develop information, programs and services customized to meet the transportation needs of the Cabrillo College community. 'Provide Sustainable Transportation education, promotion, and Go Green program enrollment to Cabrillo College students and employees. Partner with Cabrillo staff and students to reduce SOV trips to the Aptos, Watsonville and Scotts Valley campuses. Provided targeted information and services to Cabrillo members.	\$1,560	\$780	\$780
Carsharing Program	VAR-P06	Program to assist people in sharing a vehicle for occasional use. Implementing Agency TBD, varies.	\$2,580	\$1,290	\$1,290
Climate Action Transportation Programs	RTC-P48	Projects that reduce greenhouse gas emissions through reducing vehicle trips and vehicle miles traveled, increasing fuel efficiency and expanding use of alternatively fueled vehicles. Includes comprehensive outreach and education campaigns, a countywide emergency ride home for those using alternatives, and TDM incentive programs: \$100k/year.	\$2,580	\$2,330	\$250
Complete Streets Implementation	VAR-P27	Additional projects for complete streets implementation that would fall under the Complete Streets Guidelines.	\$10,330	\$10,330	\$0
Coolidge Drive Reconstruction	VAR-P23	Reconstruction of roadway and bike lane.	\$3,100	\$0	\$3,100
Countywide Pedestrian Signal Upgrades	RTC-P26	Grant program to fund installation of accessible pedestrian equipment with locator tones including rapid flashing beacons and count down times etc. to facilitate roadway crossings by visually and mobility impaired persons.	\$2,070	\$1,035	\$1,035
Countywide Senior Driving Training	VAR-P24	Coordinate and enhance current programs that help maturing drivers maintain their driving skills and provides transitional info about driving alternatives. (Current programs are run by AARP and CHP.)	\$800	\$80	\$720
Eco-Tourism - Sustainable Transportation	VAR-P17	Provide sustainable transportation information, incentives and promotions to the estimated one million visitors to Santa Cruz County. Work with the Santa Cruz County Conference and Visitors Council, local lodgings, and tourist attractions.	\$1,030	\$515	\$515
Electric Bicycle Commuter Incentive Program	VAR-P44	Financial incentives, promotion and/or education to encourage residents to use electric bikes instead of commuting by car.	\$3,400	\$1,000	\$2,400
Environmental Mitigation Program	VAR-P38	Allocate funds to protect, preserve, and restore native habitat that construction of transportation projects listed in SCCRTC's RTP could potentially impact. EMP funds will be for uses such as, but not limited to, purchasing land prior to project development to bank for future mitigation needs, funding habitat improvements in advance of project development to leverage and enhance investments by partner agencies.	\$5,680	\$5,680	\$0
Hwy 1 Bike/Ped Bridge (Cabrillo-New Brighton)	CT-P07a	Construction of bike/ped bridge connecting New Brighton State Beach and Cabrillo College as part of larger Nisene SP to the Sea trail concept. Lead agency TBD.	\$8,260	\$0	\$8,260
Live Oak Transit Hub	VAR-P46	Transfer node near rail corridor at 17th Ave - may include transit, rideshare, bicycle, bikeshare, pedestrian to provide regional connections to/from other parts of the county.	\$530	\$530	\$0
Local Arterial ITS Infrastructure	VAR-P11	ITS (Intelligent Transportation Systems): advanced electronics and information technologies to increase the safety and efficiency of the surface transportation system, including vehicle detection devices along major arterials in urbanized areas to alert motorists of incidents.	\$620	\$0	\$620
Lump Sum Bridge Preservation	VAR-P14	Painting, Barrier Rail Replacement, Low Water Crossing, Rehab, and Replacement bridges for SHOPP and Highway Bridge Program (HBP).	\$54,500	\$54,500	\$0

Project Title	ID	Project Description/Scope	Est total cost	Constrained	Unconstrained
Lump Sum Emergency Response Local Roads	VAR-P13	Lump sum for repair of local roads damaged in emergency. (Based on average ER/FEMA/CalEMA funds, storm damage, fire, etc. Costs of repairs assumed under lump sum maintenance and operations within local jurisdiction listings.)	\$23,370	\$23,370	\$0
Mission St/Hwy 1 Bike/Truck Safety Campaign	VAR-P18	Partnership with road safety shareholders including Caltrans, UCSC, City of Santa Cruz, Ecology Action, trucking companies and others to improve bike/truck safety along the Mission Street corridor. Provide safety presentations, videos, brochures, safety equipment, etc.	\$520	\$520	\$0
Mobility Management Center	VAR-P04	Centralized one-stop-shop for information and resources on specialized transportation options. May be combined with 511 and local senior information and assistance efforts. Implementing agency TBD. Est. annual cost: \$100-300k/yr.	\$7,750	\$0	\$7,750
Neighborhood Greenways	VAR-P33	Implement greenways which gives priority to bicycles and pedestrians on low volume, low speed streets including, way finding and pavement markings, bicycle treatments in areas identified for more intensified development in Sustainable Communities Strategy.	\$5,170	\$0	\$5,170
Park and Ride Lot Development	VAR-P26	Upgrade and maintain existing park and ride lots for commuters countywide. Secure additional park and ride lot spaces for motorized vehicles and bicycles. Long range plan: identify, purchase land, construct Park & Ride lots.	\$8,260	\$2,260	\$6,000
Planning for Transit Oriented Development for Seniors	VAR-P25	Evaluate opportunities for Transit Oriented Development serving seniors including access to medical facilities.	\$80	\$80	\$0
Plug-in Electric Vehicle Access, Education & Promotion	VAR-P21	Target motorist looking for a cleaner vehicle by providing access, education and promotion on ever evolving plug-in electric vehicles (PEV). Provide PEV car share, rental and demo drives, educational workshops, online, and hard copy information. Promote through current EA groups, partners, media and other available sources.	\$830	\$0	\$830
Public Transit Marketing	VAR-P20	Initiatives that increase public transit ridership including discount passes, free fare days, commuter clubs, and promotional and marketing campaigns.	\$1,550	\$775	\$775
Public/Private Partnership Bicycle and Pedestrian Connection Plan	VAR-P29	Develop model for assisting local jurisdictions in working with private property owners to allow bicycle and pedestrian access through private property in areas identified for more intensified development in Sustainable Communities Strategy.	\$150	\$150	\$0
Public/Private Partnership Transit Stops and Pull Outs Plan	VAR-P30	Develop model for assisting local jurisdictions in working with businesses to install transit pullouts and shelters on property in areas identified as high quality transit corridors in Sustainable Communities Strategy.	\$150	\$150	\$0
Safe Paths of Travel	VAR-P08	Regional program to construct and/or repair pedestrian facilities adjacent to high frequency use origins and destinations, particularly near transit stops.	\$3,100	\$3,100	\$0
Safe Routes to Schools Studies	VAR-P10	Studies to assess pedestrian and bicycle safety near schools.	\$210	\$210	\$0
Safety Plan	VAR-P36	Develop a safety plan that addresses traffic related injuries and fatalities for all modes of transportation.	\$310	\$310	\$0
Santa Cruz County Open Streets	VAR-P40	Community events promoting alternatives to driving alone as part of a sustainable, healthy, and active life-style. Temporarily opens roadways to bicycle and pedestrian travel only, diverting automobiles to other roadways.(Average annual cost - \$100k/yr)	\$2,000	\$200	\$1,800
School Complete Streets Projects	VAR-P35	Implement ped/bike programs and facilities near schools.	\$10,330	\$10,330	\$0

Project Title	ID	Project Description/Scope	Est total cost	Constrained	Unconstrained
School Safety Programs	VAR-P19	Bicycle and walking safety education and encouragement programs targeting K-12 schools in Santa Cruz County including Ecology Action's Safe Routes to School and Bike Smart programs. Provide classroom and on the bike safety training in an age appropriate method. Provide a variety of bicycle, walking, busing and carpooling encouragement projects ranging from bike to school events, to incentive driven tracking, and educational support activities. Est. annual cost \$150k.	\$3,820	\$1,910	\$1,910
TDM Individualized Employer/Multiunit Housing Program	RTC-P53	Implement individualized employer and multiunit housing TDM programs with incentives for existing development.	\$4,650	\$2,325	\$2,325
Transit Oriented Development Grant Program	RTC-P25	Smart growth grant program to fund TODs that encourage land use and transportation system coordination. May include joint child care/PNR/transit centers.	\$5,170	\$2,570	\$2,600
Transit Priority	VAR-P34	Install transit queues at major intersections.	\$5,170	\$2,585	\$2,585
Transit Service to San Jose Airport	VAR-P43	Provide transit service to San Jose airport from Santa Cruz. Current average annual need \$0.5M	\$11,000	\$0	\$11,000
Transportation Demand Management Plan	VAR-P37	Collaborate with other organizations to develop a coordinated plan for transportation demand management program implementation for Santa Cruz County.	\$310	\$310	\$0
Transportation for Caregivers of Seniors/People with Disabilities	VAR-P42	Transportation service for caregivers of seniors or people with disabilities. Including, but not limited to programs such as, volunteer rides, taxi script, ride to work program. Current avg annual need \$.5M. Constrained=\$0M.	\$11	\$0	\$11
Transportation for Low Income Youth	VAR-P15	Safe, reliable transportation services for foster care children to/from school. Avg annual cost: \$100k/yr.	\$2,580	\$0	\$2,580
Transportation for Low-Income Families	VAR-P41	Transportation service for low income families with children. Includes medical service rides, out-of-county rides, volunteer rides, taxi script, ride to work program, etc. Current avg annual need \$.5M. Constrained=\$0M.	\$11,000	\$0	\$11,000
Transportation System Electrification	VAR-P07	Partnership with local gov't agencies, electric vehicle manufactures, businesses, and Ecology Action to establish electric vehicle charging stations for EV's, plug-in hybrids, NEV's, as well as ebikes and escooters. Work with manufacturers on developing advanced electric vehicles and educating the public regarding the ease of use and benefits of electric vehicles.	\$51,650	\$51,650	\$0
Uncontrolled Pedestrian Crossing Improvements	VAR-P31	Implement improvements to uncontrolled pedestrian crossing such as painted and/or raised crosswalks, flashing beacons and pedestrian islands.	\$5,170	\$2,570	\$2,600
Watsonville Transit Hub	VAR-P47	Expand transportation mode options at transfer node near rail corridor and current transit center to increase use of transit, rideshare, bicycle, bikeshare, pedestrian to provide regional connections to/from other parts of the county.	\$585	\$585	\$0
West Side Transit Hub	VAR-P45	Transfer node near rail corridor at Natural Bridges Dr - may include transit, rideshare, bicycle, bikeshare, pedestrian to provide regional connections to/from other parts of the county and the university.	\$580	\$580	\$0
Various Agencies Total			\$275,746	\$197,840	\$77,906
Volunteer Center					
Volunteer Center Transportation Program	VC-P1	Program providing specialized transportation to seniors and people with disabilities. Constrained=existing TDA allocations.	\$3,750	\$1,640	\$2,110
Volunteer Center Total			\$3,750	\$1,640	\$2,110

All Figures in year 2016, '000s (thousands of dollars)

Project Title	ID	Project Description/Scope	Est total cost	Constrained	Unconstrained
<i>Watsonville Airport</i>					
Lump Sum Watsonville Municipal Airport Capital Projects	AIR-P01	Projects from the Watsonville Airport Capital Improvement Program. Includes new hangers, reconstruction of aviation apron, security features, and runway extensions.	\$21,700	\$21,700	\$0
Watsonville Municipal Airport Operations	AIR-P02	Ongoing operations/maintenance. Average \$2M/year.	\$44,000	\$44,000	\$0
Watsonville Airport Total			\$65,700	\$65,700	\$0
Total Within Projected Funds (Constrained)				\$3,757,313	
Minimum New Funds Needed (Unconstrained)					\$3,356,681
*For some projects no cost estimate was available thus was not included in this total					