

*2023 Santa Cruz County
Regional Transportation Grants Program*

**PROJECT APPLICATION PACKAGE FOR
EMERGENCY ROUTES PHASE 2
RESURFACING PROJECT**

EMPIRE GRADE & BEAR CREEK RD



APPLICATION CONTENTS

- A. Project Information
- B. Project Benefits/ Evaluation Criteria
- C. Schedule, Cost, Funding, & Estimate
- D. Project Vicinity Map/ Site Photos
- E. Certification and Assurances
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APPLICATION/PROJECT PROGRAMMING REQUEST

A. PROJECT INFORMATION						
Applicant/Implementing Agency			Public Agency Sponsor (if different)			
County of Santa Cruz			N/A			
Project Title						
Emergency Routes Phase 2 Resurfacing Project						
Brief Description/Scope of Work (attach extra pages to fully describe scope)						
This project involves pavement maintenance of approximately 8.11 miles of roadway including significant portions of Empire Grade and Bear Creek Rd. The construction method used shall be isolated sections of digout and asphalt replacement where rutting has occurred as well as isolated asphalt leveling courses, followed by resurfacing of the entire roadway surface, then restriping of the work area. Work shall extend from existing roadway edge to existing roadway edge.						
Location, Limits, Length (attach map(s)/photos on separate tab)						
Location/Limits: Empire Grade (Spaten Wy to Alba Rd) - 3.36 Miles Bear Creek Rd (Hwy 9 to PM 4.75) - 4.75 Miles Total Length: 8.11 Miles						
Roadway Functional Classification:		5-Major Collector				
Summary of Project Benefits, Purpose and Need						
(See Response in Section B)						
Funds requested	\$4,522,000	Total Project Cost	\$5,107,873	Estimated # of Daily Users	2,724	
Are you able/willing to receive federal funds?			Yes			
Was project previously programmed for funds by RTC?			No		RTIP ID	N/A
Project Cost by Mode (list approximate percentage of total project costs)						
Mode			% of Total Cost			
Pavement Preservation (rehab, overlay, etc.)			98%			
Road-Auto serving (not rehab)						
Bicycle						
Pedestrian						
Transit			2%			
Transportation System Management (TSM)						
Transportation Demand Management (TDM)						
Other:						
Total			100%			
Priority	Project is priority # 1 of 8 applications submitted					
Contact Name		Phone		E-mail Address		
Casey Carlson		(831) 454-3102		Casey.Carlson@santacruzcountyca.gov		

B. PROJECT BENEFITS/ EVALUATION CRITERIA

Information in this section will be used to evaluate projects. The RTC is required to consider how well projects advance regional, state and federal goals, policies, performance metrics and targets, including how projects will contribute towards implementation of the long-range transportation plan (Regional Transportation Plan) and other state and federal regulations including the California Complete Streets Act of 2008, SB375, the Federal FAST Act.

See **Attachment 2** of the call for projects for examples of type of information to demonstrate benefits.

Project Title:		Emergency Routes Phase 2 Resurfacing Project
Generally, what are the benefits of this project?		
<p>Empire Grade and Bear Creek Road are vital links between the communities of Bonny Doon and the San Lorenzo Valley. These routes receive a significant amount of traffic on a daily basis, and are critical routes for emergency access and evacuation during disasters. The proposed project will expand on the recently completed work of the Emergency Routes Resurfacing Project. Empire Grade runs along the ridge between Bonny Doon and San Lorenzo Valley, serving multiple connecting roads on either side (including Jamison & Alba – the focus of the recently completed project). Bear Creek Road is a major commute and evacuation route running eastward out of San Lorenzo Valley connecting State Hwy 9 to State Hwy 17. These roads were used extensively during the 2020 CZU Complex Fire and associated cleanup and rebuilding efforts, this excessive use has caused accelerated deterioration of these roadways and they are now greatly in need of resurfacing. While these roads are too narrow to accommodate bike lanes, they are used by cyclists connecting to other routes. In addition to vehicle traffic and cyclists, both project roadways also serve transit routes (Metro Routes 35, and 41/42). This project will restore the health of these roadways so that they may continue to provide access to these communities.</p>		
Benefit Category (See Attachment 2 of Call for Projects for additional information and sample supporting data)		How does this project address any of the following? <i>Projects are not expected to address all of these: if not applicable or not a primary purpose, write "N/A".</i>
1	Safety and Collisions (reduce fatal or injury collisions)	Project will improve road surface which will benefit all vehicles including cyclists and emergency services and install new striping which will improve visibility.
2	System Preservation / Infrastructure Condition (maintain existing transportation infrastructure, service, or program)	Will improve pavement condition of existing roadway to extend the useful life of this facility.
3	System Performance	Improvements to the pavement surface will enhance ride quality for all users and reduce vehicle wear.
3a	Reduce Emissions and/or Vehicle Miles Traveled	N/A
3b	Improve travel times, travel time reliability; reduce delay	N/A
3d	Improve freight or goods movement efficiency	Improved ride quality & striping visibility.
4	Increase Access for All (Expand multi-modal travel options/choices, especially to and within key destinations for all users)	N/A
5	Public Health and Equity - Enhance health, safe access to key destination for transportation-disadvantaged populations	N/A
5a	Improve public health or promote healthy communities, provide outreach to targeted users/health issues	N/A
5b	Serve people who are transportation disadvantaged due to age, income, ability or language or other challenges	N/A
5c	What percent of the population in the project area is minority or low-income?	Empire Grade: EPA "Low Income" - 21%, EPA "People of Color" - 21% Bear Creek Rd: EPA "Low Income" - 16%, EPA "People of Color" - 16%
5d	Will the proposed project increase traffic in low-income and minority neighborhoods?	No
6	Climate Change and Resiliency (reduces greenhouse gas (GHG) emissions or vehicle miles traveled (VMT) per capita)	N/A

Additional Considerations in Project Evaluation:		
A.	RTP Consistency: If project is included in the 2045 Regional Transportation Plan (RTP) Project List, list RTP Project Number	Empire Grade and Bear Creek Rd are included in the 2045 RTP (CO-P10 & CO-P04 respectively), however the RTIP listed projects included various multimodal improvements while this project will focus primarily on pavement preservation.
B.	Consistency with Complete Streets guidelines and policies: Describe how is project consistent with guidelines, integrates complete streets elements	The goal of the complete streets guidebook is to plan transportation projects such that the maximum number of people in the community are benefited by transportation funding. This project is designed to provide longevity to critical roadway infrastructure that serves a great number of people in the community both in terms of travel to destination and in access to emergency services.
C.	Consistency with other plans. What other plans is this project listed in, if any?	N/A
D.	Public engagement: How was this project determined to be a priority? What outreach will occur during implementation?	This project has been reviewed and approved by the County of Santa Cruz Board of Supervisors. Pavement maintenance projects are typically not subject to a public review process, in our experience the public is generally very receptive to pavement maintenance projects, we work with each district supervisor to determine top priorities for their district.
E.	Scale of Benefits - How many users are expected to use the facility, service or program? What is the source of this estimate?	Estimated Number of Daily Users is shown in Part A - Project Information. This data was obtained from SCCRTC Traffic Count Data, or more recent Traffic Count Data if available.
F.	Potential Risks (and plans to mitigate them)	
F1	Funding - Is this project fully funded? What other funding has been secured for the project?	Yes, local match is available to cover full grant request. Requested grant funding and required local match are the only sources identified for this project, there are no other funding sources to report.
	How will potential cost increases be funded?	Cost increases will be dealt with either by truncating project scope or limits, or by increasing use of local funds (if available).
	Will funds programmed by RTC be used to leverage other grants? If funds are not approved by the RTC during this competitive grant cycle, will other funding be at risk of being lost?	No, no other grant funds are associated with this project
	Is this project eligible for any other competitive grants?	No
F2	Schedule: Describe any potential delays to schedule	None.
F3	Deliverability: Describe why your agency is capable of delivering this project. (sufficient staff, project management, performance in past)	Since the project involves pavement maintenance of an existing facility within existing County right of way, the project will require no right of way acquisition, and only a CEQA categorical exemption in terms of environmental permitting. The County is eager to perform this work and can schedule the work for summer as soon as grant funds are available.
F4	Environmental: Describe any potential environmental issues, mitigations, risks associated with current and future environmental conditions	None.
F5	Other: Describe any other potential risks and plans to mitigate risks	N/A

C1. CAPITAL PROJECTS - SCHEDULE, COST AND FUNDING SUMMARY

(No Non-Infrastructure Components are included in this project)

Project Title:	Emergency Routes Phase 2 Resurfacing Project	
Project Schedule/Milestone <i>(For TRANSIT vehicles- modify milestones accordingly or use Uniform Transit Application)</i>	Anticipated Date	Notes on schedule (flexibility, worst-case schedule)
Project Cost Estimates/Scope Developed	10/17/23	
Begin Environmental (PA&ED) Phase	12/15/23	
Circulate Draft Env'I Document	Env'I Document	CAT-EX
Draft Project Report	12/27/23	
End Environmental Phase (PA&ED Milestone)	01/15/24	
Begin Design (PS&E) Phase	01/15/24	
End Design Phase (Ready to List for Advertisement Milestone)	04/15/24	
Begin Right of Way Phase	03/18/24	
End Right of Way Phase (Right of Way Certification Milestone)	04/15/24	
Begin Construction Phase (Contract Award Milestone)	07/15/24	
End Construction Phase (Construction Contract Acceptance Milestone)	10/28/24	
Begin Closeout Phase	10/28/24	
End Closeout Phase (Closeout Report)	12/16/24	

Project Cost Summary/Funding Information								
Total Project Cost (\$1,000s) - AUTO FILLS (do not enter numbers here)								
Component	Prior	21-22	22-23	23-24	24-25	25-26	26-27	Total
E&P (PA&ED)	0	0	0	0	0	0	0	0
PS&E	0	0	0	0	0	0	0	0
R/W SUP (CT)	0	0	0	0	0	0	0	0
CON SUP (CT)	0	0	0	0	0	0	0	0
R/W	0	0	0	0	0	0	0	0
CON	0	0	5,107,873	0	0	0	0	5,107,873
TOTAL	0	0	5,107,873	0	0	0	0	5,107,873

Fund No. 1:	NEW FUNDS REQUESTED FROM RTC								<i>SCCRTC is expected to consider proposals at its December 7, 2023 meeting</i>
Fiscal Year									
Component	Prior	23-24	24-25	25-26	26-27	27-28	28-29	Total	Are there certain fund sources (e.g. federal, STIP)
E&P (PA&ED)								0	RSTPX/ STBG Funds preferred if available due to immediate need for this work and ability of the County for fast project delivery, however County is open to all available funding
PS&E								0	
R/W SUP (CT)								0	
CON SUP (CT)								0	
R/W								0	
CON			4,522,000					4,522,000	
TOTAL	0	0	4,522,000	0	0	0	0	4,522,000	

Fund No. 2:	LOCAL FUNDS								Funding status	
Fiscal Year									Are these funds secured?	Yes
Component	Prior	23-24	24-25	25-26	26-27	27-28	28-29	Total		
E&P (PA&ED)								0	If no, when will you know if funds are secured?	Local Roads Funds for match are available and will be allocated upon grant award
PS&E								0		
R/W SUP (CT)								0	What risks are there to these funds, if any?	N/A
CON SUP (CT)								0		
R/W								0		
CON			585,873					585,873		
TOTAL	0	0	585,873	0	0	0	0	585,873		

C2. ENGINEERS ESTIMATE

Project: Emergency Routes Phase 2 Resurfacing Project

**COUNTY OF SANTA CRUZ
DEPARTMENT OF PUBLIC WORKS
ENGINEER'S ESTIMATE**

Made by CRC

Checked by CRC

Job Number

Bid Opening

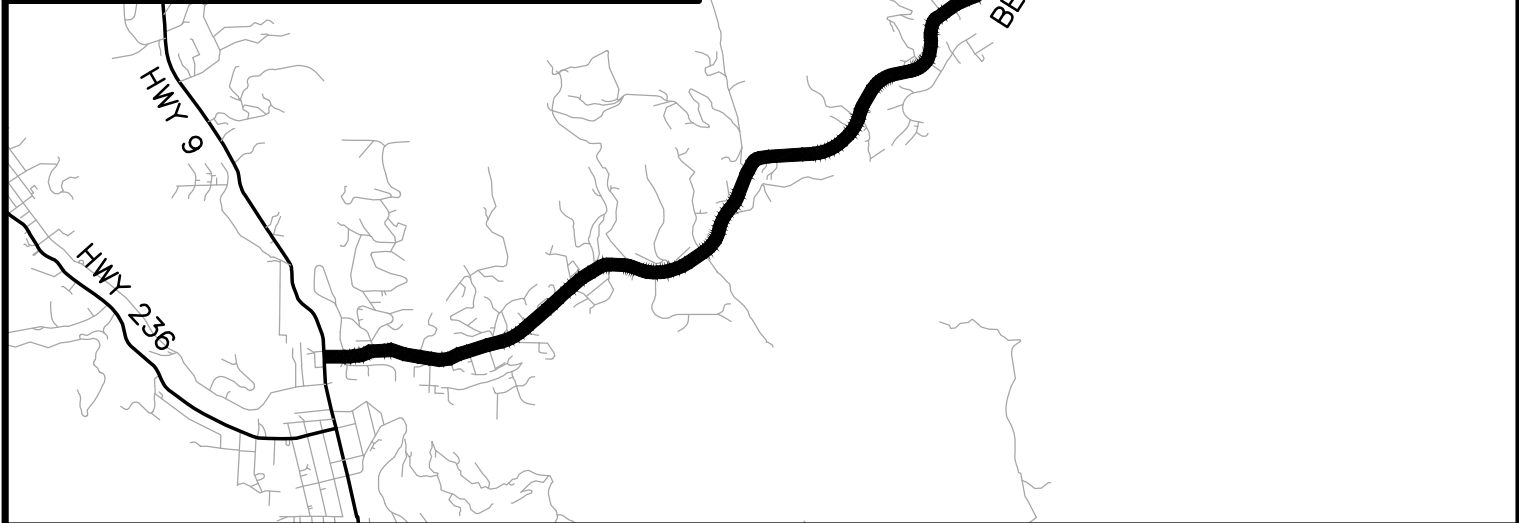
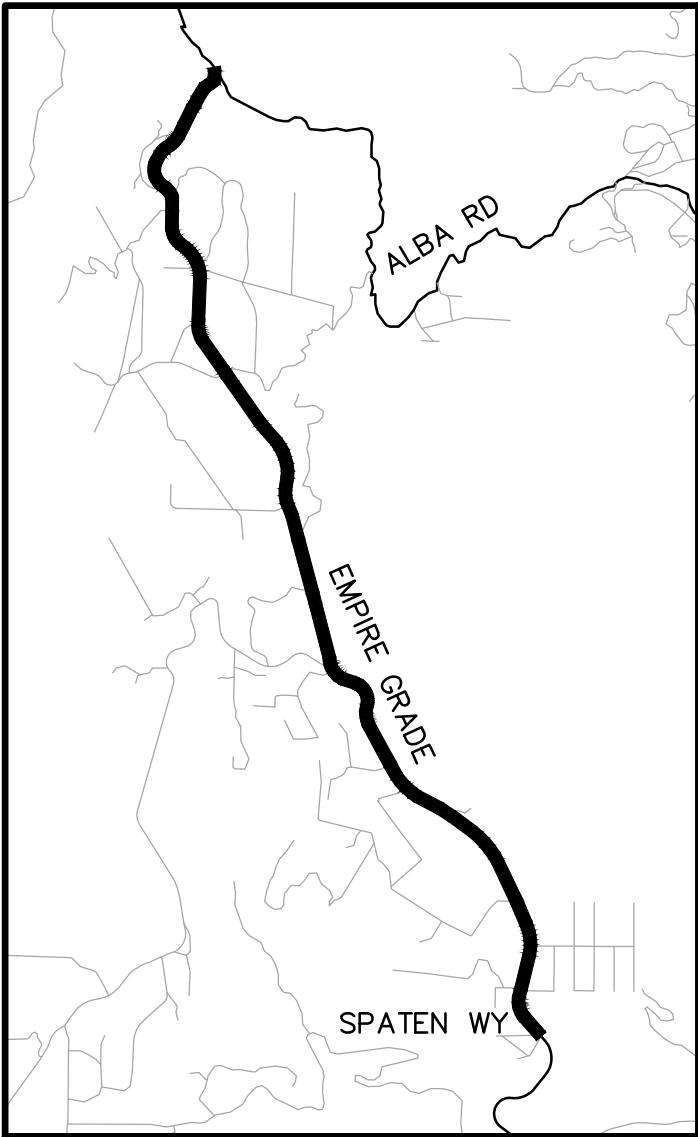
PROJECT: Emergency Routes - Phase 2 Resurfacing Project

LOCATION: Empire Grade (Spaten Wy to Alba Rd)
Bear Creek Rd (Hwy 9 to PM 4.75)

DESCRIPTION: Estimate for Construction

Item No.	Item Description	Unit	Quantity	Unit Price	Amount
1	TRAFFIC CONTROL SYSTEM	LS	1	\$200,000.00	\$200,000.00
2	CLEARING AND GRUBBING	LS	1	\$50,000.00	\$50,000.00
3	GRIND AC PAVEMENT	SF	64,940	\$3.00	\$194,820.00
4	4" DIGOUT	SF	33,290	\$8.00	\$266,320.00
5	ASPHALT CONCRETE (TYPE A - 1/2" MAXIMUM, MEDIUM)	TON	12,150	\$190.00	\$2,308,500.00
6	SHOULDER BACKING PLACEMENT	TON	380	\$100.00	\$38,000.00
7	ASPHALT RUBBER CAPE SEAL	SY	19,710	\$9.00	\$177,390.00
8	ASPHALT RUBBER CHIP SEAL	SY	107,950	\$5.50	\$593,725.00
9	REPLACE DESTROYED MONUMENT	EA	5	\$1,500.00	\$7,500.00
10	(S) THERMOPLASTIC STRIPING 4 IN WHITE	LF	85,610	\$1.60	\$136,976.00
11	(S) THERMOPLASTIC STRIPING-DETAIL 2 (DASHED LANE LINE)	LF	1,000	\$1.00	\$1,000.00
12	(S) THERMOPLASTIC STRIPING-DETAIL 16 (HALF DASHED CENTERLINE)	LF	600	\$1.60	\$960.00
13	(S) THERMOPLASTIC STRIPING-DETAIL 22 (DBL YELLOW)	LF	41,210	\$3.30	\$135,993.00
14	(S) THERMOPLASTIC STRIPING-PAVEMENT MARKINGS	SF	50	\$5.50	\$275.00
15	(S) RETROREFLECTIVE PAVEMENT MARKER - BLUE TYPE BB	EA	10	\$30.00	\$300.00
16	(S) BOTTS DOTTS RUMBLE STRIP	EA	2	\$5,000.00	\$10,000.00
17	CALTRANS ENCROACHMENT PERMIT	EA	1	\$5,000.00	\$5,000.00

Funding Information			Contract Total	=	\$4,126,759
Job Number	Source	Appropriation	Contingency	10%	\$412,676
	2023 RTIP Grant Cycle Request	\$4,522,000	Sub-Total	=	\$4,539,435
	Required 11.47% Local Match	\$585,873	Inspection	10%	\$453,943
			Design		\$114,495
	Total Funding:	\$5,107,873	TOTAL	=	\$5,107,873



EMERGENCY ROUTES PHASE 2
EMPIRE GRADE (SPATAN WY TO ALBA RD)
BEAR CREEK RD (HWY 9 TO PM 4.75)

2023 CONSOLIDATED REGIONAL
 TRANSPORTATION GRANT
VICINITY MAP

DESIGN: CRC/DAM

DATE: 10/23/23

SHEET

DRAFTING: CRC/DAM

SCALE: 1"=3000'

D1

CHECKED:

JOB NO: -

Part D – Site Photos (Emergency Routes Phase 2)



Part D – Site Photos (Emergency Routes Phase 2)



Part D – Site Photos (Emergency Routes Phase 2)



E. CERTIFICATION AND ASSURANCES

As authorized representative for my agency, I hereby certify that the information contained in this application, including required attachments, is accurate and hereby certify the following:

Project:	Emergency Routes Phase 2 Resurfacing Project	INITIALS
1	The project implementing agency possesses legal authority to nominate projects and to finance, acquire, construct, and/or implement the proposed project;	DS MM
2	This project is among the highest priorities for this agency;	DS MM
3	The proposed transportation investments have received the full review and vetting required by law;	DS MM
4	Such investments are an appropriate use of taxpayer dollars. The agency shall adhere to principles and policies that ensure government oversight and management of the contracting process to ensure taxpayer funds are spent wisely; contracts are not wasteful, inefficient, or subject to misuse; unnecessary no-bid and cost-plus contracts are avoided; and contracts are awarded according to the best interests of California taxpayers;	DS MM
5	The agency will maintain and operate the property acquired, developed, rehabilitated, or restored for the life of the resultant facility(ies) or activity. I understand that with the approval of the California Department of Transportation, the Administering Agency or its successors in interest in the property may transfer the responsibility to maintain and operate the property;	DS MM
6	If these new funds are used to replace funds previously committed to this project, the agency will maintain its effort with regard to redirecting those funds to similar transportation projects;	DS MM
7	The agency will give RTC and California Department of Transportation's representative access to and the right to examine all records, books, papers, or documents related to the project;	DS MM
8	Work on the project shall commence within a reasonable time after receipt of notification that funds have been approved, allocated or obligated, as applicable, and that the project will be carried to completion with reasonable diligence;	DS MM
9	The agency will comply where applicable with provisions of the California Environmental Quality Act, the National Environmental Policy Act, the Americans with Disabilities Act, the Secretary of the Interior's Standards and Guidelines for Archaeology and Historic Preservation, and any other federal, state, and/or local laws, rules and/or regulations;	DS MM
10	The agency shall comply with all reporting requirements outlined by FHWA, FTA, RTC, Caltrans, the California Transportation Commission (CTC) or state statute, as applicable;	DS MM
11	The agency will commit the funds necessary to ensure this project is fully funded.	DS MM

Implementing Agency Representative:

DocuSigned by:

 Signed _____
 50EBA034456C49C...
 Printed (Name and Title)
 Implementing Agency

Date 10/20/2023

 Matt Machado, Deputy CAO/ Director of Community Development & Infrastructure
 County of Santa Cruz



County of Santa Cruz

Department of Community Development and Infrastructure

701 Ocean Street, Fourth Floor, Santa Cruz, CA 95060
Planning (831) 454-2580 Public Works (831) 454-2160
sccoplanning.com dpw.co.santa-cruz.ca.us

Matt Machado - Deputy CAO / Director

Jocelyn Drake
Assistant Director
Permit Division

Stephanie Hansen
Assistant Director
Housing & Policy

Kent Edler
Assistant Director
Special Services

Steve Wiesner
Assistant Director
Transportation

Travis Cary
Director
Capital Projects

Kim Moore
Assistant Director
Administration

Exhibit 25-K: Local Road Rehabilitation Project Certification

To: Santa Cruz County Regional Transportation Commission
1101 Pacific Ave #250
Santa Cruz, CA 95060

Date: 10/24/23

The County of Santa Cruz submits the following local road rehabilitation project for certification that the project is in compliance with California Transportation Commission guidelines.

Project Description: **Emergency Routes Phase 2 Resurfacing Project**

Project will consist of Asphalt Digouts, multiple resurface techniques including Rubberized Cape Seals & Asphalt Overlays, and restriping of project roadways on the following road segments:

- Empire Grade (Spaten Way to Alba Rd)
- Bear Creek Rd (State Hwy 9 to PM 4.75)

Street/Road (Noted Above)	From (Noted Above) To (Noted Above)	Local Road Facility Pavement Preservation	PPNO TBD	Rehabilitation Strategy Rubberized Cape Seals & Asphalt Overlays	Service Life (Years) 10

The project listed above meets the following standards:

- The type of work is eligible for local road rehabilitation, and excludes routine maintenance work, as described in Section II-D-9: "Eligibility of Rehabilitation Projects" of the Procedures for Administering Local Agency Grant Projects in the State Transportation Improvement Program.
- For pavement rehabilitation, the estimated number of years the work will extend the service life of the facility is documented in a PSR or equivalent signed by a registered civil engineer.
- Pavement rehabilitation strategies with less than 10 year service life have been determined by a Pavement Management System (PMS) to be cost-effective and have a service life of 5 years or more. (Attach PMS certification if appropriate).
- The work does not degrade any existing safety or geometric aspect of the facility.

County Signature: _____

Title: Senior Civil Engineer

Date: 10/24/23

Regional Transportation Planning Agency/County Transportation Commission Certification

The Santa Cruz County Regional Transportation Commission (SCRTC) certifies the projects listed above meet California Transportation Commission guidelines.

RTPA Signature: _____

Title: _____

Date: _____



County of Santa Cruz

Department of Community Development and Infrastructure

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Director
Capital Projects

Kim Moore
Assistant Director
Administration

Exhibit 25-L: Pavement Management System (PMS) Certification State Transportation Improvement Projects

To: Santa Cruz County Regional Transportation Commission
1101 Pacific Ave #250
Santa Cruz, CA 95060

Date: 10/24/23
PPNO: TBD

Project Description: **Emergency Routes Phase 2 Resurfacing Project**

Project will consist of Asphalt Digouts, multiple resurface techniques including Rubberized Cape Seals & Asphalt Overlays, and restriping of project roadways on the following road segments:

- Empire Grade (Spaten Way to Alba Rd)
- Bear Creek Rd (State Hwy 9 to PM 4.75)

The County of Santa Cruz certifies that it has a Pavement Management System (PMS) and the project meets the criteria described in this chapter. A system must be in place to meet standards for pavement rehabilitation projects programmed in the STIP.

The system was developed by StreetSaver, MTC and contains, at a minimum, the following elements:

- Inventory of all existing pavements under the County's jurisdiction.
Centerline miles: 586
Total lane miles (or equivalent units): 1189
The last update of the inventory was completed: May 2018
- Sections of pavement needing rehabilitation
Total lane miles (or equivalent units): 925
- Estimated cost to rehabilitate deficient sections: \$490,000,000
- Procedure to identify rehabilitation strategies that are cost effective:
The County uses the StreetSaver pavement management system to catalog County maintained road sections and maintain pavement condition assessments of those sections using the Pavement Condition Index (PCI) ranking system. This program has a built in decision tree which specifies appropriate and cost effective resurfacing treatments for different PCI ranges. Based on the current PCI of the road section in question, the program can identify appropriate resurfacing techniques for that section.

You may direct any questions regarding the County's Pavement Management System to:
Casey Carlson, Senior Civil Engineer at: (831) 454-3102

County Signature: _____

Title: Senior Civil Engineer

Date: 10/24/23