

# **MENDOCINO COUNTY STATE-FUNDED TRANSPORTATION PROJECTS HIGHLIGHTS**

**CALIFORNIA TRANSPORTATION COMMISSION PRESENTATION  
APRIL 18, 2024**

# Presentation Outline

- \$12M LTCAP - Brooktrails Second Access Project
- \$12M LTCAP - Redemeyer Road Extension Project
- \$913k CRRSAA/STIP - North State Street Bridge Replacement over Ackerman Creek
- \$16.2M STIP - North State Street Intersection and Interchange Improvements
- \$2M STIP - supplement to RMRA Corrective Maintenance project on Mountain View Road.

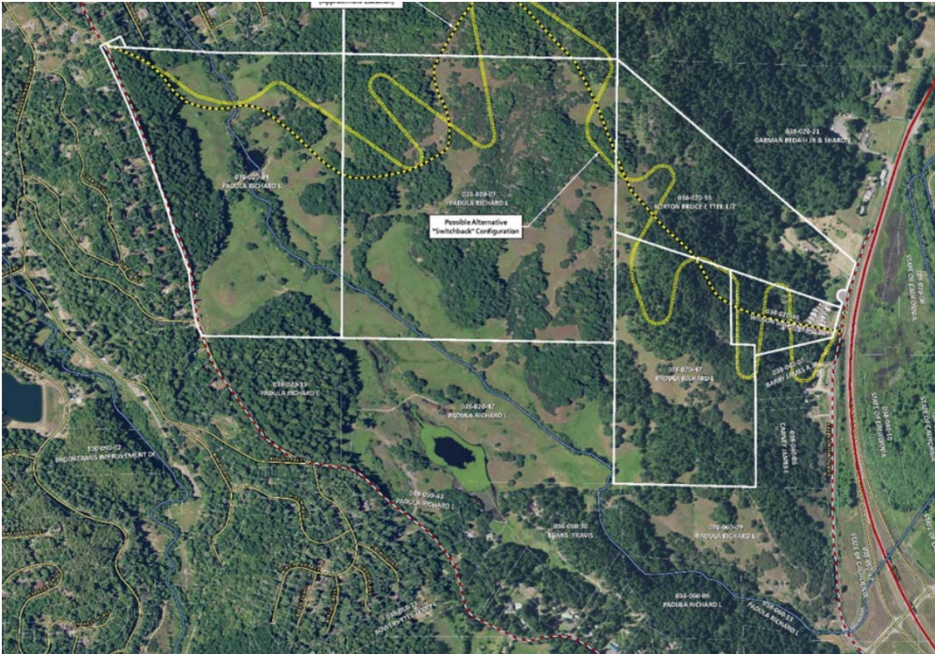
Local Transportation Climate Adaptation Program (LTCAP)

State Transportation Improvement Program (STIP)

Coronavirus Response and Relief Supplemental Appropriations Act of 2021 (CRRSAA)

Road Maintenance and Rehabilitation Account (RMRA) – SBI funds

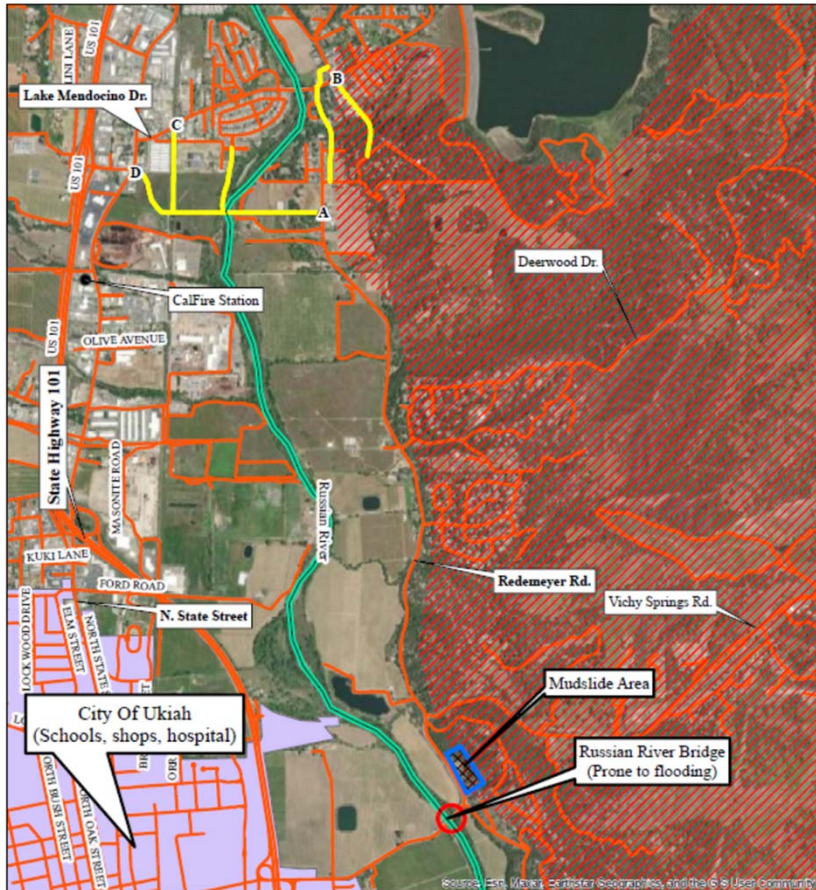
# BROOKTRAILS SECOND ACCESS PROJECT – 2 miles, Collector connecting to North Main Street in Willits PA&ED and PS&E



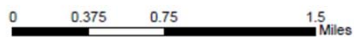
*Rendering of bridge over Upp Creek*



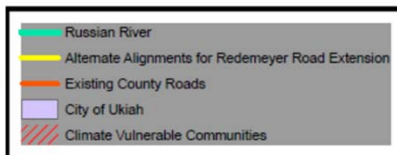
# Redemeyer Road Extension Project – 2 miles, two-lane Major Collector connecting to North State Street in Ukiah



Redemeyer Road Extension



Project Location Map

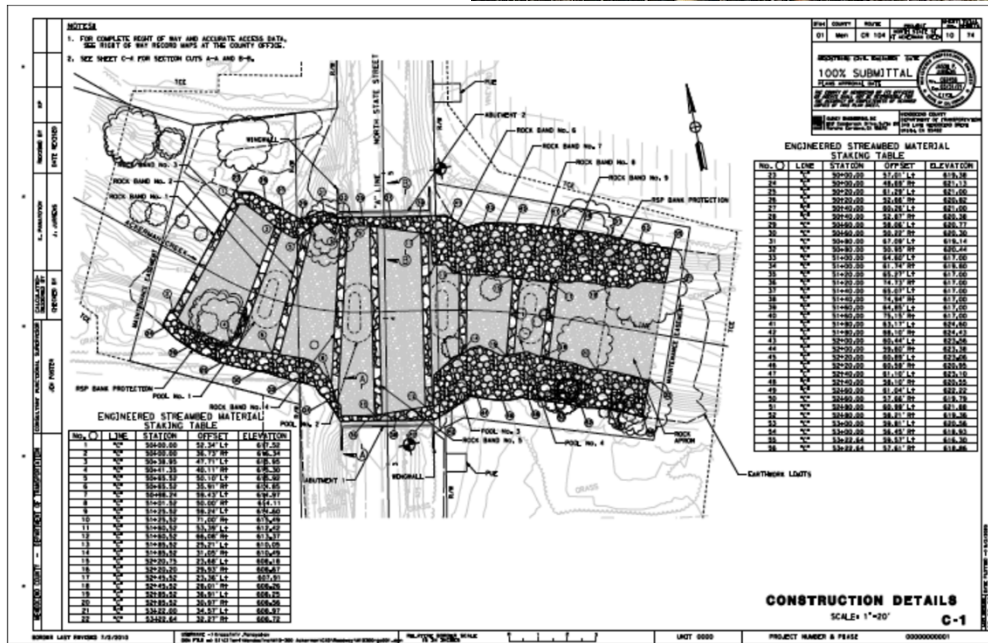


*Rendering of one proposed alternate*



# North State Street Bridge over Ackerman Creek

Pinoleville Pomo  
Nation Ackerman  
Creek Restoration  
Project





# North State Street Intersection and Interchange Improvements



# RMRA Project Implementation with STIP RRR Augmentation

- 1,018 maintained miles
- 2016 Statewide Needs Assessment listed Mendocino County as having \$602 million in pavement needs
- RMRA will provide ~\$5.5M/yr for 20 years
- Mendocino County's long-range guidance plan lists 357 miles for Corrective Preventative Maintenance

Resurfacing, Restoration, and Rehabilitation (RRR)

Year 1 (2019-20): Chip seal treatments of 8 +/- miles of salvageable road segments in a pavement preservation strategy. Cold in place recycle (CIP) treatment with chip seal of 8 +/- miles of roads segments with delimited layers of oxidized asphalts and chip seals where emulsion and grinding is effective. Deep dig outs of all base failures.  
(Total 16.03 miles program \$3.460 million)

County Road (CR) Name	Beginning Milepost (MP)	Ending MP	Total Length	PCI	ADI
Basin View Drive, CR 447	0.00	0.16	0.16	10	104
Noyo Acres Drive, CR 415F	0.00	0.67	0.67	34	275
Benson Lane, CR 415E	0.00	0.70	0.70	18	1,072
Summers Lane, CR 415D	0.00	0.63	0.63	69	315
Hanson Road, CR 415H	0.00	0.68	0.68	42	583
Ward Avenue, CR 425B	0.00	1.36	1.36	15	514
Boice Lane, CR 413	0.00	1.26	1.26	24	759
Pearl Drive, CR 412A	0.00	0.56	0.56	22	322
Fort Bragg Sherwood Road, CR 419	0.00	4.00	4.00	38	779
Simpson Lane, CR 414	0.00	3.60	3.60	91	3,559
Mitchell Creek Drive, CR 414B	0.00	2.02	2.02	49	1,161
Ellison Way, CR 414A	0.00	0.39	0.39	25	

Year 2 (2020-21): Chip seal treatments of 15 +/- miles of salvageable road segments in a pavement preservation strategy. CIP treatment with chip seal of 7 +/- miles of roads segments with delimited layers of oxidized asphalts and chip seals where emulsion and grinding is effective. Deep dig outs of all base failures.  
(Total 22.16 miles program \$3.51 million)

County Road Name	Beginning MP	Ending MP	Total Length	PCI	ADI
Flynn Creek Road, CR 135	0.00	8.97	8.97	38	268
Albion Little River Road, CR 403	0.00	3.19	3.19	49	204
Comptche Ukiah Road, CR 223	0.00	10	10	73	1,152

Year 3 (2021-22): Asphalt overlay of 8 +/- miles in a rehabilitation strategy. Deep dig outs of all base failures. (Total 8 miles program \$3.89 million)

County Road Name	Beginning MP	Ending MP	Total Length	PCI	ADI
Orr Springs Road, CR 223	29.02	37.02	8.00	19	181



# RMRA Project Implementation with STIP RRR Augmentation

- Preventative Maintenance work can be done sooner with more funding.
- More Corrective Maintenance on main roads could be done.

**Year 6 (2024-25):** Chip seal treatments of 25.68 +/- miles of salvageable road segments in a pavement preservation strategy. Deep dig outs of all base failures.  
(Total 25.68 miles program \$4.3 million)

<u>County Road Name</u>	<u>Beginning MP</u>	<u>Ending MP</u>	<u>Total Length</u>	<u>PCI</u>	<u>ADT</u>
Mountain View Road, CR 510	0.00	25.68	25.68	51	403



- Transportation needs in order of importance:
  - Traffic Safety
  - System Maintenance and Preservation RMRA - Road Maintenance and Rehabilitation Account
  - System Completion (providing improvements on major roadways)
  - Congestion Relief
  - System Expansion



# What to do with Added Gas Tax? New Pavement



## Asphalt Concrete (AC)

- Improved rideability
- 20+ year life
- Can double life with periodic pavement preservation treatments



**AC** overlay very costly @ roughly \$0.5 million per mile



# New Approach: Recycle in Place



Spread some cement out to grind into old road surface & Aggregate Base Rock (AB)

Grind down 4 to 6 inches



Add H<sub>2</sub>O or emulsion



Add H<sub>2</sub>O or emulsion and/or liquid cement mix



Chip Seal emulsion

Compacted recycled AB w/ emulsion cement mix

Chip Seal chips



# 1<sup>st</sup> 5 years of Mendocino County Preventative Maintenance



Aggregate hopper



Emulsion tank

## Micro Seal - Cape Seal

- A single to multi-layer application(s) of emulsion mixed with aggregate
- First layer - a slurry seal of emulsion and sand to fill large cracks
- Middle layer(s) - rubberized chip (crushed rock coated in oil and melted rubber) or "seal layer" (wearing surface)
- Last layer - fog seal of thick black emulsion
- This treatment is hoped to last approximately 15 years
- Slower to dry (break)... one lane closed
- \$100k per mile depending on number of layers



# 1<sup>st</sup> 5 years of Mendocino County Preventative Maintenance

Chip Seal has been the standard on Mendocino County surfaced roads, 90% through history – before 1990s MCDOT averaged 100 miles per year – today, Chip Seal: \$50k/mile



Emulsion (cold) dries slower



Compact pneumatic roller



New wearing surface – ride is the same



# Mendocino County Sea Level Rise Roadway Impact Study

Caltrans Climate Adaptation Planning Grant  
(Requested)

Awaiting Award Announcement – Summer 2024  
(\$400,000 total, including match)

Anticipated start date – November 2025  
Anticipated completion – June 2026



Point Cabrillo Road

# Mendocino County Sea Level Rise Roadway Impact Study

## PROJECT DESCRIPTION/GOALS:

- Develop a feasibility study to identify, analyze, and propose modifications to at-risk Mendocino County coastal roads vulnerable due to impacts of Sea-Level Rise & climate change
- Study will include in-depth data collection, mapping, & analysis
- Final report of at-risk roads, existing conditions, prioritization, and feasible alternatives for modifications



# Additional Information- Questions?

- Save California Streets - [www.savecaliforniastreet.org](http://www.savecaliforniastreet.org)