

TAM Board Meeting Caltrans Report

PROJECTS IN INITIATION PHASE

Rehabilitate Pavement (CAPM); MRN-131 PM 0.00/4.4; On Route 131 (Tiburon Blvd) from US 101/131 interchange to Main Street (EA: 04-1Q230)

Scope: Overlay Pavement, upgrade curb ramps, add/replace guardrails and improve drainage.

Cost Estimate: \$11M (Construction Capital)

Schedule: Start Construction: Summer 2024
End Construction: Summer 2025

Address Seismic Deficiencies and Upgrade Pedestrian Infrastructure; MRN-101 PM 7.4/18.8; On Route 101 at Tamalpais Overcrossing (EA: 04-4J860)

Scope: Install cable restrainer at bridge abutments to improve seismic resistance, and upgrade Pedestrian Overcrossing (POC) to meet ADA standards.

Cost Estimate: \$18M (Construction Capital)

Schedule: Start Construction: Fall 2024
End Construction: Fall 2025

Resurface Deck and Replace Fender System; MRN-37 PM 14.5; Petaluma River Bridge (EA: 04-2Q500)

Scope: Resurface bridge deck, replace bridge fender system, mitigate bridge scour, and upgrade bridge railings.

Cost Estimate: \$ 32M (Construction Capital)

Schedule: Start Construction: Spring 2025
End Construction: Fall 2026

Drainage System Restoration; MRN-1 PM 13.1/44.9; On Route 1 from 0.7 mile north of Stinson Beach to 0.5 mile north of Walker Creek (EA: 04-2Q530)

Scope: Replace 29 deteriorated drainage culverts within the project limits, replace headwalls, and install drainage inlets.

Cost Estimate: \$6.5 M (Construction Capital)

Schedule: Start Construction: Spring 2025
End Construction: Spring 2027

Repair/Replace Culverts; MRN-1 PM 13.05/45.1; On Route 1 at various locations from 0.2 mi north of Calle del Arroyo to 0.2 mi south of Tomales-Petaluma Rd. (EA: 04-3A250)

Scope: Repair/Replace 21 damaged/deteriorated cross culverts within the project limits, replace headwalls, and install drainage inlets.

Cost Estimate: \$3.6M (Construction Capital)

Schedule: Start Construction: Spring 2025
End Construction: Spring 2027

Upgrade and Replace Existing Bridge Railing Systems (Coyote Creek Bridge-# 27-0018, Eskoot Creek Bridge-#27-0077, Olema Creek Bridges-#27-0020 & #27-0021); MRN-1 PM 7.4/18.8; On Route 1 at various locations (EA: 04-0P960)

Scope: Upgrade/replace the bridge railings systems to meet the current standard on four bridges along Route 1.

Cost Estimate: \$8.1M (Construction Capital)

Schedule: Start Construction: Spring 2025
End Construction: Fall 2026

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Replace Culvert; MRN-1 PM 40.3/40.3; On Route 1 near Marshall at 0.10 mile south of Clark Road (EA: 04-2J510)

Scope: Replace existing 66-inch diameter culvert and rebuild slope.

Cost Estimate: \$2.3M (Construction Capital)

Schedule: Start Construction: Spring 2025
End Construction: Spring 2027

Rehabilitate Pavement (CAPM); MRN-37 PM R11.2/14.6; On Route 37 from Route 101/37 interchange to Petaluma River Bridge. (EA: 04-2K740)

Scope: Overlay pavement with asphalt concrete and mitigate roadway settlement at post mile (PM) 13.04.

Cost Estimate: \$19 M (Construction Capital)

Schedule: Start Construction: Spring 2025
End Construction: Spring 2026

PROJECTS IN ENVIRONMENTAL PHASE

Marin 1 Capital Preventive Maintenance Project (CAPM); MRN-1 PM 22.8/31.2 & 45.0/50.5; On Route 1 near Point Reyes Station & Olema, from Olema Creek to north of Cypress Road & on Route 1 near Tomales, from south of Tomales-Petaluma Road to south of Valley Ford Road (EA: 04-1J960)

Scope: Overlay pavement and shoulders with HMA-A, upgrade existing guardrails and crash cushions, and drainage improvements.

Cost Estimate: \$24.4 M (Construction Capital)

Schedule: Start Construction: Spring 2023
End Construction: Fall 2024

A public outreach informational meeting was held on April 2, 2019. The next public outreach informational meeting is anticipated in Spring 2020.

San Antonio Creek Bridge Scour Mitigation; MRN/SON-101 PM 0.0; On Route 101, near City of Petaluma, at Sonoma/Marin County line (EA: 04-3J080)

Scope: Mitigate scour and preserve the structural integrity of the northbound San Antonio Creek Bridge and mitigated scour at southbound San Antonio Creek bridge abutment left in place by MSN B3 project. The project will also minimize the flooding potential at the site by clearing drainage ditches of silt.

Cost Estimate: \$997K (Construction Capital)

Schedule: Start Construction: Summer 2022
End Construction: Winter 2023

The northbound San Antonio Creek Bridge will be relinquished to the County upon completion of the scour mitigation repairs.

Repair Culverts; MRN-101 PM 11.2; On Route 101 at Irwin Creek Bridge, Bridge #27-0097 (EA: 04-0K510)

Scope: Rehabilitate corrugated metal arch culvert bridge and four adjoining deteriorated culverts.

Cost Estimate: \$1.9M (Construction Capital)

Schedule: Start Construction: Fall 2022
End Construction: Summer 2023

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PROJECTS IN DESIGN PHASE

Marin-Sonoma Narrows Contract B6 – Replace Bridge; MRN/SON -101 PM MRN-101 27.0/27.6 & SON-101 0.0/0.3; On San Antonio Road (local road) near Petaluma, 0.6 miles north of Route 101 (EA: 04-2640S)

Scope: Construct a two-lane bridge.

Cost Estimate: \$5.2M (Construction Capital)

Schedule: Start Construction: TBD
End Construction: TBD

Caltrans was the lead for the environmental phase. The lead agency for Design, R/W and Construction is yet to be determined. The project sponsor is Marin County. The County has held two public information public meetings on this project.

North/South Greenway Gap Closure Project (Northern Segment); MRN-101 PM 8.4/8.6; On Route 101 in Larkspur, at East San Francis Drake Blvd (EA: 04-1A661)

Scope: Construct a new bike path on Corte Madera Creek Bridge (off-ramp)

Cost Estimate: \$6.0M (Construction Capital)

Schedule: Start Construction: Summer 2019 (RTL in October 2019)
End Construction: Fall 2020

Public scoping meetings were held on March 19, 2015, July 29, 2015 and March 21, 2016. The cooperative agreement with TAM for construction has been executed. The freeway maintenance agreement (amendment) with the City of Larkspur has been executed.

Replace Harbor Bridge; MRN-101 PM 10.63/10.87; On Route 101 in San Rafael, from Route 101 off-ramp to 2nd Street at the San Rafael Harbor (EA: 04-4G820)

Scope: Replace existing bridge.

Cost Estimate: \$11.4M (Construction Capital)

Schedule: Start Construction: Spring 2020
End Construction: Winter 2020

The project was presented to the City Council in May 2018. The project will also modify the 2nd Street intersection in San Rafael to improve traffic flow. San Rafael Sanitation District has relocated a sewer line. The project was advertised on October 15, 2018, and bids were opened February 13, 2019. The bids were higher than the allocation. The project will be re-advertised on September 23, 2019, and construction has been delayed from Spring 2019 to Spring 2020.

With the help of the City of San Rafael, Caltrans conducted a public survey to evaluate three alternatives for the loudest and most disruptive phase of the project, pile driving. Based on the results of the survey, the project will close the 2nd Street off-ramp for three-weekend (11 pm Friday to 5 am Monday). Pile driving will occur around the clock during these weekends.

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Lagunitas Creek Bridge; MRN-1 PM 28.51; On Route 1 near Point Reyes Station, at Lagunitas Creek (EA: 04-0G642)

Scope: Replace existing bridge.

Cost Estimate: \$11.6M (Construction Capital)

Schedule: Start Construction: Spring 2021
End Construction: Spring 2022

The Environmental Document (EIR/EA) was completed on June 29, 2018. An informational public meeting was held in September 2018. The project is in litigation (EIR/EA is challenged by Friends of the Green Bridge, et al).

Upgrade Pedestrian Facilities; MRN-1 PM 0.02/2.0 & 0.5/0.76; On Route 1 in and near Mill Valley, at Manzanita Park and Ride lot and the intersection of Almonte Blvd. (EA: 04-2G690)

Scope: Upgrade curb ramps, and construction new curb ramps as per current ADA standards.

Cost Estimate: \$1.98M (Construction Capital)

Schedule: Start Construction: Spring 2020
End Construction: Fall 2020

The project was coordinated with Golden Gate Transit and Marin Transit for bus stop relocation improvements.

Bellam Intersection Improvement; MRN-101/580- PM 9.8/9.9 & PM 4.4/4.7; Northbound Route 101 / Eastbound I-580 Off-Ramp to Bellam Blvd. in San Rafael (EA: 04-0Q270)

Scope: Widen off-ramp, modify intersection, and modify traffic signal.

Cost Estimate: \$2.9 M (Construction Capital)

Schedule: Start Construction: Spring 2020
End Construction: Spring 2021

TAM is the lead for this project, and the project will be implemented via an encroachment permit.

Pavement Overlay and Curb Ramps; MRN-101- PM 14.7; On Route 101 at Lucas Valley Under Crossing in the City of San Rafael (EA: 04-1Q510)

Scope: Construct curb ramps and overlay asphalt pavement.

Cost Estimate: \$1.6M (Construction Capital)

Schedule: Start Construction: Spring 2020
End Construction: Fall 2020

The city of San Rafael is the lead for this project, and the project will be implemented via an encroachment permit.

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Marin-Sonoma Narrows Contract B7 – HOV lane in Marin; MRN – 101- PM 20.8/27.3; On Route 101, in and north of Novato, SB HOV lane from 0.3 miles south of the Marin/Sonoma County line to just south of Franklin Ave. Overhead (4.8 miles), and NB HOV lane from 1.7 miles north of Atherton Ave Overcrossing to 0.3 miles south of the Marin/Sonoma County line (3.6 miles)- (EA: 04-26472)

Scope: Roadway and bridge widening and Redwood Landfill Interchange modification for HOV lanes and standard shoulders and horizontal and vertical roadway alignment correction. The scope does not include utility relocation and R/W acquisition for access control. Roadway work is not in direct conflict with utilities to be relocated.

Cost Estimate: \$104M (Construction Capital)

Schedule: Start Construction: Fall 2020
End Construction: Fall 2023

This project is funded by Local and RM3 funds. TAM is the lead for PS&E of this project. This project combines the mainline improvements of MSN Contracts B1-Phase 2 and A4. Currently, the project is not fully funded for construction. The project sponsors are seeking SB1 funding to fully fund the project.

Marin-Sonoma Narrows Contract B8 – HOV lane in Marin; MRN - 101 – PM 24.0/27.5; On Route 101, from 2.0 miles north of Atherton Ave. Overcrossing to 0.1 miles south of the Marin/Sonoma County (EA: 04-26473).

Scope: line / Relocate utilities located in State R/W on Route 101 and widen and rehabilitate 0.6 miles of San Antonio Road (County Road) to include Class-II bike facility

Cost Estimate: \$4.9M (Construction Capital and Utility Relocation)

Schedule: Start Construction: Spring 2022
End Construction: Spring 2023

This project is funded by Local and RM3 funds. TAM is the lead for PS&E of this project. The project scope is to secure R/W, relocates utility and widen/rehabilitate San Antonio Road for Class II bike lanes. The project could be delayed due to right-of-way acquisitions from private properties.

Restore Damaged Drainage System; MRN-101 PM 0.2; On Route 101, near Sausalito, 0.1 miles south of Alexander Avenue (EA: 04-4J420)

Scope: Replace existing damaged Corrugated Metal Pipe (CMP) down drains with new Corrugated Steel Pipe (CSP) down drains.

Cost Estimate: \$909K (Construction Capital)

Schedule: Start Construction: Summer 2020
End Construction: Fall 2020

New damage at the site is being evaluated, and an interim project is needed before the next winter season to prevent further erosion. This project is being coordinated with NPS, and it will address issues related to scouring/surface drainage within State R/W.

Upgrade Curb Ramps and Sidewalk; MRN-131 PM 0.9; On Route 131, in the Town of Tiburon, at Blackfield Dr. and Greenwood Cove Dr. intersection; (EA: 04-4J450)

Scope: Eliminate 4 free right turns, upgrade curb ramps and sidewalk and install new traffic signals, also install APS system countdown timers.

Cost Estimate: \$2.1M (Construction Capital)

Schedule: Start Construction: Spring 2020
End Construction: Fall 2020

The project is being coordinated with Golden Gate Transit and Marin Transit for bus stop relocation improvements.

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Upgrade Curb Ramps and Sidewalk; MRN-101 PM 13.7; On Route 101, in San Rafael, at Manuel T Freitas Parkway; (EA: 04-4K800)

Scope: Upgrade curb ramps and sidewalk.
Cost Estimate: \$1.0M (Construction Capital)
Schedule: Start Construction: Fall 2020
 End Construction: Summer 2021

The project is being coordinated with Golden Gate Transit and City of San Rafael for bus stop relocation/improvements in City R/W.

Construct Two-way Bike path on Sir Francis OC (Bridge No. 27-0040); MRN-580 PM 3.3/3.4; On Route 580 from Anderson Dr. to 0.7 miles east of Richmond-San Rafael bridge. (04-0Q2730)

Scope: construct a two-way bike-path
Cost Estimate: \$1.1 M (Construction Capital)
Schedule: Start Construction: Nov 2019
 End Construction: Spring 2020

TAM is the lead for this project, and the project will be implemented via an encroachment permit. The bike path will connect to the independent bike path built by (EA: 04-2J680 – Contract 2) or other The Bay Area Toll Authority (BATA) funded project.

PROJECTS IN CONSTRUCTION PHASE

Construct Tie-Back Retaining Wall; MRN-1 PM 10.95; On Route 1 near Stinson Beach, approximately 1.2 miles south of North Panoramic Highway at Web Creek (EA: 04-4S220)

Scope: Replace culvert and backfill sinkhole.
Cost Estimate: \$2.4M (Construction Capital)
Schedule: Completion of the construction contract is anticipated in March 2020.

Construction activities have been completed. The project is in 5-year Plant Establishment Period (PEP) period.

Marin-Sonoma Narrows Contract L1A (MRN) – Follow-up Mitigation Planting and Sound Wall; MRN-101 PM 26.5/27.6, On Route 101 in Novato, at Olive Avenue (EA: 04-264H3)

Scope: Implement follow-up mitigation planting for MSN Phase 1 and construct Sound Wall on northbound Route 101 at Olive Avenue in Novato.
Cost Estimate: \$2.8M (Construction Capital)
Schedule: Completion of the construction contract is anticipated in December 2019.

Construction activities have been completed. The project is in 3-year Plant Establishment Period (PEP) period.

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Marin-Sonoma Narrows Contract B3 - San Antonio Curve Correction; MRN-101 PM 26.5/27.6 & SON-101 0.0/1.2; On Route 101, near Petaluma, from 0.3 miles south of San Antonio Rd. to 1.2 miles north of Marin/Sonoma County line (EA: 04-26409)

Scope: Realign Route 101 to the west to correct horizontal alignment and construct a new mainline San Antonio Creek Bridge. The project has extended the frontage roads and pedestrian/bicycle facility built by other MSN contracts.

Cost Estimate: \$64.5M (Construction Capital)

Schedule: Project was awarded on January 21, 2016. Completion of the construction contract is anticipated in December 2019.

The ground-breaking ceremony was held on July 6, 2016. Construction is substantially complete. Project is addressing final punch list items for relinquishment of frontage Road/Bike Path to the County. A ribbon-cutting ceremony is being scheduled.

Route 580/101 HOV Gap Closure Mitigation Planting; MRN-101 PM 9.7/12.7; On Route 101 in San Rafael, at Brookdale Area and offsite riparian mitigation planting (EA: 04-2261H)

Scope: Follow-up Mitigation Planting for the Marin Route 580/101 HOV Gap Closure Project.

Cost Estimate: \$219K (Construction Capital); \$490K (Offsite Mitigation)

Schedule: Construction activities have been completed. The construction contract will be accepted in December 2021 after a 5-year Plant Establishment Period (PEP).

TAM is the lead for this project, and the project is being implemented via an encroachment permit. Caltrans is the lead for off-site mitigation. The off-site mitigation includes the restoration of a portion of Glenview Creek by California State Parks and the acquisition and transfer of the 2.1 acres Sausalito Lincoln/Butte parcel to Open Space Sausalito for preservation as permanent open space. The Brookdale parcel will be relinquished to the City of San Rafael after the Plant Establishment Period (PEP).

Construct Retaining Wall; MRN-1 PM 10.9; On Route 1 near Stinson Beach, approximately 1.2 miles south of North Panoramic Highway - Emergency Directors Order Contract (EA: 04-4K240-S1)

Scope: Construct retaining wall.

Cost Estimate: \$18.5M (Construction Capital)

Schedule: Project was awarded on February 26, 2017. Completion of the construction contract is anticipated in Spring 2020.

The DO was amended to accommodate new damage at the site. The project requires one-way traffic control.

Construct Sheet-Pile Retaining Wall and Slope Armoring; MRN-1 PM 33.4; On Route 1 near Point Reyes Station, at Millerton Gulch Bridge - Emergency Directors Order Contract (EA: 04-4K500)

Scope: Construct sheet pile retaining wall and rebuild slope.

Cost Estimate: \$2.6M (Construction Capital)

Schedule: Substantial construction activities have been completed. The construction contract will be accepted after Phase 1 Plant Establishment Period (PEP) in November 2019. Phase 2 of the PEP and off-site mitigation of this project will be completed by EA: 04-0J570, currently in construction.

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**Replace Culvert & Repair Washout; MRN-1 PM 22.7/22.8; On Route 1 near Olema, at Giacomini Creek -
Emergency Directors Order (EA: 04-4K850)**

Scope: Construct a box culvert (PM 22.78) and install sheet piles (PM 22.8).

Cost Estimate: \$4.2M (Construction Capital)

Schedule: Emergency Directors Order (DO) approved on April 12, 2017. Construction is substantially complete. Completion of the construction contract is anticipated in November 2019 after one-year Plant Establishment Period (PEP).

**Replace Culvert & Repair Embankment; MRN-1 PM 35.3; On Route 1 near Marshall, 3.2 miles south of
Marshall-Petaluma Road – Emergency Directors Order (EA: 04-4K860)**

Scope: Replace culvert and embankment.

Cost Estimate: \$1.4M (Construction Capital)

Schedule: Emergency Directors Order (DO) approved on April 12, 2017. Completion of the construction contract is anticipated in Summer 2020.

Scour Mitigation; MRN-101 PM 15.35; On Route 101 at Miller Creek Bridge (EA: 04-4G871)

Scope: Scour mitigation.

Cost Estimate: \$1.0M (Construction Capital)

Schedule: Construction has been completed. The contract will be accepted in Fall 2021 after a 3-year Plant Establishment Period (PEP).

**Bicycle/Pedestrian Facility on Richmond-San Rafael Bridge; CC/MRN-580 PM CC 0.0/ 4.8 & MRN 4.8/7.8; On
Route 580 at Richmond-San Rafael Bridge (EA: 04-2J680 – Contract 2)**

Scope: Extend the bicycle/pedestrian path across the Richmond-San Rafael Bridge and to complete connections to the existing Bay Trail segments on the Marin County side of the Richmond-San Rafael Bridge. The bidirectional path will be located on the right shoulder of the westbound 508 (upper deck). The path project is a pilot program that will evaluate usage of the path by bicyclists and pedestrians.

Cost Estimate: \$40.0M (Construction Capital)

Schedule: Completion of the construction contract is anticipated in December 2019. The path will be open to traffic in fall 2019.

The Bay Area Toll Authority (BATA) is the lead for this project, and the project is being implemented via an encroachment permit. This bike path of this project will connect to the bike path to be built by EA 0Q273.

**Construct Retaining Wall and Improve Drainage; MRN-1 PM 0.3; On Route 1 near Mill Valley,
at Tennessee Valley Road. (EA: 04-2J560)**

Scope: Construct Retaining Wall and install drainage gutter.

Cost Estimate: \$1.2 (Construction Capital)

Schedule: Construction contract awarded on November 19, 2018, Construction will commence in April 2019 and completion of the construction contract is anticipated in December 2019.

Construction activities are substantially complete.

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Install Concrete Barrier; MRN-101 PM 475/5.60; On northbound Route 101, from Strawberry Pedestrian Overcrossing (POC) to Tiburon Blvd. off-ramp (EA: 04-4H980)

Scope: Install a concrete barrier along state right-of-way between northbound Route 101 and Redwood Highway Frontage Road.

Cost Estimate: \$6.1M (Construction Capital)

Schedule: Construction contract awarded on January 2, 2019, Construction commenced in March/April 2019 after the rainy season and completion of the construction contract is anticipated in December 2019.

The project was expedited by one year due to a recent accident at the project site. Construction of the safety barrier has been completed.

Marin 101 Ramp Metering - Phase 1; MRN-101 PM 0.0/9.0; On northbound Route 101, at various locations from north of GGB to Route 580 (EA: 04-15161)

Scope: Install ramp metering equipment and TOS elements at 10 locations from GGB to San Francis Drake Blvd., including ramp widening at three locations. TOS element includes changeable message signs, salvage/removal of wireless magnetometer vehicle detection sensors, and installation of inductance loops.

Cost Estimate: \$6.9M (Construction Capital)

Schedule: Construction contract was awarded on December 17, 2018, Construction will commence in March/April 2019 and completion of the construction contract acceptance is anticipated in Fall 2020.

The project also widens Route 131 from North Knoll Rd. to northbound Route 101 on-ramp to address congestion on Tiburon Blvd. TAM presented the project to Mill Valley City Council on May 6 2019.

Regrade and Replace Pavement, Construct Temporary Flood Wall; MRN-37 PM 11.3/11.7; On Route 37, near Novato, from the Route 101 separation to Atherton Avenue (EA: 04- 3Q914)

Scope: Regrade and replace pavement and construct a temporary flood wall.

Cost Estimate: \$3.0M (Construction Capital)

Schedule: Emergency Directors Order (DO) approved on February 16, 2019. Completion of the construction contract is anticipated in spring 2020.

A request for supplement DO is being requested for additional work to address flooding.

Millerton Gulch Bridge Scour Mitigation; MRN-1 PM 33.4; On Route 1, near Point Reyes Station, at Millerton Gulch Bridge – environmental monitoring and off-site mitigation (EA: 04-0J570)

Scope: Follow-up onsite environmental monitoring, and off-site mitigation.

Cost Estimate: \$1.0M (Construction Capital)

Schedule: Construction started in Summer 2019 and completion of the construction contract is anticipated in summer 2023.

Emergency Directors Order (DO) project performed the scour mitigation work. This project was down-scoped to a follow-up off-site mitigation and environmental mitigation project with a 5-year plant establishment and monitoring period.

OTHERS

- Caltrans is working with County of Marin Phase 1 of Bolinas Lagoon project.

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- Caltrans maintenance restored the drainage system (culverts and ditches) along the Bolinas Lagoon to prevent recurring flooding on Route 1 prior to 2018 winter (EA 3Q020). Caltrans is working with the County and local elected official to find solutions to flooding and vegetation management issues along Route 1.