

July 2018

## TAM Board Meeting Caltrans Report

### ***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:** \$13.8M (Construction Capital)

**Schedule:** Start Construction: Spring 2023

End Construction: Fall 2024

**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

Project will also address issues related to scouring/surface drainage in State R/W.

**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 No. 27-0097), repair five culverts (EA: 04-0K510)**

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

**Cost Estimate:** \$1.9M (Construction Capital)

**Schedule:** Start Construction: Fall 2022

End Construction: Summer 2023

**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:** \$1.5M (Construction Capital)

**Schedule:** Start Construction: Fall 2020

End Construction: Summer 2021

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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

## **PROJECTS IN DESIGN PHASE**

### **Repair Pavement and Drainage Systems; MRN-101 PM 10.1; On Route 101 and 580 in San Rafael, at Route 101/580 Interchange (EA: 04-2J480)**

**Scope:** Repair sinking pavement and drainage systems.  
**Cost Estimate:** \$2.66M (Construction Capital)  
**Schedule:** Start Construction: Fall 2018  
 End Construction: Spring 2019

The repair strategy has been revised and previously anticipated weekend closure of southbound 101/I-580 connector is not required.

### **Marin 101 Ramp Metering (FPI), 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:** \$9.2M (Construction Capital)  
**Schedule:** Start Construction: Spring 2019 (RTL in June 2018)  
 End Construction: Spring 2020

The project will install ramp metering equipment and widen northbound 101 at Sir Fran Drake Blvd on-ramp to three lanes in Larkspur and northbound 101 on-ramps at 101/131 interchange. The project also widen Route 131 from North Knoll Rd. to northbound Route 101 on-ramp to address congestion.

### **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:** \$4.0M (Construction Capital)  
**Schedule:** Start Construction: TBD  
 End Construction: TBD

Caltrans was the lead for the Environmental phase. County of Marin is the lead for Design, RW and Construction. County and TAM/County have held two public information public meetings. Environmental revalidation requires a cooperative agreement with the County. Execution of the cooperative agreement is pending County approval of terms and conditions.

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### **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: Fall 2018 (RTL in November 2018)

End Construction: Fall 2019

The first public scoping meeting was held on March 19, 2015. The second and third public scoping meetings were held on July 29, 2015 and March 21, 2016, respectively. The scope was revised to stay within budget. The project requires an amended freeway maintenance agreement with the City of Larkspur.

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

**Scope:** Replace existing bridge.

**Cost Estimate:** \$7.26M (Construction Capital)

**Schedule:** Start Construction: Spring 2019

End Construction: Winter 2019

Coordination with the City of San Rafael is required. Construction of a temporary bridge will minimize traffic impacts. The project was presented to City Council in May 2018. The project will also modify the 2<sup>nd</sup> Street intersection in San Rafael to improve traffic flow. San Rafael Sanitation District Sewers line will be relocated prior to construction.

### **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 sate right-of-way between northbound Route 101 and Redwood Highway Frontage Road.

**Cost Estimate:** \$5.5M (Construction Capital)

**Schedule:** Start Construction: Summer 2018

End Construction: Fall 2018

The project is being expedited by one year due to a recent accident at the project site.

### **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:** Start Construction: Spring 2019

End Construction: Winter 2023

Emergency Directors Order (DO) project performed for scour mitigation. 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.

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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 June 29, 2018. Informational public meeting will be held in September 2018.

### **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 at 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

Transportation Authority of Marin (TAM) has a bike lane striping project at this location in construction (Route 1/ Almonte intersection also known as "TAM Junction"). This project was coordinated with TAM's project to prevent conflicts.

### **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 2019  
End Construction: Winter 2019

This project is administered by Transportation Authority of Marin (TAM).

### **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: Fall 2019  
End Construction: Summer 2020

This project is administered by the City of San Rafael.

### **Marin-Sonoma Narrows Contract A4 – Southbound HOV lane in Marin; MRN-101 PM 20.9/22.6; On Route 101, in Novato, from 0.5 miles north of Atherton Ave. to Franklin Overhead (EA: 04-2640P)**

**Scope:** Construct median widening to add 1.5 mile of HOV Lane on southbound US 101 including bridge widenings

**Cost Estimate:** \$22.5M (Construction Capital)

**Schedule:** Start Construction: Summer 2020  
End Construction: Fall 2022

TAM is the lead for PSE of this project. This project will be combined with Marin-Sonoma Narrows Contract B1-Phase 2.

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**Marin-Sonoma Narrows Contract B1-Phase 2 – HOV lane in Marin; MRN-101 PM 22.6/27.0; On Route 101, near Novato, from 0.5 miles north of Atherton Ave. to 0.6 miles south of the Marin/Sonoma County line (EA: 04-2640R)**

**Scope:** Widen and re-construct US 101 to add HOV lanes and correct the horizontal and vertical roadway profile

**Cost Estimate:** \$56.3M (Construction Capital)

**Schedule:** Start Construction: Summer 2020  
End Construction: Fall 2022

TAM is the lead for PS&E of this project. This project will be combined with Marin-Sonoma Narrows Contract A4.

### **PROJECTS IN CONSTRUCTION PHASE**

**Estero Americano Bridge; MRN/SON-1 PM 50.3/50.5; On Route 1 from 0.1 miles south of Estero Americano Bridge to 0.1 mile south of Valley Ford Road (EA: 04-20950)**

**Scope:** Replace existing bridge.

**Cost Estimate:** \$10.7M (Construction Capital)

**Schedule:** Completion of the construction contract is anticipated in Fall 2019.

Construction contract was awarded on January 4, 2017. Tree removal and utility relocations were completed in Fall 2016.

**Paint Bridge; MRN-580 PM 0.01/2.7; On Route 580 at the Richmond-San Rafael Bridge & in Contra Costa County (EA: 04-3G484)**

**Scope:** Clean and Paint Bridges.

**Cost Estimate:** \$33.9M (Construction Capital)

**Schedule:** Completion of the construction contract is anticipated in Summer 2018.

**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 sink hole.

**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 Summer 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 will extend frontage roads and pedestrian/bicycle facility built by other MSN contracts.

**Cost Estimate:** \$54.9M (Construction Capital)

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

The ground-breaking ceremony was held on July 6, 2016.

**Bridge Rail Replacement; MRN-101 PM 1.5/14.0; On Route 101 at Spencer Avenue Overcrossing, Mar Drive Undercrossing, North Branch Gallinas Creek Bridge and Corte Madera Creek Bridges (EA: 04-4G460)**

**Scope:** Replace bridge rails.

**Cost Estimate:** \$8.7M (Construction Capital)

**Schedule:** Project awarded on January 28, 2016. Completion of the construction contract is anticipated in August 2018.

**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 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 City of San Rafael will take over maintenance of Brookdale Area after the PEP.

**Upgrade Pedestrian Facility; On Routes 1, 131, 116, 128 and 29 in Marin, Sonoma and Napa Counties, at various locations (EA: 04-4A670)**

**Scope:** Upgrade curb ramps, driveways, and sidewalks as per current ADA standards.

**Cost Estimate:** \$250K (Construction Capital)

**Schedule:** Contract Awarded on November 9, 2016. Completion of the construction is anticipated in July 2018.

The project is addressing community concerns in Saint Helena. The project will also construct sidewalk access requested by the City of American Canyon.

**Replace and Regrade Pavement; MRN-37 PM 11.7/12.0; On Route 37 in and near Novato, from Route 101 separation to Novato Creek Bridge - Emergency Directors Order Contract (EA: 04-4K330)**

**Scope:** Replace and re-grade (raise) pavement to address flooding, construct drainage system, and barrier.

**Cost Estimate:** \$8.0M (Construction Capital)

**Schedule:** Project was awarded on February 11, 2017. Completion of the construction contract is anticipated in August 2018.

The construction is substantially complete, and Route 37 is open to traffic.

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**Construct Retaining Wall; MRN-1 PM 10.98; 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 2018.

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. Construction contract will be accepted in May 2019 after Phase 1 of the PEP. Phase 2 of the PEP and off-site mitigation of this project will be completed by EA: 04-0J570, currently in design phase.

**Construct Sheet-Pile Retaining Wall; MRN-1 PM 11.5; On Route 1 near Stinson Beach, 0.6 miles south of Panoramic Highway - Emergency Directors Order Contract (EA: 04-0P130)**

**Scope:** Construct sheet pile retaining wall.

**Cost Estimate:** \$28.6M (Construction Capital)

**Schedule:** Project was awarded on February 26, 2017. Completion of the construction contract is anticipated in October 2018.

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

**Construct Retaining Wall; MRN-1 PM 8.1; On Route 1, near Muir Beach, approximately 2.1 miles north of Muir Beach Road (EA: 04-4S660)**

**Scope:** Construct tie-back retaining wall.

**Cost Estimate:** \$2.2M (Construction Capital)

**Schedule:** Project was awarded in June 2017. Completion of the construction contract is anticipated in September 2018.

**Construct Retaining Wall; MRN-1 PM 2.2; On Route 1 near Mill Valley, 0.2 miles north of Loring Avenue. (EA: 04-1SS58)**

**Scope:** Construct tie-back retaining wall.

**Cost Estimate:** \$2.2M (Construction Capital)

**Schedule:** Project was awarded on June 18, 2017. Completion of the construction contract is anticipated in December 2018.

Construction is substantially complete. The construction contract will be accepted in December 2018 after 1-year Plant Establishment Period (PEP).

**Address Flooding; MRN-1 PM 0.1; On Route 1 in Mill Valley, at Manzanita Park & Ride - Emergency Directors Order Contract (EA: 04-0P000)**

**Scope:** Install check valves at two culverts, repair electrical facility and grind & pave Park & Ride lot.

**Cost Estimate:** \$1.1M (Construction Capital)

**Schedule:** Emergency Directors Order (DO) approved on April 14, 2017. Completion of the construction contract is anticipated in August 2018.

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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. Completion of the construction contract is anticipated in Spring 2019.

**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 December 2018.

The project requires new R/W.

**Construct Retaining Wall; MRN-1 PM 6.6; On Route 1 near Muir Beach, approximately 0.6 miles north of Muir Beach Road -Emergency Directors Order (EA: 04-3S900)**

**Scope:** Construct tie-back retaining wall.

**Cost Estimate:** \$6.2M (Construction Capital)

**Schedule:** Emergency Directors Order (DO) approved on June 13, 2017. Completion of the construction contract is anticipated in September 2018.

The project requires one-way traffic control.

**Construct Retaining Wall; MRN-1 PM 7.7; On Route 1 near Muir Beach, approximately 1.7 miles north of Muir Beach Road - Emergency Directors Order (EA: 04-3S910)**

**Scope:** Construct tie-back retaining wall.

**Cost Estimate:** \$2.4M (Construction Capital)

**Schedule:** Emergency Directors Order (DO) approved on June 13, 2017. Completion of the construction contract is anticipated in September 2018.

The project requires one-way traffic control.

**Construct Retaining Wall; MRN-1 PM 8.2/8.5; On Route 1 near Muir Beach, approximately 2.2 miles north of Muir Beach Road - Emergency Directors Order (EA: 04-4K840)**

**Scope:** Construct tie-back retaining walls (two locations).

**Cost Estimate:** \$3.8M (Construction Capital)

**Schedule:** Emergency Directors Order (DO) approved on June 13, 2017. Completion of the construction contract is anticipated in September 2018.

The project site has new damage that will be addresses by a future project.



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### **Centerline Mumble Strip and Pullouts; MRN-1 PM 3.1/ 50.5; On Route 1 from 0.2 miles west of Erica Road to Valley Ford Road (EA: 04-4H870)**

**Scope:** Install mumble strip on the centerlines and construct pullouts at various locations on Route 1 and shoulder widening in Stinson Beach.

**Cost Estimate:** \$5.0M (Construction Capital)

**Schedule:** Construction started on April 16, 2018 and completion of the construction contract is anticipated by December 2018. Major construction activities will be in summer (June to August) 2018.

Caltrans collaborated with Marin County Bicycle Coalition (MCBC), California Coastal Commission (CCC), State Park (SP) and Golden Gate National Recreation Area (GGNRA) to select sign locations along Route 1. Caltrans will refine the design to address noised related concerns at some locations. Project website provides locations of the mumble street based on the street address.

### **Upgrade Pedestrian Facilities; MRN-101 PM 0.0/8.5 & MRN-131 PM 4.0/4.4; On Route 101 in the Cities of Sausalito, Corte Madera, Larkspur, and Tiburon, at various locations (EA: 04-3G210)**

**Scope:** Upgrade curb ramps, driveways, and sidewalks to current ADA standards.

**Cost Estimate:** \$1.68M (Construction Capital)

**Schedule:** Construction started in May 2018, and completion of the construction contract is anticipated by September 2018.

### **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 started in June 2018, and completion of the construction contract is anticipated in August 2019, after the 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.

**Cost Estimate:** \$40.0M (Construction Capital)

**Schedule:** Completion of the construction contract is anticipated in December 2018.

The Bay Area Toll Authority (BATA) is the lead for this project. The first contract for this project (E/B lane) is open to traffic.

### **Replace Culverts with a Bridge; MRN-1 PM 24.7; On Route 1, approximately 0.6 south of Olema (EA 04-4S780)**

**Scope:** Replace twin culverts with a bridge for fish passageway.

**Cost Estimate:** \$3.3M (Construction Capital)

**Schedule:** Construction started in June 2017, and completion of the construction contract is anticipated in December 2018.

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### OTHERS

- Route 1 is open to traffic but has several one-way controls between Muir Beach and Stinson Beach due to storm damage repair projects. Thirteen Emergency Directors Order (DO) contracts were approved along Route 1 in Marin County, and these DOs are listed as projects in construction.
- Caltrans, County of Marin, City of Mill Valley and Town of Tiburon implemented short-term measures to relieve traffic congestion on Highway 1 at TAM Junction and the Highway 101/Tiburon Blvd./East Blithedale Avenue. Interchange area. Widening of Tiburon Blvd near Highway 101 onramp will be incorporated in ramp metering project (EA 04-15161).
- Caltrans is working with County of Marin to review Phase 1 of Bolinas Lagoon project.
- Caltrans maintenance is working on a plan to restore the drainage system (culverts and ditches) along the Bolinas Lagoon to prevent recurring flooding on Route 1.

### STORM DAMAGE PROJECTS IN ENVIRONMENTAL / DESIGN PHASE

Project EA	Location/Description	Construction Capital Cost	Begin Construction
04-2J560	<p><b><u>Project in Design (PS&amp;E)</u></b>  <u>Location:</u> Route 1, PM 0.3, In Marin County, near Mill Valley, at Tennessee Valley Road.  <u>Scope:</u> Construct retaining wall and improve drainage.            The project will receive construction funding in August 2018</p>	\$1.5M	Spring 2019