



# **Update on Emergency Need for Railroad Track Stabilization in the Vicinity of Mile Post 203.80 to 204.40 and 206.00 to 206.70 on the Orange Subdivision**



## Coastal Rail Stabilization Priority Projects

- Four priority reinforcement areas were identified in January 2024
- Proposed solutions were evaluated at a preliminary design level considering different materials, performance, costs, methods, and schedule

Area	Location (MP)	Challenge	Proposed Solutions	Project Status
1	203.80 - 203.90	Ongoing deterioration of existing riprap protection	Riprap repair (900 tons/600 CY) followed by sand nourishment	Riprap construction and initial sand nourishment complete. Larger sand nourishment environmental clearance process in progress
2	204.00 - 204.40	Erosion - no beach at high tide and direct wave attack damaging existing riprap protection	Riprap repair (6,750 tons/4,500 CY) followed by sand nourishment	Riprap construction and initial sand nourishment complete. Larger sand nourishment environmental clearance process in progress
3	204.07 - 204.34	Steep bluffs with high potential for failure that could impact rail infrastructure	1,400-ft catchment structure and at-grade Mariposa Beach trail restoration	Construction underway
4	206.00 - 206.10 206.42 - 206.70	Near San Clemente State Beach - erosion exposing areas of limited to no riprap protection	Riprap repair (2,100 tons/1,400 CY) and 1,200-ft shoreline protection structure followed by sand nourishment	Field investigation and sand nourishment federal environmental clearance process in progress

MP – Mile Post  
CY – Cubic Yard  
FT – Feet





# Areas 1 and 2 Riprap Repair and Initial Sand Nourishment

## Riprap repair

- All construction activities have been completed
- Provided responses to the California Coastal Commission (CCC) on Emergency Coastal Development Permit (eCDP) conditions of approval for Areas 1 and 2
- Staff addressing CCC request for additional construction data and schedule for bulk sand nourishment

## Initial sand nourishment

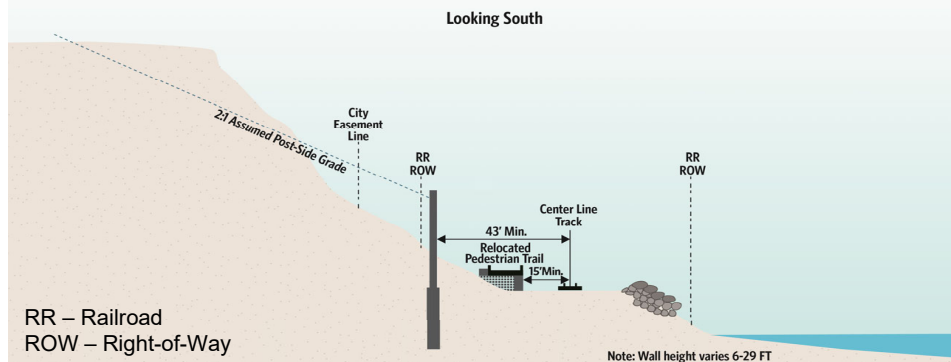
- Initial sand nourishment, completed on September 10, 2025, is part of the larger effort to place 240,000 CY of sand in Areas 1 and 2, as approved by the CCC
- Material was approved by the Southern California-Dredged Material Management Team (SC-DMMT) comprised of the U.S. Army Corps of Engineers, CCC staff, Regional Water Quality Control Board staff, and the U.S. Environmental Protection Agency





## Area 3 Mariposa Catchment Wall Activities

- California Transportation Commission (CTC) allocated \$92.231 million on May 16, 2025
- Executed design-build contract with Condon Johnson & Associates (CJA) and work began September 15, 2025
  - Completed removal of pedestrian bridge foundations, continued clearing and grubbing, and soil nail shoring
  - Structural steel delivery in early December 2025 followed by installation of soldier piles
  - Revised final construction plans under review
  - Temporary Mariposa Bridge crossing is in place
  - Challenges to protect +100-year-old City of San Clemente (City) sewer – may need to replace portions of the sewer that are damaged, which may impact schedule
  - Ongoing coordination with CCC staff







## Area 3 Mariposa Catchment Wall Activities (cont.)





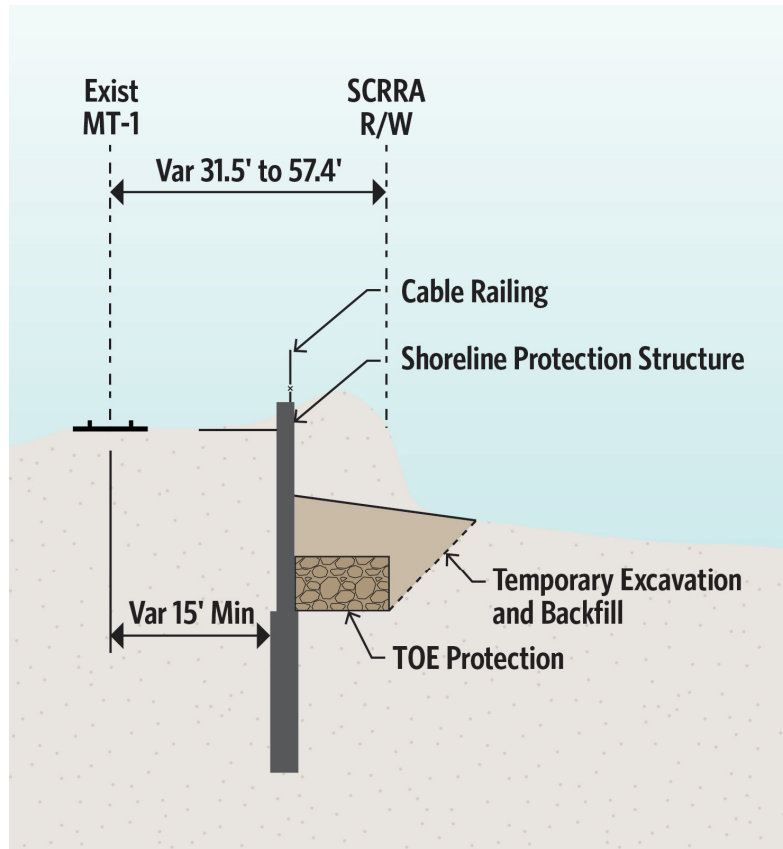


## Area 3 Catchment Wall and Mariposa Beach Trail Renderings





## Area 4 Shoreline Protection Structure Activities



Area 4 – Shoreline Protection Structure

- A Coastal Development Permit (CDP) waiver for geotechnical investigation testing was approved by the CCC on August 15, 2025
- Geotechnical field investigation to provide validation of Area 4 conceptual design planned to begin December 8, 2025
- CCC to consider a regular CDP for Area 4 protective design at future CCC meeting - date to be determined (TBD)
- Risk workshop was held to identify and compile project risks



## Estimated Remaining Schedule

### Area 3 Mariposa Catchment Wall Activities

Estimated Number of Months	1	2	3	4	5	6	7	8	9	10	11	12	13
Contract Duration													
Notice to Proceed (June 17, 2025)													
Final Design		2 Months											
Steel Procurement			4 Months										
Construction						10 Months							

### Area 4 Shoreline Protection Structure Construction

Estimated Number of Months	1	2	3	4	5	6	7	8	9	10
Area 4 - Shoreline Protection Structure										

### Sand Nourishment Construction

Estimated Number of Months	1	2	3	4	5	6	7	8	9	10
Sand Nourishment										

North Beach and Area 1 initial sand nourishment is complete

Area 4 schedule is TBD depending on environmental and permit approvals

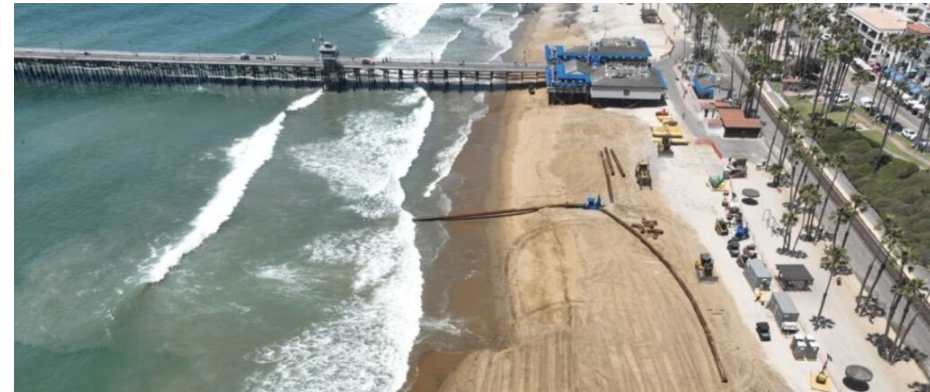
Sand nourishment schedule is TBD depending on environmental and permit approvals





## Sand Nourishment

- Securing federal environmental clearance for offshore sand source dredging and placement of sand for Areas 1, 2, and 4
- Federal Railroad Administration is the lead agency for environmental approval
- OCTA is utilizing previous studies by the City to streamline the process
- Surfside/sunset determined to be a viable offshore sand source pending final lab testing and SC-DMMT approval
- Marine environmental studies for beach nourishment are underway
- Preliminary sand nourishment schedule (subject to change)
  - Federal environmental and design approval late 2026
  - Procure dredge and placement contractor early to mid-2027
  - Notice to proceed based on dredge availability and permitting mid-2027 to late 2027



*Pictures from San Clemente Sand Replenishment Project*



## Contract Commitments as of November 24, 2025

Area	Entity	Agreement	Value
Area 1, 2, & 3 (Bridge Removal)	Southern California Regional Rail Authority (SCRRA)	Cooperative agreement	\$8,238,000 (Direct Allocation by CTC)
Area 1, 2, & 3 (Bridge Removal)	Los Angeles – San Diego – San Luis Obispo Rail Corridor Agency	Cooperative agreement for bus bridge	\$565,000
Area 1 & 2	Joshua Grading & Excavating, Inc.	Construction contract for early sand placement	\$879,000
Area 3	SCRRA	Cooperative agreement for rail support	\$4,500,000 (Direct Allocation by CTC)
Area 3	Kleinfelder, Inc.	Contract for Independent Geotechnical Review	\$50,000
Area 3	CJA	Design-build contract	\$46,196,198
Area 3	CA Coastal Conservancy	CDP Wetland Mitigation Fee	\$53,400
Area 3	Riverpark Mitigation Bank	California Regional Water Quality Control Board	\$28,848
Area 1, 2, & 4	City	Cooperative agreement to partially fund offshore sand exploration	\$180,000
Area 1, 2, 3 & 4	Mott MacDonald	Program management consultant services to provide environmental clearances, design, permitting, construction management, and project management	\$29,063,000 <sup>(1)</sup>
Note: Remainder of the \$313.24 million approved funds will be committed as the projects progress (1) – Amendment was approved by the Board of Directors on November 24, 2025 - pending contract execution			Total: \$89,753,446



## Recommendation

**Reaffirm Resolution No. 2025-068 and authorize the Chief Executive Officer to take all necessary actions to address the emergency need for railroad track stabilization in the vicinity of Mile Post 203.80 to 204.40 and 206.00 to 206.70 on the Orange Subdivision, and to return to the Board of Directors, as required, to report on the status thereof.**