



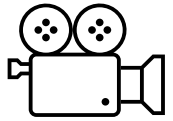
# Emergency Responders Listening Session

March 12, 2024



# Meeting Format

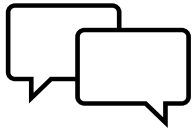
---



- This meeting is being recorded for documentation purposes.



- Verbal comments will be received after the presentation during the listening session.



- Written comments and questions can be submitted through the chat.



- If you would like to speak, please use the “Raise Hand” button at the bottom of the Zoom screen.



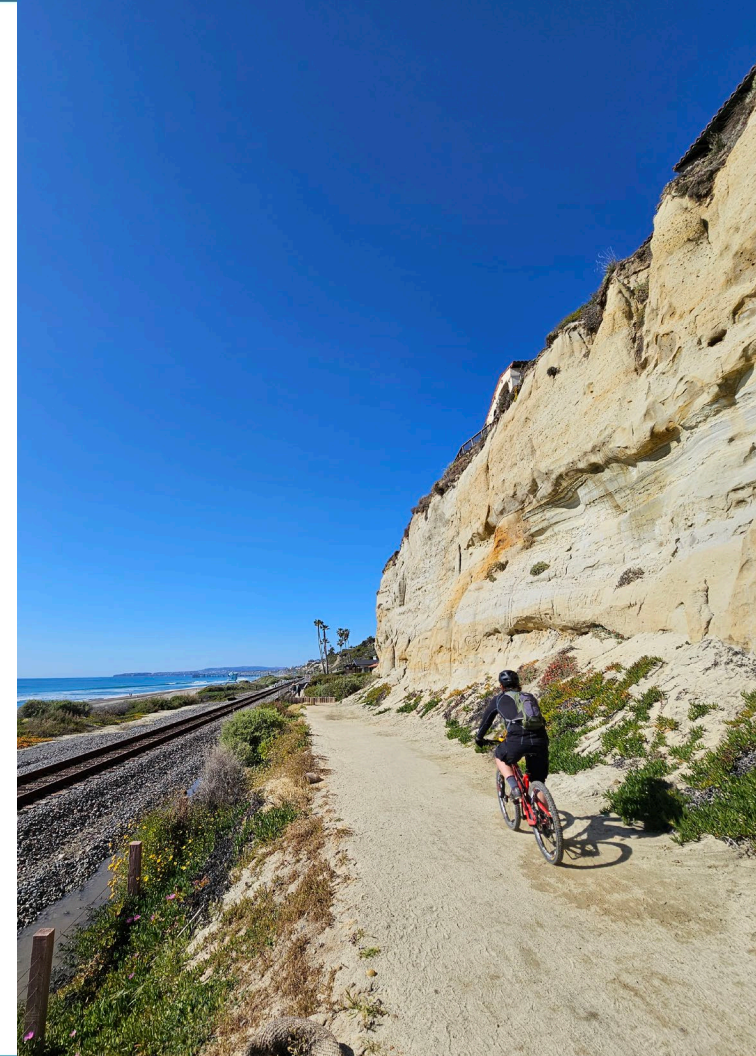
# Introductions



# Agenda

---

- History
- Goals and Objectives
  - Short and Mid-term Study
  - Potential Reinforcement Areas
- Study Schedule/Key Milestones
- Study Outreach
- Listening Session
- Next Steps





# History



# Local Resiliency Activities

| PROJECT  | ACTIVITY  | COST  | TIMEFRAME                  |
|--|---|---|----------------------------|
| Cyprus Shore Initial Track Stabilization Project (MP 206.8)                                | Emergency placement of riprap   | \$8 million                                 | September 2021             |
| Cyprus Shore Track Stabilization Project (MP 206.8)  | Installation of ground anchors in response to adjacent landslide  | \$13.7 million+                             | October 2022 – August 2023 |
| San Clemente Track Protection Project (MP 204.6)   | Installation of temporary barrier wall in response to adjacent landslide  | \$6 million                                 | May – July 2023            |
| San Clemente Track Protection Project (MP 204.2)   | Removal of debris and other remedial action in response to adjacent landslide   | \$TBD                                       | Jan – TBD                  |
| San Clemente Shoreline Project (Sand Replenishment) (MP ~204.5 – 205.2)                    | Project would add 251,000 cubic yards of sand to the beach. Repeated at every 5-6 years interval up to 2 million cubic yards. | \$14.3 (65% federal/ 35% city cost sharing) | Fall 2023/ Winter 2024     |
| San Clemente Nature-Based Coastal Resiliency Project Feasibility Study (community meeting) | This Study builds on the Shoreline Monitoring Program to promote long-term coastal resiliency in San Clemente.                | \$570,000 (CCC LCP Grant Round 7)           | Ongoing – Summer 2025      |

MP – Mile Post

# MP 206.8 Cyprus Shore Track Stabilization Project



## Stabilization Strategy:

- Homes constructed on historic landslide
- Pushing track toward the ocean
- Solution – Installed tieback anchors to stabilize the slope
- Project in close-out stages
- Passenger Rail Operation Resumed April 2023

# MP 204.6 San Clemente Track Protection



## Stabilization Strategy:

- Installed temporary barrier wall to prevent debris on track
- Removed landslide soil on rail side of wall layout line
- Cleared project site for reinstatement of rail service
- Debris cleared, wall in place and passenger service restored July 2023
- Remove temporary barrier wall after City of San Clemente installs permanent solution



# MP 204.2 San Clemente Track Protection



## Stabilization Strategy:

- Removal of two damaged spans of the pedestrian bridge
- Grading of the slope, clearing of debris in drainage culvert
- Placement of Visqueen plastic, and other best management practices to prevent surface water infiltration
- Debris cleared, limited freight service restored Jan 29
- As of Jan 30, passenger rail service still suspended

# Goals and Objectives

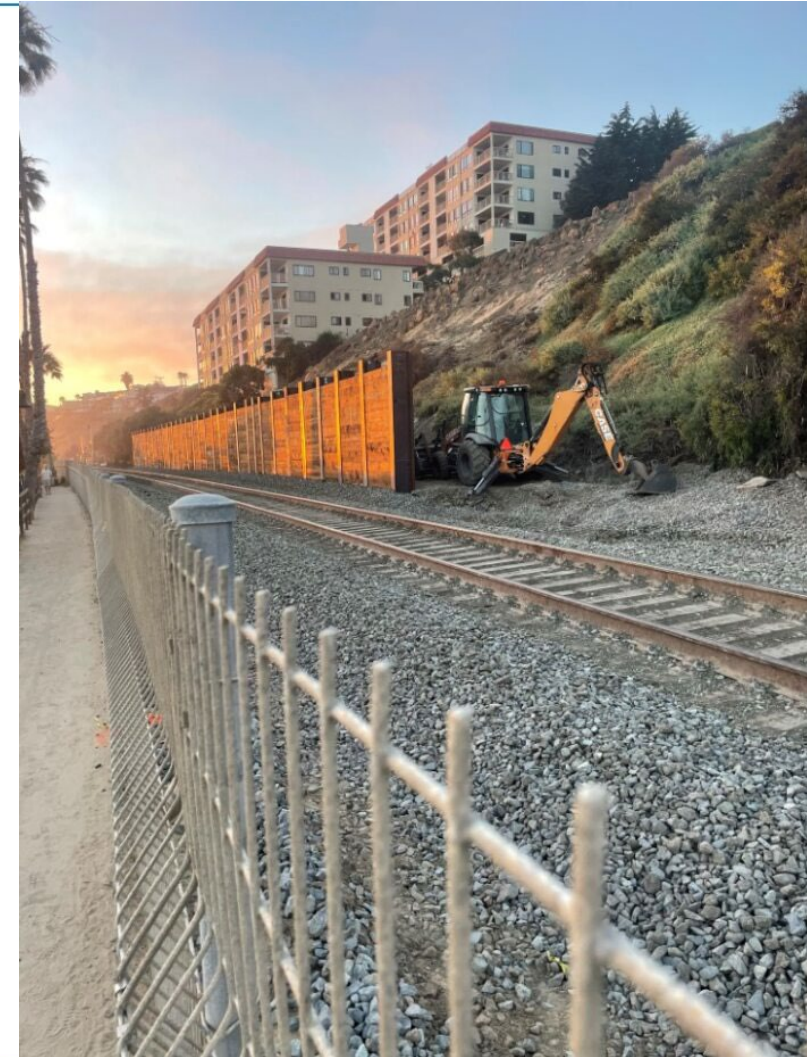
# Goals & Objectives for Short- & Mid-term Study

- Continual stakeholder engagement
- Minimize passenger and freight service disruptions
- Protect the railroad in place (up to 30 years)
  - Assess, identify, and develop a program of capital projects within OCTA right-of-way
  - Develop short-term (10 years) and medium-term (30 years) conceptual alternatives
  - Work with adjacent stakeholders to develop a comprehensive coastal capital program with roles and responsibilities beyond the OCTA right-of-way



# Goals & Objectives for Initial Assessment

- Conduct an Initial Assessment along OCTA's Coastal Railroad Right-of-Way (MP 200 – MP 207.4)
- Identify activities for immediate action
- Builds on previous efforts to maintain railroad operations
- Identify potential solutions and strategies
- Emergent issues, monitoring, and reinforcement areas

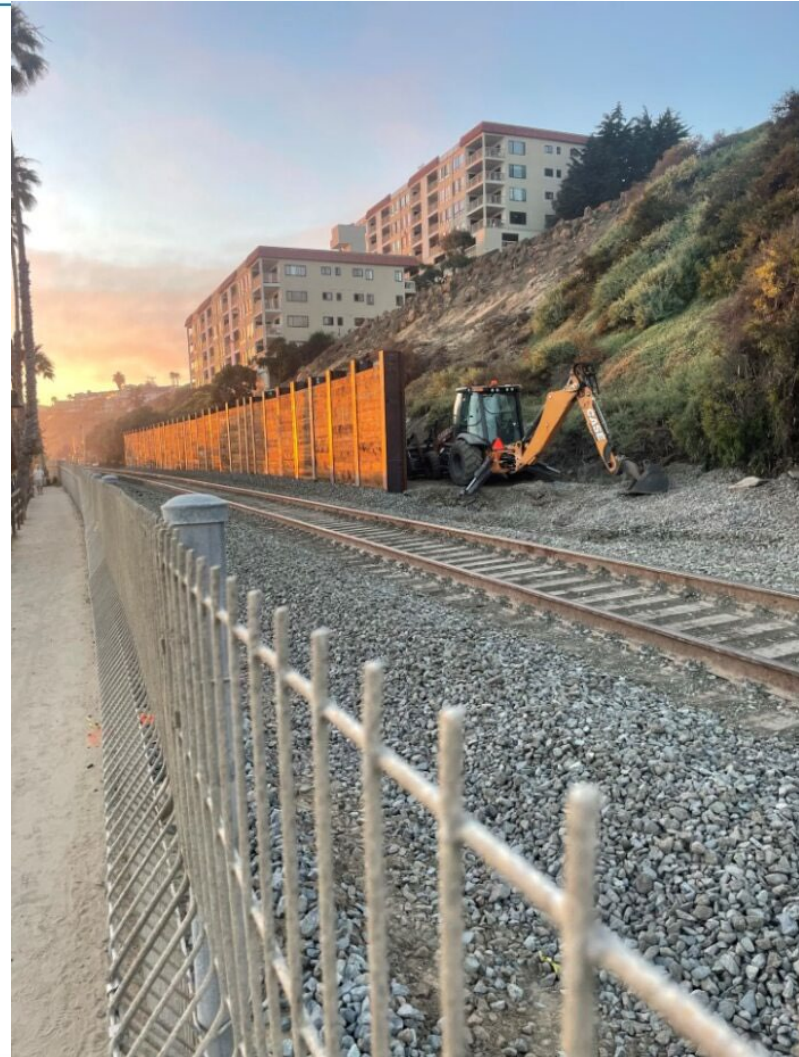




# **Initial Assessment: Identified Monitoring and Potential Reinforcement Areas**

# Initial Assessment

- Address Owner/Operators concerns regarding imminent issues affecting the railroad
- Focused on protecting rail operations, track infrastructure, and maintaining railroad service
- Identified Areas of Concern
  - Monitoring Areas
  - Potential Reinforcement Areas
- Identify Next Steps



# Summary of Monitoring Areas

| Area | Location (MP)   | Description   | Monitoring (Frequency)   |
|------|-----------------|---|--|
| 1    | 200.80 - 201.00 | Doheny S - Eroding Beach  | Riprap condition and beach erosion (Semi-Annually, Post Storm)   |
| 2    | 202.70          | Poche Beach South Shore Pedestrian Underpass and outfall at beach | Beach erosion and scour protection around structures (Quarterly)   |
| 3    | 203.65 - 203.70 | North Beach - Potential for undermining of riprap                 | Riprap condition and beach erosion (Semi-Annually, Post Storm)   |
| 4    | 204.00 – 204.30 | Mariposa Pedestrian Bridge  | Install sensors to monitor potential track-bed movement (Monthly, post storm post-landslide post-earthquake) |
| 5    | 204.50          | Linda Lane - Stable beach but narrow                              | Riprap condition and beach erosion (Semi-Annually, Post Storm)   |
| 6    | 206.10          | Calafia State Beach - upland erosion sand deposits on tracks      | Effectiveness of culvert replacement (Post Storm, King Tides)  |
| 7    | 206.70 – 207.25 | Cyprus Shore to County Line                                       | Monitor effectiveness of emergency riprap (Semi-Annually, Post Storm)  |

# Monitoring Areas 1 & 2



**Monitoring Area #1**  
MP 200.80 - 201.00 South Doheny  
Beach Erosion



**Monitoring Area #2**  
MP 202.70 Poche Beach Outfall  
and Pedestrian Underpass





# Monitoring Areas 3, 4 & 5



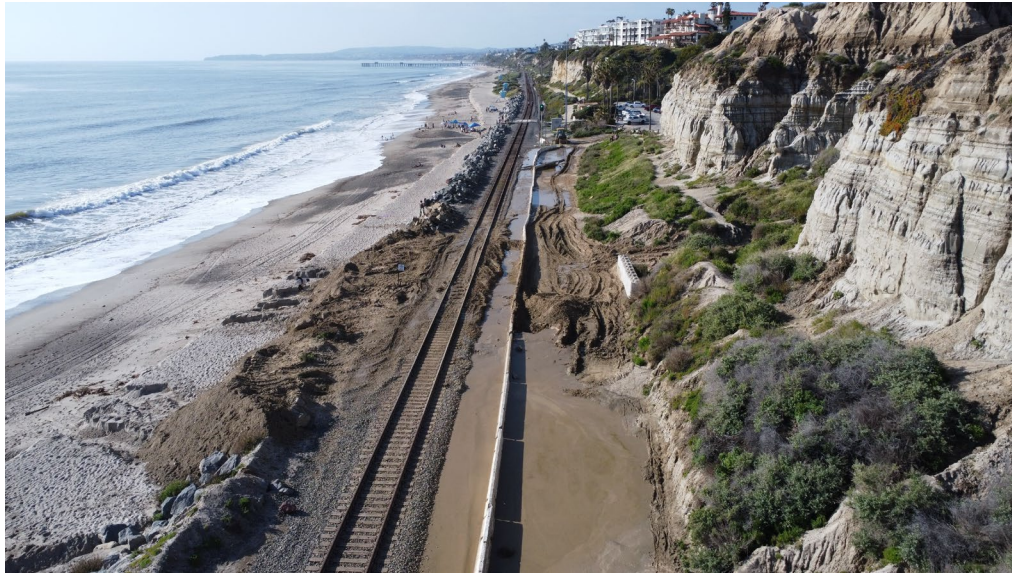
**Monitoring Area #3**  
MP 203.65 - 203.70  
North Beach



**Monitoring Areas #4, 5**  
MP 204.00 – 204.30 Mariposa Pedestrian  
Bridge, MP 204.50 – Linda Lane



# Monitoring Areas 6 & 7



**Monitoring Area #6**  
MP 206.10 Calafia State Beach



**Monitoring Area #7**  
MP 206.70 – 207.25  
Cyprus Shore to County Line



# Summary of Potential Reinforcement Areas

| Area | Location (MP)   | Description  | Potential Solution(s)*  |
|------|-----------------|--|---|
| 1    | 203.80 – 203.90 | Erosion Hazard deteriorating   | Repair/Augment Riprap   |
| 2    | 204.00 – 204.40 | Erosion - no beach at high tide and direct wave attack   | Stockpile rock for maintenance  |
| 3    | 204.00- 204.50  | Geologic - Major seepage from bluff and poor surface drainage, potential for liquefaction and lateral spreading of track-bed | Build subdrain cut-off for groundwater, catchment structure for slope debris surface drainage control |
| 4    | 206.00 - 206.67 | North end of Cyprus Shore - erosion exposing old riprap  | Inspect & construct revetment as needed   |

\*OCTA is participating in discussions about a sand replenishment program with the County of Orange and other stakeholders to protect the railroad and other infrastructure. This effort could be considered on a parallel path with the solutions above, to avoid delay of actions that are needed to ensure continual railroad operations.

# Potential Reinforcement Area 1

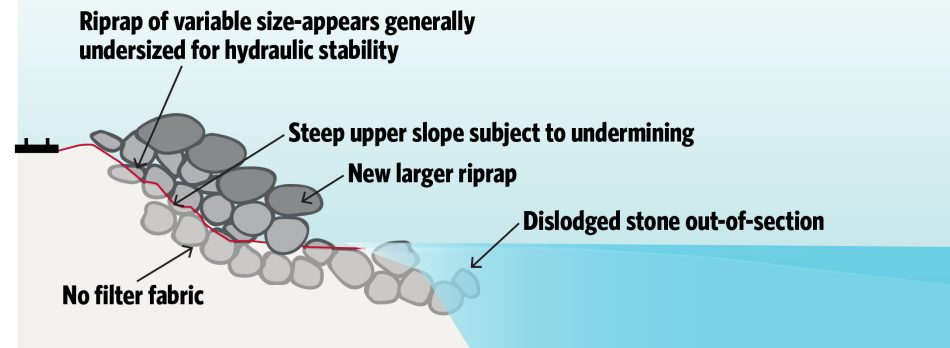
## Existing Condition



MP 203.80 – 203.90

## Possible Solution

- Stabilize track by repairing/augmenting existing riprap



# Potential Reinforcement Area 2

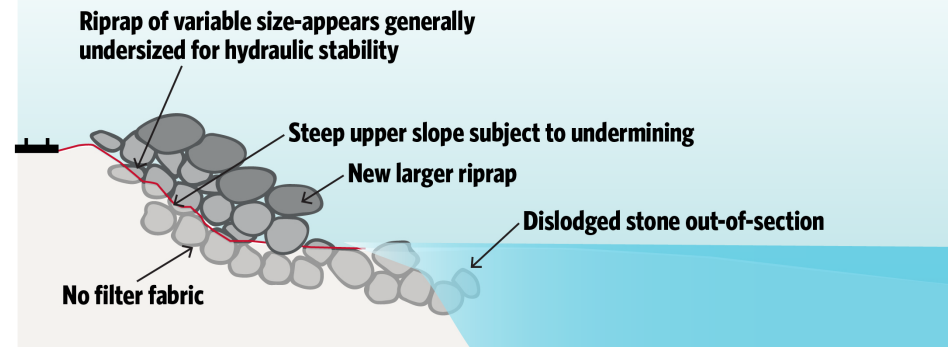
## Existing Condition



MP 204.00 – 204.40

## Possible Solution

- Reinforce riprap section as needed to stabilize track



# Potential Reinforcement Area 3

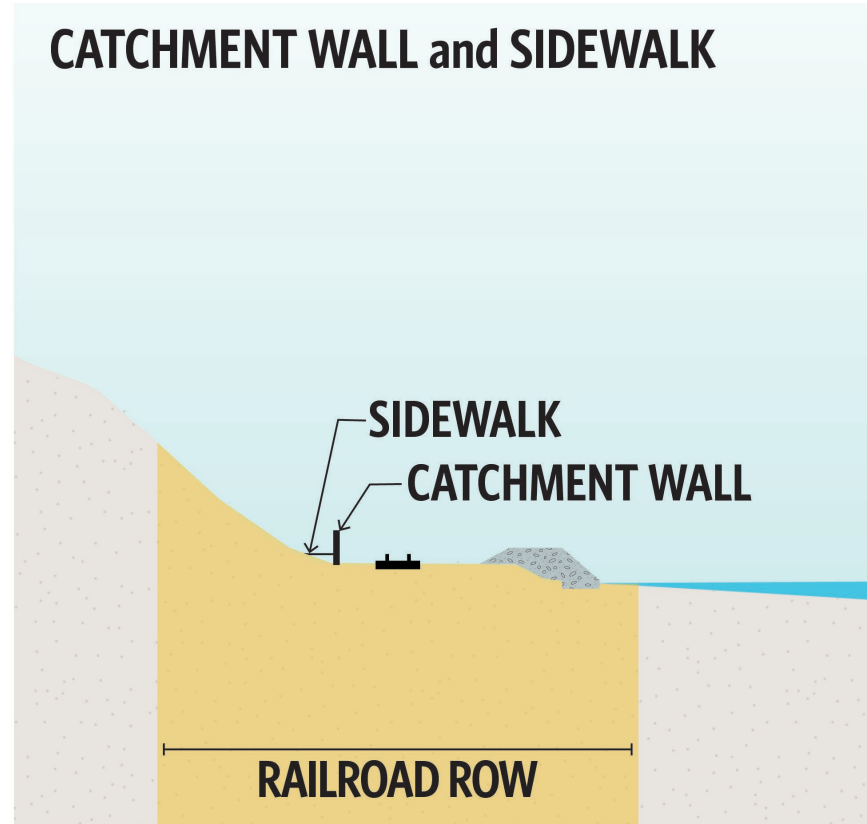
## Existing Condition



MP 204.00 – 204.50 – Steep bluffs, potential to impact tracks, poor track side drainage with potential for liquefaction.

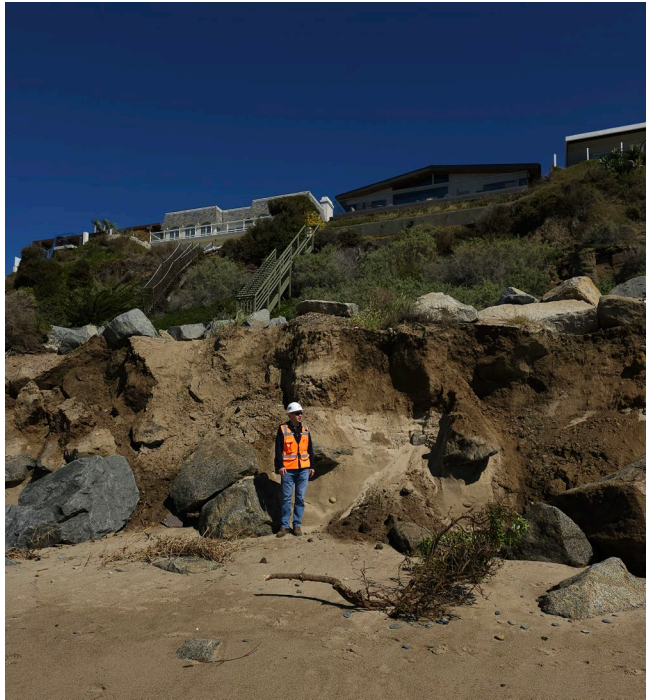
## Possible Solution

### CATCHMENT WALL and SIDEWALK

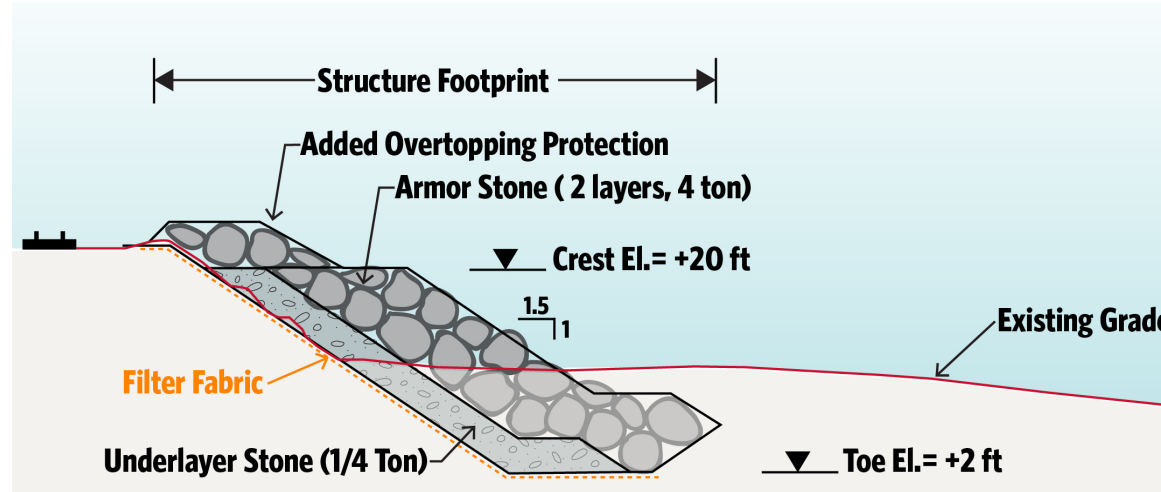


# Potential Reinforcement Area 4

## Existing Condition



## Possible Solution



MP 206.00 – 206.67 – North End of Cyprus Shore Project – Erosion exposing rock and creating a shelf adjacent to tracks where riprap once existed.

# Next Steps for Initial Assessment

- Engagement of Stakeholders (as appropriate)
- Procedures for Emergency Response
- Governance (roles & responsibilities)
  - Develop Implementation Plan
- Regulatory Permitting Strategy
- Stockpiles of Materials needed in emergency







# Study Outreach

# Study Outreach

- Listening Sessions
- Draft Concept Outreach
- Draft Plan Outreach
- Support community engagement
  - Feedback loop



# Study Milestones

## INITIAL ASSESSMENT

- Initiated: Nov '23
- Potential reinforcement areas identified: Dec '23
- Release Report: Feb '24

## LISTENING SESSIONS

- Engage with a wide range of stakeholders with unique and diverse backgrounds and needs
- Obtain feedback from stakeholders and interest groups: Winter '24

## PURPOSE AND NEED/ EVALUATION CRITERIA

- Draft: Spring '24
  - Informed by Listening Session feedback

## INITIAL CONCEPT DEVELOPMENT

- Draft Concepts: Spring to Fall '24
- Obtain feedback from stakeholders and interest groups: Fall '24

## REFINEMENT OF CONCEPTS

- Refined Concepts: Spring '25
- Obtain feedback from stakeholders and interest groups: Spring '25

## DRAFT FEASIBILITY STUDY REPORT

- Draft Report: Spring '25 – Summer '25
- Obtain feedback from stakeholders and interest groups

## FINAL FEASIBILITY STUDY REPORT

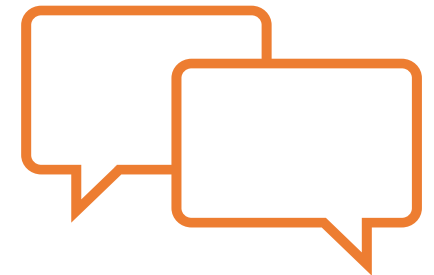
- Final Report: Fall '25
- **Present to Board/Publish Final Report: Fall '25**

# Listening Session

# Listening Session – Goals

---

- Gather collaborative input from key stakeholders in various public and private sectors
- Listening sessions seek to:
  - Identify key stakeholders
  - Share expectation to maintain in-place the existing coastal rail line and minimize passenger and freight service disruptions for up to 30-years
  - Assess vulnerabilities and issues of concerns
  - Identify potential opportunities to further enhance collaboration
  - Document feedback



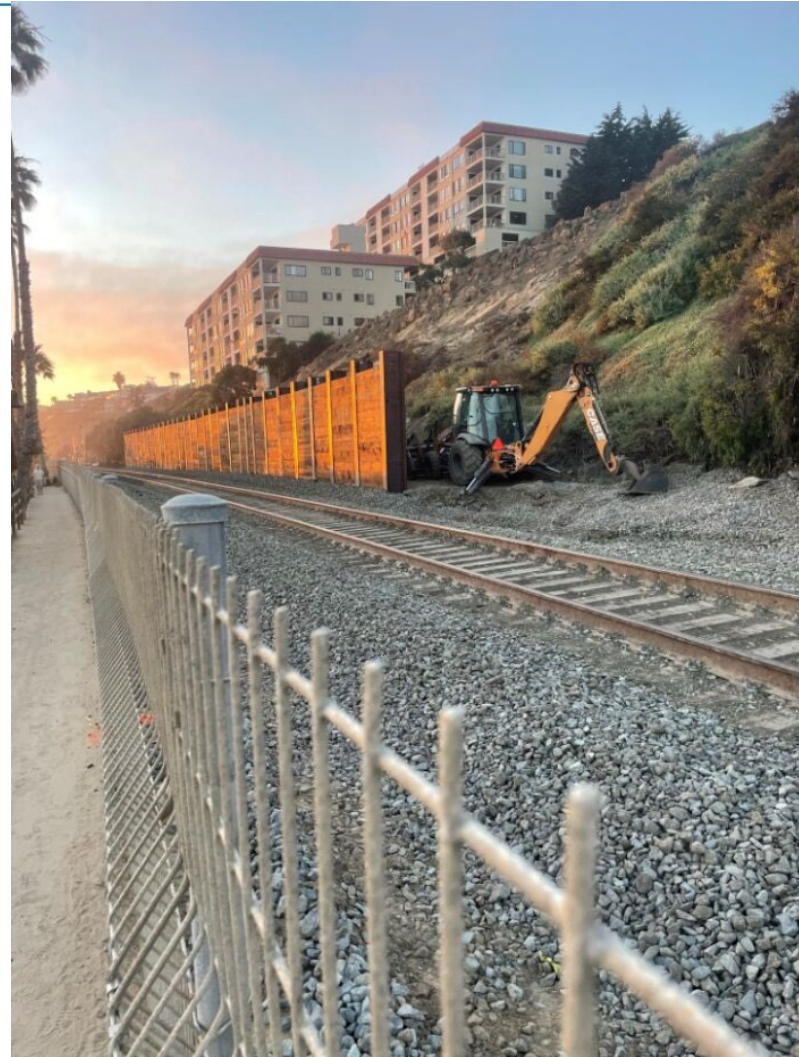
# Listening Session – Reinforcement Area Analysis

- Do you have **any comments** relative to the specified potential reinforcement areas?
  - MP 203.80 – 203.90 – #1 Erosion hazard progressing north
  - MP 204.00 – 204.40 – #2 Eroding, no beach at high tide
  - MP 204.00 – 204.50 – #3 Steep riprap may require maintenance; poor drainage; potential for liquefaction
  - MP 206.00 - 206.67 – #4 Erosion exposing old rock, progressing north
- Are you aware of **any other conditions** that should be assessed?



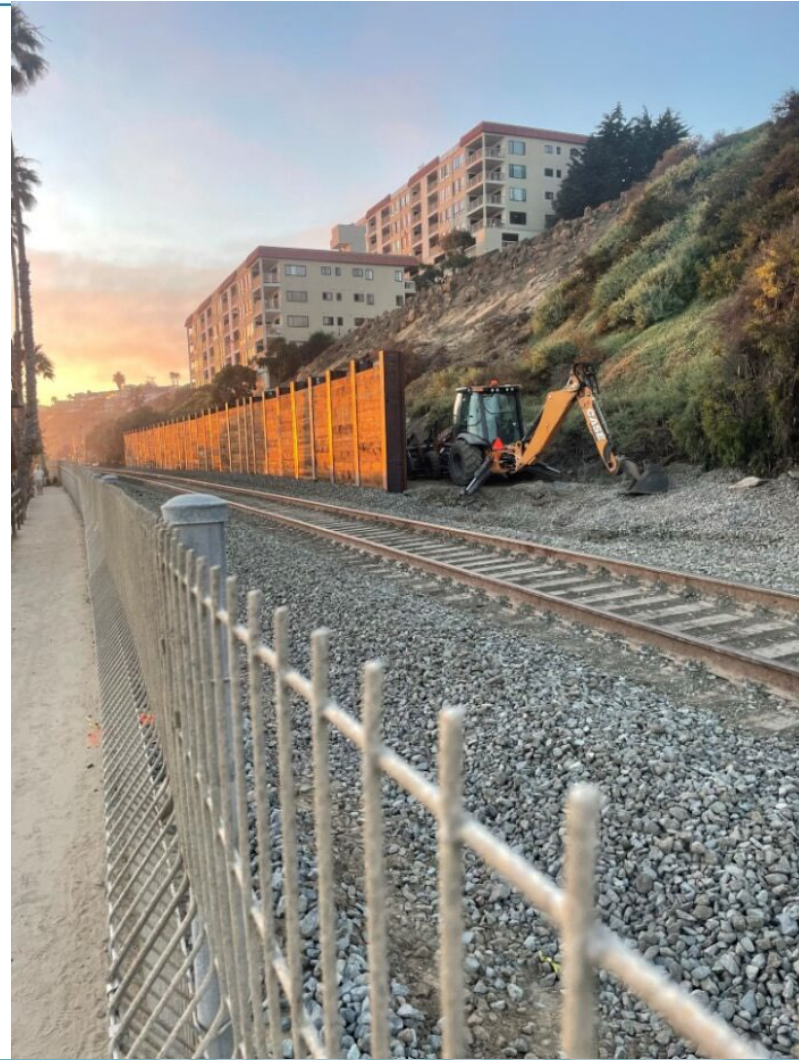
## Listening Session – Rail Service Disruptions

- In what ways could potential disruptions to the LOSSAN rail corridor impact emergency services and response times in the region?
- From your experience, what are the biggest challenges in accessing and navigating the rail corridor during emergencies, especially considering coastal and bluff erosion risks?
- What types of rail corridor emergency scenarios are most concerning to your agency, and how can we work together to address these concerns through the CRRS?
- How can OCTA best communicate progress and findings from the CRRS to your agency and the wider emergency response community, ensuring transparency and ongoing engagement?



## Continued: Listening Session – Rail Service Disruptions

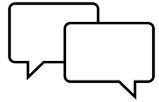
- What are the most effective ways OCTA can involve your agency and others in the study process to ensure broad stakeholder input and collaboration?
- How can OCTA and emergency responders work together to enhance community safety and public awareness regarding rail corridor emergencies and preparedness?
- What other emergency response agencies should we engage in this study?





# Listening Session – Public Engagement

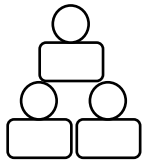
---



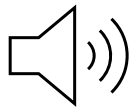
- What **feedback and key themes** have you heard from others?



- Do you have any comments or questions on the **approach to public engagement**?



- Do you have any **lists of stakeholder contacts** that we should include in our notification database?



- Can your organization **provide meeting notification support**?



## Next Steps



# Next Steps


| Timeframe | Listening Sessions   | Description  |
|-----------|--|--|
| 01/18/24  | Project Development Team (PDT)                               |  |
| 02/14/24  | Stakeholder Working Group (SWG)                              | Federal, state, regional & local interest groups                   |
| 02/15/24  | Major Employers, Key Destinations & Other Business Interests | Business associations & entertainment                              |
| 03/06/24  | Freight & Goods Movement                                     | Business & transportation interest groups                          |
| 03/12/24  | Emergency Responders   | Police departments, fire departments, coast guards & harbor patrol |
| 03/20/24  | Coastal & Marine Habitat<br>Community-Based Organizations    | Environmental groups   |
| 04/03/24  | Residential Groups   | Homeowner associations (HOAs)                                      |
| 04/11/24  | General Public   | Virtual meeting  |
| 05/10/24  | Elected Officials Roundtable                                 | Federal, state, regional & local elected offices                   |
| 05/30/24  | General Public   | In-person meeting  |

# Stay Connected

---

**Christina Byrne**


**Department Manager, Public Outreach**

 (714) 560-5717

 cbyrne@octa.net

**Dan Phu**

**Project Manager**

 (714) 560-5907

 dphu@octa.net

**Project website:**

[www.OCTA.net/CRRS](http://www.OCTA.net/CRRS)



**THANK YOU!**

