



Major Employers & Business Interests Listening Session

February 15, 2024



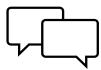
# **Meeting Format**



 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.



# **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



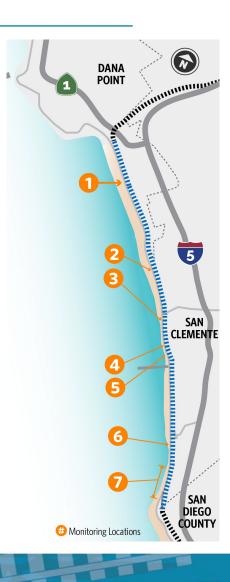
# Monitoring Areas 3, 4 & 5



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

<sup>\*</sup>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.

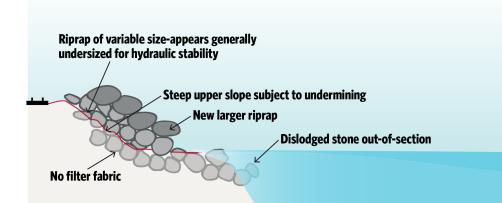
### **Existing Condition**



MP 203.80 - 203.90

#### **Possible Solution**

 Stabilize track by repairing/ augmenting existing riprap





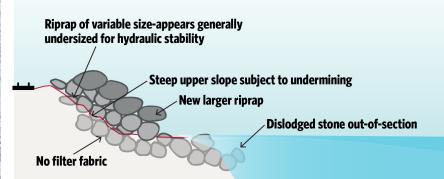
#### **Existing Condition**



MP 204.00 - 204.40

#### **Possible Solution**

 Reinforce riprap section as needed to stabilize track

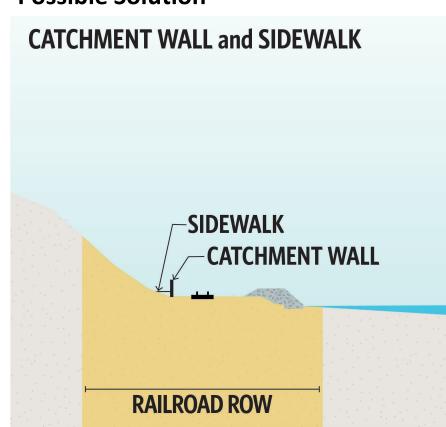


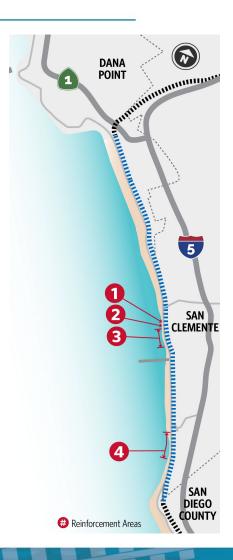


### **Existing Condition**



#### **Possible Solution**



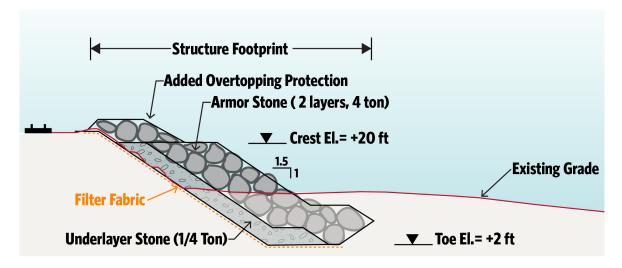


MP 204.00 – 204.50 – Steep bluffs, potential to impact tracks, poor track side drainage with potential for liquefaction.

#### **Existing Condition**



#### **Possible Solution**



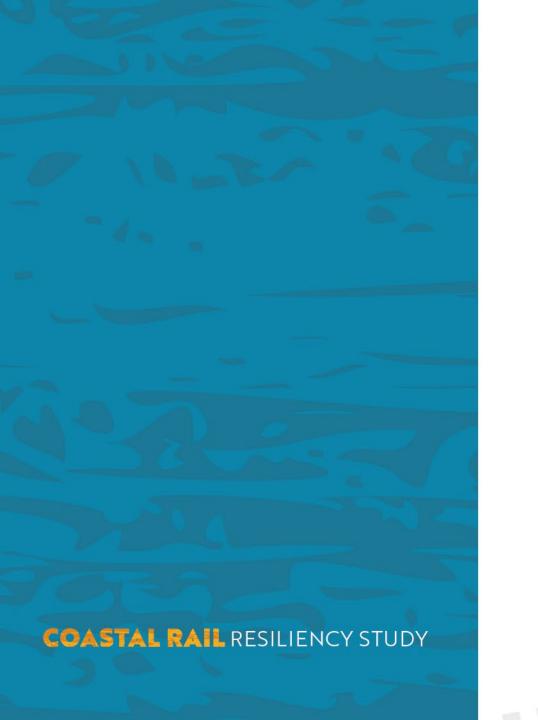


MP 206.00 – 206.67 – North End of Cyprus Shore Project – Erosion exposing rock and creating a shelf adjacent to tracks where riprap once existed.

# **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 Schedule/Key Milestones** 

# **Study Milestones**

#### 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

# INITIAL CONCEPT DEVELOPMENT

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

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# DRAFT FEASIBILITY STUDY REPORT

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

### INITIAL ASSESSMENT

Initiated: Nov '23

 Potential reinforcement areas identified: Dec '23

Release Report: Feb '24

#### PURPOSE AND NEED/ EVALUATION CRITERIA

Draft: Spring '24

 Informed by Listening Session feedback

# REFINEMENT OF CONCEPTS

Refined Concepts: Spring '25

 Obtain feedback from stakeholders and interest groups: Spring '25

# FINAL FEASIBILITY STUDY REPORT

Final Report: Fall '25

Present to Board/Publish Final Report: Fall '25



# **Study Outreach**

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



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# **Listening Session**

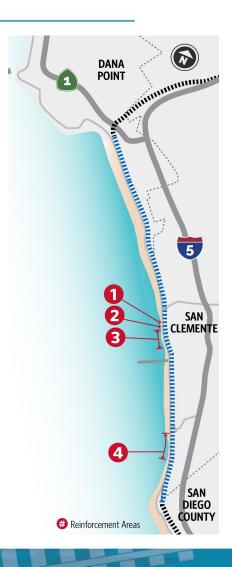
### **Listening Session – Goals**

- 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**

- How important is this rail corridor to your business/agency?
- In what ways do you believe the resilience of the rail corridor is important to the economic strength of your business and the broader community?
- How would rail service disruptions affect your business operations, specifically logistics, supply chain management, employee commute, and revenue?
- How can OCTA best communicate progress and findings from the CRRS to your organization and the wider community, ensuring transparency and ongoing engagement?
- What are the most effective ways OCTA can involve your organization and others in the study process to ensure broad stakeholder input and collaboration?
- What other businesses should we engage in this study?



### **Listening Session – Study Milestones**

#### LISTENING SESSIONS

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### DRAFT FEASIBILITY STUDY REPORT

- Draft Report: Spring '25 Summer '25
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#### INITIAL ASSESSMENT

- Initiated: Nov '23
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#### PURPOSE AND NEED/ EVALUATION CRITERIA

- · Draft: Spring '24
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### FINAL FEASIBILITY STUDY REPORT

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- Are there any comments or questions on the schedule and key milestones delivery timeline?
- Should others from your organization be included in the 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 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**

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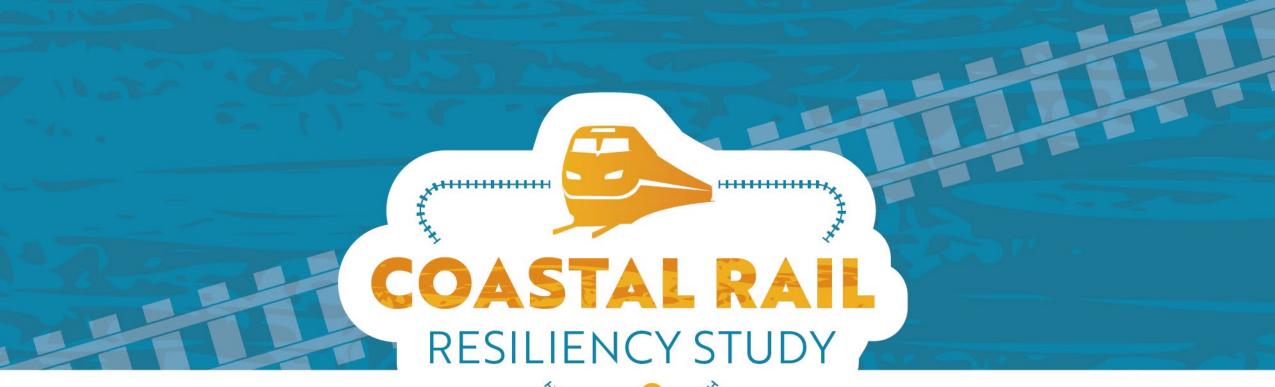
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**Project website:** 

www.OCTA.net/CRRS





**THANK YOU!** 

