#### **A PRESENTATION**





# McNears Pier Damage

## MARCH 21, 2023: VESSEL IMPACT

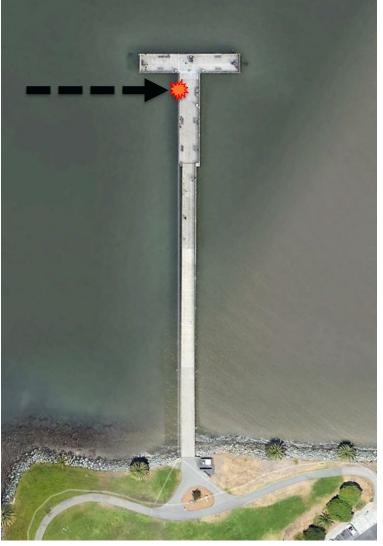
- 40' concrete vessel
- Mooring broke loose during storm
- Vessel struck pier on north side.





# **DAMAGE LOCATION**





## PIER DAMAGE

- Railing section damaged
- Concrete curb cracked
- Water line broken





## **DAMAGE LOCATION**

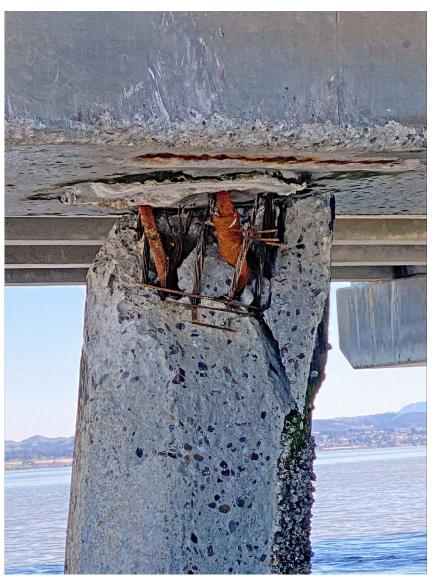
- Expansion joint at pier head lifted
- Pier shifted with impact
- For public safety, end of pier closed



## PIER STRUCTURAL DAMAGE

- Pile (F14) severely damaged
- Structural integrity compromised





## PIER STRUCTURAL DAMAGE

- Underwater assessment revealed more damage
- Vessel remnants leaning on pile



North Face – 10 feet below surface – Vessel debris abutted to pile



North Face – Top of pile showing severe damage

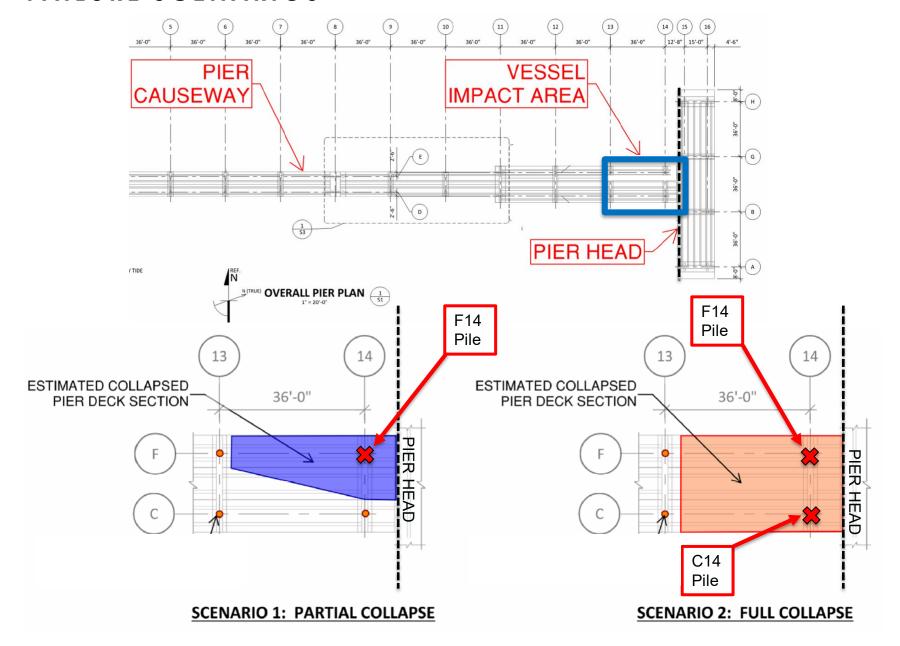


#### POTENTIAL FOR FAILURE

- Damage puts pier at risk of collapse if piling fails
- Potential causes:
  - Vertical and lateral movement
  - Minor seismic activity
  - Deterioration from localized waves/currents
  - Another collision (even if indirect)
  - Storm wind and waves
- Failure risk increases with each day



#### FAILURE SCENARIOS



## POTENTIAL FOR FAILURE

- Potential risk to human life if pier were to fail.
- Difficult to secure area and keep public away from pier.





#### MCNEARS PIER DAMAGE: NEXT STEPS

- On March 25th BOS authorized contract for repair design
- With BOS authorization, begin emergency repair contracting procedures
- Support Risk Management with insurance claim efforts
- Repair pier and re-open pier upon successful project completion.



## MCNEARS PIER DAMAGE

# **Questions?**

