

MIRADA ROAD PEDESTRIAN BRIDGE REPLACEMENT PROJECT

Midcoast Community Council Meeting

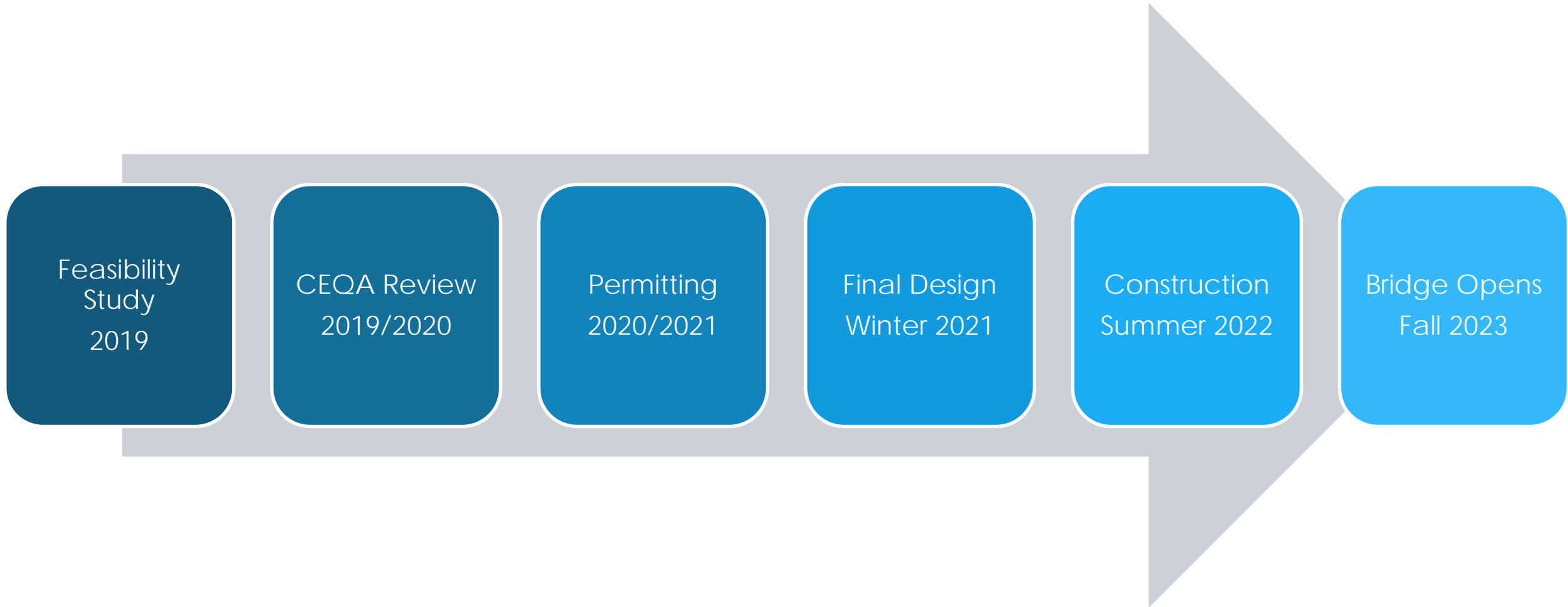
November 29, 2023



COUNTY OF SAN MATEO



Project Schedule



End of Wall Erosion

- Erosion was observed behind the layer of excess shotcrete after the 2022/2023 Winter Storms



North end of North Wall



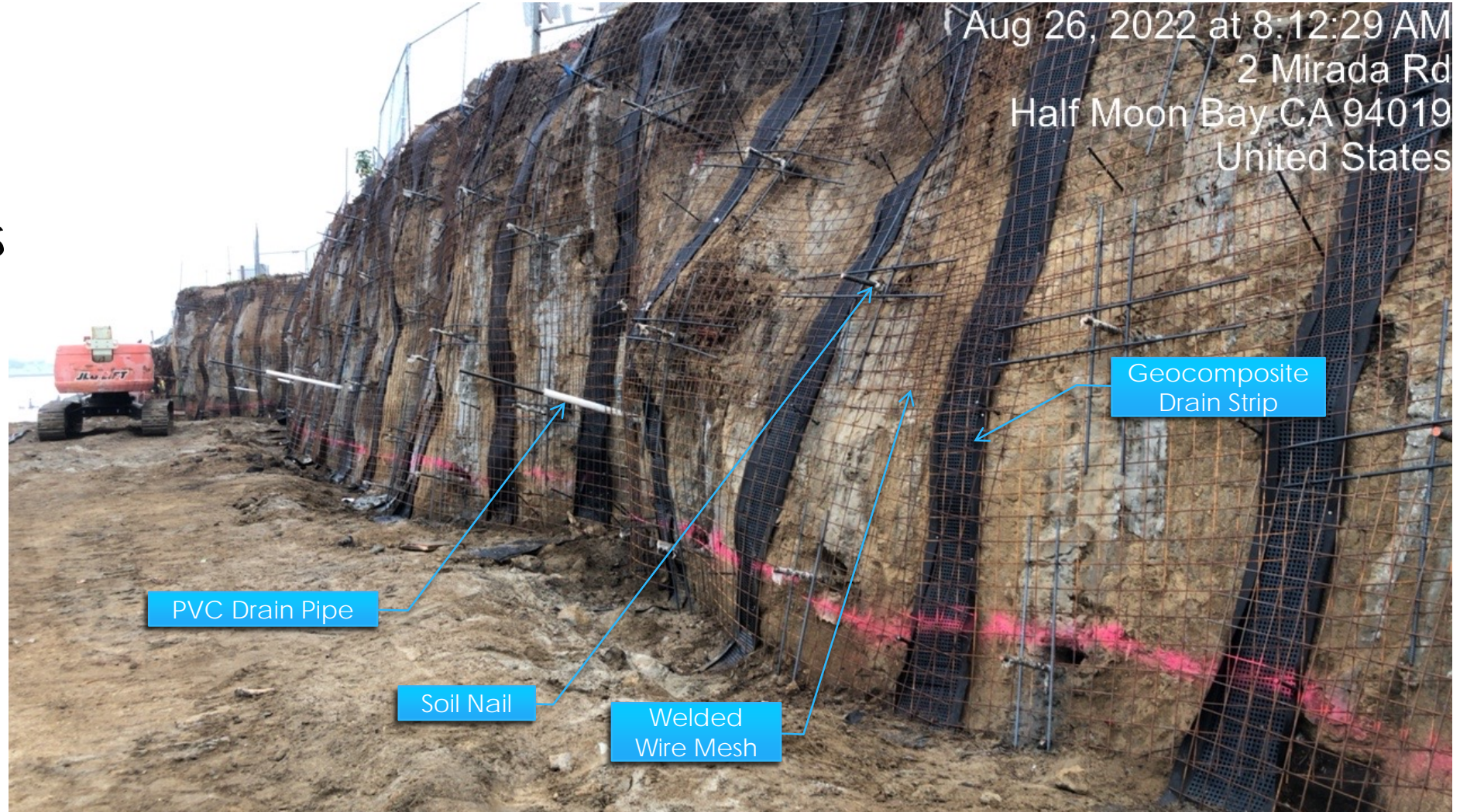
South end of North Wall



West end of South Wall

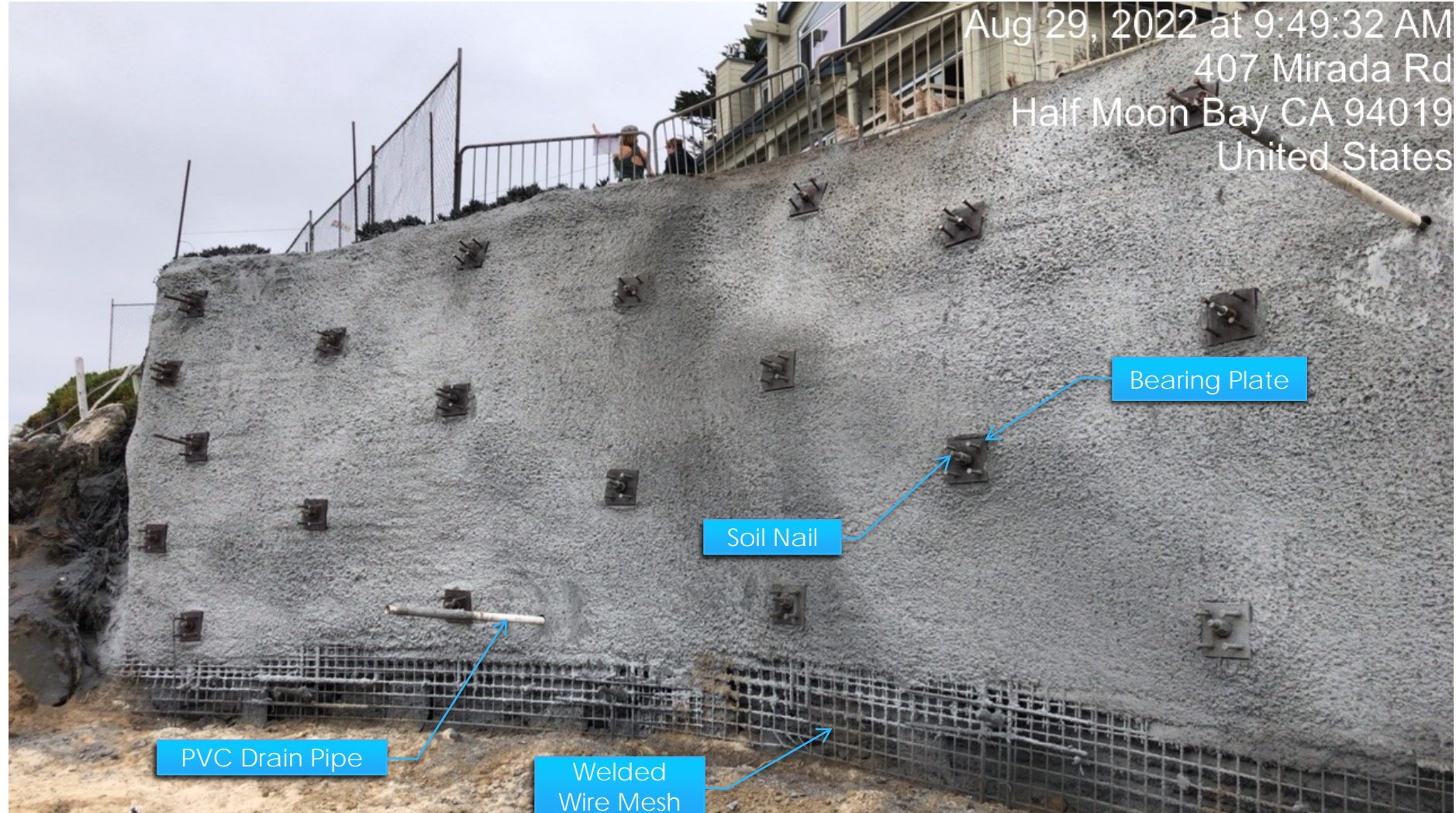
Soil Nail Wall Construction

- Soil nail installation with steel reinforcements (top half of North Wall shown)



Soil Nail Wall Construction

- Initial shotcrete installation - 4" min. to 6" max. thickness (top half of North Wall shown)



Soil Nail Wall Construction

- Initial shotcrete installation for bottom half of North Wall



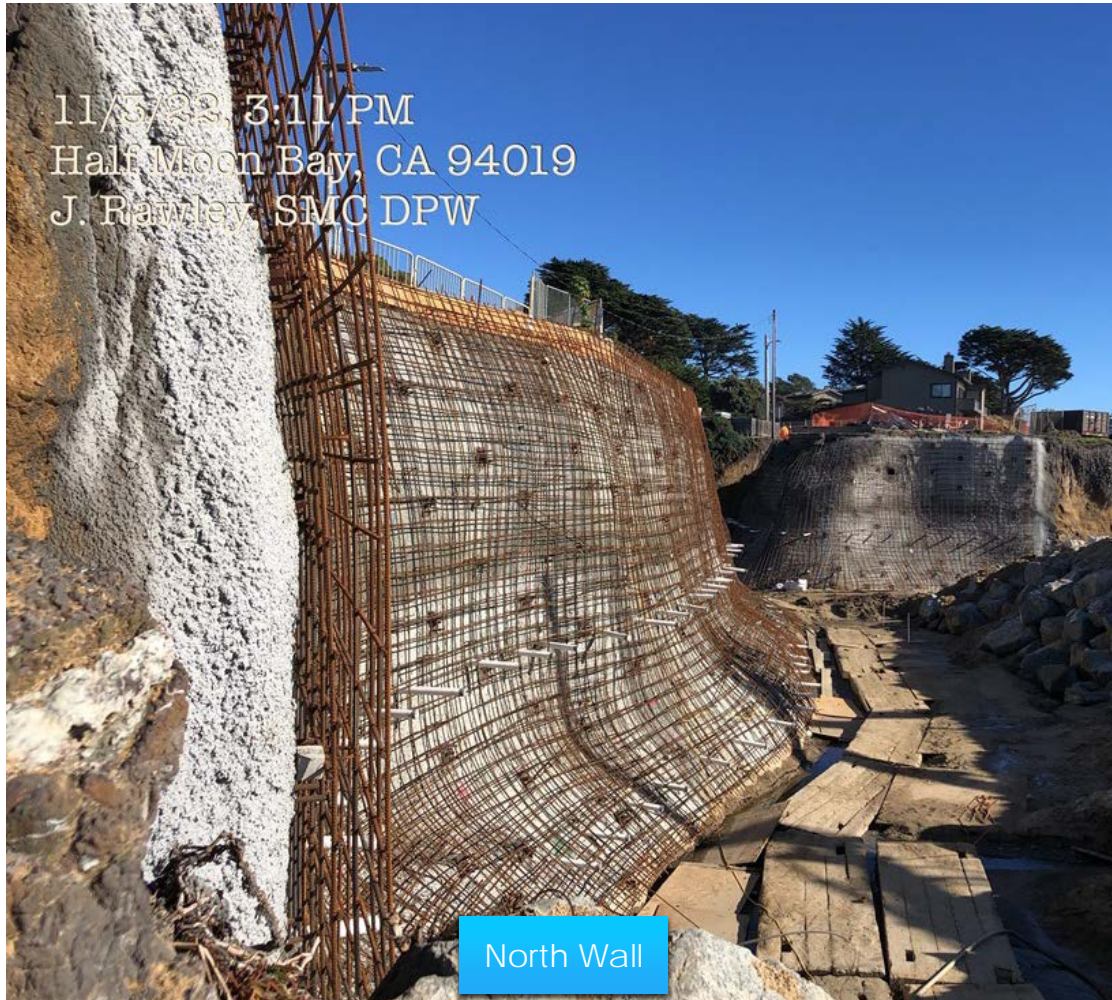
Soil Nail Wall Construction

- Initial shotcrete installation at the South Wall



Soil Nail Wall Construction

- Additional steel reinforcements at both walls



Soil Nail Wall Construction

- Final shotcrete installation at the North Wall



Soil Nail Wall Construction

- Final shotcrete installation at the South Wall



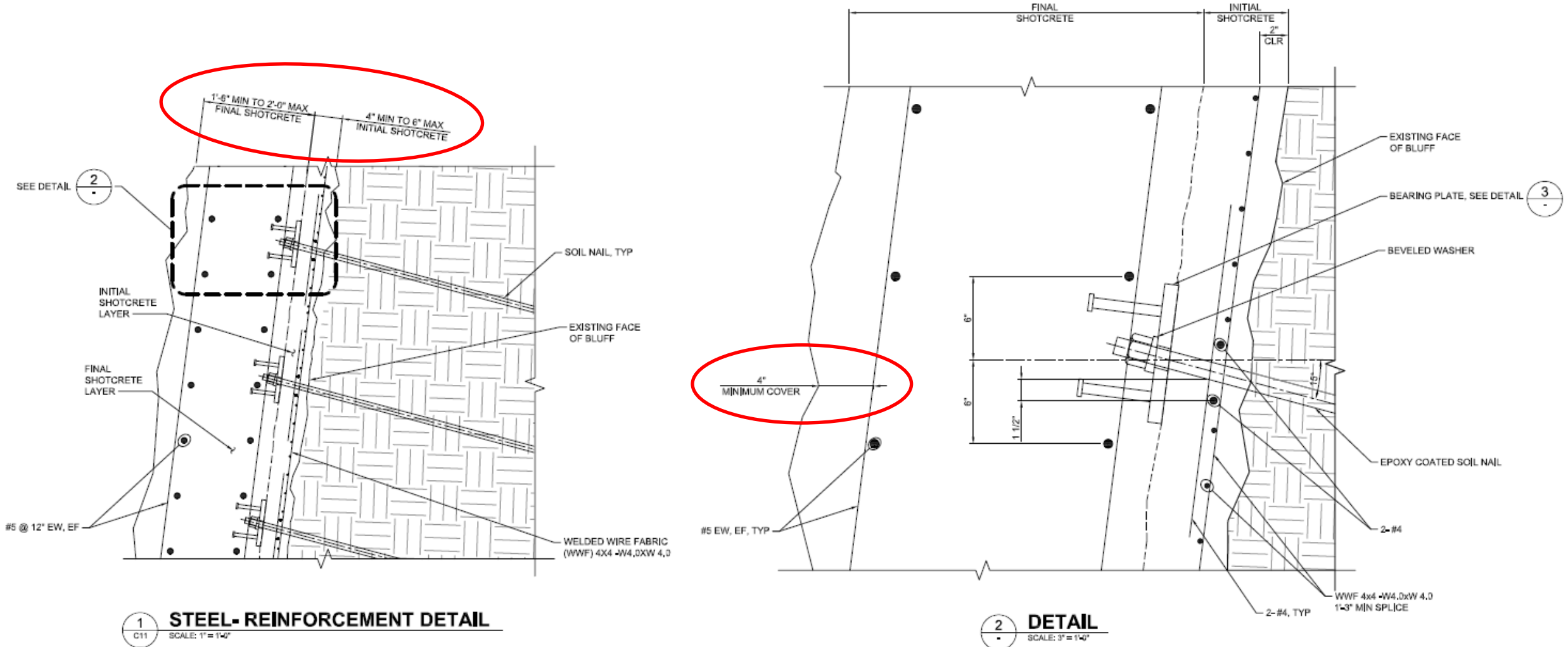
Actual limit of South Wall



Actual limit of South Wall

Soil Nail Wall Construction

- Soil nail wall details



End of Wall Erosion

- End of South Wall riprap displaced due to Winter storms



December 14, 2022



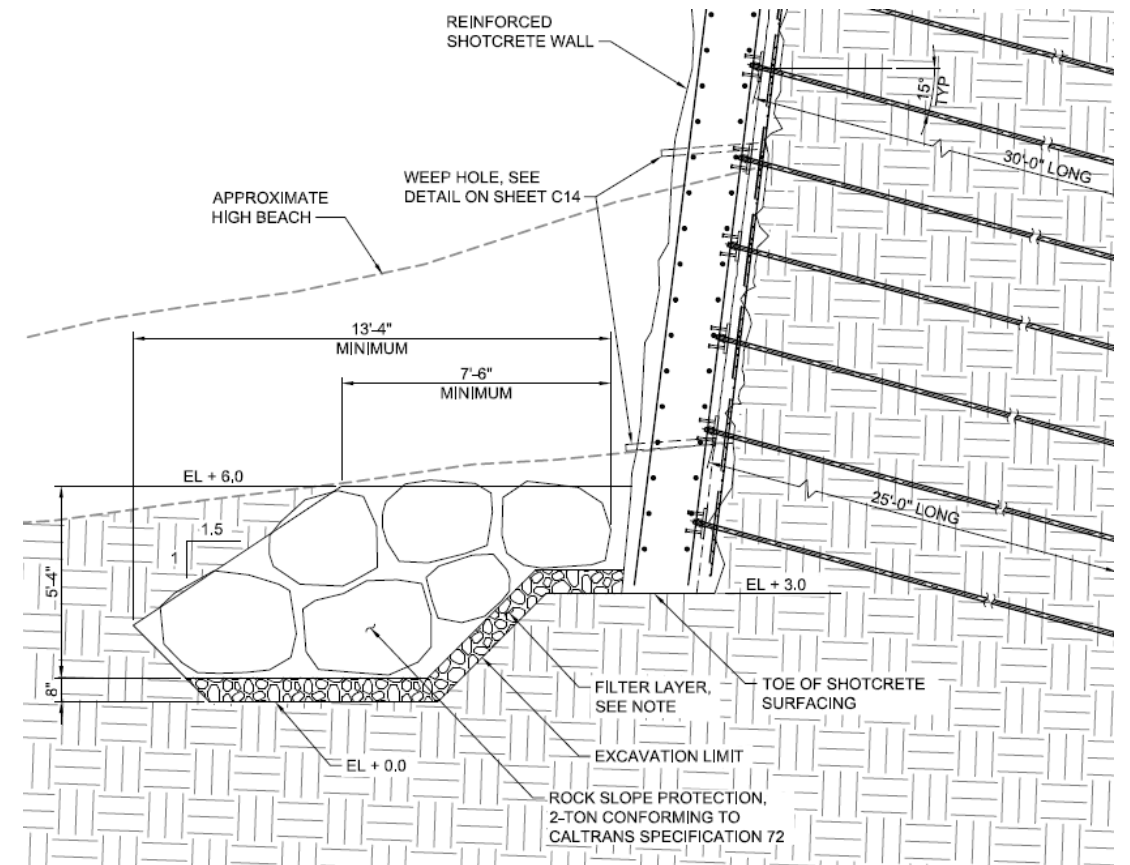
January 10, 2023

End of Wall Erosion

- What do we know?
 - ▶ Wall structural integrity is NOT affected by the current erosion
 - ▶ Erosion occurred behind the “over-sprayed” layer of shotcrete, not the actual walls
- What CAN we do?
 - ▶ Install non-shrink grout at the voids
 - ▶ Re-stack riprap as a long-term maintenance repair (may require permit approval by the California Coastal Commission)

End of Wall Erosion

- What CAN'T we do?
 - ▶ Import more riprap as energy dissipators
 - ▶ Restricted as stated in the Coastal Development Permit (CDP) by the California Coastal Commission
- Riprap installation restrictions
 - ▶ Per the CDP, riprap cannot be used to provide protection for private property (i.e. South Wall within 2 Mirada Road's property)
 - ▶ Equipment access limitation – no more equipment access to the beach, re-stacking of riprap must be done from top of bluff



End of Wall Next Steps

- We have asked the Contractor to move forward with grouting the wall ends at the three locations identified.
- We will continue to monitor the area and determine if re-stacking of rip rap is necessary.
- We will determine the necessary maintenance needs for the area, as the beach is a dynamic environment and be prepared to respond if we feel the wall is in jeopardy.

MIRADA ROAD PEDESTRIAN BRIDGE

November 29, 2023



COUNTY OF SAN MATEO

