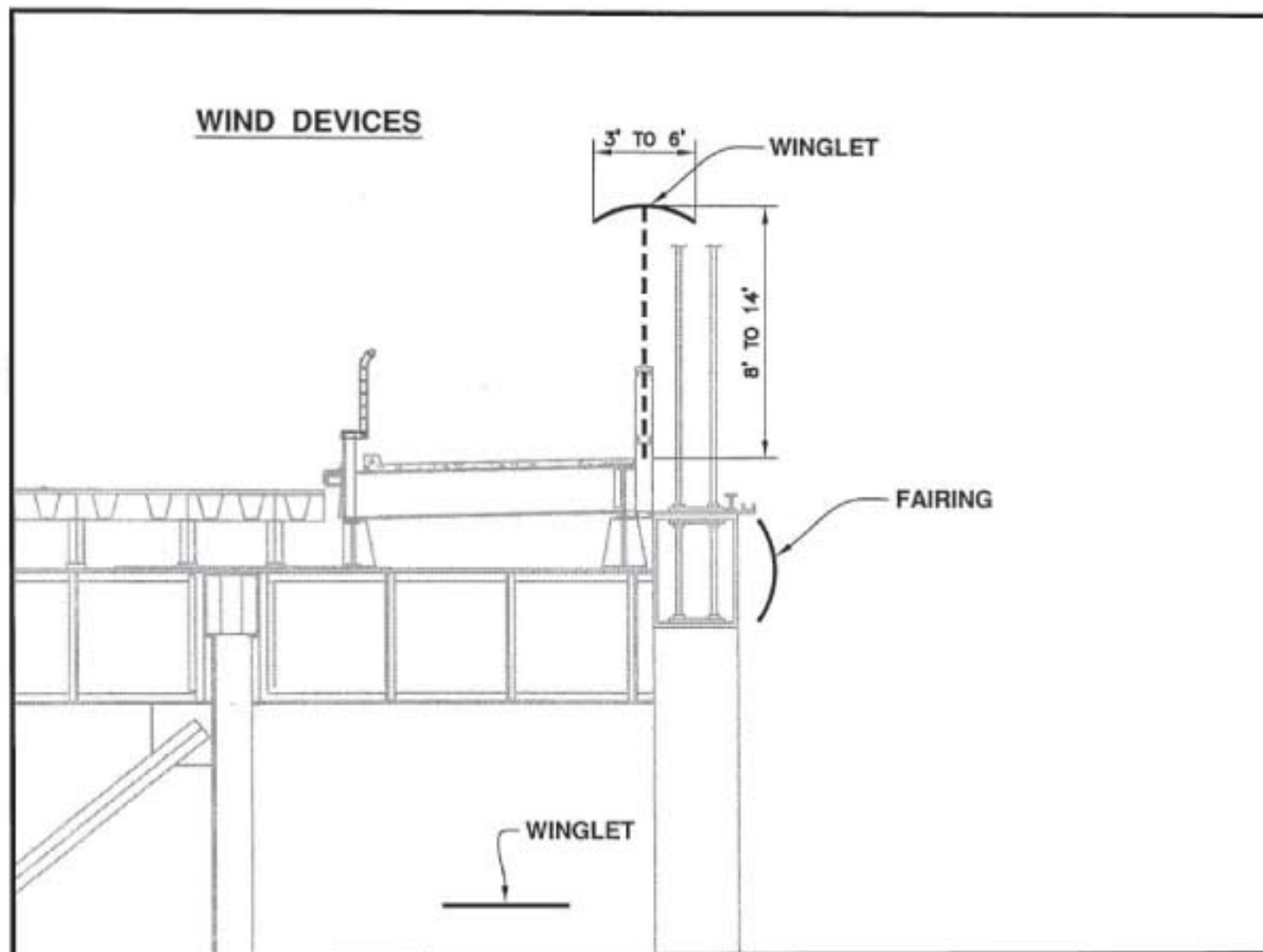


# Golden Gate Bridge

## Physical Suicide Deterrent System Project

### Wind Study Findings - May 2007

WIND TUNNEL TESTING IS A PASS/TEST FAIL TEST CONDUCTED TO ENSURE THE STABILITY OF THE GOLDEN GATE BRIDGE IN HIGH WIND CONDITIONS.



THREE GENERIC CONCEPTS WERE WIND TUNNEL TESTED

- Add to existing outside railing
- Replace existing outside railing
- Extend net out horizontally

DESIGN VARIABLES DEFINED

- Heights could range from 8 to 12 feet
- Solid ratios could range from 12 to 23%
- Wind devices are needed



The wind tunnel testing confirmed that a physical suicide barrier is compatible with the placement of a moveable median barrier on the Golden Gate Bridge roadway.



# The Alternatives

## Alternative 1A

Adds 8-foot-tall vertical system to existing 4-foot-tall outside handrail, total height 12 feet



## Alternative 2A

Replaces 4-foot outside handrail with 12-foot-tall vertical system, total height 12 feet



## Alternative 3

Adds horizontal net system 20 feet below the sidewalk, extending 20 feet out from the GGB horizontally



## Alternative 1B

Adds 8-foot-tall horizontal system to existing 4-foot-tall outside handrail, total height 12 feet



## Alternative 2B

Replaces 4-foot outside handrail with 10-foot-tall horizontal system with winglet on top, total height 10 feet



The No Build Alternative  
Continue Non-Physical Suicide Deterrent Programs



The cost estimate for all Build Alternatives is approximately \$40-50 million





Alternative 1A - Adds 8-foot-tall vertical system to 4-foot handrail  
Sidewalk View South



Alternative 1B - Adds 8-foot-tall horizontal system to 4-foot handrail, with winglet on top  
Sidewalk View South





Alternative 2A - Replaces 4-foot handrail with 12-foot-tall vertical system  
Sidewalk View South



Alternative 2B - Replaces 4-foot handrail with 10-foot-tall horizontal system, with winglet  
Sidewalk View South





Alternative 3 - Add horizontal net system, 20 feet below and extending 20 feet out  
View North at Tower



No Build Alternative  
Sidewalk View South





Alternative 1A - Adds 8-foot-tall vertical system to 4-foot handrail  
Sidewalk View North



Alternative 1B - Adds 8-foot-tall horizontal system to 4-foot handrail, with winglet on top  
Sidewalk View North





Alternative 2A - Replaces 4-foot handrail with 12-foot-tall vertical system  
Sidewalk View North



Alternative 2B - Replaces 4-foot handrail with 10-foot-tall horizontal system, with winglet  
Sidewalk View North





Alternative 3 - Add horizontal net system, 20 feet below and extending 20 feet out  
View North at Tower



No Build Alternative  
Sidewalk View North