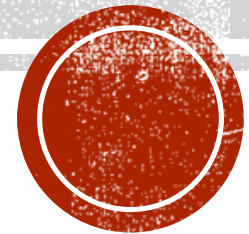


GOLDEN GATE BRIDGE

The bridge above the Golden Gate

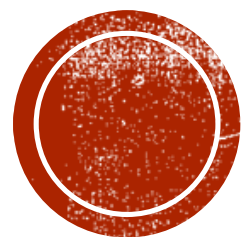




THE GOLDEN GATE

- Carries 6 lanes of US 101 and SR 1
- Pedestrian and bicycle way
- Connect San Francisco to Marin County
- Crosses the portion of SF bay called Golden Gate
- California historical landmark





HISTORY

Before the bridge was built

CROSSING THE GATE

- Boat service from Marin County to San Francisco
- Service created for carrying water
- Golden Gate Ferry Company



BRIDGE CONCEPTION

- San Francisco was the largest American city served by boat service
- Unfriendly environmental conditions
- The cost was estimated to \$100 million
- The design was finally proposed by Joseph Strauss
- The project encountered oppositions



PROJECT ACCEPTANCE

- Herbert Deakyne held the second hearing for the bridge
- The project was finally approved
- Approval was enhanced by car industry



CONSTRUCTION

- Construction was begun on January 5, 1933
- Strauss remained the head of the project
- Eleven workers were killed during construction
- The project was finished and opened May 27, 1937

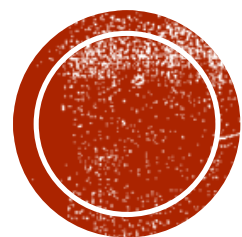




BRIDGE OPENING

May 27, 1937



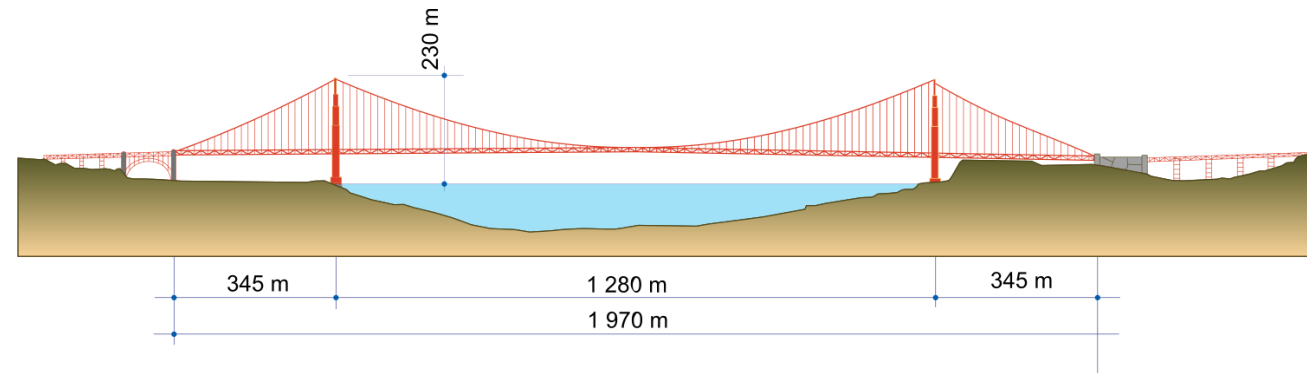


THE DESIGN

Two cantilevers and central suspension

BASIC STRUCTURAL DESIGN

- Strauss's design was unacceptable from a visual standpoint
- The final idea was conceived and championed by Leon Moisseiff.
- “Deflection theory” of the roadway



BRIDGE TOWERS

- Shape designed by Irving Morrow
- Art Deco elements were inserted
- The *International Orange* color was a sealant
- The bridge should have been black and yellow, as the US Navy wanted



THE INTERNATIONAL ORANGE COLOR

- The color was chosen to create contrast and blend well with the environment
- The color had already been invented before the bridge construction
- Many colors have been discussed
- Morrow was finally convinced by an Italian American artist



ART DECO DESIGN THEME

- The original theme was regarded as unsightly
- The Art Deco themes have been introduced by architect Morrow
- Pedestrian railings simplified
- Vertical ribbing added on the horizontal tower bracing
- Decreasing rectangular portals



PAINING THE BRIDGE

- The bridge is continuously painted
- The original lead based paint have been replaced by 1968
- The corrosion is kept under control



BRIDGE LIGHTING

- The bridge is made unique by this
- The lighting was meant to enhance the bridge dignity
- In 1972 the roadway lamps were replaced
- Towers lighting have been chosen to make them appear taller than they are





THE BRIDGE AND THE FOG

This is a typical sight of the Golden Gate Bridge in the morning



SOURCES

- [https://en.wikipedia.org/wiki/Golden Gate Bridge](https://en.wikipedia.org/wiki/Golden_Gate_Bridge)
- <http://goldengatebridge.org/>
- <https://www.sftravel.com/golden-gate-bridge>

