San Francisco - Oakland Bay Bridge

T.Y. LIN INTERNATIONAL
San Francisco
Segmental Bridges

- New Benicia-Martinez Bridge
- Tsable River Bridge
- Acosta Bridge
- Jamuna River Bridge
- I-205 Columbia River
- Lewiston-Clarkston Bridge
Steel Girder Bridges

- Glenwood Canyon
- Central Artery - South Boston
- Sun-Yat-Sen Freeway
- Chun-San Bridge
- Coronado Bridge Retrofit
Cable-Stayed Bridges
32 Major Bridges Worldwide

- Talmadge Memorial Bridge
- Sidney Lanier Bridge
- Glebe Island Bridge
- Yang Pu Bridge
- Clark Bridge (Construction)
Suspension Bridges

- Golden Gate Bridge Main Span Seismic Retrofit
- Mid-Hudson Bridge Retrofit
- Boca Tigris Bridge
- Tagus Bridge Strengthening
- Vincent Thomas Bridge Retrofit
San Francisco - Oakland Bay Bridge

East Bay Spans

Viaduct
SFOBB East Bay Viaduct

Criteria

- Aesthetics
- Function
- Constructibility
- Cost
SFOBB East Bay Viaduct
Design Approach

- Form
- Material
SFOBB East Bay Viaduct
Multi-modal Transportation

- Cars
- Bicyclists
- Pedestrians
- Mass Transit
SFOBB East Bay Viaduct
Structure of Choice

- Two Parallel Structures
- Single Cell Boxes
- Off-shore Foundation
- Unified Construction Technology
SFOBB East Bay Viaduct

View Towards Yerba Buena Island
SFOBB East Bay Viaduct
Advantages

- Unobstructed View
- Blended with Environment on Both Ends
- Easy to Construct
- Easy to Maintain
SFOBB East Bay Viaduct
Steel Box Girder

- Similar Shape
- Lower Mass-Cheaper Foundation
- Higher Maintenance Cost
SFOBB East Bay Viaduct
Bicycle and Pedestrian Path

- On the Deck
- Between Structures
- Separated Lower Level
SFOBB East Bay Viaduct
Bicycle Path on Lower Level

- Ample Space
- Protected from Weather
- Safe from Traffic
- Less Noise
San Francisco - Oakland Bay Bridge

East Bay Spans

Self-Anchored Suspension Main Span
San Francisco - Oakland Bay Bridge

East Bay Spans

Cable-Stayed Main Span