

## SFOBB Skyway Bridge

The Skyway portion of the Oakland Bay Bridge Replacement consists of dual precast segmental structures measuring 2,103 meters in length with a width of 2x26 meters. This structure is unique in its size and complexity.

Each structure includes four frames connected with internal hinge beams having typical span lengths of 160 meters. Typical segments are 8 meters long and up to 800 tons in weight. These segments are erected in balanced cantilever.

In special instances, segments on opposite sides of a pier must be lifted incrementally in order to avoid overstressing the pier columns. This degree of complexity in construction requires a significant amount of engineering by the contractor.

### OUR ROLE

McNary Bergeron provided Engineering oversight and equipment design for the Kiewit Flatiron Manson Joint Venture.

### CONSTRUCTION METHOD AND SPECIFICATIONS

- Precast Segmental - Balanced Cantilever
- Length: 2103m
- Width: 2x26m
- Span Data: 13 cantilevers, 160m typical span



**OWNER**  
Caltrans

**CONTRACTOR**  
*FM (Kiewit, Flatiron, Manson) a Joint Venture*

**DESIGNER**  
TYLin