

# Interstate 880 Overcrossing (USA)



## Project description

The Alameda County Transportation Commission in cooperation with the City of Oakland has been implemented operational and safety improvements on Interstate 880 (I-880) at 23<sup>rd</sup> and 29<sup>th</sup> Avenues.

The project included the replacement of the freeway overcrossing structures, safety improvements to the northbound on- and off-ramps plus the freeway mainline and installation of sound walls in the northbound direction between 29<sup>th</sup> and 23<sup>rd</sup> Avenues.

In addition, local streets were also modified and landscape enhancement works were implemented.

The total cost of the project was around \$113,652,000.

## mageba scope

mageba provided two TENSA®MODULAR LR3 expansion joints in which each joint was about 90 ft long (27 m). In addition, two TENSA®GRIP RS single gap joints (total length 116 ft (35 m)) were in the delivered scope of products.

Along with the joints, mageba also supplied two sliding concrete barrier plates for each of the modular and strip seal joints. All joints were fabricated and delivered in full length, meaning without the need of field splicing the beams on site.

All items were designed and fabricated in accordance with the AASHTO LRFD Bridge Construction Specifications.

The installed modular expansion joints were fatigue tested according to AASHTO's Appendix A19 at Lehigh University.

## Highlights & Facts

### mageba Products:

Type: TENSA®MODULAR LR3 modular joints  
TENSA®GRIP RS-R3 single gap joints

Features: Sliding plates  
Installation: 2018

### Structure:

City: Oakland, CA  
Country: United States  
Completion: 2019  
Owner: State of California DOT  
Contractor: RGW Construction Inc.

The structure is located in close to Brooklyn Basin Oakland, California



Modular joint after lifting to its final position



The delivered modular joint during installation

