Sixth Street Viaduct Replacement Project
City of Los Angeles Bureau of Engineering

www.sixthstreetviaduct.org
The Project
The Bureau of Engineering, under the leadership of City Engineer Gary Lee Moore and in partnership with the City’s Bureau of Contract Administration, is leading the Sixth Street Viaduct Replacement Project.

The design of the new bridge, known as “The Ribbon of Light,” was created by HNTB and Los Angeles architect Michael Maltzan. Construction is led by contractor Skanska Stacy and Witbeck, a Joint Venture.

The new viaduct is scheduled to be completed in Summer 2022.

The Arches
- There are 10 pairs of arches.
- Arches have a 9-degree outward cant and support the bridge deck with a cable network.
- 15,000’ of steel cables.
- Cables have a 2 ¾” diameter.
- The arches are 10’ wide, with a typical arch span of 300’.
- There are three different arch heights on the new viaduct:
  - Over the railroads: 60’ - 2 pairs
  - Over US 101: 40’ - 1 pair
  - Remaining arches: 30’ - 7 pairs.

Each arch requires 260 cubic yards of concrete.
Due to the formwork and intricate support system, the arches are poured at a rate of 4 vertical feet per hour, a total of 12-14 hours for each arch.

Each arch takes 65+ truck loads of concrete.
Concrete is injected with liquid nitrogen to cool the mix down to ambient temperature to reduce potential for concrete cracking.