



22 Tons at a Time

Since the March/April newsletter, the County finished the underground utility relocation and installed the pre-constructed 240 foot concrete box culvert underneath SR 67. Thank you for your patience in April when a full weekend-closure of SR 67 was needed for this work.

Now, the County is installing the underground concrete box culvert along the eastbound lanes of Woodside Avenue in the following steps:

- ▶ **Excavate:** Crews have already closed the eastbound lane of Woodside Avenue and excavated deep trenches.
- ▶ **Install Pre-cast Pieces:** Crews then lift and lower each of the box culvert pieces into place as shown in the picture above. Each of these pieces weighs an impressive 22 tons — 44,000 pounds! They are being installed in limited stretches to preserve access to driveways for businesses and residents. When each piece is installed, crews use a water-tight sealing compound to prevent leaking and a security lining to prevent settling. These precautions minimize future maintenance.
- ▶ **Complete Connections:** As the box culvert is installed along Woodside Avenue, it will arrive at the Water Quality Basin. There, curves will be in the box culvert will connect it to the box culvert already completed in the Water Quality Basin.

The County is committed to maintaining safe access for local businesses and kids traveling to and from school while its crews replace approximately 2400 feet of under-sized storm drains to accommodate a 100-year flood. In addition to making flooding along Woodside a thing of the past, the project also undergrounds all existing overhead utilities along Woodside Avenue and relocates water mains, sewer lines and gas lines to make their maintenance more convenient.



Construction Update: Current Construction Activities

In May and June, the County is working on the following:

Woodside Avenue Box Culvert:

Crews are installing the box culvert sections under the eastbound lane of Woodside Avenue. One piece of the box culvert is installed at a time to maintain access to driveways, which reduces impacts to businesses.

SR 67 Reinforced Box Culvert:

Crews are building the continuation of the box culvert from the freeway to

Woodside Avenue. This culvert will connect to Woodside Avenue to form one continuous storm drain under Woodside Avenue.

Water Quality Basin:

On top of the box culvert, a barrier rail was constructed for maintenance crews to use to access utilities, while the adjacent area is backfilled with dirt.



Crews deliver a 22-ton box culvert piece

Mission Accomplished!

In April, the County needed to close both southbound lanes of SR 67 for a weekend so that crews could finish hydraulically pushing the preconstructed concrete box culvert under the freeway. Why the closure?

In late March, crews hit a series of large boulders at the north end of the freeway, which made it impossible to continue pushing the box culvert under the westbound lanes of SR 67. Removing these boulders required a complex series of construction operations that ultimately took 40 hours to complete.

Through close coordination between the County, Caltrans District 11, neighboring cities, and the community, the closure went smoothly and work was completed nearly 15 hours ahead of schedule.

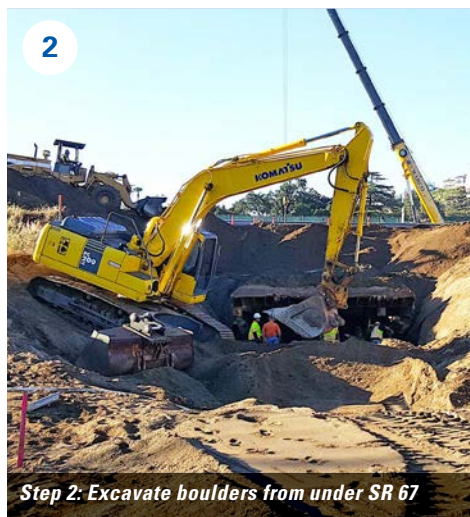
The County would like to thank residents and businesses for their cooperation and patience. The pictures here illustrate three main phases of the work that occurred during the closure, which have allowed the project to proceed. The final step, which is not pictured, was to repair the freeway lanes and reopen them to vehicles.

Main Phases of Work Before Lanes Re-opened

- 1 Crews cut the surface of SR 67 to dig down to where the boulders were obstructing the passage.
- 2 Crews removed boulders from under SR 67 using heavy-duty excavators.
- 3 Crews hydraulically pushed the box culvert the remaining length under the freeway to complete the installation under SR 67.



Step 1: Open-cut westbound lanes of SR 67



Step 2: Excavate boulders from under SR 67



Step 3: Install new box culvert under SR 67