



US 36 Emergency Rebuild

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July 2019: Incident recap

On July 12, 2019 CDOT closed eastbound US 36 near Wadsworth Boulevard after large cracks formed on the highway and a section of the eastbound retaining wall collapsed.

- Working around the clock, CDOT Region 1 maintenance and contract crews quickly created a stable interim traffic pattern.
- Simultaneously, CDOT engineers worked to select a construction contractor for the rebuild project. Kraemer North America was selected as the contractor on July 17.
- Design meetings began the very next morning.



Aerial shot taken shortly after the incident

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Teams involved

- CDOT Maintenance
- CDOT Surveyors
- CDOT Staff Bridge
- CDOT Geotech
- CDOT R1 Communications
- HPTE (High Performance Transportation Enterprise)
- Kraemer North America
- David Evans\RJ Engineering



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 July-August 2019: Removing the damaged wall

On July 19, 2019, crews from Kraemer North America began removing the damaged retaining wall and the concrete pavement from above the wall to prepare the site for rebuild.

- The wall was removed from the top down.
- This work took place every day from July 19 through August 13, 2019.
- The damage was removed in total by August 14, 2019 and the rebuild began.



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 August 2019: Rebuild begins



On August 14, removal of the damaged wall was complete and rebuild began.

- During the construction phase, crews worked up to 24 hours a day, seven days a week, in 12-hour shifts to complete the emergency rebuild project safely and efficiently.
- A major challenge was keeping design ahead of construction and communication of the daily changes between all parties and shift changes

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 September 2019: Rebuild continues

Work rebuilding the wall and concrete pavement continued through September.

- The biggest priority for CDOT was to return eastbound US 36 to its original traffic pattern with three lanes in each direction.
- All 6,000 geofoam blocks were placed by mid September. The project was on track for an October opening of all traffic lanes.



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 **October 2019: All eastbound lanes open again**



On October 4, 2019, all lanes of US 36 were opened and restored to the original configuration, with the Express Lanes in both directions also open and operational.

- A temporary bike path also opened up.
- This marked a major milestone for the project.
- It took everyone coming together to meet this milestone.

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 **A closer look at the lanes opening back up**

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US 36 EASTBOUND LANES

US 36 is opening in its original three-lane configuration, with Express Lanes open and operational. Additional work on the wall, final bike path, and fence is expected to last through December.



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 **Ongoing work**

Once the lanes opened back to the normal traffic configuration, there was some remaining work.

- Additional work on the wall: 77 wall panels have since been placed to form the façade of the wall.
- Reconstruction of median barrier and lighting.
- Permanent bike path configuration and fence barrier separation from the highway.
- Weather delays became a challenge, as some work is temperature dependent. The team worked together to overcome lost time when construction couldn't occur.



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 February 2020: Nearing completion



Work remains but the rebuild is on track for a completion in early spring 2020

- All wall panels installed
- Bike path & site restoration work.
- Tremendous effort by all parties involved.
- Thank you!

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 **Questions?**

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