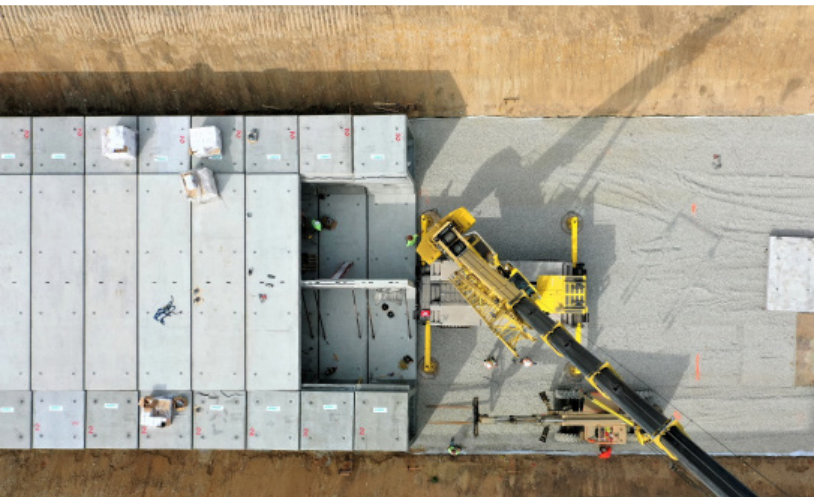
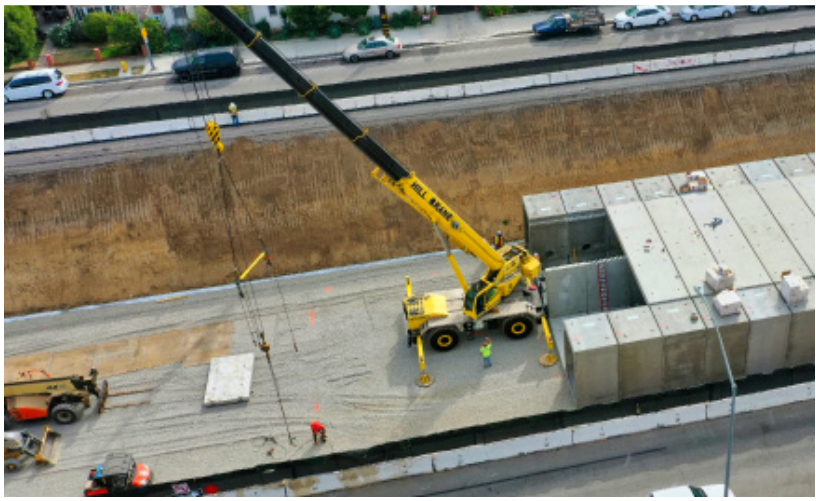
Infrastructure
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Culver City Reimagines Stormwater System for Water Quality Compliance

Culver City, California and the Culver Boulevard Realignment project has two goals. First, resolving issues with traffic flow patterns and pedestrian safety after the widening of the 405 Freeway. Second, to improve water quality in Ballona Creek before it's moved from the 8.8-mile long channel into the Pacific Ocean. Developing plans from Tetra Tech, Jensen Infrastructure designed an encompassing stormwater detention and treatment system that would capture, treat, and retain up to eight acre feet of stormwater runoff for reuse.

Project Details

Project Owner	**City of Culver City**
Architect/Engineer	**Tetra Tech**
Contractor	**Ortiz Enterprises Inc.**
Location	**Culver City, California**
Project Scope	**Jensen Detention Reservoir, Jensen Deflective Separators, Jensen Packaged Pump Station, Jensen Rain Wavter Harvesting Pump Package and Housing**

Questions? Let's talk. (775) 352-6345 info@jensenprecast.com

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Problem

New water quality targets were implemented by the Los Angeles Regional Water Quality Control Board which caused Culver City to reimagine what their water management infrastructure looked like. The new stormwater system needed to be able to capture water and reach new requirements for the Total Maximum Daily Loads (TMDLs) from 334 acres of watershed land for reuse. Additionally, it would need to fit under a brand new park median splitting Culver Boulevard.

Solution

Collaborating with the engineering firm Tetra Tech, Jensen provided a complete stormwater management system for Culver City. Jensen facilities in California and Nevada worked together over the course of the project to cast and deliver more than 500 pieces to Culver City to finish the job. Including two 10' diameter hydrodynamic separators, a 12' diameter rainwater harvesting pump package and a stormwater gallery measuring 537"W x 144"H x 650'L. This system complied with the new regulations set by Los Angeles and the Ballona Creek Watershed Management Group (BCWMG), all while fitting exactly where it was planned to without any missteps.

Key Outcomes

MS4 compliant

MS4 compliance is met by incorporating structural stormwater Best Management Practices.

TMDLs reduced

BCWMG obligations are met by capturing, treating, and retaining stormwater runoff to reduce TMDLs.

Safety resolved

The new half mile Culver Boulevard median resolves traffic issues and safety concerns.