

LAX ITF-WEST StormCapture® Installation

| Owner

Los Angeles World Airports

| Contractor

Swinerton

| Consulting Engineer

KPFF

| Stormwater Volume

86,386 CF

| Solutions:

StormCapture

Dual-Vortex Separator

MaxWell® Drywell

During construction of the Intermodal Transportation Facility–West (ITF-West) at the Los Angeles International Airport (LAX), Oldcastle Infrastructure delivered superior stormwater management by installing multiple products including StormCapture. ITF-West will stand as a new parking structure as well as the face of LAX, housing approximately 4,300 stalls, drop-off and pick-up locations, and short- and long-term parking options for travelers. The StormCapture detention system and accompanying products provided an efficient onsite solution to facilitate stormwater drainage and treatment.



CHALLENGE

Swinerton contractors are playing a key role in transforming LAX through the Landside Access Modernization Program (LAMP) to provide more transportation options for travelers and allow for adjustments in the future. The ITF-West facility is the first component of future-proofing LAX, where Oldcastle was contracted to design a StormCapture system for its large storage capacity under the new parking structure.

This installation provided a number of challenges along the way:

- | Innovative solutions were needed to address several site constraints and structural design parameters
- | Products needed to be installed quickly and efficiently in order to meet tight project timelines
- | The cistern's location created size constraints for StormCapture

SOLUTION

Oldcastle Infrastructure designed a custom storm water management system and long-term solution that fit all parameters of the project with StormCapture, Dual-Vortex Separator and MaxWell drywells being installed under the ITF-West's building footprint. Where site constraints played a role, Oldcastle's engineering team was able to design outside the box by incorporating reinforced concrete pipe (RCP) in place of vaults. From manufacturing to ease of installation and minimal handling on site, Oldcastle's products provided a valued solution that met the project's needs and tight schedule. The customized treatment train will serve as a secure and effective solution for the longevity of the site.

Structurally Superior

| The ITF-West at LAX installation is a great example of StormCapture's efficiency. With a large storage capacity that requires no concrete footing, StormCapture, integrated with other Oldcastle products, provides a reliable storm water management system.

Modular Design

| Focusing on the needs of the customer, the precast nature of StormCapture made it a customizable option for the ITF-West installation that could be used as part of a treatment train. It also came with the options to include Cisterns, space-efficient and sustainable modules, for harvesting rain and storm water.

Future-proof Solutions

| StormCapture is site-friendly with its easy-to-install design. Installed at a lifetime cost, this storm water management product is made to maintain for a long-term quality solution.

“ Because of site constraints and structural design parameters, StormCapture was the ideal storage solution for this project.

Grant Kai | PE Associate
KPF

