

# Ventura County Completes Retrofit for Groundwater Recharge Project in Oxnard Neighborhood with Stormcrete® Modular Precast Porous Concrete.

Ventura County has recently completed construction of the “El Rio Retrofit for Groundwater Recharge” project in Oxnard. In tackling this project the County had the following objectives in mind:

- \* Capture and infiltrate stormwater runoff for groundwater recharge.
- \* Treat urban runoff from the El Rio residential area to meet TMDL requirements.
- \* Mitigate street flooding issues.

The County’s options for remedying the flooding conditions in the area were limited as there is no piped underground drainage system present there. So instead of installing a new, costly, conventional piped storm drainage system, the County engineers opted for a porous pavement system which allows stormwater to infiltrate naturally back into the surrounding soils.

During the design process, David Kirby, PE, Water Quality Engineer for the Ventura County Watershed Protection District, noted his concerns for the quality control challenges in the placement of cast-in-place pervious concrete

coupled with the prospect of excavating, removing and repouring clogged areas. Mr. Kirby conducted research to find an alternate porous material and found the Stormcrete® Modular Precast Porous Concrete Stormwater System.

The Stormcrete® slabs are manufactured and pre-cured in a controlled environment, providing a high degree of quality control while allowing for reproducible strength and consistent flow characteristics. With permanent lifting points set in the surface, the slabs are removable/replaceable and can be lifted easily and reset if needed — providing an extra factor of safety when routine maintenance just isn’t enough.

After careful consideration, Ventura County specified a 2.5 foot wide strip of the Stormcrete® System along the curb line. The system is designed to capture and infiltrate stormwater runoff, all within the County owned right-of-way. All told, the county installed nearly one linear mile of the Stormcrete® slabs along curb line on sections of six different streets serving the Oxnard neighborhood.



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Slab placement

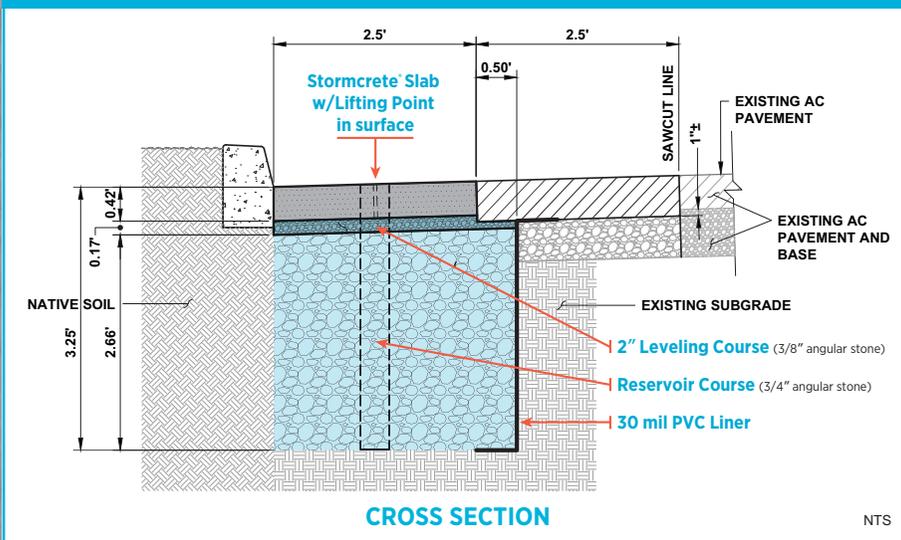


Stormcrete™ placed in gutter



Sub-base preparation

## STORMCRETE® MODULAR PRECAST POROUS CONCRETE



Delivery