

## CASE STUDY



### PROJECT DETAILS

**Project Name:**

City of Oshkosh Storm Water Project

**Location:**

Oshkosh, WI

**Project Owner:**

City of Oshkosh

**Product Manufacturer:**

County Materials Corporation

**Date:**

2013

**Key Products:**

Prestress Concrete Panels

## Prestress Panels Save Time, Lower Budget for City of Oshkosh Storm Water Project

**Solutions:** Prestress panels provide alternative storm water solution

The City of Oshkosh, WI sought to resolve flooding issues in its downtown area. Conventional storm water detention systems were deemed unacceptable because of space limitations. Instead, project leaders opted for an innovative underground solution using prestress panels from County Materials that helped improve parking facilities as well.

“For a conventional aboveground basin, we would have needed an entire city block,” explains city engineer, James Rabe. “We looked at the area and realized that we had over two acres of parking lot (at City Hall) and we could do something underneath it.”

The plan offered the benefit of parking facility improvement. The site consisted of two adjacent parking lots, formerly under separate ownership. A complete renovation would make the lot more functional by allowing drivers to maneuver through the entire parking area without having to exit and re-enter.

The site’s high-water table prevented the use of prestress storm water collection devices. Using them would have required redirecting groundwater, which could cause settling in surrounding structures. Instead, the city opted for a cast-in-place detention tank.

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However, the roof of the 22,500 square foot structure was not cast-in-place. The design team covered the storm water tank with 249 prestress concrete panels manufactured by County Materials. "We estimate that using the prestress panels cut three to four weeks off the construction window," says Rabe. The decision to use prestress products minimized the inconvenience of disrupted parking and lowered project costs significantly.



The inherent efficiency of County Materials' prestress concrete components helped project leaders meet the construction schedule. Prestress concrete panels were the ideal solution for the redevelopment of the City of Oshkosh.



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