

CASE STUDY



PROJECT DETAILS

Project Name:
WIS 100 Corridor

Location:
Hales Corners, WI

Products Used:
Reinforced Concrete Pipe

Contractor:
Musson Brothers, Inc.

Reinforced Concrete Pipe Offers Reliable Runoff Control for Major Highway Revitalization Project

Solutions: RCP provides unmatched strength at large diameters, making it suitable for large-scale storm water infrastructure

The aging WIS 100 corridor running through Hales Corners, WI was in need of a major overhaul to alleviate congestion and deteriorating road surface conditions.

To address the area's higher-than-average crash rates for the state of Wisconsin, the Wisconsin Department of Transportation (WisDOT) introduced new and improved intersection designs, which also enhanced access to the many local businesses.

A 1.7-mile stretch of WIS 100 from College Avenue to Edgerton Avenue was completely reconstructed with new storm water management systems, traffic lights, and additional turning lanes.

Reinforced concrete pipe was specified for the new storm water infrastructure for its unmatched strength and durability. RCP is a rigid material that is designed and manufactured to optimize water flow through its smooth surface and reliable joints. With low life cycle cost over a service life that can exceed 100 years, concrete pipe is a safe, reliable, and cost-effective solution for controlling large volumes of runoff.

County Materials manufactured and delivered 22,270 LF of reinforced concrete pipe in 48-inch and 66-inch diameters, along with 411 precast structures.

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The larger diameter pipe forms a single trunk line that conveys the area's runoff to a nearby creek. The smaller diameter pipe creates branches that connect to the trunk line from nearly 100 inlets along the road. The system also includes 58 manhole structures ranging from 7 feet to 9 feet in diameter.

County Materials coordinated with multiple crews to ensure timely and precise delivery of pipe and precast structures to help minimize road closure time.



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With unmatched durability and strength, concrete pipe is a safe and reliable solution for storm water infrastructure projects that are too large for other pipe materials.

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