

OVERCOME CHALLENGES WITH READING ROCK SOLUTIONS

The town of Powell, Ohio was met with a growing need to update its roadways as an increasing population has been causing congestion and backup near major intersections. Voters passed a \$1.8 million bond levy to upgrade local infrastructure, including the extension of Murphy Parkway in an effort to bypass downtown and increase travel efficiency.

The challenge

Extending Murphy Parkway was a great way to alleviate traffic from Four Corners intersection but faced a number of hurdles before the project could successfully be completed. One of the major obstacles was overcoming Tyler's run, a water pass running through the desired route. Two new culverts, in addition to one remaining, were installed to maintain the water flow underneath the extension. A significant retaining wall had to be built around these culverts in order to securely support the overhead roadway and newly upgraded bike path.

The solution

City officials desired a gravity retention wall to provide more dependable structural support. To best accommodate the steep grade and aesthetic needs desired to complete this part of the extension, a ReCon retaining wall system was installed. Rather than a cast-in-place retaining wall, ReCon offered more flexibility, allowing for a curved design to be enacted that could support itself, relying solely on its own weight. At some sections of the bend, the retaining wall reached almost 20 ft. high and had to be embedded underground for additional support. Riprap was placed at the base of the wall to ensure erosion wouldn't damage the structure in case of potential high-water. After preliminary designs and project surveys were conducted in accordance with our dedicated partners at EMH&T, construction of the Murphy Extension quickly got underway.

The results

This long-awaited project opened in late September, 2016 and highlights the cities dedication to roadway and capital improvements. The natural color and Weathered Edge look of the ReCon wall was a great addition to the parkway, and ties in seamlessly with the other numerous aesthetic landscape improvements along the addition.

The choice of the ReCon gravity retention wall sped up the construction process and was much easier to install, ensuring that the residents of Powell would be able to enjoy the benefits of the extension as soon as possible. Preparation for construction began in February, and the project was completed ahead of schedule nearly half a year later. In addition to being completed early, the city saved significantly in cost due to product choice. Murphy Parkway is a vital component in connecting the city's growing population paths and has successfully freed up the Liberty and Olentangy Street intersection.



“Traffic has dramatically increased over the years and we know our community is frustrated. The Murphy Parkway Extension is a great step towards improving congestion along our main arteries in Powell

- Steve Lutz, City Manager



QUICK PROJECT FACTS

Project Location	Powell, Ohio
Project Size	4500 sq. ft.
Product Used	Weathered Edge ReCon (Natural)
Project Owner	City of Powell
Contractor	Strawser Construction
Lead Engineer	EMH&T Engineers
Designer	Civil Design Professionals
Geotechnical Engineer	Geotechnical Consultants



Your challenge. Our solution.

Since 1947, Reading Rock has had a passion for manufacturing quality masonry products and is recognized today as a market leader providing Engineered Wall Solutions to customers with Allan Block Retaining Wall Systems, AB Fieldstone, GreenWall and ReCon, a big block retaining wall system.

Considered an industry leading, aesthetically pleasing as well as structurally superior retaining wall, ReCon offers the look, size and durability of massive natural stone and the long-term performance of a fully engineered structural wall. In addition, ReCon products offer among many features and benefits:

- ◆ Engineered wall solutions that accommodate wall needs rather than dictate them.
- ◆ Engineered and testing for tall gravity and geogrid walls.
- ◆ Exceptional quality produced from a controlled manufacturing environment.
- ◆ Durability (wet-cast, air-entrained).

Learn more. Ask an associate how Reading Rock can help you overcome a challenge with one of our Engineered Wall Solutions. Contact us at 800.482.6466 or online at www.readingrock.com to request additional information.