

CASE STUDY

# Replacing a 400-ft Church Wall from the 1920s

Mid-Hudson Concrete Products worked with Green Meadows Landscape Contractors to replace a failing 1920s wall. The challenge was that the old wall supported a large cemetery and could not be removed. The solution was to implement the easy-to-install **Redi-Rock block system** outside of the existing historic structure.

## The Benefits of Redi-Rock Retaining Walls

### Safety

Redi-Rock® walls create usable land. Whether you need to protect a shoreline from erosion, create a bigger backyard, or make room for a parking lot - Redi-Rock can help you find a solution to make the most of your space.

### Appearance

Redi-Rock blocks look good. That's because each block is cast in a mold taken from real natural stone. MHCP will be able to help you choose color options that match your landscape! See examples of LedgeStone, Cobblestone, and Lime Stone below.

### Longevity

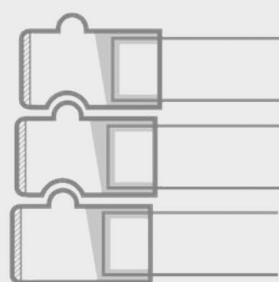
Redi-Rock blocks are cast using 4,000 PSI (27.6 MPa) concrete. The result is incredibly strong blocks that will stand up to harsh weather, freeze thaw cycles, wave action, and more. You'll find Redi-Rock walls at hospitals, schools, shopping centers, and tons of other locations.

## About Redi-Rock Retaining Walls: Versatile, Durable & Attractive

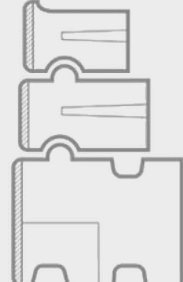
The versatility of the Redi-Rock system allows contractors, retaining wall engineers and landscape architects to create custom retaining wall solutions for a wide range of projects.

The design of the blocks allows for curved walls, 90-degree corners, and more to make a custom wall simple to install. Tall gravity walls are possible with Redi-Rock, meaning you won't have to mess with installing geogrid in many applications.

Building a wall used to mean laying stone walls rock by rock, a time and labor-intensive process. Redi-Rock walls allow complex structural walls to be built quickly. The addition of the ledgeStone finish was a game-changer for our businesses because it looks like real stone so it can be used in residential situations as well as commercial and municipal. The time they take to build now is about 1 week compared to 6 months of traditional wall builds. With Redi-Rock, if you can carry the blocks there you can build a wall there.



Tall Gravity Walls



Even Taller Reinforced Walls



LedgeStone



Cobblestone



Lime Stone

## Specs:

Old Wall: 400-ft Long

New Wall: 350-ft Long

Time to Complete: 7 Weeks Total



St. John's Roman Catholic Church in Orange, NJ is located on a heavily trafficked road and houses a large cemetery plot. The cemetery wall, originally built in the 1920s, had begun to fail as early as the 1950s. Buttresses were installed at the time to support the structure. Time continued to take its toll until plans to redesign a wall around the property were began around 2010.



## The Challenge

### Challenges:

- Existing Wall Could Not Be Removed
- Heavily Trafficked Work Area
- Small Depth Needed Custom Sizes

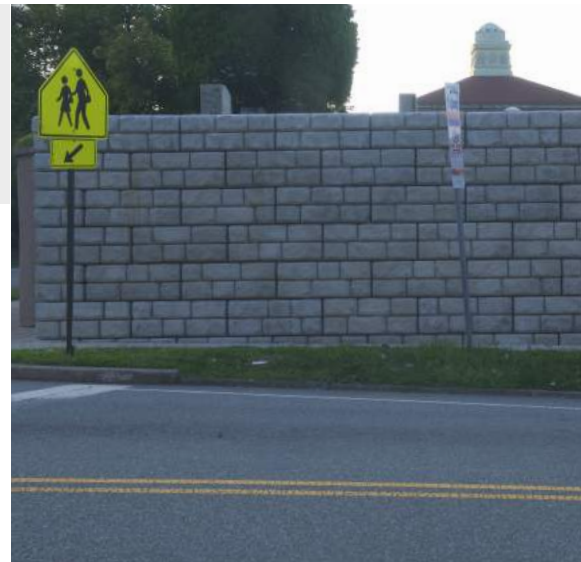
Because of the size of the cemetery and the nature of the old retaining wall, the old wall could not be removed as it supported grave sites on the perimeter of the cemetery. A design was created for a wall that would sit outside of the old wall and structurally support the structure as well as the sacred area behind it.

The work space to install the new wall was also limited due to the busy local traffic. The open road and winter weather delays caused the project to take 7 weeks total.

## The Solution

The solution for the project was Redi-Rock retaining wall blocks system due to its **appearance, longevity, durability, and ability to support the old structure**. Mid-Hudson Concrete Products delivered Redi-Rock blocks to Green Meadows Landscape Contractors on site. The team found it easy to put the block system together, and the result is a clean and attractive addition to the church's property.

Mid-Hudson Concrete Products also provided **custom 22" deep blocks** for certain wall locations. Standard block depths are 28", 41" and 60".



## The Work in Progress



Visit [www.greenmeadowsinc.com](http://www.greenmeadowsinc.com) to learn more about this contractor.



## About MHCP

Mid-Hudson Concrete Products is the leading provider of standard and custom precast concrete products, and the exclusive manufacturer of the Redi-Rock retaining wall system.

We're committed to developing long-lasting relationships with our customers by providing quality precast concrete products and exceptional customer service for general contractors, developers, civil engineers, landscape architects, and other construction and design professionals.

As the premier precast concrete manufacturer of the Hudson Valley, we provide reliable service and quality products for residential and commercial projects. We guarantee prompt delivery 6 days a week to Putnam, Orange, Ulster, Westchester, Rockland, and Dutchess Counties in New York.

## The MHCP Process

- 1 Evaluation
- 2 Proposal
- 3 Order
- 4 Delivery
- 5 Installation