



ENGINEERING NEWSLETTER

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SEPTIC TANK DELIVERY – SUMMER 2016



Every day 8-10 septic tanks are delivered around the 10 WNY counties by Kistner Concrete. All kinds of sites are encountered as seen above.

By Claude Goguen, P.E., LEED AP

It's the 1860s and a young French man surveys his land. He has an idea, so he digs a hole, builds a large underground container out of concrete and uses clay pipe to funnel wastewater from his home to the tank. He designed the tank to allow overflow to be released into a cesspool.

A few years later, he inspects the inside of his tank to find mostly liquid effluent and almost no solid waste. Amazed, he submits an application for a patent. This man is John Louis Mouras. He is credited with building the first septic tank.

Mouras is one of many in a long line of humans throughout history who have used concrete to create incredible structures and solve everyday issues. Manufacturing and material technologies have evolved over time making precast concrete tanks better than ever.

LOCKPORT RD. - 20 X 9 KAST-SPAN

Project: Lockport Rd. Bridge Replacement - 20 Span x 8'-10" Tall Location: Lockport Rd., Over Bull Creek, Town of Cambria &

Pendleton, NY

Owner: Niagara County DPW - % Bruce McNutt, P.E.

Engineer: Bergmann Associates - % Joel P. Astyk, P.E.

Contractor: CATCO

Bid Date: Spring 2016

Product Designation: Kast-Span - 3 Sided Flat-Top Culvert System With Precast Wing Walls.

Project timeline: Spring Bid - Fall Install Install 8-11-16 Install 1 Day.

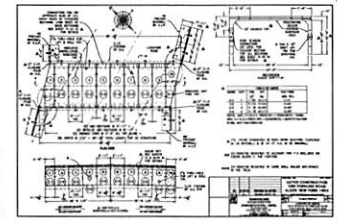


Purpose for Project: Replacement of undersized & deficient bridge for Stream Crossing

What made this project a creative use of precast: 3 Sided Kast Span with 30 Degree Skewed ends & Keyway w/ Epoxy Rebar Couplers for CIP Approach Slabs .

Testing requirements for the project met the NYSDOT Precast Standards.

Project size? Est. \$ 100,000.00 w/ 4 Precast & Wing Walls.



BC12X7 - LEMKE RD. - WHEATFIELD

Lemke Dr. Wheatfield - Box Culvert 45' Lf - 12'-0" Span x 7'-0" Rise.
2 Attached Head Walls, 2 Precast Toe Walls

Contractor: Yarussi Construction Inc.

Product Designation: HS-20 Loading - 1.99' Fill. -
6500 PSI
6 - 16 Ton Sections

Install: 8-31-16, 10:00 am - 1:00 pm



Barrier - RTS Campus Improvements

Project: RTS Campus Improvements

Location: Rochester, NY

Owner: City of Rochester

Engineer: Labella Associates

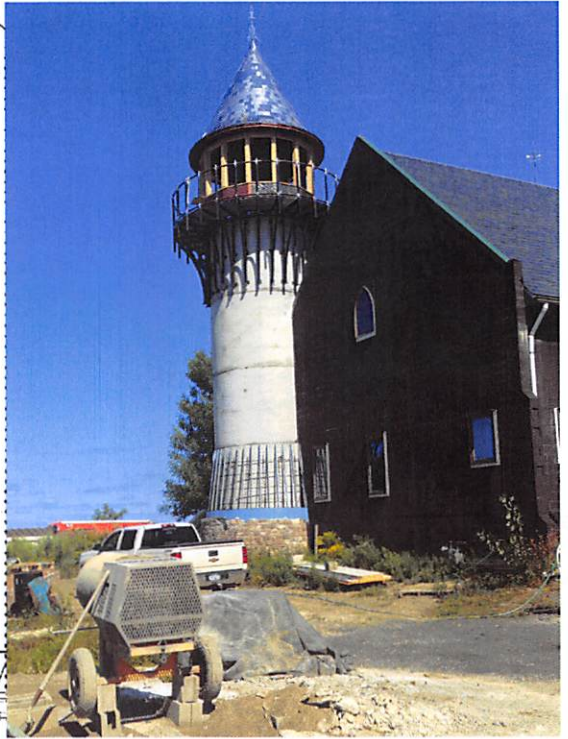
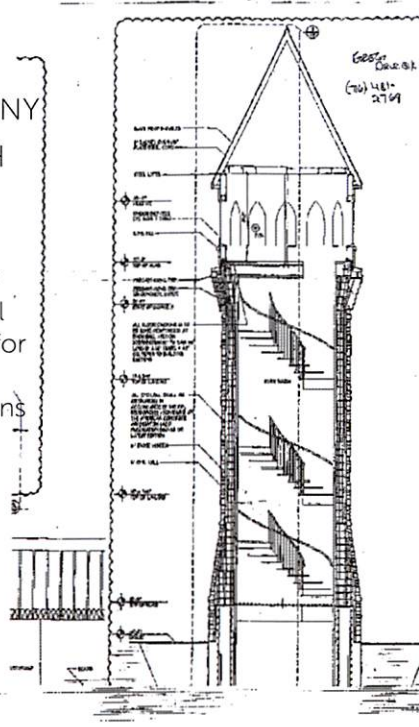
Contractor: Difiore Construction Inc.



LIGHTHOUSE IN SHERIDAN NY

Project: Precast Lighthouse
 Owner: Druz bik
 Engr.: Scheid Architectural, Buffalo, NY
 Mfg: 4 - 8' Sec. of 10' dia. Custom MH
 for Lighthouse

Precast units were custom mfg. with sets of matching Weld Plates at top & bottom of all sections to allow for field welding of straps for structure continuity. A partial opening was supplied for handling strength for installations & full door opening was field cut for door opening at base of unit. A circular stairway



**TAKE A NEW LOOK AT
 PRECAST**

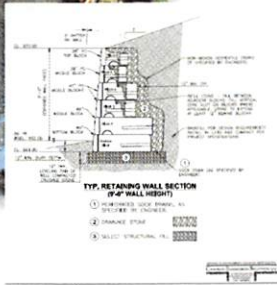
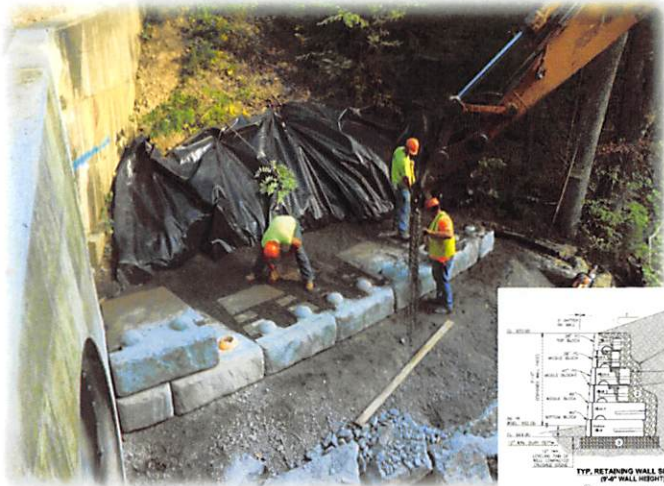
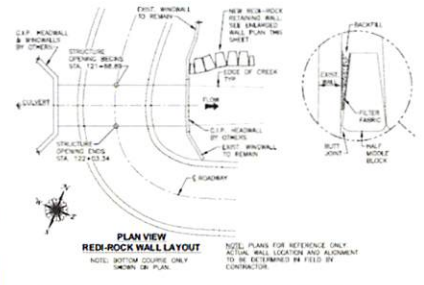
www.precast.org/newlook

TOWN OF OTTO REDI-ROCK RETAINING WALL

Project: Redi-Rock Small 9' tall wall. 39 blocks. Contractor- Ed Bauer Construction Engineer- Wendel Engineering

Kistner worked directly with Ed Bauer Construction and Wendel Engineering to come up with a solution to help prevent erosion of existing wing wall.

Contractor and Engineer were looking for a flexible wing wall system that allowed the wall to curve, and direct water flow.



Stormwater Treatment Systems & Precast: - StormPro®

Project 2016 StormPro - D263118 - NYS Rt. 62 Wheatfield, NY, Bid 2-18-16. Location: NYS Rt. 62 Wheatfield, NY Owner: NYSDOT

Engineer: NYSDOT Contractor: Oakgrove Construction Inc.

Product Designation: 4 - Precast Concrete Storm Water Treatment Systems - SWTS.

Unique Issues:

- All SWTS meet NJCAT Standards
 - 3 - StormPro units 5' x 10' x 5', 1 - SWTS # 4-1 - 8' x 16' x 8'
 - **Precast is the material of choice for Storm Water Treatment units...**
 - Note: SWTS are sized & must meet: Specified Water Quality Treatment Flow Rate (WQFR) without scour. This is Typically measured in CFS - Cubic Feet per min.
 - Pics detail installation of SWTS # 4-1 - 8' x 16' x 8'.
 - Max Wt. Barrel @ 20 Ton, Top & Bottom slabs approx. 10 Tons ea.
 - Note: 4-way equalization Sling is used for proper & safe Lifting.
- SWTS # 4-1 - 8' x 16' x 8' - Vault install time approx. 3 hours



10 CONVENIENT LOCATIONS

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