95-foot Long Utility Tunnel for Golisano Children’s Hospital at Strong Memorial

General Contractor Manning Squires Hennig contracted to build a 14’ x 14’ x 95’ long utility tunnel for two new 24” chilled water lines and for a personnel crossing serving the hospital. The original schedule called for the tunnel work to be cast in place, and performed during the winter, which would have increased costs due to weather protection and temporary heating requirements. The water lines would have to be completely...
95-toot Long Utility Tunnel (continued from page 1)

installed prior to finishing the tunnel, or have their sub install the 24" waterlines from the inside, which would have been very hard.

Manning Squires Hennig chose to go with precast in order to construct the tunnel in sections. The lower 10' of the tunnel was produced by Lakelands Concrete Products Inc. and set in place. Then the chilled water lines were placed, and the top tunnel sections were placed. Having the top of the tunnel open increased the ease and speed of installation of the lines, allowing the installers the ability to work from the ground on top.

The lower 15 sections were placed in 7 hours, and the top 15 sections were placed in 5 hours. The sections were then grouted and waterproofed. Lakelands worked with MSH in order to locate the openings required for the chilled water lines and the electrical, as well as coordinating the blockouts for the structural columns. Thanks to Chad Bond, Lakelands Concrete Products, for submitting this article.

Mechanicsville South Street Safety Improvement Project, Mechanicsville, NY

An old narrow road going down a steep hill suffers washouts occasionally and was always a dangerous place for pedestrians. Engineers Barton & Loguidice, PC, were engaged to solve these many shortcomings. Working with contractor James H. Maloy and precaster Binghamton Precast and Supply, the scheme developed, as shown here, provided structural restraint for the sloping earth, safe sidewalk space for pedestrian traffic, and an attractive appearance for the local population.

Approximately 3200 blocks were supplied to construct about 17,000 sf of walls, caps, stairs, etc. During casting an integral dye and anti-graffiti sealer were used. Thanks to Jay Abbey and John Sanford of Binghamton Precast and Supply for this information.
Lower Harbor CSO Storage Facility, Syracuse, NY

The Lower Harbor Brook CSO Conveyance and Storage Facility Project is a 4.9-million gallon combined sewer overflow facility that will be located on County-owned property on State Fair Boulevard. The facility will capture and store the overflows from three CSO’s for up to the 1-year, 2-hour design storm event. This new 160 ft dia. round water storage tank is a hybrid of sorts, comprised of cast-in-place walls and precast top, interior columns and beams. The precast was carefully designed for maximum protection against corrosion – stainless-steel base plates and anchor bolts, stainless-steel headers, and made with Penetron admixture. Erection is scheduled to start August 23. Precast structural elements include: 1,750 sf of 8” x 4’ 0” Elematic planks, 16,800 sf of 12” x 4’ 0” Elematic planks, 18 pcs 24” x 24” x 53’ 10” PC Columns, 45 pcs 24” x 24” IT Beams and 18” x 24” L-Beams, 2 pcs 12” thick solid slab.

Project architect and structural engineer: O’Brien and Gere; general contractor: C.O.Falter Construction; Precast supplier: Oldcastle Building Systems. Thanks to David Wan, P.E., LEED AP for this article.

Lower Harbor Brook CSO Storage Facility – View from State Fair Boulevard

NEPCA Summer Conference 2013
(Northeast Precast Concrete Association)

Everyone is invited to attend the June 28 Open House at Lehigh Northeast Cement Company, 313 Warren Street, Glens Falls, NY 12801, 7:30 am – 2:30 pm. Learn about cement manufacturing, new blends, how to solve various concrete problems, etc. Engineers can earn 1.0 pdh.

Welcome New PCANY Members:
Custom Precast Vaults Help Steuben Foods Meet Very Tight Schedule

Kistner Concrete Products supplied one 12' x 12' custom precast cover for an existing process vault, two 12' x 24' x 12' ID process vaults for PH neutralization, and 273 if custom tunnel sections for process improvements at Steuben Foods, East Aurora, NY.

Precast was critical to meeting the tight production schedule for plant shut down, enabling the updated system to go on line when planned. The engineer was Anthony J. Anderson, P.E. of Ronald J. O’Mara P.E., P.C. Thanks to Michael J. Kistner for submitting this article.