Notes From The Director

Our Fall 2017 PCANY meetings will be held Thursday November 2nd at AGC Headquarters, 10 Airline Dr., Albany. Our regular membership meeting will start at 9:30 followed by a joint meeting with NYSDOT at 1:30pm. We will again have an informal dinner for those who want to come and socialize the evening before.

The 2017-2018 PCANY Buyer’s Guide is now available for viewing. I will place an order for hard copies in the next couple of weeks so there is still a little time to make changes to your listing. A special thanks to the advertisers who help to support this effort.

Warmest Regards,

Ronald E. Thornton, P.E.
Route 211 Over Unnamed Stream—Town of Wallkill

Submitted by Kevin Balachick of Binghamton Precast & Supply Corp

This design-build project included the demolition of an existing 23’ twin span box culvert and replaced with a 28ft span x 11ft rise arch culvert. The new 87ft culvert consisted of (15) sections at 5’-9” each plus (4) anchor style wingwalls with a maximum height of 17’-5”. Cast-in-place spread footings were placed on rock to support the precast arch and wingwall elements. Precast headwall/spandrel units were mechanically attached at each end of the culvert.

Installation of precast elements continued around the clock commencing from 9am on day one to 2:30pm on day two. Erection was facilitated by a 350ton crane with enough reach to overcome challenging site conditions and reduce the number of moves.

<table>
<thead>
<tr>
<th>Project Credits:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Owner: New York State Department of Transportation</td>
</tr>
<tr>
<td>Design-Build Team:</td>
</tr>
<tr>
<td>Contractor: A. Serevidone / B. Anthony Corp,</td>
</tr>
<tr>
<td>Engineer: VHB Engineering, Modjeski and Masters, Inc</td>
</tr>
<tr>
<td>Precast Manufacturer: Binghamton Precast &amp; Supply Corp, Binghamton, NY</td>
</tr>
</tbody>
</table>

Precast arch units, wingwalls, and headwalls installed and ready for backfill

End view of arch culvert & wingwalls

Cast-in-place spread footing with keyway and shims
Precast Concrete Solutions in Extreme Environments

Contributed by Claude Goguen of The National Precast Concrete Association

Our nation’s infrastructure is subject to potentially destructive environmental conditions including extreme hot and cold weather, earthquakes, hurricanes, and tornados creating many challenges for engineers and designers. There are other tough environments that are not weather related such as high traffic areas, vehicle collision, salt water exposure, and security enclosures.

Regardless of the condition, the precast industry has the solution. Jointed Precast Concrete Pavement (JPrCP) provides rapid durable replacement of deteriorated roadway sections. Storm shelters & safe rooms are designed to resist wind loads up to 250mph and 100mph projectiles according to FEMA standards. Security vaults and panelized enclosures are virtually impenetrable due to the use of ultra high-strength concrete (20,000psi+) and specialized steel fiber technology.

Placing concrete during harsh winter conditions is extremely challenging. Heated enclosures must be erected and maintained both before and after the pour so as not to adversely impact setting time and strength development. Using precast for both above and below-ground utilities as well as bridge decks, culverts and building elements allows for year-round construction.

Claude Goguen, P.E., LEED AP is Director of Sustainability and Technical Education for NPCA.

PCANY is an Affiliate member of NPCA. Check out all of our members in the PCANY Buyer’s Guide located on our website.
Fall PCANY Meetings Scheduled...
For 9:30am Thursday, Nov 2 at AGC Headquarters 10 Airline Dr., Albany 12205. Our joint meeting with NYSDOT Materials and Structures Bureaus will be in the same room beginning at 1:30pm.

Statewide Conference on Local Bridges
PCANY Director Ronald Thornton, P.E. will be presenting “Innovative Uses of Precast Concrete in Accelerated Short Span Bridges” at the Holiday Inn, Syracuse on October 26. (Information & Registration)

2017 Southern Tier Professional Development Symposium
PCANY Director Ronald Thornton, P.E. will be presenting “Precast Concrete Solutions in Extreme Environments” on Tuesday October 17th at the Holiday In Arena, Binghamton (Information & Registration)