

## *In This Issue: Miscellaneous Projects*

### **World Wide, World Renown Barilla Builds in Avon, NY**

From their news release of 3-10-2006: Barilla America, Inc., maker of America's top-selling brand of pasta, and Jacobsen Warehouse Company, Inc., a supply chain logistics services company, announced plans for a new pasta-making and distribution facility. The two companies will be investing approximately \$96.2 million to build its second U.S. facility. The Avon, NY plant will service the Northeastern United States, which accounts for over 50 percent of Barilla's U.S. sales. Barilla America President Kirk Trofholz said "We were looking for a community that would provide the same hometown feel as Parma, Italy, as well as the right mix of benefits. We found all of that in Avon."

Whiting-Turner of Baltimore, MD was selected as the design-build construction manager and their architects and engineers, Transystems Corporation Consultants, York PA, were responsible for final design. An FTP web site was set up so all participants in the project could access to the evolving design drawings and specifications. One of the many issues needing early resolution was the selection of the exterior wall system which controlled precast design because normal "X" bracing was not allowed for cleanliness reasons. The wall selection eventually required the design of rigid frames requiring moment transferring column connections.

The Whitford Companies, with engineering by A. H. Sample, Ottsville, PA, responded with the right combination of design, pricing, and scheduling. Ultimately Whitford agreed to erect 76,500 square feet of precast in a six month window (which was critical to successfully negotiating the precast contract). In total, the project included erecting 201 pieces of precast by Thanksgiving 2006. That included 45 columns, 15 inverted tee beams, 22 "L" beams, 24 eave beams, 81 double tees, 14 hollow core plank furnished by W-T, and 45 field cast, specially reinforced, concrete top-of-column moment connections.

Meeting W-T's schedule was a company-wide effort. Jim Green lead the modifications to the inverted tee forms when the original supplier couldn't meet our scheduling needs. Larry Crast arranged for the equipment and training personnel in fabricating the special Lenton rebar coupling system that was selected for the framing connections. Bob Shields, Rick Smith, and the entire precast division produced 187 pieces between August 15 and October 28 – ahead of schedule, and with a superior finish achieved with SCC concrete.

Although the materials division's production was ahead of schedule, W-T's foundations were not ready and a 275 Ton Manitowoc crawler crane was not available until October 22. Scott Schmitt, raising gang super, who left the area after our Salamanca parking garage, returned

*cont. on page 2*



**Moment resisting framed structure installation.**

The next part of this impressive story was written by Jim Barnes, L.C. Whitford Co. Barilla's consultant, Faithful and Gould Inc., of Minneapolis, MN, requested design build proposals from 4 pre-approved construction managers and they all requested precast concrete proposals from L.C. Whitford. Precast concrete structural framing and roof deck were selected for the 104' x 704' x 37' to 42' high manufacturing portion of the 300,000 SF facility because of concerns about maintaining interior cleanliness under potentially high heat and humidity conditions.

## World Wide, World Renown Barilla Builds in Avon, NY *cont. from page 1*

from his current assignment in Las Vegas, to lead the erection. With the assistance of Dick Fanton on site, and Deb Ford coordinating the trucking permits and deliveries, we were able to complete the job on time - and without a punch list!

The L.C. Whitford's contract represented \$2.3 million of the \$96.2 million Barilla and Jacobson invested in its second U.S. pasta-making and distribution facility. When operational in late June 2007, it will employ close to 90 NYS residents and pour millions of dollars into the local economy. The Whitford Companies' success on this project has already resulted in another potential project with Whiting Turner – we are currently being considered for another food processing facility in New Britain, CT. Thanks to Jim Barnes for this story and the pictures.



Barilla Phase I Operations Will Commence June 2007.

## Burnett Concrete Products Expands



Congratulations and Good Luck to Joe Burnett and crew on their new facility addition, which houses a recently acquired automated batch plant. Considering the



years they have produced with an old mixer driven by a transmission taken out of an old truck, they will produce magic with this equipment!

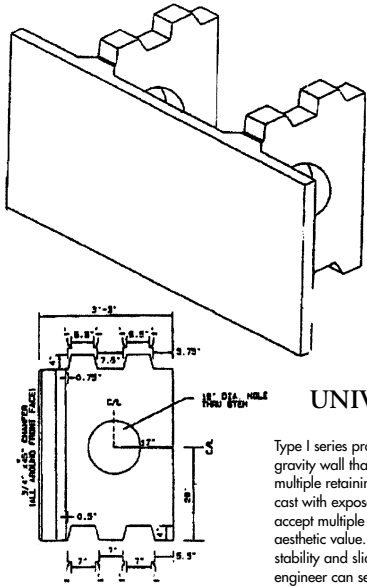
## UNIVERSAL WALL Systems - A Technical Breakthrough

Long time PCANY Professional Member Raymond J. O'Neill is involved with a new patented precast concrete wall system. He writes "The word Universal is applicable to the wall system as it can be utilized for any wall design, be it for architectural purposes, deep foundations, wharf structures, slide correction, bridge abutments (including railroad loadings), impermeable flood walls, plus no limits on wall heights."

"Each face panel covers 32 s.f. and the overall depth of the interlocking units is 39". Patented framing details permit a single mold for all applications. Weight of the units can vary from less than a cubic yard (about 4000 lbs) to a yard and a half (about 6000 lbs)." The Universal Wall System permits multiple permanent anchor systems, speed of installation, easy modification, and requires a very small structural plan footprint.



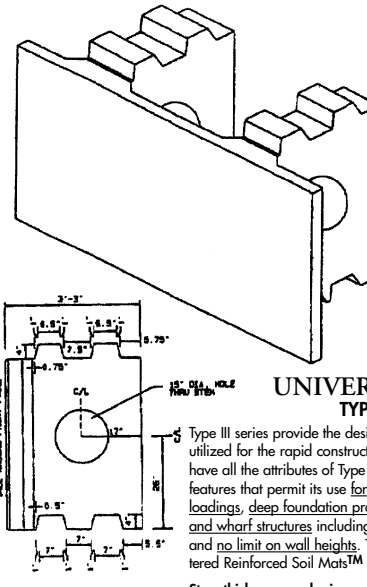
Interested precasters and engineers can contact Ray at O'Neill Consulting; our website and Directory both contain listings of all members.



**UNIVERSAL WALL™  
TYPE I SERIES**

Type I series provide the designer an economical gravity wall that is utilized for the rapid building of multiple retaining wall structures. The units can be cast with exposed aggregate, cut stone finish or accept multiple imprint segments to enhance it's aesthetic value. When the accepted engineering stability and sliding factors are exceeded, the engineer can select multiple soil reinforcement systems that are available for Type I and III wall series. This provides an economical advantage including battered walls.

SIDE VIEW



**UNIVERSAL WALL™  
TYPE III SERIES**

Type III series provide the designer a rugged gravity wall unit that is utilized for the rapid construction of selected wall structures. The units have all the attributes of Type I series but offer unlimited engineering features that permit its use for soil nailing, post tensioning, railroad loadings, deep foundation projects with permanent tie-backs, pier and wharf structures including tender systems, bridge abutments, and no limit on wall heights. The Confined Soil Anchor™ and battered Reinforced Soil Mats™ are used in the decision of high walls.

**Stem thickness can be increased from 6" to 12" and the face panel thickness from 5" to 8".** Pan inserts can be utilized to reduce concrete volume when required. Other features available are not shown on Uwall sheets I and III.

SIDE VIEW

## 40 RPI Civil Engineering Students Tour Oldcastle Facility

Professor Gianluca Cusatis and 40 students from his Concrete Design I course had the opportunity to tour Oldcastle's state of the art precast prestressed production facility in South Bethlehem, NY on Friday April 20th.

Oldcastle's Building Systems Engineer, David Wan – himself an RPI graduate (class of '85) led the tour and explained to the students how a typical precast plant is set up and operated. The students saw automated materials handling systems, prestressing strand and equipment, Elematic hollow-core extruders, various types of casting beds, QC testing equipment, precast wall panel manufacturing, overhead cranes, fork trucks, etc. At the end of the tour, David also explained to the students that many businesses today need engineers in many different roles.

In addition to design, engineers will be employed to fill sales, project management, QC/QA inspection and management, and even senior management positions later in their careers.

Oldcastle and RPI have had a long relationship of working together. In fact several graduates of RPI programs are currently employed at Oldcastle in engineering and sales. Oldcastle has also supported recent research for the chemical engineering department. Mr. Wan is also assisting the Civil Engineering department with the LRFD bridge design seminar for NYS DOT next month.

Thanks to Nesil Normile, Sales Manager, Oldcastle Precast Building Systems Division for this news release and the photos.



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PRECAST CONCRETE ASSOCIATION OF NEW YORK

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## Congratulations To

Our Associate Member, Northeast Solite, on the celebration of their 60th year supplying lightweight aggregates and related products to the concrete industry.

The Fort Miller Company for *another* NPCA Quality Award of Excellence (the highest level) in the Plant Certification Awards, and to both Coastal Pipeline Products and Zeiser Wilbert Vault Inc. for their NPCA Plant Certification Awards in the 10 Years Continuous Certification category.

## Website Reminder

The PCANY website is an easy way to contact any PCANY member, to find who makes the products you are looking for, to read and download any previous newsletter, and for members to keep informed regarding the meetings they missed, such as the Association meeting and the NYSDOT Joint Meeting, both on May 30 in Albany.

And if you haven't registered for the PQS I and/or PQS II Technical School, scheduled for June 19-22 in Manchester, NH, check with NPCA to see if there is still room in either class.

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