



# AT A GLANCE™

An informative newsletter from the award-winning international planning, design, and construction management firm of Gannett Fleming

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## Holiday Greetings

It is hard to believe that another year will quickly be drawing to a close. We want to take this opportunity to extend warm holiday wishes to each of you who have made 2005 so rewarding for our firm. During the next few weeks, please take some well-deserved "time out" to enjoy the holidays with family and friends. We will see you in 2006!

### Gannett Fleming Responds to Round-a-Bout Demand

Round-a-bouts are accepted as one of the safest types of intersection design for low- to medium-volume roadways with relatively low approach speeds. They have been used around the world to increase intersection capacity, while reducing accidents, traffic delays, fuel consumption, air pollution, and construction costs. While only having been deployed in the U.S. since the early 1990s, modern round-a-bouts are gaining in popularity, with about 1,000 operating across the country. In response to client demand, Gannett Fleming is continuing to diversify its round-a-bout design experience. The following provides an overview of our most notable work.



*RU's Busch Campus  
round-a-bout*

**Rutgers, the State University (RU) of New Jersey — Busch Campus Round-a-Bout, Piscataway Township, N.J.** This round-a-bout serves as a functional means of traffic circulation and an attractive centerpiece of the campus roadway network. The feature reduces vehicular speeds in the vicinity, provides continuous movement for each approach, and creates a safe, pedestrian-friendly crossing of major campus roadways.

**Newark Penn Station (NPS) — Raymond Plaza West, Newark, N.J.** NPS is a gateway to New Jersey's largest city, providing multi-modal and interconnection services for subway, bus, taxi, and rail, with connections to the airport. The project involved reconstructing and converting the plaza to two-way traffic and incorporating a mid-block round-a-bout. Key features included incorporating a dedicated bus lane during the evening peak hour; adding taxi, bus, and patron vehicle pullout with textured pavements; and adding a security perimeter and textured mid-block crosswalks. NPS is listed on the State and National Registers of Historic Places. Therefore, all modifications and aesthetic enhancements are consistent with the station's historic qualities.

**8th Street at Central Avenue Round-a-Bout — City of Albuquerque, N.M.** Currently in final design, this round-a-bout will be the first one constructed by the City. The new single-lane urban round-a-bout will replace an existing five-legged signalized intersection. An estimated 12,500 vehicles per day are expected at this intersection, and the project is adjacent to three properties of historical significance. The new round-a-bout will restore the City's Downtown grid system, create a central focus point on the west side of Downtown, provide necessary turning paths for larger vehicles, accommodate the future light rail corridor, and expand the decorative street theme.



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## Design-Build Project Receives Regional Recognition

Our Akron office's Plymouth Ridge Road Bridge Replacement Project was recently honored by the Design-Build Institute of America (DBIA) – Ohio Valley Chapter with the Design-Build Best Project Award in the "Transportation under \$15 Million" category. This project required the demolition of a truss bridge on stone abutments. The structure replacement utilized a design-build process that involved a single-span, rolled-beam replacement structure, approach work, road replacement, and drainage. Turned-back mechanically stabilized earth (MSE) walls were used to support the bridge superstructure due to right-of-way constraints.

Located in Ashtabula, Ohio, this design-build project consisted of several difficult design considerations, including right-of-way limitations, utility conflicts, and drainage constraints. These project challenges dictated that the design-build team, consisting of Gannett Fleming and Union Industrial Contractors, work together during the conceptual stages to determine the risk, constructability, feasibility, cost, and simplicity of construction. This project was completed ahead of schedule.

Sustainability and aesthetics were also important to this project. A sustainable approach was accomplished by utilizing stone blocks from the old bridge abutments to build a retaining wall that was required in a cut section adjacent to a cemetery within the project limits. This wall was aesthetically pleasing and enhanced the overall site with a very natural look.



*Plymouth Ridge Road Bridge Replacement Project — rear abutment and MSE wall*

## Kemp Lends International Bridge Experience

The Ohio Valley region of Gannett Fleming is pleased to announce the addition of Dr. Emory L. Kemp, P.E., to its staff. Having researched and preserved historic structures, such as covered and suspension bridges, around the country and abroad, Dr. Kemp is well respected for advocating for the structures' public interpretation. Dr. Kemp has served as president of the Public Works Historical Society and Society for Industrial Archaeology.

Dr. Kemp, an honorary member of the American Society of Civil Engineers, will be collaborating with senior structural engineer Samer Petro, P.E., on the rehabilitation and preservation of King's Covered Bridge in western Pennsylvania. **Dr. Kemp and Samer worked together previously on several rehabilitation bridge projects in Ohio, including the Salt Creek Covered Bridge, built in 1876, in Muskingum County.** They will be pursuing similar future opportunities in Ohio, Pennsylvania, West Virginia, and Kentucky.

Dr. Kemp joined the West Virginia University (WVU) in 1962 to establish a graduate program in structural engineering and also founded the university's History of Science and Technology program. Since 1989, he has served as director of the Institute of History of Technology and Industrial Archaeology at WVU. Welcome, Dr. Kemp!

## Four Projects Named to "Top 10"

We are pleased to share that four Gannett Fleming projects have been recognized by *Roads & Bridges* magazine for their unique solutions developed to overcome various challenges. For more information about any of these projects, please visit our Web site, [www.gannettfleming.com](http://www.gannettfleming.com).

### 2005 Top 10 Roads List

- Route 18 Extension, Section 2A – Piscataway Township, N.J. – No. 3
- Cranberry Connector – Cranberry Township, Pa. – No. 5
- Louisiana Boulevard/I-40 Interchange – Albuquerque, N.M. – No. 10

### 2005 Top 10 Bridges List

- Youghiogheny Reservoir Steel Bridge Alternate – Fayette and Somerset Counties, Pa. – No. 5



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