

## GFIA Transforms Gateway for Travelers' Benefit

Since 9/11, security screening for air travel has become more complex, resulting in longer screening lines. Gerald R. Ford International Airport (GFIA) has also experienced record-breaking increases in passengers over the past five years.



GFIA's new consolidated security checkpoint provides a simple and efficient process for travelers.

These two factors created time and space issues for the airport and its travelers. Additionally, most of GFIA's retail and food concessions resided in its Grand Hall. TSA regulations do not allow passengers to take food and drinks through checkpoint screening, and options past the checkpoint at GFIA were limited. It also had separate security checkpoints for Concourse A and Concourse B.

GFIA wanted passengers to be able to go through security and then relax with more activities and food options available to them before boarding. To accomplish this goal GFIA hired a team of architects

and engineers to design a major terminal addition with one security checkpoint for both Concourse A and B and an expanded post-security area, now called *Marketplace* (cover photo).

Prein&Newhof designed and coordinated the site civil engineering work associated with this development, including: asphalt and concrete pavements, water, electric, storm water, sanitary, and gas utilities. P&N also coordinated with FAA/airport operations to complete a construction phasing plan, and created a new internal "You Are Here" map to help orient passengers and show the location of new amenities.

The addition includes new flooring, lighting, restrooms, nursing rooms, family restrooms, pre- and post-security kids play areas, pre- and post-security business centers, and meet-and-greet spaces.

The team also redesigned an observation area on the mezzanine of the Grand Hall so visitors can watch the planes with their friends and loved ones onboard.

This \$45 million project was made possible with many partnerships and donations from sponsors. The project began in 2015 and its completion was celebrated with a ribbon cutting ceremony at the end of September 2017.

Do you want to know more about P&N's airport engineering services? Contact **John Stroo, PE** at 616-364-8491.

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The Consolidated Checkpoint and *Marketplace* Project is a defining achievement in transforming West Michigan's gateway at the Gerald R. Ford International Airport. The outstanding support provided by P&N Engineer John Stroo, PE and the Prein&Newhof team has fostered a successful partnership with the Airport Authority that spans over two decades.

—Phil Johnson, AAE  
Former Deputy Director,  
Gerald R. Ford International  
Airport

## Kalamazoo Lead Water Services Replacement Program

The City of Kalamazoo was already working on a project to replace its lead pipe water services when the Flint Water Crisis made national news in 2016. Following this, the City decided to accelerate the timeline for its own drinking water system. With nearly 123,000 customers served by the City of Kalamazoo Public Water System and 17 million gallons of drinking water supplied daily, it was apparent that replacing existing lead pipes at a rapid pace wasn't a simple or easy task.

Unlike many municipalities, however, Kalamazoo actually owns the system up to the meter just inside each home owner's residence. While still a huge undertaking, replacing this water system's lead pipes is much easier than if hundreds of thousands of individual residents owned these service pipes and attempted to coordinate their replacement.

The City's crews have been replacing approximately 50 lead service lines per year for the past several years, but wanted to increase their progress to 450 replacements per year.

To implement this ramp-up, Kalamazoo decided to evaluate and replace all lead water services located near each scheduled road project. By incorporating the Lead Water Services Replacement Program with the City's and Kalamazoo County Road Commission's road construction projects, Kalamazoo minimized its replacement costs and inconvenienced residents only once with road closures.

The City hired Prein&Newhof to oversee the replacement of the lead pipe water services. P&N also helped with project bidding and data assessment. In 2017, approximately 350 services were replaced by two contractors: Caporossi Construction, LLC and SWT



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## WATER, continued

Excavating, Inc. The City's own crews replaced an additional 100 water services to meet its goal for this year.

The City of Kalamazoo distributed flyers to affected home owners explaining the construction process and post-installation instructions, such as how to flush their drinking water lines once the service lines were installed outside their homes. The flyer also encouraged home owners to evaluate their interior pipes, and if necessary, plan for needed replacements. Cooperation among all parties was overwhelmingly positive. Kalamazoo's proactive efforts to spread awareness and to address concerns with residents as they arose is certainly to credit.

The City estimates there are about 2,500 known lead services remaining, and roughly 7,000 water services of undetermined material. Identifying the material of these services is an ongoing process that requires excavation. Kalamazoo's existing 20+ year Capital Improvement Program is helping to fund its \$2 million Lead Water Services Replacement Program.

Do you have questions about lead service regulations? Contact **Barbara Marczak, PE** at 616-364-8491.

## Welcome Aboard: Four Professionals Join Our Team

**Mariah Agee** joined us in August, working as an Information Management and Administrative Assistant. Mariah graduated from Grand Valley State University with a bachelor's degree in writing and a minor in environmental studies.

**Jim LaVelle** joined us in November, as a Field Sampling Technician for our Laboratory. Jim is a Certified Operator/Manager of water systems and wastewater facilities.

**Phil Johnson, AAE** joined us in October, working part-time as a Senior Airport Consultant. Phil came to us following his recent retirement as the Gerald R. Ford International Airport Deputy Director.

**Paul Reinhold, PLA** joined us in November, as a Landscape Architect. Paul comes to us with 30 years of experience. He graduated from Purdue University with a bachelor's degree in landscape architecture.

### Prein&Newhof specializes in:

- Civil & Environmental Engineering
- Environmental Consulting
- Surveying
- Geographic Information Systems
- Laboratory Testing

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