

# AQUA ILLINOIS, INC.

## 2016-2017 NORTH VERMILION STREET WATER MAIN LINING



### Location

Danville, Illinois

### Timeline

2016 – 2017

### Contractor

Fer-Pal Infrastructure



Aqua Illinois, Inc. provides water and wastewater services to 225,000 users in the State of Illinois. The existing water main serving the residents and businesses along North Vermilion St. (IL Route 1) between Cedar Ave. and Thornhill Drive was in need of replacement with limited feasible options. Aqua chose to rehabilitate the existing water main in place by lining the existing water main instead of replacing it.

### Scope of Work:

- Lining over 6,000 feet of existing cast iron water main
- Installation & maintenance of temporary, above-ground, water mains to maintain service to customers
- Replacement of valves and fire hydrants throughout the lining project
- Service renewals and reconnections to all existing users

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### CONSTRUCTION PICTURES



#### The Challenges:

1. Minimizing public safety risks along one of the highest traffic areas in the City
2. Sequencing the work to limit service disruption; specifically, with the significant number of businesses, with highly variable hours of operation that require continuous water service
3. Minimizing access disruption to business and residences
4. Ensuring temporary water service was operational and required limited oversight
5. Maintaining adequate water pressure and volume to neighborhoods and large apartment complexes

#### Solutions provided by C2:

1. Provided construction observation services, continuous customer coordination, documentation, as-built development, and final GPS survey for GIS system updates on over 6,000 feet of water main lining
2. Coordinated with Aqua staff to ensure material inventory was being tracked accurately
3. Coordinated with contractors, design engineers, permitting agencies, and Aqua Illinois to ensure improvements were completed according to plan and within the contractual times of completion

**C2 Engineers provided all services within contractual obligations.**

**Reference:** Kyle McKay  
815.954.3350  
[kcmckay@aquamerica.com](mailto:kcmckay@aquamerica.com)