

Morton Grove-Niles Water Commission Water Transmission Main



PROJECT DESCRIPTION

Ciorba Group was part of a team of consultants providing preliminary, final design and construction engineering services to the Morton Grove-Niles Water Commission (MGNWC) for a new water supply pipeline from the City of Evanston to the Villages of Morton Grove and Niles.

Ciorba identified and recommended water transmission route options west of the Edens Expressway in the Villages, as well as evaluated, identified and recommended options for the design, finance and construction of water transmission lines, and other related water delivery and receiving infrastructure.

The detailed design phase included preparing plan and profile drawings and specifications for the 30-inch transmission main from Suffield Court, approximately 200 feet west of Gross Point Road in Skokie to the proposed Morton Grove – Niles Water Commission (MGNWC) Standpipe and Pump Station (approximately 15,400 linear feet of pipe). This segment includes redundant piping at the crossing of the Edens Expressway, redundant piping under the Metra railroad tracks, and coordinating connection to the MGNWC Standpipe and Pump Station. Significant coordination with and several permits from IDOT were also required for the crossings under the Edens Expressway, Oakton Street, and Dempster Street.

Roadway restoration options were coordinated with each participating Village and incorporated into the plan set accordingly. Restoration methods ranged from partial resurfacing to full

resurfacing, as well as partial reconstruction to full reconstruction. The portion of the project within the Village of Skokie limits also included green alley design.

Construction of the project has been divided into 9 separate contracts. Contracts 1 – 3 are for the water transmission main through Skokie, Niles, and Morton Grove. Contracts 4 – 9 are for pipe lining of existing water mains, installation of fiber optic lines, a standpipe, and a pump station. Ciorba Group had two roles on the project. First, serving as the Resident Engineer for Contract 3 which consists of installing the new water transmission line through Niles (approximately 15,000 feet of 20-inch and 16-inch water main), installation of the fiber optic communication line (50,000 feet) under Contract 9, plus the reconstruction of the street with 10-inch PCC pavement. Second, serving as Senior Resident Engineer to oversee the services provided by the Resident Engineers and Resident Project Representatives for Contracts 1, 2, and 4. These contracts include the new water transmission mains through Skokie and Niles and the lining of existing water mains. Significant coordination and permitting was required from IDOT due to the crossings under the Edens Expressway, Oakton Street, and Dempster Street.

Final documentation was completed and the project closed out per IDOT requirements.

LOCATION

Niles, IL
Morton Grove, IL

CLIENT

Village of Niles
Village of Morton Grove

CONTACT

Thomas Powers (Niles)
Village Engineer
847.588.7925

Chris Tomich (Morton Grove)
Village Engineer
847.470.5235 x3902

CONSTRUCTION COST

\$65 Million

PROJECT TEAM

Project Manager/Project Engineer/Design Support

Luke Mattson, PE

Water Resources Engineer

Jingyun Sun, PE, CFM

Roadway Engineers

Eric Spina, PE

Marie Higginson, PE

QA/QC Water Resources

Tony Wolff, PE, CFM

QA/QC Roadway / Construction Manager

Duane O’Laughlin, PE

Senior Resident Engineers

Jesse Singer, PE

Sharon Boda, PE

SCOPE OF SERVICE

- ▶ Preliminary Engineering
- ▶ Final Design
- ▶ Construction Observation

AWARDS

Outstanding Civil Engineering Achievement (\$35 to \$100 Million), American Society of Civil Engineers, Illinois Chapter

