Central Reservoir Improvements

LOCATION:
Oak Park, IL

CLIENT:
Village of Oak Park

CONSTRUCTION COST:
$1.3 Million

SCOPE OF SERVICES:
• Preliminary Engineering
• Design Engineering
• Construction Observation

The Village of Oak Park determined the need for the rehabilitation of their 5.0 MG potable water reservoir, a critical drinking water system component serving as the primary storage facility for the community. Ciorba was selected to carry out Phase I and Phase II engineering services for the inspection and engineering evaluation of the reservoir. This preliminary engineering involved the civil engineering inspection of the reservoir interior without interruption of service, requiring both float and dive inspections to determine the structural integrity of the 90-year old reservoir. Additional inspections were required on adjacent site retaining walls, maintenance yard facilities, pump station process piping, and SCADA components.

The Phase I work culminated with a project scoping memo that informed the final design scope for improvements. This Phase II design work included pump station piping improvements to address priming issues, reconstruction and rehabilitation of 4 site retaining walls, maintenance yard spoils pit and pavement reconstruction, new water level monitoring system, earth work and coating application of exterior roof slab of reservoir, select interior reservoir rehabilitation including roof patching and inlet pipe coating. Design coordination was required to accommodate the Village of Oak Park Park District project that included the reconstruction of an athletic field and community park over top of the reservoir. Ciorba Group prepared final plans, specification, and cost estimates for the project and assisted in bidding and recommendation.

Ciorba Group was selected for Phase III construction observation and administration. This work included modifying the site excavation balance approach; Coordination with the Cook County Forest Preserve for temporary stockpiling; Design, bid, and construction administration of a second restoration construction contract; Construction engineering of found conditions once the site was excavated and the reservoir dewatered; Full time construction observation; Progress reporting; Pay applications; and Project Closeout.

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