

**Client**  
City of Boca Raton

**Scope of Services**  
Preliminary and Final Design,  
Permitting, Bidding Services,  
and Construction  
Administration.

**Contact**  
Mr. Chris Helfrich  
Director of Utility Services  
City of Boca Raton  
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**Start Date**  
02/2012

**Completion Date**  
09/2014

**Construction Cost**  
\$277,000

**Key MBC Staff**  
Frank A. Brinson, P.E.  
Eelhard Meneses, P.E.

**Key Features**  
Project included rehabilitation  
and repair of the two City's  
steel elevated storage tanks  
and associated piping and  
related systems.

## Glades Road Rehabilitation of Steel Elevated Storage Tank Design, Bidding Services, and Construction Administration Boca Raton, Florida



### Background

The City of Boca Raton owns and operates two elevated steel tanks used to store finished potable water. The tanks are located at the Glades Road Water Treatment Plant. Both of the tanks were inspected by Tank Engineering and Management Consultants, Inc. (TEMC) in 2010, and recommendations were made for various repairs and rehabilitation work. The City contracted with MBC to provide engineering services to assist the City in preparing a set of contract documents, suitable for competitive bidding by qualified tank rehabilitation firms. The scope included rehabilitation and repair of the two on-site storage tanks, and MBC's assistance during the bidding period. The contract documents were based on the American Water Works Association (AWWA) Standard D100 and D102 (latest edition) for Welded Carbon Steel Tanks for Water Storage.

## The Project

The scope of the project included the following:

- Review of record drawings of the tanks and associated piping and related systems.
- Preparation of construction drawings of the proposed rehabilitation and repair.
- Preparation of technical specifications for the rehabilitation and repair.
- Determination of permits needed to proceed with the rehabilitation and repair of the tanks.
- Correspondence with the Palm Beach County Health Department regarding the work to be performed.
- Preparation of written addendums during bid phase.
- Assist the City in obtaining competitive bids from contractors.
- Construction Administration.

The contract for construction of the project was awarded to Utility Services with a Notice to Proceed dated November 6<sup>th</sup>, 2013. MBC is to provide contract administration services during the construction phase. A deductive change order was issued to reconcile the contract for unused allowance funds lowering the original estimated cost from \$277,000 to \$188,275.