



**Craig A. Smith & Associates, Inc.**

Engineers • Surveyors • Subsurface Utility Engineering • 3D Subsurface Imaging • Utility Coordination

# INDIAN TRAIL IMPROVEMENT DISTRICT PHASE I WATERMAIN EXTENSION

## Project Entity:

Indian Trail Improvement District  
13476 61<sup>st</sup> Street North  
West Palm Beach, FL 33412

## Contact:

Terry Narrow  
Public Works Superintendent  
(561) 793-0874  
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CAS Project No.: 03-1121-115A

CAS Profile No.: 31

## Project Description:

The Phase I Water Main Extension Project for Indian Trail Improvement District consisted of the installation of approximately 47,500 linear feet of 12-inch DIP water main to service the new Osceola Middle School. The project initiated at an existing water main tie-in at State Road 7, ran along the north side of Canal M and terminated at 61<sup>st</sup> Street North. Work also included connection to several existing water main, the installation of a 12-inch mag meter and vault, and a jack-and-bore under Royal Palm Beach Boulevard. Total design and construction management costs for the project was \$270,800. The total construction cost was \$1,775,000. The project began in April 2003 and was completed in August 2004 without liquidated damages.

## Responsibilities:

Route survey, topographic/boundary survey, utility locates, preparation of engineering design and construction plans, cost estimates, contract documents, bidding, testing, construction management and construction observation, and certification through project close-out.

## Key Personnel:

Gene R. Schriener, P.E. – President; Robert D. Keener, P.S.M. – Vice President of Survey; James Driscoll – Director of SUE; Greg Giarratana – Senior Supervising Engineer; William Tanto – Senior Field Representative

