



# NICHOLS FLOOD DAMAGE REDUCTION PROJECT



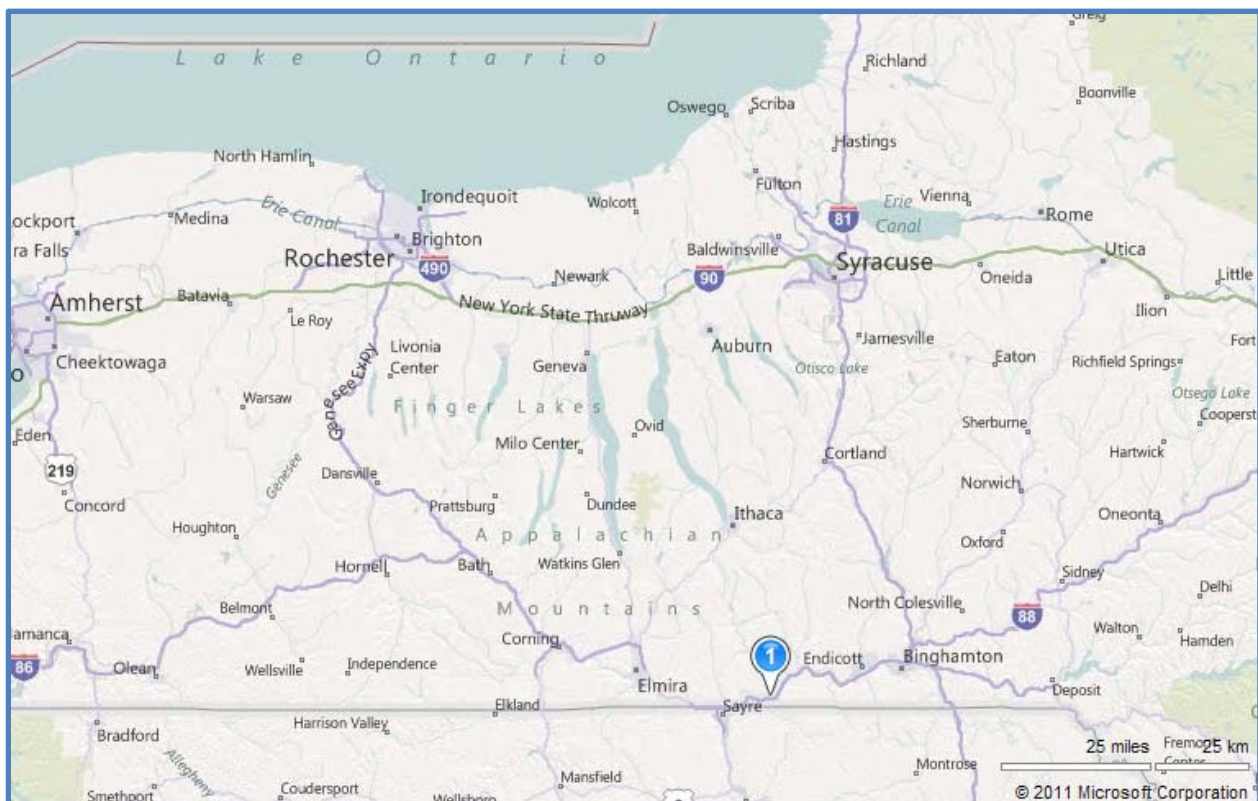
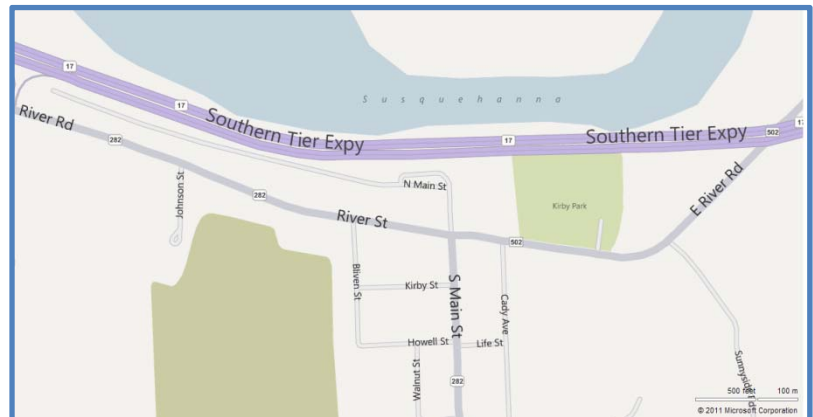
*Department of  
Environmental Conservation*

*Operated and Maintained by: The Village of Nichols*

**Region 7 Counties:** Broome,  
Cayuga, Chenango, Cortland,  
Madison, Onondaga, Oswego,  
Tioga, Tompkins

## PROJECT LOCATION

The Village of Nichols, Tioga County, New York, is located on the Susquehanna River, about 16 miles upstream from its confluence with the Chemung River.



## **PROJECT DESCRIPTION**

The project consists of the following work:

- The construction of approximately 9,700 feet of levee, commencing in the Town of Nichols at Main Street (State Route 282) about 2,000 feet south of River Street (State Route 282), running easterly to Wappasening Creek, then north along the west side of Wappasening Creek to the Susquehanna River.
- At the Susquehanna River the protection turns west and runs along the south side of the river for about 3,900 feet, where a tie-out levee runs south from the river for about 1,900 feet. The levee section along the Susquehanna River was designed and constructed as part of the New York State Route 17 Southern Tier Expressway. The expressway was constructed with an impervious core that ties into the eastern and western portions of levee, which enables it to function as part of the flood protection system, along with its primary function as a highway.
- Also included in the project are diversion dikes, seepage berms, and appurtenant drainage structures.

More complete descriptions of these features are presented in subsequent pages of this report.

## **AUTHORIZATION**

The Nichols, New York, flood-protection project was constructed under provisions of the Flood Control Act of July 3<sup>rd</sup>, 1958 (Public Law 85-500) and is described in House Document 394, 84<sup>th</sup> Congress, second session.

## **PROTECTION PROVIDED**

- The project will protect the community against flows in the Susquehanna River of 145,000 c.f.s. This design flood is 14 percent greater than the unmodified maximum flood of record occurring in March 1936 and 121 percent of the maximum flood under existing conditions (East Sidney and Whitney Point Reservoirs in operation). The design flood of 145,000 c.f.s. is equivalent to 75 percent of the standard project flood on the Susquehanna River at Nichols.
- The design flood of the improved channel along Wappasening Creek is 32,000 c.f.s., which is approximately equal to the standard project flood.

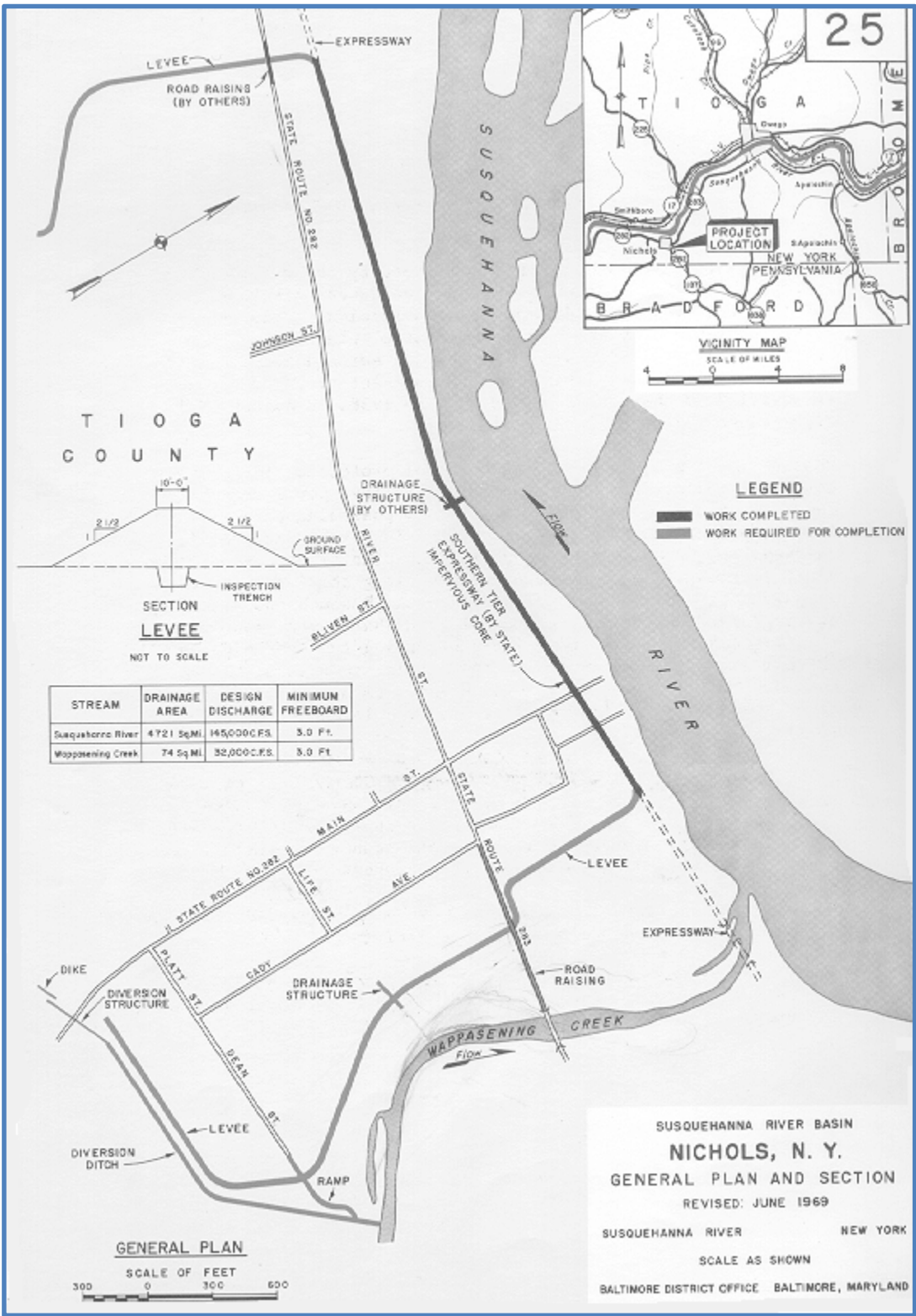
## **CONSTRUCTION**

The Nichols flood-protection project was designed and constructed under the direction of the U.S. Army Engineer District, Baltimore, Maryland. Surveys and monumentation were established by Kenneth C. Hawk, Consulting Engineer, Binghamton, New York. Construction began on July 23<sup>rd</sup>, 1970 by the Devault Contracting co., Inc., Kimberton, PA., and the project was accepted by the New York State Department of Environmental Conservation as of October 15<sup>th</sup>, 1971.

The project was damaged during tropical storm Agnes in June of 1972. A project was undertaken to re-channelize a portion of Wappasening Creek as the original project was being repaired. As in the case of the original project, the re-channelization was designed and constructed under the direction of the U.S. Army Engineer District, Baltimore, MD.

Construction began on September 26<sup>th</sup>, 1973 by the Triple Cities Construction Co., Binghamton, New York, and the modified repair project was accepted by the New York State Department of Environmental Conservation as of January 9<sup>th</sup>, 1973.

NICHOLS – GENERAL PLAN





NICHOLS – BIRD’S EYE VIEW



NICHOLS – GENERAL PLAN AND AERIAL MAP OVERLAY

