



HOLLAND PATENT FLOOD DAMAGE REDUCTION PROJECT



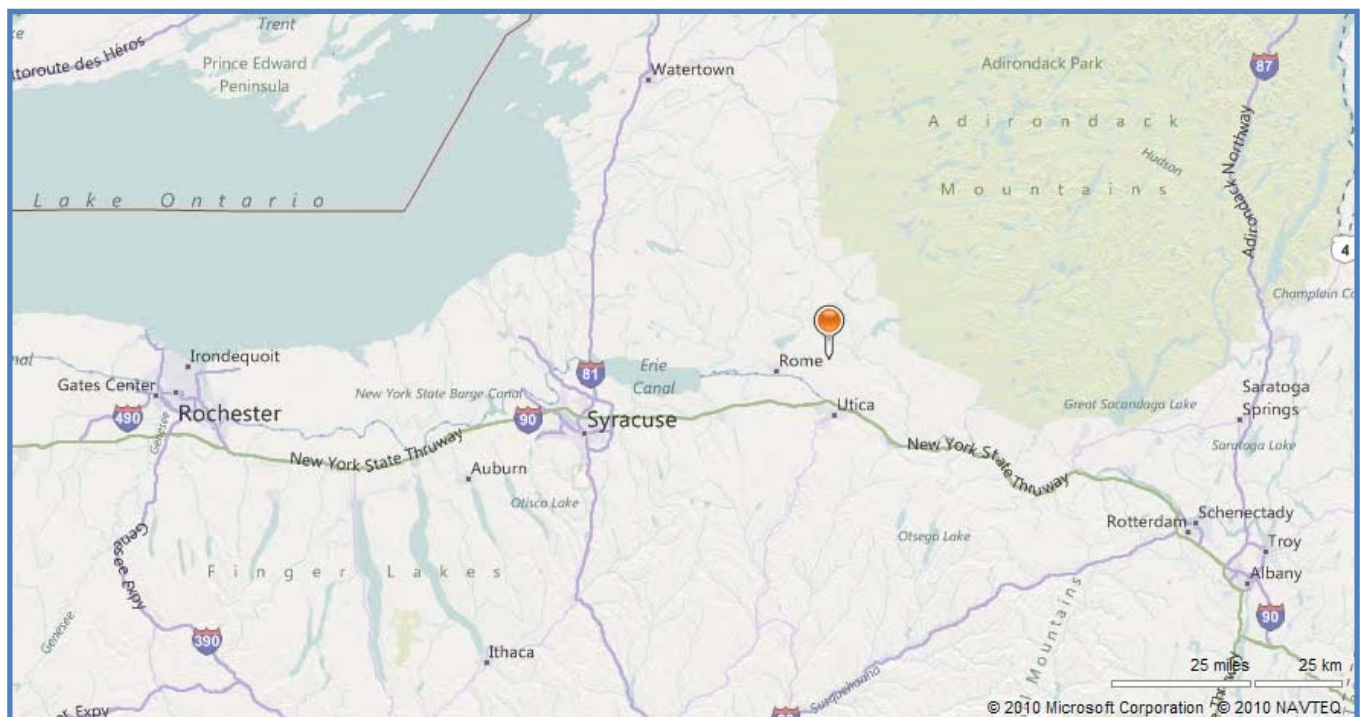
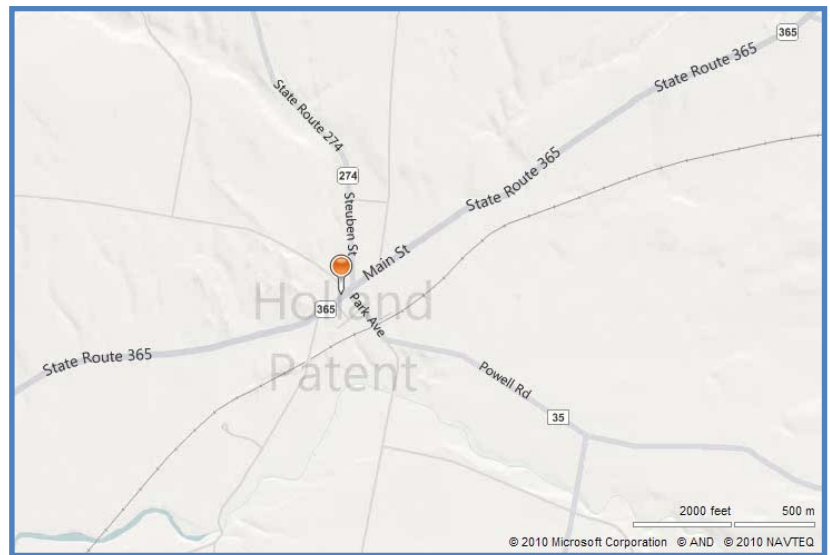
*Department of
Environmental Conservation*

Operated and Maintained by: The Village of Holland Patent

Region 6 Counties: Herkimer,
Jefferson, Lewis, **Oneida**, St.
Lawrence

PROJECT LOCATION

The project area is located along Thompson and Willow Creeks, tributaries of Ninemile Creek, in the Village of Holland Patent, Oneida County, New York .



PROJECT DESCRIPTION

The flood protection works at Holland Patent consist of the following:

- 750 feet of levee to create a ponding area for protection primarily to the Holland Patent Central School.
- 601 feet of existing 48 inch diameter concrete culvert.
- 100 feet of existing 36 inch x 60 inch culvert paralleled by 100 feet of 48 inch corrugated metal pipe.
- 1 diversion weir.
- 670 feet of diversion channel.
- 230 feet of 72 inch diversion reinforced concrete pipe (RCP).
- 1 intake chamber.
- 500 feet of drainage ditch.

The table of hydrologic and hydraulic pertinent data summarized the essential data pertaining to the project area.

AUTHORIZATION

The Flood Protection Works in the Ninemile Creek Basin at Holland Patent, New York was authorized by Congress in the Flood Control Act of 1948, section 205, as amended, and was approved on July 12th, 1965.

PROTECTION PROVIDED

The improvement works are designed to protect the Village of Holland Patent against a storm with an exceedence frequency of one percent, previously called the 100 year storm. This design flood is approximately 31 percent of the Standard Project Flood. A freeboard of 3 feet was allowed for in the design of the diversion channel.

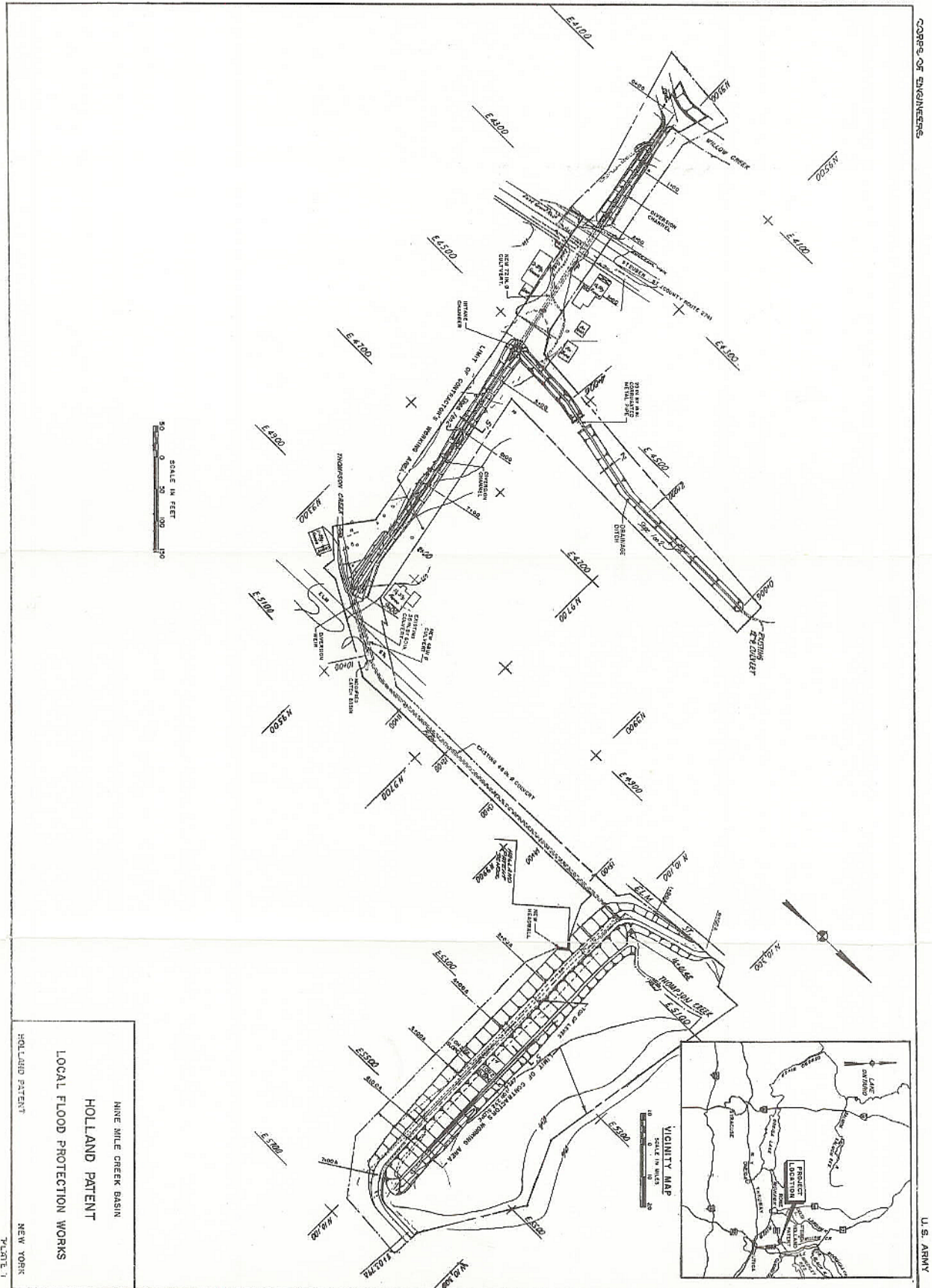
CONSTRUCTION

The project was advertised on November 23rd, 1973 and bids were opened on January 10th, 1974. Contract No. DACW-51-74-C-0025, dated February 26th, 1974 was awarded to Hardtop Pavers Inc., 11 Mill Street, New York Mills, NY 13417. Construction work was initiated on May 1st, 1974 and was completed on November 18th, 1974.

Holland Patent Flood Damage Reduction Project

Holland Patent, New York Local Flood Protection Works	
<u>Hydrologic and Hydraulic Pertinent Data</u>	
<u>Drainage Area (Sq. Mi.)</u>	
At mouth of Thompson Creek	0.65
At mouth of Willow Creek	3.55
<u>Stream Characteristics - Thompson Creek</u>	
Length (miles)	1.8
Stream slope (ft./mi)	200
<u>Willow Creek</u>	
Length (miles)	4
Stream slope (ft./mi)	160
<u>Estimated Largest Flood (mouth of Thompson Creek)</u>	
Date:	Oct-45
Discharge (c.f.s.)	121
Standard Project Flood (c.f.s.)	820
Design Flood (c.f.s.)	250
<u>Improvement</u>	
<u>Channels</u>	
<u>Diversion Channel (Thompson Creek to Intake Chamber</u>	
Length (feet)	462
Slope (percent)	1.5
Bottom Width (feet)	3
Side slopes	2 on 1
<u>Exit Channel (Steuben Street to Willow Creek)</u>	
Length (feet)	210
Average height (feet)	7
Top Width (feet)	5
Side slopes	2 on 1
<u>Levee</u>	
Length (feet)	750
Average height (feet)	5
Top Width (feet)	16
Side slopes	2 1/2 on 1
<u>Drainage Pipes (Types and Length (feet))</u>	
72 inch reinforced concrete pipe	230
25 inch x 16 inch corrugated metal pipe	20
Existing 48 inch r.c.p.	601
New 48 inch c.m.p.	100
Existing 36 inch x 60 inch r.c.p.	100
<u>Miscellaneous Drainage Structures</u>	
1 intake chamber	
1 diversion weir	
1 modified catch basin	

HOLLAND PATENT - GENERAL PLAN



HOLLAND PATENT – BIRD’S EYE VIEW



HOLLAND PATENT PROJECT MAP

