

#19-0001

Town of Sterling Preliminary Engineering Report

for

Proposed Water District #2

in the

Town of Sterling Cayuga County, New York

July 2019

Prepared by:



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1. PROJECT PLANNING

The Town of Sterling has retained the services of Capital Consultants Architecture and Engineering, Inc. (C2AE) to evaluate the potential of developing a public water system to serve the project area identified as Water District #2. This area was considered as a result of interest expressed by the property owners to the Town Board in a recent questionnaire. This area has also been targeted to provide the best funding opportunity for the least amount of cost.

A. Location

This area includes portions along State Route 104A, School Craft Road, Laxton Road, King Road, Maroney Road, MacNiel Road, McIntyre Road and other local side streets. See map in Appendix A.

The Town of Sterling is located in the northern section of Cayuga County and borders Lake Ontario to the north, Oswego County to the east and Wayne County to the west.

All of the residents in the planning area primarily rely on private residential wells to meet their domestic water needs. Having experienced problems with their own wells and knowing of problems with many area wells, the Town Board looked into the potential for providing affordable municipal water to areas of the Town in need.

B. Environmental Resources Present

Federal Wetlands – A preliminary review of records indicate that the project area is adjacent to federal wetlands. Proposed piping would be installed within the road shoulder and right of way; therefore any impact can be mitigated. Stream crossings will be constructed using trenchless methods. All Federal permits including Army Corps of Engineers would be secured, if required, prior to any construction. See attached Federal Wetland Map in Appendix D.

New York State Wetlands - A preliminary review of records indicate that the project area is adjacent to New York State wetlands. Proposed piping would be installed within the road shoulder and right of way; therefore any impact can be mitigated. Stream crossings will be constructed using trenchless methods, thereby mitigating any wetland or stream disturbance. All State permits, including New York State DEC permits, would be secured prior to any construction. See attached New York State Wetland Map in Appendix D.

Agricultural Districts - A preliminary review of records indicate that the project area is adjacent to Ag District parcels. The Town understands that this project could impact these parcels and will make every effort to minimize any impact to those parcels. For example, all the proposed piping will be installed within the road right of way and should not disturb or impact any agricultural parcels. The construction will comply with the guidelines entitled "Guidelines/Special Permit Conditions for Water/Sewer Transmission Mains Located Partially or Wholly in an Agricultural District". See attached Ag District Map in Appendix E.

Flood Insurance Rate Maps - A preliminary review of records indicate that the project area is not in a flood hazard area except at a creek or drainage crossing. See attached flood maps in Appendix F.

Archaeological: The New York State Office of Parks, Recreation and Historical Preservation (SHPO) has reviewed the project area and has determined that no historic properties will be affected by this project.

C. Population Trends

The population of the Town of Sterling, based on the 2010 Census, is 3,116. In 2000 it was 3,432. The 1990 Census listed a population of 3,210. Growth in the Town is minor at best.

In the project area, very little growth is anticipated. Like most towns in Cayuga County, growth is dependent on employment, and most recent employment is

new business outside of the Town.

The project area presently contains 120 equivalent dwelling units (EDU's) of which 26 are vacant parcels, which are considered 0.5 EDU's each.

D. Community Engagement

Prior to beginning the process of developing a public water system in the Town of Sterling, a questionnaire was sent out to property owners that were not on public water. This was driven by the written and verbal requests received by the Town to pursue future public water systems. As a result of the surveys received by the town, the proposed Water District #2 project area has been determined to be a viable option. Approximately 56% of the property owners in this area responded. Of the respondents, approximately 71% were interested in pursuing a public water system.

2. EXISTING FACILITIES

A. Community Engagement

Presently, the Town of Sterling has one (2) existing water districts (Water District #1 and Water District #3). District #1 is located in the northern part of town near the Oswego County border. Water is currently provided to that District by the Onondaga County Water Authority (OCWA). Water District #3 is located throughout the “downtown” portion of the Town and is currently under construction. Water is provided by the Village of Fair Haven for this District.

Due to the location of the proposed Water District #2, it is proposed that water be provided from the Village of Fair Haven for this District.

B. History

Within the Town of Sterling, many documented well water problems exist which has stimulated the pursuit of public water service. Over the past several years, federal and state funding became available and the Town has started developing new water districts.

C. Condition of Existing Facilities

The residents in the proposed project area presently obtain their water supply from groundwater sources. Many use dug wells, which are shallow and tend to be subjected to surface water infiltration. Residents have complained about low flow periods and poor water quality issues.

D. Financial Status of Existing Facilities

The proposed Water District #2 has no existing financial obligation.

E. Water Audits – not applicable.

3. NEED FOR PROJECT

A. Health, Sanitation and Security

As part of our questionnaire, numerous respondents stated the water obtained from their wells is of poor taste/quality or that they have had contaminated wells in the past. Several stated they have had issues with their wells running dry during summer months. A number of respondents indicated they have been required to purchase bottled or bulk water due to these issues.

There are also many dug wells found in the project area. Dug wells are no longer appropriate unless designed and operated as required by NYSDOH with proper treatment (NYSDOH Fact Sheet #5). See Appendix H.

B. Aging Infrastructure

Not applicable – new water system.

C. Reasonable Growth

By designing this project using Department of Health standards, it will support reasonable future growth.

4. ALTERNATIVES CONSIDERED

A. The proposed water district is intended to provide an acceptable water supply to a new area of the Town. Three alternatives were considered for the proposed project area. A summary of these alternatives are discussed below:

1. Purchase Water From the Village of Fair Haven:

This alternative involves installation of a municipal water system in the areas shown on the General Plan included in Appendix A. This area includes, but is not limited to: the State Route 104A corridor, parts of School Craft Road, Laxton Road, King Road, Maroney Road, MacNiel Road, McIntyre Road and other local side streets. The proposed project includes a total of 94 EDU's which are currently developed, 52 vacant parcels (0.5 EDU's each), for a total of 120 EDU's.

Connection would be made to the existing Water District #3 public water supply along State Route 104A. Water mains would be installed along the State Route 104A corridor and associated side streets to provide water service to the required properties. Shutoffs and meter pits would be installed for each service at each property line at locations agreed to by each property owner. A new water tank, well, and pumping system would be required for this alternative.

This alternative would have little impact on the environment due to the type of work. No land purchase would be required and disturbance would be in the road rights-of-way. Construction would be straight forward in concept with the contractor dealing with glacial till and cobble rich subsoils in many areas.

Operation and maintenance (O&M) costs would be minimal for the Town of Sterling for this alternative. The Town would enter into an inter-municipal Agreement (IMA) with the Village of Fair Haven to operate and maintain the distribution system. The Town of Sterling would own the new well and associated pumps, but the Village of Fair Haven would operate and maintain via the IMA. The Town would own and maintain the new tank. The Town intends to include a charge of \$50/EDU/year to help pay for O&M required to be performed by the Town.

The projected cost for this alternative is as follows:

CAPITAL - \$5,331,000

O&M costs including water usage - \$18,960/year

Based on preliminary calculations, the estimated O&M fees for developed properties will be \$252/EDU/year. Please note that a full breakdown of the capital and user costs for this alternative is included as Appendix G.

2. Purchase Water from the Onondaga County Water Authority (OCWA):

This alternative would include connection to OCWA's existing water main on State Route 104A at the Cayuga/Oswego County line. A booster pump station would be required at this location. A new water storage tank would also still be required to serve the project area. The distribution system would be the same with the exception of an additional +/- 4,000 ft of water main required to make the connection at the County line on 104A.

The projected cost for this alternative would be:

CAPITAL - \$6,100,000

O&M costs including water usage - \$36,660/year

Both capital and O&M costs would be greater than Alternative No. 1. OCWA's O&M rates for water usage are higher than that of the Village of the Fair Haven. In addition, OCWA requires the use of DIP for systems they intend to operate and maintain. This results in an additional approximate \$10/LF material cost over PVC.

3. Install a Water Treatment Plant System:

This alternative would include the installation of a water treatment plant at or near Sterling Creek. The Town would have to purchase land for the plant, install a new intake pipe, build the water treatment plant and install an approximate 5,000' transmission main to the distribution system.

The projected costs for this alternative would be as follows:

- Distribution System	\$3,185,600
- Water Storage Tank	\$800,000
- Land Purchase	\$50,000
- Water Treatment Plant	\$1,000,000
- Transmission Main – 5,000 feet	<u>\$500,000</u>
	\$5,536,000 (rounded)
Engineering, Legal & Administrative	<u>\$1,000,000</u>
TOTAL	\$6,536,000

O&M Costs:

- Electrical & Chemicals	\$12,000 per year
- Labor	\$32,000 per year
- Equipment & material	<u>\$6,000 per year</u>
	\$50,000 per year

This alternative results in a substantial capital cost to produce water for the proposed project area. It also results in a much higher O&M cost due to labor and materials required to operate a treatment plant.

5. SELECTION OF AN ALTERNATIVE

After a preliminary evaluation, it is apparent one reasonable alternative is available for this project. Alternative #2 and #3 results in a substantial capital cost to produce water for the proposed project area. Alternative #3 results in a much higher O&M cost due to labor and materials required to operate a treatment plant.

The table below provides a life cycle cost comparison of each alternative evaluated. Life cycle costs are based on using the real federal interest rate from Appendix C of OMB Circular A-94:

Sterling (T)	Alternative #1 - Water from Village of Fair Haven	Alternative #2 - Water from OCWA	Alternative #3 - New Water Treatment Plant
Capital Costs	\$5,331,000	\$6,100,000	\$6,536,000
Total Annual O&M	\$18,960	\$36,660	\$50,000
Life Cycle Analysis			
30 Yr OMB Circular Discount Rate	1.5%	1.5%	1.5%
Planning Period YR's	30	30	30
Present Worth Calculation	\$455,340	\$880,421	\$1,200,792
Salvage	\$0	\$0	\$0
30-year Life Cycle Analysis	\$5,786,340	\$6,980,421	\$7,736,792

Based on the evaluation of alternatives discussed in Chapter 4 and the information presented above, Alternative #1 – Purchase water from Fair Haven is the most economically feasible and viable option and is therefore recommended for the proposed project area.

Several different tank alternatives were considered for this project. The table below provides a life cycle cost analysis of the various tank alternatives:

Sterling (T)	Glass-Lined Standpipe Tank	Glass-Lined Composite Elevated Tank (CET)	Multi-Column Elevated Tank (LEG)	Pedesphere Elevated Tank (PED)
Capital Costs	\$800,000	\$1,380,000	\$1,035,000	\$1,200,000
Total Annual O&M (Minor maintenance and inspections)	\$1,000	\$1,000	\$1,000	\$1,000
Life Cycle Analysis				
Use 30 Yr OMB Circular Discount Rate	1.5%	1.5%	1.5%	1.5%
Planning Period YR's	40	40	40	40
Present Worth Calculation	\$29,916	\$29,916	\$29,916	\$29,916
Salvage	\$0	\$0	\$0	\$0
*Paint tank at year 35	-	-	\$675,000	\$675,000
40-year Life Cycle Analysis	\$829,916	\$1,409,916	\$1,739,916	\$1,904,916

Based on the alternatives evaluated, a glass-lined standpipe tank is proposed for this project.

6. PROPOSED PROJECT (RECOMMENDED ALTERNATIVE)

As discussed in Chapters 4 and 5, it is recommended that the Town of Sterling proceed with Alternative No. 1 – Purchase water from Fair Haven.

The proposed project includes installation of approximately 51,000± linear feet of 8", 10", and 12" distribution water main. The project will consider using Ductile Iron pipe, PVC pipe or HDPE pipe. The material used will be based on the lowest bid price. Water mains will generally be installed 6-8 feet off of pavement or within road shoulders within the existing cleared road rights-of-way. All stream crossings will be performed by directional drilling. Disturbance would be kept to a minimum. All disturbed areas will be restored to an equal or better condition following installation. New fire hydrants and gate valves will be installed along the water main approximately 600 and 800 feet apart respectively, as required by Ten States Standards. A construction period of 9 months is anticipated for this project.

The projected average daily flow (ADF) for the project area is 15,980 gpd (11.1 gpm). This is based on a flow of 170 gpd per EDU. Peak daily flows of approximately 31,960 gpd (22.2 gpm) could be expected, as well as a peak hour flow of 63,920 gpd (44.4 gpm). Should the fifty-two (52) vacant parcels be developed, additional average daily flows of 8,840 gallons could be expected.

The Village of Fair Haven's current water source is groundwater drawn from two groundwater wells (Well #1 and Well #2). These wells are located within the Town of Sterling adjacent to the proposed new water district. Water is drawn from these wells and is chlorinated on-site prior to distribution.

Based on evaluation of flow data provided by the Village of Fair Haven, a peak daily flow of 264,200 gpd (183 gpm) is expected for use within the Village. This equates to an estimated peak hourly flow of 528,400 gpd (367 gpm). Adding the estimated current and future peak flows for Water District No. 3 (currently under construction), the total peak daily flow for the system is estimated to be 294,800 gpd (204 gpm) and the peak hourly flow is estimated to be 593,350 gpd (412 gpm).

Including the estimated flows for Water District #2, peak daily flows of 344,440 gpd (240 gpm) are expected. This equates to an estimated peak hourly flow of 688,880 (480 gpm).

The pumps for Well #1 and Well #2 have a maximum combined pumping capacity of approximately 835,200 gpd (580 gpm). The existing pumps do not have the required capacity to provide redundancy in the system should one pump/well fail. Therefore, a new well supply is required as part of this project. In addition, a new pumping system is required to supply water to the new proposed water storage tank. It is proposed this well/pump system will be installed at the Village's existing well site. A hydrogeologic study will be performed as part of design to verify optimal location and associated output for the proposed well. We will consider two ten (10) horse power pumps with radio telemetry control based on the water level in the tank. The pumps would operate in a lead and lag mode. A chlorine booster system will be installed to help maintain chlorine residuals in the distribution system.

The Village of Fair Haven is permitted a maximum withdrawal of 750 gpm by their NYSDEC water withdrawal permit. The Village is permitted to provide adequate flow to both the existing and proposed systems. The Town of Sterling will own the well and pumping system, however operation and maintenance will be the responsibility of the Village via an IMA.

The new well system will pump water to the proposed Sterling water tank to be located on School Craft Road. The Town of Sterling owns this site and it is one of the higher elevations in the project area (ground 406'). The proposed water storage tank will be approximately 112' high with a diameter of 26' as manufactured by Statewide Aquastore. The actual capacity will be approximately 415,000 gallons. The high water level (HWL) will be 524'.

The hydraulic model for the proposed project was established considering the entire Town of Sterling. We wanted to insure that what was being proposed as part of this project would be reasonably usable in the future if additional water projects are considered. Maintaining a static pressure of 35 psi and fire flows of 500+ gpm were the objectives.

With the HWL, pressures within the distribution system will range from 47 psi to 118 psi. The tank is sized to provide adequate fire flows to the proposed system. The projected available fire flow would range from 548 to 3,000 gpm. A tank mixing system may be required to assist with chlorine residuals and freezing concerns. A potential solar array system will be looked at as part of this project to offset future power costs at the Water Tank and Well Site. A copy of the hydraulic modeling map and associated data is included as Appendix B.

As discussed in Chapter 4, it is anticipated that an approximate water usage cost of \$252/year will be assessed to each EDU. The projected capital cost for the project is \$5,331,000.

The Village of Fair Haven, via an IMA, will obtain water service charges from each user. Fair Haven's charges will be based on water meter readings at each connection.

A list of short lived assets for the proposed water district is provided below:

Short Lived Assets	
Equipment	Estimated Replacement Cost at Year 20
Pumps (including motors)	\$50,000
Pump Controls	\$15,000
Telemetry	\$30,000
Water Level Sensors	\$5,000
TOTAL	\$100,000

As discussed previously a maintenance charge of \$50/EDU/yr will be charged and put into a reserve fund for repair/replacement of short lived assets.

7. CONCLUSIONS & RECOMMENDATIONS

With the continuation of federal funding for small, rural populations, it is apparent that expansion to select areas within the Town is possible to assure that residents have a safe and adequate water supply plus firefighting capabilities. It is also evident that due to the costs of such an undertaking, the residents in the Town of Sterling will require the available financial assistance to consider any of these planned improvements. Based on these considerations, C2AE would recommend that the Town of Sterling take the following steps when pursuing this project.

- Prepare and submit a Preliminary Application for Financial Assistance for the project from the U.S. Department of Agriculture Rural Development.
- The results of the findings documented in this report should be presented to the residents of the project area. It is the opinion of the board that it would be appropriate to await the outcome on potential funding prior to presenting the project to the residents. An area-wide survey (questionnaire) was conducted several years ago and it shows good support for an affordable water system.

The proposed improvements discussed in this report are directed towards providing an adequate water distribution system and supply in areas designated.

The project area includes parts of State Route 104A and associated side streets. See drawing in Appendix A.

- The distribution system will be designed to the latest engineering standards and to the standards of the reviewing agencies involved.
- The distribution system will be designed to meet the immediate needs of the Town of Sterling and will consider the possible needs of the future.

The Town will need to obtain a substantial grant to make the project affordable.

Potential Project Costs:

Total Project Cost Estimate	=	\$5,331,000
USDA RD Grant	=	\$0
USDA RD Loan	=	\$5,331,000 at 2-1/8% for 38 years
Estimated EDUs	=	120

Annual Debt Cost: $\$5,331,000 \times .03862 = \$205,884/\text{year}$

Cost per EDU = $\$205,884/120 = \$1,716/\text{year}$

Projected User Cost/EDU
(See Appendix G) = $\$252/\text{year}$

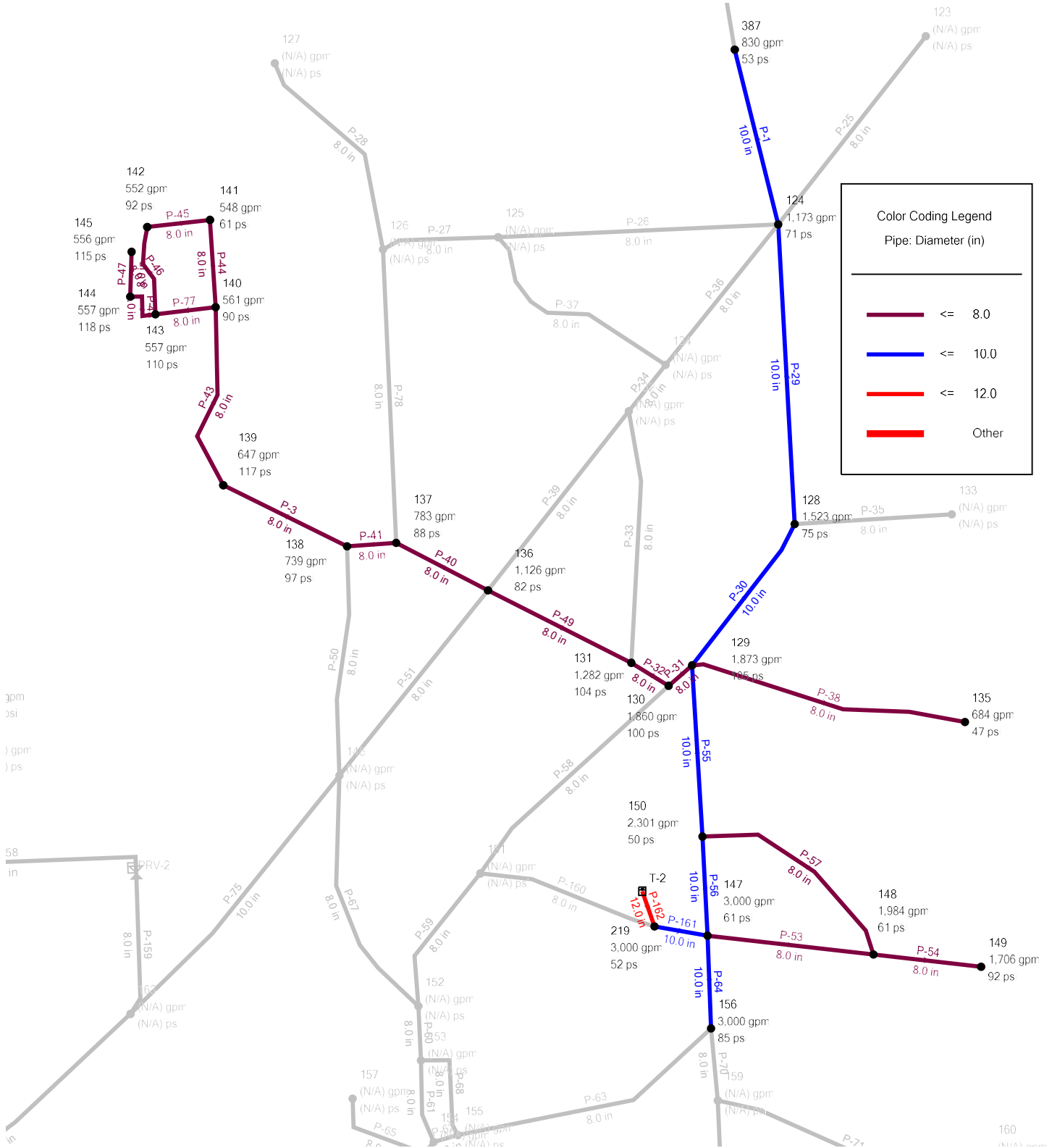
Projected Total Costs (without Grant) = **$\$1,968/\text{year}/\text{EDU}$**

Vacant Projected Total Costs (without Grant) = $\$883/\text{year}$
= $\$1716/2 + \$50/2$

Appendix A General Plan

Appendix B
Hydraulic Model Area Map

Scenario: Base - WD2



Scenario: Base - WD2
Current Time Step: 0.000 h
FlexTable: Junction Table

Label	Is Active?	Elevation (ft)	Pressure (psi)	Fire Flow (Available) (gpm)	Hydraulic Grade (ft)	Zone	Demand Collection
J-20	True	359.00	71	1,173	521.97	<None>	<Collection: 1 item>
J-24	True	349.00	75	1,523	521.97	<None>	<Collection: 1 item>
J-25	True	279.00	105	1,873	521.98	<None>	<Collection: 1 item>
J-26	True	290.00	100	1,860	521.97	<None>	<Collection: 1 item>
J-27	True	281.00	104	1,282	521.97	<None>	<Collection: 1 item>
J-31	True	413.00	47	684	521.97	<None>	<Collection: 1 item>
J-32	True	332.00	82	1,126	521.96	<None>	<Collection: 1 item>
J-33	True	318.00	88	783	521.96	<None>	<Collection: 1 item>
J-34	True	298.00	97	739	521.96	<None>	<Collection: 1 item>
J-35	True	251.00	117	647	521.95	<None>	<Collection: 1 item>
J-36	True	314.00	90	561	521.95	<None>	<Collection: 1 item>
J-37	True	382.00	61	548	521.95	<None>	<Collection: 1 item>
J-38	True	309.00	92	552	521.95	<None>	<Collection: 1 item>
J-39	True	267.00	110	557	521.95	<None>	<Collection: 1 item>
J-40	True	250.00	118	557	521.95	<None>	<Collection: 1 item>
J-41	True	255.00	115	556	521.95	<None>	<Collection: 0 items>
J-43	True	382.00	61	3,000	521.99	<None>	<Collection: 0 items>
J-44	True	382.00	61	1,984	521.99	<None>	<Collection: 1 item>
J-45	True	310.00	92	1,706	521.99	<None>	<Collection: 1 item>
J-46	True	406.00	50	2,301	521.99	<None>	<Collection: 1 item>
J-52	True	326.00	85	3,000	521.99	<None>	<Collection: 1 item>
J-115	True	401.00	52	3,000	522.00	<None>	<Collection: 0 items>
J-2	True	400.00	53	830	521.97	<None>	<Collection: 1 item>
J-1	False	254.00	(N/A)	(N/A)	(N/A)	Zone-1	<Collection: 1 item>
J-2	False	296.00	(N/A)	(N/A)	(N/A)	Zone-1	<Collection: 1 item>
J-3	False	313.00	(N/A)	(N/A)	(N/A)	Zone-1	<Collection: 1 item>
J-4	False	320.00	(N/A)	(N/A)	(N/A)	Zone-1	<Collection: 1 item>
J-5	False	352.00	(N/A)	(N/A)	(N/A)	Zone-1	<Collection: 1 item>
J-6	False	263.00	(N/A)	(N/A)	(N/A)	Zone-1	<Collection: 1 item>
J-7	False	269.00	(N/A)	(N/A)	(N/A)	Zone-1	<Collection: 1 item>
J-8	False	278.00	(N/A)	(N/A)	(N/A)	Zone-1	<Collection: 1 item>
J-9	False	275.00	(N/A)	(N/A)	(N/A)	Zone-1	<Collection: 1 item>
J-10	False	264.00	(N/A)	(N/A)	(N/A)	Zone-1	<Collection: 1 item>
J-11	False	276.00	(N/A)	(N/A)	(N/A)	Zone-1	<Collection: 1 item>
J-12	False	274.00	(N/A)	(N/A)	(N/A)	Zone-1	<Collection: 1 item>
J-13	False	268.00	(N/A)	(N/A)	(N/A)	Zone-1	<Collection: 1 item>
J-14	False	263.00	(N/A)	(N/A)	(N/A)	Zone-1	<Collection: 1 item>
J-15	False	256.00	(N/A)	(N/A)	(N/A)	Zone-1	<Collection: 1 item>
J-16	False	256.00	(N/A)	(N/A)	(N/A)	Zone-1	<Collection: 1 item>
J-17	False	283.00	(N/A)	(N/A)	(N/A)	Zone-1	<Collection: 1 item>
J-18	False	347.00	(N/A)	(N/A)	(N/A)	Zone-1	<Collection: 1 item>
J-19	False	364.00	(N/A)	(N/A)	(N/A)	<None>	<Collection: 1 item>
J-21	False	261.00	(N/A)	(N/A)	(N/A)	<None>	<Collection: 1 item>
J-22	False	269.00	(N/A)	(N/A)	(N/A)	<None>	<Collection: 1 item>
J-23	False	312.00	(N/A)	(N/A)	(N/A)	<None>	<Collection: 1 item>
J-28	False	328.00	(N/A)	(N/A)	(N/A)	<None>	<Collection: 1 item>
J-29	False	320.00	(N/A)	(N/A)	(N/A)	<None>	<Collection: 1 item>
J-30	False	273.00	(N/A)	(N/A)	(N/A)	<None>	<Collection: 1 item>
J-42	False	310.00	(N/A)	(N/A)	(N/A)	<None>	<Collection: 1 item>
J-47	False	338.00	(N/A)	(N/A)	(N/A)	<None>	<Collection: 1 item>
J-48	False	268.00	(N/A)	(N/A)	(N/A)	<None>	<Collection: 1 item>
J-49	False	294.00	(N/A)	(N/A)	(N/A)	<None>	<Collection: 1 item>
J-50	False	288.00	(N/A)	(N/A)	(N/A)	<None>	<Collection: 1 item>
J-51	False	315.00	(N/A)	(N/A)	(N/A)	<None>	<Collection: 1 item>
J-53	False	371.00	(N/A)	(N/A)	(N/A)	<None>	<Collection: 1 item>
J-54	False	361.00	(N/A)	(N/A)	(N/A)	<None>	<Collection: 1 item>
J-55	False	326.00	(N/A)	(N/A)	(N/A)	<None>	<Collection: 1 item>
J-56	False	294.00	(N/A)	(N/A)	(N/A)	<None>	<Collection: 1 item>
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J-58	False	315.00	(N/A)	(N/A)	(N/A)	<None>	<Collection: 1 item>
J-59	False	403.00	(N/A)	(N/A)	(N/A)	<None>	<Collection: 1 item>
J-60	False	354.00	(N/A)	(N/A)	(N/A)	<None>	<Collection: 1 item>

J-61	False	336.00	(N/A)	(N/A)	(N/A)	<None>	<Collection: 1 item>
J-62	False	366.00	(N/A)	(N/A)	(N/A)	<None>	<Collection: 1 item>
J-63	False	326.00	(N/A)	(N/A)	(N/A)	<None>	<Collection: 1 item>
J-64	False	331.00	(N/A)	(N/A)	(N/A)	<None>	<Collection: 1 item>
J-65	False	398.00	(N/A)	(N/A)	(N/A)	<None>	<Collection: 1 item>
J-66	False	426.00	(N/A)	(N/A)	(N/A)	<None>	<Collection: 1 item>
J-67	False	372.00	(N/A)	(N/A)	(N/A)	<None>	<Collection: 1 item>
J-68	False	440.00	(N/A)	(N/A)	(N/A)	<None>	<Collection: 1 item>
J-69	False	344.00	(N/A)	(N/A)	(N/A)	<None>	<Collection: 1 item>
J-70	False	375.00	(N/A)	(N/A)	(N/A)	<None>	<Collection: 1 item>
J-71	False	360.00	(N/A)	(N/A)	(N/A)	<None>	<Collection: 1 item>
J-72	False	368.00	(N/A)	(N/A)	(N/A)	<None>	<Collection: 1 item>
J-73	False	407.00	(N/A)	(N/A)	(N/A)	<None>	<Collection: 1 item>
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Appendix C

EDU List

S_B_L	Municipali	PRINT_KEY	LOCATION	OWNERS	PROP_CLASS	Regular EDU	Vacant EDU
10.00-1-43	Sterling	10.00-1-43	1715 Schoolcraft Rd	Bortel, Scott J.	210	1	0
7.00-2-41.4	Sterling	7.00-2-41.4	Maroney Rd	Sharkey, Glenn Jr; Sharkey, Cathy M	314	0	0.5
7.00-2-40.1	Sterling	7.00-2-40.1	15090 King Rd	Plumadore, Diane; Pierce, Edward	210	1	0
7.00-2-37.1	Sterling	7.00-2-37.1	15120 King Rd	Sterling Valley Homestead Inc,	210	1	0
7.00-2-26.12	Sterling	7.00-2-26.12	2010 State Rt 104 A	Marsh, Shauna	210	1	0
7.00-1-39	Sterling	7.00-1-39	2063 State Rt 104 A	Sterling, Town of	852	0	0
7.00-1-36.1	Sterling	7.00-1-36.1	1705 State Rt 104 A	Earle, Stephen R.	240	1	0
7.00-1-29	Sterling	7.00-1-29	1767 State Rt 104 A	Shortslef, Lorraine B.	210	1	0
4.00-1-39.2	Sterling	4.00-1-39.2	State Rt 104 A	Flack, Ronald E.	105	0	0
3.16-1-5.5	Sterling	3.16-1-5.5	Mc Intyre Rd	Cacchione, Joseph; Cacchione, Gale	311	0	0.5
3.12-1-1	Sterling	3.12-1-1	Off Mc Intyre Rd/Fire Lane 2	Van Strander, J Michael	311	0	0.5
10.00-1-53.13	Sterling	10.00-1-53.13	Schoolcraft Rd	Shortslef, Lorraine; Shortslef, Joseph D	322	0	0.5
10.00-1-51.2	Sterling	10.00-1-51.2	1837 Schoolcraft Rd	Kleinstuber, Richard J.	210	1	0
7.00-2-21.1	Sterling	7.00-2-21.1	State Rt 104 A	Mustico, Thomas M.; Mustico, Heather K	311	0	0.5
7.00-2-19.1	Sterling	7.00-2-19.1	1853 State Rt 104 A	Fox, Richard H.	270	1	0
7.00-2-16.2	Sterling	7.00-2-16.2	1823 State Rt 104 A	Kelly, Melody	210	1	0
7.00-2-6.1	Sterling	7.00-2-6.1	Mac Niel Rd	Slobe Farms,	105	0	0
7.00-1-16.13	Sterling	7.00-1-16.13	Mac Niel Rd	Shortslef, Marlana R.	311	0	0.5
10.00-1-52.2	Sterling	10.00-1-52.2	1877 Schoolcraft Rd	Lindsley, Ronald	210	1	0
4.00-1-37.31	Sterling	4.00-1-37.31	2115 State Rt 104 A	Trepasso, Venna J.; Trepasso, Mary	421	1	0
4.00-1-37.2	Sterling	4.00-1-37.2	2133 State Rt 104 A	Dudley, Mark F.; Guernsey, Debra M	210	1	0
4.00-1-33	Sterling	4.00-1-33	2151 State Rt 104 A	Kaufman, Melynda	312	0	0.5
4.00-1-32	Sterling	4.00-1-32	15571 Irwin Rd	Kaufman, Melynda	312	0	0.5
10.00-1-47.2	Sterling	10.00-1-47.2	1735 Laxton Rd	Grandazzo, Brandy	210	1	0
10.00-1-41.2	Sterling	10.00-1-41.2	1719 Schoolcraft Rd	Parry, Gregory J.; Parry, Linda S	210	1	0
7.00-2-20.112	Sterling	7.00-2-20.112	State Rt 104 A	Martin, Anthony; Martin, Carolyn M	105	0	0
7.00-2-16.1	Sterling	7.00-2-16.1	State Rt 104 A	Di Bello, John	314	0	0.5
3.16-1-16.21	Sterling	3.16-1-16.21	15491 Mc Intyre Rd	Horning, Douglas A.; Horning, Rebecca S	210	1	0
3.12-1-8	Sterling	3.12-1-8	Off Mc Intyre Rd (Lane 2)	Schoonmaker, William; Schoonmaker, Roseann	312	0	0.5
3.12-1-6.111	Sterling	3.12-1-6.111	15663 Firelane 2	Sylvester, William T.	210	1	0
7.00-1-27	Sterling	7.00-1-27	15037 King Rd	Fowler, Kevin	210	1	0
7.00-1-24	Sterling	7.00-1-24	15095 King Rd	Dinneen, Edward; Dinneen, Carol	210	1	0
7.00-1-6	Sterling	7.00-1-6	1388 Mac Neil Rd	Hinckley, Theodore; Hinckley, Noreen	210	1	0
7.00-2-13	Sterling	7.00-2-13	1663 Mac Niel Rd	Pritchard, Michael; Chillson, Wayne	210	1	0
7.00-2-6.2	Sterling	7.00-2-6.2	1505 Mac Niel Rd	Mc Kenzie, Michael	210	1	0
3.00-1-22.122	Sterling	3.00-1-22.122	15427 Mc Intyre Rd	Cummins, Dean D.	210	1	0
7.00-1-30.2	Sterling	7.00-1-30.2	1725 State Rt 104 A	Scott, Douglas; Scott, Janice	210	1	0
3.16-1-8.123	Sterling	3.16-1-8.123	15589 Firelane 1B	Knickerboker, Charles; Casselman, Tina	312	0	0.5
3.16-1-8.21	Sterling	3.16-1-8.21	15610 Stump Ln	Cacchione, Joseph; Cacchione, Gale	260	1	0

3.16-1-8.8	Sterling	3.16-1-8.8	15615 Firelane 1A	Fields, Carol; Fields, George	270	1	0
7.00-1-25	Sterling	7.00-1-25	15081 King Rd	Earle, Richard; Earle, Maryellen	210	1	0
7.00-1-23.1	Sterling	7.00-1-23.1	15119 King Rd	Reynolds, Kevin; Reynolds, Penny	210	1	0
7.00-1-20	Sterling	7.00-1-20	15099 Sterling Valley Rd	Sterling Valley Community, Church	620	1	0
3.12-1-9	Sterling	3.12-1-9	15631 FireLane 2	Pagliari Sabatini, Cristal; Pagliari Sabatini, Ann	311	0	0.5
3.12-1-5.1	Sterling	3.12-1-5.1	Off Mc Intyre Rd (Lane 2)	Catto Irrevocable Trust, William & Catherine	311	0	0.5
4.00-1-1.116	Sterling	4.00-1-1.116	Irwin Rd	Colocca, Donald R.; Colocca, Brigitte H	323	0	0.5
10.00-1-53.22	Sterling	10.00-1-53.22	1840 Schoolcraft Rd	Shortslef, Leigh E.; Shortslef, Patricia A	210	1	0
3.16-1-8.7	Sterling	3.16-1-8.7	15603 Firelane 1	Marble, Wendy	312	0	0.5
3.16-1-2.1	Sterling	3.16-1-2.1	15627 Firelane 2	Larabee, Donald B.; Larabee, Colleen M	260	1	0
3.12-1-5.3	Sterling	3.12-1-5.3	15653 Firelane 2A	Catto Irrevocable Trust, William & Catherine	260	1	0
7.00-2-51.21	Sterling	7.00-2-51.21	1980 State Rt 104 A	Shortslef, Denise A.; Katie Mae Revocable Trust,	270	1	0
7.00-2-44	Sterling	7.00-2-44	1741 Maroney Rd	Martin, Anthony; Martin, Carolyn M	240	1	0
7.00-2-41.3	Sterling	7.00-2-41.3	1752 Maroney Rd	Kellogg, Travis G.	210	1	0
7.00-2-35.1	Sterling	7.00-2-35.1	1681 Maroney Rd	Kyle, Duane; Kyle, Evelyn	210	1	0
7.00-2-26.22	Sterling	7.00-2-26.22	2013 State Rt 104 A	Sivy, James; Sivy, Rebecca	240	1	0
7.00-2-10.1	Sterling	7.00-2-10.1	1661 Mac Niel Rd	Tennant, Ean; Tennant, Vicky	210	1	0
7.00-1-21	Sterling	7.00-1-21	15100 Sterling Valley Rd	Chaffee Living Trust,; Chaffee, Faith C	210	1	0
10.00-1-51.31	Sterling	10.00-1-51.31	1797 Schoolcraft Rd	Karkruff, Paul I.; Shepherd, Catherine	270	1	0
7.00-1-14.12	Sterling	7.00-1-14.12	Mac Niel Rd	Shortslef, Arthur; Shortslef, Marjorie	322	0	0.5
10.00-1-21.1	Sterling	10.00-1-21.1	State Rt 104 A	Shortslef, Lorraine	311	0	0.5
10.00-1-45	Sterling	10.00-1-45	1714 Laxton Rd	Knopp, Dawn M.	210	1	0
10.00-1-44	Sterling	10.00-1-44	1638 State Rt 104 A	Arseneau, Lucy	312	0	0.5
7.00-2-1.2	Sterling	7.00-2-1.2	1381 Mac Neil Rd	Cooper, Paul B.	280	2	0
3.16-1-15.13	Sterling	3.16-1-15.13	15559 Firelane 1A	Fields, George E.; Fields, William J	270	1	0
3.16-1-8.112	Sterling	3.16-1-8.112	15590 Firelane 1	Mattie, Mike	311	0	0.5
3.16-1-8.3	Sterling	3.16-1-8.3	Off Mc Intyre Rd	Mattie, Michael; Mattie, Steven	311	0	0.5
7.00-2-39.1	Sterling	7.00-2-39.1	Maroney Rd	Kyle, Duane; Kyle, Evelyn	314	0	0.5
7.00-2-21.2	Sterling	7.00-2-21.2	State Rotue 104 A	Clawson, Laura M.; Clawson, Gregory Scott	311	0	0.5
2.00-1-3.141	Sterling	2.00-1-3.141	15775 Irwin Rd	Slobe Farms Real Estate, LLC,	312	0	0.5
4.00-1-39.11	Sterling	4.00-1-39.11	2086 State Rt 104 A	Trepasso, Venna; Trepasso, Mary	240	1	0
4.00-1-38.1	Sterling	4.00-1-38.1	2128 State Rt 104 A	Davis, William L.	152	0	0
7.00-1-38.1	Sterling	7.00-1-38.1	1693 State Rt 104 A	Hall, Faye; Hall, James	210	1	0
7.00-1-37	Sterling	7.00-1-37	1697 State Rt 104 A	Deming, Barbara C; Sitzer Living Trust, Barbara J	210	1	0
3.16-1-8.5	Sterling	3.16-1-8.5	15571 Firelane 1A	Mattie, Steven; Mattie, Michael	270	1	0
3.16-1-5.2	Sterling	3.16-1-5.2	15555 Mc Intyre Rd	Parmelee, Stewart A.; Parmelee, Kathie	270	1	0
3.00-1-25.1	Sterling	3.00-1-25.1	Mc Intyre Rd	Ontario Realty, Inc.,	311	0	0.5
7.00-1-26	Sterling	7.00-1-26	15065 King Rd	Plumadore, Diane	210	1	0
7.00-1-14.115	Sterling	7.00-1-14.115	Mac Niel Rd	Shortslef, Marjorie M.	314	0	0.5
7.00-1-14.2	Sterling	7.00-1-14.2	1432 Mac Niel Rd	Shortslef, Arthur; Shortslef, Marjorie	210	1	0

3.00-1-24	Sterling	3.00-1-24	15324 Mc Intyre Rd	Mc Intyre, Thomas; Mc Intyre, Donna	240	1	0
6.00-1-3.1	Sterling	6.00-1-3.1	15429 Mc Intyre Rd	Mc Intyre, Thomas; Mc Intyre, Donna	322	0	0.5
3.16-1-11.1	Sterling	3.16-1-11.1	15592 Firelane 1B	Oleyourryk, Timothy J.; Oleyourryk, Laurie A	260	1	0
3.16-1-9	Sterling	3.16-1-9	Off Mc Intyre Rd (Lane 2)	Omundsen, Constance M.	311	0	0.5
3.16-1-8.122	Sterling	3.16-1-8.122	15583 Firelane 1B	Williams, Kevin; Linde, Carolyn	270	1	0
3.12-1-2.1	Sterling	3.12-1-2.1	15670 Fire Lane 2A	Crawford, Scott; Reis, Keith	312	0	0.5
3.00-1-22.11	Sterling	3.00-1-22.11	Mc Intyre Rd	Derby, William H.	322	0	0.5
10.00-1-46	Sterling	10.00-1-46	1734 Laxton Rd	Cummins, Dean D.	210	1	0
7.00-2-52.1	Sterling	7.00-2-52.1	1711 Maroney Rd	Porter, Robert W.; Porter, Valerie L	210	1	0
7.00-2-11	Sterling	7.00-2-11	1659 Mac Niel Rd	Tennant, Ean; Tennant, Vicky A	210	1	0
7.00-1-17.1	Sterling	7.00-1-17.1	1600 Mac Niel Rd	Mayo, Ray; Mayo, Joyce	210	1	0
7.00-1-13.13	Sterling	7.00-1-13.13	14979 Sterling Valley Rd	Joyce, William G. Sr	250	1	0
4.00-1-37.5	Sterling	4.00-1-37.5	2053 State Rt 104 A	Baker, Robert; Baker, Lynda	240	1	0
7.00-2-41.121	Sterling	7.00-2-41.121	1742 Maroney Rd	Sharkey, Glenn Jr; Sharkey, Cathy	210	1	0
7.00-2-40.2	Sterling	7.00-2-40.2	15098 King Rd	Plumadore, Diane; Pierce, Edward	314	0	0.5
7.00-2-26.11	Sterling	7.00-2-26.11	2000 State Rt 104 A	Shortslef, Donna M.	210	1	0
7.00-2-21.3	Sterling	7.00-2-21.3	1945 State Rt 104 A	Mustico, J. Stephen; Mustico, Sandy H	240	1	0
7.00-2-14	Sterling	7.00-2-14	1665 Mac Niel Rd	Decker, Matthew	210	1	0
3.16-1-99	Sterling	3.16-1-99	Private Ln	Avery Living Trust,	311	0	0.5
3.16-1-13	Sterling	3.16-1-13	15576 Firelane 1	Mattie, Steven; Mattie, Michael	260	1	0
3.16-1-8.121	Sterling	3.16-1-8.121	15577 Firelane 1	Smith, Alice	314	0	0.5
3.16-1-8.6	Sterling	3.16-1-8.6	15578 Firelane 1	Stone, Levi E.	312	0	0.5
7.00-1-19	Sterling	7.00-1-19	1636 Mac Niel Rd	Ferriter, Patsy	210	1	0
7.00-1-14.114	Sterling	7.00-1-14.114	Old State Rd	Chaffee Living Trust,; Chaffee, James E	314	0	0.5
7.00-1-14.41	Sterling	7.00-1-14.41	Mac Niel Rd	Shortslef, Lynn; Shortslef, Darlene	322	0	0.5
7.00-1-4	Sterling	7.00-1-4	Sterling Center Rd	Ouellette, Dennis; Ouellette, June	314	0	0.5
3.16-1-5.11	Sterling	3.16-1-5.11	15547 Mc Intyre Rd	Parmelee, Nikolaus	270	1	0
3.16-1-5.4	Sterling	3.16-1-5.4	Mc Intyre Rd	Cacchione, Joseph; Cacchione, Gale	311	0	0.5
3.12-1-10	Sterling	3.12-1-10	15678 Firelane 2	Joyce, George; Joyce, Christine	210	1	0
3.12-1-7	Sterling	3.12-1-7	15647 Firelane 2	Schoonmaker, William; Schoonmaker, Roseann	210	1	0
3.12-1-5.2	Sterling	3.12-1-5.2	15649 Firelane 2	Catto Irrevocable Trust, William & Catherine	312	0	0.5
3.12-1-3.211	Sterling	3.12-1-3.211	15666 Firelane 2A	Sylvester, William T.	281	2	0
3.16-1-8.9	Sterling	3.16-1-8.9	Off Mc Intyre Rd Lane 2	Avery Living Trust,	314	0	0.5
3.16-1-6	Sterling	3.16-1-6	15601 Firelane 1	Malcott, Debora	210	1	0
3.16-1-1.1	Sterling	3.16-1-1.1	15640 Firelane 2	Schoonmaker, William; Schoonmaker, Roseann	312	0	0.5
3.12-1-6.211	Sterling	3.12-1-6.211	15644 Firelane 2	Kelly, Burt R.	312	0	0.5
3.00-1-22.121	Sterling	3.00-1-22.121	Mc Intyre Rd	Slobe Farms Real Estate, LLC,	323	0	0.5
3.00-1-22.2	Sterling	3.00-1-22.2	15439 Mc Intyre Rd	Holden, Edward H.; Holden, Wendy J	242	1	0
2.00-1-3.3	Sterling	2.00-1-3.3	Off Irwin Rd	Cayuga County Real Property R,	962	0	0
7.00-1-22	Sterling	7.00-1-22	1662 MacNeil Rd	Simmons, John; Duffy, Kimberly F	210	1	0

3.16-1-18	Sterling	3.16-1-18	15487 Mc Intyre Rd	NYS Office of Parks, Rec &, Historic	242	1	0
3.16-1-16.1	Sterling	3.16-1-16.1	Off Mc Intyre Rd	Horning, Douglas A.; Horning, Rebecca S	311	0	0.5
3.16-1-10	Sterling	3.16-1-10	15579 Firelane 1A	Omundsen, Constance L.	210	1	0
3.16-1-5.3	Sterling	3.16-1-5.3	15525 Mc Intyre Rd	Cacchione, Joseph; Cacchione, Gale	210	1	0
3.00-1-21	Sterling	3.00-1-21	15449 Mc Intyre Rd	Windstam, Sofia T.	210	1	0
10.00-1-52.3	Sterling	10.00-1-52.3	14853 Kent Rd	Van Vranken, Kevin	311	0	0.5
7.00-2-20.12	Sterling	7.00-2-20.12	1892 State Rt 104 A	Martin, Anthony; Martin, Carolyn M	220	2	0
7.00-2-7.1	Sterling	7.00-2-7.1	1545 Mac Niel Rd	Kyle, Phillip M.; Kyle, Eric P	210	1	0
10.00-1-52.1	Sterling	10.00-1-52.1	Schoolcraft Rd	Diak, Sam C.	312	0	0.5
7.00-1-16.12	Sterling	7.00-1-16.12	Mac Niel	Ferriter, Patsy A.; Ferriter, Michael W	311	0	0.5
10.00-1-42.1	Sterling	10.00-1-42.1	1760 Schoolcraft Rd	Stoltz, Gary	241	1	0
10.00-1-20	Sterling	10.00-1-20	1678 Schoolcraft Rd	Bremmer, Allen R.; Timm, Kathryn A	240	1	0
7.00-1-5	Sterling	7.00-1-5	15268 Center Rd	Nilsen, Robert E.	210	1	0
7.00-1-3	Sterling	7.00-1-3	15251 Center Rd	Ouellette, Dennis; Ouellette, June	210	1	0
4.00-1-31	Sterling	4.00-1-31	15565 Irwin Rd	Kaufman, Melynda	210	1	0
4.00-1-1.111	Sterling	4.00-1-1.111	Irwin Rd	Witmer, Lamar	322	0	0.5
4.00-1-1.4	Sterling	4.00-1-1.4	Irwin Rd	Cayuga County Real Property R,	322	0	0.5
3.16-1-7.1	Sterling	3.16-1-7.1	15593 Firelane 1	Champoux, Laurence	270	1	0
3.16-1-2.21	Sterling	3.16-1-2.21	15617 Firelane 2	Schoonmaker, Mary A.	210	1	0
3.00-1-23.121	Sterling	3.00-1-23.121	15430 Mc Intyre Rd	Ayni, Joseph	240	1	0
3.00-1-23.111	Sterling	3.00-1-23.111	Mc Intyre Rd	Ontario Realty, Inc.,	311	0	0.5
7.00-2-42.2	Sterling	7.00-2-42.2	1722 Laxton Rd	Pritchard, Brian L.	270	1	0
7.00-2-33	Sterling	7.00-2-33	1854 State Rt 104 A	Noel, Theodore; Noel, Wendy	210	1	0
7.00-2-15	Sterling	7.00-2-15	1807 State Rt 104 A	Morrisseau, Marcel; Morrisseau, Patti	210	1	0
7.00-1-1.1	Sterling	7.00-1-1.1	15247 Center Rd	Ouellette, Dennis; Ouellette, June	150	0	0
6.00-1-2.1	Sterling	6.00-1-2.1	15369 Mc Intyre Rd	Mc Intyre, Thomas; Mc Intyre, Donna	240	1	0
4.00-1-1.118	Sterling	4.00-1-1.118	Irwin Rd	Weaver, David; Weaver, Sharon Rose	311	0	0.5
3.16-1-19	Sterling	3.16-1-19	15479 Mc Intyre Rd	Thompson, Eric; Thompson, Darcy	312	0	0.5
3.16-1-12	Sterling	3.16-1-12	15575 Firelane 1	Stone, Todd; Stone, Kara	210	1	0
3.16-1-8.42	Sterling	3.16-1-8.42	15567 Firelane 1	Mc Intyre, Raymond	312	0	0.5
3.16-1-7.2	Sterling	3.16-1-7.2	15595 Firelane 1	Case, Kevin S.; Case, Colleen	270	1	0

Regular EDU	Vacant EDU
94	26

Total EDU	120
------------------	------------

Appendix D
Federal & State Wetland Maps

Appendix E
Ag District Map

Appendix F Floodplain Map

NOTES TO USERS

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NGS Information Services
NOAA, NIMS12
National Geodetic Survey
SSMC-3, #9202
1315 East-West Highway
Silver Spring, Maryland 20910-3182
(301) 713-3242

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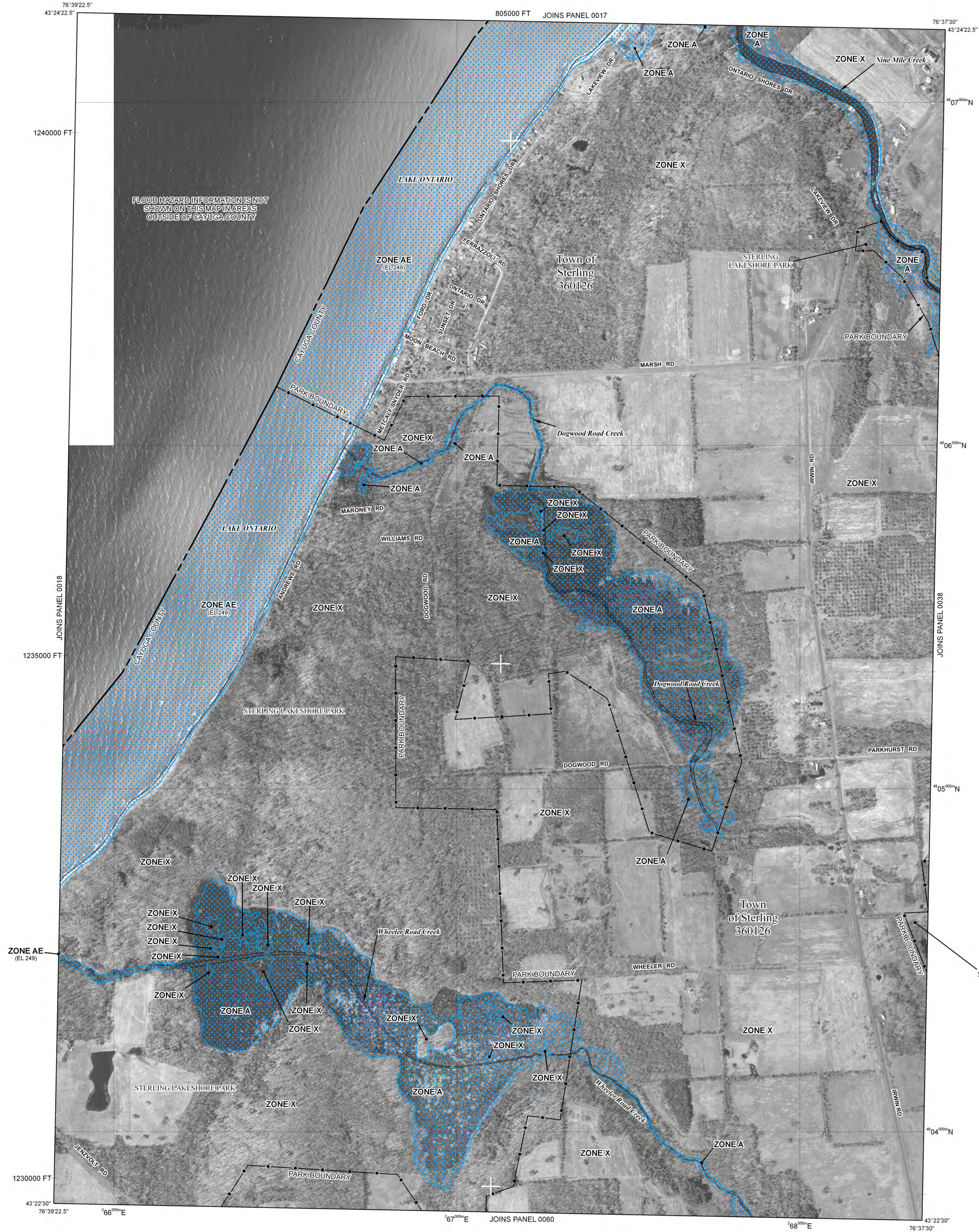
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LEGEND

SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

The 1% annual flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

- ZONE A** No Base Flood Elevations determined.
- ZONE AE** Base Flood Elevations determined.
- ZONE AH** Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.
- ZONE AO** Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.
- ZONE AR** Special Flood Hazard Area formerly protected from the 1% annual chance flood by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.
- ZONE A99** Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.
- ZONE V** Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.
- ZONE VE** Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.

FLOODWAY AREAS IN ZONE AE

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

OTHER FLOOD AREAS

- ZONE X** Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.

OTHER AREAS

- Areas determined to be outside the 0.2% annual chance floodplain.
- Areas in which flood hazards are undetermined, but possible.

COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS

OTHERWISE PROTECTED AREAS (OPAs)

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

- 1% annual chance floodplain boundary
- 0.2% annual chance floodplain boundary
- Floodway boundary
- Zone D boundary
- CBRS and OPA boundary
- Boundary dividing Special Flood Hazard Area Zones and boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths or flood velocities.
- Base Flood Elevation line and value; elevation in feet* (EL 987)
- Base Flood Elevation value where uniform within zone; elevation in feet*

* Referenced to the North American Vertical Datum of 1988

- A — A — Cross section line
- 3 — 3 — Limited detail cross section line
- 2 — 2 — Transsect line

87°07'45", 32°22'30"

76°00'N

600000 FT

DX5510 x

• M1.5 River Mile

MAP REPOSITORY
Refer to listing of Map Repositories on Map Index

EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP
AUGUST 2, 2007

EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL

For community map revision history prior to countywide mapping, refer to the Community Map History table located in the Flood Insurance Study report for this jurisdiction.

To determine if flood insurance is available in this community, contact your Insurance agent or call the National Flood Insurance Program at 1-800-638-6620.

MAP SCALE 1" = 500'

250 0 500 1000 FEET
150 0 150 300 METERS

NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0019E

FIRM
FLOOD INSURANCE RATE MAP
for CAYUGA COUNTY, NEW YORK
ALL JURISDICTIONS

CONTAINS:
COMMUNITY **NUMBER**
STERLING, TOWN OF **360126**

PANEL 19 OF 635
MAP SUFFIX: E
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

Notice to User: The Map Number shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject community.

MAP NUMBER
36011C0019E

EFFECTIVE DATE
AUGUST 2, 2007

Federal Emergency Management Agency

NOTES TO USERS

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NGS Information Services
NOAA, NIMS12
National Geodetic Survey
SSMC-3, #9202
1315 East-West Highway
Silver Spring, Maryland 20910-3182
(301) 713-3242

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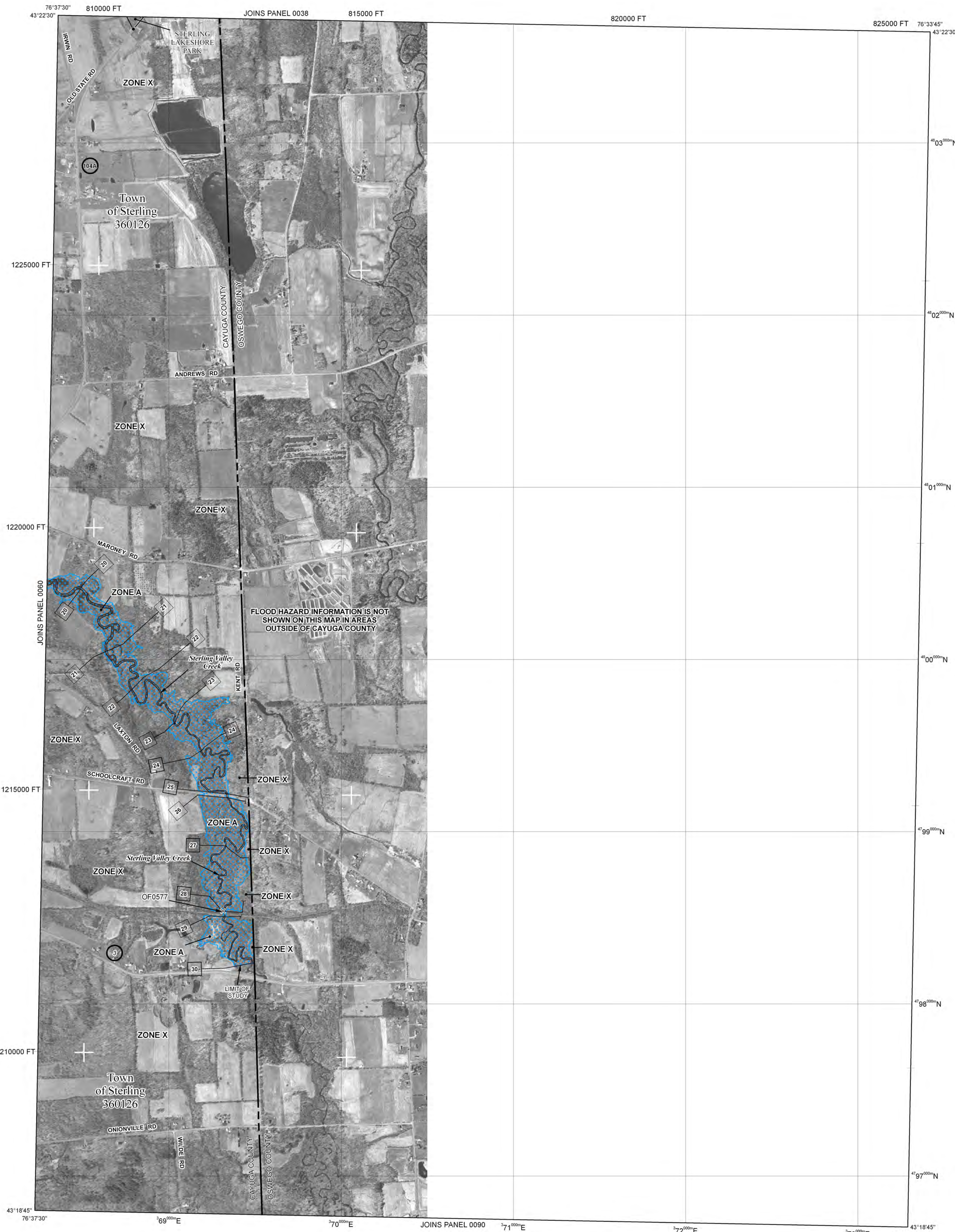
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LEGEND

- SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD
- The 1% annual flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.
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- 0.2% annual chance floodplain boundary
- Floodway boundary
- Zone D boundary
- CBRS and OPA boundary
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- Limited detail cross section line
- Transect line
- Geographic coordinates referenced to the North American Datum of 1983 (NAD 83), Western Hemisphere
- 1000-meter Universal Transverse Mercator grid values, zone 18
- 5000-foot grid ticks: New York State Plane coordinate system, central (FIPSZONE 3102), Transverse Mercator projection
- Bench mark (see explanation in Notes to Users section of this FIRM panel)
- River Mile

MAP REPOSITORY
Refer to listing of Map Repositories on Map Index

EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP
AUGUST 2, 2007

EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL

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MAP SCALE 1" = 1000'

500 0 1000 2000 FEET
300 0 300 600 METERS

NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0080E

FIRM
FLOOD INSURANCE RATE MAP
for CAYUGA COUNTY, NEW YORK
ALL JURISDICTIONS

CONTAINS:
COMMUNITY NUMBER
STERLING, TOWN OF 360126

PANEL 80 OF 635
MAP SUFFIX: E
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

Notice to User: The Map Number shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject community.

MAP NUMBER
36011C0080E

EFFECTIVE DATE
AUGUST 2, 2007

Federal Emergency Management Agency

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Spatial Reference System Division
National Geodetic Survey, NOAA
Silver Spring Metro Center
1315 East-West Highway
Silver Spring, Maryland 20910
(301) 713-3191

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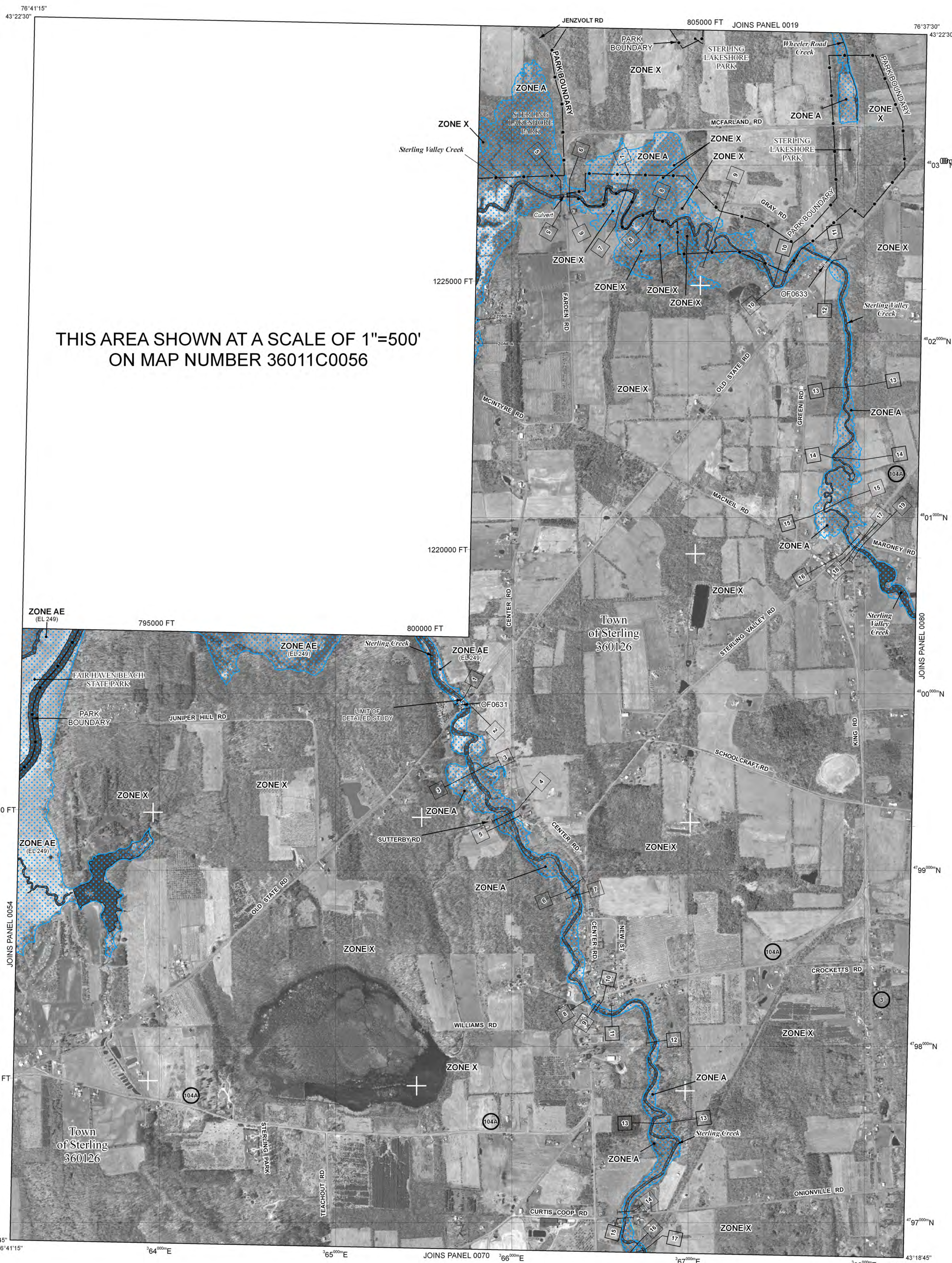
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- Transect line
- Geographic coordinates referenced to the North American Datum of 1983 (NAD 83), Western Hemisphere
- 1000-meter Universal Transverse Mercator grid values, zone 18
- 5000-foot grid ticks: New York State Plane coordinate system, central (FIPSZONE 3102), Transverse Mercator projection
- Bench mark (see explanation in Notes to Users section of this FIRM panel)
- River Mile

MAP REPOSITORY
Refer to listing of Map Repositories on Map Index.

EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP
AUGUST 2, 2007

EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL

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MAP SCALE 1" = 1000'

500 0 1000 2000 FEET
300 0 300 600 METERS

NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0060E

FIRM
FLOOD INSURANCE RATE MAP
for CAYUGA COUNTY, NEW YORK
ALL JURISDICTIONS

CONTAINS:
COMMUNITY NUMBER
STERLING, TOWN OF 360126

PANEL 60 OF 635
MAP SUFFIX: E
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

Notice to User: The Map Number shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject community.

MAP NUMBER
36011C0060E

EFFECTIVE DATE
AUGUST 2, 2007

Federal Emergency Management Agency

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Boundaries of the **floodways** were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood Insurance Program. Floodway widths and other pertinent floodway data are provided in the Flood Insurance Study report for this jurisdiction.

Certain areas not in Special Flood Hazard Areas may be protected by **flood control structures**. Refer to Section 2.4 "Flood Protection Measures" of the Flood Insurance Study report for information on flood control structures for this jurisdiction.

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NGS Information Services
NOAA, NIMS12
National Geodetic Survey
SSMC-3, #9202
1315 East-West Highway
Silver Spring, Maryland 20910-3182
(301) 713-3242

To obtain current elevation, description, and/or location information for **bench marks** shown on this map, please contact the Information Services Branch of the National Geodetic Survey at (301) 713-3242, or visit its website at <http://www.ngs.noaa.gov>.

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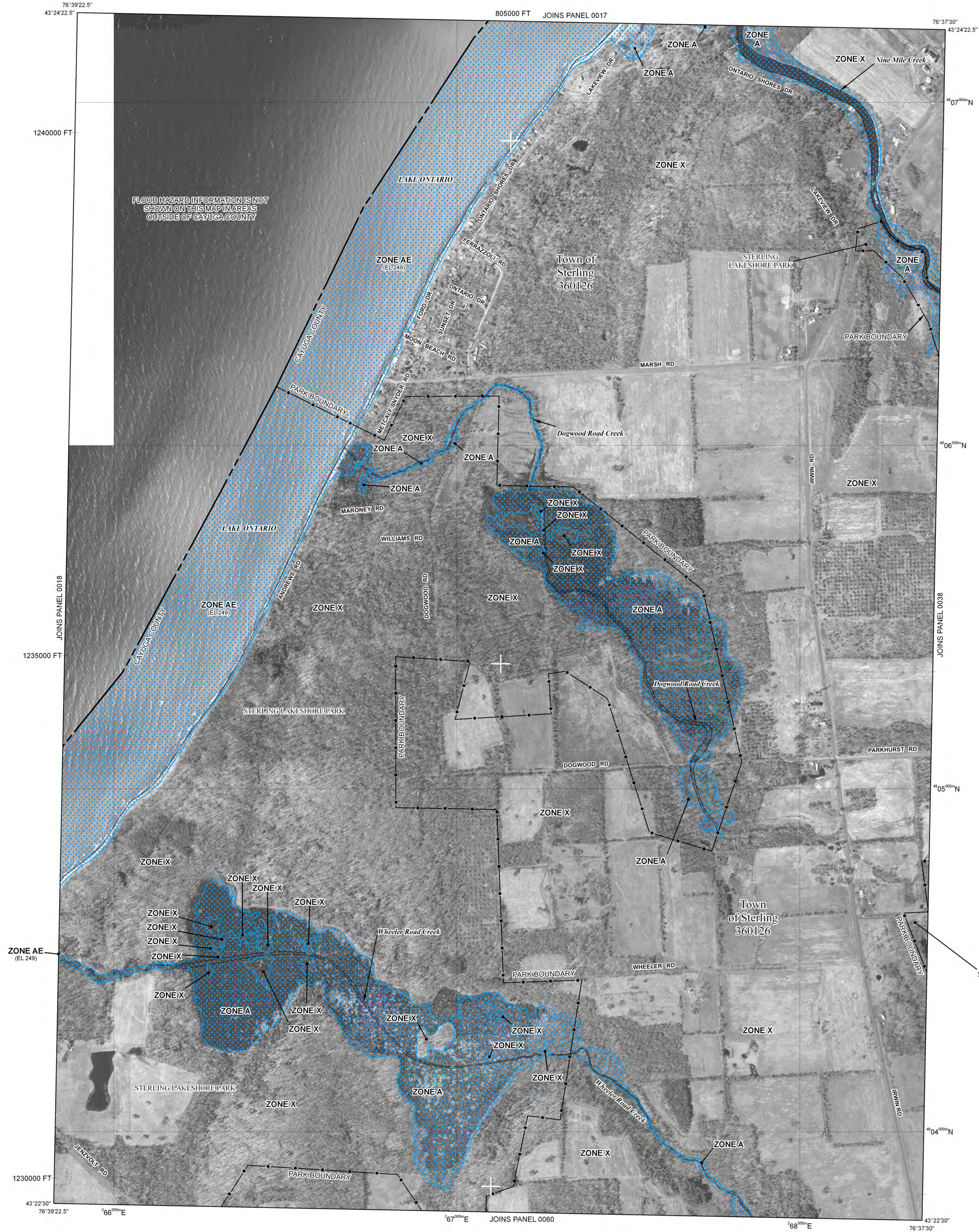
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LEGEND

SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

The 1% annual flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

- ZONE A** No Base Flood Elevations determined.
- ZONE AE** Base Flood Elevations determined.
- ZONE AH** Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.
- ZONE AO** Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.
- ZONE AR** Special Flood Hazard Area formerly protected from the 1% annual chance flood by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.
- ZONE A99** Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.
- ZONE V** Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.
- ZONE VE** Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.

FLOODWAY AREAS IN ZONE AE

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

OTHER FLOOD AREAS

- ZONE X** Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.

OTHER AREAS

- ZONE X** Areas determined to be outside the 0.2% annual chance floodplain.
- ZONE D** Areas in which flood hazards are undetermined, but possible.

COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS

OTHERWISE PROTECTED AREAS (OPAs)

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

- 1% annual chance floodplain boundary
- 0.2% annual chance floodplain boundary
- Floodway boundary
- Zone D boundary
- CBRS and OPA boundary
- Boundary dividing Special Flood Hazard Area Zones and boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths or flood velocities.
- Base Flood Elevation line and value; elevation in feet* (EL 987)
- Base Flood Elevation value where uniform within zone; elevation in feet*

* Referenced to the North American Vertical Datum of 1988

- A — A — Cross section line
- 3 — 3 — Limited detail cross section line
- 2 — 2 — Transsect line

87°07'45", 32°22'30"

76°00'N

600000 FT

DX5510 x

• M1.5 River Mile

MAP REPOSITORY

Refer to listing of Map Repositories on Map Index

EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP
AUGUST 2, 2007

EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL

For community map revision history prior to countywide mapping, refer to the Community Map History table located in the Flood Insurance Study report for this jurisdiction.

To determine if flood insurance is available in this community, contact your Insurance agent or call the National Flood Insurance Program at 1-800-638-6620.

MAP SCALE 1" = 500'

250 0 500 1000 FEET
150 0 150 300 METERS

NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0019E

FIRM
FLOOD INSURANCE RATE MAP
for CAYUGA COUNTY, NEW YORK
ALL JURISDICTIONS

CONTAINS:
COMMUNITY **NUMBER**
STERLING, TOWN OF **360126**

PANEL 19 OF 635
MAP SUFFIX: E
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

Notice to User: The Map Number shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject community.

MAP NUMBER
36011C0019E

EFFECTIVE DATE
AUGUST 2, 2007

Federal Emergency Management Agency

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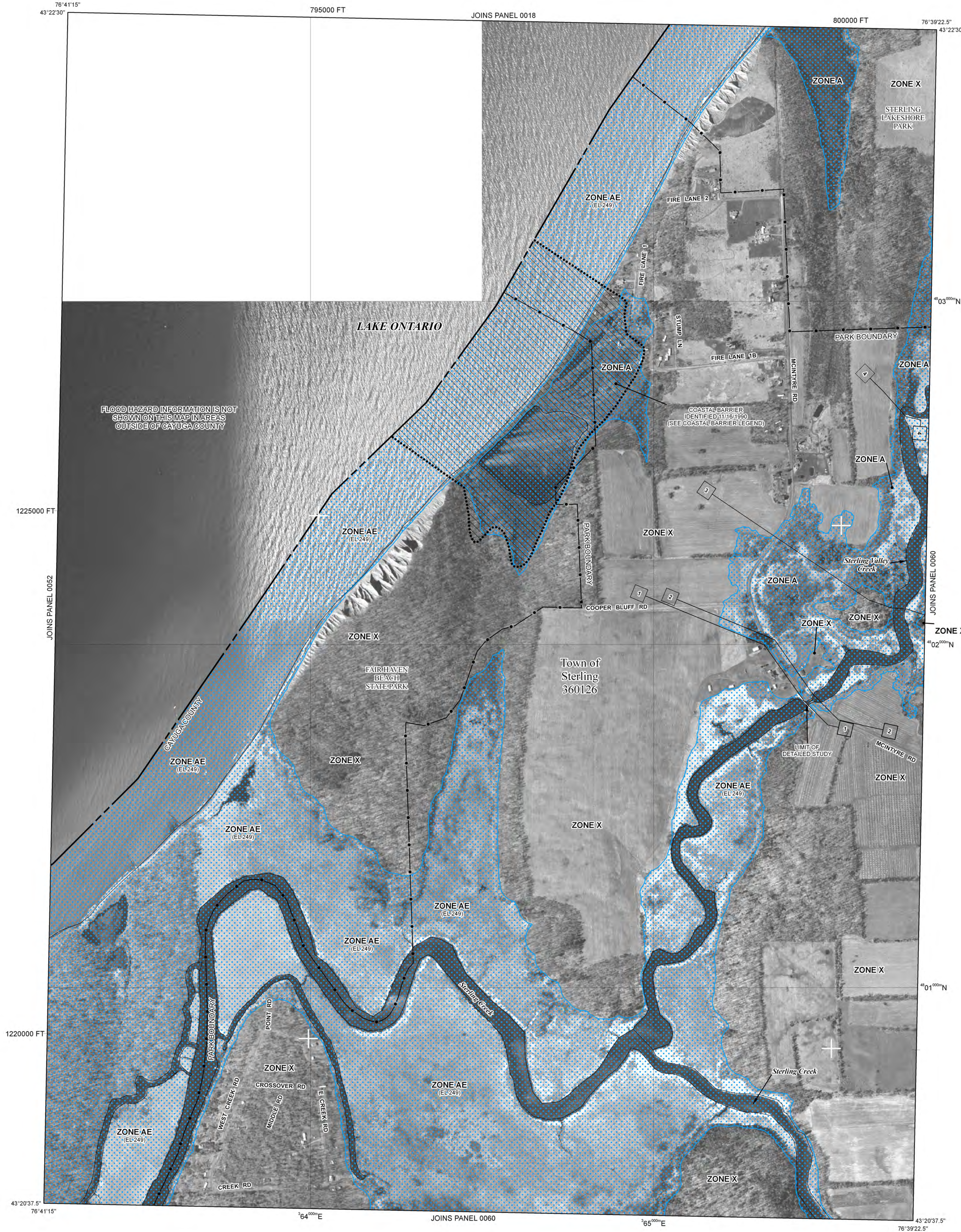


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COASTAL BARRIER LEGEND

11/16/1990 Coastal Barrier
FLOOD INSURANCE NOT AVAILABLE FOR NEW CONSTRUCTION OR SUBSTANTIALLY IMPROVED STRUCTURES ON OR AFTER NOVEMBER 16, 1990, IN DESIGNATED COASTAL BARRIERS.

Comments or concerns regarding the Coastal Barrier Resources System or Otherwise Protected Areas should be directed to the Coastal Barrier Coordinator at the U.S. Fish and Wildlife Service; (413) 253-8657.



LEGEND

- SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD
- The 1% annual flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.
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- ZONE V** Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.
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- FLOODWAY AREAS IN ZONE AE
- The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.
- OTHER FLOOD AREAS
- ZONE X** Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.
- OTHER AREAS
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- 0.2% annual chance floodplain boundary
- Floodway boundary
- Zone D boundary
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- Boundary dividing Special Flood Hazard Area Zones and boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths or flood velocities.
- Base Flood Elevation line and value; elevation in feet*
- Base Flood Elevation value where uniform within zone; elevation in feet*
- * Referenced to the North American Vertical Datum of 1988
- Cross section line
- Limited detail cross section line
- Transect line
- 87°07'45", 32°22'30" Geographic coordinates referenced to the North American Datum of 1983 (NAD 83), Western Hemisphere
- 76°00'00" N 1000-meter Universal Transverse Mercator grid values, zone 18
- 600000 FT 5000-foot grid ticks: New York State Plane coordinate system, central (FPSZONE 3102), Transverse Mercator projection
- DX5510 x Bench mark (see explanation in Notes to Users section of this FIRM panel)
- M1.5 River Mile

MAP REPOSITORY
Refer to listing of Map Repositories on Map Index

EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP
August 2, 2007

EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL

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MAP SCALE 1" = 500'

NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0056E

FIRM
FLOOD INSURANCE RATE MAP
for CAYUGA COUNTY, NEW YORK
ALL JURISDICTIONS

CONTAINS:
COMMUNITY **NUMBER**
STERLING, TOWN OF **360126**

- NOTE -
THIS MAP INCLUDES COASTAL BARRIER RESOURCES SYSTEM BOUNDARIES ESTABLISHED UNDER THE COASTAL BARRIER RESOURCES ACT OF 1982 AND/OR SUBSEQUENT LEGISLATION.

PANEL 56 OF 635
MAP SUFFIX: E
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

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MAP NUMBER
36011C0056E

EFFECTIVE DATE
AUGUST 2, 2007

Federal Emergency Management Agency

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Spatial Reference System Division
National Geodetic Survey, NOAA
Silver Spring Metro Center
1315 East-West Highway
Silver Spring, Maryland 20910
(301) 713-3191

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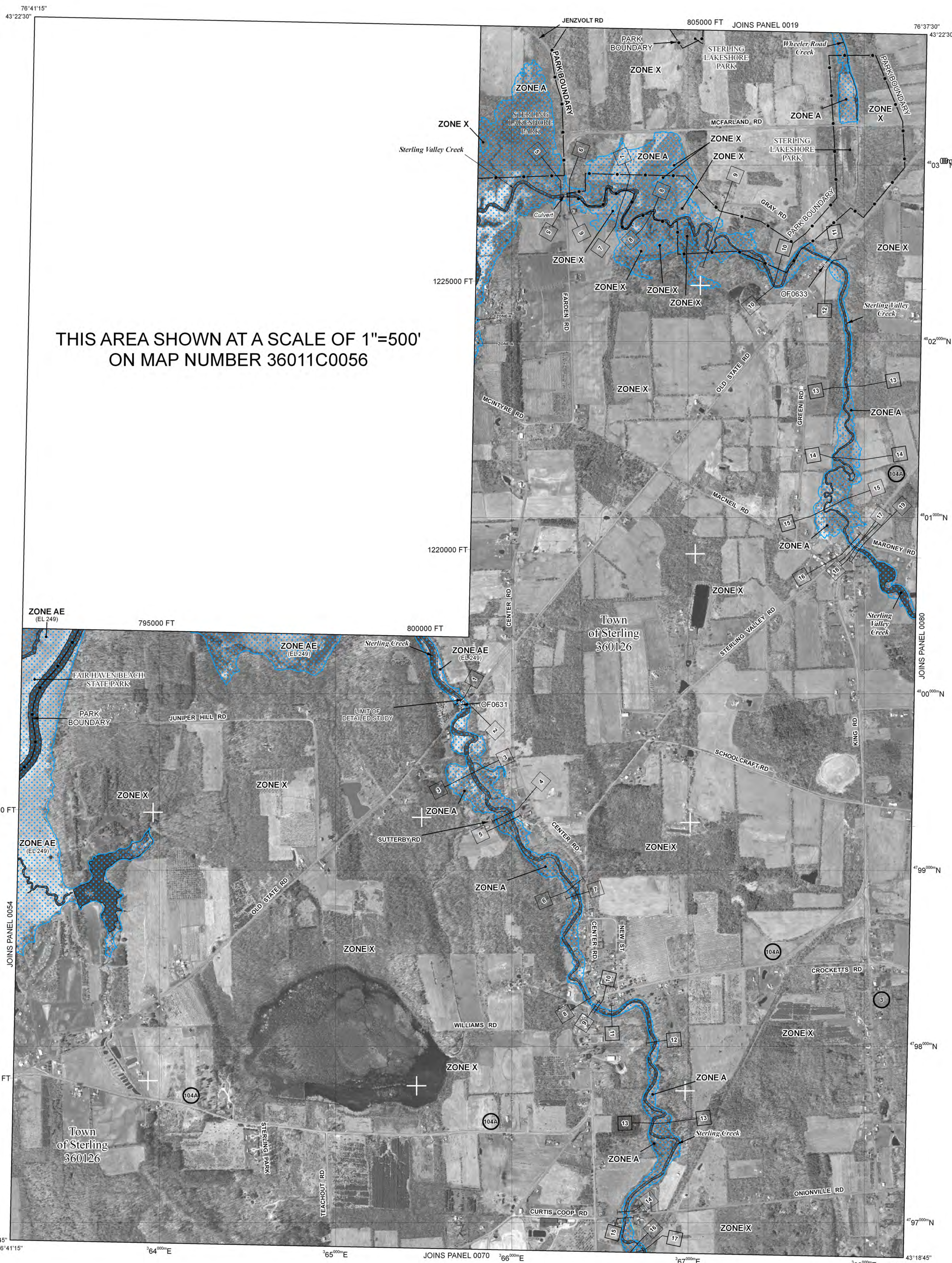
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LEGEND

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- River Mile

MAP REPOSITORY
Refer to listing of Map Repositories on Map Index.

EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP
AUGUST 2, 2007

EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL

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MAP SCALE 1" = 1000'

500 0 1000 2000 FEET
300 0 300 600 METERS

NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0060E

FIRM
FLOOD INSURANCE RATE MAP
for CAYUGA COUNTY, NEW YORK
ALL JURISDICTIONS

CONTAINS:
COMMUNITY NUMBER
STERLING, TOWN OF 360126

PANEL 60 OF 635
MAP SUFFIX: E
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

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MAP NUMBER
36011C0060E

EFFECTIVE DATE
AUGUST 2, 2007

Federal Emergency Management Agency

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(301) 713-3191

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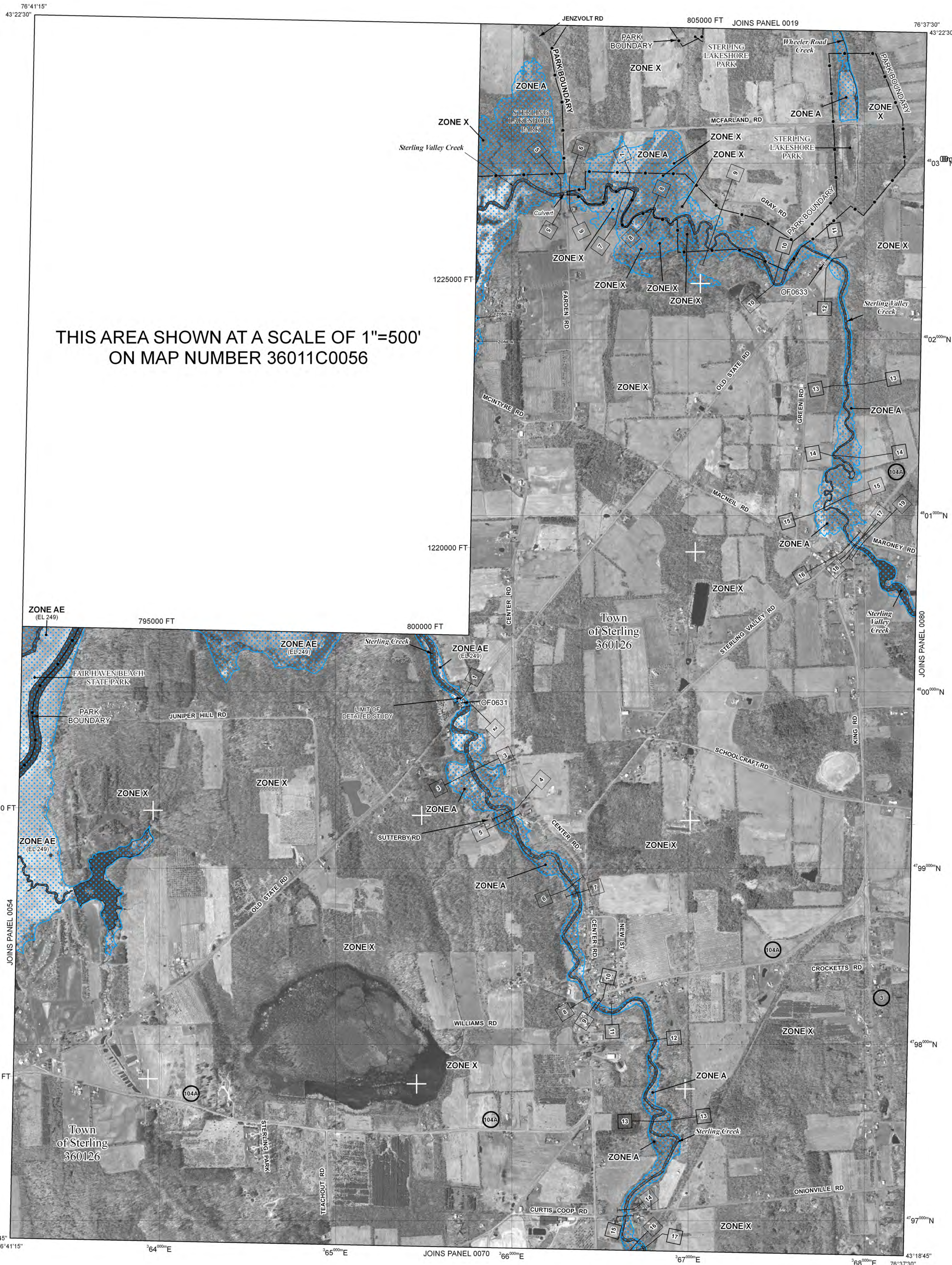
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If you have **questions about this map** or questions concerning the National Flood Insurance Program in general, please call 1-877-FEMA MAP (1-877-336-2627) or visit the FEMA website at <http://www.fema.gov>.



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LEGEND

- SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD
- The 1% annual flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.
- ZONE A** No Base Flood Elevations determined.
- ZONE AE** Base Flood Elevations determined.
- ZONE AH** Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.
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- ZONE AR** Special Flood Hazard Area formerly protected from the 1% annual chance flood by a flood control system that was subsequently declassified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.
- ZONE A99** Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.
- ZONE V** Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.
- ZONE VE** Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.
- FLOODWAY AREAS IN ZONE AE
- The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.
- OTHER FLOOD AREAS
- ZONE X** Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.
- OTHER AREAS
- ZONE X** Areas determined to be outside the 0.2% annual chance floodplain.
- ZONE D** Areas in which flood hazards are undetermined, but possible.
- COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS
- OTHERWISE PROTECTED AREAS (OPAs)
- CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.
- 1% annual chance floodplain boundary
- 0.2% annual chance floodplain boundary
- Floodway boundary
- Zone D boundary
- CBRS and OPA boundary
- Boundary dividing Special Flood Hazard Area Zones and boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths or flood velocities.
- Base Flood Elevation line and value; elevation in feet*
- Base Flood Elevation value where uniform within zone; elevation in feet*
- * Referenced to the North American Vertical Datum of 1988
- Cross section line
- Limited detail cross section line
- Transsect line
- Geographic coordinates referenced to the North American Datum of 1983 (NAD 83), Western Hemisphere
- 1000-meter Universal Transverse Mercator grid values, zone 18
- 5000-foot grid ticks: New York State Plane coordinate system, central (FIPSZONE 3102), Transverse Mercator projection
- Bench mark (see explanation in Notes to Users section of this FIRM panel)
- River Mile

MAP REPOSITORY
Refer to listing of Map Repositories on Map Index.

EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP
AUGUST 2, 2007

EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL

For community map revision history prior to countywide mapping, refer to the Community Map History table located in the Flood Insurance Study report for this jurisdiction.

To determine if flood insurance is available in this community, contact your Insurance agent or call the National Flood Insurance Program at 1-800-638-6620.

MAP SCALE 1" = 1000'

500 0 1000 2000 FEET
300 0 300 600 METERS

NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0060E

FIRM
FLOOD INSURANCE RATE MAP
for CAYUGA COUNTY, NEW YORK
ALL JURISDICTIONS

CONTAINS:
COMMUNITY NUMBER
STERLING, TOWN OF 360126

PANEL 60 OF 635
MAP SUFFIX: E
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

Notice to User: The Map Number shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject community.

MAP NUMBER
36011C0060E

EFFECTIVE DATE
AUGUST 2, 2007

Federal Emergency Management Agency

NOTES TO USERS

This map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. The community map repository should be consulted for possible updated or additional flood hazard information.

To obtain more detailed information in areas where **Base Flood Elevations (BFEs)** and/or **floodways** have been determined, users are encouraged to consult the Flood Profiles and Floodway Data and/or Summary of Stillwater Elevations tables contained within the Flood Insurance Study (FIS) report that accompanies this FIRM. Users should be aware that BFEs shown on the FIRM represent rounded whole-foot elevations. These BFEs are intended for flood insurance rating purposes only and should not be used as the sole source of flood elevation information. Accordingly, flood elevation data presented in the FIS report should be utilized in conjunction with the FIRM for purposes of construction and/or floodplain management.

Coastal Base Flood Elevations shown on this map apply only landward of 0.0' North American Vertical Datum of 1988 (NAVD 88). Users of this FIRM should be aware that coastal flood elevations are also provided in the Summary of Stillwater Elevations tables in the Flood Insurance Study report for this jurisdiction. Elevations shown in the Summary of Stillwater Elevations tables should be used for construction and/or floodplain management purposes when they are higher than the elevations shown on this FIRM.

Boundaries of the **floodways** were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood Insurance Program. Floodway widths and other pertinent floodway data are provided in the Flood Insurance Study report for this jurisdiction.

Certain areas not in Special Flood Hazard Areas may be protected by **flood control structures**. Refer to Section 2.4 "Flood Protection Measures" of the Flood Insurance Study report for information on flood control structures for this jurisdiction.

The **projection** used in the preparation of this map was Universal Transverse Mercator (UTM) zone 18. The **horizontal datum** was NAD 83, GRS80 spheroid. Differences in datum, spheroid, projection or UTM zones used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of this FIRM.

Flood elevations on this map are referenced to the North American Vertical Datum of 1988. These flood elevations must be compared to structure and ground elevations referenced to the same **vertical datum**. For information regarding conversion between the National Geodetic Vertical Datum of 1929 and the North American Vertical Datum of 1988, visit the National Geodetic Survey website at <http://www.ngs.noaa.gov> or contact the National Geodetic Survey at the following address:

Spatial Reference System Division
National Geodetic Survey, NOAA
Silver Spring Metro Center
1315 East-West Highway
Silver Spring, Maryland 20910
(301) 713-3191

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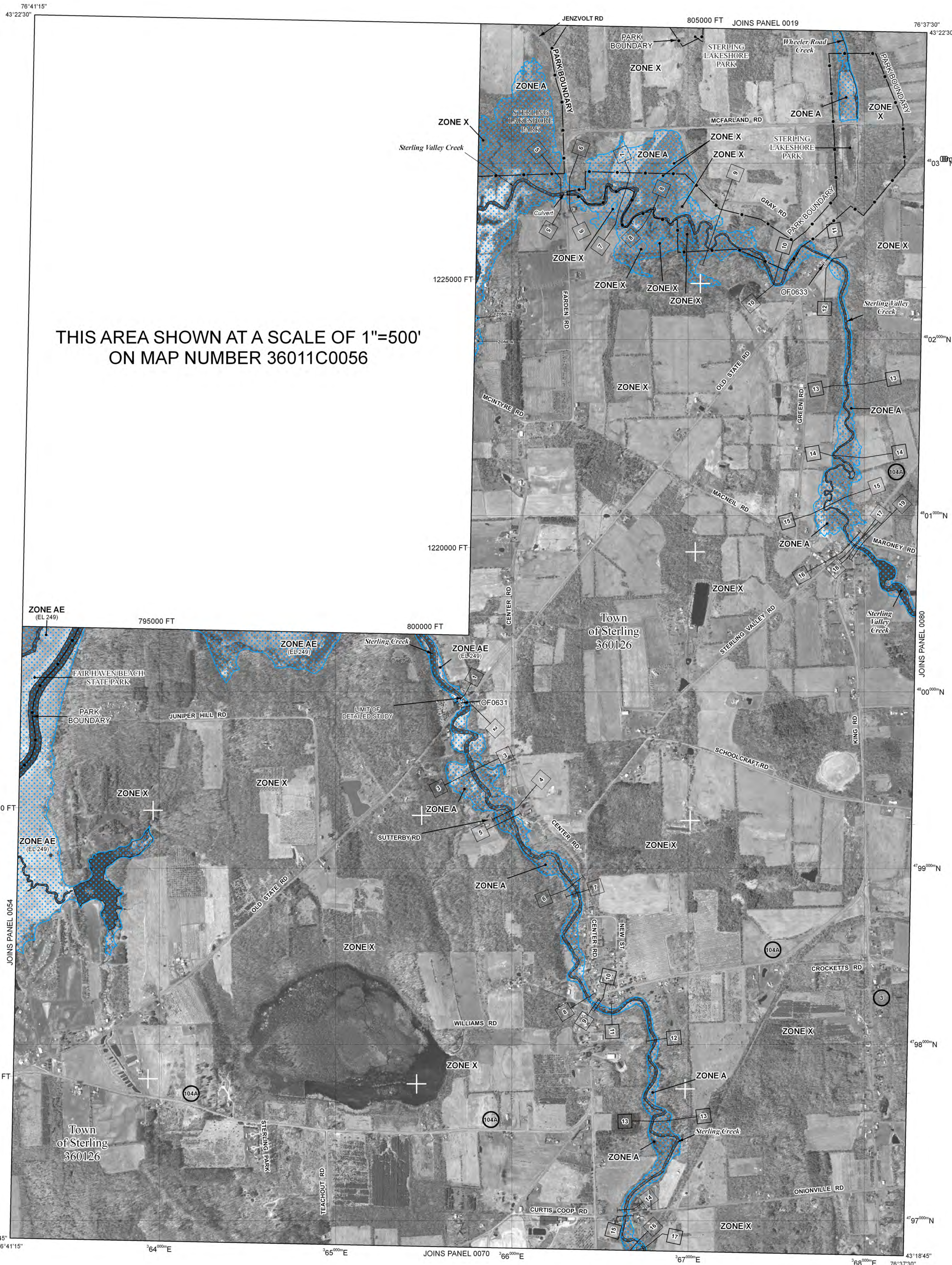
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500 0 1000 2000 FEET
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NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0060E

FIRM
FLOOD INSURANCE RATE MAP
for CAYUGA COUNTY, NEW YORK
ALL JURISDICTIONS

CONTAINS:
COMMUNITY NUMBER
STERLING, TOWN OF 360126

PANEL 60 OF 635
MAP SUFFIX: E
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

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MAP NUMBER
36011C0060E

EFFECTIVE DATE
AUGUST 2, 2007

Federal Emergency Management Agency

Appendix G Cost Tables

Town of Sterling - WD #2

PROBABLE CONSTRUCTION COSTS

Water District #2

	Quantity	Unit	\$/Unit	Tot. Cost
Mobilization:	1	l.s.	\$60,000	\$60,000
8" Water Main:	29,300	l.f.	\$34	\$996,200
10" Water Main:	21,500	l.f.	\$37	\$795,500
12" Water Main:	225	l.f.	\$40	\$9,000
Hydrant w/Valve:	86	ea.	\$4,500	\$387,000
8" Gate Valve:	64	ea.	\$1,500	\$96,000
Service Taps:	94	ea.	\$750	\$70,500
Water Service Pipe:	4,700	ft.	\$10	\$47,000
Meter Pits:	94	ea.	\$1,500	\$141,000
Road Borings:	700	l.f.	\$125	\$87,500
Stream Crossing:	2	ea.	\$11,000	\$22,000
Rock Removal	10	c.y.	\$100	\$1,000
Highway Pushes	47	ea.	\$750	\$35,250
Water Meters	94	ea.	\$225	\$21,150
Connect to Exist's:	1	ea.	5,000	5,000
Tank and Well:	1	ls	1,300,000	1,300,000
Meter Vault:	1	ls	40,000	40,000

Construction Total: \$4,114,100

Contingency: \$411,500

Construction Total: 4,525,600

Legal and Administration: \$100,000

Engineering: \$515,000

Survey & Borings: \$70,000

Construction Services: \$120,000

Project Total: \$5,331,000

Town of Sterling – Water District #2
Projected User Costs

Water from Fair Haven:

Typical usage = 170 gallons/household/day

≈ 94 households = 15,980 gpd = 486,058 gallons per month

Rate = \$3.25/1,000 gallons plus \$50 per EDU base rate maintenance charge

O&M:

$\$3.25/1,000 \text{ gallons} \times 486,058 \text{ gallons} = \$1,580/\text{month} = \$18,960/\text{year}$

Water Usage Charge = \$202/EDU/year
EDU/year Maintenance Charge = \$50/EDU/year

Estimated Annual Cost \$252/EDU/year

Appendix H
Health and Sanitation Documentation

TOWN OF STERLING
OFFICE OF CODE ENFORCEMENT
1290 State Route 104A
Sterling, NY 13156

July 19, 2019

Ms. June Smith, Supervisor
Town of Sterling
1290 State Route 104A
Sterling, NY 13156

RE: Town of Sterling – Proposed Water District No. 2
Cayuga County, NY

Dear Supervisor Smith,

As you may know New York State has established minimum standards for the design and construction of private, on-site water systems (IWS). These standards are contained in the New York State Sanitary Code and Building Code. Residential Code subsection P2602.1.1 requires IWS wells be located and constructed according to New York State Department Sanitary Code, 10NYCRR Appendix 5-B standards. Wells that do not meet these standards pose a significant risk for public health. In addition, IWSs are also to meet standards for potable water supply set forth in SSC Subpart 5-1, Section 5-1.52.

I have reviewed the proposed Water District No. 2 project, and based on my findings, I was able to determine that a significant portion of the properties in the proposed service area do not meet these standards. As documented by resident survey results obtained from property owners throughout the proposed project area, a significant portion of properties distributed throughout the project area have dug wells that do not meet the above standards. As the regulatory entity for these supplies, I can say wells within the project area do not meet NYS Sanitary Code.

The primary purpose of the proposed project is to construct a new water distribution system required to allow these homes to be supplied with drinking water meeting applicable health or sanitary standards. The completion of the project will alleviate the existing health or sanitary problems.

Should you have any questions on this information, please contact me.

Sincerely,



Bob Day, CEO



NEW YORK STATE DEPARTMENT OF HEALTH

Bureau of Water Supply Protection

Flanigan Square, 547 River Street, Troy, New York 12180-2216

INDIVIDUAL WATER SUPPLY WELLS - FACT SHEET #5 SUSCEPTIBLE WATER SOURCES

(Well Points, Dug Wells, Springs and Shore Wells)

Individual (residential) water supplies (IWS) need to provide adequate quantities of water fit for consumption and intended uses. A drilled well, located and constructed in accordance with 10NYCRR Appendix 5-B “Standards for Water Wells”, should routinely be the water supply option selected. Well points, dug wells, springs and shore wells are susceptible to contamination from pathogens, spills, etc. and the effects from drought. These water sources may be considered only as a last resort with proper protective measures and, in most cases, will require approval by County or State health department officials through issuance of a specific waiver pursuant to Part 75 of the State Health Department’s Administrative Rules and Regulations or via a county sanitary code waiver provision.

SPECIFIC INFORMATION FOR SUSCEPTIBLE WATER SOURCE TYPES

The following types of water sources typically utilize surface water bodies or shallow groundwater sources. Surface waters can contain bacteria, parasites, viruses and possibly other contaminants and shallow groundwater sources are also at significant risk of contamination. These water sources typically have distinguishing construction characteristics which do not comply with Appendix 5-B requirements and would therefore require a specific waiver or other county approval if utilized.

Well Points

A well point (or “driven point”) is a special type of well installed using a drive point with a built-in screen fastened to the end of a small diameter pipe (usually 1-1/4 to 2 inches) and without a protective outer casing. Well points are installed by pounding, driving or excavating down to the water table. These wells are usually constructed in shallow aquifers with sandy soils, within 10 to 30 feet of the ground surface and use a suction pump to draw water. Single pipe driven point wells under suction are not in compliance with Appendix 5-B and should be avoided.

Dug Wells

A dug well is constructed by making a large diameter excavation into a shallow aquifer, by hand digging or backhoe and shoring the excavation with large diameter concrete rings. (Shoring constructed with stone or brick are not in compliance with Appendix 5-B and should be avoided.) Dug wells are typically less than 15 feet deep and usually use a suction pump to draw water.

Springs

Springs occur where an aquifer discharges naturally at or near the ground surface, and are broadly classified as either rock or earth springs. It is often difficult to determine the true source of a spring (that is, whether it truly has the natural protection against contamination that a groundwater aquifer typically has.) Even if the source is a good aquifer, it is difficult to develop a collection device (e.g., “spring box”) that reliably protects against entry of contaminants under all weather conditions. (The term “spring box” varies, and, depending on its construction, would be equivalent to, and treated the same, as either a spring, well point or shore well.) Increased yield and turbidity during rain events are indications of the source being under the direct influence of surface water.

Shore Wells

“Shore wells” (also known as “infiltration galleries” or “cassion wells”) are shallow wells influenced by surface water and are installed near a waterbody in a shallow aquifer that is directly connected to surface water. Shore wells can also be shallow subsurface devices adjacent to a water body, installed to collect water through a covered stone-filled trench or similar arrangement that drains surface water to a “storage” well or tank. Soils surrounding shore wells provide minimal filtration. The risk of contamination of these water sources can be similar to those of surface water sources.

ADDITIONAL CONSIDERATIONS AND RECOMMENDATIONS

The use of susceptible sources as described above is discouraged. A properly installed drilled well should be considered first before considering the use of a susceptible source. As a last resort, when the use of a susceptible source is considered, the following is recommended:

Well Points, Dug Wells and Springs

Where shallow ground water aquifers exist, well points, dug wells and springs can be allowed if they are installed by a certified New York State Department of Environmental Conservation (NYS DEC) registered water well contractor and, in most cases, require issuance of a specific waiver by the LHD or county sanitary code approval as needed. For these sources, installation of appropriate treatment should be considered (e.g., continuous disinfection). For springs, an engineering report, which may include a hydrogeologic study, should also be provided to assure that the water source is satisfactory.

Shore Wells

In cases where satisfactory groundwater cannot be developed according to Appendix 5-B standards, a specific waiver or approvals via county sanitary code can be requested for development of a shore well. All such requests should demonstrate unsatisfactory availability of groundwater via an engineering report or other evidence (such as a hydrogeologic study) deemed acceptable by the approval authority. Since shore wells provide minimal natural filtration of surface water, all requests should include proposed design, treatment (including filtration and continuous disinfection) and an operation, maintenance and monitoring plan developed by a professional engineer. After health department approval, the shore well needs to be installed by a certified NYS DEC registered water well contractor. Inclusion of a deed amendment as a condition on the specific waiver approval should also be considered. A professional engineer should certify that the construction and installation of treatment has been provided according to plans.

WATER QUALITY TESTING

Water quality testing is important for all drinking water wells to identify water characteristics and determine treatment needs. See NYS DOH Fact Sheet #3, "Recommended Residential Water Quality Testing" for a recommended minimum list of parameters to test for. It is recommended to test for coliform bacteria every year and to periodically re-test water quality; this is particularly important for water supplies susceptible to contamination.

COUNTY OR STATE HEALTH DEPARTMENT APPROVAL PROCESS REQUIRING A SPECIFIC WAIVER FROM PART 75 OR A COUNTY SANITARY CODE PROVISION

The local health official (see below) for the geographic area where the property that will utilize the water source is located should be contacted for information about how to apply for a specific waiver or other county sanitary code approval. **It is recommended that, before an application for a waiver or other approval is submitted, the local health official be contacted regarding conceptual acceptability of the proposal.** A specific waiver or other approval **IS NOT** intended as a device for routinely approving individual water sources that do not meet state standards. It is intended to provide administrative flexibility to address rare cases when hardships exist and/or other circumstances that make it impractical to meet Appendix 5-B standards.

ADDITIONAL INFORMATION:

Appendix 5-B can be found at:

<http://www.health.state.ny.us/environmental/water/drinking/part5/appendix5b.htm>

NYSDEC registered well drillers can be found at: <http://www.dec.ny.gov/cfm/xtapps/WaterWell/index.cfm>

For a copy of Appendix 5-B or other Fact Sheets or questions concerning this Fact Sheet:

Contact Your Local Health Department
Official
(look for environmental health contacts)
www.nysacho.org/Directory/directory.html

or

Residential Sanitation Section
Bureau of Water Supply Protection
New York State Department of Health
(518) 402-7650 or FAX (518)
402-7659

Appendix I
Questionnaire Responses

- 11. The water has caused deterioration of: plumbing hot water heaters
 hot water heating systems filtering systems
- 12. Do you practice water conservation? always never occasionally
- 13. Do you purchase or obtain drinking water from another source? yes no
- 14. Has a well or wells ever gone dry? frequently occasionally never
- 15. How long has the problem existing? years (how many _____) occasionally
- 16. Do you do laundry at home? always occasionally never
- 17. Are you able to flush the toilet with each use? yes no
- 18. Have you ever had bulk delivery of water? always occasionally never
- 19. Are you concerned about fire protection? yes no

COMMENTS:

Please sign in appropriate area.

I am in favor of the development of a water district on my road.

Signature _____ Date 9/1/18

I am against the development of a water district on my road.

Signature _____ Date _____

NAME _____

ADDRESS _____

PHONE _____

RECEIVED

SEP 06 2018

Capital Consultants, Inc., P C
C22e

Please complete both sides!

Your input is valuable!



Capital Consultants Architecture and Engineering
70 Main St.
Canton, NY 13617
O: 315.386.2623
www.c2ae.com

156

VACANT

MEMO

From: C2AE on behalf of the Town of Sterling

Date: August 29, 2018

Our records indicate you own a vacant parcel in the area where we are performing an interest study for a potential future water district in the Town of Sterling. We wish to include you in the questionnaire to see if you had interest in a new municipal water system.

Please write "VACANT" at top of questions and skip to signature section on the back page.

If parcel is no longer vacant, please fill out as many of the questions as you can.

Thank you for your assistance.

RECEIVED

DEC 03 2018

No Questionnaire
Received
Just Memo

Capital Consultants, Inc., P.C.
02816

11. The water has caused deterioration of: plumbing hot water heaters
 hot water heating systems filtering systems
12. Do you practice water conservation? always never occasionally
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18. Have you ever had bulk delivery of water? always occasionally never
19. Are you concerned about fire protection? yes no

COMMENTS:

Please sign in appropriate area.

I am **in favor of** the development of a water district on my road.

Signature _____

Date

[Signature] 9/11/2019

I am **against** the development of a water district on my road.

Signature _____

Date _____

11. The water has caused deterioration of: () plumbing () hot water heaters
 () hot water heating systems () filtering systems *not applicable*
12. Do you practice water conservation? () always () never () occasionally *N/A*
13. Do you purchase or obtain drinking water from another source? () yes () no *N/A*
14. Has a well or wells ever gone dry? () frequently () occasionally () never *unknown*
15. How long has the problem existing? () years (how many _____) () occasionally *N/A*
16. Do you do laundry at home? () always () occasionally () never *N/A*
17. Are you able to flush the toilet with each use? () yes () no *N/A*
18. Have you ever had bulk delivery of water? () always () occasionally () never *N/A*
19. Are you concerned about fire protection? () yes () no

COMMENTS: *We purchased the property with a small cabin that was uninhabitable. We, therefore, have never used the water. We plan to build there some day and would love to have access to water service.*

Please sign in appropriate area.

I am **in favor of** the development of a water district on my road.

Signature _____ Date 9-9-18

I am **against** the development of a water district on my road.

Signature _____ Date _____

SURVEY FOR THE DEVELOPMENT OF PUBLIC WATER TOWN OF STERLING

Dear Neighbors:

The Town Board is trying to obtain information to determine if there is need for future water service areas. This survey was prepared to assist the engineers and the Town Board with the statistics needed. Please try to answer the questions below and then sign in the space indicating your choice (pro or con) to pursue funding for a public water system. If there is demonstrated support for a project, the Town will use the compiled results to apply for State and Federal Grant and Low Interest Loan money to construct an affordable project. The survey results will be utilized by the Engineers involved in order to recommend potential project areas to consider.



It is important to determine where problems exist in the area where you live and whether sufficient interest exists to secure outside funding for expanding the supply of public water. **This information does not commit you either way.**

Thank you!

Town Board

SURVEY QUESTIONS (Please use a pen)

1. Type of well: Drilled () Dug () Other
2. Number of wells: 1 () 2 () 3
3. Depth of well or wells: (92) feet () feet () feet
4. Recovery time of the well or wells is/ are:
 good () poor () has changed
if changed: () more () less
5. Has/Have the well/wells ever been contaminated? () yes no
6. If yes to #5, state type of contamination of well or wells:

7. Has the contamination been corrected?
() yes () no () have installed a system or filter to correct
8. The taste of the water is: good () poor () tastes like _____
9. The clarity of the water is: clear () cloudy () changes with increased use
10. The water causes discoloration of: () sinks/toilets () clothes never

Please complete both sides!

Your input is valuable!

11. The water has caused deterioration of: () plumbing () hot water heaters
() hot water heating systems () filtering systems
12. Do you practice water conservation? () always () never () occasionally
13. Do you purchase or obtain drinking water from another source? () yes no
14. Has a well or wells ever gone dry? () frequently () occasionally never
15. How long has the problem existing? () years (how many _____) () occasionally
16. Do you do laundry at home? always occasionally () never
17. Are you able to flush the toilet with each use? yes () no
18. Have you ever had bulk delivery of water? () always () occasionally never
19. Are you concerned about fire protection? () yes no

COMMENTS:

Please sign in appropriate area.

I am in favor of the development of a water district on my road.

Signature _____

Date _____

I am against the development of a water district on my road.

Signature _____

Date 9/8/2018

11. The water has caused deterioration of: plumbing hot water heaters
 hot water heating systems filtering systems
12. Do you practice water conservation? always never occasionally
13. Do you purchase or obtain drinking water from another source? yes no
14. Has a well or wells ever gone dry? frequently occasionally never
15. How long has the problem existing? years (how many 34) occasionally
16. Do you do laundry at home? always occasionally never
17. Are you able to flush the toilet with each use? yes no
18. Have you ever had bulk delivery of water? always occasionally never
19. Are you concerned about fire protection? yes no

COMMENTS: Laundry Summer time have to do OUT.
once Had to have water deliver. But with the type of
well we have (stone lined) will NOT Hold water.
Summer time have to Conserve Big Time

Please sign in appropriate area.

I am **in favor of** the development of a water district on my road. Price \$?

Signature _____ Date 9-3-18

I am **against** the development of a water district on my road.

Signature _____ Date _____

11. The water has caused deterioration of: () plumbing () hot water heaters
() hot water heating systems () filtering systems
12. Do you practice water conservation? (X) always () never () occasionally
13. Do you purchase or obtain drinking water from another source? (X) yes () no
14. Has a well or wells ever gone dry? () frequently () occasionally (X) never
15. How long has the problem existing? () years (how many _____) () occasionally
16. Do you do laundry at home? () always () occasionally (X) never
17. Are you able to flush the toilet with each use? (X) yes () no
18. Have you ever had bulk delivery of water? () always () occasionally (X) never
19. Are you concerned about fire protection? () yes (X) no

COMMENTS:

The house has limited use and is open only during the summer.

Please sign in appropriate area.

I am **in favor of** the development of a water district on my road.

Signature _____

Date _____

I am **against** the development of a water district on my road.

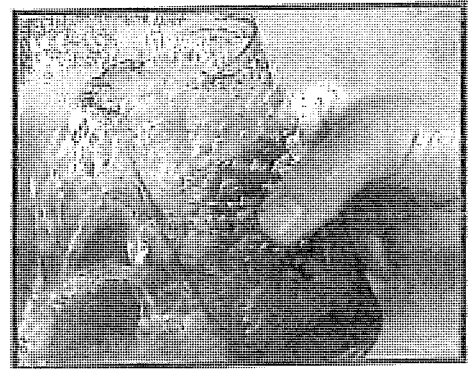
Signature _____

Date 9/4/18

SURVEY FOR THE DEVELOPMENT OF PUBLIC WATER TOWN OF STERLING

Dear Neighbors:

The Town Board is trying to obtain information to determine if there is need for future water service areas. This survey was prepared to assist the engineers and the Town Board with the statistics needed. Please try to answer the questions below and then sign in the space indicating your choice (pro or con) to pursue funding for a public water system. If there is demonstrated support for a project, the Town will use the compiled results to apply for State and Federal Grant and Low Interest Loan money to construct an affordable project. The survey results will be utilized by the Engineers involved in order to recommend potential project areas to consider.



It is important to determine where problems exist in the area where you live and whether sufficient interest exists to secure outside funding for expanding the supply of public water. **This information does not commit you either way.**

Thank you!

Town Board

SURVEY QUESTIONS (Please use a pen)

1. Type of well: () Drilled () Dug () Other
2. Number of wells: () 1 () 2 () 3
3. Depth of well or wells: (¹⁵⁻²⁰) feet () feet () feet
4. Recovery time of the well or wells is/ are:
 () good () poor () has changed
 if changed: () more () less
5. Has/Have the well/wells ever been contaminated? () yes () no
6. If yes to #5, state type of contamination of well or wells:
 High bacteria level
7. Has the contamination been corrected?
 () yes () no () have installed a system or filter to correct
8. The taste of the water is: () good () poor () tastes like _____
9. The clarity of the water is: () clear () cloudy () changes with increased use
10. The water causes discoloration of: () sinks/toilets () clothes () never

Please complete both sides!

Your input is valuable!

- 11. The water has caused deterioration of: plumbing hot water heaters
 hot water heating systems filtering systems
- 12. Do you practice water conservation? always never occasionally
- 13. Do you purchase or obtain drinking water from another source? yes no
- 14. Has a well or wells ever gone dry? frequently occasionally never
- 15. How long has the problem existing? 2 years (how many _____) occasionally
- 16. Do you do laundry at home? always occasionally never
- 17. Are you able to flush the toilet with each use? yes no
- 18. Have you ever had bulk delivery of water? always occasionally never
- 19. Are you concerned about fire protection? yes no

COMMENTS:

Strongly in favor of public water

Please sign in appropriate area.

I am **in favor of** the development of a water district on my road.

Signature _____ Date 9-9-18

I am **against** the development of a water district on my road.

Signature _____ Date _____

**SURVEY FOR THE DEVELOPMENT OF PUBLIC WATER
TOWN OF STERLING**

Dear Neighbors:

The Town Board is trying to obtain information to determine if there is need for future water service areas. This survey was prepared to assist the engineers and the Town Board with the statistics needed. Please try to answer the questions below and then sign in the space indicating your choice (pro or con) to pursue funding for a public water system. If there is demonstrated support for a project, the Town will use the compiled results to apply for State and Federal Grant and Low Interest Loan money to construct an affordable project. The survey results will be utilized by the Engineers involved in order to recommend potential project areas to consider.



It is important to determine where problems exist in the area where you live and whether sufficient interest exists to secure outside funding for expanding the supply of public water. **This information does not commit you either way.**

Thank you!

Town Board

**SURVEY QUESTIONS
(Please use a pen)**

1. Type of well: Drilled Dug () Other
2. Number of wells: () 1 () 2 3
3. Depth of well or wells: (60) feet (75) feet (10) feet
4. Recovery time of the well or wells is/ are:
 good () poor () has changed
 if changed: () more () less
5. Has/Have the well/wells ever been contaminated? () yes no
6. If yes to #5, state type of contamination of well or wells:

7. Has the contamination been corrected?
 () yes () no () have installed a system or filter to correct
8. The taste of the water is: () good () poor () tastes like _____
9. The clarity of the water is: () clear () cloudy () changes with increased use
10. The water causes discoloration of: () sinks/toilets () clothes never

Please complete both sides!

Your input is valuable!

- 11. The water has caused deterioration of: () plumbing () hot water heaters
() hot water heating systems () filtering systems
- 12. Do you practice water conservation? () always () never occasionally
- 13. Do you purchase or obtain drinking water from another source? () yes no
- 14. Has a well or wells ever gone dry? () frequently occasionally () never
- 15. How long has the problem existing? () years (how many _____) occasionally
- 16. Do you do laundry at home? always () occasionally () never
- 17. Are you able to flush the toilet with each use? yes () no
- 18. Have you ever had bulk delivery of water? () always () occasionally never
- 19. Are you concerned about fire protection? () yes no

COMMENTS:

Please sign in appropriate area.

I am **in favor of** the development of a water district on my road.

Signature _____ Date _____

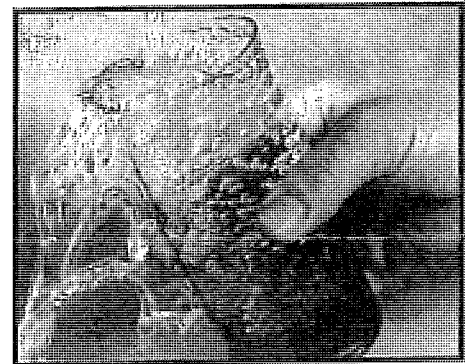
I am **against** the development of a water district on my road.

Signature _____ Date 9/21/18

SURVEY FOR THE DEVELOPMENT OF PUBLIC WATER TOWN OF STERLING

Dear Neighbors:

The Town Board is trying to obtain information to determine if there is need for future water service areas. This survey was prepared to assist the engineers and the Town Board with the statistics needed. Please try to answer the questions below and then sign in the space indicating your choice (pro or con) to pursue funding for a public water system. If there is demonstrated support for a project, the Town will use the compiled results to apply for State and Federal Grant and Low Interest Loan money to construct an affordable project. The survey results will be utilized by the Engineers involved in order to recommend potential project areas to consider.



It is important to determine where problems exist in the area where you live and whether sufficient interest exists to secure outside funding for expanding the supply of public water. **This information does not commit you either way.**

Thank you!

Town Board

SURVEY QUESTIONS (Please use a pen)

Vacant

1. Type of well: Drilled Dug Other
2. Number of wells: 1 2 3
3. Depth of well or wells: feet feet feet
4. Recovery time of the well or wells is/ are:
 good poor has changed
 if changed: more less
5. Has/Have the well/wells ever been contaminated? yes no
6. If yes to #5, state type of contamination of well or wells:

7. Has the contamination been corrected?
 yes no have installed a system or filter to correct
8. The taste of the water is: good poor tastes like _____
9. The clarity of the water is: clear cloudy changes with increased use
10. The water causes discoloration of: sinks/toilets clothes never

Please complete both sides!

Your input is valuable!

- 11. The water has caused deterioration of: plumbing hot water heaters
 hot water heating systems filtering systems
- 12. Do you practice water conservation? always never occasionally
- 13. Do you purchase or obtain drinking water from another source? yes no
- 14. Has a well or wells ever gone dry? frequently occasionally never
- 15. How long has the problem existing? years (how many _____) occasionally
- 16. Do you do laundry at home? always occasionally never
- 17. Are you able to flush the toilet with each use? yes no
- 18. Have you ever had bulk delivery of water? always occasionally never
- 19. Are you concerned about fire protection? yes no

COMMENTS:

Please sign in appropriate area.

I am **in favor of** the development of a water district on my road.

Signature _____

Date _____

I am **against** the development of a water district on my road.

Signature _____

Date 9/20/18

11. The water has caused deterioration of: () plumbing () hot water heaters
 () hot water heating systems () filtering systems NONE
12. Do you practice water conservation? () always () never occasionally
13. Do you purchase or obtain drinking water from another source? () yes no
14. Has a well or wells ever gone dry? () frequently () occasionally never
15. How long has the problem existing? () years (how many _____) () occasionally
16. Do you do laundry at home? always () occasionally () never
17. Are you able to flush the toilet with each use? yes () no
18. Have you ever had bulk delivery of water? () always () occasionally never
19. Are you concerned about fire protection? () yes no

COMMENTS:

WHAT'S THE COST? AND OUR TAX
 INCREASE - -

Please sign in appropriate area.

I am **in favor of** the development of a water district on my road.

Signature _____

Date

9-5-18

I am **against** the development of a water district on my road.

Signature _____

Date _____

11. The water has caused deterioration of: () plumbing () hot water heaters
 () hot water heating systems () filtering systems
12. Do you practice water conservation? always () never () occasionally
13. Do you purchase or obtain drinking water from another source? yes () no
14. Has a well or wells ever gone dry? frequently () occasionally () never
15. How long has the problem existing? years (how many 20) () occasionally
16. Do you do laundry at home? always () occasionally () never
17. Are you able to flush the toilet with each use? () yes no
18. Have you ever had bulk delivery of water? () always occasionally () never
19. Are you concerned about fire protection? yes () no

COMMENTS:

Please sign in appropriate area.

I am **in favor of** the development of a water district on my road.

Signature _____

Date

9-4-18

I am **against** the development of a water district on my road.

Signature _____

Date _____

SURVEY FOR THE DEVELOPMENT OF PUBLIC WATER TOWN OF STERLING

Dear Neighbors:

The Town Board is trying to obtain information to determine if there is need for future water service areas. This survey was prepared to assist the engineers and the Town Board with the statistics needed. Please try to answer the questions below and then sign in the space indicating your choice (pro or con) to pursue funding for a public water system. If there is demonstrated support for a project, the Town will use the compiled results to apply for State and Federal Grant and Low Interest Loan money to construct an affordable project. The survey results will be utilized by the Engineers involved in order to recommend potential project areas to consider.



It is important to determine where problems exist in the area where you live and whether sufficient interest exists to secure outside funding for expanding the supply of public water. **This information does not commit you either way.**

Thank you!

Town Board

SURVEY QUESTIONS (Please use a pen)

1. Type of well: Drilled () Dug () Other
2. Number of wells: 1 () 2 () 3
3. Depth of well or wells: (128') feet () feet () feet
4. Recovery time of the well or wells is/ are:
 () good () poor () has changed
20 gallon min. if changed: () more () less
5. Has/Have the well/wells ever been contaminated? () yes no
6. If yes to #5, state type of contamination of well or wells:

7. Has the contamination been corrected?
() yes () no () have installed a system or filter to correct
8. The taste of the water is: () good () poor () tastes like _____
9. The clarity of the water is: () clear () cloudy () changes with increased use
10. The water causes discoloration of: () sinks/toilets () clothes () never

Please complete both sides!

Your input is valuable!

11. The water has caused deterioration of: () plumbing () hot water heaters
 () hot water heating systems () filtering systems
12. Do you practice water conservation? (X) always () never () occasionally
13. Do you purchase or obtain drinking water from another source? () yes (X) no
14. Has a well or wells ever gone dry? () frequently () occasionally (X) never
15. How long has the problem existing? () years (how many _____) () occasionally
16. Do you do laundry at home? (X) always () occasionally () never
17. Are you able to flush the toilet with each use? (X) yes () no
18. Have you ever had bulk delivery of water? () always () occasionally (X) never
19. Are you concerned about fire protection? () yes (X) no

COMMENTS: HAVE \$25000.00 INVESTED why would I WANT
 ANOTHER \$600.00 or \$700.00 PAYMENT

Please sign in appropriate area.

I am in favor of the development of a water district on my road.

Signature _____

Date _____

I am against the development of a water district on my road.

Signature _____

Date 8-29-18

11. The water has caused deterioration of: plumbing hot water heaters
 hot water heating systems filtering systems
12. Do you practice water conservation? always never occasionally
13. Do you purchase or obtain drinking water from another source? yes no
14. Has a well or wells ever gone dry? frequently occasionally never
15. How long has the problem existing? years (how many _____) occasionally
16. Do you do laundry at home? always occasionally never
17. Are you able to flush the toilet with each use? yes no
18. Have you ever had bulk delivery of water? always occasionally never
19. Are you concerned about fire protection? yes no

COMMENTS:

Please sign in appropriate area.

I am **in favor of** the development of a water district on my road.

Signature _____ Date 9/5/18

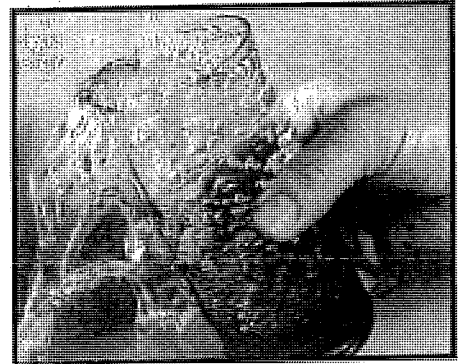
I am **against** the development of a water district on my road.

Signature _____ Date _____

SURVEY FOR THE DEVELOPMENT OF PUBLIC WATER TOWN OF STERLING

Dear Neighbors:

The Town Board is trying to obtain information to determine if there is need for future water service areas. This survey was prepared to assist the engineers and the Town Board with the statistics needed. Please try to answer the questions below and then sign in the space indicating your choice (pro or con) to pursue funding for a public water system. If there is demonstrated support for a project, the Town will use the compiled results to apply for State and Federal Grant and Low Interest Loan money to construct an affordable project. The survey results will be utilized by the Engineers involved in order to recommend potential project areas to consider.



It is important to determine where problems exist in the area where you live and whether sufficient interest exists to secure outside funding for expanding the supply of public water. **This information does not commit you either way.**

Thank you!

Town Board

Vacant

SURVEY QUESTIONS (Please use a pen)

1. Type of well: Drilled Dug Other
2. Number of wells: 1 2 3
3. Depth of well or wells: feet feet feet
4. Recovery time of the well or wells is/ are:
 good poor has changed
 if changed: more less
5. Has/Have the well/wells ever been contaminated? yes no
6. If yes to #5, state type of contamination of well or wells:

7. Has the contamination been corrected?
 yes no have installed a system or filter to correct
8. The taste of the water is: good poor tastes like _____
9. The clarity of the water is: clear cloudy changes with increased use
10. The water causes discoloration of: sinks/toilets clothes never

Please complete both sides!

Your input is valuable!

11. The water has caused deterioration of: () plumbing () hot water heaters
() hot water heating systems () filtering systems
12. Do you practice water conservation? () always () never () occasionally
13. Do you purchase or obtain drinking water from another source? () yes () no
14. Has a well or wells ever gone dry? () frequently () occasionally () never
15. How long has the problem existing? () years (how many _____) () occasionally
16. Do you do laundry at home? () always () occasionally () never
17. Are you able to flush the toilet with each use? () yes () no
18. Have you ever had bulk delivery of water? () always () occasionally () never
19. Are you concerned about fire protection? () yes () no

COMMENTS:

Please sign in appropriate area.

I am **in favor of** the development of a water district on my road.

Signature _____ Date 9/4/2018

I am **against** the development of a water district on my road.

Signature _____ Date _____

NAME _____

ADDRESS _____

PHONE _____

RECEIVED

SEP 06 2018

Capital Consultants, Inc., P.C.
C2AE

Your input is valuable!

Please complete both sides!

11. The water has caused deterioration of: () plumbing (X) hot water heaters
() hot water heating systems () filtering systems
12. Do you practice water conservation? () always () never (X) occasionally
13. Do you purchase or obtain drinking water from another source? () yes (X) no
14. Has a well or wells ever gone dry? () frequently (X) occasionally () never
15. How long has the problem existing? () years (how many _____) (X) occasionally
16. Do you do laundry at home? (X) always () occasionally () never
17. Are you able to flush the toilet with each use? (X) yes () no
18. Have you ever had bulk delivery of water? () always (X) occasionally () never
19. Are you concerned about fire protection? (X) yes () no

COMMENTS:

Please sign in appropriate area.

I am **in favor of** the development of a water district on my road.

Signature _____ Date 9/11/2018

I am **against** the development of a water district on my road.

Signature _____ Date _____

- 11. The water has caused deterioration of: plumbing hot water heaters
 hot water heating systems filtering systems
- 12. Do you practice water conservation? always never occasionally
- 13. Do you purchase or obtain drinking water from another source? yes no
- 14. Has a well or wells ever gone dry? frequently occasionally never
- 15. How long has the problem existing? years (how many _____) occasionally
- 16. Do you do laundry at home? always occasionally never
- 17. Are you able to flush the toilet with each use? yes no
- 18. Have you ever had bulk delivery of water? always occasionally never
- 19. Are you concerned about fire protection? yes no

COMMENTS:

Please sign in appropriate area.

I am **in favor of** the development of a water district on my road.

Signature _____ Date _____

I am **against** the development of a water district on my road.

Signature _____ Date 9-11-18

11. The water has caused deterioration of: plumbing hot water heaters
 hot water heating systems filtering systems
12. Do you practice water conservation? always never occasionally
13. Do you purchase or obtain drinking water from another source? yes no
14. Has a well or wells ever gone dry? frequently occasionally never
15. How long has the problem existing? years (how many _____) occasionally
16. Do you do laundry at home? always occasionally never
17. Are you able to flush the toilet with each use? yes no
18. Have you ever had bulk delivery of water? always occasionally never
19. Are you concerned about fire protection? yes no

COMMENTS:

Please sign in appropriate area.

I am **in favor of** the development of a water district on my road.

Signature _____

Date _____

I am **against** the development of a water district on my road.

Signature _____

Date 9-11-18

11. The water has caused deterioration of: () plumbing () hot water heaters
 () hot water heating systems () filtering systems
12. Do you practice water conservation? () always () never () occasionally
13. Do you purchase or obtain drinking water from another source? () yes () no
14. Has a well or wells ever gone dry? () frequently () occasionally () never
15. How long has the problem existing? () years (how many _____) () occasionally
16. Do you do laundry at home? () always () occasionally () never
17. Are you able to flush the toilet with each use? () yes () no
18. Have you ever had bulk delivery of water? () always () occasionally () never
19. Are you concerned about fire protection? () yes () no

COMMENTS:

Please sign in appropriate area.

I am **in favor of** the development of a water district on my road.

Signature _____

Date

9/11/2018

I am **against** the development of a water district on my road.

Signature _____

Date _____

SURVEY FOR THE DEVELOPMENT OF PUBLIC WATER TOWN OF STERLING

Dear Neighbors:

The Town Board is trying to obtain information to determine if there is need for future water service areas. This survey was prepared to assist the engineers and the Town Board with the statistics needed. Please try to answer the questions below and then sign in the space indicating your choice (pro or con) to pursue funding for a public water system. If there is demonstrated support for a project, the Town will use the compiled results to apply for State and Federal Grant and Low Interest Loan money to construct an affordable project. The survey results will be utilized by the Engineers involved in order to recommend potential project areas to consider.



It is important to determine where problems exist in the area where you live and whether sufficient interest exists to secure outside funding for expanding the supply of public water. **This information does not commit you either way.**

Thank you!

Town Board

SURVEY QUESTIONS (Please use a pen)

1. Type of well: Drilled () Dug () Other
2. Number of wells: 1 () 2 () 3
3. Depth of well or wells: (260) feet () feet () feet
4. Recovery time of the well or wells is/ are:
 good () poor () has changed
 if changed: () more () less
5. Has/Have the well/wells ever been contaminated? yes () no
6. If yes to #5, state type of contamination of well or wells:
 Sulfur

7. Has the contamination been corrected?
 () yes () no have installed a system or filter to correct
8. The taste of the water is: () good poor tastes like salt
9. The clarity of the water is: () clear cloudy () changes with increased use
10. The water causes discoloration of: sinks/toilets clothes () never

Please complete both sides!

Your input is valuable!

11. The water has caused deterioration of: plumbing hot water heaters
 hot water heating systems filtering systems
12. Do you practice water conservation? always never occasionally
13. Do you purchase or obtain drinking water from another source? yes no
14. Has a well or wells ever gone dry? frequently occasionally never
15. How long has the problem existing? years (how many 30) occasionally
16. Do you do laundry at home? always occasionally never
17. Are you able to flush the toilet with each use? yes no
18. Have you ever had bulk delivery of water? always occasionally never
19. Are you concerned about fire protection? yes no

COMMENTS:

Our well has salt/sulfur water. Not only does it
smell, but we keep having to replace our washer/drier,
dishwasher, pots/pans, silverware, all other metal items because
the water causes it to rust. Public water would be
very beneficial to McIntyre Road.

Please sign in appropriate area.

I am **in favor of** the development of a water district on my road.

Signature _____

Date 9/1/18

I am **against** the development of a water district on my road.

Signature _____

Date _____

SURVEY FOR THE DEVELOPMENT OF PUBLIC WATER TOWN OF STERLING

Dear Neighbors:

The Town Board is trying to obtain information to determine if there is need for future water service areas. This survey was prepared to assist the engineers and the Town Board with the statistics needed. Please try to answer the questions below and then sign in the space indicating your choice (pro or con) to pursue funding for a public water system. If there is demonstrated support for a project, the Town will use the compiled results to apply for State and Federal Grant and Low Interest Loan money to construct an affordable project. The survey results will be utilized by the Engineers involved in order to recommend potential project areas to consider.



It is important to determine where problems exist in the area where you live and whether sufficient interest exists to secure outside funding for expanding the supply of public water. **This information does not commit you either way.**

Thank you!

Town Board

SURVEY QUESTIONS (Please use a pen)

1. Type of well: () Drilled (X) Dug () Other
2. Number of wells: (X) 1 () 2 () 3
3. Depth of well or wells: (30?) feet () feet () feet
4. Recovery time of the well or wells is/ are:
 () good (X) poor () has changed
 if changed: () more () less
5. Has/Have the well/wells ever been contaminated? () yes (X) no
6. If yes to #5, state type of contamination of well or wells:

7. Has the contamination been corrected?
 () yes () no () have installed a system or filter to correct
8. The taste of the water is: (X) good () poor () tastes like _____
9. The clarity of the water is: (X) clear () cloudy () changes with increased use
10. The water causes discoloration of: (X) sinks/toilets () clothes () never

Please complete both sides!

Your input is valuable!

11. The water has caused deterioration of: () plumbing () hot water heaters
 () hot water heating systems () filtering systems
12. Do you practice water conservation? (X) always () never () occasionally
13. Do you purchase or obtain drinking water from another source? (X) yes () no
14. Has a well or wells ever gone dry? (X) frequently () occasionally () never
15. How long has the problem existing? (15⁺ Summer) years (how many _____) () occasionally
16. Do you do laundry at home? (X) always () occasionally () never
17. Are you able to flush the toilet with each use? (X) yes () no
18. Have you ever had bulk delivery of water? () always (X) occasionally () never
 Summer
19. Are you concerned about fire protection? (X) yes () no

COMMENTS: ,

Please sign in appropriate area.

I am **in favor of** the development of a water district on my road.

Signature _____

Date 9-1-18

I am **against** the development of a water district on my road.

Signature _____

Date _____

11. The water has caused deterioration of: plumbing hot water heaters
 hot water heating systems filtering systems
12. Do you practice water conservation? always never occasionally
13. Do you purchase or obtain drinking water from another source? yes no
14. Has a well or wells ever gone dry? frequently occasionally never
15. How long has the problem existing? years (how many _____) occasionally
16. Do you do laundry at home? always occasionally never
17. Are you able to flush the toilet with each use? yes no
18. Have you ever had bulk delivery of water? always occasionally never
19. Are you concerned about fire protection? yes no

COMMENTS:

Please sign in appropriate area.

I am **in favor of** the development of a water district on my road.

Signature _____

Date _____

9-1-18

I am **against** the development of a water district on my road.

Signature _____

Date _____

SURVEY FOR THE DEVELOPMENT OF PUBLIC WATER TOWN OF STERLING

Dear Neighbors:

The Town Board is trying to obtain information to determine if there is need for future water service areas. This survey was prepared to assist the engineers and the Town Board with the statistics needed. Please try to answer the questions below and then sign in the space indicating your choice (pro or con) to pursue funding for a public water system. If there is demonstrated support for a project, the Town will use the compiled results to apply for State and Federal Grant and Low Interest Loan money to construct an affordable project. The survey results will be utilized by the Engineers involved in order to recommend potential project areas to consider.



It is important to determine where problems exist in the area where you live and whether sufficient interest exists to secure outside funding for expanding the supply of public water. **This information does not commit you either way.**

Thank you!

Town Board

VACANT

SURVEY QUESTIONS (Please use a pen)

1. Type of well: Drilled Dug Other
2. Number of wells: 1 2 3
3. Depth of well or wells: feet feet feet
4. Recovery time of the well or wells is/ are:
 good poor has changed
 if changed: more less
5. Has/Have the well/wells ever been contaminated? yes no
6. If yes to #5, state type of contamination of well or wells:

7. Has the contamination been corrected?
 yes no have installed a system or filter to correct
8. The taste of the water is: good poor tastes like _____
9. The clarity of the water is: clear cloudy changes with increased use
10. The water causes discoloration of: sinks/toilets clothes never

Please complete both sides!

Your input is valuable!

- 11. The water has caused deterioration of: plumbing hot water heaters
 hot water heating systems filtering systems
- 12. Do you practice water conservation? always never occasionally
- 13. Do you purchase or obtain drinking water from another source? yes no
- 14. Has a well or wells ever gone dry? frequently occasionally never
- 15. How long has the problem existing? years (how many _____) occasionally
- 16. Do you do laundry at home? always occasionally never
- 17. Are you able to flush the toilet with each use? yes no
- 18. Have you ever had bulk delivery of water? always occasionally never
- 19. Are you concerned about fire protection? yes no

COMMENTS:

Please sign in appropriate area.

I am **in favor of** the development of a water district on my road.

Signature _____ Date 9-1-18

I am **against** the development of a water district on my road.

Signature _____ Date _____

- 11. The water has caused deterioration of: () plumbing () hot water heaters
() hot water heating systems () filtering systems
- 12. Do you practice water conservation? () always () never (✓) occasionally
- 13. Do you purchase or obtain drinking water from another source? (✓) yes () no
- 14. Has a well or wells ever gone dry? () frequently () occasionally (✓) never
- 15. How long has the problem existing? () years (how many _____) () occasionally
- 16. Do you do laundry at home? (✓) always () occasionally () never
- 17. Are you able to flush the toilet with each use? (✓) yes () no
- 18. Have you ever had bulk delivery of water? () always () occasionally (✓) never
- 19. Are you concerned about fire protection? (✓) yes () no

COMMENTS:

Please sign in appropriate area.

I am **in favor of** the development of a water district on my road. ✓

Signature _____ Date 09-04-2018

I am **against** the development of a water district on my road. ✓

Signature _____ Date _____

NAME _____

ADDRESS _____

PHONE _____

RECEIVED

SEP 07 2018

Capital Consultants, Inc., P C

C226

Your input is valuable!

Please complete both sides!

- 11. The water has caused deterioration of: plumbing hot water heaters
 hot water heating systems filtering systems
- 12. Do you practice water conservation? always () never () occasionally
- 13. Do you purchase or obtain drinking water from another source? () yes no
- 14. Has a well or wells ever gone dry? () frequently () occasionally never
- 15. How long has the problem existing? years (how many 12) () occasionally
- 16. Do you do laundry at home? () always () occasionally never
- 17. Are you able to flush the toilet with each use? yes () no
- 18. Have you ever had bulk delivery of water? () always occasionally () never
- 19. Are you concerned about fire protection? yes () no

COMMENTS: We think it's in the long term best interest of the community to add this area to your public water plan.

Please sign in appropriate area.

I am **in favor of** the development of a water district on my road.

Signature _____ Date 8-6-18

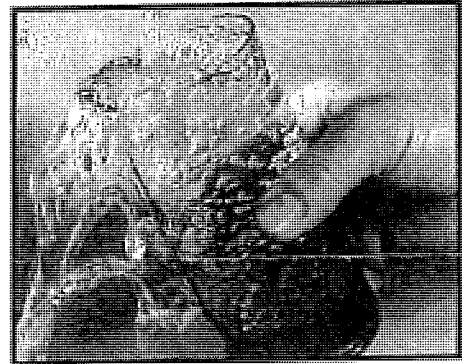
I am **against** the development of a water district on my road.

Signature _____ Date _____

SURVEY FOR THE DEVELOPMENT OF PUBLIC WATER TOWN OF STERLING

Dear Neighbors:

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Thank you!

Town Board

SURVEY QUESTIONS (Please use a pen)

1. Type of well: Drilled () Dug () Other
2. Number of wells: 1 () 2 () 3
3. Depth of well or wells: 20 feet () feet () feet
4. Recovery time of the well or wells is/ are:
 good () poor () has changed
 if changed: () more () less
5. Has/Have the well/wells ever been contaminated? () yes no
6. If yes to #5, state type of contamination of well or wells:

7. Has the contamination been corrected?
 () yes () no () have installed a system or filter to correct
8. The taste of the water is: good () poor () tastes like _____
9. The clarity of the water is: clear () cloudy () changes with increased use
10. The water causes discoloration of: () sinks/toilets () clothes never

Please complete both sides!

Your input is valuable!

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12. Do you practice water conservation? always () never () occasionally
13. Do you purchase or obtain drinking water from another source? () yes no
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15. How long has the problem existing? years (how many 12) () occasionally
16. Do you do laundry at home? () always () occasionally never
17. Are you able to flush the toilet with each use? yes () no
18. Have you ever had bulk delivery of water? () always occasionally () never
19. Are you concerned about fire protection? yes () no

COMMENTS:

We think its in the long term best
interest of the community to add this
area to your public water plan

Please sign in appropriate area.

I am **in favor of** the development of a water district on my road.

Signature _____

Date 8-6-18

I am **against** the development of a water district on my road.

Signature _____

Date _____

11. The water has caused deterioration of: plumbing hot water heaters
 hot water heating systems filtering systems
12. Do you practice water conservation? always never occasionally
13. Do you purchase or obtain drinking water from another source? yes no
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15. How long has the problem existing? years (how many _____) occasionally
16. Do you do laundry at home? always occasionally never
17. Are you able to flush the toilet with each use? yes no
18. Have you ever had bulk delivery of water? always occasionally never
19. Are you concerned about fire protection? yes no

COMMENTS:

Please sign in appropriate area.

I am in favor of the development of ~~a water~~ district on my road.

Signature

Date 9-6-18

I am against the development of a water district on my road.

Signature _____

Date _____

NAME _____

SURVEY FOR THE DEVELOPMENT OF PUBLIC WATER TOWN OF STERLING

Dear Neighbors:

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Thank you!

Town Board

SURVEY QUESTIONS (Please use a pen)

1. Type of well: () Drilled (X) Dug () Other
2. Number of wells: (X) 1 () 2 () 3
3. Depth of well or wells: () 2) feet () feet () feet
4. Recovery time of the well or wells is/ are:
 (X) good () poor () has changed
 if changed: () more () less
5. Has/Have the well/wells ever been contaminated? () yes (X) no
6. If yes to #5, state type of contamination of well or wells:

7. Has the contamination been corrected?
 () yes () no () have installed a system or filter to correct
8. The taste of the water is: (X) good () poor () tastes like _____
9. The clarity of the water is: (X) clear () cloudy () changes with increased use
10. The water causes discoloration of: () sinks/toilets () clothes (X) never

Please complete both sides!

Your input is valuable!

11. The water has caused deterioration of: () plumbing () hot water heaters
 () hot water heating systems () filtering systems
12. Do you practice water conservation? () always (X) never () occasionally
13. Do you purchase or obtain drinking water from another source? () yes (X) no
14. Has a well or wells ever gone dry? () frequently () occasionally (X) never
15. How long has the problem existing? () years (how many _____) () occasionally
16. Do you do laundry at home? (X) always () occasionally () never
17. Are you able to flush the toilet with each use? (X) yes () no
18. Have you ever had bulk delivery of water? () always () occasionally (X) never
19. Are you concerned about fire protection? () yes (X) no

COMMENTS: ,

Please sign in appropriate area.

I am in favor of the development of a water district on my road.

Signature _____

Date 9-6-18

I am against the development of a water district on my road.

Signature _____

Date _____

- 11. The water has caused deterioration of: () plumbing () hot water heaters
() hot water heating systems () filtering systems
- 12. Do you practice water conservation? () always (X) never () occasionally
- 13. Do you purchase or obtain drinking water from another source? () yes (X) no
- 14. Has a well or wells ever gone dry? () frequently () occasionally (X) never
- 15. How long has the problem existing? () years (how many _____) () occasionally
- 16. Do you do laundry at home? (X) always () occasionally () never
- 17. Are you able to flush the toilet with each use? (X) yes () no
- 18. Have you ever had bulk delivery of water? () always () occasionally (X) never
- 19. Are you concerned about fire protection? () yes (X) no

COMMENTS: ' _____

Please sign in appropriate area.

I am in favor of the development of a water district on my road.

Signature _____ Date 9-6-17

I am against the development of a water district on my road.

Signature _____ Date _____

SURVEY FOR THE DEVELOPMENT OF PUBLIC WATER TOWN OF STERLING

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Thank you!

Town Board

VACANT

SURVEY QUESTIONS (Please use a pen)

1. Type of well: Drilled Dug Other
2. Number of wells: 1 2 3
3. Depth of well or wells: feet feet feet
4. Recovery time of the well or wells is/ are:
 good poor has changed
 if changed: more less
5. Has/Have the well/wells ever been contaminated? yes no
6. If yes to #5, state type of contamination of well or wells:

7. Has the contamination been corrected?
 yes no have installed a system or filter to correct
8. The taste of the water is: good poor tastes like _____
9. The clarity of the water is: clear cloudy changes with increased use
10. The water causes discoloration of: sinks/toilets clothes never

Please complete both sides!

Your input is valuable!

11. The water has caused deterioration of: plumbing hot water heaters
 hot water heating systems filtering systems
12. Do you practice water conservation? always never occasionally
13. Do you purchase or obtain drinking water from another source? yes no
14. Has a well or wells ever gone dry? frequently occasionally never
15. How long has the problem existing? years (how many _____) occasionally
16. Do you do laundry at home? always occasionally never
17. Are you able to flush the toilet with each use? yes no
18. Have you ever had bulk delivery of water? always occasionally never
19. Are you concerned about fire protection? yes no

COMMENTS:

Please sign in appropriate area.

I am **in favor of** the development of a water district on my road.

Signature _____ Date _____

I am **against** the development of a water district on my road.

Signature _____ Date 9/17/18

- 11. The water has caused deterioration of: () plumbing hot water heaters
() hot water heating systems () filtering systems
- 12. Do you practice water conservation? always () never () occasionally
- 13. Do you purchase or obtain drinking water from another source? yes () no
- 14. Has a well or wells ever gone dry? () frequently occasionally () never
- 15. How long has the problem existing? (10) years (how many _____) () occasionally
- 16. Do you do laundry at home? always () occasionally () never
- 17. Are you able to flush the toilet with each use? yes () no
- 18. Have you ever had bulk delivery of water? always () occasionally () never
- 19. Are you concerned about fire protection? yes () no

COMMENTS:

Summer time I have water delivered once a week
 \$65.00 for 1,200 gallons of water My well is stone tile
 very old can't wait for public water

Please sign in appropriate area.

I am **in favor of** the development of a water district on my road.

Signature _____ Date 9-2-18

I am **against** the development of a water district on my road.

Signature _____ Date _____

NAME _____

ADDRESS _____

PHONE _____

RECEIVED

SEP 06 2018

Capital Consultants, Inc., P.C.
 C288

- 11. The water has caused deterioration of: plumbing hot water heaters
 hot water heating systems filtering systems
- 12. Do you practice water conservation? always never occasionally
- 13. Do you purchase or obtain drinking water from another source? yes no
- 14. Has a well or wells ever gone dry? frequently occasionally never
- 15. How long has the problem existing? years (how many 40) occasionally
- 16. Do you do laundry at home? always occasionally never
- 17. Are you able to flush the toilet with each use? yes no
- 18. Have you ever had bulk delivery of water? always occasionally never
- 19. Are you concerned about fire protection? yes no

COMMENTS: ,

We need a public water system in Sterling, water is hard to find

Please sign in appropriate area.

I am **in favor of** the development of a water district, on my road.

Signature _____ Date 9/1/18

I am **against** the development of a water district on my road.

Signature _____ Date _____

- 11. The water has caused deterioration of: () plumbing () hot water heaters
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- 12. Do you practice water conservation? () always () never (X) occasionally
- 13. Do you purchase or obtain drinking water from another source? () yes (X) no
- 14. Has a well or wells ever gone dry? () frequently (X) occasionally () never
- 15. How long has the problem existing? () years (how many _____) (X) occasionally
- 16. Do you do laundry at home? (X) always () occasionally () never
- 17. Are you able to flush the toilet with each use? (X) yes () no
- 18. Have you ever had bulk delivery of water? () always (X) occasionally () never
- 19. Are you concerned about fire protection? (X) yes () no

COMMENTS:

Please sign in appropriate area.

I am **in favor of** the development of a water district on my road.

Signature _____ Date 9-1-18

I am **against** the development of a water district on my road.

Signature _____ Date _____

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 () hot water heating systems () filtering systems
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14. Has a well or wells ever gone dry? () frequently () occasionally (X) never
15. How long has the problem existing? () years (how many _____) () occasionally
16. Do you do laundry at home? (X) always () occasionally () never
17. Are you able to flush the toilet with each use? (X) yes () no
18. Have you ever had bulk delivery of water? () always () occasionally (X) never
19. Are you concerned about fire protection? () yes (X) no

COMMENTS:

Please sign in appropriate area.

I am **in favor of** the development of a water district on my road.

Signature _____ Date _____

I am **against** the development of a water district on my road.

Signature _____ Date 9.5.18

SURVEY FOR THE DEVELOPMENT OF PUBLIC WATER TOWN OF STERLING

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Thank you!

Town Board

SURVEY QUESTIONS (Please use a pen)

1. Type of well: () Drilled Dug () Other
2. Number of wells: 1 () 2 () 3
3. Depth of well or wells: () feet (20) feet () feet
4. Recovery time of the well or wells is/ are:
 good () poor () has changed
 if changed: () more () less
5. Has/Have the well/wells ever been contaminated? () yes no
6. If yes to #5, state type of contamination of well or wells:

7. Has the contamination been corrected?
 () yes () no () have installed a system or filter to correct
8. The taste of the water is: good () poor () tastes like _____
9. The clarity of the water is: clear () cloudy () changes with increased use
10. The water causes discoloration of: () sinks/toilets () clothes never

Please complete both sides!

Your input is valuable!

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16. Do you do laundry at home? always () occasionally () never
17. Are you able to flush the toilet with each use? yes () no
18. Have you ever had bulk delivery of water? () always () occasionally never
19. Are you concerned about fire protection? () yes no

COMMENTS: ,

Please sign in appropriate area.

I am **in favor of** the development of a water district on my road.

Signature _____ Date _____

I am **against** the development of a water district on my road.

Signature _____ Date 9/9/18

11. The water has caused deterioration of: plumbing hot water heaters
 hot water heating systems filtering systems
12. Do you practice water conservation? always never occasionally
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18. Have you ever had bulk delivery of water? always occasionally never
19. Are you concerned about fire protection? yes no

COMMENTS:

Please sign in appropriate area.

I am **in favor of** the development of a water district on my road.

Signature _____

Date 9/15/18

I am **against** the development of a water district on my road.

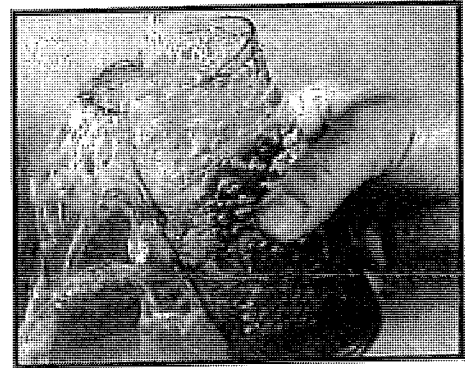
Signature _____

Date _____

SURVEY FOR THE DEVELOPMENT OF PUBLIC WATER TOWN OF STERLING

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Thank you!

Town Board

V. Acant
SURVEY QUESTIONS
(Please use a pen)

1. Type of well: Drilled Dug Other
2. Number of wells: 1 2 3
3. Depth of well or wells: feet feet feet
4. Recovery time of the well or wells is/ are:
 good poor has changed
 if changed: more less
5. Has/Have the well/wells ever been contaminated? yes no
6. If yes to #5, state type of contamination of well or wells:

7. Has the contamination been corrected?
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8. The taste of the water is: good poor tastes like _____
9. The clarity of the water is: clear cloudy changes with increased use
10. The water causes discoloration of: sinks/toilets clothes never

Please complete both sides!

Your input is valuable!

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16. Do you do laundry at home? always occasionally never
17. Are you able to flush the toilet with each use? yes no
18. Have you ever had bulk delivery of water? always occasionally never
19. Are you concerned about fire protection? yes no

COMMENTS:

Please sign in appropriate area.

I am **in favor of** the development of a water district on my road.

Signature _____

Date 9/15/18

I am **against** the development of a water district on my road.

Signature _____

Date _____

SURVEY FOR THE DEVELOPMENT OF PUBLIC WATER TOWN OF STERLING

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17. Are you able to flush the toilet with each use? yes no
18. Have you ever had bulk delivery of water? always occasionally never
19. Are you concerned about fire protection? yes no

COMMENTS: /

Please sign in appropriate area.

I am **in favor of** the development of a water district on my road.

Signature _____ Date 9/15/18

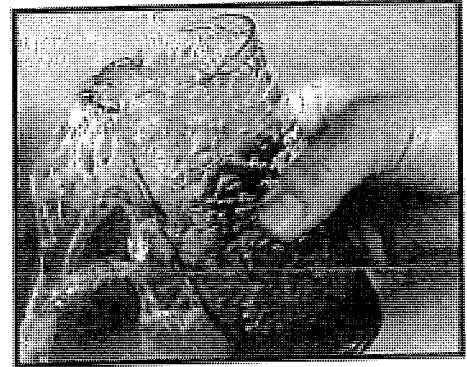
I am **against** the development of a water district on my road.

Signature _____ Date _____

SURVEY FOR THE DEVELOPMENT OF PUBLIC WATER TOWN OF STERLING

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Town Board

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Please complete both sides!

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15. How long has the problem existing? () years (how many _____) () occasionally
16. Do you do laundry at home? () always () occasionally () never
17. Are you able to flush the toilet with each use? () yes () no
18. Have you ever had bulk delivery of water? () always occasionally () never
19. Are you concerned about fire protection? () yes () no

COMMENTS:

Please sign in appropriate area.

I am **in favor of** the development of a water district on my road.

Signature _____ // _____

Date 9/15/18

I am **against** the development of a water district on my road.

Signature _____

Date _____

- 11. The water has caused deterioration of: plumbing hot water heaters
 hot water heating systems filtering systems
- 12. Do you practice water conservation? always never occasionally
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- 14. Has a well or wells ever gone dry? frequently occasionally never
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- 16. Do you do laundry at home? always occasionally never
- 17. Are you able to flush the toilet with each use? yes no
- 18. Have you ever had bulk delivery of water? always occasionally never
- 19. Are you concerned about fire protection? yes no

COMMENTS:

Please sign in appropriate area.

I am **in favor of** the development of a water district on my road.

Signature _____ Date 9/15/18

I am **against** the development of a water district on my road.

Signature _____ Date _____

11. The water has caused deterioration of: plumbing hot water heaters
 hot water heating systems filtering systems
12. Do you practice water conservation? always never occasionally
13. Do you purchase or obtain drinking water from another source? yes no
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15. How long has the problem existing? years (how many _____) occasionally
16. Do you do laundry at home? always occasionally never
17. Are you able to flush the toilet with each use? yes no
18. Have you ever had bulk delivery of water? always occasionally never
19. Are you concerned about fire protection? yes no

COMMENTS: ,

Please sign in appropriate area.

I am in favor of the development of a water district on my road.	
Signature _____	Date <u>09/04/18</u>

I am against the development of a water district on my road.	
Signature _____	Date _____

154

SURVEY FOR THE DEVELOPMENT OF PUBLIC WATER TOWN OF STERLING

Dear Neighbors:

The Town Board is trying to obtain information to determine if there is need for future water service areas. This survey was prepared to assist the engineers and the Town Board with the statistics needed. Please try to answer the questions below and then sign in the space indicating your choice (pro or con) to pursue funding for a public water system. If there is demonstrated support for a project, the Town will use the compiled results to apply for State and Federal Grant and Low Interest Loan money to construct an affordable project. The survey results will be utilized by the Engineers involved in order to recommend potential project areas to consider.



It is important to determine where problems exist in the area where you live and whether sufficient interest exists to secure outside funding for expanding the supply of public water. **This information does not commit you either way.**

Thank you!

Town Board

SURVEY QUESTIONS (Please use a pen)

VACANT

1. Type of well: Drilled Dug Other
2. Number of wells: 1 2 3
3. Depth of well or wells: feet feet feet
4. Recovery time of the well or wells is/ are:
 good poor has changed
if changed: more less
5. Has/Have the well/wells ever been contaminated? yes no
6. If yes to #5, state type of contamination of well or wells:

7. Has the contamination been corrected?
 yes no have installed a system or filter to correct
8. The taste of the water is: good poor tastes like _____
9. The clarity of the water is: clear cloudy changes with increased use
10. The water causes discoloration of: sinks/toilets clothes never

Please complete both sides!

Your input is valuable!

- 11. The water has caused deterioration of: () plumbing () hot water heaters
() hot water heating systems () filtering systems
- 12. Do you practice water conservation? () always () never () occasionally
- 13. Do you purchase or obtain drinking water from another source? () yes () no
- 14. Has a well or wells ever gone dry? () frequently () occasionally () never
- 15. How long has the problem existing? () years (how many _____) () occasionally
- 16. Do you do laundry at home? () always () occasionally () never
- 17. Are you able to flush the toilet with each use? () yes () no
- 18. Have you ever had bulk delivery of water? () always () occasionally () never
- 19. Are you concerned about fire protection? () yes () no

COMMENTS:

Lack of city water is the reason we have not yet built on the property.

Please sign in appropriate area.

I am **in favor of** the development of a water district on my road.

Signature _____ Date 4 Sept 2018

I am **against** the development of a water district on my road.

Signature _____ Date _____

- 11. The water has caused deterioration of: () plumbing () hot water heaters
() hot water heating systems () filtering systems
- 12. Do you practice water conservation? () always () never () occasionally
- 13. Do you purchase or obtain drinking water from another source? () yes () no
- 14. Has a well or wells ever gone dry? () frequently () occasionally () never
- 15. How long has the problem existing? () years (how many _____) () occasionally
- 16. Do you do laundry at home? () always () occasionally () never
- 17. Are you able to flush the toilet with each use? () yes () no
- 18. Have you ever had bulk delivery of water? () always () occasionally () never
- 19. Are you concerned about fire protection? () yes () no

COMMENTS:

Please sign in appropriate area.

I am **in favor of** the development of a water district on my road.

Signature _____ Date _____

I am **against** the development of a water district on my road.

Signature _____ Date 9/11/18

11. The water has caused deterioration of: plumbing hot water heaters
 hot water heating systems filtering systems
12. Do you practice water conservation? always never occasionally
13. Do you purchase or obtain drinking water from another source? yes no
14. Has a well or wells ever gone dry? frequently occasionally never
15. How long has the problem existing? years (how many _____) occasionally
16. Do you do laundry at home? always occasionally never
17. Are you able to flush the toilet with each use? yes no
18. Have you ever had bulk delivery of water? always occasionally never
19. Are you concerned about fire protection? yes no

COMMENTS:

Please sign in appropriate area.

I am **in favor of** the development of a water district on my road.

Signature _____ Date _____

I am **against** the development of a water district on my road.

Signature _____ Date _____

- 11. The water has caused deterioration of: plumbing hot water heaters
 hot water heating systems filtering systems
- 12. Do you practice water conservation? always never occasionally
- 13. Do you purchase or obtain drinking water from another source? yes no
- 14. Has a well or wells ever gone dry? frequently occasionally never
- 15. How long has the problem existing? years (how many _____) occasionally
- 16. Do you do laundry at home? always occasionally never
- 17. Are you able to flush the toilet with each use? yes no
- 18. Have you ever had bulk delivery of water? always occasionally never
- 19. Are you concerned about fire protection? yes no

COMMENTS:

Please sign in appropriate area.

I am **in favor of** the development of a water district on my road.

Signature _____

Date 9/4/18

I am **against** the development of a water district on my road.

Signature _____

Date _____

- 11. The water has caused deterioration of: () plumbing () hot water heaters
() hot water heating systems () filtering systems
- 12. Do you practice water conservation? (~~X~~) always () never () occasionally
- 13. Do you purchase or obtain drinking water from another source? () yes (~~X~~) no
- 14. Has a well or wells ever gone dry? () frequently () occasionally (~~X~~) never
- 15. How long has the problem existing? () years (how many _____) () occasionally
- 16. Do you do laundry at home? (~~X~~) always () occasionally () never
- 17. Are you able to flush the toilet with each use? (~~X~~) yes () no
- 18. Have you ever had bulk delivery of water? () always () occasionally (~~X~~) never
- 19. Are you concerned about fire protection? (~~X~~) yes () no

COMMENTS:

Please sign in appropriate area.

I am in favor of the development of a water district on my road.	
Signature _____	Date _____

I am against the development of a water district on my road.	
Signature _____	Date <u>9/1/18</u>

- 11. The water has caused deterioration of: () plumbing () hot water heaters *NA*
() hot water heating systems () filtering systems
- 12. Do you practice water conservation? () always () never () occasionally
- 13. Do you purchase or obtain drinking water from another source? () yes () no
- 14. Has a well or wells ever gone dry? () frequently () occasionally () never
- 15. How long has the problem existing? () years (how many _____) () occasionally
- 16. Do you do laundry at home? () always () occasionally () never
- 17. Are you able to flush the toilet with each use? () yes () no
- 18. Have you ever had bulk delivery of water? () always () occasionally () never
- 19. Are you concerned about fire protection? () yes () no

COMMENTS:

Concerned about cost

Please sign in appropriate area.

I am **in favor of** the development of a water district on my road.

Signature _____ Date _____

I am **against** the development of a water district on my road.

Signature _____ Date _____

11. The water has caused deterioration of: () plumbing () hot water heaters
() hot water heating systems () filtering systems
12. Do you practice water conservation? () always () never () occasionally
13. Do you purchase or obtain drinking water from another source? () yes () no
14. Has a well or wells ever gone dry? () frequently () occasionally () never
15. How long has the problem existing? () years (how many _____) () occasionally
16. Do you do laundry at home? () always () occasionally () never
17. Are you able to flush the toilet with each use? () yes () no
18. Have you ever had bulk delivery of water? () always () occasionally () never
19. Are you concerned about fire protection? () yes () no

COMMENTS:

Don't have an opinion at this point. Our water supply is adequate. Unless water, sewer & gas are added there isn't significant value added to the area for growth.

Please sign in appropriate area.

I am **in favor of** the development of a water district on my road.

Signature _____ Date _____

I am **against** the development of a water district on my road.

Signature _____ Date _____

NAME _____

ADDRESS _____

PHONE _____

RECEIVED

7.00-1-30.2 SEP 07 2018
Douglas Scott
Capital Consultants, Inc., P.C.
C220

Please complete both sides!

Your input is valuable!

11. The water has caused deterioration of: plumbing hot water heaters
 hot water heating systems filtering systems
12. Do you practice water conservation? always never occasionally
13. Do you purchase or obtain drinking water from another source? yes no
14. Has a well or wells ever gone dry? frequently occasionally never
15. How long has the problem existing? years (how many _____) occasionally
16. Do you do laundry at home? always occasionally never
17. Are you able to flush the toilet with each use? yes no
18. Have you ever had bulk delivery of water? always occasionally never
19. Are you concerned about fire protection? yes no

COMMENTS:

John DiBello is deceased

Please sign in appropriate area.

I am in favor of the development of a water district on my road.

Signature _____ Date 9/5/2018

I am against the development of a water district on my road.

Signature _____ Date _____

11. The water has caused deterioration of: () plumbing (X) hot water heaters
 () hot water heating systems () filtering systems
12. Do you practice water conservation? (X) always () never () occasionally
13. Do you purchase or obtain drinking water from another source? () yes (X) no
14. Has a well or wells ever gone dry? () frequently (X) occasionally () never
15. How long has the problem existing? (X) years (how many 40+) () occasionally
16. Do you do laundry at home? () always (X) occasionally () never
17. Are you able to flush the toilet with each use? (X) yes () no
18. Have you ever had bulk delivery of water? () always (X) occasionally () never
19. Are you concerned about fire protection? (X) yes () no

COMMENTS:

I have a cistern that is used to ~~store~~ hold water pumped from the well. When the well goes dry from lack of rain I have to obtain water from an outside source, then I need to conserve water. I can't water my garden or other plants.

Please sign in appropriate area.

I am **in favor of** the development of a water district on my road.

Signature _____

Date Sept. 7, 2018

I am **against** the development of a water district on my road.

Signature _____

Date _____

11. The water has caused deterioration of: plumbing hot water heaters
 hot-water heating systems filtering systems
12. Do you practice water conservation? always never occasionally
13. Do you purchase or obtain drinking water from another source? yes no
14. Has a well or wells ever gone dry? frequently occasionally never
15. How long has the problem existing? years (how many 20 yrs) occasionally
16. Do you do laundry at home? always occasionally never
17. Are you able to flush the toilet with each use? yes no
18. Have you ever had bulk delivery of water? always occasionally never
19. Are you concerned about fire protection? yes no

COMMENTS: '

would like public water
Well is unreliable and often runs dry
which is problematic for a family of five

Please sign in appropriate area.

I am **in favor of** the development of a water district on my road.

Signature _____

Date

8/31/2018

I am **against** the development of a water district on my road.

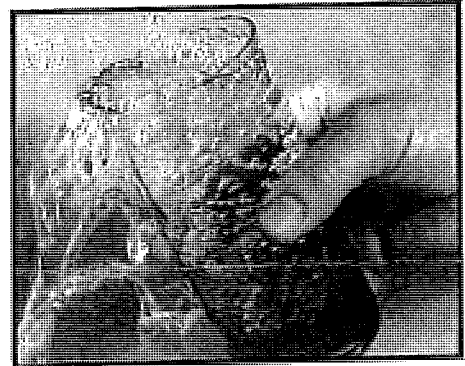
Signature _____

Date _____

SURVEY FOR THE DEVELOPMENT OF PUBLIC WATER TOWN OF STERLING

Dear Neighbors:

The Town Board is trying to obtain information to determine if there is need for future water service areas. This survey was prepared to assist the engineers and the Town Board with the statistics needed. Please try to answer the questions below and then sign in the space indicating your choice (pro or con) to pursue funding for a public water system. If there is demonstrated support for a project, the Town will use the compiled results to apply for State and Federal Grant and Low Interest Loan money to construct an affordable project. The survey results will be utilized by the Engineers involved in order to recommend potential project areas to consider.



It is important to determine where problems exist in the area where you live and whether sufficient interest exists to secure outside funding for expanding the supply of public water. **This information does not commit you either way.**

Thank you!

Town Board

SURVEY QUESTIONS (Please use a pen)

1. Type of well: () Drilled (X) Dug () Other
2. Number of wells: (X) 1 () 2 () 3
3. Depth of well or wells: (20) feet () feet () feet
4. Recovery time of the well or wells is/ are:
 () good (X) poor () has changed
 if changed: () more () less
 Between
5. Has/Have the well/wells ever been contaminated? () yes (X) no *not to my knowledge*
6. If yes to #5, state type of contamination of well or wells:

7. Has the contamination been corrected?
 () yes () no () have installed a system or filter to correct
8. The taste of the water is: () good () poor (X) tastes like *Slightly metallic*
9. The clarity of the water is: (X) clear () cloudy () changes with increased use
10. The water causes discoloration of: () sinks/toilets () clothes (X) never

Please complete both sides!

Your input is valuable!

11. The water has caused deterioration of: plumbing hot water heaters
 hot water heating systems filtering systems
12. Do you practice water conservation? always never occasionally
13. Do you purchase or obtain drinking water from another source? yes no
~~not regularly~~ - 1 or 2 x
~~every other~~ ~~days~~
14. Has a well or wells ever gone dry? frequently occasionally never
15. How long has the problem existing? years (how many _____) occasionally
16. Do you do laundry at home? always occasionally never
17. Are you able to flush the toilet with each use? yes no
18. Have you ever had bulk delivery of water? always occasionally never
19. Are you concerned about fire protection? yes no

COMMENTS: The last few summers have been dry. Have purchased
loads of water to put in the well in the summer.
and using a
water softener and iron filter but have shut them down
because they use a lot of water to flush their systems.

Please sign in appropriate area.

I am **in favor of** the development of a water district on my road.

Signature _____

Date 9.5.18

I am **against** the development of a water district on my road.

Signature _____

Date _____

SURVEY FOR THE DEVELOPMENT OF PUBLIC WATER TOWN OF STERLING

Dear Neighbors:

The Town Board is trying to obtain information to determine if there is need for future water service areas. This survey was prepared to assist the engineers and the Town Board with the statistics needed. Please try to answer the questions below and then sign in the space indicating your choice (pro or con) to pursue funding for a public water system. If there is demonstrated support for a project, the Town will use the compiled results to apply for State and Federal Grant and Low Interest Loan money to construct an affordable project. The survey results will be utilized by the Engineers involved in order to recommend potential project areas to consider.



It is important to determine where problems exist in the area where you live and whether sufficient interest exists to secure outside funding for expanding the supply of public water. **This information does not commit you either way.**

Thank you!

Town Board

SURVEY QUESTIONS (Please use a pen)

1. Type of well: () Drilled () Dug () Other
2. Number of wells: () 1 () 2 () 3
3. Depth of well or wells: (20) feet () feet () feet
4. Recovery time of the well or wells is/ are: *- recovery is less + less*
 () good () poor () has changed
 if changed: () more () less
5. Has/Have the well/wells ever been contaminated? () yes () no
6. If yes to #5, state type of contamination of well or wells:

7. Has the contamination been corrected?
 () yes () no () have installed a system or filter to correct
8. The taste of the water is: () good () poor () tastes like sulfur
9. The clarity of the water is: () clear () cloudy () changes with increased use
10. The water causes discoloration of: () sinks/toilets () clothes () never

- 11. The water has caused deterioration of: () plumbing () hot water heaters
() hot water heating systems () filtering systems
- 12. Do you practice water conservation? () always () never () occasionally
- 13. Do you purchase or obtain drinking water from another source? () yes () no
- 14. Has a well or wells ever gone dry? () frequently () occasionally () never
- 15. How long has the problem existing? () years (how many 15) () occasionally
- 16. Do you do laundry at home? () always () occasionally () never
- 17. Are you able to flush the toilet with each use? () yes () no
- 18. Have you ever had bulk delivery of water? () always () occasionally () never
- 19. Are you concerned about fire protection? () yes () no

COMMENTS: This is an urgent request for water
and should have been done years ago.
We have to get water delivered regularly weekly
in the summer.

Please sign in appropriate area.

I am **in favor of** the development of a water district on my road.

Signature _____ Date 9-3-18

I am **against** the development of a water district on my road.

Signature _____ Date _____

11. The water has caused deterioration of: () plumbing () hot water heaters
 () hot water heating systems () filtering systems
12. Do you practice water conservation? () always () never () occasionally
13. Do you purchase or obtain drinking water from another source? () yes () no
14. Has a well or wells ever gone dry? () frequently () occasionally () never
15. How long has the problem existing? () years (how many _____) () occasionally
16. Do you do laundry at home? () always () occasionally () never
17. Are you able to flush the toilet with each use? () yes () no
18. Have you ever had bulk delivery of water? () always () occasionally () never
19. Are you concerned about fire protection? () yes () no

COMMENTS:

Please sign in appropriate area.

I am in favor of the development of a water district on my road.

Signature _____ Date 9/9/18

I am against the development of a water district on my road.

Signature _____ Date _____

11. The water has caused deterioration of: () plumbing () hot water heaters
 () hot water heating systems () filtering systems
12. Do you practice water conservation? (✓) always () never () occasionally
13. Do you purchase or obtain drinking water from another source? () yes (✓) no
14. Has a well or wells ever gone dry? () frequently () occasionally (✓) never
15. How long has the problem existing? () years (how many _____) () occasionally
16. Do you do laundry at home? (✓) always () occasionally () never
17. Are you able to flush the toilet with each use? (✓) yes () no
18. Have you ever had bulk delivery of water? () always () occasionally (✓) never
19. Are you concerned about fire protection? (✓) yes () no

COMMENTS:

Please sign in appropriate area.

I am **in favor of** the development of a water district on my road.

Signature _____ Date _____

I am **against** the development of a water district on my road.

Signature _____ Date 9/11/18

**SURVEY FOR THE DEVELOPMENT OF PUBLIC WATER
TOWN OF STERLING**

Dear Neighbors:

The Town Board is trying to obtain information to determine if there is need for future water service areas. This survey was prepared to assist the engineers and the Town Board with the statistics needed. Please try to answer the questions below and then sign in the space indicating your choice (pro or con) to pursue funding for a public water system. If there is demonstrated support for a project, the Town will use the compiled results to apply for State and Federal Grant and Low Interest Loan money to construct an affordable project. The survey results will be utilized by the Engineers involved in order to recommend potential project areas to consider.



It is important to determine where problems exist in the area where you live and whether sufficient interest exists to secure outside funding for expanding the supply of public water. **This information does not commit you either way.**

Thank you!

Town Board

**SURVEY QUESTIONS
(Please use a pen)**

1. Type of well: Drilled () Dug () Other
2. Number of wells: 1 () 2 () 3
3. Depth of well or wells: 9 () feet () feet () feet
4. Recovery time of the well or wells is/ are:
 good () poor () has changed
 if changed: () more () less
5. Has/Have the well/wells ever been contaminated? () yes no
6. If yes to #5, state type of contamination of well or wells:

7. Has the contamination been corrected?
 () yes () no () have installed a system or filter to correct
8. The taste of the water is: good () poor () tastes like _____
9. The clarity of the water is: clear () cloudy () changes with increased use
10. The water causes discoloration of: () sinks/toilets () clothes never

Please complete both sides!

Your input is valuable!

11. The water has caused deterioration of: () plumbing () hot water heaters
 () hot water heating systems () filtering systems
12. Do you practice water conservation? (X) always () never () occasionally
13. Do you purchase or obtain drinking water from another source? () yes (X) no
14. Has a well or wells ever gone dry? () frequently () occasionally (X) never
15. How long has the problem existing? () years (how many _____) () occasionally
16. Do you do laundry at home? (X) always () occasionally () never
17. Are you able to flush the toilet with each use? (X) yes () no
18. Have you ever had bulk delivery of water? () always () occasionally (X) never
19. Are you concerned about fire protection? () yes (X) no

COMMENTS:

Please sign in appropriate area.

I am **in favor of** the development of a water district on my road.

Signature _____ Date _____

I am **against** the development of a water district on my road.

Signature _____ Date 9/15/2018

11. The water has caused deterioration of: plumbing hot water heaters
 hot-water heating systems filtering systems *-none*
12. Do you practice water conservation? always never occasionally
13. Do you purchase or obtain drinking water from another source? yes no
14. Has a well or wells ever gone dry? frequently occasionally never
15. How long has the problem existing? years (how many _____) occasionally
16. Do you do laundry at home? always occasionally never
17. Are you able to flush the toilet with each use? yes no
18. Have you ever had bulk delivery of water? always occasionally never
19. Are you concerned about fire protection? yes no

COMMENTS: ' _____

Please sign in appropriate area.

I am **in favor of** the development of a water district on my road.

Signature _____ Date 9/16/18

I am **against** the development of a water district on my road.

Signature _____ Date _____

VACANT FOR NOW

11. The water has caused deterioration of: plumbing hot water heaters
 hot water heating systems filtering systems
12. Do you practice water conservation? always never occasionally
13. Do you purchase or obtain drinking water from another source? yes no
14. Has a well or wells ever gone dry? frequently occasionally never
15. How long has the problem existing? years (how many _____) occasionally
16. Do you do laundry at home? always occasionally never
17. Are you able to flush the toilet with each use? yes no
18. Have you ever had bulk delivery of water? always occasionally never
19. Are you concerned about fire protection? yes no

COMMENTS:

I AM NOT INTERESTED IN FUNDING A PROJECT TO MAKE SOME OTHER ENTITY MONEY + THEY GET GOUGED BECAUSE THE LINE RUNS IN FRONT OF MY LAND

Please sign in appropriate area.

I am in favor of the development of a water district on my road.

Signature _____

Date _____

I am against the development of a water district on my road.

Signature _____

Date 16 SEP 2018

- 11. The water has caused deterioration of: () plumbing () hot water heaters
() hot water heating systems () filtering systems *H/A*
- 12. Do you practice water conservation? () always () never () occasionally *H/A*
- 13. Do you purchase or obtain drinking water from another source? () yes *H/A* no
- 14. Has a well or wells ever gone dry? () frequently () occasionally (X) never
- 15. How long has the problem existing? () years (how many _____) () occasionally
- 16. Do you do laundry at home? (X) always () occasionally () never
- 17. Are you able to flush the toilet with each use? (X) yes () no
- 18. Have you ever had bulk delivery of water? () always () occasionally () never *H/A*
- 19. Are you concerned about fire protection? () yes (X) no

COMMENTS: *None of these questions pertain to our situation*

Please sign in appropriate area.

I am **in favor of** the development of a water district on my road.

Signature _____ Date _____

I am **against** the development of a water district on my road.

Signature _____ Date *7/13/18*

- 11. The water has caused deterioration of: plumbing hot water heaters
 hot water heating systems filtering systems
- 12. Do you practice water conservation? always never occasionally
- 13. Do you purchase or obtain drinking water from another source? yes no
- 14. Has a well or wells ever gone dry? frequently occasionally never
- 15. How long has the problem existing? years (how many _____) occasionally
- 16. Do you do laundry at home? always occasionally never
- 17. Are you able to flush the toilet with each use? yes no
- 18. Have you ever had bulk delivery of water? always occasionally never
- 19. Are you concerned about fire protection? yes no

COMMENTS:

Please sign in appropriate area.

I am in favor of the development of a water district on my road.

Signature _____

Date 9/15/18

I am against the development of a water district on my road.

Signature _____

Date _____

11. The water has caused deterioration of: () plumbing () hot water heaters
() hot-water heating systems () filtering systems
12. Do you practice water conservation? () always () never (X) occasionally
13. Do you purchase or obtain drinking water from another source? () yes (X) no
14. Has a well or wells ever gone dry? () frequently () occasionally (X) never
15. How long has the problem existing? () years (how many _____) () occasionally
16. Do you do laundry at home? () always () occasionally (X) never
17. Are you able to flush the toilet with each use? (X) yes () no
18. Have you ever had bulk delivery of water? () always () occasionally (X) never
19. Are you concerned about fire protection? (X) yes () no

COMMENTS:

Please sign in appropriate area.

I am **in favor of** the development of a water district on my road.

Signature _____ Date 9-1-18

I am **against** the development of a water district on my road.

Signature _____ Date _____