

9.4 SPECIAL PURPOSE DISTRICT – WASHINGTONVILLE CENTRAL SCHOOL DISTRICT

This section presents the jurisdictional annex for the Washingtonville Central School District.

9.4.1 HAZARD MITIGATION PLAN POINT OF CONTACT

Primary Point of Contact	Alternate Point of Contact
Paul Nienstadt, Executive Director 52 West Main Street, Washingtonville, NY (845) 497-4000 ext. 27111 pnienstadt@wek.k12.ny.us	Gregory Kern, Assistant Superintendent 52 West Main Street, Washingtonville, NY (845) 497-4000 ext. 27033 gkern@ws.k12.ny.us

9.4.2 DISTRICT PROFILE

The Washingtonville Central School District (WCSD) consists of a total of five schools including the Taft Elementary School, Little Britain Elementary School, Round Hill Elementary School, Washingtonville Middle School, and Washingtonville High School. All of these schools are used by Blooming Grove residents. WCSD serves the area roughly bounded by Worley Heights to the south, the Town of Blooming Grove border to the east and extends into New Windsor to the north and into Hamptonburgh to the west.

- 1.) **Land Area Served:** WCSD serves an area of approximately 37,208 acres (58.1 square miles).
- 2.) **Population Served:** According to The Washingtonville Central School District 2013 Long Range Planning Study Update (WCSD, 2013) there were an estimated 24,536 residents living within the district in 2011. Total K – 12 enrollment was 4,342 students in 2012, and is projected to shrink to 4,266 in 2013.
- 3.) **Land Area Owned:** The Washingtonville Central School District (WCSD) owns and operates roughly 190 acres of property (Stakeholder Input, 2013).
- 4.) **List of Critical Facilities (owned by District):**

Table 9.4-1. Washingtonville Central School District (WCSD)-Owned Facilities

Building	Square Footage
High School	256,920
Middle School	115,266
Taft	68,330
Little Britain	48,366
Round Hill	67,952
Administration Building	4,390
Bus Garage	9,956
Total	571,180

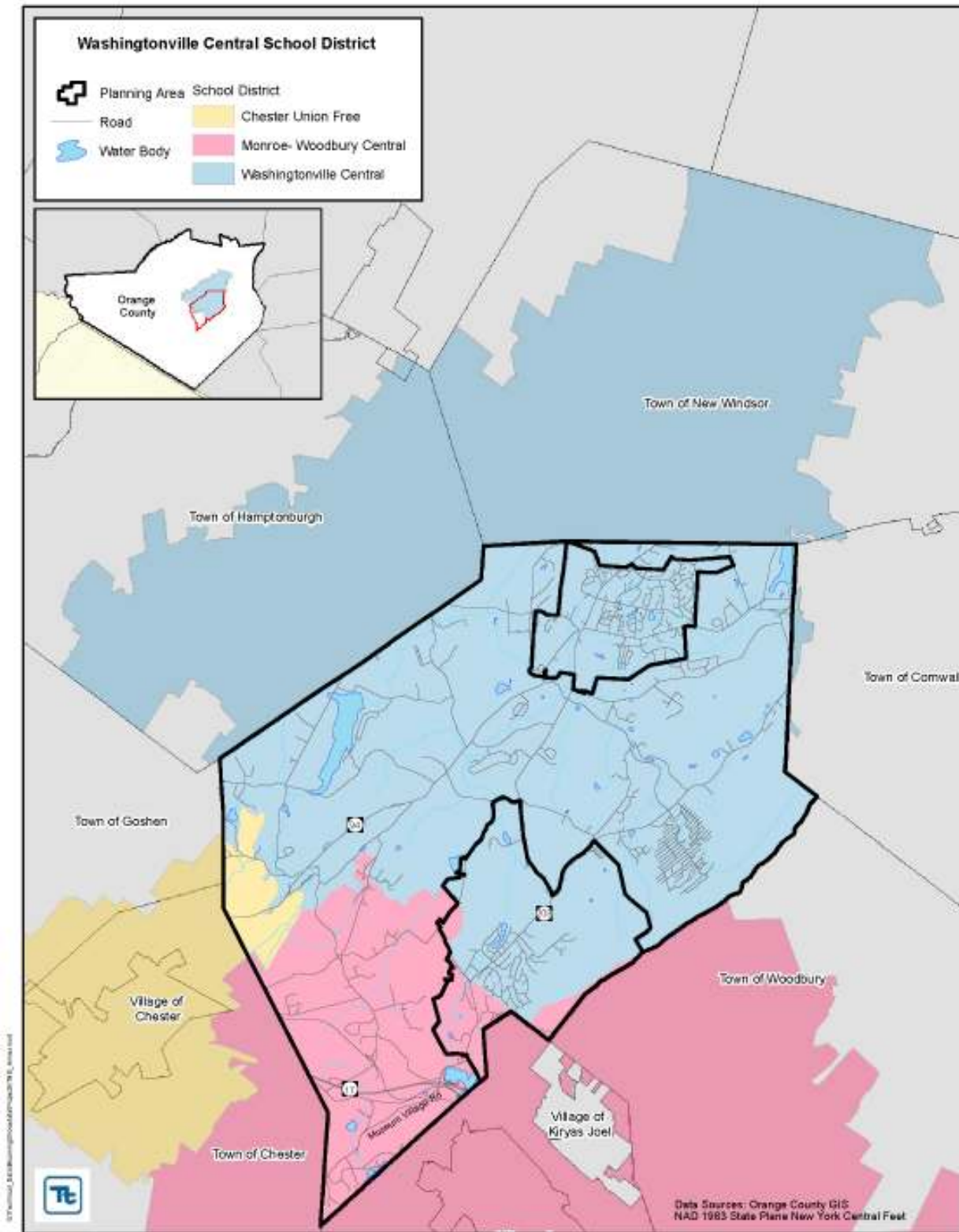
5.) Estimated Value of Critical Facilities (owned by District):

Table 9.4-2. Estimated Replacement Cost Value (RCV) of WCSD-Owned Facilities

Building	Square Footage	Estimated RCV
High School	256,920	\$43,380,942
Middle School	115,266	\$19,462,664
Taft	68,330	\$11,537,521
Little Britain	48,366	\$8,166,599
Round Hill	67,952	\$11,473,695
Administration Building	4,390	\$741,252
Bus Garage	9,956	\$1,681,071
Total	571,180	\$96,443,743

Note: Estimated replacement cost value is based on the RSMeans 2012 value of \$168.85 square foot for a school building.

9.4.3 OUTLINE OF AREA SERVED



9.4.4 CURRENT AND ANTICIPATED SERVICE TRENDS

The Washingtonville Central School District 2013 Long Range Planning Study Update reported an overall enrollment decrease of 780 students, or 15.2 percent, between 2002 and 2012. The elementary and middle grades lost students over the past ten years, while the high school grades showed growth during the first half of the historical period, followed by losses in the latter half of the period. The report projected further decreases in the elementary and high school grades over the next five years, with losses in the middle and high school grades expected in the latter half of the period. The K – 12 enrollment is expected to be at its projection period (2013 – 2022) peak of 4,266 students in 2013; this is 76 fewer students than were enrolled in 2012. District enrollment is expected to decrease by 215 students, or 5.8 percent, by 2022 (WCSD, 2013).

9.4.5 NATURAL HAZARD EVENT HISTORY

The Town of Blooming Grove Planning Area has a history of natural hazard events as detailed in Volume I, Section 5.0 of this plan. A summary of historical events is provided in each of the hazard profiles and includes a chronology of events that have affected the Planning Area and its municipalities. The table below presents a summary of events that have occurred from 2008 to the present to indicate the range and impact of natural hazard events in the community. Information regarding specific damages is included if available based on reference material or local sources. For details of events prior to 2008, refer to Volume I, Section 5.0 of this plan.

Natural Hazard Event History				
Event Type	Date(s) of Event	FEMA Declaration	Orange County Designated?	Approximate Damage Assessment
Severe Storm	December 11, 2008	EM-3299	Yes	Two lows combined for a prolonged period of freezing rain. Up to one half inch of ice was reported in Orange County. The conditions caused one major automobile accident with eight injuries, downed trees, and downed power lines.
Severe Storms and Flooding (Nor'Easter)	March 13-31, 2010	DR-1899	Yes	Heavy rain caused flooding which damaged to private property, local bridges, roads, culverts, the Tappan Water and Wastewater plants, Moffat Library, and Mays Field Recreational Complex.
TSTM/Wind	June 24, 2010	N/A	N/A	No damages were reported/ available.
Lightning	July 19, 2010	N/A	N/A	No damages were reported/ available.
Lightning	July 21, 2010	N/A	N/A	No damages were reported/ available.
Flood	March 7, 2011	N/A	N/A	No damages were reported/ available.
Tornado	July 29, 2011	N/A	N/A	In Lower Hudson Valley, there was at least one super cell, which produced a tornado in Orange County. The NWS confirmed an EF-1 tornado that ran from the Towns of Goshen to Blooming Grove, on Friday July 29th. The tornado touched down in the Town of Goshen, before finally lifting near Prospect Road in the Town of Blooming Grove. All along its path, trees converged into a well-defined narrow path. Total property damage from this event was approximately \$50,000.
Hurricane Irene	August 26-September 5, 2011	DR-4020	Yes	Heavy rain caused flooding which damaged to private property, local bridges, roads, culverts, the Tappan Water and Wastewater plants, Moffat Library, the Salisbury Mills Fire Company headquarters, and Mays Field Recreational Complex.
Remnants of Tropical Storm Lee	September 7-11, 2011	DR-4031	Yes	Remnants of Tropical Storm Lee produced heavy rains and caused flash flooding and river flooding across parts of central New York State and northeast Pennsylvania. As of April 4, 2013, more than \$55M in individual assistance and \$126M in public



Natural Hazard Event History				
Event Type	Date(s) of Event	FEMA Declaration	Orange County Designated?	Approximate Damage Assessment
				assistance grants had been awarded by FEMA to affected counties in the State of New York. Specific damages for Orange county were not available at this time.
Hurricane Sandy	October 27 – November 8, 2012	DR-4085	Yes	Heavy rain caused flooding which damaged to private property, local bridges, roads, culverts, the Tappan Water and Wastewater plants, Moffat Library, and Mays Field Recreational Complex. High winds also downed trees and power lines causing widespread power outages.

Note:

DR = Major Disaster Declaration

ER = Enhanced Fujita Scale (tornado)

EM = Emergency Declaration

M = Million (\$)

N/A = Not applicable

TSTM = Thunderstorm

9.4.6 NATURAL HAZARD RISK RANKING

The table below summarizes the vulnerability risk rankings of potential hazards of the Washingtonville Central School District.

Table 9.4-3 Natural Hazard Risk/Vulnerability Risk Ranking

Natural Hazard Risk/Vulnerability Risk Ranking ^a			
Hazard type	Probability of Occurrence	Risk Ranking Score (Probability x Impact)	Hazard Ranking ^{a, b}
Flood	Occasional	12	Medium
Severe Storm	Frequent	18	Medium
Severe Winter Storm	Frequent	39	High
Earthquake	Rare	6	Low
Drought	Occasional	12	Medium
Extreme Temperature	Occasional	12	Medium
Wildfire	Occasional	16	Medium

Notes:

- a. Estimate of Potential Dollar Losses to Structures Vulnerable to the Hazard not available for the Washingtonville Central School District.
- b High = Total hazard priority risk ranking score of 22 and above
 Medium = Total hazard priority risk ranking of 12-22
 Low = Total hazard risk ranking below 12

9.4.7 EXISTING MITIGATION ACTIVITIES

The Washingtonville Central School District did not report having any existing natural hazard mitigation codes, ordinances or policies in place, nor any existing natural hazards mitigation plans and/or documents. WCSD officials did not report any district mitigation-related classifications.

9.4.8 PROPOSED HAZARD MITIGATION INITIATIVES

Some of the identified mitigation initiatives in the table below are dependent upon available funding (grants and local match availability) and may be modified or omitted at any time based on the occurrence of new hazard events and changes in municipal priorities.

Table 9.4-4 Proposed Hazard Mitigation Initiatives



Proposed Hazard Mitigation Initiatives											
Initiative	Mitigation Initiative	Applies to New and/or Existing Structures*	Hazard(s) Mitigated	Goals and Objectives Met	Lead and Support Agencies	Estimated Benefits	Estimated Cost	Sources of Funding	Timeline	Priority	Category/Mitigation
Mitigation Type: Prevention											
WSD-1	Continue to support the implementation, monitoring, maintenance, and updating of this Plan, as defined in Section 7.0	New and Existing	All Hazards	1-3 1-6 1-7	Municipality with support from Planning Partners, County Planning, NYSOEM, FEMA	High	Low – High (for 5 year update)	Municipal Budget, FEMA planning grants	On-going	H	PR
WSD-2	Utilize school district networks and associations to provide public education and outreach on disaster preparedness and mitigation activities, including: proper installation and/or use of backup power.	N/A	Severe Storm	2-2 2-4 2-5 3-3	Municipal Clerk	Medium	Low	Municipal Budget	Short	M	PR
WSD-3	Create/Enhance/Maintain Mutual Aid agreements with neighboring communities for continuity of operations	N/A	All Hazards	3-6 5-1 5-2	Municipality with support from County, NYSOEM, FEMA and surrounding communities	Medium	Low	Municipal Budget	Short Term	M	PR, ES
WSD-4	Support ongoing updates of Comprehensive Emergency Management Plans	New and Existing	All Hazards	1-6	Municipality with support from County Emergency Management	Low	Low	Municipal Budget	On-going	M	PR
WSD-5	Promote the participation of Floodplain Administrators within the planning process, capital improvements, and other activities.	N/A	Flood	1-6 1-7 1-8	Municipality with support from County, NYSOEM and FEMA	Medium	Medium	Municipal Budget	Short	M	PR
WSD-6	Identify and develop agreements with entities that can provide support with FEMA/NYSOEM paperwork after disasters; qualified damage assessment personnel – Improve post-disaster capabilities – damage assessment; FEMA/NYSOEM paperwork compilation, submissions, record-keeping	N/A	All Hazards	2-7	Municipality with support from County, NYSOEM and FEMA	Medium	Medium	Municipal Budget	Short Term	M	PR, ES
Mitigation Type: Property Protection											
WSD-7	Relocate emergency and governmental services outside of floodplain	Existing	Flood	1-2 3-5	Municipality, and support from NYSOEM, FEMA	High	High	FEMA Mitigation Grants	Long Term DOF	H	PP
WSD-8	Relocation of Town of Blooming Grove Maintenance Garage	Existing	All	1-1 3-5	Joint project with the Town of Blooming Grove; support from County Planning,	High	High	FEMA Mitigation Grants	Long Term DOF	H	PP

Notes:

*Does this mitigation initiative reduce the effects of hazards on new and/or existing buildings and/or infrastructure? Not applicable (N/A) is inserted if this does not apply.

Acronyms and Abbreviations:

ARC	American Red Cross
BGPD	Blooming Grove Planning Department
DPW	Department of Public Works
FEMA	Federal Emergency Management Agency
HMA	Hazard Mitigation Assistance
HMP	Hazard Mitigation Proposal
N/A	Not applicable
NFIP	National Flood Insurance Program
NYSOEM	New York State Office of Emergency Management
NOAA	National Oceanic and Atmospheric Administration
USACE	U.S Army Corp of Engineers
USGS	U.S. Geological Survey

Costs:

Where actual project costs have been reasonably estimated:

Low = < \$10,000

Medium = \$10,000 to \$100,000

High = > \$100,000

Where actual project costs cannot reasonably be established at this time:

Low = Possible to fund under existing budget. Project is part of, or can be part of an existing on-going program.

Medium = Could budget for under existing work plan, but would require a reapportionment of the budget or a budget amendment, or the cost of the project would have to be spread over multiple years.

High = Would require an increase in revenue via an alternative source (i.e., bonds, grants, fee increases) to implement. Existing funding levels are not adequate to cover the costs of the proposed project.

Benefits:

Where possible, an estimate of project benefits (per FEMA's benefit calculation methodology) has been evaluated against the project costs, and is presented as:

Low = < \$10,000

Medium = \$10,000 to \$100,000

High = > \$100,000

Where numerical project benefits cannot reasonably be established at this time:

Low = Long-term benefits of the project are difficult to quantify in the short term.

Medium = Project will have a long-term impact on the reduction of risk exposure to life and property, or project will provide an immediate reduction in the risk exposure to property.

High = Project will have an immediate impact on the reduction of risk exposure to life and property.

Potential FEMA HMA Funding Sources:

FMA = Flood Mitigation Assistance Grant Program

HMGP = Hazard Mitigation Grant Program

PDM = Pre-Disaster Mitigation Grant Program

RFC = Repetitive Flood Claims Grant Program



SRL = Severe Repetitive Loss Grant Program

Timeline:

Short = 1 to 5 years

Long Term = 5 years or greater

OG = On-going program

DOF = Depending on funding

Notes (for Mitigation Type):

1. PR = Prevention: Government, administrative or regulatory actions, or processes that influence the way land and buildings are developed and built. Examples include acquisition, elevation, relocation, structural retrofits, storm shutters, and shatter-resistant glass. Examples include planning and zoning, floodplain local laws, capital improvement programs, open space preservation, and storm water management regulations.
2. PP = Property Protection: These actions include public activities to reduce hazard losses or actions that involve (1) modification of existing buildings or structures to protect them from a hazard or (2) removal of the structures from the hazard area. Examples include acquisition, elevation, relocation, structural retrofits, storm shutters, and shatter-resistant glass.
3. PE = Public Education and Awareness: Actions to inform and educate citizens, elected officials, and property owners about hazards and potential ways to mitigate them. Such actions include outreach projects, real estate disclosure, hazard information centers, and educational programs for school-age children and adults.
4. NR = Natural Resource Protection: Actions that minimize hazard loss and also preserve or restore the functions of natural systems. These actions include sediment and erosion control, stream corridor restoration, watershed management, forest and vegetation management, and wetland restoration and preservation.
5. SP = Structural Projects: Actions that involve the construction of structures to reduce the impact of a hazard. Such structures include dams, setback levees, floodwalls, retaining walls, and safe rooms.
6. ES = Emergency Services: Actions that protect people and property during and immediately following a disaster or hazard event. Services include warning systems, emergency response services, and the protection of essential facilities.

9.4.9 PRIORITAZATION OF MITIGATION INITIATIVES

Prioritization of Mitigation Initiatives							
Initiative #	MetObjectives # of	Benefits	Costs	Do benefits (exceed) or exceed costs?	(Yes or No) Is project Grant eligible?	Can project be funded under existing (Yes or No) programs/ budgets?	(High, Med., Low) Priority
Mitigation Type: Prevention							
WSD-1	3	H	L	Y	N	Y	High
WSD-2	4	M	L	Y	Y	Y	Medium
WSD-3	3	M	L	Y	N	Y	Medium
WSD-4	1	L	L	Y	N	Y	Medium
WSD-5	3	M	M	Y	N	Y	Medium
WSD-6	1	M	M	Y	N	Y	Medium
Mitigation Type: Property Protection							
WSD-7	1	H	H	Y	Y	N	High
WSD-8	2	H	H	Y	Y	Y	High
WSD-9	2	H	H	Y	Y	Y	High
Mitigation Type: Public Education and Awareness							
WSD-10	4	M	M	Y	Y	Y	Medium
Mitigation Type: Natural Resources Protection – N/A							
Mitigation Type: Structural Projects – N/A							
Mitigation Type: Emergency Services – N/A							
WSD-11	2	H	M	Y	Y	Y	High
WSD-12	3	M	M	Y	Y	N	Medium
WSD-13	2	M	M	Y	Y	Y	Medium

Notes: H = High. L = Low. M = Medium. N = No. N/A = Not applicable. Y = Yes.

Explanation of Priorities

High Priority = A project that meets multiple objectives (i.e., multiple hazards), benefits exceeds cost, has funding secured or is an on-going project and project meets eligibility requirements for the Hazard Mitigation Grant Program (HMGP) or Pre-Disaster Mitigation Grant Program (PDM) programs. High priority projects can be completed in the short term (1 to 5 years).

Medium Priority = A project that meets goals and objectives, benefits exceeds costs, funding has not been secured but project is grant eligible under, HMGP, PDM or other grant programs. Project can be completed in the short term, once funding is completed. Medium priority projects will become high priority projects once funding is secured.

Low Priority = Any project that will mitigate the risk of a hazard, benefits do not exceed the costs or are difficult to quantify, funding has not been secured and project is not eligible for HMGP or PDM grant funding, and time line for completion is considered long term (1 to 10 years). Low priority projects may be eligible other sources of grant funding from other programs. A low priority project could become a high priority project once funding is secured as long as it could be completed in the short term.

Was prioritization of initiatives based on the above definitions? Yes

Was prioritization of initiatives based on parameters other than those stated above? Not applicable

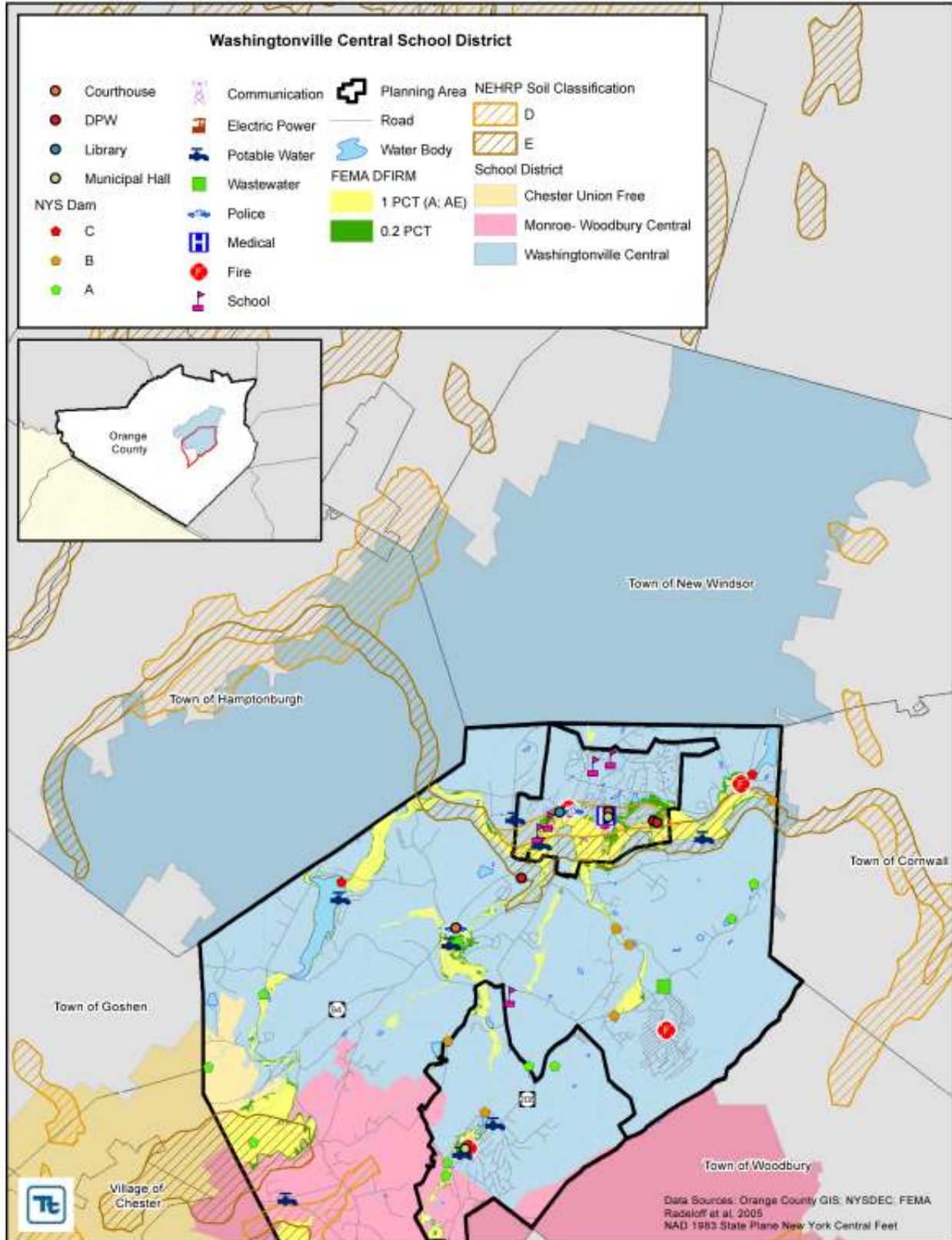
9.4.10 FUTURE NEEDS TO BETTER UNDERSTAND RISK/VULNERABILITY

None identified at this time.

9.4.11 HAZARD AREA EXTENT AND LOCATION

A hazard area extent and location map has been generated and is provided below for the Washingtonville Central School District to illustrate the probable areas impacted within the Washingtonville Central School District. This map is based on the best available data at the time of the preparation of this Plan, and is considered to be adequate for planning purposes. Maps have only been generated for those hazards that can be clearly identified using mapping techniques and technologies, and for which the Washingtonville Central School District has significant exposure. The Planning Area maps are provided in the hazard profiles within Section 5.4, Volume I of this Plan.

SECTION 9.4: WASHINGTONVILLE CENTRAL SCHOOL DISTRICT



Note: The wildfire urban interface is not illustrated on the map.



9.4.12 ADDITIONAL COMMENTS

There are no additional comments at this time.