



## *West Islip has 2020 Vision*

# SMART SCHOOLS BOND ACT PRELIMINARY INVESTMENT PLAN Phase 1

## West Islip Public Schools Spring 2016

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Amit Pathak, Network Consultant

## **PUBLIC HEARING ON SMART SCHOOLS BOND FUNDING**

There will be a Public Hearing on Smart Schools Bond Act Fund on:

July 5, 2016

West Islip High School

1 Lions Path

West Islip, NY 11795

Immediately following BOE reorganization at 7:30 p.m.

*If our West Islip Community would like to submit written feedback on the West Islip NYS Smart Schools Bond Act Preliminary Proposed Plan, please email:*

[wismartschools@wi.k12.ny.us](mailto:wismartschools@wi.k12.ny.us)

To learn more about the Smart Bond Act FAQs and Guidelines go to:

NYSED SSBA FAQs 07/16/15

<http://www.p12.nysed.gov/mgtserv/documents/FAQsforSmartSchoolsBondAct.pdf>

NYSED SSBA FAQs 10/27/15

<http://www.p12.nysed.gov/mgtserv/documents/SSBAQuestionsASBO102615edited102815AL.pdf>

NYSED SSBA Guidelines

[http://www.p12.nysed.gov/mgtserv/smart\\_schools/docs/Smart\\_Schools\\_Bond\\_Act\\_Guidance\\_04.27.15\\_Final.pdf](http://www.p12.nysed.gov/mgtserv/smart_schools/docs/Smart_Schools_Bond_Act_Guidance_04.27.15_Final.pdf)

NYSED SSBA Website

<http://www.p12.nysed.gov/facplan/SmartSchoolsBondAct.htm>

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## PLAN OVERVIEW

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The Smart Schools Bond Act (SSBA) was passed in November 2014 by a state wide referendum to invest \$2.0 billion in New York State schools and the West Islip School District is allocated to receive \$2,973,629. The West Islip School District Smart Schools Investment Plan for Phase 1 is designed to:

- ❑ Upgrade network infrastructure to support high-speed traffic requirements for online productivity and assessments.
- ❑ Install new wireless equipment and upgrade existing wireless equipment to create a district-wide digital age learning culture.

Working with the West Islip Districtwide Technology Committee, and aligned with the District Technology Plan, this investment plan has been drafted to focus this allocation on the Smart Schools Bond Act allowable expenditures that include school connectivity.

## PRECONDITIONS

As a precondition to utilizing the SSBA allocations, the district must ensure that there is adequate bandwidth to further expand wireless connectivity for classrooms and additional technology devices for teachers and students. The Federal Communications Commission requires a minimum speed standard of 100 Mbps per 1,000 students. The West Islip School District has approximately 4,500 students, which based on the standard, means a 450 Mb connection speed is required ( $100\text{Mb} \times 4.5 = 450\text{ Mb}$ ). The District currently has a 300Mb internet connection and plans to upgrade to a 450 Mb connection by December 2016. The funding for this will come from the district general fund and supported additionally through eRate reimbursement.

The West Islip School District has managed fiber between buildings on the schools wide area network (WAN) that can support up to 10 Gb of connectivity. Currently West Islip has one Gb between sites for district interconnectivity but with the proposed SSBA allocations for upgrades to the West Islip School District local area network (LAN) infrastructure, the WAN could then be increased as needed to 10 Gb between schools.

All district plans approved by the school board and submitted to the New York State Education Department must meet the required elements, including demonstrating students' needs, minimal speed requirements for internet connectivity, professional development, technical support, and sustainability. As part of the process, districts are required to submit a District Instructional Technology Plan Survey in compliance with the Education Law and Commissioner's Regulations. The Instructional Technology Plan Survey outlines the current and future plans of the district as it relates to infrastructure, devices, staffing, and professional development to improve teaching and learning. The Instructional Technology Plan Survey was approved by the New York State Education Department in September 2015, and an updated and revised plan survey will be resubmitted for 2016-2017.

## PLAN GOALS

The West Islip School District Smart Schools Investment Plan goals align with the district’s Technology Plan. The district will:

- Continue to provide technical support, infrastructure upgrades, and network maintenance for all users of the network.
- Configure and expand Wi-Fi infrastructure for Wi-Fi access points for all classrooms in grades K-12.
- Continue to develop and integrate K-12 students’ technical competencies and learning strategies that seamlessly integrate International Society for Technology in Education (ISTE) Standards, National Common Core Standards and College and Career Readiness.
- Continue to implement ISTE Administrator and Teacher technology standards to ensure that curriculum, instructional strategies, and learning environments integrate appropriate technologies.
- Establish and maintain a one-to-one device program to support student learning initiatives.

Specifically, the District’s Smart Schools Bond Act allocation will focus on:

- Expanding the West Islip School District network infrastructure to upgrade connectivity and speeds (bandwidth) between West Islip schools and the Internet
- Designing a state-of-the art Wi-Fi infrastructure for wireless access in all classrooms in grades K-12 using a density model.

## PURCHASE PLAN & ALLOCATIONS

### School Connectivity (High-Speed Broadband and Wireless)

To prepare for the transformative changes called for by West Islip’s 2020 Vision, it is critical to first address the status of the current network. Over the course of several months, a draft preliminary plan was developed and will be presented at the regular public Board of Education meeting on June 9, 2016. Once the draft preliminary plan is approved by the School Board, it will be posted on the district website and a public hearing will be conducted to enable stakeholders to respond to the preliminary plan. After the hearing, the district will prepare a final plan for School Board approval. The approved plan will be submitted to the New York State Education Department and posted on the district website. The planning process will include consultation with parents, teachers, students, community members, any non-public schools located in the district, and other stakeholders.

At this time the district is seeking approval of \$1,750,000 in the budget categories outlined below for phase 1 of the Smart Schools Bond Act.

<b>Connectivity Projects for Schools</b>		
	<b><i>West Islip Sub-allocation</i></b>	<b><i>Non-Public Sub-Allocation</i></b>
Network/Access Costs	\$1,450,000	0
School Internal Connections & Components	0	0
Professional Services	\$300,000	0
Sub-total	\$1,750,000	0
<b><i>Unallocated Funds</i></b>	<b><i>\$1,223,629</i></b>	

The following steps must be completed to fulfill the requirement of the New York State Education Department and thus allow access to the allocated funds:

1. BoE approval of a preliminary SSIP (6.9.16)

2. Community sharing of draft SSIP to allow for community feedback (7.5.16)
3. A public hearing allowing the District stakeholders to respond to the draft plan (7.5.16)
4. Final SSIP approval by the BoE (8.11.16)
5. Submission of the SSIP to the New York State Department of Education. (8.12.16)

The BoE has historically and currently operates on using one-time funds sparingly, and if so, the dollars will be directed to long-term investments. While the actual Smart School Bond legislation allows for the use of the funds on what the District would consider to be more consumable type expenditures (ex. tablets that last three years), these funds would be used to support the needs of the current West Islip School District technology structure and future plans. The Smart Schools Bond funds will be expended with the utmost fiduciary responsibility to provide updated technology infrastructure with a life span of at least seven years.

The West Islip School District intends to use this first allocation of SSBA funds for high-speed broadband and wireless connectivity projects in all school buildings. The central goal is to provide an environment capable of supporting seamless integration of instructional technology.

- ❑ **Project 1-Infrastructure:** A significant part of the SSBA funds will be used to update an aging infrastructure to support high-speed traffic requirements for online productivity and assessment operations. The district's SSBA fund allocation will support the upgrade of its internal network backbone to accommodate fast connections and power over ethernet (PoE). The allocation will permit the district to replace all networking switches in the seven district buildings. The NYSED Office of Facilities Planning conducted a preliminary review of this project and assigned project number 58-05-09-03-7-999-BA1 on May 16, 2016.
- ❑ **Project 2-Wireless Access:** The wireless network designed will be state of the art using a density model to accommodate the entry of more personal technology and 1:1 computing. The SSBA funding allotment will be used to purchase wireless access points for each learning space - one wireless access point (WAP) per classroom and in common areas district-wide. All current access points to the latest IEEE 802.11 standards will be upgraded, and Cisco wireless components will be expanded at all schools to include wireless access points for all classrooms, instructional areas, and other areas in the district. The NYSED Office of Facilities Planning conducted a preliminary review of this project and assigned project number 58-05-09-03-7-999-007 on May 16, 2016.

## PROFESSIONAL DEVELOPMENT

On-going professional development is a critical component of both the District's Instructional Technology Plan and the Smart Schools Investment Plan. The district provides myriad professional development opportunities each year for teachers, teaching assistants, and administrators. The training addresses use of the SmartBoard and Smart Notebook software, instructional software applications, Google Apps for Education, and more. The District strongly believes that both the instructional leadership staff and the technical support staff need higher-level professional development, which will continue on an on-going basis to facilitate the utilization of technology tools and resources in the most effective manner possible. Additional technology personnel will be needed to support the integration of the new initiatives supported by the Smart Schools Bond.

## INVESTMENT PLAN TIMELINE

Once the Investment Plan is approved by the state, equipment will be purchased in accord with the District's purchasing policies. Once equipment arrives, the IT staff will prioritize the unboxing, inventorying and provisioning of the equipment. The district will include this new equipment in its existing inventory database. The District's comprehensive asset insurance policy will be updated to reflect the additional equipment as well.

Based on proposed quantities, equipment should be in place and operational within 60-90 days after it arrives. Projects are prioritized in the below order:

1. Install network switches and other equipment to upgrade West Islip network infrastructure
2. Install wireless access equipment and cabling