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SMART SCHOOLS INVESTMENT PLAN

December, 2016

SUFSD
99 Greeley Avenue
Sayville, NY 11782

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Executive Summary

In January 2014, Governor Andrew M. Cuomo called for New York State to invest \$2 billion in its schools through a Smart Schools Bond Act (SSBA) that will build out schools and classrooms for the 21st Century to ensure that our students graduate with the skills they need to thrive in the economy of today and tomorrow. Voters approved the Bond Act in November 2014.

The Sayville School District will receive \$2,382,921 in funds through the SSBA. The Smart Schools Bond identifies expendable and non-expendable areas of improvement. There are four key areas of improvement; high speed broadband wireless and internet connectivity, learning technology, construction of Pre-K facilities, and high tech security features.

In the summer through fall of 2015, the District engaged multiple stakeholders to identify Smart School Bonds areas of improvement for the District. The stakeholders (consisting of District staff, community members, parents, and students) met and using Smart Schools guidelines identified funding for high-speed broadband wireless connectivity, additional security cameras and door access systems.

The District will increase the network bandwidth and wireless access, using high speed switching devices with upgraded capability over the next 10-15 years.

The Smart Schools Bond funds will provide updated technology infrastructure with a life span of 10+ years to support the Sayville School District. This will provide students and teachers access to learning technology to ensure students are prepared with 21st century skills. The district is seeking approval of \$2,382,921.00 in total budget categories outlined below.

Budget Category	
School Connectivity	\$802,085.36
High-Tech Security Features	\$1,477,410
Classroom Technology	92,930.00
Total	\$2,372,425.36

Smart Schools Investment Plan

School Connectivity

1. **Briefly describe how you intend to use Smart Schools Bond Act funds for high-speed broadband and/or wireless connectivity projects in school buildings.**

Technology will be used in the Sayville School District in support of the district's mission. Sayville School District views technology as an effective and necessary tool, capable of enhancing the communication skill and productive capacity of students, staff, and parents. For students and staff to receive the maximum benefit from the digital technologies, the district will need sufficient connectivity infrastructure to ensure devices can be used during the school day without interruption. The district's network infrastructure must provide a comprehensive, interconnected foundation for learning and operations. The district currently meets New York State Education Department requirement of 100 Mbps per 1,000 students and faculty. As the district moves forward with increased interactive classrooms and mobile technology, the district will need to increase its bandwidth to surpass the current recommended standards. The district will upgrade the network to 10 Gbps. Currently the district has wireless access points in most classrooms and hallways to provide access to mobile technology. The upgraded network will enable the district to add additional wireless devices in all instructional space to support a 1:1 initiative in the upper elementary and secondary buildings.

2. **Briefly describe the linkage between the district's District Instructional Technology Plan and the proposed projects.**

The district plans to extend the day beyond the classroom and school hours. Teachers throughout the district currently have secure full time access to the district network through district issued devices and Google Classroom. To provide extended access to students the district will provide technology devices so students can securely access the district's network. Google for Education will provide teachers and students home access to all of their files and work. It will provide collaboration beyond the day for student development, shared resources, and online learning. In addition, professional development is needed to train teachers and students on the best practices for online learning. The professional development will be provided by the district.

3. **To ensure that districts maximize the return on their investment in education technology and devices, Smart Schools Bond Act funds used for technology**

Infrastructure investments must increase the number of school buildings that meet or exceed the Federal Communications Commission minimum speed standard of 100 Mbps per 1,000 students.

Please describe how you will use SSBA funds to meet this standard.

The district currently meets New York State Education Department requirement of 100 Mbps per 1,000 students. Our plan to increase students' mobile technology (by putting more technology in the student's hands) will drive our need for the SSBA fund to be used to increase to a 10 Gbps broadband network. This exceeds the Federal Communications Commission minimum speed standard of 100 Mbps per 1,000 students.

4. **If the district wishes to have students and staff access the Internet from wireless devices within the school building, or in close proximity to it, it must first ensure that it has a robust Wi-Fi network in place that has sufficient bandwidth to meet user demand.**

The district network bandwidth is monitored by reviewing network traffic during varying periods of time to measuring usage. To ensure the district meets the need of the increasing number of mobile devices added to the district network, we will further increase the network speed and Wi-Fi expansion. New technology will be purchased to meet today's standards, while being modular to allow for expansion and increased bandwidth. As the district expands the network, it will need additional preventive measures to protect the infrastructure from unauthorized access, misuse, malfunction, or improper disclosure, to create a secure platform.

	Sub-Allocations
District internal connections and Cisco components	\$895,015.36
Security and Access Control	\$1,477,410.22
Totals	\$ 2,372,425.58

Community Connectivity

1. Briefly describe how you intend to use Smart Schools Bond Act funds for high-speed broadband and/or wireless connectivity projects in the community.
N/A
2. Please describe how the proposed project(s) will promote student achievement and increase student and/or staff access to the Internet in a manner that enhances student learning and/or instruction outside of the school day and/or school building. N/A
3. Community connectivity projects must comply with all the necessary local building. N/A
4. Please describe the physical location of the proposed investment. N/A
5. Please provide the initial list of partners participating in the Community Connectivity Broadband Project. N/A
6. If you are submitting an allocation for Community Connectivity, complete this table. Note that the calculated Total at the bottom of the table must equal the Total allocation for this category that you entered in the SSIP Overview overall budget.
N/A

	Sub-Allocation
Network/Access Costs	N/A
Outside Plant Costs	N/A
Tower Costs	N/A
Customer Premises Equipment	N/A
Professional Services	N/A
Testing	N/A
Other Upfront Costs	N/A
Other Costs	N/A
Totals:	N/A

Classroom Learning Technology

1. As a precondition to any purchase of devices using a Smart Schools allocation, a district must increase the number of school buildings that meet or exceed the Federal Communications Commission minimum speed standard of 100 Mbps per 1,000 students.
Please describe how your district already meets or is planning to meet this standard within 12 months of plan submission.

The district currently meets this standard.

2. If the district wishes to have students and staff access the Internet from wireless devices within the school building, or in close proximity to it, it must first ensure that it has a robust Wi-Fi network in place that has sufficient bandwidth to meet user demand.
Please describe how you have quantified this demand and how you plan to meet this demand.

Currently the district network is monitored by reviewing network traffic during varying periods to measure data traffic. To enhance the network the bandwidth speed will be increased, Wi-Fi expansion in every building will eliminate gaps in coverage and speed. New technology will be purchased to meet today's standards, while being modular to allow for expansion and increased future broadband. As the district expands the network, it will need additional preventative measures to protect the infrastructure from unauthorized access, misuse, malfunction, or improper disclosure. This creates a secure platform for devices, users, and programs to performance.

3. **All New York State public school districts are required to complete and submit an Instructional Technology Plan survey to the New York State Education Department in compliance with Section 753 of the Education Law and per Part 100.12 of the Commissioner's Regulations.**
Districts that include educational technology purchases as part of their Smart Schools Investment Plan must have a submitted and approved Instructional Technology Plan survey on file with the New York State Education Department.
The District Technology Plan survey has been approved.
4. **Describe the devices you intend to purchase and their compatibility with existing or planned platforms or systems.** Sayville Schools is looking to purchase two Cisco Telepresence units to be used in the District.
5. **Describe how the proposed technology purchases will:**
 - > **enhance differentiated instruction;** The Telepresence units will allow our District to participate in distance learning courses for Teachers and Students that we would not be able to provide in house. We will be able to tailor current course studies to student's specific needs.
 - > **expand student learning inside and outside the classroom;** Affording our classrooms the opportunity to virtually visit other countries and locations around the world.
 - > **benefit students with disabilities and English language learners; and contribute to the reduction of other learning gaps that have been identified within the district.** These devices provide excellent course opportunities to enhance both visual and non-visual learners with actual real time video and communications with targeted areas and curriculum.

6. **Where appropriate, briefly describe how the proposed technology purchases will enhance ongoing communication with parents and other stakeholders and help the district facilitate technology---based regional partnerships, including distance learning and other efforts.** The equipment purchased for distance learning will afford our students the opportunity to take electives that would not be in our normal district courses. We are hoping to partner with regional Co-Ops like BOCES, and regional schools to enhance our students course choices.
7. **Describe the district's plan to provide professional development to ensure that administrators, teachers, and staff can employ the technology purchased to enhance instruction successfully.** By providing the ability for distance learning, our students will be afforded new instructional opportunities outside of the classroom and the District. These new opportunities will also be provided to the District's Special Education and ELL populations. This initiative is consistent with the District's approved Technology Plan and affords students the opportunity to visit museums, other classrooms, and Countries all from their classroom. To ensure equitable access portable devices will be shared among all classrooms, therefore all students will have the same opportunities.

8. **Districts must contact the SUNY/CUNY teacher preparation program that supplies the largest number of the district's new teachers to request advice on innovative uses and best practices at the intersection of pedagogy and educational technology.** Sayville is working with Dr. Terry Earley *Director of Teacher Education Preparation Programs, Assessment and Accreditation* at Stony Brook University. Dr. Earley will be helping Sayville to enhance our Professional Development and training programs to utilize our new and future technology.
9. **The Smart Schools Bond Act provides that any district hardware purchases made using Smart Schools funds shall be lent, upon request, to nonpublic schools in the district. However, no school district shall be required to loan technology in amounts greater than the total obtained and spent on technology pursuant to the Smart Schools Bond Act and the value of such loan may not exceed the total of \$250 multiplied by the nonpublic school enrollment in the base year at the time of enactment. Accordingly, a district Smart Schools Investment Plan that proposes the purchase of technology devices and other hardware must account for nonpublic schools in the district.**
Are there nonpublic schools within your school district?
Yes.
10. **To ensure the sustainability of technology purchases made with Smart Schools funds, districts must demonstrate a long--term plan to maintain and replace technology purchases supported by Smart Schools Bond Act funds. This sustainability plan shall demonstrate a district's capacity to support recurring costs of use that are ineligible for Smart Schools Bond Act funding such as device maintenance, technical support, Internet and wireless fees, maintenance of hotspots, staff professional development, building maintenance and the replacement of incidental items. Further, such a sustainability plan shall include a long--term plan for the replacement of purchased devices and equipment at the end of their useful life with other funding sources.**
The district's Technology Plan identifies replacement cycles for all technology equipment. In most areas of Technology that cycle is 5 years. We have always participated in the BOCES Coser for two staff developers that work most of the year with our Assistant Superintendent of Instruction and our curriculum counsel to help Develop and train our staff. In developing the districts SSIP we will leverage state aided hardware funds. BOCES aid on technology purchases and develop a technology budget supported through district funds.

	Sub-Allocation
Interactive Whiteboards	N/A
Computer Servers	N/A
Desktop Computers	N/A
Laptop Computers	\$6,440.00
Tablet Computers	N/A
Other Cost	\$4,051.85
Totals:	\$10,491.85

Preliminary

Smart Schools Investment Plan Requirements

1. All New York State public school districts are required to complete and submit a District Instructional Technology Plan survey to the New York State Education Department in compliance with Section 753 of the Education Law and per Part 100.12 of the Commissioner's Regulations. Districts that include investments in high-speed broadband or wireless connectivity and/or learning technology equipment or facilities as part of their Smart Schools Investment Plan must have a submitted and approved Instructional Technology Plan survey on file with the New York State Education Department.
2. Pursuant to the requirements of the Smart Schools Bond Act, the planning process for a district's Smart Schools Investment Plan must include consultation with parents, teachers, students, community members, any nonpublic schools located in the district and other stakeholders.*
3. **Certify that the following required steps have taken place by checking the boxes below*:
*Each box must be checked prior to submitting your Smart Schools Investment Plan.***
 - ☐ The district developed and the school board approved a preliminary Smart Schools Investment Plan.
 - ☐ The preliminary plan was posted on the district website for at least 30 days. The district included an address to which any written comments on the plan should be sent.
 - ☐ The school board conducted a public hearing that enabled stakeholders to respond to the preliminary plan. This hearing may have occurred as part of a normal Board meeting, but adequate notice of the event was provided through local media and the district website for at least two weeks prior to the meeting.
 - ☐ The district prepared a final plan for school board approval and such plan has been approved by the school board.
 - ☐ The final proposed plan that has been submitted has been posted on the district website.
4. Upload the final plan that was posted on the district's website.