

Smart Schools Investment Plan - Revised - Submission 1

SSIP Overview

Institution ID

800000038684

1. Please enter the name of the person to contact regarding this submission.

Joseph Reilly

1a. Please enter their phone number for follow up questions.

6076543858

1b. Please enter their e-mail address for follow up contact.

reilly.j.n@gmail.com

2. Please indicate below whether this is the first submission, a new or supplemental submission or an amended submission of an approved Smart Schools Investment Plan.

First submission

3. 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.

By checking this box, you certify that the school district has an approved District Instructional Technology Plan survey on file with the New York State Education Department.

☒ District Educational Technology Plan Submitted to SED and Approved

4. Pursuant to the requirements of the Smart Schools Bond Act, the planning process must include consultation with parents, teachers, students, community members, other stakeholders and any nonpublic schools located in the district.

By checking the boxes below, you are certifying that you have engaged with those required stakeholders. Each box must be checked prior to submitting your Smart Schools Investment Plan.

- ☒ Parents
- ☒ Teachers
- ☒ Students
- ☒ Community members

5. Did your district contain nonpublic schools in 2014-15?

- ☒ Yes
- ☐ Yes, but they have all since closed, moved out of district or are declining use of SSBA funds
- ☐ No

6. 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 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 must have been 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's website.

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- 6a. Please upload the proposed Smart Schools Investment Plan (SSIP) that was posted on the district's website, along with any supporting materials. Note that this should be different than your recently submitted Educational Technology Survey. The Final SSIP, as approved by the School Board, should also be posted on the website and remain there during the course of the projects contained therein.

Shen-SSBA-Presentation-3-2018.pdf

- 6b. Enter the webpage address where the final Smart Schools Investment Plan is posted. The Plan should remain posted for the life of the included projects.

<https://www.shenet.org/wp-content/uploads/2019/08/Shen-SSBA-Presentation-3-2018.pdf>

7. Please enter an estimate of the total number of students and staff that will benefit from this Smart Schools Investment Plan based on the cumulative projects submitted to date.

11,000

8. An LEA/School District may partner with one or more other LEA/School Districts to form a consortium to pool Smart Schools Bond Act funds for a project that meets all other Smart School Bond Act requirements. Each school district participating in the consortium will need to file an approved Smart Schools Investment Plan for the project and submit a signed Memorandum of Understanding that sets forth the details of the consortium including the roles of each respective district.

☐ The district plans to participate in a consortium to partner with other school district(s) to implement a Smart Schools project.

9. Please enter the name and 6-digit SED Code for each LEA/School District participating in the Consortium.

Partner LEA/District	SED BEDS Code
(No Response)	(No Response)

10. Please upload a signed Memorandum of Understanding with all of the participating Consortium partners.

(No Response)

11. Your district's Smart Schools Bond Act Allocation is:

\$3,926,194

12. Final 2014-15 BEDS Enrollment to calculate Nonpublic Sharing Requirement

	Public Enrollment	Nonpublic Enrollment	Total Enrollment	Nonpublic Percentage
Enrollment	9,803	192	9,995.00	1.92

13. This table compares each category budget total, as entered in that category's page, to the total expenditures listed in the category's expenditure table. Any discrepancies between the two must be resolved before submission.

	Sub-Allocations	Expenditure Totals	Difference
School Connectivity	349,966.00	349,966.00	0.00
Connectivity Projects for Communities	0.00	0.00	0.00
Classroom Technology	0.00	0.00	0.00
Pre-Kindergarten Classrooms	0.00	0.00	0.00
Replace Transportable Classrooms	0.00	0.00	0.00
High-Tech Security Features	3,079,222.00	3,079,222.00	0.00
Nonpublic Loan	6,194.48	6,194.48	0.00
Totals:			

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	Sub-Allocations	Expenditure Totals	Difference
	3,435,382	3,435,382	0

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School Connectivity

1. In order for students and faculty to receive the maximum benefit from the technology made available under the Smart Schools Bond Act, their school buildings must possess sufficient connectivity infrastructure to ensure that devices can be used during the school day. Smart Schools Investment Plans must demonstrate that:
- sufficient infrastructure that meets the Federal Communications Commission's 100 Mbps per 1,000 students standard currently exists in the buildings where new devices will be deployed, or
 - is a planned use of a portion of Smart Schools Bond Act funds, or
 - is under development through another funding source.

Smart Schools Bond Act funds used for technology infrastructure or classroom technology investments must increase the number of school buildings that meet or exceed the minimum speed standard of 100 Mbps per 1,000 students and staff within 12 months. This standard may be met on either a contracted 24/7 firm service or a "burstable" capability. If the standard is met under the burstable criteria, it must be:

1. Specifically codified in a service contract with a provider, and
2. Guaranteed to be available to all students and devices as needed, particularly during periods of high demand, such as computer-based testing (CBT) periods.

Please describe how your district already meets or is planning to meet this standard within 12 months of plan submission.

Shenendehowa Central Schools currently exceeds this standard.

- 1a. If a district believes that it will be impossible to meet this standard within 12 months, it may apply for a waiver of this requirement, as described on the Smart Schools website. The waiver must be filed and approved by SED prior to submitting this survey.

☐ By checking this box, you are certifying that the school district has an approved waiver of this requirement on file with the New York State Education Department.

2. **Connectivity Speed Calculator (Required).** If the district currently meets the required speed, enter "Currently Met" in the last box: Expected Date When Required Speed Will be Met.

	Number of Students	Required Speed in Mbps	Current Speed in Mbps	Expected Speed to be Attained Within 12 Months	Expected Date When Required Speed Will be Met
Calculated Speed	10,000	1,000.00	3000	3000	Currently met

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

Shenendehowa's long term goal is to continue to support both a one-to-one learning environment and a safe and secure campus. The wireless access points were upgraded 2 years ago providing saturation coverage in all locations.

The district is proposing to combine Smart Schools funds with Federal E-rate funds to upgrade the switch infrastructure in all buildings. These switches will be all Power Over Ethernet switches (POE). POE switches are essential both to continued support of the wireless access points by the power they stream, but they will also allow the district to maximize the through put on the network at 1 gig per second. Current switches don't have that capacity.

Additionally, this application proposes a significant upgrade to safety and security devices. These safety and security devices for classroom communication will all depend on reliable power over ethernet to operate.

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School Connectivity

4. Describe the linkage between the district's District Instructional Technology Plan and how the proposed projects will improve teaching and learning. (There should be a link between your response to this question and your responses to Question 1 in Section IV - NYSED Initiatives Alignment: "Explain how the district use of instructional technology will serve as a part of a comprehensive and sustained effort to support rigorous academic standards attainment and performance improvement for students.")

Your answer should also align with your answers to the questions in Section II - Strategic Technology Planning and the associated Action Steps in Section III - Action Plan.)

Shenendehowa recognizes the vital and primary role of teachers in providing students with the skills to enable long-term personal and professional success. Teachers work to make classrooms vibrant places of instruction, where students are engaged and content is presented in a dynamic and intellectually-engaging manner. The integration of technology serves as an important complement to the wide-array of instructional tools used in classrooms. Technology is used to enhance the instructional program by:

- Providing access to tools that enhance pedagogy and classroom lesson-design (presentation software, data analysis, collaboration)
- Actively engaging students in their learning
- Customizing instruction based on individual student needs
- Articulating the learning standards in well-developed, web-based curriculum maps
- Insuring a safe, secure and productive learning environment.

This project will support this vision by:

- Providing significant security enhancements to insure a safe, secure and productive learning environment.
- Providing generator power to maintain communication and wireless data services through power outages.
- Insure that all fiber optic connections provide optimal bandwidth to support instruction an operations throughout the district.
- Provide an alternate fiber optic path from district buildings to the district's disaster recovery center.
- Provide connectivity and instructional technology to newly renovated Technology, Engineering and Art classrooms.

5. 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.

Shenendehowa Central Schools has had a extensive one-to-one learning environment for several years. A robust wireless network is a key component to that. Every year, the Shenendehowa Technology staff works with the instructional leadership in each of their buildings and their district technology architect Engineered Solutions to evaluate the wireless capacity of their network. This team identifies each instructional space, the maximum number of students in those spaces, the wireless capacity in those spaces and the wireless requirements. If required, additional capacity is installed, and future potential expansion requirements are identified.

6. Smart Schools plans with any expenditures in the School Connectivity category require a project number from the Office of Facilities Planning. Districts must submit an SSBA LOI and receive project numbers prior to submitting the SSIP. As indicated on the LOI, some projects may be eligible for a streamlined review and will not require a building permit.

Please indicate on a separate row each project number given to you by the Office of Facilities Planning.

Project Number
52-03-02-06-7-999-005
52-03-02-06-07-999-BA1

7. Certain high-tech security and connectivity infrastructure projects may be eligible for an expedited review process as determined by the Office of Facilities Planning.

Was your project deemed eligible for streamlined review?

Yes

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- 7a. Districts that choose the Streamlined Review Process will be required to certify that they have reviewed all installations with their licensed architect or engineer of record and provide that person's name and license number. The licensed professional must review the products and proposed method of installation prior to implementation and review the work during and after completion in order to affirm that the work was code-compliant, if requested.

☒ I certify that I have reviewed all installations with a licensed architect or engineer of record.

8. Include the name and license number of the architect or engineer of record.

Name	License Number
Eric Sheffer	81621

9. Public Expenditures – Loanable (Counts toward the nonpublic loan calculation)

Select the allowable expenditure type. Repeat to add another item under each type.	PUBLIC Items to be Purchased	Quantity	Cost Per Item	Total Cost
Network/Access Costs	WS-C2960X-48FPD-L	67	3,582.00	239,994.00
Network/Access Costs	C9300-48UXM-E	1	12,140.00	12,140.00
Network/Access Costs	AIR-AP2802E-B-K9 40% Erate Discount	20	389.00	7,780.00
Internal Components and Connections	AIR-ANT2524DW-R Erate 40% discount	80	21.00	1,680.00
Internal Components and Connections	C9300-NM-8X	1	2,550.00	2,550.00
Internal Components and Connections	SFP-H10GB-CU5M=	6	67.00	402.00
Internal Components and Connections	SFP-10G-LRM= Erate 40% discount	128	296.00	37,888.00
Internal Components and Connections	PWR-CLP pkg of 100	1	852.00	852.00
Network/Access Costs	SW2802-CAPWAP-K9	20	648.00	12,960.00
		324	20,545.00	316,246

10. Public Expenditures – Non-Loanable (Does not count toward nonpublic loan calculation)

Select the allowable expenditure type. Repeat to add another item under each type.	PUBLIC Items to be purchased	Quantity	Cost per Item	Total Cost
Connections/Components	Reterminate existing fiber infrastructure	400	44.00	17,600.00
Other Upfront Costs	C9300-DNA-E-48-3Y	1	1,120.00	1,120.00
Connections/Components	Install 2500 ft Single Mode Fiber	2,500	6.00	15,000.00
		2,901	1,170.00	33,720

11. Final 2014-15 BEDS Enrollment to calculate Nonpublic Sharing Requirement (no changes allowed.)

	Public Enrollment	Nonpublic Enrollment	Total Enrollment	Nonpublic Percentage
Enrollment	9,803	192	9,995.00	1.92

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School Connectivity

12. Total Public Budget - Loanable (Counts toward the nonpublic loan calculation)

	Public Allocations	Estimated Nonpublic Loan Amount	Estimated Total Sub-Allocations
Network/Access Costs	272,874.00	5,344.93	278,218.93
School Internal Connections and Components	43,372.00	849.55	44,221.55
Other	0.00	0.00	0.00
Totals:	316,246.00	6,194	322,440

13. Total Public Budget – Non-Loanable (Does not count toward the nonpublic loan calculation)

	Sub-Allocation
Network/Access Costs	0.00
Outside Plant Costs	0.00
School Internal Connections and Components	32,600.00
Professional Services	0.00
Testing	0.00
Other Upfront Costs	1,120.00
Other Costs	0.00
Totals:	33,720.00

14. School Connectivity Totals

	Total Sub-Allocations
Total Loanable Items	322,440.48
Total Non-loanable Items	33,720.00
Totals:	356,160

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Community Connectivity (Broadband and Wireless)

1. Describe how you intend to use Smart Schools Bond Act funds for high-speed broadband and/or wireless connectivity projects in the community.

(No Response)

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.

(No Response)

3. Community connectivity projects must comply with all the necessary local building codes and regulations (building and related permits are not required prior to plan submission).

☐ I certify that we will comply with all the necessary local building codes and regulations.

4. Please describe the physical location of the proposed investment.

(No Response)

5. Please provide the initial list of partners participating in the Community Connectivity Broadband Project, along with their Federal Tax Identification (Employer Identification) number.

Project Partners	Federal ID #
(No Response)	(No Response)

6. Please detail the type, quantity, per unit cost and total cost of the eligible items under each sub-category.

Select the allowable expenditure type. Repeat to add another item under each type.	Item to be purchased	Quantity	Cost per Item	Total Cost
(No Response)	(No Response)	(No Response)	(No Response)	0.00
		0	0.00	0

7. 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.

	Sub-Allocation
Network/Access Costs	(No Response)
Outside Plant Costs	(No Response)
Tower Costs	(No Response)
Customer Premises Equipment	(No Response)
Professional Services	(No Response)
Testing	(No Response)
Other Upfront Costs	(No Response)
Other Costs	(No Response)
Totals:	0.00

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Classroom Learning Technology

1. In order for students and faculty to receive the maximum benefit from the technology made available under the Smart Schools Bond Act, their school buildings must possess sufficient connectivity infrastructure to ensure that devices can be used during the school day. Smart Schools Investment Plans must demonstrate that sufficient infrastructure that meets the Federal Communications Commission's 100 Mbps per 1,000 students standard currently exists in the buildings where new devices will be deployed, or is a planned use of a portion of Smart Schools Bond Act funds, or is under development through another funding source. Smart Schools Bond Act funds used for technology infrastructure or classroom technology investments must increase the number of school buildings that meet or exceed the minimum speed standard of 100 Mbps per 1,000 students and staff within 12 months. This standard may be met on either a contracted 24/7 firm service or a "burstable" capability. If the standard is met under the burstable criteria, it must be:

1. Specifically codified in a service contract with a provider, and
2. Guaranteed to be available to all students and devices as needed, particularly during periods of high demand, such as computer-based testing (CBT) periods.

Please describe how your district already meets or is planning to meet this standard within 12 months of plan submission.

(No Response)

- 1a. If a district believes that it will be impossible to meet this standard within 12 months, it may apply for a waiver of this requirement, as described on the Smart Schools website. The waiver must be filed and approved by SED prior to submitting this survey.

☐ By checking this box, you are certifying that the school district has an approved waiver of this requirement on file with the New York State Education Department.

2. **Connectivity Speed Calculator (Required).** If the district currently meets the required speed, enter "Currently Met" in the last box: Expected Date When Required Speed Will be Met.

	Number of Students	Required Speed in Mbps	Current Speed in Mbps	Expected Speed to be Attained Within 12 Months	Expected Date When Required Speed Will be Met
Calculated Speed	(No Response)	0.00	(No Response)	(No Response)	(No Response)

3. 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.

(No Response)

4. 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.

☐ By checking this box, you are certifying that the school district has an approved Instructional Technology Plan survey on file with the New York State Education Department.

5. Describe the devices you intend to purchase and their compatibility with existing or planned platforms or systems. Specifically address the adequacy of each facility's electrical, HVAC and other infrastructure necessary to install and support the operation of the planned technology.

(No Response)

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Classroom Learning Technology

6. Describe how the proposed technology purchases will:
- > enhance differentiated instruction;
 - > expand student learning inside and outside the classroom;
 - > benefit students with disabilities and English language learners; and
 - > contribute to the reduction of other learning gaps that have been identified within the district.

The expectation is that districts will place a priority on addressing the needs of students who struggle to succeed in a rigorous curriculum. Responses in this section should specifically address this concern and align with the district's Instructional Technology Plan (in particular Question 2 of E. Curriculum and Instruction: "Does the district's instructional technology plan address the needs of students with disabilities to ensure equitable access to instruction, materials and assessments?" and Question 3 of the same section: "Does the district's instructional technology plan address the provision of assistive technology specifically for students with disabilities to ensure access to and participation in the general curriculum?")

In addition, describe how the district ensures equitable access to instruction, materials and assessments and participation in the general curriculum for both SWD and English Language Learners/Multilingual Learners (ELL/MLL) students.

(No Response)

7. Where appropriate, 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.

(No Response)

8. 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.

Note: This response should be aligned and expanded upon in accordance with your district's response to Question 1 of F. Professional Development of your Instructional Technology Plan: "Please provide a summary of professional development offered to teachers and staff, for the time period covered by this plan, to support technology to enhance teaching and learning. Please include topics, audience and method of delivery within your summary."

(No Response)

9. Districts must contact one of the SUNY/CUNY teacher preparation programs listed on the document on the left side of the page 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.

☐ By checking this box, you certify that you have contacted the SUNY/CUNY teacher preparation program that supplies the largest number of your new teachers to request advice on these issues.

- 9a. Please enter the name of the SUNY or CUNY Institution that you contacted.

(No Response)

- 9b. Enter the primary Institution phone number.

(No Response)

- 9c. Enter the name of the contact person with whom you consulted and/or will be collaborating with on innovative uses of technology and best practices.

(No Response)

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Classroom Learning Technology

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.

☐ By checking this box, you certify that the district has a sustainability plan as described above.

11. Districts must ensure that devices purchased with Smart Schools Bond funds will be distributed, prepared for use, maintained and supported appropriately. Districts must maintain detailed device inventories in accordance with generally accepted accounting principles.

☐ By checking this box, you certify that the district has a distribution and inventory management plan and system in place.

12. Please detail the type, quantity, per unit cost and total cost of the eligible items under each sub-category.

Select the allowable expenditure type. Repeat to add another item under each type.	Item to be Purchased	Quantity	Cost per Item	Total Cost
(No Response)	(No Response)	(No Response)	(No Response)	0.00
		0	0.00	0

13. Final 2014-15 BEDS Enrollment to calculate Nonpublic Sharing Requirement (no changes allowed.)

	Public Enrollment	Nonpublic Enrollment	Total Enrollment	Nonpublic Percentage
Enrollment	9,803	192	9,995.00	1.92

14. If you are submitting an allocation for Classroom Learning Technology complete this table.

	Public School Sub-Allocation	Estimated Nonpublic Loan Amount (Based on Percentage Above)	Estimated Total Public and Nonpublic Sub-Allocation
Interactive Whiteboards	(No Response)	0.00	0.00
Computer Servers	(No Response)	0.00	0.00
Desktop Computers	(No Response)	0.00	0.00
Laptop Computers	(No Response)	0.00	0.00
Tablet Computers	(No Response)	0.00	0.00
Other Costs	(No Response)	0.00	0.00
Totals:	0.00	0	0

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Pre-Kindergarten Classrooms

1. Provide information regarding how and where the district is currently serving pre-kindergarten students and justify the need for additional space with enrollment projections over 3 years.

(No Response)

2. Describe the district's plan to construct, enhance or modernize education facilities to accommodate pre-kindergarten programs. Such plans must include:

- Specific descriptions of what the district intends to do to each space;
- An affirmation that new pre-kindergarten classrooms will contain a minimum of 900 square feet per classroom;
- The number of classrooms involved;
- The approximate construction costs per classroom; and
- Confirmation that the space is district-owned or has a long-term lease that exceeds the probable useful life of the improvements.

(No Response)

3. Smart Schools Bond Act funds may only be used for capital construction costs. Describe the type and amount of additional funds that will be required to support ineligible ongoing costs (e.g. instruction, supplies) associated with any additional pre-kindergarten classrooms that the district plans to add.

(No Response)

4. All plans and specifications for the erection, repair, enlargement or remodeling of school buildings in any public school district in the State must be reviewed and approved by the Commissioner. Districts that plan capital projects using their Smart Schools Bond Act funds will undergo a Preliminary Review Process by the Office of Facilities Planning.

Please indicate on a separate row each project number given to you by the Office of Facilities Planning.

Project Number
(No Response)

5. Please detail the type, quantity, per unit cost and total cost of the eligible items under each sub-category.

Select the allowable expenditure type. Repeat to add another item under each type.	Item to be purchased	Quantity	Cost per Item	Total Cost
(No Response)	(No Response)	(No Response)	(No Response)	0.00
		0	0.00	0

6. If you have made an allocation for Pre-Kindergarten Classrooms, 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.

	Sub-Allocation
Construct Pre-K Classrooms	(No Response)
Enhance/Modernize Educational Facilities	(No Response)
Other Costs	(No Response)
Totals:	0.00

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Replace Transportable Classrooms

1. Describe the district's plan to construct, enhance or modernize education facilities to provide high-quality instructional space by replacing transportable classrooms.

(No Response)

2. All plans and specifications for the erection, repair, enlargement or remodeling of school buildings in any public school district in the State must be reviewed and approved by the Commissioner. Districts that plan capital projects using their Smart Schools Bond Act funds will undergo a Preliminary Review Process by the Office of Facilities Planning.

Please indicate on a separate row each project number given to you by the Office of Facilities Planning.

Project Number
(No Response)

3. For large projects that seek to blend Smart Schools Bond Act dollars with other funds, please note that Smart Schools Bond Act funds can be allocated on a pro rata basis depending on the number of new classrooms built that directly replace transportable classroom units.

If a district seeks to blend Smart Schools Bond Act dollars with other funds describe below what other funds are being used and what portion of the money will be Smart Schools Bond Act funds.

(No Response)

4. Please detail the type, quantity, per unit cost and total cost of the eligible items under each sub-category.

Select the allowable expenditure type. Repeat to add another item under each type.	Item to be purchased	Quantity	Cost per Item	Total Cost
(No Response)	(No Response)	(No Response)	(No Response)	0.00
		0	0.00	0

5. If you have made an allocation for Replace Transportable Classrooms, 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.

	Sub-Allocation
Construct New Instructional Space	(No Response)
Enhance/Modernize Existing Instructional Space	(No Response)
Other Costs	(No Response)
Totals:	0.00

Smart Schools Investment Plan - Revised - Submission 1**High-Tech Security Features****1. Describe how you intend to use Smart Schools Bond Act funds to install high-tech security features in school buildings and on school campuses.**

All students deserve the opportunity to learn in a safe and secure environment. Shenendehowa has a particularly larger challenge as it is the largest central school district in New York state. In fact, it is larger than many of the neighboring colleges including Sienna and the College of St. Rose. In the event of an emergency, this presents a particular problem. Clear, concise, and accurate communication in a timely fashion with all of the students and staff in the district. Currently, they have two divergent systems for communication. The first is an antiquated, analog phone system. This phone system has no emergency capacities when it functions correctly, and it is often not functioning correctly. The second are the antiquated public address (PA) systems in all of the buildings. These systems are also analog systems, they can only be used at the "head end" locations, and have no capacity for management.

Shenendehowa Central Schools is proposing an upgrade of both of these systems. First, both systems will be converted to digital systems. This will give them extended emergency capacities for specific locations messaging, and access from a multitude of locations. In fact, the PA system will now be accessible from any room in the building. A designated faculty member can dial the emergency extension number from any telephone and immediately be linked to the paging system. A principal would not need to call the office to have a "lock down" initiated. The system will be routed through the computer IP network. Many of the public address locations depend on analog wiring that has been patched and spliced numerous times over many many years. By routing through the network, the district can depend on modern cabling and a system that can be tested on a daily basis. The district IT staff can check the system and identify troubles before there is an event and resolve it before the system is needed.

The second upgrade is for the actual phone system. The district is proposing to upgrade their phone system to a Voice over Internet Protocol system. Again, by moving to the IP based system, phones can be located any place in the district that there is a computer drop. They can be tested automatically every day, and reliable, emergency communication can be achieved. Additionally, the district can pre-load emergency messages and deliver them to a single phone, a group of phones, or even every phone in the district. They can deliver a concise message in a timely fashion eliminating confusion and lost messages.

The third upgrade is for uninterrupted power for the buildings. These buildings depend on electrical service to operate "life essential" operations. In the event of a power outage emergency communication with the classrooms via the emergency classroom communication systems ceases to function. All of the doors with entry control systems fail in the locked status. The video security system ceases to record events. The lack of these systems would create a serious vulnerability in the case of an occupied or an unoccupied building. This includes, Shenendehowa Central Schools proposes to equip several of the buildings with power fail transfer generators to support the safety of their community.

2. All plans and specifications for the erection, repair, enlargement or remodeling of school buildings in any public school district in the State must be reviewed and approved by the Commissioner. Smart Schools plans with any expenditures in the High-Tech Security category require a project number from the Office of Facilities Planning. Districts must submit an SSBA LOI and receive project numbers prior to submitting the SSIP. As indicated on the LOI, some projects may be eligible for a streamlined review and will not require a building permit. Please indicate on a separate row each project number given to you by the Office of Facilities Planning.

Project Number
52-03-02-06-7-999-BA1
52-03-02-06-7-999-005

3. Was your project deemed eligible for streamlined Review?

- ☒ Yes
☐ No

3a. Districts with streamlined projects must certify that they have reviewed all installations with their licensed architect or engineer of record, and provide that person's name and license number. The licensed professional must review the products and proposed method of installation prior to implementation and review the work during and after completion in order to affirm that the work was code-compliant, if requested.

☒ By checking this box, you certify that the district has reviewed all installations with a licensed architect or engineer of record.

4. Include the name and license number of the architect or engineer of record.

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High-Tech Security Features

Name	License Number
Eric Sheffer	81621

5. Please detail the type, quantity, per unit cost and total cost of the eligible items under each sub-category.

Select the allowable expenditure type. Repeat to add another item under each type.	Item to be purchased	Quantity	Cost per Item	Total Cost
Electronic Security System	ARMS-ARS Professional Services - Annese Remote Support, 30 Hours	30	92.00	2,760.00
Capital-Intensive Security Project	400 AMP transfer switch	3	5,000.00	15,000.00
Capital-Intensive Security Project	30 Amp Feeder	1,380	7.00	9,660.00
Electronic Security System	VMW-VS6-FND-K9 Embedded License, Cisco UC Virt. Foundation 6.x (2-socket)	3	1,270.00	3,810.00
Electronic Security System	TC25VTL module Rauland	36	82.00	2,952.00
Electronic Security System	IM-162-1E Imagicle call recording 1 channel exp	62	550.00	34,100.00
Electronic Security System	TCC2022 ZPM-1 Rauland	42	473.00	19,866.00
Capital-Intensive Security Project	200 AMP 208 volt panel	1	9,000.00	9,000.00
Electronic Security System	ISR4321-V/K9 Cisco ISR 4321 Bundle, w/UC License, CUBE-10	5	1,573.00	7,865.00
Electronic Security System	TCC2044 ADM-1 Rauland	15	1,800.00	27,000.00
Electronic Security System	CP-8800-A-KEM= 8800 Series Audio KEM, 28 Button	44	248.00	10,912.00
Electronic Security System	PS-SNY-ADV Project Completion - Project Management	1	27,557.00	27,557.00
Electronic Security System	KE4226 CyberData VoIP V3 Paging Server	12	499.00	5,988.00
Electronic Security System	BAFKIT1X2SRJ No tag - new lay in tile speaker Rauland	60	71.00	4,260.00
Electronic Security System	NE4250.25 AMP-1 Ashly	21	3,000.00	63,000.00
Electronic Security System	PD915R No tag - power supplies Middle Atlantic	15	94.00	1,410.00
Capital-Intensive Security Project	200 amp 480 Panel	2	9,000.00	18,000.00
Electronic Security System	IML100-1000L imagicle BillyBlues	1	16,000.00	16,000.00
Capital-Intensive Security Project	150 KW generator	1	95,000.00	95,000.00

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High-Tech Security Features

Select the allowable expenditure type. Repeat to add another item under each type.	Item to be purchased	Quantity	Cost per Item	Total Cost
Electronic Security System	Contingencies including contract fees, architect fees and permits	1	79,774.00	79,774.00
Electronic Security System	TCC2024 GW-1 Rauland	2	7,500.00	15,000.00
Electronic Security System	ISR4351-V/K9 Cisco ISR 4351 UC Bundle, PVDM4-64, UC License, CUBEE25	5	5,588.00	27,940.00
Electronic Security System	SP-INFCST-1-1K= 1YR InformaCast Advance licensing 1K Endpoints	1	17,713.00	17,713.00
Electronic Security System	LIC-CUCM-12X-ENH UC Manager-12.x Enhanced Single User License	2,653	109.00	289,177.00
Electronic Security System	New rack allowance No tag Middle Atlantic	1	500.00	500.00
Capital-Intensive Security Project	60 Amp Feeder	1,600	20.00	32,000.00
Electronic Security System	ACC1300 No tag - 10 watt volume control Rauland	15	27.00	405.00
Electronic Security System	Labor Onsite Subcontractor	1	315,504.00	315,504.00
Capital-Intensive Security Project	100 AMP 208 Volt Panel	2	14,000.00	28,000.00
Electronic Security System	BE7M-M5-K9 Cisco Business Edition 7000M (M5) Appliance, Export Restr SW	3	15,240.00	45,720.00
Electronic Security System	CON-ECMU-UNITYDNR SWSS UPGRADES One Unity Connection 12.x Voice Messagin	1,172	11.00	12,892.00
Capital-Intensive Security Project	200 Amp Transfer Switch	2	5,000.00	10,000.00
Capital-Intensive Security Project	UPS & Outlet	33	7,303.00	240,999.00
Capital-Intensive Security Project	225 amp panel	1	10,000.00	10,000.00
Electronic Security System	UNITYCN12-STD-USR One Unity Connection 12.x Voice Messaging User	2,600	38.00	98,800.00
Electronic Security System	PS-SNY-ADV Professional Services - Construction Contingencies including Fees and project registration costs	1	5,000.00	5,000.00
Electronic Security System	TCC2099 No tag - rack mount kit Rauland	22	55.00	1,210.00
Electronic Security System	PS-SNY-ADV Professional Services - System programming and installation	1	99,299.00	99,299.00

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High-Tech Security Features

Select the allowable expenditure type. Repeat to add another item under each type.	Item to be purchased	Quantity	Cost per Item	Total Cost
Electronic Security System	CON-ECMU-LICC1CMS SWSS UPGRADES UC Manager-12.x Essential User License	28	4.00	112.00
Electronic Security System	CON-ECMU-SRSTGTEP SWSS UPGRADES Cisco SRST - 1 SRST Endpoint License	820	2.00	1,640.00
Electronic Security System	CP-8831-K9= Cisco 8831 Base/Control Panel for North America	33	912.00	30,096.00
Electronic Security System	SMA-6RO-1008-1 TCS-1 Sapling	10	5,000.00	50,000.00
Electronic Security System	CON-ECMU-LICCUCHM SWSS UPGRADES UC Manager-12.x Enhanced Single User Lic	1,203	24.00	28,872.00
Electronic Security System	CP-8851-K9= Cisco IP Phone 8851	44	313.00	13,772.00
Other Costs	Architect fees	1	288,000.00	288,000.00
Electronic Security System	Nexia CS Biamp-1 Biamp	12	3,000.00	36,000.00
Electronic Security System	CON-ECMU-VMWVS6FN SWSS UPGRADES Embedded License, Cisco UC Virt. Foundation	3	210.00	630.00
Electronic Security System	TG6765 CyberData Rack Mount	14	129.00	1,806.00
Electronic Security System	New horn/speaker - new speakers Rauland	1	500.00	500.00
Electronic Security System	Consumables allowance, miscellaneous cables, connectors, rack blanks, accessories, termination needs Middle Atlantic	15	500.00	7,500.00
Capital-Intensive Security Project	Construction Contingency	1	100,000.00	100,000.00
Electronic Security System	SSL-CERT-UC-2B COMODO SSL Unified Communications Certificate, 2Yr, 4-250 Domains (price per domain)	1	48.00	48.00
Electronic Security System	FL-CUBEE-100-RED Unified Border Element Ent Lic, 100 Sessions, Redundancy	3	6,602.00	19,806.00
Electronic Security System	NIM-2FXS/4FXOP 2-Port FXS/FXS-E/DID and 4-Port FXO Network Interface Module	14	711.00	9,954.00
Capital-Intensive Security Project	400 amp 208 volt panel	3	14,000.00	42,000.00
Capital-Intensive Security Project	400 Amp Feeder	280	95.00	26,600.00
Electronic Security System	TCC2033 AUX-1 Rauland	8	473.00	3,784.00

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High-Tech Security Features

Select the allowable expenditure type. Repeat to add another item under each type.	Item to be purchased	Quantity	Cost per Item	Total Cost
Electronic Security System	CP-8841-K9= Cisco IP Phone 8841	280	262.00	73,360.00
Electronic Security System	SRST-EP Cisco SRST - 1 SRST Endpoint License	1,236	16.00	19,776.00
Capital-Intensive Security Project	200 Amp Feeder	365	50.00	18,250.00
Electronic Security System	JBM70 MIC-1 Audix	35	392.00	13,720.00
Capital-Intensive Security Project	100 Amp Feeder	100	25.00	2,500.00
Electronic Security System	CON-ECMU-UWLT12XS SWSS UPGRADES CUWL Standard 12.x Users - Service Use O	33	37.00	1,221.00
Electronic Security System	CP-7841-K9= Cisco UC Phone 7841	923	186.00	171,678.00
Electronic Security System	IM-162-2L imagicle 2 channel base recording	2	2,750.00	5,500.00
Electronic Security System	TCC2000 CC-1 Rauland	10	4,500.00	45,000.00
Capital-Intensive Security Project	60 amp 208 volt panel	3	7,000.00	21,000.00
Capital-Intensive Security Project	120 KW Generator	4	85,000.00	340,000.00
Electronic Security System	SSL-CERT-UC-2A COMODO SSL Unified Communications Certificate, 2Yr, 3 Domains (price per domain)	11	184.00	2,024.00
		15,346	1,274,922.00	3,079,222

6. If you have made an allocation for High-Tech Security Features, complete this table.
Enter each Sub-category Public Allocation based on the the expenditures listed in Table #5.

	Sub-Allocation
Capital-Intensive Security Project (Standard Review)	1,018,009.00
Electronic Security System	1,773,213.00
Entry Control System	0.00
Approved Door Hardening Project	0.00
Other Costs	288,000.00
Totals:	3,079,222.00

Smart Schools Investment Plan - Revised - Submission 1

Non-Public Schools

1. Describe your plan to utilize SSBA funds to purchase devices and loan to the nonpublic schools within your district. Please specify what devices have been requested by the nonpublic schools. If the nonpublic schools have not finalized requests, the district should provide the date nonpublic schools will submit the request by.

Shenendehowa Central Schools has a strong relationship with their Non-Public partners. Those organization have high expectations for their students. Sara Marie School is anxious to engage their students via an interactive white board and has requested a Promethean ActivBoard Touch 88" Interactive board and a Casio Projector to help their students with class presentations and peer review of tasks. St. George's School wishes to tap into Google Classroom for the most students possible and has requested Android tablets. These tablets have full Google capacity and take advantage of the graphic interaction that some of the younger students depend on. Both Mother Theresa School and Learning to Know school have requested Chromebooks similar to those employed by the Shenendehowa Schools.

2. A final Smart Schools Investment Plan cannot be approved until school authorities have adopted regulations specifying the date by which requests from nonpublic schools for the purchase and loan of Smart Schools Bond Act classroom technology must be received by the district.

☒ By checking this box, you certify that you have such a plan and associated regulations in place that have been made public.

- 2a. Please enter the date each year nonpublic schools must request loanable items from the school district. This date cannot be earlier than June 1 of the previous school year.

June 30

3. Final 2014-15 BEDS Enrollment to calculate Nonpublic Sharing Requirement (no changes allowed.)

	Public Enrollment	Nonpublic Enrollment	Total Enrollment	Nonpublic Percentage
Enrollment	9,803	192	9,995.00	1.92

4. Nonpublic Loan Calculator

	Loanable School Connectivity	Loanable Classroom Technology	Additional Nonpublic Loan (Optional)	Estimated Per Pupil Amount - This Plan	Previously Approved Per Pupil Amount(s)	Cumulative Per Pupil Loan Amount	Final Per Pupil Loan Amount - This Plan	Final Total Loan Amount - This Plan
Required Nonpublic Loan	322,439.94	0.00		32.26	0.00	32.26	32.26	6,193.94
Final Adjusted Loan - (If additional loan funds)	322,440.48	0.00	0.54	32.26	0.00	32.26	32.26	6,194.48

5. Nonpublic Share

	Final Per Pupil Amount	Final Nonpublic Loan Amount
Pending and Previously Approved Plans	0.00	0.00
This Plan	32.26	6,194.48
Total	32.26	6,194.48

6. Distribution of Nonpublic Loan Amount by School

Nonpublic School Name	2018-19 K-12 Enrollment	Special Ed School? If Yes, not eligible
LEARNING TO KNOW EDUCATIONAL CENTER	18	No
MOTHER TERESA ACADEMY	23	No
SARA MARIE SCHOOL (THE)	33	No
ST GEORGE'S SCHOOL	25	No

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Non-Public Schools

7. Please detail the type, quantity and per unit cost of the eligible items under each sub-category.

Select the allowable expenditure type. Repeat to add another item under each type.	Items to be purchased	Quantity	Cost Per Item	Total Cost
Laptop Computers	Chromebooks	7	315.00	2,205.00
Interactive Whiteboards	Active Touch 65	1	1,300.00	1,300.00
Other Costs	Casio Projector XJF-100	1	850.00	850.00
Tablet Computers	Android Tablet	8	200.00	1,600.00
Unbudgeted Nonpublic Loan Amount	Un-budgeted amount	1	239.48	239.48
		18	2,904.48	6,194