

Smart Schools Investment Plan - 2016-17 Version (Original) - CVS Smart Schools investment 9/17

SSIP Overview

Page Last Modified: 10/04/2018

Institution ID

800000039773

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

TheriJo Climenhaga

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

607-264-9332

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

tclimenhaga@cvsd.org

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

- 4a. If your district contains non-public schools, have you provided a timely opportunity for consultation with these stakeholders?

☐ Yes

☐ No

☒ N/A

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5. **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.

- 5a. **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.**

Preliminary SSIP (1).pdf

- 5b. **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.**

<http://filecabinet4.eschoolview.com/1146810A-A2B6-4D4E-973E-B9BCE52E8309/PreliminarySSIP.pdf>

6. **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.**

485

7. **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.

8. **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)

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

(No Response)

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

\$618,522

11. **Enter the budget sub-allocations by category that you are submitting for approval at this time. If you are not budgeting SSBA funds for a category, please enter 0 (zero.) If the value entered is \$0, you will not be required to complete that survey question.**

	Sub-Allocations
School Connectivity	366,122
Connectivity Projects for Communities	

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	Sub-Allocations
	0
Classroom Technology	108,517
Pre-Kindergarten Classrooms	0
Replace Transportable Classrooms	0
High-Tech Security Features	128,298
Totals:	602,937

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School Connectivity

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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.

The Cherry Valley-Springfield Central School district presently has 485 students.

The district currently has a 1 GB connection.

Currently our LAN wired Network exceeds the FCC specifications that have been set. The District current enrollment is 485. The minimum speed standard is 100 Mbps per 1,000 or .1 Mbps per student. The minimum requirement for the district would be 100 compared to the current 1000 Mbps provided by the district.

- 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)

	Number of Students	Multiply by 100 Kbps	Divide by 1000 to Convert to Required Speed in Mb	Current Speed in Mb	Expected Speed to be Attained Within 12 Months	Expected Date When Required Speed Will be Met
Calculated Speed	485	48,500	48.5	1000	1Gbps	Complete

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

Cherry Valley – Springfield Central Schools intends to use Smart Schools Bond Act funds for high-speed broadband and/or wireless connectivity projects in school buildings based on recommendations made in our Information Technology Infrastructure Assessment prepared by the South Central Regional Information Center. CVSCS will also upgrade all copper and fiber cabling throughout our building.

The assessment prepared by SCRIC provided a review of the current IT infrastructure at CVSCS and provided recommendations for improvements and continued reliability. The report covers five critical sections, addressing the Server and Storage infrastructure, the Core Network infrastructure, the Firewall and Content Filter infrastructure, the Voice Systems infrastructure, and UPS and Wireless infrastructures.

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4. Describe the linkage between the district's District Instructional Technology Plan and the proposed projects. (There should be a link between your response to this question and your response to Question 1 in Part E. Curriculum and Instruction "What are the district's plans to use digital connectivity and technology to improve teaching and learning?")

The primary focus of our district's District Instructional Technology Plan is Digital Conversion: To transform instruction from a paper-based world to a primarily digital world, in which every student and teacher has access to a personal computing device and the Internet anytime and anywhere. The moral obligation to bridge the "Digital Divide" is the driving force behind our digital conversion initiative. Whether students are preparing for college, the workplace, the military, or just to function in 21st-century society, they need to know how to use digital tools and online content, sort and manage information, and work in the technology based world. The proposed projects will provide the infrastructure necessary for Digital Conversion.

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.

Wireless Networking

Current Conditions: The district currently utilizes Aruba Instant access points, specifically IAP-105 series units. There are 52 active access points deployed. Recommended Changes: It should be noted that both the AP-105 units in use have an end-of-sale date of 8/1/15 with an end-of-support date of 8/1/20. More important than the end-of-support date on the existing access points is the lack of support for the 802.11ac wireless specification. The existing n-class AP units will only be able to provide n-class service to new ac-class devices. This will impact overall capacity of the wireless network as n-class access points are capable of up to 450Mb of throughput, while ac-class devices are rated at 1,300Mb and beyond. The district currently uses "Instant" APs that do not require a controller. These units have limited functionality compared to controller based units, but do not incur the licensing and support costs of a controller based installation.

6. As indicated on Page 5 of the guidance, the Office of Facilities Planning will have to conduct a preliminary review of all capital projects, including connectivity projects.
Please indicate on a separate row each project number given to you by the Office of Facilities Planning.

Project Number
47-22-02-04-0-004-011

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?

No

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

Name	License Number
Griffith Dardanelli Architects, PC	24442

9. If you are submitting an allocation for School 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	111,944

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	Sub-Allocation
Outside Plant Costs	0
School Internal Connections and Components	254,178
Professional Services	0
Testing	0
Other Upfront Costs	0
Other Costs	0
Totals:	366,122

10. Please detail the type, quantity, per unit cost and total cost of the eligible items under each sub-category. This is especially important for any expenditures listed under the "Other" category. All expenditures must be eligible for tax-exempt financing to be reimbursed through the SSBA. Sufficient detail must be provided so that we can verify this is the case. If you have any questions, please contact us directly through smartschools@nysed.gov.
NOTE: Wireless Access Points should be included in this category, not under Classroom Educational Technology, except those that will be loaned/purchased for nonpublic schools.
Add rows under each sub-category for additional items, as needed.

Select the allowable expenditure type. Repeat to add another item under each type.	Item to be purchased	Quantity	Cost per Item	Total Cost
Network/Access Costs	Dell PowerEdge R530 File Server w/3 year warranty	1	9,294	9,294
Network/Access Costs	Dell PowerEdge R330 Imaging Server w/3 year warranty	1	3,250	3,250
Network/Access Costs	HP 5406 Chassis switch 100x1Gb Copper & 20xSFP+	1	18,000	18,000
Network/Access Costs	1x48 port 2920 w/2 SFP+ ports	3	3,800	11,400
Network/Access Costs	1x48, & 1x24 port 2920 w/2SFP+ ports	3	6,300	18,900
Network/Access Costs	1x24 port 2920 (no 10Gb SFP+)	1	1,700	1,700
Connections/Components	Sophos SG 550	2	9,000	18,000
Network/Access Costs	APC 4kVA Symmetra UPS	1	6,600	6,600
Network/Access Costs	APC 1500VA UPS	7	1,400	9,800
Network/Access Costs	AP-305	49	348	17,052
Network/Access Costs	AP-325	4	698	2,792
Network/Access Costs	7205 Controller w/64 license bundle and 10Gb DA cable	1	11,156	11,156
Connections/Components	Fiberdyne Material & Labor	1	234,928	234,928
Connections/Components	Configuration of Servers	1	1,250	1,250
Network/Access Costs	Warranty for Sophos SG 550	2	1,000	2,000

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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.

The district currently exceeds the Federal Communications Commission minimum speed standard of 100 Mbps per 1,000 students with 1 Gbps (1,000 Mbps) for a student population of 485.

- 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)

	Number of Students	Multiply by 100 Kbps	Divide by 1000 to Convert to Required Speed in Mb	Current Speed in Mb	Expected Speed to be Attained Within 12 Months	Expected Date When Required Speed Will be Met
Calculated Speed	485	48,500	48.5	1000	1 Gbps	Complete

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.

The District is planning to upgrade our Wireless network with new Access Points in nearly every classroom and other strategic locations throughout the building.

Currently our Wireless Network consists of approximately 40 Access points.

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.

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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.

The Chromebooks, Dell laptops, and iMacs are all compatible with current and planned systems. Our facility's electrical and HVAC systems are up to date and the planned projects under school connectivity will prepare our infrastructure.

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?"

Classroom Technology Purchases will:

Enhance Differentiated Instruction

Chromebooks will provide students with readily available, various pathways to learning. When students and teachers login to their Google Apps account they have access to a wide-variety of free web-based tools including word processing, spreadsheet, and publishing applications. These tools cater to all student learning styles and allow personalized instruction.

Interactive Projection also allows different strategies and approaches for differentiating instruction.

Expand Student Learning Inside and Outside the Classroom

A 1-1 Chromebook program allows for students to learn inside and outside the classroom. These blended learning strategies give students agency over time, place and path of their learning. Students can simultaneously collaborate with both peers and teachers to achieve educational goals.

Benefit students with disabilities and English language learners

Chromebooks are an excellent assistive technology that offer apps and extensions that provide support for students with learning disabilities and ELL students. There are a wide-variety of growing tools they make accessibility using technology more and more affordable and user friendly, including tools such as embedded speech-to-text, full-page translations or add-ons for magnification and screen readers.

Contribute to the Reduction of other Learning Gaps that have been identified by the District

The Cherry Valley-Springfield Central School Digital Conversion Team meets periodically throughout the school year to explore methods for an effective Digital Conversion.

The team has identified the following gaps:

- District-wide Digital Divide
- Eliminating the device gap by providing every student with a Chromebook
- Promoting great broadband connectivity throughout the district
- Professional development

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.

The Cherry Valley-Springfield Central School District will continue to use various communication technologies, including email, our website, our Facebook page, and other electronic applications to share information with parents and the rest of the community. The expanded wireless capability, advocacy for Broadband in the community, in conjunction with our Digital Conversion implementation will allow for improved staff-to-parent communications. Expanded connectivity will support the parent portal for student learning, while enhancing student learning by giving students access to web-based applications and school resources.

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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."

Continual and varied professional development is a critical component of the Cherry Valley-Springfield's Digital Conversion. The district provides and plans to continue to provide a wide range of professional development each year for our teachers, teaching assistants, and administrators. The training includes Google Apps for Education, Google Classroom, Web-based Tools, Web-based Assessments, Smart Boards, Chromebooks and more.

The District is committed to providing professional development on an on-going basis to the staff to promote effective use of technology tools and resources.

9. 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.

☒ 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.

State University of New York at Oneonta

- 9b. Enter the primary Institution phone number.

6074362630

- 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.

Elaine Lawrence

10. A district whose Smart Schools Investment Plan 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
☒ No

11. Nonpublic Classroom Technology Loan Calculator

The Smart Schools Bond Act provides that any Classroom Learning Technology 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.

See:

http://www.p12.nysed.gov/mgtserv/smart_schools/docs/Smart_Schools_Bond_Act_Guidance_04.27.15_Final.pdf.

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	1. Classroom Technology Sub-allocation	2. Public Enrollment (2014-15)	3. Nonpublic Enrollment (2014-15)	4. Sum of Public and Nonpublic Enrollment	5. Total Per Pupil Sub-allocation	6. Total Nonpublic Loan Amount
Calculated Nonpublic Loan Amount	(No Response)	(No Response)	(No Response)	(No Response)	(No Response)	(No Response)

12. 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.

13. 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.

14. If you are submitting an allocation for Classroom Learning Technology 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
Interactive Whiteboards	(No Response)
Computer Servers	(No Response)
Desktop Computers	11,495
Laptop Computers	93,989
Tablet Computers	(No Response)
Other Costs	3,033
Totals:	108,517

15. Please detail the type, quantity, per unit cost and total cost of the eligible items under each sub-category. This is especially important for any expenditures listed under the "Other" category. All expenditures must be capital-bond eligible to be reimbursed through the SSBA. If you have any questions, please contact us directly through smartschools@nysed.gov.

Please specify in the "Item to be Purchased" field which specific expenditures and items are planned to meet the district's nonpublic loan requirement, if applicable.

NOTE: Wireless Access Points that will be loaned/purchased for nonpublic schools should **ONLY** be included in this category, not under School Connectivity, where public school districts would list them.

Add rows under each sub-category for additional items, as needed.

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Select the allowable expenditure type. Repeat to add another item under each type.	Item to be Purchased	Quantity	Cost per Item	Total Cost
Laptop Computers	Dell Chromebook 11	70	299	20,930
Other Costs	amCase Chromebook cases	70	15	1,050
Laptop Computers	Dell Latitude 14 7000	71	1,029	73,059
Desktop Computers	iMac 27 in 3.8 GHz	5	2,299	11,495
Other Costs	Laptop bags	71	28	1,983

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High-Tech Security Features

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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.**

We will be replacing 15 analog cameras with 15 new IP cameras and an additional 15 IP cameras in strategic locations throughout the building. We are also adding 4 8MP exterior cameras with analytics and a new server.

Our administration and maintenance walked our buildings and grounds and determined strategic locations for the additional cameras that would have the greatest impact on safety. For example the exterior cameras will be angled to face each of the parking lots and driveways leading to the school.

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
47-22-02-04-0-004-BA1

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.**

Name	License Number
Griffith Dardanelli Architects, PC	24442

5. **If you have made an allocation for High-Tech Security Features, 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
Capital-Intensive Security Project (Standard Review)	0
Electronic Security System	128,298
Entry Control System	0
Approved Door Hardening Project	0
Other Costs	0
Totals:	128,298

6. **Please detail the type, quantity, per unit cost and total cost of the eligible items under each sub-category. This is especially important for any expenditures listed under the "Other" category. All expenditures must be capital-bond eligible to be reimbursed through the SSBA. If you have any questions, please contact us directly through smartschools@nysed.gov.**

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Add rows under each sub-category for additional items, as needed.

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	Avigilon ACC 6 Enterprise license for up to 1 camera channel	2.00	300	600
Electronic Security System	Avigilon ACC 6 Enterprise license for up to 48 channels	1.00	12,399	12,399
Electronic Security System	Avigilon ACC 6 Enterprise license for up to 8 camera channels	1.00	2,050	2,050
Electronic Security System	Avigilon 84TB HD NVR Premium, 2U rack mount RAID 6	1.00	19,087	19,087
Electronic Security System	Microsoft Windows server standard 2016 licensing, 2 core licenses, academic	8.00	35	280
Electronic Security System	Microsoft Windows server standard licensing, 1 user CAL Academic	5.00	5	25
Electronic Security System	Avigilon 3.0 Megapixel WDR, LightCatcher, Day/Night Indoor Dome, 3-9 mm f/1.3 P-iris lens, Self-Learning Video Analytics	23.00	752	17,283
Electronic Security System	Avigilon 5.0 Megapixel, LightCatcher, 4.3-8mm f/1.8 P-iris lens, Indoor Dome, Self-Learning Video Analytics	7.00	860	6,016
Electronic Security System	Avigilon 4K (8 MP) H.264 HD Pro with LightCatcher Technology	4.00	1,876	7,506
Electronic Security System	Avigilon Large Format Enclosure for HD IP Pro Cameras with 12VDC/24VAC Heater, Wall Bracket and Sunshield, Max combined camera and lens length is 12.8	4.00	373	1,494
Electronic Security System	Avigilon Optional PoE+ power module, Powers full camera enclosure features & camera with a single Ethernet connection	4.00	211	846
Electronic Security System	Avigilon Reinforcing wall mount adapters	4.00	36	144
Electronic Security System	Avigilon Sigma, 18-35mm, f/1.8, Auto-Iris, Vari Focal	4.00	1,494	5,976
Electronic Security System	Day Automation Interior Camera IP camera termination kit	30.00	28	824
Electronic Security System	Day Automation Exterior Camera Termination Kit	4.00	98	393

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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	Subcontractor labor	1.00	53,375	53,375