Smart Schools Investment Plan - 2016-17 Version (Original) - November2016

SSIP Overview

Page Last Modified: 05/08/2018

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

Christie Maisano

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

585-599-4525 x1999

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

cmaisano@pembrokecsd.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

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 occured 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.

Page Last Modified: 05/08/2018

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.

Pembroke CSD Smart Schools Investment Plan.pdf
PembrokeCSDSmartSchoolsInvestmentPlan (1).pdf
Pembroke CSD_ Pembroke CSD Smart Schools Investment Plan.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://pembrokecsd.org/common/pages/DisplayFile.aspx?itemId=4185442

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.

1,985

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:

$1,102,055

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	341,075
Connectivity Projects for Communities	0
Classroom Technology	435,500
Pre-Kindergarten Classrooms	0
Replace Transportable Classrooms	0
High-Tech Security Features	313,802
Totals:	**1,090,377**

Page Last Modified: 05/01/2018

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.

FCC Minimum Speed Standard

Per the speed calculator, we currently meet the FCC minimum speed standard.

We intend to maximize the return on our investment in education technology and devices by ensuring that Smart Schools Bond Act funds used for technology infrastructure investments exceeds the Federal Communications Commission minimum speed standard of 100 Mbps per 1,000 students.

We plan to use SSBA funds to exceed this standard by:

- expanding our internal bandwidth by upgrading our existing Cat5 cabling throughout the buildings to Cat6, allowing for 10 gigabit data transfer speed and meeting the 1G/1,000 students minimum speed that the FCC will require of us.
- Expand our existing wireless network to accommodate additional devices purchased by the district and brought on site from our staff, students, guests. We plan to install wireless access points in the remaining classrooms that do not have them, as well as expand the wireless coverage in the common areas of the buildings (gym, library, pool). By adding in this additional coverage, it ensures that we will exceed the Federal Communications Commission minimum speed standard of 100 Mbps per 1,000 students for our wireless users.

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	1,020	102,000	102	132	132	currently met

Page Last Modified: 05/01/2018

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

School Connectivity

Using the Smart Schools Bond Act funds, we plan to expand and evolve both our internal and wireless networks in all of our school buildings in the following ways:

Internal Broadband Network:

- Expand our internal bandwidth by upgrading our existing Cat5 cabling throughout the buildings to Cat6, allowing for 10 gigabit data transfer speed and meeting the 1G/1,000 students minimum speed that the FCC will require of us.
- Upgrade our existing backup generator to meet industry specifications as they have reached and passed their end of life. This generator is our primary source of backup power to our servers, switches, controllers, and computers and it is imperative that it functions to prevent data loss and power redundancy.

Wireless Network

- Expand our existing wireless network to accommodate additional devices purchased by the district and brought on-site from our staff, students, guests. We plan to install wireless access points in the remaining classrooms that do not have them, as well as expand the wireless coverage in the common areas of the buildings (gym, library, pool) to ensure sufficient bandwidth for all student, staff, and guest users.
- We will need a new wireless controller at the Jr/Sr High School as the new access points will not work with the existing controller. This will allow for greater coverage throughout the campuses providing for secure, consistent, comprehensive access for our users. It will also allow for expansion as more of our students use wireless devices, both personal and district owned.

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?)

Improve Teaching and Learning

These initiatives are directly in line with our district's plans to use digital connectivity and technology to improve teaching and learning. By upgrading both the internal and wireless networks, The Pembroke Central School District ensures their commitment to effectively utilizing emerging technologies to prepare students for graduation, with the knowledge, skills and attitudes necessary to lead productive lives. We recognize that advances in technology are increasingly impacting the ways we obtain, process, evaluate, and use information. It is our District’s responsibility and commitment to:

- ensure we are meeting and maintaining industry standards as well as FCC requirements.
- maintain functional, sustainable, equitable access to equipment and information.
- ensure appropriate and effective use of technology in order to develop critical thinking, problem solving, and ethical awareness by offering access through a robust network.
- enhance our teachers’ ability to create, deliver, and manage instruction with ongoing, pertinent staff development opportunities using a comprehensive, sustainable network.
- individualize instruction using technology that allows students to develop knowledge and skills adapted for the various learning styles and levels.

Page Last Modified: 05/01/2018

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.

Assurance of Robust Wi-Fi Network in Place

The Pembroke Central School District intends for their students and staff to have open and reliable access the Internet from wireless devices within the school buildings, or in close proximity to them. We have ensured that we have, and will continue to as more devices access it, a robust Wi-Fi network in place that has sufficient bandwidth to meet user demand. When purchasing our existing system, we chose a Meru wireless system utilizing Meru WLAN controllers (1 MC3200 and 2 MC1550 Meru controllers) and 90 AP1020i-Meru Dual Radio 802.11 a/b/g/n AP's with integrated antennas. These dual band, dual stream access points operate on 2.4 GHz and 5GHz bands to deliver data at a rate of 300Mb per second per radio. The Meru/Frontrunner installation team offered completed a site survey investigating the 3 buildings structures and created heat maps showing coverage obstacles to signal strength. They accounted for these elements including walls, ceiling, tiles, furniture, natural elements, and coated glass to ensure that access points were installed in optimum locations accounting for these barriers. We installed these access points in all common areas as well as every other classroom in each building to ensure there is adequate coverage throughout the buildings' floor plans and saturation to allow for all users to have reliable, comparable service.

We plan to continue to meet these demands for open and reliable access by expanding our existing wireless network to accommodate additional devices purchased by the district and brought on-site from our staff, students, guests. We plan to install 70 new wireless access points in the remaining classrooms that do not have them, as well as expand the wireless coverage in the common areas of the buildings (gym, library, pool) to ensure sufficient bandwidth for all student, staff, and guest users. We also plan to purchase a new wireless controller for the Jr/Sr High School as the new access points will not work with the existing controller. This will allow for greater coverage throughout the campuses providing for secure, consistent, comprehensive access for our users. It will also allow for expansion and more APs to handle the data load as more of our students, staff, guests use wireless devices, both personal and district owned.

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
18-13-02-04-7-999-SB1

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

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
Michael Short	32717

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

Page Last Modified: 05/01/2018

entered in the SSIP Overview overall budget.

	Sub-Allocation
Network/Access Costs	239,503
Outside Plant Costs	0
School Internal Connections and Components	33,072
Professional Services	68,500
Testing	0
Other Upfront Costs	0
Other Costs	0
Totals:	**341,075**

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	AP832i Meru Access Points-Dual-radio 3x3 3-stream 802.11a/b/g/n/ac Access Point with integrated antennas	79	713	56,327
Network/Access Costs	MC3200-US Meru Wireless Controller for US Platform	1	4,948	4,948
Connections/Components	Wifi System Installation, programming, and configuration. Frontrunner professional services to install controller, provision new HS APs, test with sampling of school clients, add licenses, update and save configurations on controller, test N+1 failover, edit existing Ekahau prints and label AP locations in GUI at all 3 schools	3	1,000	3,000
Network/Access Costs	Generator-backup power for network equipment including installation.	1	173,695	173,695
Professional Services	Architectural design/engineering services	1	68,500	68,500
Connections/Components	Cat 6 Cable-1000 ft spools	66	152	10,032

Page Last Modified: 05/01/2018

Select the allowable expenditure type. Repeat to add another item under each type.	Item to be purchased	Quantity	Cost per Item	Total Cost
Connections/Components	Installation of Cat 6 Cable	1	15,000	15,000
Connections/Components	Cat 6 Installation Components including crimp connectors, crimping tools,	1	5,040	5,040
Network/Access Costs	MCx000-SD-50AP MC3200/MC4200/MC6000 Meru Wireless Controller Software 50 AP Software Upgrade License	1	3,573	3,573
Network/Access Costs	MCX000-SD-10AP MC3200/MC4200/MC6000 Meru Wireless Controller Software 10 AP Software Upgrade License	1	960	960

Page Last Modified: 05/01/2018

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. 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**

7. 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.
Add rows under each sub-category for additional items, as needed.

Page Last Modified: 05/01/2018

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)	(No Response)

Page Last Modified: 05/01/2018

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.

Classroom Learning Technology
Per the Smart Schools Guidance documents, 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. The Pembroke Central Schools meets the minimum speed standard of 100 mb per 1,000 students. In December of 2015 an order was placed for leased, dark fiber installation connecting our 3 campuses from Empire Communications. This dark fiber allows for 1Gb throughput between each building and allowing full throttle access to the 200Mb internet pipe from Edutech/Time Warner. The fiber installation became active in August of 2016 ensuring that we meet this standard before we purchase any instructional devices with Smart Schools funds.
The Pembroke Central School District has a 3 year service contract with Empire for the dark fiber service guaranteeing it is available 24 hours a day, 7 days a week.

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	1,020	102,000	102	132	132	currently met

Page Last Modified: 05/01/2018

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.

Assurance of Robust Wi-Fi Network in Place
The Pembroke Central School District intends for their students and staff to have open and reliable access the Internet from wireless devices within the school buildings, or in close proximity to them. We have ensured that we have, and will continue to as more devices access it, a robust Wi-Fi network in place that has sufficient bandwidth to meet user demand. When purchasing our existing system, we chose a Meru wireless system utilizing Meru WLAN controllers (1 MC3200 and 2 MC1550 Meru controllers) and 90 AP1020i-Meru Dual Radio 802.11 a/b/g/n AP's with integrated antennas. These dual band, dual stream access points operate on 2.4 GHz and 5GHz bands to deliver data at a rate of 300Mb per second per radio. The Meru/Frontrunner installation team offered completed a site survey investigating the 3 buildings structures and created heat maps showing coverage obstacles to signal strength. They accounted for these elements including walls, ceiling, tiles, furniture, natural elements, and coated glass to ensure that access points were installed in optimum locations accounting for these barriers. We installed these access points in all common areas as well as every other classroom in each building to ensure there is adequate coverage throughout the buildings' floor plans and saturation to allow for all users to have reliable, comparable service.

We plan to continue to meet these demands for open and reliable access by expanding our existing wireless network to accommodate additional devices purchased by the district and brought on-site from our staff, students, guests. We plan to install 70 new wireless access points in the remaining classrooms that do not have them, as well as expand the wireless coverage in the common areas of the buildings (gym, library, pool) to ensure sufficient bandwidth for all student, staff, and guest users. We also plan to purchase a new wireless controller for the Jr/Sr High School as the new access points will not work with the existing controller. This will allow for greater coverage throughout the campuses providing for secure, consistent, comprehensive access for our users. It will also allow for expansion and more APs to handle the data load as more of our students, staff, guests use wireless devices, both personal and district owned.

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.

Page Last Modified: 05/01/2018

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.

Using the Smart Schools Bond Act funds, we plan to purchase the following classroom learning technology devices:

Device	Compatibility	Intended Building/Grade Level
Interactive Flat Panel Displays-1 per classroom	Compatible with Apple OS, Windows OS, and Chrome OS	Replace all Smart Boards and projectors in Jr/Sr High School, Intermediate School, and Primary School
Charging Cart for Chromebooks and iPads	Compatible with Chromebooks, Windows laptops, and Apple iOS devices	Jr/Sr High School and Intermediate School
Chromebooks	Compatible with Google Admin Console, GADS, GAFE, and Chrome OS	Jr/Sr High School and Intermediate School
iPads	To be managed using Casper/JAMF software	Primary School

The district has ensured that adequate electrical supply is in place to support the increase in devices, through consults with our building maintenance teams, engineers, and architects. The new generator in the SSIP ensures that adequate power will be available in the case that power is lost in the HS for the network services to continue to offer necessary access to data and communication tools.

Page Last Modified: 05/01/2018

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?"

The proposed technology purchases will:

- enhance differentiated instruction by being highly customizable and intrinsically motivating to students making them particularly well-suited to address various learning styles. These purchases will also enhance our teachers' ability to create, deliver, and manage differentiated instruction by offering personalized learning opportunities and interactive accessibility to information. These devices will encourage adaptation of instruction to address student diversity, emphasize student accountability for their learning, encourage participation through simultaneous activities, and promote a challenging learning environment.
- expand student learning inside and outside the classroom by fostering creativity and communication. The purchases will allow our students to utilize tools and activities that are relevant to the real world, reflecting the knowledge and skills that our students need for college and career readiness. It will allow our students to expand their learning from the traditional school day to a more innovative and economically efficient structure of anytime, anyplace learning. By bridging the gap between classroom and home learning, new and emerging technologies can keep students engaged after school hours. This may include flipped classrooms, blended classrooms, online coursework, distance learning, summer programs, and afterschool programs.
- benefit students with disabilities and English language learners by offering equitable access to learning experiences. Our special education staff will utilize technology to assess individual students' strengths and weaknesses, present content in alternative ways, and provide assistive tools to meet individual needs. In order to successfully implement a Universal Design for Learning for all of the Pembroke CSD students, the instructional goals, methods, materials and assessments for all students are developed by instructional teams, and the Special Education and Technology departments work together to ensure that assistive technologies and tools are available and utilized to give all students an equal opportunity to learn and succeed. These tools include access to computers in Special Education classrooms, Speech to Text software, Digital Scribing Pens, Enlarged Keyboards, iPads and laptops assigned to individual students based on IEP recommendations, Braille embossers, printers, and readers, and adaptive software. These tools will also be very helpful for our English Language Learners as the visual, non-language driven content allows them to keep moving ahead without getting hindered by language they haven't yet mastered.
- contribute to the reduction of other learning gaps that have been identified within the district by helping our students to close gaps and increase the possibilities for students to equally participate in the general curriculum. These purchases will allow our staff to individualize instruction using technology that allows students to develop knowledge and skills adapted for the various learning styles and levels. By offering the ability to personalize learning so that instruction is tailored to student goals, students can go at their own pace, receive immediate feedback on their work, and can develop a digital fluency that they will rely upon throughout their lives.

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.

School-Parent Communication

The proposed technology purchases will enhance ongoing communication with parents and other stakeholders to support student learning more effectively and to foster their their physical, emotional, and intellectual well-being. Technologies including email, texts, websites, electronic portfolios, online surveys and video chat applications allow for more timely communication between parents and teachers. Online calendars, online homework schedules, homework logs and online grade books are all digital tools that will allow for parents/guardians to stay on top of their student's progress gauge where their needs lay. These tools will also allow for the opportunity to praise students for positive performance and to intervene early if there is a sign of a problem. These new tools will also help the district facilitate distance learning and other efforts by offering devices and broadband speeds to allow for multiple faces of learning, including flipped classrooms, blended classrooms, online coursework, and distance learning.

Page Last Modified: 05/01/2018

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."

Professional Development

At present, the Pembroke Central School District Technology Department relies up the NYS Professional Development standards to develop and provide technology integration related professional development. The classes and workshops that we offer locally (not funded by Smart Schools) are based on data, is derived from the experience, expertise and needs of the recipients, reflects best practices in sustained job-embedded learning, and incorporates knowledge of how adults learn. Professional development at Pembroke CSD promotes, and will continue to promote, technological literacy and facilitates the effective use of all appropriate technology. The Pembroke CSD provides the following opportunities to support technology integration into classroom instruction:

1. Building Level Technology Committees-for faculty and staff to discuss notable topics in instructional technology, plans for implementation, review of staff, student, and parent technology surveys, and assessment and modification of the implementation of grade level technology benchmarks.
2. Weekly Building Level Technology Workshops-workshops for faculty and staff based on the analyzation of staff, student, and parent technology surveys needs and requests
3. Monthly Building Level Schooltool Workshops-workshops for faculty and staff to increase the knowledge and
4. Monthly Building Level eDoctrina Workshops-workshops for faculty and staff expands all educator's' content knowledge and the knowledge and skills necessary to provide developmentally appropriate instructional strategies and assess student progress.
5. Monthly Building Level SchoolMessenger Workshops-workshops for faculty and staff ensures that educators have the knowledge, skills, and opportunity to engage and collaborate with parents, families, and other community members as active partners in children's education.
6. Genesee Region Teacher Center-offsite classes for faculty and staff.
7. Faculty Meetings-workshops for faculty and staff.
8. Individual Support and Just in Time trainings-for faculty and staff.
9. Grade Level/Department Level Meetings-for faculty and staff.
10. New Teacher Orientation-day long introductory workshop for new faculty and staff.
11. Out-of-District Conference Opportunities-for faculty and staff.
12. Professional Libraries located within each school-for faculty and staff.
13. Self-directed learning opportunities available via the Internet and Intranet -for faculty and staff.
14. Superintendent's Conference Days-workshops for faculty and staff.

Topics will include blended learning, flipped classrooms, utilizing cloud based services, career and college readiness, communicating using digital tools, utilizing devices as instructional tools, digital citizenship, incorporating technology/ISTE standards in the classrooms, empowering student learners, copyright/appropriate use, STEAM tools, project based learning, differentiation using technology, use of devices, computer based testing practice/tools, subject specific technology tools, and data privacy, etc. Professional Development of this nature will continue to evolve using local funds, not Smart Schools monies.

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.

SUNY College at Buffalo

9b. Enter the primary Institution phone number.

716-878-4000

Page Last Modified: 05/01/2018

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.

Wendy A. Paterson, PHD

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.

	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	335,500
Computer Servers	0
Desktop Computers	0
Laptop Computers	62,400
Tablet Computers	32,000
Other Costs	

Page Last Modified: 05/01/2018

	Sub-Allocation
	5,600
Totals:	**435,500**

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.

Select the allowable expenditure type. Repeat to add another item under each type.	Item to be Purchased	Quantity	Cost per Item	Total Cost
Interactive Whiteboards	Interactive Whiteboards	61	5,500	335,500
Laptop Computers	Chromebooks for IS and HS	156	400	62,400
Tablet Computers	iPad Pro 9.7	40	800	32,000
Other Costs	Charging Carts for Chromebooks and iPads	7	800	5,600

Page Last Modified: 05/01/2018

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 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. 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**

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

Pre-Kindergarten Classrooms

Page Last Modified: 05/01/2018

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)	(No Response)

Page Last Modified: 05/01/2018

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. 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**

5. 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.
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
(No Response)	(No Response)	(No Response)	(No Response)	(No Response)

Page Last Modified: 05/08/2018

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.

High-Tech Security Features

Using the Smart Schools Bond Act funds, we plan to expand and evolve both our internal and wireless networks in all of our school buildings in the following ways:

Installation of a Video Surveillance Camera System

The existing Video Surveillance Camera System at the Jr/Sr High School has reached it's end of life. A new system is necessary replacing the existing cameras, the existing server, and the existing cabling. We also believe the new system will require 20 additional cameras to increase our coverage of the parking lots, playing fields, doorways, and blind spots within the building. We also plan to install Video Surveillance Camera Systems into both the Intermediate and Primary Schools.

Video Camera Surveillance systems help to ensure that:

- the general safety and security of children are being addressed during school hours and at all after-school extracurricular activities and programs.
- presence of highly visible surveillance cameras at strategic locations in buildings and public areas/premises of a school property prevents theft, vandalism and acts as a deterrent to thieves and criminals from indulging in illegal activities.
- ensuring that individuals who do not belong on school property can be recognized and tracked down**.**

Installation of a Door Locking Access Control System

The existing Door Locking Access Control System has reached it's end of life. A new system is necessary replacing the existing swipes, existing server, and the existing cabling. This system will include locking mechanisms, smartcard readers, network and video system integration, server, and cabling for the Jr/Sr High School, Intermediate School, and Primary School.

Access Control systems:

- cards or fobs are issued to allow access through controlled doors. If they are lost or stolen, they can be easily de-activated or barred so that it is impossible to gain entry through the door again.
- automatically lock once they close. They can also be programmed to be unlocked for certain periods of time if necessary.
- allow for zone control where access can be granted to all users of a door or may only allow access to certain people who need to be in those areas of the building or by certain times of day or night.

Window Hardening

On the many windows of our district buildings, security window film installation will help hold window glass in place in the event force is brought against it. Upon impact, the film helps to protect against shards of glass from flying, offering protection to the people inside. By providing a layer of protection with security window film, attempts at breaking through the glass can be delayed, which could help stop or reduce the security threat.

Door Hardening

Reconfiguration of the Primary School Main Entrance is necessary as it is considered a soft entrance where there is no way to prevent an intruder from accessing the building. We would like to replace the existing wooden door with a metal door that includes a locking mechanism controlled by the office staff. We would also like a pass through window installed to allow for communication between the office staff and any visitors.

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
18-13-02-04-7-999-SB1
(No Response)

3. Was your project deemed eligible for streamlined Review?

- ☑ Yes
- ☐ No

Page Last Modified: 05/08/2018

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
Michael Short	32717

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)	32,000
Electronic Security System	128,309
Entry Control System	82,143
Approved Door Hardening Project	15,500
Other Costs	55,850
Totals:	**313,802**

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.
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
Other Costs	Professional Services for Engineering/Programming/Proj Management/Checkout for both Door Access Control projects and Security camera project	1	55,850	55,850
Entry Control System	Installation of Door Access Control system	1	51,529	51,529
Entry Control System	Alarm Controls: Armored Door Cord, 18 in., SS Jacket, metal end caps	1	17	17
Entry Control System	Alarm controls: Under counter door release button, momentary spdt, 28vdc 4a rating	1	26	26
Entry Control System	Aviglion: 1-Port Gb IEEE 802.3af PoE	6	68	405

Page Last Modified: 05/08/2018

Select the allowable expenditure type. Repeat to add another item under each type.	Item to be purchased	Quantity	Cost per Item	Total Cost
	injector			
Approved Door Hardening Project	Window Film-estimated 110 windows	110	105	11,500
Entry Control System	Aviglion: 1-Reader Interface module, mag, or Wiegand, 2 in, 2 Out (Mercury MR50)	1	293	293
Electronic Security System	Avigilon: 1.0 Megapixel (720p) WDR, LightCatcher, Day/Night, Indoor Dome, 3-9mm f/1.3 P-iris lens, Self-Learning Video Analytics	1	630	630
Electronic Security System	Avigilon: 16 Zone Module with 2 relay outputs	5	645	3,227
Electronic Security System	Avigilon: 2-Reader Interface Module, mag or Wiegand, 8 in, 6 Rlys (Mercury MR52)	3	570	1,709
Capital-Intensive Security Project	Primary School Secure Vestible-Demolition	1	8,000	8,000
Capital-Intensive Security Project	Primary School Secure Vestible-Desk	1	5,000	5,000
Approved Door Hardening Project	Primary School Secure Vestible-1 Hr Fire rated Door/Hardware	1	4,000	4,000
Capital-Intensive Security Project	Primary School Secure Vestible-Window	1	3,000	3,000
Capital-Intensive Security Project	Primary School Secure Vestible-Fire shutter	1	6,000	6,000
Entry Control System	Primary School Secure Vestible-Door access controls/speaker	1	4,000	4,000
Capital-Intensive Security Project	Primary School Secure Vestible-Relocate Electrical	1	2,000	2,000
Capital-Intensive Security Project	Primary School Secure Vestible-Carpentry	1	8,000	8,000
Electronic Security System	Avigilon: 3.0 Megapixel WDR, LightCatcher, Day/Night, In-Ceiling Dome, 3-9mm f/1.3 P-iris lens, Self-Learning Video Analytics	29	798	23,099
Electronic Security System	Avigilon: 3.0 Megapixel WDR, LightCatcher, Day/Night, Indoor Dome, 3-9mm f/1.3 P-iris lens, Self-Learning Video Analytics	1	752	752
Electronic Security System	Avigilon: 3.0 Megapixel WDR,	2	932	1,863

High-Tech Security Features

Page Last Modified: 05/08/2018

Select the allowable expenditure type. Repeat to add another item under each type.	Item to be purchased	Quantity	Cost per Item	Total Cost
	LightCatcher, Day/Night, Outdoor Dome, 3-9mm f/1.3 P-iris lens, Integrated IR, Self-Learning Video Analytics			
Electronic Security System	Avigilon: 3x 3MP, Multisensor camera, 2.8-8mm f/1.3	6	1,688	10,125
Electronic Security System	Avigilon: 3x 3MP, In-ceiling Multisensor camera, 2.8-8mm f/1.3	6	1,598	9,585
Electronic Security System	Avigilon: 4K UHD (8.0 Megapixel), Day/Night, Pendant Dome, 4.3-8mm f/1.8 P-iris lens, Integrated IR, Self-Learning Video Analytics	1	1,296	1,296
Electronic Security System	Avigilon: 5.0 Megapixel, LightCatcher, Day/Night, Outdoor Dome, 4.3-8mm f/1.8 P-iris lens, Integrated IR, Self-Learning Video Analytics	4	1,040	4,158
Electronic Security System	Avigilon: ACC 5 Enterprise license for up to 1 camera channels and unlimited viewing clients	2	302	603
Electronic Security System	Avigilon: ACC 5 Enterprise license for up to 16 camera channels and unlimited viewing clients	3	4,046	12,137
Electronic Security System	Avigilon: Compact wall bracket for use with H3PTZ-DP and H3-DP Pendant Dome Cameras	6	81	486
Entry Control System	Avigilon: Controller, 16 MB RAM, Ethernet, 8 In/4 Out/2 Rdrs with RS485 Out, 12-24 Vdc	8	1,040	8,316
Electronic Security System	Avigilon: Corner mount adapter for use with MNT-PEND-WALL, H3-BO-JB or HD Bullet Camera	6	81	486
Electronic Security System	Avigilon: Enterprise Web-Based PACS Virtual Appliance for 32 Readers (Accessories are included)	1	3,000	3,000
Electronic Security System	Avigilon: Metal ceiling panel for use with H4A-DC in-ceiling dome cameras to replace or reinforce the existing ceiling tile in suspended ceiling installations	29	86	2,480
Electronic Security System	Avigilon: Wall mount bracket for use with H4A-DP pendant dome cameras	7	54	378
Entry Control System	Bosch: PASSIVE INFRARED REX, 12	20	61	1,230

High-Tech Security Features

Page Last Modified: 05/08/2018

Select the allowable expenditure type. Repeat to add another item under each type.	Item to be purchased	Quantity	Cost per Item	Total Cost
	TO 30VDC, 26MA, SURFACE MOUNT, FORM C CONTACTS			
Entry Control System	Coleman Cable: 4c 16AWG coil flex cable	1	72	72
Entry Control System	Day Automation: 1 in. Recessed Door Contact with 2k Ohm Embedded Resistors, Wide-Gap, N.C. Loop	62	19	1,195
Entry Control System	Day Automation: 1 in. Recessed Door Contact, Wide-Gap, N.C. Loop	42	13	558
Entry Control System	Day Automation: 3 in. Track Mount Contact, Wide-Gap w/ 3 ft. Armor Cable & 2k Ohm Embedded Resistors, N.C. Loop	1	54	54
Entry Control System	Day Automation: Access/HVAC CP, 24	3	779	2,338
Entry Control System	Day Automation: CP for 1-Access Door, 16	1	490	490
Electronic Security System	Day Automation: Exterior IP Camera Termination Kit	13	98	1,279
Electronic Security System	Day Automation: Interior IP Camera Termination Kit	37	28	1,016
Entry Control System	Day Automation: Standard Overhead Door Wide-Gap, N.C. Loop, 36 in. leads with 24 in. Armor	3	31	92
Entry Control System	Functional Devices: RELAY IN A BOX, 10-30VAC/VDC, 120VAC, SPDT, 10 AMP	15	15	228
Entry Control System	HES: 1006 series Strike Kit for Cylindrical/Mortise Locksets, w/Strike, 5-Faceplates, & Mounting Hardware	2	380	760
Entry Control System	HES: 9600 Series Strike, Body Only-Stainless Steel, 12/24VDC, Satin Stainless Finish, Fail Secure	1	311	311
Entry Control System	HES: 9600 Series Strike, Body Only-Brass, 12/24VDC, Satin Stainless Finish, Fail Secure	3	271	814
Entry Control System	HES: HES 9600 Satin Brass Finish	4	433	1,731
Entry Control System	HES: Surface Mounting Box (from ADI)	1	136	136
Entry Control System	HID: iClass Keyfobs, 2kb, Prog, Black/Blue, Seq Matching Int/Ext Inkjetted, 26b, 100-pack	3	514	1,543

High-Tech Security Features

Page Last Modified: 05/08/2018

Select the allowable expenditure type. Repeat to add another item under each type.	Item to be purchased	Quantity	Cost per Item	Total Cost
Entry Control System	HID: iClass/multiClass SE R10/RP10 Reader, HID Prox, Legacy, Wiegand, Black	7	146	1,025
Entry Control System	HID: iClass/multiClass SE R40/RP40 Reader, HID Prox, Legacy, Wiegand, Black	14	254	3,550
Entry Control System	STI: Adapter Plate for Surface Mount Box	5	9	45
Entry Control System	STI: STI Custom Label, Order From Required	5	8	41
Entry Control System	STI: Yellow Stopper Station w/Cover, Push-to-Activate/Turn-to-Reset, Custom Label Form Req	5	74	369
Entry Control System	STI: Yellow Surface Mount Back Box for SS-2000 Series, Adapter Plate Req. Part # 102721	5	9	45
Entry Control System	Von Duprin: 3 ft mechanical crash bar	1	836	836
Entry Control System	Track Mnt Rly 4	6	16	94
Electronic Security System	Installation of Video Surveillance System	1	50,000	50,000

Page Last Modified: 02/27/2018