

Smart Schools Investment Plan - Revised - Farmingdale Second Submission

SSIP Overview

Institution ID

800000048748

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

Dr. William Brennan

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

5164345190

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

wbrennan@farmingdaleschools.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.

☒ Parents

☒ Teachers

☒ Students

☒ Community members

☐ The district was unable to meet with each group of stakeholders due to an emergency need as a result of the COVID-19 crisis.

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

☐ Yes

☒ Yes, but they have all since closed, moved out of district or are declining use of SSBA funds

☐ No

- 5a. Please detail which nonpublic schools have closed or moved since 2014-15, including enrollments and physical locations.

Journey Prep. We had not added this on the original submission as per NYSED because they weren't in operation at the time of the SSBA. This was confirmed with SmartSchools via Email. Regardless, they are no longer in operation.

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6. Certify that the following required steps have taken place by checking the boxes below:

- ☒ 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 school board was unable to conduct a hearing that enabled stakeholders to respond to the preliminary plan due to an emergency need as a result of the COVID-19 crisis.
- ☒ 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.

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

SSIPFinal.pdf
SmartSchoolJune5.pdf

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

http://farmingdale.syntaxny.com/Assets/Board_of_Education_Documents/SmartSchoolJune5.pdf?t=637063863467930000

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

5,800

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

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

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

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

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

(No Response)

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

\$2,908,802

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

	Public Enrollment	Nonpublic Enrollment	Total Enrollment	Nonpublic Percentage
Enrollment	5,818	0	5,818.00	0.00

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

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	Sub-Allocations	Expenditure Totals	Difference
School Connectivity	620,410.00	620,410.00	0.00
Connectivity Projects for Communities	0.00	0.00	0.00
Classroom Technology	1,008,783.00	1,008,783.00	0.00
Pre-Kindergarten Classrooms	0.00	0.00	0.00
Replace Transportable Classrooms	0.00	0.00	0.00
High-Tech Security Features	979,554.00	979,554.00	0.00
Nonpublic Loan	0.00	0.00	0.00
Totals:	2,608,747	2,608,747	0

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School Connectivity

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

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

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

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

The District infrastructure features a state-of-the art high speed wireless network with access points that support the 801.11ac standard and has a five-year hardware cycle on PC's and a three-year hardware cycle on Chromebooks, so device compatibility will not be an issue. The District has recently upgraded other necessary infrastructure components, such as its firewall, core main building switches, server farm, and fail-over capabilities to live back-ups. Our buildings are connected by a 10 GB Wide Area Network that supports a 1 GB connection to the desktop and 800mb to the Internet. The two projects noted in this plan provide the necessary infrastructure backbone to support future program needs.

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

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

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

	Number of Students	Required Speed in Mbps	Current Speed in Mbps	Expected Speed to be Attained Within 12 Months	Expected Date When Required Speed Will be Met
Calculated Speed	5,800	580.00	600	600	present

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

We plan on using these resources to replace existing 1Gb network switch infrastructure at the end of its useful life with newer, 1Gb Power-Over-Ethernet (POE) model switches. This will be done District-wide, and also include some closet upgrades. This infrastructure upgrade in all of our buildings will help to support growing initiatives that make use of mobile technologies and other network attached devices.

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School Connectivity

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

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

Our District Instructional Technology Plan refers to the ubiquitous use of mobile devices by students and staff. This includes Chromebooks, which are part of our One-to-World learning program as well as personal devices used by students and staff. Farmingdale continues to use cloud-based digital tools, such as Google Apps and a plethora of other instructional tools to enrich the teaching and learning experience. Upgrading our switch infrastructure District-wide will guarantee the future backbone necessary to support these initiatives in all grades K-12, including our special needs population.

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.

Prior to implementing our One-to-World Learning Initiative program in grades 3-12 in 2014-2018, we invested heavily in expanding the density of wireless capacity and coverage in our six buildings. The District worked with Nassau BOCES in the installation of a wireless access point in each instructional space, installation of high availability wireless controllers, installation of a more robust firewall with active fail-over capabilities, replacement of our 1GB CORE switches with more robust 10gb models, and increasing our bandwidth availability to 800Mbps.

Well over three years into the initiative, we currently have deployed 5,000 Chromebooks in a One-to-World learning model across all six schools in Grades 3-12. At any given point in an instructional day, we are averaging approximately 2,000 simultaneous Chromebook users and 500Mbps of bandwidth usage District-wide. Both students and staff users are reporting excellent network responsiveness throughout all six buildings where we have deployed high-density wireless coverage.

With the expansion of our One-to-World Learning Initiative program and continued teacher professional development, we anticipate an increase to bandwidth requirements. The two projects noted in our plan are designed to establish a more robust switch infrastructure district-wide to guard against bottlenecks & provide a firm foundation for future growth with mobile technology, as well as round out the wireless density in our schools.

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

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

Project Number
28-05-22-03-7-999-BA1

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

Was your project deemed eligible for streamlined review?

Yes

- 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.

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

Name	License Number
H2M Architects	33063

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

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

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

Select the allowable expenditure type. Repeat to add another item under each type.	PUBLIC Items to be purchased	Quantity	Cost per Item	Total Cost
Network/Access Costs	2960x Cisco Switches	101	3,850.00	388,850.00
Network/Access Costs	Storage Devices Dell Compellent	1	62,350.00	62,350.00
Network/Access Costs	Wireless Access Points - Aruba 225 AP	35	600.00	21,000.00
Network/Access Costs	Installation of switches	1	6,500.00	6,500.00
Network/Access Costs	Supports the successful implementation & adoption of zSpace Modeling/General, and K12 software titles. Includes 1 day On-Site Technical Services & 2 days On-Site PD	1	7,125.00	7,125.00
Network/Access Costs	Installation of Interactive Whiteboards	170	600.00	102,000.00
Network/Access Costs	Installation of Media Studio - Turnkey Install	102	185.00	18,870.00
Network/Access Costs	Installation of Media Studio -Lighting Install	8	185.00	1,480.00
Network/Access Costs	Installation of Media Studio -TBC Furniture Install	12	185.00	2,220.00
Network/Access Costs	Media Studio Training 2 Days	16	225.00	3,600.00
Network/Access Costs	Media Studio Project Managment	8	225.00	1,800.00
Network/Access Costs	Media Studio Engineering Services	8	225.00	1,800.00
Network/Access Costs	ProTek Care for TriCaster TC1R (initial 2 year coverage)	1	2,815.00	2,815.00
		464	85,070.00	620,410

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

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School Connectivity

	Public Enrollment	Nonpublic Enrollment	Total Enrollment	Nonpublic Percentage
Enrollment	5,818	0	5,818.00	0.00

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

	Public Allocations	Estimated Nonpublic Loan Amount	Estimated Total Sub-Allocations
Network/Access Costs	(No Response)	0.00	0.00
School Internal Connections and Components	(No Response)	0.00	0.00
Other	(No Response)	0.00	0.00
Totals:	0.00	0	0

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

	Sub-Allocation
Network/Access Costs	620,410.00
Outside Plant Costs	0.00
School Internal Connections and Components	0.00
Professional Services	0.00
Testing	0.00
Other Upfront Costs	0.00
Other Costs	0.00
Totals:	620,410.00

14. School Connectivity Totals

	Total Sub-Allocations
Total Loanable Items	0.00
Total Non-loanable Items	620,410.00
Totals:	620,410

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Community Connectivity (Broadband and Wireless)

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

(No Response)

2. Please describe how the proposed project(s) will promote student achievement and increase student and/or staff access to the Internet in a manner that enhances student learning and/or instruction outside of the school day and/or school building.

(No Response)

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

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

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

(No Response)

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

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

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

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

7. If you are submitting an allocation for Community Connectivity, complete this table.

Note that the calculated Total at the bottom of the table must equal the Total allocation for this category that you entered in the SSIP Overview overall budget.

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

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Classroom Learning Technology

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

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

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

Farmingdale Schools is currently a member of the Nassau BOCES Bo-TIE network. Through this network, Bo-TIE provides member school districts with Internet Access through Lighttower. As of May 2019, Farmingdale Schools subscriber bandwidth is 800 Mbps (WAN) with 1 Gb connection between school buildings (LAN). The Bo-TIE network also has burstability built in, which allows Farmingdale Schools to request additional bandwidth, as necessary. Our current bandwidth has adequately supported 1200 computers and over 10,000 mobile devices that depend on our network to access the Internet and other network resources. Our current district enrollment is 5800 students and meets ConnectEd and the FCC's broadband goal of 100 Mbps per 1,000 students enrolled in our district. More information about the Bo-TIE network can be found at www.nassauboces.org/Page/4673. Given the districts utilization of GSuite for Education and our dependence on the Internet, the District also has an Internet backup connection provided by Altice/Cablevision.

In addition to Internet bandwidth, the Districts buildings are connected by a 10 GB Wide Area Network that supports a 800 Mbps connection to the Internet, and the network firewall is monitored 24/7 in partnership with Nassau BOCES. The District infrastructure features a state-of-the art high speed wireless network with access points that support the 801.11ac standard and has a five-year hardware cycle on PC's and a three-year hardware cycle on Chromebooks, so device compatibility will not be an issue.

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

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

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

	Number of Students	Required Speed in Mbps	Current Speed in Mbps	Expected Speed to be Attained Within 12 Months	Expected Date When Required Speed Will be Met
Calculated Speed	5,800	580.00	600	600	present

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 infrastructure features a state-of-the art high speed wireless network with access points that support the 802.11ac standard. In 2017 the District completed an upgrade to the infrastructure which included Cat 5E cabling and upgrades to network switches. All schools have extremely reliable high speed wireless access, with an access point in every classroom and multiple access points in common areas. The network is monitored 24/7 by in-house network staff and a team at Nassau BOCES. The district subscribes to a Nassau BOCES service called Advanced Engineering Services to ensure 100% monitoring up-time.

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4. **All New York State public school districts are required to complete and submit an Instructional Technology Plan survey to the New York State Education Department in compliance with Section 753 of the Education Law and per Part 100.12 of the Commissioner's Regulations.**

Districts that include educational technology purchases as part of their Smart Schools Investment Plan must have a submitted and approved Instructional Technology Plan survey on file with the New York State Education Department.

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

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

The three projects noted in this plan provide the necessary classroom learning technology and displays to support program goals. This plan includes the purchase of interactive classroom displays, audio visual equipment, virtual reality computer equipment, digital TV studio equipment, and laser engravers that are fully compatible with our computer hardware. All of the electrical systems and other infrastructure in our schools will be able to support the new display technology. In some cases, our classrooms are already equipped with this type of equipment and the additional funds will support further program development and equity.

Interactive classroom displays - Interactive displays will be Newline boards. These board project the teachers computer and allow teachers to facilitate instruction.

Digital TV studio/Audio visual equipment - These items are for our High School TV studio. The current studio is outdated and needs new technology to provide students with an experience that will prepare them for studies and/or a career in TV production and communications. The equipment includes video cameras, audio equipment, lighting and control equipment to manage the equipment.

Printers - We are requesting to purchase a poster printer and color printer for our digital media program which is a collaboration between the Arts and CTE. The printers will be used to print student work.

Virtual reality computer equipment - Virtual reality computer equipment will be used within our STEM and CTE programs. There are two types of equipment. The first is zSpace which will provide our students with hardware and software that allows for 3d and even 4d learning experiences. The second type is probe-ware which will enable our students to conduct experiments in our science program. Digital probes that connect to mobile devices provide for a modern learning experience and real-time results.

Laser engravers - Farmingdale has an extensive career technical education program for our students. We continue to look for ways to help our students be technically-savvy and digital literate. Engravers will be used with our CTE, STEM and visual arts students and will provide opportunity to work with the most recent, coolest technology to prepare them for their futures. These engravers have the capability to cut through several types of materials as well as to precisely engrave into materials. Our students will be able to see their designs and ideas come to life while they gain technical skills working with cutting edge technology.

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

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

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

As noted above, this plan includes the purchase of items that are fully compatible with our current configuration and will support further program development and equitable access.

The use of interactive classroom displays will help all students, especially those with disabilities and limited English proficiency (ELL students), to become more engaged in classroom instruction.

Teachers will use the displays to annotate information, show presentations and videos and conduct formative and summative assessments, all while leveraging the benefits of interactivity. With an upgrade to classroom interactive displays, all students will benefit from improved clarity, audio and interaction. Combining this with the use of Chromebooks in our One-to-World learning initiative, we aim to provide all students, especially students identified with disabilities, multiple means of engagement, representation, and action and expression. Through the expansion of interactive classroom displays, students will have the ability to interact with the screens to demonstrate concepts and understanding to others in their classes.

Farmingdale Public Schools uses technology to enhance the language acquisition process for all students, but especially for students identified as English Language Learners. Students are educated in classrooms that have display boards (Smart Boards, Newline Displays, Promethean Boards, etc.) and great access to chrome books or other personal computing devices. This allows teachers to use videos, graphics, and interactive websites and applications that allow students to use their home language, translate, and to use English. We use many web-based applications to help students access literature in both their native language and in English. For example, students can access RAZ Kids and Reading A-Z, platforms that have this capability. Students and teachers can access Google Translate and other translation services. We use Talking Points, an application that allows for two-way communication in multiple languages. Classroom teachers can send a message/text in English; it is then translated so that the message is received in the preferred language. Parents can respond in their preferred language, and that is translated back to English for the teacher. The Google platform allows for students to collaborate and get immediate feedback on their writing as they share documents easily. These are just a few examples of the many ways in which technology supports the literacy development and language acquisition of all of our students.

Farmingdale is committed to serving all students, and provides technology and apps/online services for all students (General Ed, Special Education, ELL students). Through the displays, Chromebooks, and even iPads, students use text to speech functionality, as well as to dictate information into the device if they have issues with fine motor control.

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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 District is already into its 5th year of a One-to-World Learning Initiative where this sort of learning is at the center. By providing mobile devices to all students and staff in Grades 3-12, students and teachers are able to collaborate and communicate using GSuitetools and provide a vehicle for a learning continuum outside of the classroom and increase home access to technology in an effort to attack the "digital divide". Today, students are creating more digital content and publishing to a greater audience. Staff and students are also provided the ability to connect via remote access to their Farmingdale Classlink Learning Portal. This allows us to further expand the computing resources of Farmingdale Schools. The technology purchased will allow teachers to record screencasts of lessons which can be shared with parents and posted on websites or Google Classroom. This will facilitate ongoing communication with parents and other stakeholders. In addition, both the interactive classroom displays and Chromebooks have the ability to host Google Hangout videoconferences, which support remote learning opportunities for students. Moving beyond virtual, Farmingdale Schools is fortunate to be located in close proximity to many corporate partners and community leaders. Some of these partners include Suffolk Community College, Long Island University, Altice, and Hofstra University, who have mentored our students, visited and spoken to classes about colleges/careers, delivered cutting-edge technologies, and assisted us with planning for the future. We plan to maintain these important community-based partnerships moving forward. This plan supports the purchase of classroom technology that will help to provide greater opportunities for our high school students to pursue careers in STEM, Business, and Career and Technical Education.

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."

The District provides support for technology professional development through a number of support systems. In determining the variety of needs for staff development, the Professional Development Committee, District Administration, and the Teacher Center, surveys faculty to obtain the scope of needs. This information is used to build meaningful staff development opportunities.

- Faculty, department and grade level meetings have been the forums for informal discussions about what is needed in specific areas of the curriculum.
- District data assessment teams have been developed at the building level. Through the use of data assessment tools to look at student achievement, we make informed decisions in planning professional development offerings.
- Professional development sessions serve as a major source of this feedback. Professional development offerings are designed to support the district goals for the use and integration of technology in the classroom. Farmingdale teachers are required to participate in annual technology professional development workshops, and some of our workshop offerings will include sessions on the effective use of interactive classroom displays. Professional development is run by teachers, instructional coaches, BOCES Model Schools staff and administration throughout the year using the teacher contract hours. Additionally, the Farmingdale Teacher Center offers courses throughout the entire year to support teacher learning. In addition, our PD offerings train our teachers in new technologies in support of The Partnership for 21st Century Skills student outcomes which include; skills, knowledge and the expertise to succeed in work and life in the 21st century. Farmingdale has been a trailblazer in the use of Digital Camps, Learning Institutes and Connected Educators Meet-ups. These formal and informal social networks have created a stream of learning for our teachers and administrators, thus advancing the use of technology in instruction. Other PD structures such as Learning Walks, Admin Walks, Inquiry Teams and District-wide leadership development opportunities for teachers and administration lead to a deeper understanding of the learning environment. The following topics are of interest based on the surveys:
 - GSuite, Chromebooks, Pear Deck, Nearpod, Formative and Summative Assessment, Buncee, Flipgrid
 - Meeting the needs of Special Education Learners, ENL, poverty, diverse learners

9. **Districts must contact one of the SUNY/CUNY teacher preparation programs listed on the document on the left side of the page that supplies the largest number of the district's new teachers to request advice on innovative uses and best practices at the intersection of pedagogy and educational technology.**

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

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

Stony Brook University

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Classroom Learning Technology

9b. Enter the primary Institution phone number.

631-632-7067

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.

Dr. Craig Markson

10. To ensure the sustainability of technology purchases made with Smart Schools funds, districts must demonstrate a long-term plan to maintain and replace technology purchases supported by Smart Schools Bond Act funds. This sustainability plan shall demonstrate a district's capacity to support recurring costs of use that are ineligible for Smart Schools Bond Act funding such as device maintenance, technical support, Internet and wireless fees, maintenance of hotspots, staff professional development, building maintenance and the replacement of incidental items. Further, such a sustainability plan shall include a long-term plan for the replacement of purchased devices and equipment at the end of their useful life with other funding sources.

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

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

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

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

Select the allowable expenditure type. Repeat to add another item under each type.	Item to be Purchased	Quantity	Cost per Item	Total Cost
Interactive Whiteboards	Newline Interactive Classroom Displays	150	3,200.00	480,000.00
Interactive Whiteboards	Newline Mobile Displays	20	3,500.00	70,000.00
Other Costs	Cables and mounts	150	250.00	37,500.00
Other Costs	Tormach PCNC 440	1	23,000.00	23,000.00
Other Costs	Fusion M2 40	1	33,000.00	33,000.00
Interactive Whiteboards	Visio Smart T.V. 70	6	800.00	4,800.00
Interactive Whiteboards	Flat wall mount running ticker display	2	16,335.00	32,670.00
Other Costs	HP LaserJet Pro 400 Printer M451nm	2	1,000.00	2,000.00
Interactive Whiteboards	Upgrade Interactive TV Displays in Lab	3	3,500.00	10,500.00
Interactive Whiteboards	Interactive Projector	2	3,500.00	7,000.00
Other Costs	Poster Printer	1	3,900.00	3,900.00
Other Costs	Color Printer	1	1,100.00	1,100.00
Desktop Computers	Hard-wired computers to support 3D	5	1,000.00	5,000.00
Tablet Computers	Class set of iPads to use with Vernier Probes for Science and Math Classes	30	500.00	15,000.00
Other Costs	Apple Pencil	30	99.00	2,970.00
Other Costs	Charging Hub for iPads	10	55.00	550.00
Other Costs	Go Direct CO2 Gas Sensor	15	199.00	2,985.00

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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
Other Costs	Go Direct Tris-Compatible Flat pH	30	109.00	3,270.00
Other Costs	Go!Temp Teacher Pack	1	299.00	299.00
Other Costs	Vernier Optical DO Probe	6	299.00	1,794.00
Other Costs	Go Direct Motion Detector	12	99.00	1,188.00
Other Costs	Go Direct Force and Acceleration Sensor	12	99.00	1,188.00
Other Costs	Go Direct 3-Axis Magnetic Field Sensor	12	69.00	828.00
Other Costs	Go Direct Voltage Probe	12	69.00	828.00
Other Costs	Go Direct Current Probe	12	69.00	828.00
Other Costs	Charge Sensor	12	75.00	900.00
Other Costs	Vernier Circuit Board 2	12	129.00	1,548.00
Other Costs	Rotary Motion Sensor	12	169.00	2,028.00
Other Costs	Rotational Motion Accessory Kit	12	110.00	1,320.00
Other Costs	Dynamics Cart and Track System with Go Direct Sensor Cart	1	495.00	495.00
Other Costs	Dynamics Cart and Track System with Go Direct Sensor Cart and Long Track	12	595.00	7,140.00
Other Costs	Fan Cart	4	94.00	376.00
Other Costs	Chemistry Go Direct Deluxe Package	14	681.00	9,534.00
Other Costs	Go Direct Temperature Probe	6	69.00	414.00
Other Costs	Emblaser 2 Laser Cutter/Engraver, 500x300x50mm with Air Assist, camera, WIFI	1	3,533.00	3,533.00
Other Costs	Annual AIO SW License zSpace's Newton's Park, Franklin's Lab, Curie's Elements, Euclid's Shapes and zSpace Experiences	36	400.00	14,400.00
Other Costs	Annual AIO SW License: VIVED Science	36	400.00	14,400.00
Other Costs	zView Camera & Armature for zSpace AIO	10	189.00	1,890.00
Other Costs	Perpetual AIO SW License: zView Software	10	142.00	1,420.00
Other Costs	Follower Eyewear for zSpace	36	9.00	324.00
Other Costs	Warranty on zSpace AIO for an additional year, up to a total of 3 years (first year included in purchase)	36	294.00	10,584.00

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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
Desktop Computers	zSpace All-In-One (AIO) Station (includes zSpace Studio & Leopoly)	36	3,349.00	120,564.00
Other Costs	AH-IPS LED 1920x1080 HDMI input 3-yr warranty	5	229.00	1,145.00
Other Costs	UHD Hand-held camcorder	3	2,995.00	8,985.00
Other Costs	Omni-Directional Electret Condense Mic, black	6	290.00	1,740.00
Other Costs	Fixed height console integrated full cable core extruded aluminum legs and mounting trac, steel feet with levelers, Four RU aluminum turret, SmartCart, Single Monitor arm w/pole & mount, outlets	1	9,830.00	9,830.00
Other Costs	4K Full HD HDMI/3G-SEI On-Camera Monitor	3	559.00	1,677.00
Other Costs	Teleprompter 17	1	1,599.00	1,599.00
Other Costs	Teleprompting Software for PC & MAC	1	75.00	75.00
Other Costs	3200K-5600K Studio & Field LED Light w/DMX	4	879.00	3,516.00
Other Costs	Lyra 1x2 Bi-Color Studio Soft Panel LED Light w/DMX	4	1,119.00	4,476.00
Other Costs	Lyra 1x3 Bi-Color Studio Light w/DMX	2	1,359.00	2,718.00
Other Costs	Iron C-Clamp with 1/2	10	23.00	230.00
Other Costs	Safety Cable	10	6.00	60.00
Other Costs	509 HD Head with 545B Tripod & Midlevel Spreader	1	1,580.00	1,580.00
Other Costs	319 100mm to 75mm Bowl Adapter	2	35.00	70.00
Other Costs	Telescopic PVC-Free 2nd Pan Bar	3	48.00	144.00
Other Costs	Cine/Video Tripod Dolly	3	359.00	1,077.00
Other Costs	Wired Intercom Base Station	1	900.00	900.00
Other Costs	Single ear intercom headset	3	72.00	216.00
Other Costs	Double ear intercom headset	3	104.00	312.00
Other Costs	Single intercom beltpack	6	196.00	1,176.00
Other Costs	POE Managed Switch	1	511.00	511.00
Other Costs	Compact Lighting Console	1	1,495.00	1,495.00
Other Costs	Zoom Focus/Iris Control	3	239.00	717.00
Other Costs	15A Rackmount Power Conditioner w/8Rear Switched Outlets	3	60.00	180.00

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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
Other Costs	Studio reference monitor (pair)	2	479.00	958.00
Other Costs	Lighting Control Cable 5-pin XLR Male to Female 25'	10	46.00	460.00
Other Costs	RG59 23 AWG Sub-Miniature Video Coax Cable 500'	2	239.00	478.00
Other Costs	High Density BNC Plug for Belden 1855A Cable	100	6.00	600.00
Other Costs	BNC Plug Boot for 1855A Cable	100	3.00	300.00
Other Costs	Mic Cable XLR Male to Female 25' - black	10	28.00	280.00
Other Costs	Mic Cable XLR Male to Female 10' - black	10	22.00	220.00
Other Costs	3 Outlet 12/3 Power Cord 25'	6	62.00	372.00
Other Costs	Standard HDMI (M) to HDMI (M) Cable 6'	8	10.00	80.00
Other Costs	DMX Lighting Control Cable 3pin M to F Blue 15'	12	23.00	276.00
Other Costs	Pipe Clamp	12	68.00	816.00
Other Costs	HDMI to Composite scaler w/HDMI	1	278.00	278.00
Other Costs	16+ Fader Digital Audio Console	1	1,880.00	1,880.00
Other Costs	16 Input 8 Output Dante Stage Box	1	960.00	960.00
Other Costs	Dante Expansion Card for TF Mixer	1	360.00	360.00
Other Costs	Dual Intelligent SDI Rack Monitors 8	2	483.00	966.00
Other Costs	Dual 3G/6G-SDI Monitoring w/Built in Scopes 8	1	799.00	799.00
Other Costs	Smart Videohub 40x40 6G-SDI Video Router/Switcher	1	2,922.00	2,922.00
Other Costs	Sig. Series Snake w/XLRF 16	1	286.00	286.00
Other Costs	Tricaster TC1 BASE Bundle (includes TriCaster TC1 2RU and TC1SP)	1	17,995.00	17,995.00
		1,174	158,294.00	1,008,783

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

	Public Enrollment	Nonpublic Enrollment	Total Enrollment	Nonpublic Percentage
Enrollment	5,818	0	5,818.00	0.00

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

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Classroom Learning Technology

	Public School Sub-Allocation	Estimated Nonpublic Loan Amount (Based on Percentage Above)	Estimated Total Public and Nonpublic Sub-Allocation
Interactive Whiteboards	604,970.00	0.00	604,970.00
Computer Servers	(No Response)	0.00	0.00
Desktop Computers	125,564.00	0.00	125,564.00
Laptop Computers	(No Response)	0.00	0.00
Tablet Computers	15,000.00	0.00	15,000.00
Other Costs	263,249.00	0.00	263,249.00
Totals:	1,008,783.00	0	1,008,783

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Pre-Kindergarten Classrooms

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

(No Response)

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

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

(No Response)

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

(No Response)

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

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

Project Number
(No Response)

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

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

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

Note that the calculated Total at the bottom of the table must equal the Total allocation for this category that you entered in the SSIP Overview overall budget.

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

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Replace Transportable Classrooms

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

(No Response)

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

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

Project Number
(No Response)

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

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

(No Response)

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

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

5. If you have made an allocation for Replace Transportable Classrooms, complete this table.
Note that the calculated Total at the bottom of the table must equal the Total allocation for this category that you entered in the SSIP Overview overall budget.

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

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High-Tech Security Features

1. Describe how you intend to use Smart Schools Bond Act funds to install high-tech security features in school buildings and on school campuses.

The district's present inventory of security cameras, and the software that enables them, is quickly becoming obsolete. We propose investing in a 'Lockdown' solution that will include a refresh of existing as well as new cameras and DVRs, panic buttons, integrated PA and IP phone capabilities, and high-powered strobe lights. This thorough upgrade of our security features, and extending the coverage of the high definition cameras on our premises, will ensure a safe environment for students and school community in general. Our initiative will furnish the installation, equipment, engineering, licensing, and start up labor for the panic and surveillance system.

This is a district-wide employment. The main safety and security functions of the systems are:

- To perform a facility-wide lockdown in the event of an emergency by sending a live or prerecorded PA notification from a desk phone, mobile phone, or dedicated panic button, and activate physical security to immediately secure buildings.
- A customizable lockdown message will be displayed on all computer screens. IP phones will display and activate an audible message.
- This system will inform key personnel of emergency situations and facilitate swift building evacuations through comprehensive emergency notification. High powered, exterior strobe lights are to alert mobile users to stay away from the building. Interior strobe lights will be strategically placed in large and often loud areas to visually alert students of a lockdown situation.
- The panic buttons will be integrated via intrusion panels, allowing the ability to alert central station monitoring and police instantly.

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

Project Number
28-05-22-03-7-999-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
H2M Architects	33063

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

Select the allowable expenditure type. Repeat to add another item under each type.	Item to be purchased	Quantity	Cost per Item	Total Cost
Electronic Security System	4MP H.265 2.8mm IP Camera (CMP 1228)	254	299.00	75,946.00
Electronic Security System	5MP Vandal 2.8mm IP Camera (ILS-CEVD5MP)	138	349.00	48,162.00

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High-Tech Security Features

Select the allowable expenditure type. Repeat to add another item under each type.	Item to be purchased	Quantity	Cost per Item	Total Cost
Electronic Security System	Interior Camera Install and Configuration	254	1,340.00	340,360.00
Electronic Security System	Exterior Camera Install and Configuration	138	1,693.00	233,634.00
Electronic Security System	ILS PA Integration Module (LCK-PAINTMOD)	7	1,075.00	7,525.00
Electronic Security System	ILS PA Integration Installation and Configuration	7	1,965.00	13,755.00
Entry Control System	Panic Stopper Station w/Cover (AP669)	20	179.00	3,580.00
Entry Control System	16 Channel I/O Controller (CCIO16)	6	299.00	1,794.00
Entry Control System	Wire mold (788-18)	20	49.00	980.00
Entry Control System	Alarm Controls - POPIT (LUC)	20	40.00	800.00
Entry Control System	Panic Stopper Station Install and Configuration	20	927.00	18,540.00
Entry Control System	ILS Computer Lockdown System - Initiating System (LCK-PCLCKDWN)	7	1,800.00	12,600.00
Entry Control System	ILS Computer Lockdown System - Annunciating System (LCK-PCLCKDWN)	7	1,800.00	12,600.00
Entry Control System	ILS Computer Lockdown System - Configuration (LAB-LCK-PCLCKDWN2)	7	605.00	4,235.00
Entry Control System	IP Phone Integration Module (LCK-IPINTMOD)	7	1,075.00	7,525.00
Entry Control System	IP Phone Integration Module Configuration (LAB-LCK-IPINTMODC4)	7	740.00	5,180.00
Entry Control System	Software and Programming (ACCPROG)	7	375.00	2,625.00
Entry Control System	Strobe Light (COM-STRSIR)	70	229.00	16,030.00
Entry Control System	Power Supply 12V DC (FA-NACPS)	6	674.00	4,044.00
Entry Control System	8 Channel Fire Switch Communicator (FIRESWITCH108)	13	590.00	7,670.00
Entry Control System	16 Channel I/O Controller (CCIO16)	7	299.00	2,093.00
Entry Control System	Lockdown Strobe Install and Configuration	70	1,284.00	89,880.00
Electronic Security System	VMS 3.0 Server (128-Channel) (COMMUT)	4	16,799.00	67,196.00

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High-Tech Security Features

Select the allowable expenditure type. Repeat to add another item under each type.	Item to be purchased	Quantity	Cost per Item	Total Cost
Electronic Security System	EMAP Mapping and Configuration (LAB-CC-EMAPCC4)	4	700.00	2,800.00
		1,100	35,185.00	979,554

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

	Sub-Allocation
Capital-Intensive Security Project (Standard Review)	(No Response)
Electronic Security System	789,378.00
Entry Control System	190,176.00
Approved Door Hardening Project	(No Response)
Other Costs	(No Response)
Totals:	979,554.00