

Smart Schools Investment Plan - 2016-17 Version (Original) - Taconic Hills 2016 Fall (update #3)

SSIP Overview

Page Last Modified: 05/15/2018

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

John Dodds

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

5183252877

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

jdodds@taconichills.k12.ny.us

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 occurred as part of a normal Board meeting, but adequate notice of the event must have been provided through local media and the district website for at least two weeks prior to the meeting.
-
-
- The district prepared a final plan for school board approval and such plan has been approved by the school board.
-
-
- The final proposed plan that has been submitted has been posted on the district's website.

Smart Schools Investment Plan - 2016-17 Version (Original) - Taconic Hills 2016 Fall (update #3)

SSIP Overview

Page Last Modified: 05/15/2018

- 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.

1740-BOE-policy.pdf
 SSIP BoardPresentation.pptx
 TH-SSIP-2016.pdf
 LOI_Forms.pdf
 SSIPquotes.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.

https://www.taconichills.k12.ny.us/domain/136

- 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.

1,700

- 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:

\$918,125

- 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 | 279,740 |
| Connectivity Projects for Communities | 0 |
| Classroom Technology | 159,432 |
| Pre-Kindergarten Classrooms | 0 |
| Replace Transportable Classrooms | 0 |
| High-Tech Security Features | 295,201 |
| Totals: | |

Smart Schools Investment Plan - 2016-17 Version (Original) - Taconic Hills 2016 Fall (update #3)

SSIP Overview

Page Last Modified: 05/15/2018

| | |
|--|-----------------|
| | Sub-Allocations |
| | 734,373 |

Smart Schools Investment Plan - 2016-17 Version (Original) - Taconic Hills 2016 Fall (update #3)

School Connectivity

Page Last Modified: 04/25/2018

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.

We currently have a 250MB connection (copper) which meets the States requirements. Ultimately we are looking to get a 1GB connection (fiber).

- 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 | 1,431 | 143,100 | 143 | 250 | 250 | (No Response) |

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

In order to get to the 1GB connection our "last mile" provider is asking for a onetime investment of \$86,150. This would cover fiber line and equipment solely used by us from main trunk to inside our building at MDF closet, all within land owned by school. In the SSIPquotes.pdf there is an aerial photo showing line run on school grounds.

Expanding and updating wireless network on campus. We need to make a more robust system to handle the ever increasing number of devices connecting to our system. Currently every other classroom has an access point. We need to expand, putting access points in every classroom and adding access points to larger rooms like gyms and cafeterias. Currently we have only eight exterior access points around the outside of main school building. Expanding coverage on exterior of school, by adding more to main building and putting access points at the feature field tower. The Athletic feature fields are located on school grounds, east of main building. The centrally located, three story tower, is a secure location we would like to put a switch for attaching all cameras and access points that will be on exterior of tower. The area is used by most varsity sports and teachers wanting to expand the walls of the classroom. Teachers hold classes on fields and bleachers around tower when weather is nice. Update all existing access points from 802.11n to 802.11ac. More access points in turn will need larger server (WAC).

We will be using our Federal E-Rate funds in conjunction with SSIP funds to purchase access points and switches for this project. Our Category 2 E-rate Application is asking for SSIP to cover balance of cost, approximately 20% on items listed in E-rate (not all items for project are in E-rate).

Smart Schools Investment Plan - 2016-17 Version (Original) - Taconic Hills 2016 Fall (update #3)

School Connectivity

Page Last Modified: 04/25/2018

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?")

By providing teachers and students mobility through a reliable wireless connections for multiple devices. Being able to use technology inside and outside the four walls of a classroom. Having a robust system so there is continuity to teaching (having uninterrupted teaching). Being able to use multiple devices to access the network/internet expanding knowledge base of not only the curriculum but also the use of device.

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.

We currently cover 95% of the interior of building with 802.11n. System was installed 5 years ago, we would like to expand coverage and update units. To accommodate increased BYOD and increasing number of laptops issued for 1:1 we need to increase number of access points inside and outside of building, at the same time, increasing speed to 802.11ac. This in turn requires updating wireless access controller.

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 |
| 10-05-01-04-7-999-BA1 |
| 10-05-01-04-7-999-001 |

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

Was your project deemed eligible for streamlined review?

No

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

| | |
|---------------------|----------------|
| Name | License Number |
| Matthew S. Monaghan | 29199 |

9. If you are submitting an allocation for **School Connectivity** complete this table. Note that the calculated Total at the bottom of the table must equal the Total allocation for this category that you entered in the SSIP Overview overall budget.

| | |
|--|----------------|
| | Sub-Allocation |
| Network/Access Costs | 87,809 |
| Outside Plant Costs | 69,150 |
| School Internal Connections and Components | 64,781 |
| Professional Services | 58,000 |
| Testing | (No Response) |

Smart Schools Investment Plan - 2016-17 Version (Original) - Taconic Hills 2016 Fall (update #3)

School Connectivity

Page Last Modified: 04/25/2018

| | |
|---------------------|--------------------|
| | Sub- Allocation |
| Other Upfront Costs | (No Response) |
| Other Costs | (No Response) |
| Totals: | 279,740 |

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 | Wireless Access Controller (server) | 2 | 30,000 | 60,000 |
| Network/Access Costs | access points - Erate 20% | 200 | 60 | 12,000 |
| Network/Access Costs | switches - Erate 20% | 13 | 1,075 | 13,975 |
| Network/Access Costs | Aruba 5412R z12 - Main Core switch chassis - Erate 20% | 1 | 1,834 | 1,834 |
| Connections/Components | running additional Cat6 to access points | 40 | 1,137 | 45,480 |
| Professional Services | Architectural and Technical planning provided by SEI Design Group for all projects in SSBA | 1 | 47,000 | 47,000 |
| Outside Plant Costs | Mainline OSP outside of building - running fiber above and below ground, poles, fiber line and attachments | 1 | 69,150 | 69,150 |
| Professional Services | GTel - for planning project and programming electronics | 1 | 11,000 | 11,000 |
| Connections/Components | ONT, Fiber Management, electronics in building | 1 | 6,000 | 6,000 |
| Connections/Components | Aruba 5412R z12 - Main Core switch modules - Erate 20% | 4 | 993 | 3,972 |
| Connections/Components | Aruba 5412R z12 - Main Core switch transceiver - Erate 20% | 1 | 9,329 | 9,329 |

Smart Schools Investment Plan - 2016-17 Version (Original) - Taconic Hills 2016 Fall (update #3)

Community Connectivity (Broadband and Wireless)

Page Last Modified: 09/28/2017

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

N/A

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

N/A

3. Community connectivity projects must comply with all the necessary local building 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.

N/A

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 # |
|------------------|---------------|
| N/A | (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.

Smart Schools Investment Plan - 2016-17 Version (Original) - Taconic Hills 2016 Fall (update #3)

Community Connectivity (Broadband and Wireless)

Page Last Modified: 09/28/2017

| 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) |

Smart Schools Investment Plan - 2016-17 Version (Original) - Taconic Hills 2016 Fall (update #3)

Classroom Learning Technology

Page Last Modified: 04/25/2018

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.

We currently have a 250MB connection which meets the States requirements for 1,431 students. We currently are doing NWEA for grades K - 8 without issue but would like to tighten down the current window of a month to a week. With a more robust wireless system and added devices we can meet that goal.

- 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 | 1,431 | 143,100 | 143 | 250 | 250 | (No Response) |

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

Please describe how you have quantified this demand and how you plan to meet this demand.

Our current system can handle K-8 testing over a one month window because we do it. By doing the proposed updates we hope to close the window down to just one week. Starting at the user end, we are figuring on school issued laptop and student cell phones connecting to wireless (two devices per student). Two wireless changes are, one, increasing the physical number of access points inside and outside the building. Second is by updating the type of access point (new ones will handle half again the traffic throughput as the old ones). On to the backbone with more switches in network closets spreading the load, a larger main core switch with more fiber connections back to the switches. A second wireless controller allows for redundancy and more through put. For the "last mile" issue with our network provider: updating from copper to fiber, taking us from 250MB to 1GB connection.

Smart Schools Investment Plan - 2016-17 Version (Original) - Taconic Hills 2016 Fall (update #3)

Classroom Learning Technology

Page Last Modified: 04/25/2018

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.**

We currently have a replacement cycle in place to accommodate the 1:1 and the elementary touch screens demands. The laptops will be minimum of quad-core with 128GB SSHD and 11" screens for student 1:1. Grades 6 - 12 will be issued laptops this coming year.

The touch screen laptops are for teachers and students in Elementary. Do to the fact we are getting the same model laptop, teachers and students will have same experience using them. This will reduce time spent teaching how to use hardware and more time on educating.

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 laptops purchased with SSBA funds will be used in the elementary by all students. The added units will cover the ever growing need for accessing the internet. Giving more student more time on devices for learning with uninterrupted teaching.

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.**

Currently all DL students have laptops for their use in and out of class. With the expansion of 1:1 now including grades 11 and 12 it will hopefully expand the use of the two DL rooms. Teachers are finding it easy to use Google Classroom for posting assignments and giving tests in the distance learning environment. Google G suite also has ability for parents to join and monitor child's work (Guardian). The SIS we use (Schooltool) also allows parents to either login on computer or add an app on their phone to see discipline and grades of their children. Another feature of our SIS allows teachers to send group emails to parents and/or students, grouped by their classes.

Smart Schools Investment Plan - 2016-17 Version (Original) - Taconic Hills 2016 Fall (update #3)

Classroom Learning Technology

Page Last Modified: 04/25/2018

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 offered to teachers and staff during this time frame will be software and hardware based. Software will cover but not limited to Smartboard, Google classroom, Schoology, NWEA, eDoctrina as teaching and data collection tools. Hardware will be using their laptops, Smartboards and student laptops to the fullest. Interacting with Google emails and documents, using discussion threads in Schoology (our SIS) to learn proper etiquette for interacting via the web.

As stated in the Technology plan, these trains will be offered on Superintendents Days and at special interactive workshops that are timely throughout the year. The training during "Tech Tuesday" has expanded into Monday mornings as well. Finding most of the FTE time is spent at grade level meetings and one-on-one with teachers training them how to implement and use technology.

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.

University at Albany

- 9b. Enter the primary Institution phone number.

518.447.3300

- 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. Jianwei Zhang

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

- 10a. Describe your plan to loan purchased hardware to nonpublic schools within your district. The plan should use your district's nonpublic per-student loan amount calculated below, within the framework of the guidance. Please enter the date by which nonpublic schools must request classroom technology items. Also, specify in your response the devices that the nonpublic schools have requested, as well as in the in the Budget and the Expenditure Table at the end of the page.

As per Policy 7140 and 7140R, THCS will send a notice on or before March 1 requesting the non-public school submit request for technology between June 1 and June 30. Hawthorne Valley currently has a wireless network installed. They are requesting classroom technology consisting of one desktop computer for eight classrooms and a laptop cart of 30 units. Also includes is a Brightlink for one classroom, it will be used for presenting interactive lessons to students. The two document cameras will float between classrooms for presenting to students using projectors. The document cameras have added capability of connecting to a microscope for science classes. Hawthorne Valley is also getting four tablets for students, the touch screen for special computer programs and needs. The five bamboo tablets are for art classes offered, able to digitally make varying brush strokes.

Smart Schools Investment Plan - 2016-17 Version (Original) - Taconic Hills 2016 Fall (update #3)

Classroom Learning Technology

Page Last Modified: 04/25/2018

- 10b. A final Smart Schools Investment Plan cannot be approved until school authorities have adopted regulations specifying the date by which requests from nonpublic schools for the purchase and loan of Smart Schools Bond Act classroom technology must be received by the district.**

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

- 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 | 159,432 | 1,377 | 264 | 1,641 | 97 | 25,608 |

- 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 | 0 |
| Computer Servers | 0 |
| Desktop Computers | 6,304 |
| Laptop Computers | 145,794 |
| Tablet Computers | 1,603 |
| Other Costs | 5,731 |
| Totals: | 159,432 |

- 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**

Smart Schools Investment Plan - 2016-17 Version (Original) - Taconic Hills 2016 Fall (update #3)

Classroom Learning Technology

Page Last Modified: 04/25/2018

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 |
|---|---|----------|---------------|------------|
| Laptop Computers | Lenovo 11E w/touchscreen | 15 | 533 | 7,995 |
| Laptop Computers | Lenovo 11e | 279 | 451 | 125,829 |
| Desktop Computers | Nonpublic Loan Amount (Hawthorne Valley) desktops | 8 | 788 | 6,304 |
| Laptop Computers | Nonpublic Loan Amount (Hawthorne Valley) laptops | 30 | 399 | 11,970 |
| Tablet Computers | Nonpublic Loan Amount (Hawthorne Valley) tablets | 4 | 242 | 968 |
| Tablet Computers | Nonpublic Loan Amount (Hawthorne Valley) bamboo tablet | 5 | 127 | 635 |
| Other Costs | Nonpublic Loan Amount (Hawthorne Valley) interactive projectors | 1 | 3,027 | 3,027 |
| Other Costs | Nonpublic Loan Amount (Hawthorne Valley) document camera | 2 | 482 | 964 |
| Other Costs | Nonpublic Loan Amount (Hawthorne Valley) cart | 1 | 1,699 | 1,699 |
| Other Costs | Unassigned nonpublic expenditures | 1 | 41 | 41 |

Smart Schools Investment Plan - 2016-17 Version (Original) - Taconic Hills 2016 Fall (update #3)

Pre-Kindergarten Classrooms

Page Last Modified: 07/31/2017

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.

N/A

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.

N/A

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.

N/A

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.

Smart Schools Investment Plan - 2016-17 Version (Original) - Taconic Hills 2016 Fall (update #3)

Pre-Kindergarten Classrooms

Page Last Modified: 07/31/2017

| 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) |

Smart Schools Investment Plan - 2016-17 Version (Original) - Taconic Hills 2016 Fall (update #3)

Replace Transportable Classrooms

Page Last Modified: 07/31/2017

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

N/A

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 |
| N/A |

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.

N/A

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 | 0 |
| Enhance/Modernize Existing Instructional Space | 0 |
| Other Costs | 0 |
| 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) | N/A | (No Response) | (No Response) | 0 |

Smart Schools Investment Plan - 2016-17 Version (Original) - Taconic Hills 2016 Fall (update #3)

High-Tech Security Features

Page Last Modified: 04/04/2018

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.

There are four different areas.

1. Upgrade obsolete access control hardware: add 5 additional access doors, and add door contacts on all exterior doors
2. Add three Raptor Visitor Management Systems with kiosk
3. Update and expand security camera system. Add 7 high megapixel exterior cameras, 33 interior cameras and additional storage capacity on server.
4. Changing the controller of our PA system, it will integrate with current and future security systems upgrades. Currently it is tied to the phone system allowing an "all call" throughout building or district. It will be connected to the panic button system (currently installed) which directly alerts Columbia County Sherriff's department.

Three major security features this stage addresses are:

- When calling a lock down from any phone in building, through PA system, will cause panic button system to activate.
- When one of the seven panic buttons are pressed, a prerecorded message will announce a lock down on PA system.
- It will also fix low volume issues that cannot be resolved on current system. Example: making it audible in a noisy cafeteria.

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 |
| 10-05-01-04-7-999-BA1 |
| 10-05-01-04-7-999-001 |

3. Was your project deemed eligible for streamlined Review?

- Yes
 No

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

| Name | License Number |
|---------------------|----------------|
| Matthew S. Monaghan | 29199 |

5. If you have made an allocation for High-Tech Security Features, complete this table.

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

| | Sub-Allocation |
|--|----------------|
| Capital-Intensive Security Project (Standard Review) | 0 |
| Electronic Security System | 145,154 |
| Entry Control System | 150,047 |
| Approved Door Hardening Project | 0 |
| Other Costs | 0 |
| Totals: | 295,201 |

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

Smart Schools Investment Plan - 2016-17 Version (Original) - Taconic Hills 2016 Fall (update #3)

High-Tech Security Features

Page Last Modified: 04/04/2018

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 |
|---|---|----------|---------------|------------|
| Entry Control System | Raptor access control system - printers and scanners | 3 | 1,101 | 3,303 |
| Electronic Security System | Exterior camera | 7 | 1,700 | 11,900 |
| Electronic Security System | Interior cameras | 33 | 1,450 | 47,850 |
| Electronic Security System | PA system - switching cards | 10 | 1,155 | 11,550 |
| Electronic Security System | Server for cameras | 2 | 20,200 | 40,400 |
| Electronic Security System | Installing Cat6 for additional cameras | 40 | 325 | 13,000 |
| Entry Control System | Update door contacts on all exterior doors | 68 | 2,017 | 137,156 |
| Electronic Security System | PA system - controller | 1 | 11,654 | 11,654 |
| Electronic Security System | PA system - labor for installing and connecting phone, PA and panic buttons together. | 80 | 110 | 8,800 |
| Entry Control System | Raptor access control system - touch screen kiosks | 3 | 1,169 | 3,507 |
| Entry Control System | Raptor access control system - desktop | 6 | 675 | 4,050 |
| Entry Control System | Raptor access control system - software and setup | 3 | 677 | 2,031 |

