

Smart Schools Investment Plan - 2016-17 Version (Original) - Pine Bush CSD\_Supplemental\_#2

SSIP Overview

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**Institution ID**

80000040463

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

John Hicks

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

845-744-2031 ext 4040

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

john.hicks@pinebushschools.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.

Supplemental submission

3. All New York State public school districts are required to complete and submit a District Instructional Technology Plan survey to the New York State Education Department in compliance with Section 753 of the Education Law and per Part 100.12 of the Commissioner's Regulations. Districts that include investments in high-speed broadband or wireless connectivity and/or learning technology equipment or facilities as part of their Smart Schools Investment Plan must have a submitted and approved Instructional Technology Plan survey on file with the New York State Education Department.

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

District Educational Technology Plan Submitted to SED and Approved

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

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

Parents

Teachers

Students

Community members

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

Yes

No

N/A

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5. **Certify that the following required steps have taken place by checking the boxes below: Each box must be checked prior to submitting your Smart Schools Investment Plan.**

- The district developed and the school board approved a preliminary Smart Schools Investment Plan.
- The preliminary plan was posted on the district website for at least 30 days. The district included an address to which any written comments on the plan should be sent.
- The school board conducted a hearing that enabled stakeholders to respond to the preliminary plan. This hearing may have occurred as part of a normal Board meeting, but adequate notice of the event must have been provided through local media and the district website for at least two weeks prior to the meeting.
- The district prepared a final plan for school board approval and such plan has been approved by the school board.
- The final proposed plan that has been submitted has been posted on the district's website.

5a. **Please upload the proposed Smart Schools Investment Plan (SSIP) that was posted on the district's website, along with any supporting materials. Note that this should be different than your recently submitted Educational Technology Survey. The Final SSIP, as approved by the School Board, should also be posted on the website and remain there during the course of the projects contained therein.**

Smart Schools Phase 2 Preliminary SSIP.pdf

5b. **Enter the webpage address where the final Smart Schools Investment Plan is posted. The Plan should remain posted for the life of the included projects.**

[http://www.pinebushschools.org/pages/Pine\\_Bush\\_CSD/Main\\_Menu/Community/Smart\\_Schools\\_Bond\\_Act](http://www.pinebushschools.org/pages/Pine_Bush_CSD/Main_Menu/Community/Smart_Schools_Bond_Act)

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.**

5,912

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:**

\$5,050,017

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	256,595
Connectivity Projects for Communities	

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	Sub-Allocations
	0
Classroom Technology	0
Pre-Kindergarten Classrooms	0
Replace Transportable Classrooms	0
High-Tech Security Features	717,273
<b>Totals:</b>	<b>973,868</b>

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School Connectivity

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

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

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

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

The school district utilizes a BOCES Cooperative Service for Internet bandwidth services. As such, we are maximizing both our investment as well as utilize the ability for our bandwidth to "burst" as necessary when demand peaks. The district currently contracts for 539Mbps of bandwidth and has the ability to burst above 539Mbps as needed.

- 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	5,134	513,400	513.4	539	539	currently met

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

The project will improve the integrity of most of the the district's wiring closets. Closets not being addressed in this project were addressed in the district's Smart Schools Phase 1 project. This in turn will help ensure maximum up time for the district's high-speed broadband connection throughout the school buildings and provide the fiber optic backbone to increase the speed between wiring closets. The majority of this project will focus on high tech security features.

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

The district is committed to improving and maintaining the quality and integrity of the connectivity infrastructure. This provides the district with the foundation to support our instructional technology initiatives. The connectivity improvements and expansions in this project will accomplish this by ensuring that our connectivity infrastructure is both sound and robust.

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School Connectivity

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- 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.**

The district completed a capital project in early 2015 which upgraded the district's Wi-Fi network throughout all of the district's schools. Wi-Fi is available in every instructional and large space in the district and is robust enough to handle our one to one initiative.

- 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
44-04-01-06-7-999-007

- 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
Scott Duell	22982

- 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	0
Outside Plant Costs	161,151
School Internal Connections and Components	90,085
Professional Services	0
Testing	5,359
Other Upfront Costs	0
Other Costs	0
<b>Totals:</b>	<b>256,595</b>

- 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](mailto:smartschools@nysed.gov).**

**NOTE: Wireless Access Points should be included in this category, not under Classroom Educational Technology,**

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## School Connectivity

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**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
Connections/Components	Fiber Optic Cabling - Short Length Backbone	5	3,140	15,698
Connections/Components	Fiber Optic Cabling - Medium Length Backbone	10	3,985	39,848
Connections/Components	Fiber Optic Cabling - Long Length Backbone	6	5,192	31,154
Testing	Termination and Test	504	6	3,041
Connections/Components	Fiber Patch Cables	100	12	1,208
Connections/Components	Rack Modifications	1	2,177	2,177
Outside Plant Costs	Fiber Optic Cabling in Exist Duct bank	4,250	15	61,583
Outside Plant Costs	Fiber Optic Cabling in New Duct bank	2,250	12	27,169
Outside Plant Costs	Conduit Repair	100	10	966
Outside Plant Costs	Pull Boxes	5	1,449	7,245
Testing	Termination and Test	240	10	2,318
Outside Plant Costs	Duct Bank (\$/Ft)	1,735	30	52,375
Outside Plant Costs	Directional Boring (\$/Ft)	200	42	8,453
Outside Plant Costs	Patch Cables	30	12	362
Outside Plant Costs	Site Restoration	1	2,998	2,998

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High-Tech Security Features

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

The requested Smart School Bond funding will be used to:

- Install door access controls on doors used by staff
- Upgrade outdated intrusion detection systems in all school buildings and connect to door access control system
- Upgrade analog phone system in six of the district's seven schools to add security features
- Upgrade mass notification system in the district's high school

The existing phone system will be upgraded to remove analog, single line wall telephones in the classrooms with new IP (network) telephones with LCD Displays and speaker capabilities. This will allow for emergency notification message to be send over the District's IP Network to the upgraded phones. Also, the new IP Phones will be much more reliable and can be programmed to dial 911 and allow the District Administration to know the exact location the 911 call originated from.

The District current Public Address system is not reliable and there are many locations in the High School and at the exterior of the school that cannot hear Emergency Announcements for Mass Notification and Lockdown. The new Mass Notification system will also be integrated with the Automated Lockdown System so when a panic button or telephone system lockdown code is dialed there is an automated Lockdown Message transmitted over the new Mass Notification System.

**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
44-04-01-06-7-999-007

**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
Scott Duell	22982

**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)	(No Response)
Electronic Security System	267,612
Entry Control System	449,661
Approved Door Hardening Project	(No Response)
Other Costs	(No Response)
<b>Totals:</b>	<b>717,273</b>

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

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High-Tech Security Features

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**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](mailto: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
Electronic Security System	IP Gateways	6.00	3,623	21,735
Electronic Security System	Analog Adaptors	18.00	423	7,607
Electronic Security System	IP Telephones	63.00	483	30,429
Electronic Security System	IP Cabling for Telephone	63.00	543	34,233
Electronic Security System	IP Administrative Console and integration	1.00	3,019	3,019
Entry Control System	New Doors with New Card Readers /RIM Strike	37.00	5,796	214,452
Entry Control System	Security Control Panels	2.00	2,415	4,830
Entry Control System	Control Panel - Large Facility	1.00	10,868	10,868
Entry Control System	Control Panel - Medium Facility	2.00	8,453	16,905
Entry Control System	Control Panel - Small Facility	7.00	6,038	42,263
Entry Control System	Motion Detector	98.00	580	56,801
Entry Control System	Exterior Entrance	154.00	483	74,382
Entry Control System	Individual Doors	324.00	60	19,560
Entry Control System	Garage Doors	5.00	121	604
Entry Control System	Integration Services	1.00	8,996	8,996
Electronic Security System	Demo of existing Sound System	1.00	1,208	1,208
Electronic Security System	Demo of old speakers	215.00	30	6,490
Electronic Security System	Demo old wire	1.00	8,453	8,453
Electronic Security System	New Sound / Mass Notification Rack	1.00	12,075	12,075
Electronic Security System	New Speakers	215.00	78	16,875
Electronic Security System	New Speakers wiring	137.00	272	37,220
Electronic Security System	Corridor Speakers wiring circuits	8.00	600	4,800
Electronic Security System	Override relays	3.00	604	1,811
Electronic Security System	24 Port IP gateway module	12.00	6,038	72,450
Electronic Security System	Corridor Circ Amps	8.00	543	4,347
Electronic Security System	IP Intergration I/O modules	5.00	60	302
Electronic Security System	Integration to Lockdown System	1.00	4,558	4,558