

## Smart Schools Investment Plan - 2016-17 Version (Original) - SecurityUpgrades

## SSIP Overview

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

Cliff Butler

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

607-763-1247

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

cbutler@jcschools.stier.org

2. Please indicate below whether this is the first submission, a new or supplemental submission or an amended submission of an approved Smart Schools Investment Plan.

First submission

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

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

 District Educational Technology Plan Submitted to SED and Approved

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

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

- 
- Parents
- 
- 
- Teachers
- 
- 
- Students
- 
- 
- Community members

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

- 
- Yes
- 
- 
- No
- 
- 
- N/A

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

- 
- The district developed and the school board approved a preliminary Smart Schools Investment Plan.
- 
- 
- The preliminary plan was posted on the district website for at least 30 days. The district included an address to which any written comments on the plan should be sent.
- 
- 
- The school board conducted a hearing that enabled stakeholders to respond to the preliminary plan. This hearing may have 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.

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- 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.

JCSSIP.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.jcschools.com/District/SmartSchools.html>

- 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.

3,200

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

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

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

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

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

(No Response)

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

\$1,970,831

- 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                   | 0               |
| Connectivity Projects for Communities | 0               |
| Classroom Technology                  | 0               |
| Pre-Kindergarten Classrooms           | 0               |
| Replace Transportable Classrooms      | 0               |
| High-Tech Security Features           | 691,101         |
| <b>Totals:</b>                        | <b>691,101</b>  |

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Community Connectivity (Broadband and Wireless)

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

(No Response)

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

(No Response)

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

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

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

(No Response)

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

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

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

|                             | Sub-Allocation |
|-----------------------------|----------------|
| Network/Access Costs        | 0              |
| Outside Plant Costs         | 0              |
| Tower Costs                 | 0              |
| Customer Premises Equipment | 0              |
| Professional Services       | 0              |
| Testing                     | 0              |
| Other Upfront Costs         | 0              |
| Other Costs                 | 0              |
| <b>Totals:</b>              | <b>0</b>       |

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](mailto:smartschools@nysed.gov). Add rows under each sub-category for additional items, as needed.

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Community Connectivity (Broadband and Wireless)

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| Select the allowable expenditure type.<br>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) |

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Classroom Learning Technology

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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.

(No Response)

- 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 | (No Response)      | (No Response)        | (No Response)                                     | (No Response)       | (No Response)                                  | (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.

(No Response)

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.

(No Response)

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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?")

(No Response)

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.

(No Response)

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."

(No Response)

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.

(No Response)

- 9b. Enter the primary Institution phone number.

(No Response)

- 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.

(No Response)

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

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

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

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

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

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

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

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

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

|                         | Sub-Allocation |
|-------------------------|----------------|
| Interactive Whiteboards | 0              |
| Computer Servers        | 0              |
| Desktop Computers       | 0              |
| Laptop Computers        | 0              |
| Tablet Computers        | 0              |
| Other Costs             | 0              |
| <b>Totals:</b>          | <b>0</b>       |

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

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Classroom Learning Technology

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**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.<br>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) |



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Pre-Kindergarten Classrooms

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

(No Response)

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

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

(No Response)

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

(No Response)

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

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

|                |
|----------------|
| Project Number |
| (No Response)  |

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

|  | Sub-Allocation |
|--|----------------|
| Construct Pre-K Classrooms               | 0              |
| Enhance/Modernize Educational Facilities | 0              |
| Other Costs                              | 0              |
| <b>Totals:</b>                           | <b>0</b>       |

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](mailto:smartschools@nysed.gov).

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

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Pre-Kindergarten Classrooms

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| Select the allowable expenditure type.<br>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) |

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Replace Transportable Classrooms

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

(No Response)

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

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

|                |
|----------------|
| Project Number |
| (No Response)  |

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

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

(No Response)

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

|  | Sub-Allocation |
|--|----------------|
| Construct New Instructional Space              | 0              |
| Enhance/Modernize Existing Instructional Space | 0              |
| Other Costs                                    | 0              |
| <b>Totals:</b>                                 | <b>0</b>       |

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](mailto:smartschools@nysed.gov).

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

| Select the allowable expenditure type.<br>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) |

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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.

**VoIP Telephone System**

We are planning to replace our old PBX system that no longer has room for expansion with a new integrated VoIP system with a PRI digital circuit. This will make our system much more reliable should a safety concern arise. We plan on adding the VoIP system , voice mail, unified communications and IP telephones for the High School, Elementary-Middle School and Transportation Maintenance Building. The new VoIP telephone system will be interconnected over the district's fiber WAN and utilize the existing network for all equipment and telephone connections. Because we will implement this system using our existing network, no new cabling will be required to implement this system. We are looking to implement a Mitel VoIP system replacing all of our old analog phones while also repositioning the classroom telephones near the teacher's workstation for ease of access.

**Camera System Replacement**

Security cameras would be replaced at the following buildings: Johnson City High School, Johnson City Elementary-Middle School, Johnson City Transportation Maintenance Building. Cameras would be added to the stadium press box building to provide coverage for the field and surrounding areas. As part of the cameras system replacement, the recording devices will also be replaced with a networked system instead of stand-alone devices at each building. In planning for this project, we discovered some areas in each building that camera coverage was lacking, so we are planning on addressing these areas by adding additional cameras.

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        |
| 03-15-02-06-7-999-BA1 |
| 03-15-02-06-7-999-001 |

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 |
|--------------------|----------------|
| Thomas Millard, PE | 80360          |

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.

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High-Tech Security Features

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|  | Sub-Allocation |
|--|----------------|
| Capital-Intensive Security Project (Standard Review) | 0              |
| Electronic Security System                           | 599,637        |
| Entry Control System                                 | 0              |
| Approved Door Hardening Project                      | 0              |
| Other Costs  | 91,464         |
| <b>Totals:</b>                                       | <b>691,101</b> |

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](mailto:smartschools@nysed.gov).

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

| Select the allowable expenditure type.<br>Repeat to add another item under each type. | Item to be purchased  | Quantity | Cost per Item | Total Cost |
|---|---|----------|---------------|------------|
| Electronic Security System  | Voice Switch ST50A, 1U half-width. Max Capacities- 50 IP Phones, 4 Analog Exts, 8 SIP Trunk, 4 LS Trks. Made in USA. Requires ShoreTel Connect, not supported with ShoreTel 14 or older. Use Dual Switch Tray (SKU 10223) for rack mounting.(US Only)                   | 1.00     | 1,220         | 1,220      |
| Electronic Security System  | Voice Switch ST100DA, 1U half-width. Max Capacities- 100 IP Phones, 6 Analog Exts, 38 SIP Trunk, 2 LS Trks, 1 Dig. Trunk (T1 or E1). Made in USA. Requires ShoreTel Connect, not for ShoreTel 14 or older. Use Dual Switch Tray (SKU 10223) for rack mounting.(US Only) | 2.00     | 3,721         | 7,442      |
| Electronic Security System  | Voice Switch ST200, 1U half-width. Max Capacities- 200 IP Phones. Made in USA. Requires ShoreTel Connect, not supported with ShoreTel 14 or older. Use Dual Switch Tray (SKU 10223) for rack mounting. (US Only)  | 3.00     | 2,745         | 8,235      |
| Electronic Security System  | Paging Adapter PA-1. With contact closure support.(US Only)   | 4.00     | 28            | 112        |
| Electronic Security System  | Connect ONSITE Telephony license. Includes Ext+Mbx with no Connect client capability.(US Only)  | 331.00   | 97            | 32,107     |
| Electronic Security System  | Connect ONSITE Essentials license   | 116.00   | 122           | 14,152     |

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## High-Tech Security Features

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| Select the allowable expenditure type.<br>Repeat to add another item under each type. | Item to be purchased   | Quantity | Cost per Item | Total Cost |
|---|--|----------|---------------|------------|
|   | bundle. Includes Ext+Mbx, Connect desktop and mobile client, Connect Telephony for Microsoft and Connect for Chrome. Also includes Web and App dialer. (US Only)   |          |               |            |
| Electronic Security System  | Rack Mount Tray Kit for two half-width voice switches. Holds two 1U half-width ST or SG family voice switches. Combine with bracket kit SKU 10224 to wall mount SG family voice switches. Use only wall mount kit SKU 10521 with ST family voice switches. (US Only) | 5.00     | 40            | 200        |
| Electronic Security System  | RACK MOUNT EARS 10 pairs, 8 screws per pair(US Only)   | 1.00     | 61            | 61         |
| Electronic Security System  | ADDITIONAL SITE LICENSE(US Only)   | 2.00     | 302           | 604        |
| Electronic Security System  | Satellite microphones for IP Phone IP655, Qty 2(US Only)   | 11.00    | 119           | 1,309      |
| Electronic Security System  | IP Phone IP655 with anti-glare screen - requires ShoreTel 11.1 or later. (US Only)   | 11.00    | 457           | 5,027      |
| Electronic Security System  | Mitel IP Phone IP480g - Requires ST 14 or later. Replacement for SKU 10497 (US Only).  | 109.00   | 226           | 24,634     |
| Electronic Security System  | Mitel IP Phone IP485g - Requires ST 14 or later. Replacement for SKU 10498 *(US Only).   | 7.00     | 262           | 1,834      |
| Electronic Security System  | Mitel IP Phone IP420g  | 331.00   | 134           | 44,354     |
| Electronic Security System  | Connect ONSITE Standard license bundle. Includes Ext+Mbx, Connect desktop and mobile client, Connect Telephony for Microsoft and Connect for Chrome. Also includes Web and App dialer, Remote Phone and CRM client integration. (US Only)                            | 30.00    | 183           | 5,490      |
| Electronic Security System  | Connect ONSITE Virtual Mobility Router and software media kit. Can be used with Connect ONSITE and ST 14.2 and earlier systems. Ships with Connect Mobility software, ST 14.2 and earlier customers must download the ShoreTel Mobility 8.x software. (US            | 1.00     | 0             | 0          |

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## High-Tech Security Features

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| Select the allowable expenditure type.<br>Repeat to add another item under each type. | Item to be purchased  | Quantity | Cost per Item | Total Cost |
|---|---|----------|---------------|------------|
|   | Only)   |          |               |            |
| Electronic Security System  | Virtual SIP trunk license. Enable 1 SIP trunk on a ShoreTel virtual SIP trunk switch.(US Only)  | 10.00    | 51            | 510        |
| Electronic Security System  | HT+ Implementation Service , business hours. Install , Testing, Programming, User Training, 2 days post-cutover support, including 1 year warranty      | 1.00     | 53,887        | 53,887     |
| Electronic Security System  | Mitel Applications Server   | 1.00     | 3,904         | 3,904      |
| Electronic Security System  | 24C-ACC5-ENT Avigilon ACC 5 Enterprise license for up to 24 camera channels and unlimited viewing clients   | 4.00     | 6,026         | 24,104     |
| Electronic Security System  | 3.0C-H4A-BO1-IR Avigilon 3.0 Megapixel WDR, LightCatcher, 3-9mm f/1.3 P-iris lens, Integrated IR, Self-Learning Video Analytics                         | 10.00    | 932           | 9,320      |
| Electronic Security System  | 3.0C-H4A-D1-IR Avigilon 3.0 Megapixel WDR, LightCatcher, Day/Night, Indoor Dome, 3- 9mm f/1.3 P-iris lens, Integrated IR, Self-Learning Video Analytics | 90.00    | 797           | 71,730     |
| Electronic Security System  | 9W-H3-3MH-DP1 Avigilon 3x 3 MP, Pendant Multisensor Camera, 2.8-8mm f/1.3   | 17.00    | 1,688         | 28,696     |
| Electronic Security System  | H4-BO-JBOX1 Avigilon Junction box for the H4A-BO-IR HD Bullet Cameras   | 12.00    | 81            | 972        |
| Electronic Security System  | MNT-AD-CORNER Avigilon Corner mount adapter for use with MNT-PEND-WALL, H3-BO-JB or HD Bullet Camera  | 17.00    | 81            | 1,377      |
| Electronic Security System  | MNT-PEND-WALL Avigilon Compact wall bracket for use with H3PTZ-DP and H3-DP Pendant Dome Cameras  | 17.00    | 81            | 1,377      |
| Electronic Security System  | POE-INJ2-PLUS-NA Avigilon Single port Gigabit 802.3at PoE Plus injector, Class 4 - NA power cord  | 21.00    | 68            | 1,428      |
| Electronic Security System  | DAY-CAMKIT-1 Day Automation Interior IP Camera Termination Kit  | 90.00    | 28            | 2,520      |
| Electronic Security System  | DAY-CAMKIT-2 Day Automation Exterior IP Camera Termination Kit  | 33.00    | 99            | 3,267      |

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## High-Tech Security Features

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| Select the allowable expenditure type.<br>Repeat to add another item under each type. | Item to be purchased  | Quantity | Cost per Item | Total Cost |
|---|---|----------|---------------|------------|
| Electronic Security System  | NVS-4-A-H Day Automation 2U NVS (HP Chassis), (12) 6 TB HD's w/Hot Spare, 60 TB Total 55.2 TB Usable, Academic  | 4.00     | 11,064        | 44,256     |
| Electronic Security System  | WS-Video Day Automation Video WS Lite, 8 Live Streams Max (1080p), 2 - 22   | 2.00     | 2,776         | 5,552      |
| Electronic Security System  | C6-4P-WJBB-03-B-OR LANshack 3' Cat 6 Copper Stranded Patch Cable - Orange - Booted, Snagless  | 123.00   | 6             | 738        |
| Electronic Security System  | 1C-ACC5-ENT Avigilon ACC 5 Enterprise license for up to 1 camera channels and unlimited viewing clients   | 1.00     | 302           | 302        |
| Electronic Security System  | 3.0C-H4A-BO2-IR Avigilon 3.0 Megapixel WDR, LightCatcher, 9-22mm f/1.6 P-iris lens, Integrated IR, Self-Learning Video Analytics  | 2.00     | 968           | 1,936      |
| Electronic Security System  | 8C-ACC5-ENT Avigilon ACC 5 Enterprise license for up to 8 camera channels and unlimited viewing clients   | 3.00     | 2,061         | 6,183      |
| Electronic Security System  | 8L-H4PRO-B Avigilon 4K (8 MP) H.264 HD Pro with LightCatcher Technology   | 4.00     | 1,877         | 7,508      |
| Electronic Security System  | ES-HD-HWS-LG Avigilon Large Format Enclosure for HD IP Pro Cameras with 12VDC/ 24VAC Heater, Wall Bracket and Sunshield, Max combined camera and lens length is 12.8" (32.5 cm) | 4.00     | 374           | 1,496      |
| Electronic Security System  | ES-HD-IPM Avigilon Optional PoE+ power module, Powers full camera enclosure features & camera with a single Ethernet connection   | 4.00     | 212           | 848        |
| Electronic Security System  | ES-HD-MNT-PLATE Avigilon Reinforcing wall mount adapter for ES-HD-HWS-SM, ES-HD-HWS, ES-HD-CWS, ES-HD-HWS-LG & ES-HD-CWS-LG   | 4.00     | 36            | 144        |
| Electronic Security System  | LEFS183518SI Avigilon Sigma, 18-35mm, f/1.8, Auto-Iris, Vari Focal  | 4.00     | 1,494         | 5,976      |
| Electronic Security System  | VMA-RPO-4P4-NA Avigilon ACC ES HD Recorder 4-port 4TB, PRO-NA   | 1.00     | 2,399         | 2,399      |



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|---|---|----------|---------------|------------|
| Electronic Security System  | CP-PP-3 Day Automation Control Panel, for pole mount applications, 20x16x11 NEMA4, heated/cooled, 120VAC with 4 receptacles | 1.00     | 1,137         | 1,137      |
| Electronic Security System  | VMA-AS1-16P12 Avigilon HD Video Appliance Pro 16-port 12TB unit with ACC Standard 16- ch license                            | 1.00     | 7,840         | 7,840      |
| Other Costs   | Day Technical Services  | 1.00     | 64,324        | 64,324     |
| Electronic Security System  | Subcontractor Installation Services   | 1.00     | 163,449       | 163,449    |
| Other Costs   | A/E Design Fees   | 1.00     | 27,140        | 27,140     |