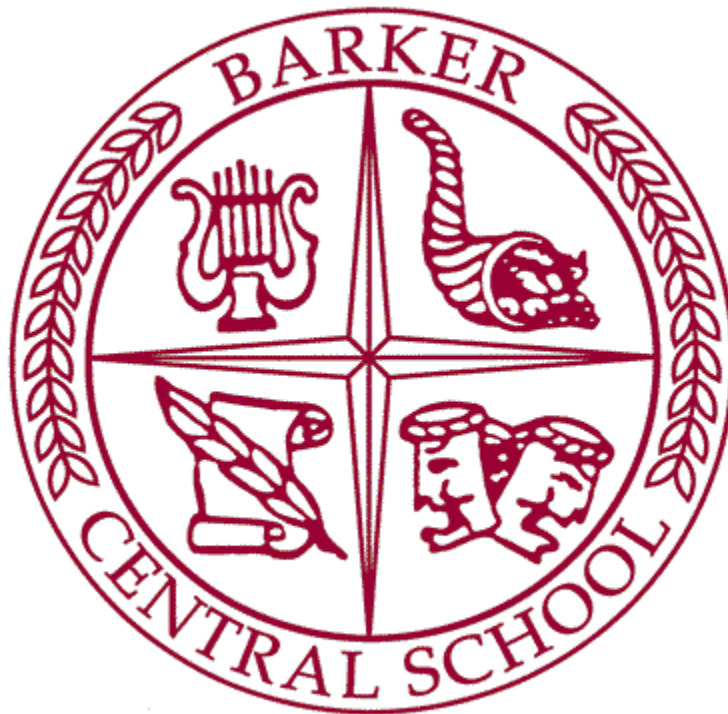


*Barker Central School District
1628 Quaker Road
Barker, New York 14012
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*Smart Schools Preliminary Investment Plan #3-1617
High-Tech Security Features*



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BARKER CENTRAL SCHOOL DISTRICT SMART SCHOOLS INVESTMENT PLAN STAKEHOLDERS

Miss Casey A’Hearn	Barker Junior/Senior High Student
Mr. Randall Atwater	Board of Education
Mr. William Bodine	District Technology
Mr. James Cantella	Barker Junior/Senior High Teacher
Mrs. Teena Clark	Barker Junior/Senior High Teacher
Mrs. Kathryn Class	Parent
Mrs. Mary Jo Clemens-Harris	Board of Education
Mr. Jeffrey Costello	District Technology
Mr. Noah DiLorenzo	Barker Junior/Senior High Student
Mrs. Mary Dudek	Barker Junior/Senior High Teacher
Mrs. Heather Ecker	Board of Education
Mrs. Deborah Farese	Director of Instructional Services
Mrs. Candice Gancasz	Board of Education
Mrs. Erin Goodlander	Parent
Mrs. Mary Grabowski	Barker Junior/Senior High Teacher
Mrs. Carol Heiligenthaler	School Business Administrator
Mr. John Hoar	Pratt Elementary School Principal
Dr. Roger J. Klatt	Superintendent of Schools
Mrs. Sharon Lamb	Barker Junior/Senior High Teacher
Mr. James Luckman	Director of Technology & Assessment
Mrs. Tracey Luckman	Pratt Elementary School Teacher
Mrs. Loriann Martell	Barker Junior/Senior High Teacher
Mr. Mark McKee	Community Member
Mr. Louis Mead	Board of Education
Mrs. Leslie Mocarski	Pratt Elementary School Teacher
Mrs. Janet Morrow	Barker School Librarian
Mr. Bradley Pritchard	Barker Junior/Senior High School Principal
Mrs. Janice Stoll	District Business Office
Mr. John Sweeney Jr.	Board of Education
Mrs. Sara Thibault	Pratt Elementary School Teacher
Mrs. Lisa Thompson	Community, Barker Public Library Director
Mrs. Virginia Voss	Board of Education

I. BANDWIDTH PRECONDITION

As a precondition to utilizing allocated Smart Schools Bond Act funds the District has confirmed that current bandwidth exceeds the Federal Communications Commission minimum speed standard of 100 Mbps per 1,000 students to sustain the increase of classroom devices. The Barker Central School District is currently equipped with a high speed 10 GB LAN and 1 GB WAN access through Erie 1 BOCES. A robust Wi-Fi network is currently installed to provide sufficient bandwidth to meet user demand and provide seamless connectivity for staff and student wireless devices.

- District student enrollment: 819
- District instructional staff: 76.5
- District non-instructional staff: 41

II. NETWORK INFRASTRUCTURE

Network infrastructure including wireless access has been upgraded over the last year and a plan to expand the wireless capacity using E-rate funds has been approved for the District by the Universal Service Administrative Company. The expansion project has been completed with the addition of fifty (50) access points installed in classrooms that doubles the wireless capacity throughout the school district. One-hundred additional access points are planned for next year with a target completion date of March 2018. While current wireless access adequately provides high levels of throughput for devices, the wireless expansion will provide improved speed and reliability for additional devices. Additional switches will be purchased to provide greater port density to accommodate additional video surveillance cameras and other devices that require physical network connectivity. Network traffic is monitored, managed and configured on a regular schedule to provide high quality transmission for all devices.

III. INSTRUCTIONAL TECHNOLOGY PLAN & SMART SCHOOLS INVESTMENT PLAN OVERVIEW

The Barker Central School District was allocated \$596,160 as part of the Smart Schools Bond Act passed in 2014 by a state wide referendum. The Smart Schools Bond Act (SSBA) supports educational technology and infrastructure to improve teaching and learning. The plan offers funding in four main areas: construct or modernize educational facilities for pre-kindergarten students, install high-speed broadband or wireless, install high-tech security features and acquire classroom technology equipment.

The New York State Education Department has provided required elements for the Smart Schools Investment Plan including demonstration of student needs, internet connectivity and network speed requirements, professional development, technical support and sustainability of projects. The Barker Central School District developed the District Instructional Technology Plan and completed the NYSED Technology Survey Tool in compliance with Section 753 of the Education Law and per Part 100.12 of the Commissioner's Regulations. The Barker Central School Instructional Technology Plan includes the blueprint for technology integration with curriculum, professional development, infrastructure improvements, hardware upgrades, technical support and methods of evaluation. The District received notification dated January 22, 2016 from the New York State Education Department that the 2015-2018 Instructional Technology Plan was approved.

Barker Central School District's vision is to prepare students to live in a sophisticated digital society. The commitment to providing access to technology tools to engage learners, support instructional practices and to deliver opportunity for digital literacy proficiency are of primary importance for teaching and learning. School buildings are equipped with classroom desktop computers, computer labs, mobile device carts and some interactive classroom equipment. Educational software and applications provide a digital learning environment interface to support instruction, curriculum and learning.

The district has consulted with the stakeholders and they have developed this preliminary Smart Schools Investment Plan and seek approval from the Board of Education. This preliminary plan will be posted to the District's website for a minimum of 30 days. The school's mailing address will be provided for those wishing to submit written comments. A public hearing will take place at a future Board of Education meeting that will address responses and receive community feedback. Notice of this public hearing will be provided through local media and the District's website for at least two weeks prior to the meeting. The stakeholders will review feedback and prepare a final plan for the Board of Education to approve. The final approved plan will be posted to the District website and submitted to the New York State Office of Facilities Planning and the New York State Education Department for review.

IV. ALLOCATED FUNDING PURCHASE PROPOSAL: HIGH-TECH SECURITY FEATURES

The District is pursuing approval for use of \$99,047 of allocated funds in the budget category identified in the following chart.

Budget Category	Barker Central School District
School Connectivity	\$0
Connectivity Projects for Communities	\$0
Classroom Technology	\$0
Pre-Kindergarten Classrooms	\$0
Replace Transportable Classrooms	\$0
High-Tech Security Features	\$99,047

CLASSROOM TECHNOLOGY

Barker Central School District is not submitting for this category in this plan.

SCHOOL CONNECTIVITY

Barker Central School District is not submitting for this category in this plan.

CONNECTIVITY PROJECTS FOR COMMUNITIES

Barker Central School District is not submitting for this category in this plan.

PRE-KINDERGARTEN CLASSROOMS

Barker Central School District is not submitting for this category in this plan.

REPLACE TRANSPORTABLE CLASSROOMS

Barker Central School District is not submitting for this category in this plan.

HIGH TECH SECURITY FEATURES

The Barker Central School District currently has a mix of analog and digital video surveillance equipment throughout certain areas of the school building. The District’s aging network video recording devices are in need of replacement to support larger data recording requirements, new video surveillance software updates, and hardware reliability for data storage and retrieval. Internal and external analog cameras located throughout the District will be replaced with updated digital cameras and connected to the video surveillance virtual local area network. Additional network switches will be acquired through the use of E-rate funds. These switches will provide port density in wiring closets to

support the addition of digital video surveillance cameras throughout the District. The surveillance devices currently installed throughout the District provide some benefit for security in the areas they are installed, but do not provide ample coverage for all locations throughout the schools. Key staff members have conducted school walk-throughs to identify locations for new camera installations to provide ample surveillance coverage throughout the schools. The careful implementation of video surveillance equipment offers a critical component for a safe school environment and tools for security when necessary. Additional licensing and installation fees are included as part of this project and are identified as separate line items for clarification of costs.

V. CONTACT WITH SUNY

The Barker Central School District has contacted Dr. Wendy Paterson, School of Education Dean at Buffalo State College as required by the Smart Schools Bond Act to request advice on innovative uses and best practices at the intersection of pedagogy and educational technology. The District has been working collaboratively with Niagara County Community College, Niagara University, University at Buffalo and Rochester Institute of Technology on blended learning and P16 college readiness initiatives.

VI. LOANING HARDWARE TO NON-PUBLIC SCHOOLS

The Smart Schools Bond Act provides that any district hardware purchases made using Smart Schools Bond Act funds shall be lent, upon request, to non-public schools in the district. All students attending non-public schools are eligible to receive loans of classroom technology equal on a per pupil basis to the per pupil amounts spent on classroom technology for public school students (up to \$250 per pupil). The District does not include any non-public schools at this time.

VII. SUSTAINABILITY PLAN

The sustainability of any technology related implementation is of paramount importance to the Barker Central School District. The District Instructional Technology Plan outlines a design for hardware replacement cycles, maintenance of supportive infrastructure and continued professional development initiatives. The District Instructional Technology Plan goals demonstrate the district's capacity and plan to support recurring costs of use that are ineligible for Smart Schools Bond Act funding. Additional support staff recommendations will be budgeted and planned for to provide proper service and maintenance for the operation of equipment, professional development, technical training, wireless

access, building maintenance and other incidental item maintenance or replacement. The district continues to investigate grant opportunities to provide funding to complement technology initiatives. The current technology staff at Barker Central School District is provided through the annual district budget and can sufficiently support and maintain the implementation of additional video surveillance equipment throughout the district. As technology resources are acquired, revisions to the Instructional Technology Plan reflect the long-term replacement strategy of purchased devices and equipment at the end of their useful life with other funding sources. Funding sources used by the District to sustain technology investments include local budget, Erie 1 BOCES installment purchase agreements, Erie 1 BOCES Common Set of Learning Objectives COSER, Erie 1 BOCES Cooperative services, NYS hardware and software funds, Orleans-Niagara BOCES Instructional Technology COSERs, Federal E-Rate funding, NYS Title IID Grant, competitive and non-competitive technology grant opportunities, capital projects, other grants and donations.

VIII. DISTRIBUTION, PREPARATION, MAINTENANCE & INVENTORY MANAGEMENT

Accurate inventory management is critical to effective administration of system and devices. District technology staff maintain a detailed inventory of all technology related items including consumable technology items. This information is accessible to key district staff for review and made available upon request to auditors or school administrators. Video surveillance equipment and video network recording servers acquired through the Smart Schools Bond Act will be included in this inventory system.

IX. HIGH-TECH SECURITY FEATURES SUB-ALLOCATION

	Sub-Allocation
Capital-Intensive Security Project (Standard Review)	\$0
Electronic Security System	\$97,047
Entry Control System	\$0
Approved Door Hardening Project	\$0
Other Costs	\$2,000
Totals:	\$99,047

X. HIGH-TECH SECURITY FEATURES EXPENDITURE TYPE

Allowable Expenditure Type	Item To Be Purchased	Qty	Cost Per Item	Total Cost
Electronic Security System	Axis P3214-V 1.3 MP	14	\$499.00	\$6,986.00
Electronic Security System	Axis P3215-V 2 MP	7	\$599.00	\$4,193.00
Electronic Security System	Axis P3367-VE	1	\$1,199.00	\$1,199.00
Electronic Security System	Axis M3027-PVE	1	\$749.00	\$749.00
Electronic Security System	Mobotix MS-D15Di-SEC 5 MP	9	\$1,148.00	\$10,332.00
Electronic Security System	Mobotix D15D Lens Unit L38	17	\$190.00	\$3,230.00
Electronic Security System	Mobotix D15D Lens Unit L25	1	\$190.00	\$190.00
Electronic Security System	Mobotix 360 Hemispheric 5 MP	3	\$798.00	\$2,394.00
Electronic Security System	Pelco Optera 180 Degree Pan	1	\$2,526.00	\$2,526.00
Electronic Security System	Pelco optera 270 Degree Pan	3	\$2,526.00	\$7,578.00
Electronic Security System	Pelco Wall Mount Arm	2	\$64.00	\$128.00
Electronic Security System	Pelco Wall Mount	2	\$75.00	\$150.00
Electronic Security System	Pelco Corner Mount	2	\$141.00	\$282.00
Electronic Security System	Pelco Pole Mount Adaptor	1	\$78.00	\$78.00
Electronic Security System	Milestone Camera Enterprise License	34	\$199.00	\$6,766.00
Electronic Security System	Milestone Camera Enterprise Support	34	\$49.00	\$1,666.00
Electronic Security System	Comnet P2P Wireless Ethernet Kit	1	\$1,400.00	\$1,400.00
Electronic Security System	Dell PowerEdge R730xd Server	2	\$20,150.00	\$40,300.00
Electronic Security System	Indoor Camera Installation	35	\$140.00	\$4,900.00
Electronic Security System	Exterior Camera Installation	5	\$180.00	\$900.00
Electronic Security System	Electrical Contractor Installation	10	\$110.00	\$1,100.00
Other Costs	Architect/Engineer Review & Approval	1	\$2000.00	\$2000.00

STATEMENT OF ASSURANCES

As Chief School Officer, I am assuring that the district will operate according to the requirements under the Smart Schools Bond Act, as detailed in the guidance documents located on the NYSED Smart Schools Bond Act website at http://www.p12.nysed.gov/mgtserv/smart_schools/

Specifically, I assure that the District will:

- Make and submit for reimbursement, expenditures consistent with the approved Smart Schools Investment Plan.
- Comply with all Education Law requirements and Commissioner Regulations under Title 8, Chapter II, Subchapter J, Part 155 for capital projects at educational facilities. See: http://www.p12.nysed.gov/facplan/Laws_Regs/8NYCRR155.htm
- Comply with all Education Law requirements and Commissioner Regulations, under Sections 3602-e and 3602-ee of Education law and Subpart 151-1 of the Commissioners Regulations for new Prekindergarten classrooms.
- Use such fiscal control and fund accounting procedures as will ensure proper disbursement of, and accounting for, funds under the Smart Schools Bond Act;
- Make reports to the State Education Department as may be necessary to enable the Department to perform its duties under the program.

The District will maintain on file and provide to the State Education Department as requested:

- A detailed accounting of expenditures, including other sources of funding used to support the District's Smart Schools Investment Plan; and
- Documentation to support any variances requested by the district, if applicable; and
- A copy of the Smart Schools Investment Plan approved by the Board of Education.