SCHOOL BOARD ACTION REPORT

DATE: December 27, 2018
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For Introduction: February 27, 2019
For Action: March 13, 2019

1.   TITLE

Purchase of Student and Staff Technology for New BEX IV Schools, BTA IV Projects, K-3 Class Size Reduction, Portables, and Enrollment Growth Capacity Classrooms opening Summer 2019

2.   PURPOSE

The purpose of this Board action is to approve the purchase of student and staff technology for the new Buildings Excellence IV (BEX IV) Capital Levy and the Buildings, Technology and Academics/Athletics IV (BTA IV) Renovation Projects, K-3 Class Size Reduction classrooms, Portables, and Enrollment Growth Capacity Classrooms opening Summer 2019.

3.   RECOMMENDED MOTION

I move that the School Board authorize the Superintendent to execute purchase orders through various vendors for a total not-to-exceed $4,300,000, plus Washington State Sales Tax, during the fiscal year 2018-19, and to take any necessary actions to implement the purchase orders.

4.   BACKGROUND INFORMATION

a. **Background** This summer, four schools' construction projects will be completed, including Lincoln High, Ingraham High, Magnolia Elementary and Queen Anne Elementary. These newly built and/or remodeled schools will need to have technology purchased to meet the adopted educational specification to provide an enriched learning experience for the students and to provide the staff with the tools that they need for teaching. These purchase orders use volume pricing available through a competitive process initiated in 2017 and 2018. Each of these schools will be outfitted with new technology as part of the standard building opening process. All classrooms will receive the appropriate teacher computer set up, a presentation station, as well as an allotment of student laptops housed in a secure cart within the classrooms in accordance with district standards and taking principal feedback and preferences into consideration. See details below.

b. **Alternatives** Do not approve this motion. This is not recommended because these new schools will be without technology for staff or student use beginning in the 2019-2020 school year. This does not align with the Strategic Plan of the district.

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c. **Research** The technology plan has a high degree of alignment with student competencies outlined in the newly-adopted Washington State K-12 Educational Technology Standards. In 2017 and 2018, equipment was selected based on instructor and student input and is in alignment with the current district standard for classroom and schools. Pricing was secured via RFP and bids through various vendors.

5.   FISCAL IMPACT/REVENUE SOURCE

Fiscal impact to this action will be the one-time cost for the purchase of technology needs for a total not-to-exceed $4,300,000.

The revenue source for this motion is BEX IV and BTA IV.

Expenditure: ☒ One-time ☐ Annual ☐ Multi-Year ☐ N/A

Revenue: ☐ One-time ☐ Annual ☐ Multi-Year ☒ N/A

Project	Funding Source	Technology	Total
Lincoln High School	BTA IV/2910	976 Dell Laptops 132 Dell Desktops 2 iPads (Library) 61 AVerVision Document Cameras 61 Bretford Charging Carts 62 Projectors 62 Front Row Sound Systems 8 Cisco Switches 175 Wireless Access Points 9 Printers Cabling	$2,500,000
Ingraham High School	BTA IV/2910	140 Dell Laptops 27 Dell Desktops 20 AVerVision Document Cameras 20 Bretford Charging Carts 20 Projectors 20 Front Row Sound Systems 2 Cisco Switches 38 Wireless Access Points 4 Printers Cabling	$678,000
Magnolia Elementary School	BTA IV/2910	293 Dell Laptops 39 Dell Desktops 92 iPads 26 AVerVision Document Cameras 28 Bretford Charging Carts 27 Projectors	$750,000

		27 Front Row Sound Systems 3 Cisco Switches 62 Wireless Access Points 8 Printers Cabling	
Queen Anne Elementary School	BEX IV/2800	70 Dell Laptops 12 Dell Desktops 40 iPads 12 AVerVision Document Cameras 8 Bretford Charging Carts 12 Projectors 1 Cisco Switches 18 Wireless Access Points Cabling	$136,000
Capacity and Portable Classrooms	BEX IV/2800	60 Dell Laptops 10 Dell Desktops 10 AVerVision Document Cameras 10 Projectors 10 Front Row Sound Systems 2 Cisco Switches 10 Wireless Access Points Cabling	$200,000

Lincoln - The technology infrastructure will include (8) network switches in (4) MDF/IDF, (175) wireless access points, in addition to classroom technology for (59) general education classrooms, (1) computer lab, (1) gym, (1) library, (30) offices, and (14) large group/conference rooms. Standard classroom technology provisioning in classrooms and computer labs will include a mix of iPads and laptops depending on student need and classroom type, one charging cart, docking stations and monitors, keyboard/mouse, a projector, presentation station, teacher laptop, and Front Row Sound System. Libraries will include a projector, laptop and/or iPad, one charging cart, Front Row Sound System and a printer. Offices and staff lounges will include a laptop or iPad, monitors, keyboard/mouse and a printer. Conference rooms will include a display with Miracast.

Ingraham – The technology infrastructure will include (2) network switches in (1) IDF, (38) wireless access points, in addition to classroom technology for (18) general education classrooms, (2) science labs, (1) maker space, (5) admin offices, and (2) learning commons. Standard classroom technology provisioning will include a mix of iPads and laptops depending on student need and classroom type, one charging cart, docking stations and monitors, keyboard/mouse, a projector, presentation station, and teacher laptop. Libraries will include a projector, laptop and/or iPad, one charging cart, student devices and a printer. Offices and staff lounges will include a laptop or iPad, monitors, keyboard/mouse and printer. Conference rooms will include a display with Miracast.

Magnolia - The technology infrastructure will include (3) network switches in (3) MDF/IDF, (62) wireless access points, in addition to classroom technology for (21) general education classrooms, (2) SPED classrooms, (1) library, (1) gym, (8) admin offices, and (5) learning commons. Standard classroom technology provisioning will include a mix of iPads and laptops

depending on student need and classroom type, one charging cart, docking stations and monitors, keyboard/mouse, a projector, presentation station, teacher laptop, Front Row Sound System. Libraries will include a projector, laptop and/or iPad, one charging cart, Front Row Sound System and a printer. Offices and staff lounges will include a laptop or iPad, monitors, keyboard/mouse and printer. Conference rooms will include a display with Miracast.

Queen Anne - The technology infrastructure will include (1) network switch in (1) IDF, (18) wireless access points, in addition to classroom technology for (4) general education classrooms, (4) kindergarten classrooms, (1) gym, and (1) conference room. Standard classroom technology provisioning in classrooms and computer labs will include a mix of iPads and laptops depending on student need and classroom type, one charging cart, docking stations and monitors, keyboard/mouse, a projector, presentation station, and teacher laptop. Libraries will include a projector, laptop and/or iPad, one charging cart, student devices, and a printer. Offices and staff lounges will include a laptop or iPad, monitors, keyboard/mouse and printer. Conference rooms will include a display with Miracast.

Capacity Management and Portables - The technology infrastructure will include (2) network switches in (2) IDF, (10) wireless access points, in addition to end user provisioning for (8) Gen Ed classrooms, and (2) portables. Standard classroom technology provisioning will include (16) laptops per classroom and (1) per teacher with accompanying docking stations, monitors, and mouse, and (1) charging cart. Each classroom includes (1) projector, (1) presentation station consisting of (1) desktop computer and document camera and Front Row Sound System. This budget, unlike the construction projects, includes provisioning and installation of all IDF cabinets, network cabling, faceplates/jacks, and testing for all capacity classrooms and portables.

6.   COMMUNITY ENGAGEMENT

With guidance from the district's Community Engagement tool, this action was determined to merit the following tier of community engagement:

☐ Not applicable

☐ Tier 1: Inform

☒ Tier 2: Consult/Involve

☐ Tier 3: Collaborate

In February 2013, 72% of Seattle voters approved the BEX IV Capital levy. This levy was the culmination of an eighteen-month long process analyzing the facilities needs of the district and supports the district's long-range plans to upgrade and renovate aging school facilities. The process included countless hours of planning, coordinating efforts throughout the district, community engagement and feedback, extensive Seattle School Board guidance and input that lead to a unanimous Seattle School Board vote in November 2012 that approved the BEX IV projects list.

Furthermore, this proposed purchase was discussed with the principals at the new/updated schools and at the January 14, 2019 Information Technology Advisory Committee (ITAC)

meeting with the committee getting the chance to review the report and offer feedback. As a result, additional information was added to include the types of technology being provided to each school and the quantities of said technology across different classrooms. Additionally, the district's community engagement tool kit was applied to this proposed purchase of staff and student technology for new BEX IV schools and BTA IV projects with Tier 2: Consult and Involve being the most applicable level of engagement identified.

7.   EQUITY ANALYSIS

This motion was not put through the process of an equity analysis. The selection of projects in the BTA IV and BTA IV programs were designed to provide equitable access to technology to all schools across the city. All schools will receive the same technology and quantities in accordance with district standards. All students and staff deserve to have access to equipment that supports an equitable learning experience.

8.   STUDENT BENEFIT

Among the many benefits to students that access to technology will provide, three benefits stand out. Given regular and consistent access to technology, students will be able to:
- Leverage current digitally-based learning tools
- Meet standards set forth by Washington State Superintendent of Public Instruction (OSPI) as well as the International Society for Technology in Education (ISTE)
- Hone technology-based fluency resulting in graduating students that are college, career, and community ready

Teachers will be able to:
- Use present-day instructional strategies
- Access SPS-required systems
- Access data for Multi-Tiered System of Supports (MTSS)
- Be productive with resources like Office365 and online resources

In addition to improving students' learning, technology is specifically called in standards set forth by the state's adopted Education Technology Standards:

> The Washington State Legislature Revised Code of Washington (RCW 28A.650) includes a technology outline and recognizes that up-to-date tools will help students learn. The State of Washington Office of The Superintendent of Public Instruction (OSPI) guidelines include students using technology within all content areas to collaborate, communicate, generate innovative ideas, investigate, and solve problems; as well as being effective digital citizens by demonstrating a clear understanding of technology systems and operations and practice safe, legal, and ethical behavior.

The International Society for Technology in Education (ISTE) outlines seven core standards, documented below, that have been included in the development of Washington State standards:

1. Empowered Learner - Students leverage technology to take an active role in choosing, achieving and demonstrating competency in their learning goals, informed by the learning sciences.

2. Digital Citizen - Students recognize the rights, responsibilities and opportunities of living, learning and working in an interconnected digital world, and they act and model in ways that are safe, legal and ethical.
3. Knowledge Constructor - Students critically curate a variety of resources using digital tools to construct knowledge, produce creative artifacts and make meaningful learning experiences for themselves and others.
4. Innovative Designer - Students use a variety of technologies within a design process to identify and solve problems by creating new, useful or imaginative solutions.
5. Computational Thinker - Students develop and employ strategies for understanding and solving problems in ways that leverage the power of technological methods to develop and test solutions.
6. Creative Communicator - Students communicate clearly and express themselves creatively for a variety of purposes using the platforms, tools, styles, formats and digital media appropriate to their goals.
7. Global Collaborator - Students use digital tools to broaden their perspectives and enrich their learning by collaborating with others and working effectively in teams locally and globally.

9. WHY BOARD ACTION IS NECESSARY

☒ Amount of contract initial value or contract amendment exceeds $250,000 (Policy No. 6220)

☐ Amount of grant exceeds $250,000 in a single fiscal year (Policy No. 6114)

☐ Adopting, amending, or repealing a Board policy

☐ Formally accepting the completion of a public works project and closing out the contract

☐ Legal requirement for the School Board to take action on this matter

☐ Board Policy No. _____, [TITLE], provides the Board shall approve this item

☐ Other: _____

10. POLICY IMPLICATION

Per Board Policy No. 6220, Procurement, any contract over $250,000 must be brought before the Board for approval.

11. BOARD COMMITTEE RECOMMENDATION

This motion was discussed at the Operations Committee meeting on February 7, 2019. The Committee reviewed the motion and moved it forward to the full board for approval.

12. TIMELINE FOR IMPLEMENTATION

Upon Board approval of this request, purchase orders will be executed to begin the procurement

process. The timeline averages six to eight from procurement to classroom readiness. This includes processing from the vendor as well as delivery, and then asset tagging at the district warehouse, installation in the school buildings and appropriate configuration by the DoTS staff. These classrooms will be completed and ready for use for the start of school in September 2019.

13.   **<u>ATTACHMENTS</u>**

- Not Applicable