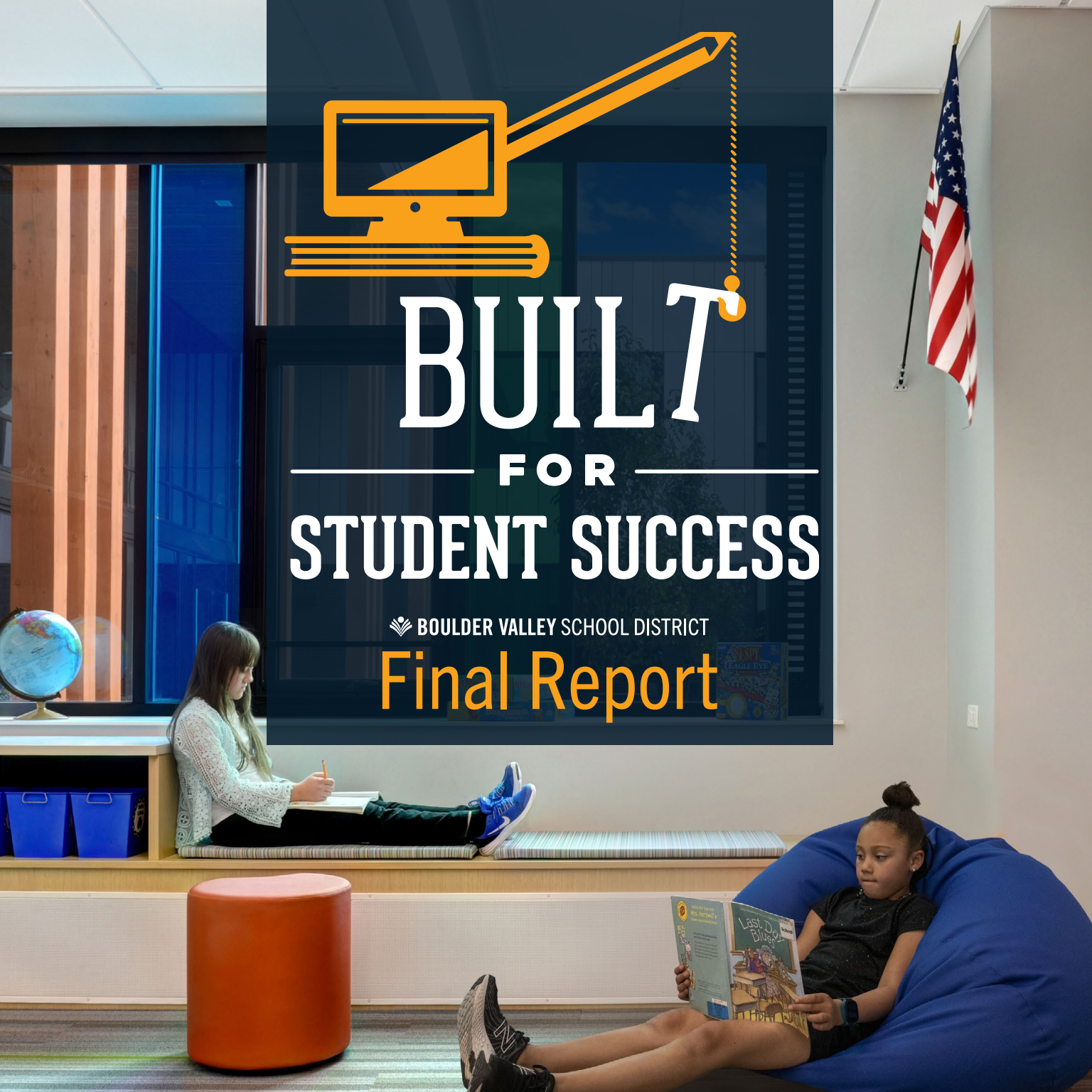


BUILT FOR STUDENT SUCCESS

BOULDER VALLEY SCHOOL DISTRICT

Final Report

To the Board of Education and the BVSD Community,

We are honored to share this final report of Boulder Valley School District's 2014 Bond Program which describes the investment of community funds to improve learning environments throughout Boulder Valley School District.

The Boulder Valley Board of Education created the Citizens' Bond Oversight Committee to provide a high level of accountability and transparency in the implementation of the District's Educational Facilities Master Plan. Over the past seven years, this committee has offered independent review of the projects in the Bond Program. This volunteer group included school administrators, parents, and community members representing the diversity of BVSD stakeholders from each municipality in the District. Through regular financial and project updates, the group tracked progress and monitored budgets. As part of its responsibility, the group reviewed and made recommendations for spending an additional $81 million in premium funds earned through bond sales. In this role, the group is proud to have supported projects such as additional air conditioning; a new building for Halcyon; and a larger cafeteria at University Hill Elementary, among others.

Throughout the program, the committee toured many of the projects and got to see first hand how this work has transformed learning environments. These visits illustrate how each student, teacher, and staff member in the District has been touched in positive ways by this work.

It is with great pleasure that we celebrate with you the success of this program.

Sincerely,

Citizens' Bond Oversight Committee Members

"The BVSD community should feel proud about how this money was spent and what it reflects about the community's values."

– Citizens' Bond Oversight Committee

Executive Summary

In Boulder Valley, we are fortunate to have a community that understands learning environments matter and is willing to invest in that idea with their tax dollars. In 2014, BVSD voters generously passed the largest school bond in Colorado history at the time. Since then, the District has invested those dollars to improve learning environments at every school through the Building for Student Success program.

BVSD takes seriously our responsibility to taxpayers to take care of the buildings they have provided. The majority of work in the Bond Program was directed at ensuring building longevity by providing needed repair and replacement of systems and equipment. BVSD's buildings will continue to keep students safe, warm, and dry for decades, but thanks to the generosity of our community, they will do much more than that.

Future Focused

By nature, education is a future-focused endeavor. Our job as educators is to prepare students for their futures--a future they create for themselves and for all of us. Taxpayer investments have created innovative learning environments intentionally designed to reflect the modern world BVSD students will transition into, and to cultivate the 21st Century skills they will need to meet the challenges of their future.

Climate change has raised the stakes for making our operations more sustainable and teaching our students to live sustainable lives. Thanks to taxpayer investments, District buildings are more water and energy-efficient and ready for renewable energy; new infrastructure supports the electrification of transportation; and building materials are recycled, recyclable, and durable. Most importantly, BVSD is teaching sustainability by example.

Health & Safety

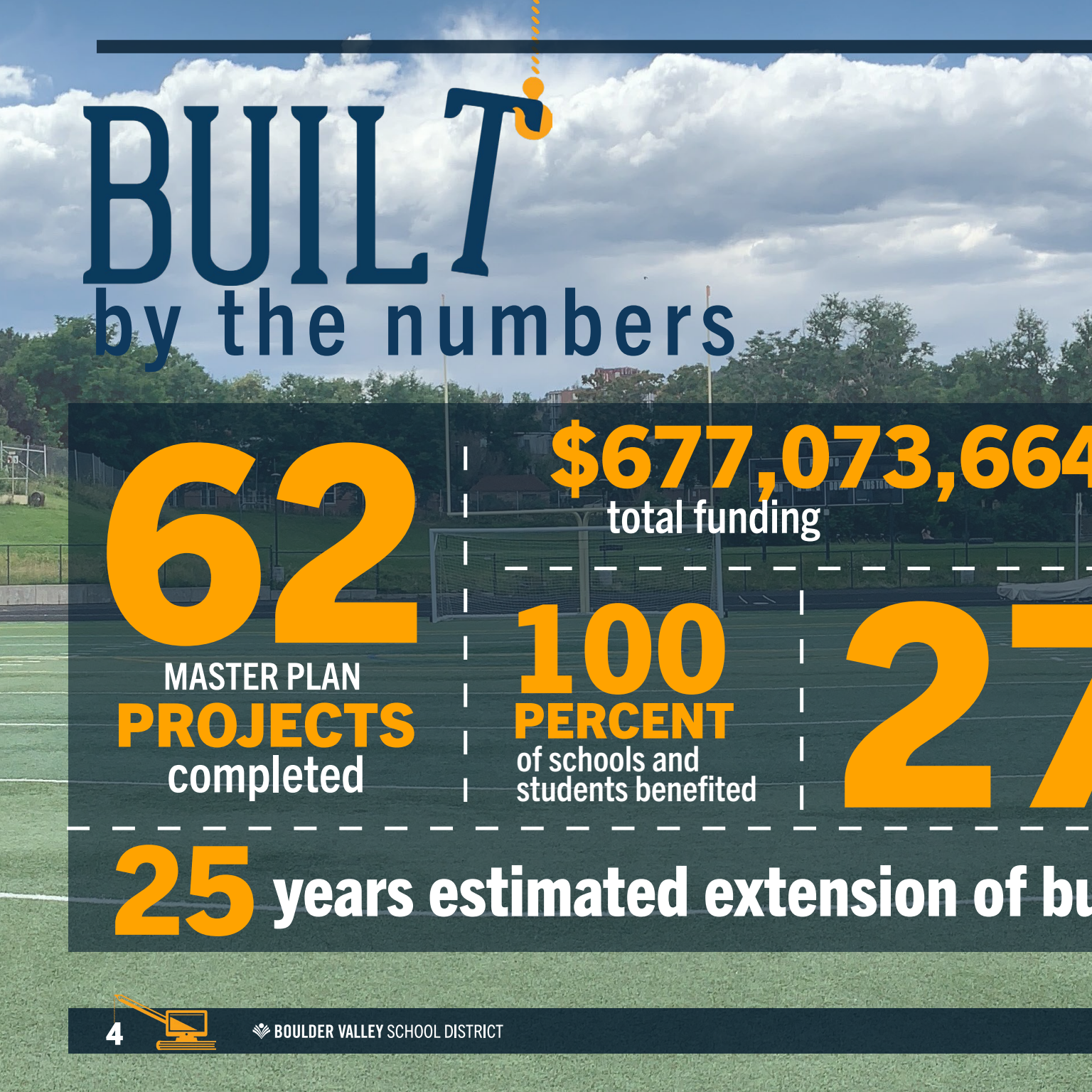
Through the Bond Program, our community has invested in student health and safety. Projects have boosted our ability to provide fresh, scratch-cooked food; improved indoor air quality; and provided more access to exercise. Security improvements have made our buildings safer and helped students and staff feel safer.

Our youngest learners have inspired preschool spaces designed just for them. Students who need a different kind of learning environment, whether it is space designed to be sensitive to trauma experiences or a non-traditional school program, have new spaces suited to their needs.

A Community that Cares

We consistently hear from students and staff about how much learning environments matter in their daily experience. They appreciate the new finishes, upgraded lighting, innovative spaces, modern furniture and equipment, and good air quality. Beyond the physical space, students and staff say it means so much to know their community cares enough to provide these spaces for them. None of this would have been possible without the financial support of our community.

With it, we are truly All Together for All Students.



BUILT by the numbers

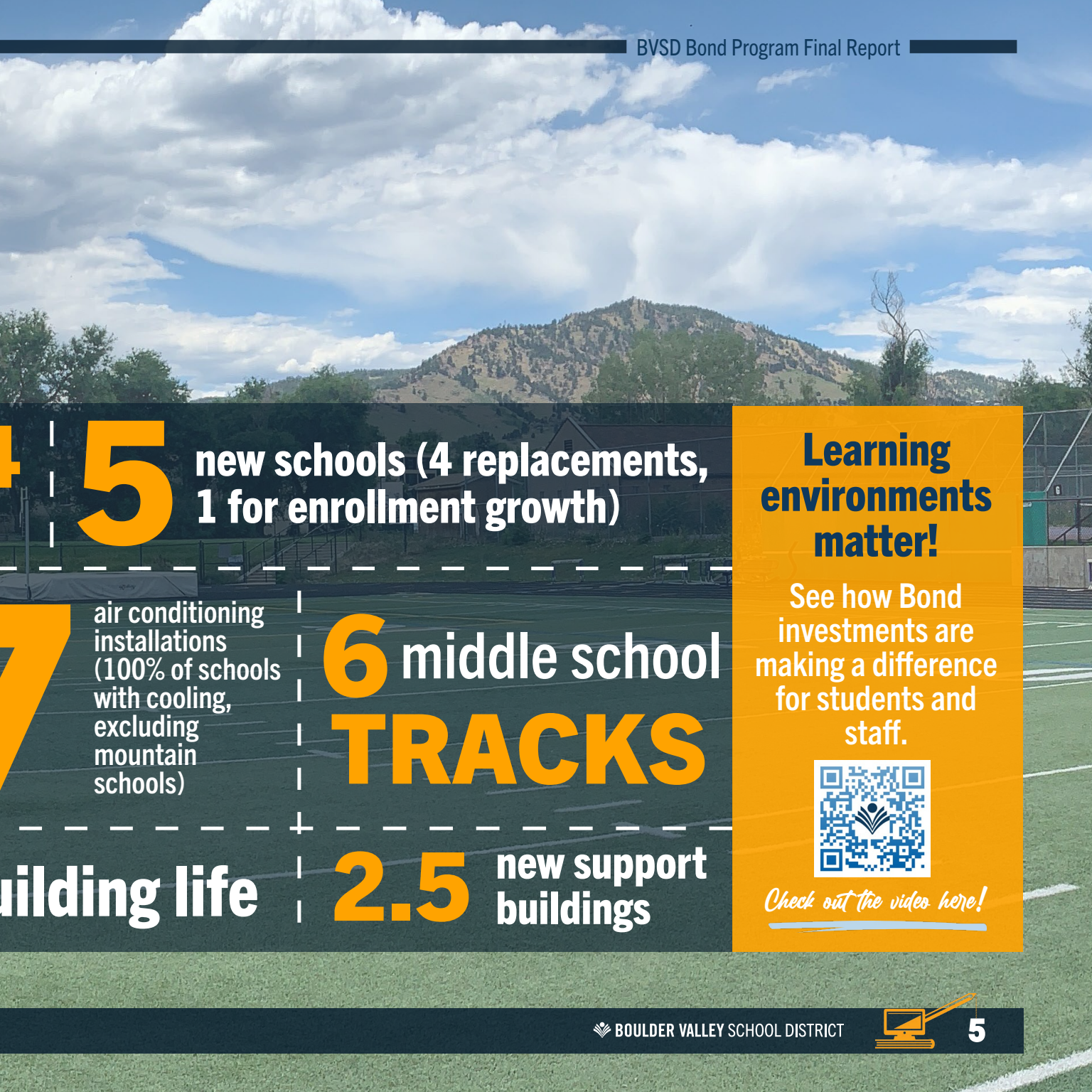
62
MASTER PLAN
PROJECTS
completed

$677,073,664
total funding

100
PERCENT
of schools and
students benefited

27

25 years estimated extension of bu



4

5 new schools (4 replacements, 1 for enrollment growth)

7

air conditioning installations (100% of schools with cooling, excluding mountain schools)

6 middle school **TRACKS**

uilding life

2.5 new support buildings

Learning environments matter!

See how Bond investments are making a difference for students and staff.

Check out the video here!

Community Involvement

Building with our community

Community input and oversight was a consistent theme throughout the program. This involvement ensured the Educational Facilities Master Plan and the implementation of the projects within it met the needs and expectations of users and taxpayers.

The Board-appointed Capital Improvement Planning Committee (CIPC) represented the demographics of BVSD's community and worked with staff over a 12-month period to identify and and prioritize capital improvement needs and make final recommendations to the board in the Educational Facilities Master Plan. The plan detailed improvement projects for each school and facility, and reflected public input collected through Community Values Meetings, an online survey, and telephone polling. Once voters approved the bond measure, several members of the committee continued to stay involved and participated on the Board-appointed Citizens' Bond Oversight Committee (CBOC). The committee met approximately every other month and, along with staff, presented quarterly reports to the Board. The committee provided independent review of the projects in the Bond Program and reviewed and recommended any significant changes in budget or scope. The group also provided recommendations to the Board for expenditures of Bond premium funds.

Community voice was also included at the school level through design advisory teams (DAT) that included the principal, teachers, staff members, parents, and sometimes community members and students. BVSD is grateful for the help of these groups, who worked with the project team to help them understand the needs and perspectives of the building's primary users. In cases where project scopes shifted from the master plan, community stakeholders provided input regarding proposed changes. For example, the Special Education Advisory Committee reviewed and provided feedback on the proposal to replace the Halcyon building, and the New Vista Working Group recommended changing the scope for that project to a complete rebuild.

Students and staff are benefitting from allocations recommended by the Citizens' Bond Oversight Committee to address critical needs and avoid reducing projects because of inflation.

Learn more here!

Design Advisory Teams helped architects understand the needs & perspectives of the building's primary users.

Innovation in Action

Aspen Creek PK-8

Innovation in action

The Educational Innovation component of the Building for Student Success program is a great example of what can be achieved when a community supports their educators with the financial resources to do more with more.

Bond funding coupled with the roadmap of BVSD's Strategic Plan, created an incredible opportunity to rethink the design of school buildings and our approach to instruction. A portion of each school's Bond project budget was allocated for making renovations to learning environments to support innovative approaches to teaching and learning. In addition, the reconstruction of three schools and the new construction of Meadowlark School created the opportunity to build innovative learning environments from the ground up. The goal was to create spaces that will allow teachers to personalize learning for students, use multiple modes of delivering instruction, and facilitate learning to fully engage students in their education.

Alicia Sanchez International

Learning fosters a culture of curiosity and risk-taking

New Innovation labs (left) are spaces where students can get hands-on and be creative to problem solve and take appropriate risks. Libraries (right) have been reimagined as places where students can explore their curiosity in a variety of ways.

Emerald Elementary

Rethinking learning environments

To guide the Innovation work, District leaders, principals and teacher leaders together developed Innovation Guiding Principles (IGPs). These ideas aim to create innovative learning experiences along with innovative learning environments. This is not a change in the curriculum (students will still be expected to master District content standards), but rather a shift in how and where teachers facilitate learning.

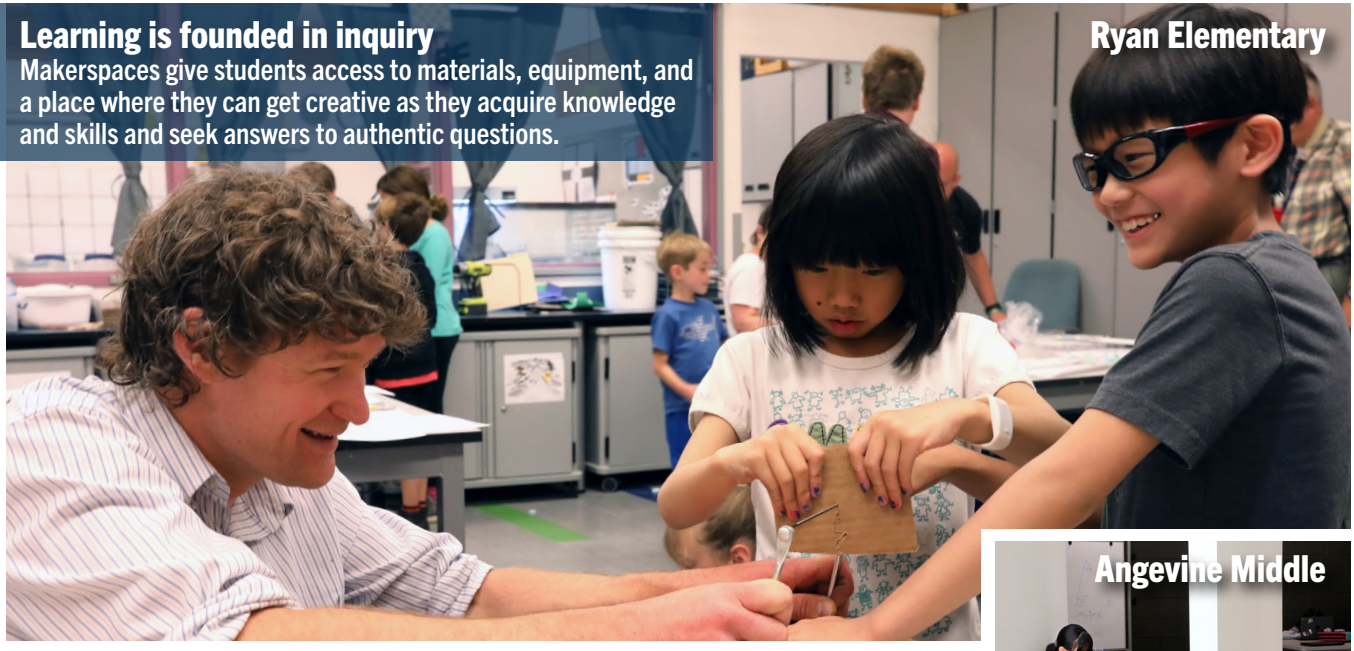
Learn more here!

Leading the way

BVSD has embraced the opportunity to share this work locally and globally. The district has hosted and presented at numerous conferences to share our experiences and support shifting instructional and learning environment paradigms. Numerous educators and architects have visited BVSD's new schools and renovation projects. Including funding for Innovation projects in school district bond programs has become a regional trend. BVSD's work is featured in the book, "Learning by Design: Live/Play/Engage/Create" written by architect Prakash Nair, previously of Fielding Nair International.

Learning is founded in inquiry

Makerspaces give students access to materials, equipment, and a place where they can get creative as they acquire knowledge and skills and seek answers to authentic questions.



Learning is personalized and learner-led

New learning environments include a variety of spaces that let students choose what work well for them, allowing them to exercise self-management and develop ownership of their own learning. Small, quiet places provide space for reflection to internalize learning and make it concrete.

Innovative spaces for all students

One of the most impactful ways Bond dollars were used to support student learning was through the Innovation projects at each school. Each school received an allocation of funds to create innovative learning environments: elementary schools received $200,000, middle schools received $400,000, K-8 schools received $600,000, and high schools received $800,000. Using BVSD's Innovation Guiding Principles, each school created an Innovation Project Plan with a vision for what teaching and learning could look like, and the kind of space that would encourage and support it. Project plans included learning objectives to connect the use of the space to how it will impact students. Teachers were supported with professional learning during the first year after construction. The projects included areas such as makerspaces, enhanced libraries, video studios, outdoor "classrooms," furniture makeovers, and collaboration labs.

Mastery is demonstrated in multiple ways
Maker spaces stocked with technology such as 3D printers give students tools to develop skills and demonstrate what they know in ways others can see.

Learning is a social process
Lightweight, moveable furniture with writeable surfaces let students and teachers reconfigure spaces as needed to collaborate and make their learning visible.

Blueprint schools show what is possible

Five school projects became blueprints for educational innovation in the school district: three elementary school rebuilds (Creekside, Douglass, Emerald), the new Meadowlark School in Erie serving grades PK-8, and a major remodel of Centaurus High School. These projects are models of 21st Century approaches to teaching and learning as well as innovative learning environments that bring to life BVSD's Strategic Plan and the Innovation Guiding Principles. They showcase what's possible when you can design a truly student-centered environment; the facilities put the learning, comfort, and needs of students first by design.

The new buildings are designed around the concept of Learning Communities, with multiple grades sharing space, and teacher and student collaboration at the heart of the approach. This is a big shift from traditionally designed "egg carton" floorplans with hallways lined with uniformly-sized individual classrooms. This classic school environment was built for teacher-directed, lecture-style learning. Re-thinking school design to maximize learning space has empowered BVSD to support different modes of learning.

There are spaces that work well for learning from an expert ("traditional" lecture-style teaching), collaborative spaces where students can work in small groups to learn from each other, presentation spaces, teacher collaboration rooms, spaces that allow for individuals to work and reflect quietly, and gathering spaces for the larger community. The goal is to have a learning environment that can be agile and multi-functional depending on the learning needs of the students. Innovative learning environments remove the barriers of traditionally designed buildings and expand options for how learning happens.

Learning is powerful when students create solutions to authentic challenges that impact their local, national, or global community.

When learners apply their knowledge and skills to challenges that impact the world they live in, they are more likely to be interested in what they are learning. Learning within authentic contexts provides students with a greater sense of purpose to their learning.

Meadowlark School

Creekside Elementary

The Innovation blueprint schools showcase what's possible when you can design a truly student-centered environment; the facilities put the learning, comfort, and needs of students first by design.

Douglass Elementary

Emerald Elementary

Meadowlark School

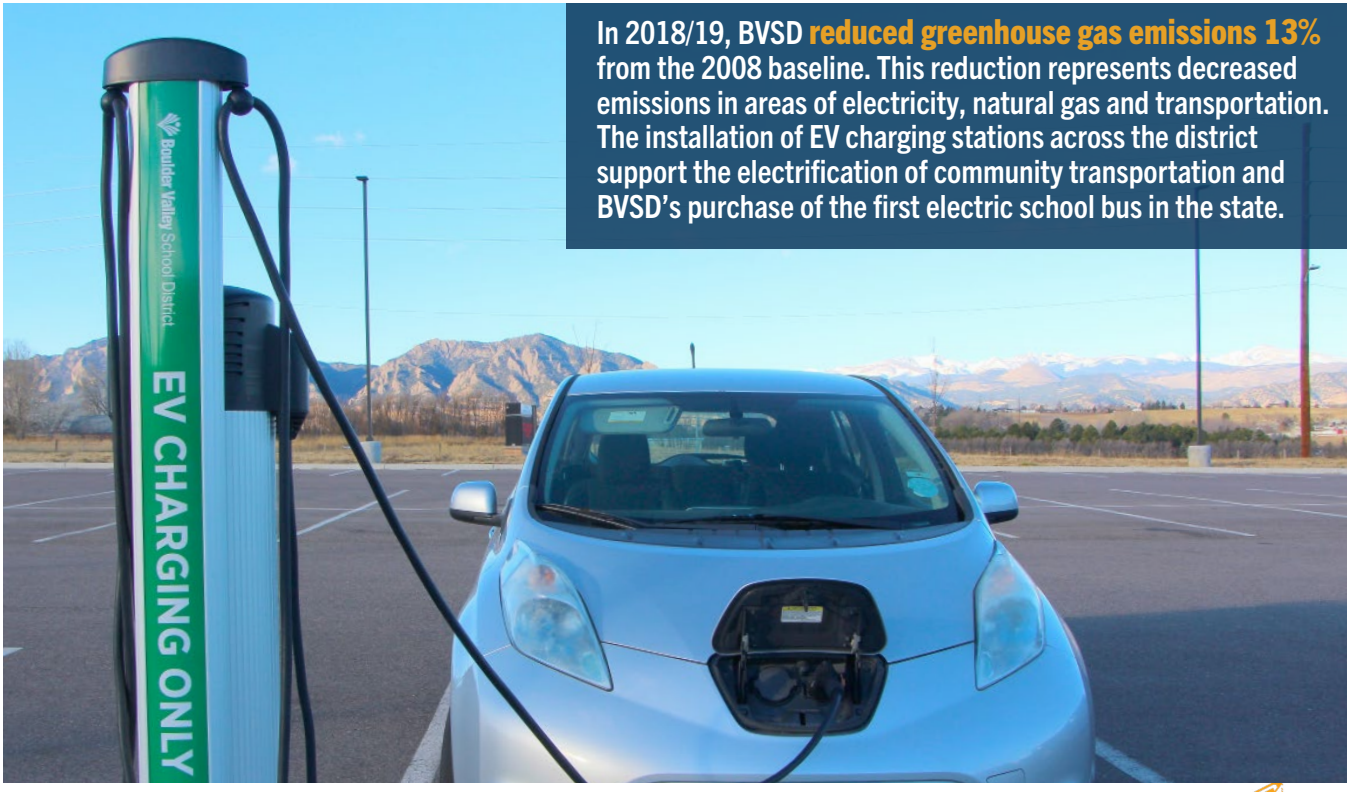
Centaurus High

Built Green

Going further on sustainability

BVSD has made an organizational commitment to sustainability through policy and the Sustainability Management System (SMS). Goals set in the SMS establish measurable benchmarks for efforts to protect student and staff health; conserve energy, water, and other natural resources; reduce waste and pollution; and address climate change. BVSD made significant strides toward these goals with the Building for Student Success Program, which further incorporated sustainability into the design and operation of BVSD school buildings.

Sustainability was integrated into the program from the beginning of the planning process. Ambitious goals for waste diversion, indoor air quality, and water and energy reduction were foundational in updating the Green Building Guiding Principles and technical specifications, which served as guiding documents for project teams. Sustainability goals were tracked throughout the projects. The principles require that new buildings meet 2009 LEED standards, although the district will not pursue certification. In addition, where possible, all projects strove to use materials that "are durable, repairable, and reusable or recyclable; limit toxins and indoor air pollutants; are made with high post-consumer recycled content; and are resource and energy efficient in their manufacturing, use and disposal."



In 2018/19, BVSD **reduced greenhouse gas emissions 13%** from the 2008 baseline. This reduction represents decreased emissions in areas of electricity, natural gas and transportation. The installation of EV charging stations across the district support the electrification of community transportation and BVSD's purchase of the first electric school bus in the state.

BUILT Green by the numbers

New buildings were designed to meet **LEED GOLD** requirements and prioritized indoor environmental quality.

55 electric vehicle charging stations were added at 50 sites with additional support of $349,800 in grant funding.

10% reduction in water use from 2008, despite building area and student population increasing over the same time period.

new parking for **581 bikes**

The new culinary center will allow the district to **source more food locally,** reducing emissions from shipping.

13% reduction in greenhouse gas emissions

Many projects created or enhanced **outdoor learning** spaces, or provided additional shade structures. These features have been of even greater value during the Coronavirus pandemic.

>252 tons of furniture and electronics were recycled, as well as school supplies and books.

51% construction waste diversion

Just over half the waste from construction was recycled or otherwise diverted from landfills - well above state and industry standards.

Prioritizing indoor air quality

The Building for Student Success program touched nearly every building in the District, creating the opportunity to comprehensively impact indoor air quality (IAQ) across the District. BVSD's Green Building Guiding Principles prioritized protecting IAQ, both during construction and in finished projects. The guidelines called for using low VOC products such as paints, carpet, and furniture, along with other measures to reduce the introduction of harmful substances into the indoor air.

Another significant way BVSD has been able to impact IAQ is through renovating HVAC systems and commissioning all projects, which ensures that all systems are operating as they should. This work included installing centralized controls to program and monitor ventilation centrally to ensure proper air flow. This capability was especially valuable during the Coronavirus pandemic.

Hand-in-hand with this work, in partnership with the University of Tulsa and the University of Colorado, BVSD launched an indoor air quality initiative to collect IAQ data in schools. This data was used to understand current conditions and shape plans for renovations and operations as well as occupant behavior. The data will also help BVSD understand the impact of Bond renovations on IAQ.

"BVSD is unique in having such a comprehensive approach to improving indoor air quality. Through our efforts, the District will gain critical insight into the "return on investment" to the classroom environment."

– Dr. Richard Shaughnessy, University of Tulsa Indoor Air Program

Moving toward zero energy

BVSD's 2013 Sustainable Energy Plan set ambitious goals for reducing energy use and controlling costs long term. These goals set the stage for prioritizing energy efficiency in the 2014 Educational Facilities Master Plan. Community support of the Bond Program enabled the district to take significant steps toward the long-term goal of being a zero-net energy district by 2050. How the District builds and operates buildings has a tremendous impact on our carbon footprint. Building them right matters and will make a difference for the long-term health of our planet and our students.

With BVSD's ambitious energy goals in their sights, project designers were pushed to use more efficient equipment and strategies which has yielded impressive results. The large scale of this work created the opportunity to use integrated design along with commissioning for larger projects. The integrated design approach encourages collaboration among design professionals from the beginning of the project. This team uses a whole building analysis to consider a building's energy use holistically in all aspects of the building's design. The commissioning process confirms mechanical systems are operating as designed by reviewing programming and ensuring equipment is calibrated correctly. All new buildings are now designed to be solar ready, and Bear Creek is ready for a wind turbine. Most existing buildings received much-needed repair and upgrades for HVAC that improved energy efficiency as well as performance, making buildings more comfortable. Other energy efficiency upgrades included LED lighting, particularly gyms; new, more efficient boilers; replacing windows; replacing roofs and upgrading insulaiton; and installing pipe insulation.

Meadowlark School is one of the most energy efficient buildings in the district thanks to innovative technologies such as the in-floor radiant heating and cooling system. This system was also used at the new Transportation Center and is more comfortable for occupants because temperature is controlled on the floor where people are working rather than in the air above them.

Energy efficiency highlights

24%

As of July 2021, overall **building efficiency improved** an average of **24%** pre-Bond to post-Bond.

48%

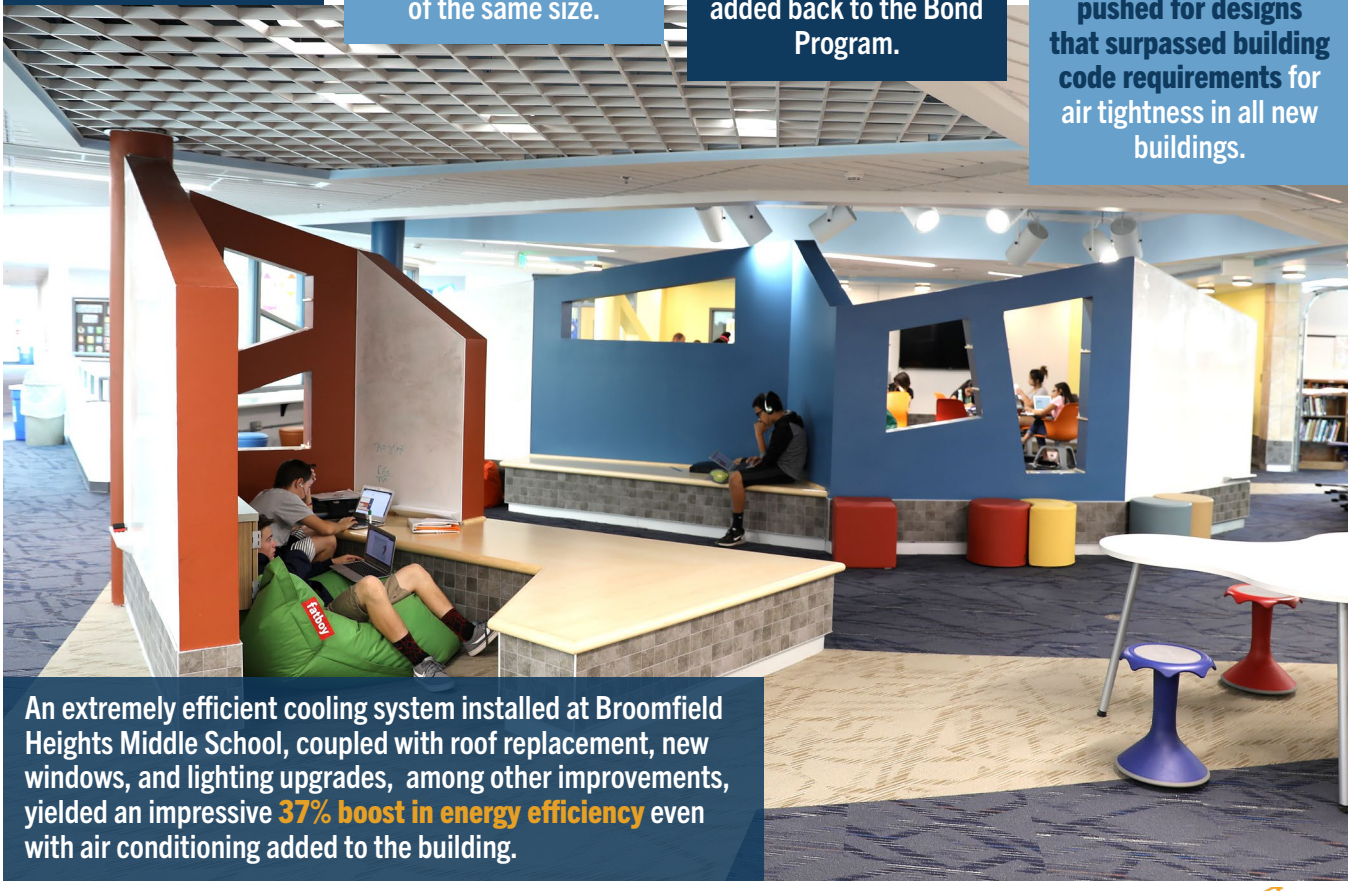
New buildings are on **average 48% more efficient** than the buildings they replaced or a code-compliant building of the same size.

$878K

The Bond Program's efficient design work has garnered **over $878,000 in rebates from Xcel** Energy. All rebates were added back to the Bond Program.

30%

Because the building envelope accounts for about 30% of energy used and is key to comfort and natural light, **BVSD pushed for designs that surpassed building code requirements** for air tightness in all new buildings.



An extremely efficient cooling system installed at Broomfield Heights Middle School, coupled with roof replacement, new windows, and lighting upgrades, among other improvements, yielded an impressive **37% boost in energy efficiency** even with air conditioning added to the building.

Fulfilling Promises

Improving the physical condition of buildings

Thanks to the generosity of BVSD taxpayers, improvements were made in every single building in the district, benefitting all students and staff. Nearly 50% of the master plan was targeted at providing critical repair and replacement of building materials, equipment, and systems. This work has renewed BVSD buildings and reduced deferred maintenance needs for materials, equipment and systems at the end of their lifecycles from 73% to 6% in terms of overall square footage.

Replacing major building components such as roofs, HVAC, electrical and plumbing extends the useful life of buildings by decades.

New finishes such as carpet, flooring, paint, and ceilings, along with new lighting and furniture, go a long way to give a boost to the look and feel of the learning environments.

Expanding opportunities for our youngest learners

BVSD believes that strong educational opportunities in the early years set children on a path to academic success. Through the Bond Program, BVSD expanded our capacity to provide a strong academic start for students across the district. New kindergarten classrooms and playgrounds were built to accommodate full-day kindergarten programs. When full-day kindergarten funding became a reality in Colorado, BVSD was prepared and ready to welcome students to fully-equipped learning spaces designed for their needs. Similarly, BVSD added and renovated preschool rooms and playgrounds throughout the district to give more Boulder Valley children access to high-quality preschool experiences. All of these learning spaces are filled with engaging, inspiring materials that spark curiosity and the thrill of discovery in our youngest learners.

"The new spaces support our play-based learning philosophy, giving all students an environment better suited toward success."

– ECE Executive Director Kimberly Bloemen

Wellness in action – physical activity for all

It's no secret that exercise is good for kids' developing minds and bodies. Projects at all school levels aimed to ensure that all BVSD students have access to the benefits of daily physical activity. Elementary playgrounds across the district were renovated to increase ADA accessibility and provide more opportunities for different kinds of play. At the secondary level, artificial fields and tracks were installed at all middle schools, which will provide more playing time for students while reducing maintenance and water and herbicide use associated with natural grass. New gyms were constructed at two middle schools, and major renovations were completed in gyms and athletic facilities at several other middle and high schools.

Special spaces for special programs

The Halcyon School houses the district's day-treatment program which, gives students access to their education while also providing therapeutic behavioral interventions and strategies. The Bond Program replaced most of a decades-old structure with a nearly 15,000-square-foot new building that was intentionally designed with trauma-informed features to meet the needs of the program and create a safe, comfortable space for students. The new building honors the historical architecture of the original building and neighborhood, and features separate elementary and secondary wings along with administrative spaces, a cafeteria/multi-purpose room, small group rooms, and outdoor recreation spaces. Special Education rooms in many other BVSD schools were also renovated in a variety of ways to improve functionality and comfort for the students and staff that use them.

"This building means so much to our students and our parents. It says that in this district, everyone matters."

– Halcyon Principal Matt Dudek

Boosting safety and comfort

Security Enhancements

Students and staff need to feel safe every day in order to have a valuable experience at school. Security features such as secure vestibules, security controls at entrances, security cameras and corridor partitions provide more monitoring and control of access to buildings. The new digital radio system increases our ability to communicate, to coordinate resources in crisis sitautions.

HVAC/Air Conditioning

Maintaining appropriate temperatures in school buildings is essential for students and teachers to feel comfortable and perform at their best. BVSD made significant investments in replacing/ renovating heating, ventilation and air conditioning (HVAC) systems in most schools, and commissioned the work to ensure equipment was operating as designed. Now systems are performing better and staff have more control over how they operate, boosting BVSD's ability to keep buildings comfortable.

Along with this work, the master plan called for air conditioning to be installed in eight schools. These schools were selected because they were especially hard to keep cool or because they offer extended summer learning programs for students who can benefit from more time in the classroom. Over the course of the Bond Program, project savings and contributions from other sources such as the City and County of Broomfield and Xcel rebates, made it possible to install air conditioning in all buildings with the exception of the mountain schools. This is a significant accomplishment that dramatically improves the learning environment and resolves an issue the district has struggled with for decades.

Supporting Students Better

Building a better home for BVSD buses

Every school day, BVSD buses drive approximately 12,300 miles to take over 5,000 students to and from school. BVSD's new 40,900-square-foot transportation terminal in Boulder provides a brand new home for hundreds of buses from BVSD's fleet. The new facility, which replaces a decades-old structure on the main Education Center campus, was moved to a larger site nearby to reduce traffic congestion at the other location. At more than twice the size of the old building, the new facility provides three more maintenance bays, significantly more storage, and room for driver training, something that was lacking in the old facility.

Boosting team member safety and efficiency

A number of features in the new facility will improve worker safety and comfort in the shop. Larger maintenance bays provide ample space for mechanics to safely move around the vehicles, equipment, and parts. Multiple moveable lifts elevate vehicles, allowing mechanics to work standing up vs. on the ground, reducing physical strain. Better lighting combined with light colored floors provide better visibility. An in-floor radiant heating and cooling system provides heat/cooling where the people are instead of in the air above them. The drive-through vehicle wash eliminates the risk of slipping on wet surfaces when washing by hand. Digital dashboards throughout the facility will make tasks ranging from ordering parts to scheduling training and preventive maintenance easier.

Built green from the ground up

The new facility is predicted to be 57% more energy efficient than a code-compliant building of the same type. Features such as a high-efficiency HVAC system, interior and exterior LED lighting, daylighting, and self-dimming parking lot lighting all contribute to the impressive efficiency predictions. The facility supports BVSD's commitment to sustainable transportation with both a propane filling station and EV charging on site for passenger vehicles and buses.

Keeping schools running each day takes the efforts of hundreds of BVSD staff working in transportation, food service, and administrative functions. Three new district support facilities will help these important BVSD team members do their jobs better, safer and more efficiently - all to support students and teachers in the important work they do.

A kitchen built to deliver freshness and quality

BVSD has worked for over a decade to transition to a scratch-cooked food program built on the cornerstones of freshness and local sourcing. Thanks to the belief of local voters that fresh food matters, the district took a giant step forward in fulfilling that mission with the construction of the new Culinary Center.

The new facility replaces three regional production kitchens that were located at schools. The regional production kitchens were never designed or sized for producing the amount of scratch-cooked food they were charged with, but had been retrofitted to get by over the years. While these kitchens served well to support the district's transition to scratch-cooked food, the retro-fitted facilities presented challenges, particularly related to food prep space and storage. The new facility can expand production up to 17,000 daily meals as demand grows.

A place for everything

The new 33,591-square-foot facility will reduce food and operating costs while allowing the district to expand initiatives such as nutrition education and addressing food insecurity. The Culinary Center features a loading dock with a fresh food processing area for deliveries, three food prep areas, abundant storage, a blast chill area, and business spaces. Features such as precise temperature control and separate areas for preparing raw meat and fresh veggies promote food safety. Production of food at one location provides more control over quality and waste.

Partnering with local farmers for the freshest food

The new building was intentionally designed to support the district's commitment to partnering with local farmers. A ground-level delivery door provides easier access for farmers' smaller trucks. Ample storage lets BVSD buy in bulk and store local seasonal crops—a benefit to smaller farms that often don't have storage capacity. A produce washing room boasts equipment designed to clean everything from hardy beets to delicate strawberries—so farmers don't have to. Sourcing food locally supports farmer families and provides the freshest food to Boulder Valley kids!

Learn more here!

Or take an extended tour!

Temperature regulation is a key component of food safety. Controls throughout the facility (such as in this cold prep room) ensure food is cooked, stored, and prepared at the correct temperature to keep it safe.

With more space in the new building, there's room for equipment to improve food preparation processes. This amazing dicer-slicer (above) preps French fries, salsa, and dozens of other foods in a fraction of the time. The "cook-chill" system (below) cooks large volumes of food with less labor time. It also packages food to extend the storage time --without preservatives-- so that bigger batches can be prepared.

With over 7,000 square feet of dry, refrigerated, and frozen storage, food can be stored at different stages of prepartion, allowing for bulk purchasing and cost savings without sacrificing freshness.

Farmer-friendly features mean BVSD will be able to expand contracts with local farmer partners and food producers. Sourcing food locally supports the local economy and has other benefits like protecting our agricultural heritage and agricultural open space.

New Education Center puts families first

The Education Center project, which included 45,000 square feet of renovation and 26,700 square feet of new construction, reconfigured the district's administration building to improve customer service to families and expand space for staff training.

Staff and departments that provide direct services to families are located near the front entrance so that parents coming to the building (often with small children) can access them easily.

The district's Professional Development Center (PDC), which hosts staff trainings and meetings was renovated to also serve as the Board of Education meeting room. Another training room was created across the corridor to provide additional space for learning and allow for concurrent sessions. New gender-neutral and family restrooms located in the same corridor ensure that all feel welcome.

The construction work addressed numerous structural deficiencies including code compliance issues, a degraded building exterior, inefficient windows, and worn-out roofs and boilers.

Boosting IT usability, security & stability

IT infrastructure upgrades were made at all buildings to assure system stability. Along with the new network, all classroom and desk phones were replaced in conjunction with the shift to a cloud-based system. New audio enhancement systems in all schools help students and teachers hear and be heard via lanyard microphones worn by teachers and handheld mics used by students.

Feedback from schools about the audio enhancement system has been very positive. Teachers appreciate that their voices aren't worn out by the end of the day. Students enjoy using the microphones and even the most soft spoken kids are able to be heard and participate.

Financial management

Bond debt to generate proceeds to fund projects was issued in three increments, in 2015, 2017, and 2019. In all cases, the bonds were sold online in a competitive bid market. The bids received reflect the bond market's very high level of confidence in the district, which results in lower interest cost for taxpayers. Premium dollars were earned on each sale providing additional revenue to the District, which was invested into projects.

2015

In April 2015, BVSD issued the first set of general obligation bonds in the amount of $250 million to fund the first phase of the Bond Program. Premium earned on this sale generated an additional $30,812,900.

2017

In March 2017, the second round of general obligation bonds was sold. The total amount issued was $283,740,000, including $190,000,000 issued for facilities improvements. $93,740,000 of the 2017 bonds were being issued to refinance the District's series 2007 general obligation bonds. The refinancing lowered the interest rate on this portion of the District's debt, and will allow it to be paid off sooner, producing a total debt service savings of more than $22 million. Premium earned on this sale generated an additional $29,324,600.

2019

In January 2019, BVSD offered its final series of bonds in a competitive bid process. The sale had two components - a refunding of $172.18M of 2009 debt and the final issuance of the 2014 authorization of $136.52 million. The refunding generated savings to taxpayers of $33.0 million over the next 15 years, at a net present value savings of $26.4 million. Related to the final issuance of voter-approved debt, the sale generated a premium of $20,867,275 million.

The total bond premium earned from all sales was $81,004,775.

Recommendations for the allocation of this additional revenue were made by the Citizens' Bond Oversight Committee and approved by the Board of Education. The allocations augmented existing project budgets to address additional scope or cost escalation. In addition, premium dollars were allocated to Program Reserve and for a land purchase for the new Transportation Center.

Investment Earnings

Revenue earned from the investment of earnings totaled $12,825,000 and was invested back into projects.

Additional Revenue

In some cases, individual schools contributed funds toward projects. Overall the total contributions from schools was $1,803,840. The district received rebates from Xcel in the amount of $878,000 for energy efficiency improvements. Additional contributions also were provided by municipalities, totaling $4,653,665.

Overall, the total additional revenue provided to the Bond Program from these various sources totaled $100,287,279.

Additional Revenue

$30,812,900	$29,324,600	$20,867,275	$12,825,000	$1,803,840	$4,653,665
Bond Premium April 2015	Bond Premium March 2017	Bond Premium January 2019	Investment Earnings	School Contributions	Other Contributions

TOTAL ADDITIONAL REVENUE $100,287,279

How the funds were spent

As of December 31, 2021

Personnel
2%

Fixtures & Equipment
8%

Furniture, Fixtures, Technology

Professional Services
9%

Architects, Energy Consultants, Permits, Engineering

Property
3%

New property was purchased and improved for the Transportation Center in Boulder.

Building Improvements
56%

The majority of Bond dollars were invested directly into existing buildings to extend their useful life and make changes to better support educational programs.

New Construction
22%

New construction replaced schools that were beyond repair including Creekside, Douglass, Emerald, and Halcyon. New buildings for Transportation, Food Services and the Education Center improve safety, efficiency, services to families and staff training.

Individual project accounting

Check out individual projects here.

ALL PROJECTS SUMMARY - Budget & Expenditures

AS OF : February 28, 2022

	BUDGET			EXPENDITURES
Project Name	**Original**	**Adjustments**	**Total**	**Cumulative**
FUTURE PROJECTS				
NEW VISTA HIGH*	9,470,000	3,835,228	13,305,228	1,543,556
TOTAL Future	**9,470,000**	**3,835,228**	**13,305,228**	**1,543,556**
COMPLETED PROJECTS				
ADMINISTRATION / WAREHOUSE	19,170,000	7,779,256	26,949,256	26,780,245
ANGEVINE MIDDLE	5,780,000	3,570,349	9,350,349	9,350,349
ARAPAHOE RIDGE HIGH	9,220,000	5,759,233	14,979,233	14,905,143
ASPEN CREEK K-8	4,410,000	1,877,521	6,287,521	6,287,521
BCSIS/HIGH PEAKS	5,060,000	2,884,032	7,944,032	7,944,032
BEAR CREEK ELEMENTARY	4,740,000	4,499,623	9,239,623	9,231,105
BIRCH ELEMENTARY	7,590,000	725,937	8,315,937	8,315,937
BOULDER HIGH	18,490,000	5,657,929	24,147,929	24,026,216
BOULDER PREP	130,000	164,548	294,548	294,548
BROOMFIELD HEIGHTS MIDDLE	13,310,000	1,336,540	14,646,540	14,646,540
BROOMFIELD HIGH	15,480,000	2,622,575	18,102,575	18,102,575
CASEY MIDDLE	960,000	970,495	1,930,495	1,930,495
CENTAURUS HIGH	21,630,000	8,272,299	29,902,299	29,892,049
CENTENNIAL MIDDLE	9,550,000	2,264,217	11,814,217	11,814,217
AC - CENTENNIAL MIDDLE	-	1,324,080	1,324,080	1,323,975
CENTRAL KITCHEN	10,060,000	6,370,772	16,430,772	16,419,176

* The New Vista project scope was changed from being a significant remodel to a complete rebuild. Design of the new building is in progress. Construction will be completed pending acquisition of additional funding. More information is available at bond.bvsd.org.

	BUDGET			EXPENDITURES
Project Name	Original	Adjustments	Total	Cumulative
COMPLETED PROJECTS				
COAL CREEK ELEMENTARY	3,490,000	3,138,300	6,628,300	6,620,126
COLUMBINE ELEMENTARY	230,000	960,073	1,190,073	1,190,073
COMMUNITY MONTESSORI	4,400,000	970,247	5,370,247	5,370,247
AC - COMMUNITY MONTESSORI	-	2,651,078	2,651,078	2,651,003
CREEKSIDE ELEMENTARY	17,410,000	3,411,801	20,821,801	20,821,801
CREST VIEW ELEMENTARY	5,950,000	2,947,781	8,897,781	8,897,781
DOUGLASS ELEMENTARY	20,570,000	3,672,269	24,242,269	24,242,269
DW : RADIOS	850,000	48,918	898,918	898,918
EISENHOWER ELEMENTARY	4,460,000	2,590,365	7,050,365	7,050,365
ELDORADO K-8	7,420,000	3,285,407	10,705,407	10,705,407
EMERALD ELEMENTARY	18,070,000	4,424,416	22,494,416	22,494,416
FAIRVIEW HIGH	18,280,000	4,988,456	23,268,456	22,946,192
FIRESIDE ELEMENTARY	4,180,000	3,135,875	7,315,875	7,315,875
AC - FIRESIDE ELEMENTARY	-	1,833,220	1,833,220	1,833,111
FLATIRONS ELEMENTARY	3,830,000	2,801,371	6,631,371	6,622,696
FOOTHILL ELEMENTARY	5,470,000	3,836,405	9,306,405	9,303,517
GOLD HILL	470,000	224,836	694,836	694,836
HALCYON	840,000	7,004,132	7,844,132	7,559,910
HEATHERWOOD ELEMENTARY	4,340,000	2,683,738	7,023,738	7,023,738
HORIZONS K-8	1,090,000	2,399,334	3,489,334	3,489,334
AC - HORIZONS K-8	-	1,158,447	1,158,447	1,158,376
IT: INTERNET AFFORDABLE HOUSING	390,000	(390,000)	-	-
IT: CLOSET AIR COOLING	650,000	(650,000)	-	-
IT: CLOSET UPGRADES	750,000	(271,980)	478,020	478,020
IT: DATA CENTER UPGRADES	850,489	(95,277)	755,212	755,212
IT: INTEGRATED AUDIO ENHANCE	3,510,000	(3,474,753)	35,247	35,246
IT: INTERNET/SYSTEM STABILITY	6,179,511	(185,655)	5,993,856	5,993,856

	BUDGET			EXPENDITURES
Project Name	Original	Adjustments	Total	Cumulative
COMPETED PROJECTS				
JAMESTOWN ELEMENTARY	470,000	162,016	632,016	632,016
JUSTICE HIGH	170,000	91,849	261,849	260,743
KOHL ELEMENTARY	4,890,000	3,152,503	8,042,503	8,042,503
LAFAYETTE BUS FACILITY	1,600,000	78,531	1,678,531	1,678,531
LAFAYETTE ELEMENTARY	4,790,000	5,239,537	10,029,537	9,661,337
LOUISVILLE ELEMENTARY	3,580,000	4,835,436	8,415,436	8,415,436
LOUISVILLE MIDDLE	5,330,000	889,572	6,219,572	6,219,572
MANHATTAN MIDDLE	6,350,000	4,161,968	10,511,968	10,511,968
AC - MANHATTAN MIDDLE	-	3,326,421	3,326,421	2,725,017
MAPLETON	1,100,000	1,319,159	2,419,159	2,419,159
MEADOWLARK	39,700,000	415,163	40,115,163	39,512,873
MESA ELEMENTARY	4,500,000	4,779,920	9,279,920	9,279,920
MONARCH HIGH	9,070,000	1,223,943	10,293,943	10,293,943
MONARCH K-8	5,840,000	3,365,508	9,205,508	9,205,508
NEDERLAND BUS FACILITY	260,000	246,115	506,115	506,115
NEDERLAND ELEMENTARY	4,900,000	1,222,944	6,122,944	6,122,318
NEDERLAND MIDDLE/SENIOR	5,940,000	3,331,073	9,271,073	9,243,391
PEAK TO PEAK	10,200,000	-	10,200,000	10,200,000
PIONEER ELEMENTARY	7,810,000	1,341,066	9,151,066	9,151,066
PLATT MIDDLE	13,870,000	2,991,778	16,861,778	16,861,778
AC - PLATT MIDDLE	-	3,277,425	3,277,425	3,277,129
RYAN ELEMENTARY	2,620,000	1,156,747	3,776,747	3,776,747
AC - RYAN ELEMENTARY	-	2,087,108	2,087,108	2,086,892
SANCHEZ ELEMENTARY	4,740,000	885,486	5,625,486	5,625,486
SOMBRERO MARSH ENVIRONMENTAL	360,000	242,394	602,394	602,394
SOUTHERN HILLS MIDDLE SCHOOL	9,340,000	(495,201)	8,844,799	8,844,799
SUMMIT MIDDLE	9,500,000	2,230,510	11,730,510	11,730,510

	BUDGET			EXPENDITURES
Project Name	**Original**	**Adjustments**	**Total**	**Cumulative**
COMPLETED PROJECTS				
SUPERIOR ELEMENTARY	4,220,000	3,345,842	7,565,842	7,565,842
TRANSITIONS	-	315,685	315,685	20,325
TRANSPORTATION	15,940,000	8,077,964	24,017,964	23,992,990
UNIVERSITY HILL ELEMENTARY	8,250,000	10,056,554	18,306,554	18,005,031
WAREHOUSE/MAINTENANCE	2,340,000	(2,340,000)	-	-
WHITTIER INTERNATIONAL ES	6,790,000	1,419,106	8,209,106	8,209,106
TOTAL Completed Projects	**473,730,000**	**181,612,327**	**655,342,327**	**652,096,892**
ADMINISTRATIVE & OTHER				
DEBT ISSUANCE	-	2,463,122	2,463,122	2,463,122
UNALLOCATED OVERHEAD	-	3,805,526	3,805,526	1,903,624
CENTRALIZED SPECIAL EDUCATION	6,500,000	(6,260,586)	239,414	-
DW : EARLY CHILDHOOD ED	8,550,000	(8,550,000)	-	-
DW : FULL-DAY KINDERGARTEN	13,800,000	(13,800,000)	-	-
INNOVATION	19,350,000	(19,032,678)	317,322	317,322
TOTAL Administrative & Other	**48,200,000**	**(41,374,616)**	**6,825,384**	**4,684,068**
RESERVES				
BOND PROCEEDS	-	-	-	-
INFLATION	37,230,000	(37,230,000)	-	-
PROGRAM RESERVE	7,890,000	(6,309,276)	1,580,724	-
TOTAL Reserves	**45,120,000**	**(43,539,276)**	**1,580,724**	**-**
TOTAL	**576,520,000**	**100,533,664**	**677,053,664**	**658,324,516**

Special thanks to:

the Boulder Valley Board of Education and District leadership for their vision for this program,

the Capital Improvement Planning Committee,

the Citizens' Bond Oversight Committee, and

the Design Advisory Teams for all projects!

Thank you!

The generosity of the BVSD community made this posssible.

BOULDER VALLEY
SCHOOL DISTRICT

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