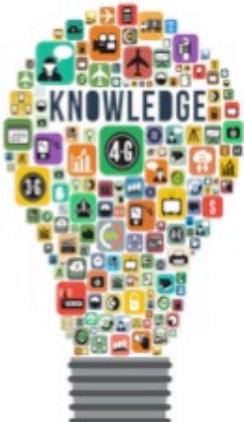


<p>OAK PARK UNIFIED SCHOOL DISTRICT</p> <p>EDUCATING COMPASSIONATE AND CREATIVE GLOBAL CITIZENS</p>		
<p>Five <b>Gold Ribbon</b></p>  <p>Schools</p>	<p><b>World Class</b></p>  <p>Teachers</p>	<p><b>Exceptional Students</b></p> 
 <p>Students' reach their <b>fullest potential</b> in a <b>safe and nurturing environment</b></p>	<p><b>Global Awareness</b></p> 	<p><b>Differentiated Learning</b></p> 
	<p><b>Collaborative Life-long Learners</b></p> 	<p><b>Commitment to Health and Wellness</b></p> 

# OAK PARK NEEDS ASSESSMENT REPORT

Oak Park Needs Assessment Committee Report to the Board of Education, April 19, 2016

# OAK PARK UNIFIED SCHOOL DISTRICT

## NEEDS ASSESSMENT

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### SUMMARY OF FINDINGS

### SPRING 2016

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## Executive Summary

The Oak Park Unified School District Needs Assessment Plan provides a fiscally responsible, 10-year investment framework for the future of our district. It provides opportunities for targeted and needed improvements at each of our school sites as well as district-wide initiatives. The investment decisions represented in the Plan are aligned with the School Board's moral imperatives for Educating Compassionate and Creative Global Citizens. The Plan builds on the recent improvements and lessons-learned at our oldest school sites, Brookside Elementary School and Oak Park High School, with particular focus on the functional and instructional space needs of Medea Creek Middle School, Oak Hills Elementary School Red Oak Elementary School, Oak View High School and Oak Park Independent School. To view the many improvements already achieved from the Measure R and Measure C6 bond fund programs, please click on this link: [opusdbond.org](http://opusdbond.org)

Some of the improvements to our campuses support all of our school sites and meet needs. These involve investments in the shared infrastructure that creates the base for modern instruction and learning. Teachers, students and administrators all benefit from four main categories that include Technology, Solar, 21<sup>st</sup> Century Libraries and Creativity and Innovation Space.

The following table provides a 10-year investment summary of the Needs Assessment Study. Project costs are grouped by major initiatives for improving safety and security, replacement of relocatable buildings and expansion to meet new district curriculum standards (adding new instructional space for science, technology, engineering and innovation), modernization and ongoing campus improvements (replacing lighting and HVAC systems), and general facilities improvements and repairs (replacing dilapidated faculty/student furnishings and improving drought tolerant landscaping). The district-wide and school site specific breakdown for these investments are provided in the sections below.

Oak Park Unified School District Needs Assessment 10-Year Investment Summary							
School Site	Brookside Elementary	Oak Hills Elementary	Red Oak Elementary	Medea Creek Middle	Oak Park High	Oak View/ OPIS / District Office	Subtotal
Campus Safety and Security	\$620,000	\$643,000	\$532,000	\$553,000	\$914,000	\$347,000	\$3,609,000
Replacement of Relocatable Buildings/ Expansion to meet new district Curriculum Standards	\$3,394,000	\$4,148,000	\$2,640,000	\$3,017,000	\$1,131,000	\$3,771,000	\$18,101,000
Modernization and On Going Campus Improvements	\$1,996,000	\$4,408,000	\$5,667,000	\$7,868,000	\$9,896,000	\$558,000	\$30,393,000
General Facilities Improvements and Repairs	\$1,393,000	\$474,000	\$639,000	\$1,117,000	\$4,481,000	\$959,000	\$9,063,000
<b>School Site Subtotals</b>	<b>\$7,403,000</b>	<b>\$9,673,000</b>	<b>\$9,478,000</b>	<b>\$12,555,000</b>	<b>\$16,422,000</b>	<b>\$5,635,000</b>	
Total School Sites Investment							\$61,166,000
District-Wide Technology Investment							\$13,828,000
District-Wide Solar Investment							\$8,000,000
District Wide 21st Century Libraries Investment							\$3,000,000
Total Needs Assessment Investment							\$85,994,000

These needs fairly represent the current and reasonably foreseeable needs of the District at this point in time. We also recognize that needs may change over time and that these estimates do not take into account any unforeseen circumstances that may arise in the future. As we implement improvements over time we will reassess these needs to ensure that the best investments are being made for the long-term health of the District.

## Overview

Nearly 40 years ago Oak Park built a local school district to serve the community. Today our children are the benefactors of that original vision. Our school district staff works hard each day to operate and maintain our school sites to meet the needs of Educating Compassionate and Creative Global Citizens. Our challenge now is to look to the future and begin to mold our schools into the learning centers that will support an educational environment very different from the past and well beyond the innovations of today.

The Oak Park Unified Needs Assessment Committee was formed to develop a living, 10-year plan for the future of our schools. Comprised of teachers, administrators, board members and parents, we have worked together over the last year to understand more about our students and our schools. We have learned about the educational and technological possibilities of tomorrow while simultaneously grappling with the uncertainty and financial realities of school funding. Our understanding of the issues facing our district and our community along with expert architectural support has created thoughtful plans and priorities to guide the investment in our schools.

This Needs Assessment Plan is a framework for the future of our district. It provides opportunities for targeted and needed improvements at each of our school sites as well as district-wide initiatives in technology, solar power, libraries and creativity and innovation spaces. It builds on the recent improvements and lessons-learned at our oldest school sites, Brookside Elementary School and Oak Park High School, with particular focus on the functional and instructional space needs of Medea Creek Middle School, Oak Hills and Red Oak Elementary Schools, Oak View High School and Oak Park Independent School. To view the many improvements already achieved from the Measure R and Measure C6 bond fund programs, please click on this link: [opusdbond.org](http://opusdbond.org)

21<sup>st</sup> Century learners will have many advantages in the future of our economy and our world. The best part about the original vision for Oak Park Unified School District is that our children could learn and succeed right here in their own back yard. Today that vision is reflected in the awards and standing that Oak Park has achieved in the region, State and national rankings and the vast success of our students. This vision is alive and well as we look to the future and continue to invest in our students, our community and our schools.

## District Wide Initiatives

Some of the improvements to our campuses support all of our school sites and meet district-wide needs. These involve investments in the shared infrastructure that create the base for modern instruction and learning. Teachers, students and administrators all benefit from four main categories that include Technology, Solar, 21<sup>st</sup> Century Libraries and Creativity and Innovation Space.

### Technology

The mission of the Oak Park Unified School District is rooted in the belief that all students should receive an educational experience that is differentiated, engaging and innovative. This moral imperative has been one of the guiding influences that has shaped the district's emphasis on providing the appropriate tools in the classroom to prepare students for the world and workplace they will soon be entering. Computer technology has advanced rapidly since the invention of the personal computer democratized access to information processing. Computing has quickly grown beyond data storage and retrieval to being an indispensable utility for providing ubiquitous access to information and analysis, an enabler for concurrent collaboration, and a platform for creativity and expression of ideas.

Through technology, students graduate beyond being consumers of information, to becoming producers of meaning and architects of change to a worldwide audience.

Since the passage of Measure R and Measure C6 in 2006, the district has invested in ensuring that teachers and students have access to the appropriate technology tools and infrastructure to allow innovative and engaging learning that

utilizes the strengths of emerging computing tools. We are now at a turning point where we need to continue our investment in technology resources in order to continue to build upon the platform created.

Technology transforms teaching and learning in three phases:



The 21<sup>st</sup> Century Classroom initiative which C6 funded in large part provided teachers with a laptop, an interactive whiteboard, document camera, and student responders, along with a first generation network infrastructure that allowed the district's computers to be networked and files to be stored and backed up on file servers. Computer labs were built at each school site and mobile carts of laptops (Computers On Wheels – COWs) were also provisioned through C6. This investment and resulting foundation allowed the district to advance through Phase 1 and Phase 2 transformations of teaching and learning.

The popularization of the smartphone and the invention of the first commercially successful tablet computer in 2010 (the iPad) signaled a major shift in how society interacted with computing technology. For the first time, mobile devices made computing truly personal and ubiquitous access to the Internet started to dramatically shift the landscape of business and culture. By 2013, technologists proclaimed that society had entered a post-PC world. The mobile computing revolution changed the balance of power and altered the calculus of what it takes to participate in the collaboration economy.

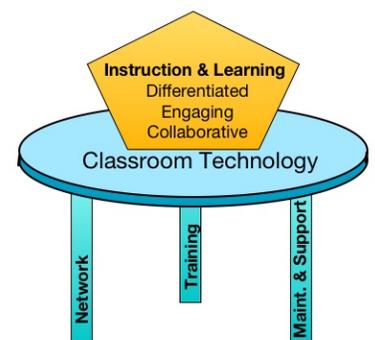
Beginning in 2013, the district began a pivot to address this reality and embarked on a multi-year plan to rebuild its network and infrastructure to support a learning environment of mobile computing with the goal of shifting more of the locus of control and experience of technology into the hands of students. This enabled the district to advance into Phase 3 where computing technology became so ingrained into the fabric of learning that it faded into the background as a tool no more special than a pencil, binder, or textbook.

Classroom technology has never been the ultimate goal nor final destination for the district. Rather, classroom technology has been the platform upon which instruction and learning that is differentiated (each student receiving what they need to master the curriculum unique to their own learning styles and modalities), engaging (well-designed software draws each student into an interactive, adaptive learning situation with the chance for individualized remediation), and collaborative (multiple students working together to accomplish a learning goal or to produce a group product) is able to draw the student into an active role in their daily experience. Such a learning platform can only be stable and sustainable if it is built upon a solid foundation of three pillars:

- 1) A robust network infrastructure
- 2) Sufficient personnel resources devoted to staff training on effective use of the technology tools
- 3) The proper level of resources applied to system maintenance and support.

Measure C6, and to a lesser extent Measure R, have been the vehicles the district has used to fund certain parts of the classroom technology, more specifically the network infrastructure, and many of the end user devices used for instruction and learning in the classroom.

For more information about the life expectancy of current technology, the 10-year refresh plan and all costs associated with present and future costs, please see Appendix A.



## Solar Energy

In support of our Moral Imperatives and Goals which include evaluation and exploration of to evaluate and explore options to create greater efficiency and maximize resources, a district wide solar energy project would bring significant benefits to Oak Park USD. Operating cost usually earmarked for energy related utilities would be reallocated for future student, classroom and curricular support.

Those benefits include:

- Economic Value
- Shade for Students and Community
- Educational Opportunities
- Demonstration of Leadership to the Community

In 2014 and 2015, 449 solar panels were installed with the capacity to generate up to 15% of the electricity used at Oak Park High School. This installation was financed through the use of future electric cost savings and preserved bond funds for other district projects.

SK Solar designed a system that included 2 separate arrays. One array was mounted on the rooftops of newly built classrooms made from modified shipping containers. The other array utilizes solar shade structures offering a dual purpose to Oak Park High School. It provides green energy at a fixed cost and shade to the student body during their breaks on campus.

Energy savings for the district amount to a minimum of \$12,000 per year and will exceed \$400,000 over the lifespan of the system.

### Economic Value



The cost for the design, construction, and commissioning of solar systems for all Oak Park USD schools will be \$6,633,570. The maintenance contract will be \$1,015,901 for 25 years and provides all maintenance for the solar energy system, including a production guarantee.

The district-wide solar energy project will save the district \$11 million dollars over 25 years. The Internal Rate of Return for the District's investment will be 7.6%.

### Shade for Students and Community

Solar carports and spectator shades provide shade and solid investment returns to limited use campus areas without risking damage or added costs to school roof structures.

### Educational Opportunities

The solar energy systems will be monitored for the generation of electricity, so that students and teachers can track the production of the power plants. They also will have access to weather stations, so that the solar production and weather can be tracked together. These systems can be incorporated into the classroom while giving students hands-on experience with data and analysis.

### Demonstration of Leadership to the Community

Through the construction of solar energy systems at all campuses, the Oak Park USD will demonstrate its commitment to clean air, saving money for kids, providing shade for those that use the field spaces and parking lots, and providing educational opportunities for students.

For more information about the possible placement of the Solar Panels as suggested by a consultant, please see Appendix C.

## 21<sup>st</sup> Century Libraries

Libraries of the past only offered as much access to information as there was space for books. As technology becomes increasingly integrated with the traditional library more information becomes available, but the space becomes congested as a variety of activities begin to take place all in one space.

Our Needs Assessment Plan includes opportunities to:

- Expand our materials to include academic databases
- Redesign our libraries with breakout rooms, quiet and comfortable spaces
- Equip our existing space to support collaboration and ergonomic carrels for students who want to work with technology and protect their physical health.

Investing in our libraries is directly connected to the District's Moral Imperatives and Goals. Libraries equipped with academic databases, textbooks and novels (both digital and non-digital formats) in a safe and flexible space will offer students the most comprehensive approach to access their education.

These 21<sup>st</sup> Century Libraries will be equipped with ample power, data, whiteboard wall space, an interactive projector and mobile and stackable furniture for reconfiguration. The design lends itself to three different types of space: (1) Flexible (movable and comfortable), (2) Ergonomic (set up for long stints at a computer with appropriate additions to create an ergonomic workspace), and (3) Kinesthetic (students are able to move as they think).

We are excited to integrate our plan to allow for a tremendous amount of flexibility and collaboration

Potential hybrid libraries:

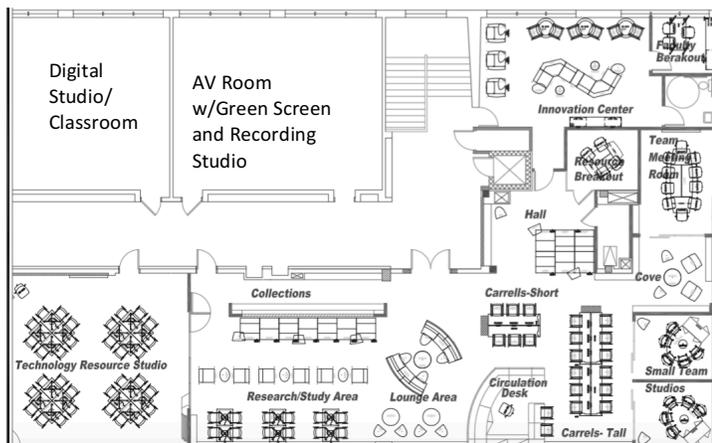


Photo Courtesy of SHKS Architects

## Creativity and Innovation Spaces



Photo courtesy of SHKS Architects

As noted Stanford education professor Linda Darling Hammond writes in her book, *The Flat World and Education*, ..."the new mission of schools is to prepare students to work at jobs that do not yet exist, creating ideas and solutions for products and problems that have not been identified, using technologies that have not been invented." So it is no wonder then that when IBM surveyed 1,541 CEO's they said **creativity** is the most important leadership quality they are looking for. "To compete in the global marketplace, I need employees who are well-rounded and have the skill sets that they have learned from the arts." says Rick Gallaher, Senior Engineer, at Boeing. These skills are imagination, investigation, construction, and reflection. While innovation remains tightly coupled with Science, Technology, Engineering and Math – the STEM subjects, it is Art + Design that are poised to transform our economy in the 21st

century just as science and technology did in the last century. We need to add Art + Design to the equation — to transform STEM into STEAM. It is for this reason that Oak Park USD has embarked on an initiative to implement Science, Technology, Engineering, Arts, and Math, or "STEAM" learning experiences district wide to enable students reach their full potential!

Oak Park USD students have successfully transitioned from the silos of subject specific direct instruction to inquiry based learning. Now it is time to engage them in the creative processes of making and design. Imagine a space where you could build a robot, sew a dress, do artwork, and print a prosthetic arm for a child in need, all in one place! It is not solely a science lab, woodshop, computer lab, or art room; but tears down the walls between the silos in pursuit of **interdisciplinary and project based learning**. A dedicated space where students are able to engage in the four creative practices of the arts via maker-centered activities. This will inspire a shift from consumer to producer mentality and instill a renewed interest in the STEAM professions to solve real world problems. In this space students will reach their individual potential as they explore, create and discover in a safe and authentic learning environment. With its flexible design this space will accommodate a wide range of activities, tools and materials. This will allow use in diverse classes with different contexts to embrace a wide range of content domains and types of projects while maintaining a focus on 21st Century learning.

In the Creativity and Innovation space students will learn new skills and technologies as they build, tinker, and design, especially when working together. However, according to *Agency by Design: Project Zero* conducted by Harvard Graduate School of Education, the most important salient benefit of maker-centered learning is the development of a sense of self-efficacy, agency and community. This will empower students to engage with and shape the designed dimension of their world as they develop the skills of problem solvers, innovators, creators, and collaborators to empower them to do so. With integrated arts students will cultivate empathy and sensitivity, and celebrate unique perspectives. Our goal is to develop these well rounded characteristics in students, compassion and creativity, to satisfy the critical need in the education industry pipeline for engineers, scientists, and innovators as well California's top creative industries including animation, entertainment, industrial design and toy design, while simultaneously teaching the whole child. These artistic experiences are critical to the well being of individuals and society.

Oak Park USD recognizes the need for both **career** and **technical** programs that give students the best opportunity to **serve their communities as productive citizens**

## School Site Overview

Improvements to each district school site focus on upgrading campus safety and security, replacing aging relocatable classrooms, modernizing classrooms, continuing improvements and repairs. Investments are targeted for each campus to build on and enhance previous improvements.

### Brookside Elementary School

#### Message from the Principal

Brookside Elementary School strives to maintain a vibrant learning environment that supports the innovative, forward-thinking educational program for which Oak Park USD is known. We are committed to preparing students with the skill set and knowledge base they will need to excel well beyond their elementary school years. To that end, it is important that we remain cutting edge in our programs, facilities, strategies, and materials.

Without the most up-to-date technology we cannot meet this objective. Without the equipment and materials needed for hands-on, project-based learning we are stifled. Without assuring the safety and security of our students and staff we certainly cannot be effective in our teaching.

We are unquestionably in a new era of education. New state standards have led to new expectations for student mastery. New and ever evolving technologies have led to new demands for educators. We find ourselves in a rapid pace of change that requires us to continually evolve, adapt and forge ahead. This transition requires the most up-to-date infrastructure in order to move forward.

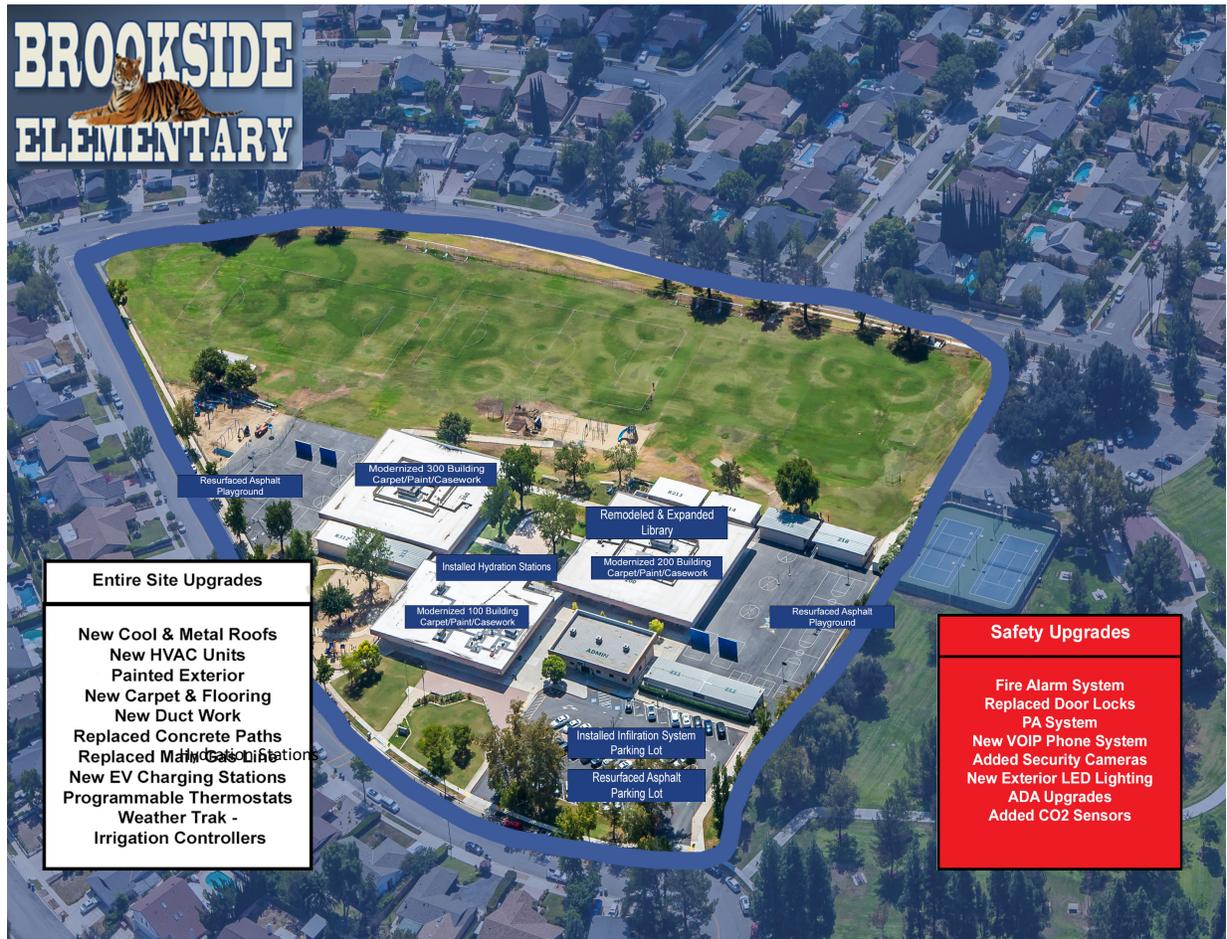
Let us continue to work hand in hand with our community to maintain our status amongst the highest achieving and most desirable learning communities in California and beyond.

**from Principal Sara Ahl**

## Site Map

Brookside Elementary School was built in 1967 and additional structures added in 1997. Below are key facts about the site.

Year School Built	1967 and 1997
Building Type	Elementary School
Number of Students (as of March 10, 2016)	609
Number of Buildings / Units	Four Buildings / Eight Portable Classrooms
Number of Stories	One Story
Type of Construction	Type V
Site Area	436,471 Square Feet (SF)
Building Area	41,525 SF (includes covered areas)
Building 100	7,004 SF
Building 200	10,574 SF
Building 300	10,574 SF
Eight Relocatable Classrooms	7,680 SF



## Estimated Cost of Plan Projects by Category

The funding primarily generated from past bonds voted by the Oak Park community, as well as the added value of the state modernization matching funds, has allowed the district to complete substantial improvements to our oldest school site, Brookside Elementary School. **An example of the manner in which funding resources have helped our site is the multi-purpose room. The improvement to this building has provided additional space for student performances and school gatherings, as well as additional storage space for tables and other school equipment.**

While these funds have proven to be beneficial to sustaining our school site and district initiatives, further repairs and improvements are necessary.

The table below shows completed projects over the past few years, as well as future needs and funding estimates. The information is presented as part of our four pillars of needs: Campus Safety and Security, Replacement of Relocatable Buildings/Expansion to meet new District Curriculum Standards, Modernization and On Going Improvements and General Facilities Improvements and Repairs.

### Brookside Elementary School

Need	Projects Completed	Future Needs	Future Investment
<b>Campus Safety and Security</b>	Campus-wide fire alarm installation, security cameras and hardware upgrades, upgrade campus phone system	Upgrade security fencing and campus security monitoring  Increase security camera coverage and install access control door hardware	\$620,000
<b>Replacement of Relocatable Buildings/Expansion to meet new District Curriculum Standards</b>		Build Creativity and Innovation Space for student collaboration, and support of interdisciplinary and project based learning  Replace aging, temporary relocatable classrooms with permanent, energy sufficient classrooms	\$3,394,000
<b>Modernization and On Going Campus Improvements</b>	Modernization/expansion of school library  Modernization/expansion of school multipurpose room  Modernization and upgrades to classroom buildings  Addition of playground shade sail structures  Roof replacement with energy efficient reflective materials  Energy efficient HVAC upgrades	Upgrade classrooms and student health office  Replace HVAC systems in two buildings, interior lighting with energy sufficient LED and athletic equipment  Create 21 <sup>st</sup> Century Library Space	\$1,996,000

Need	Projects Completed	Future Needs	Future Investment
<b>General Facilities Improvements and Repairs</b>	Classroom and student restroom upgrades Upgrades to site accessibility, play areas and parking lot Exterior building repairs and repainting	Replace and upgrade student / staff furnishings and instructional / curriculum equipment Improve drought tolerant landscape and irrigation, site utility systems and turf areas	\$1,393,000
<b>TOTAL</b>			<b>\$7,403,000</b>

## Oak Hills Elementary School

### Message from the Principal

Oak Hills Elementary School opened its doors in September of 1988. In the twenty-eight years since then, our school has been on the leading edge of education with innovative instructional practices that have consistently led to high academic achievement in a safe and supportive environment. Our school home has been well cared for, with many significant improvements made possible by Measure R and C6. Examples include new energy-efficient roofing, replacement of rusted out window frames, new playground surfaces with reengineered drainage systems, new shade structures, and an extensive array of educational technology. Since the school was built, eleven additional relocatable classrooms have been added to house the fifth grade classes, music program, intervention and support programs, Discovery Kindergarten, and the Oak Park Neighborhood preschool. But just like any well-loved home, the Oak Hills campus is showing its age, and is no longer able to support the state-of-the-art 21<sup>st</sup> century school the Oak Park community needs.

The best schools of today are built to engage students in new kinds of learning. The new California Standards emphasize critical thinking skills, and call upon teachers to explicitly teach the 21<sup>st</sup> century skills that will be essential for our students to be college and career ready. Teachers should not be limited to content that can be easily taught within the walls of a traditional classroom, while students work independently at their desks. This method of teaching is not sufficient to prepare our students to be successful in careers that emphasize 21<sup>st</sup> century collaboration skills. Although many of the careers that will be available to today's students do not yet exist, we know that our focus needs to be on producing creative life-long learners who can think critically, communicate effectively, and find creative solutions to complex problems. Students need to explore, create and discover in a manner that is authentic and personally meaningful. Our schools, therefore, need to allow spaces for more hands-on activities, deeper exploration and research, small group collaboration, and shared learning with authentic audiences.

**from Principal Erik J. Warren**

## Site Map

Oak Hills Elementary School was built in 1988. Below are key facts about the site.

Year School Built	1988
Building Type	Elementary School
Number of Students (as of March 10, 2016)	529
Number of Buildings / Units	Three Buildings / Ten Portable Classrooms
Number of Stories	One Story
Type of Construction	Type V
Site Area	349,351 Square Feet (SF)
Building Area	41,720 SF (includes covered areas)
Building A	14,306 SF
Building B	6,619 SF
Building C	3,113 SF
Nine Relocatable Classrooms	8,640 SF
One AMPM Relocatable Unit	960 SF



## Estimated Cost of Plan Projects by Category



The funding primarily generated from past bonds voted by the Oak Park community has allowed the district to complete substantial improvements to Oak Hills Elementary School. **An example of the manner in which funding resources have helped our site is the refurbishment and upgrade to the playground area providing necessary drainage improvements which increased outdoor teaching and gathering spaces and mitigated ongoing damage to classrooms during heavy rains. The playground improvements also included playground shade sail structures to protect students while at play.**

While these funds have proven to be beneficial to sustaining our school site and district initiatives, further repairs and improvements are necessary.

The table below shows completed projects over the past few years, as well as future needs and funding estimates included in our Needs Assessment Plan. The information is presented as part of our four pillars of needs: Campus Safety and Security, Replacement of Relocatable Buildings/Expansion to meet new District Curriculum Standards, Modernization and On Going Improvements and General Facilities Improvements and Repairs.

### Oak Hills Elementary School

Need	Projects Completed	Future Needs	Future Investment
<b>Campus Safety and Security</b>	Campus-wide fire alarm installation, security cameras and hardware upgrades, upgrade campus phone system	Upgrade security fencing, campus lighting and campus security monitoring  Increase security camera coverage and install access control door hardware	\$643,000
<b>Replacement of Relocatable Buildings/Expansion to meet new District Curriculum Standards</b>		Build Creativity and Innovation Space for student collaboration, and support of interdisciplinary and project based learning  Replace aging, temporary relocatable classrooms with permanent, energy sufficient classrooms	\$4,148,000
<b>Modernization and On Going Campus Improvements</b>	Refurbishment of playground and parking areas  Addition of playground shade sail structures  Roof replacement with energy sufficient reflective materials  Energy efficient HVAC upgrades	Upgrade classrooms and student health office  Reconfigure and modernize interior spaces to further support curriculum and student collaboration  Replace additional HVAC systems in two buildings, interior lighting with energy sufficient LED and athletic equipment  Create 21 <sup>st</sup> Century Library Space	\$4,408,000

Need	Projects Completed	Future Needs	Future Investment
<b>General Facilities Improvements and Repairs</b>	Classroom and student restroom upgrades Upgrades to site accessibility, play areas and parking lot Exterior building repairs and repainting	Replace and upgrade student / staff furnishings and instructional / curriculum equipment Improve drought tolerant landscape and irrigation, site utility systems and turf areas	\$474,000

**TOTAL                    \$9,673,000**

## Red Oak Elementary School

### Message from the Principal

When Red Oak Elementary School was founded, we adopted the motto, *A place where kids can grow*. Now that “place” needs to evolve to meet the current needs of our students. We seek to create an improved place so that kids can grow and have the skills and knowledge necessary for success in a future different from the one that was first envisioned. Instead of passive learning, California’s new learning standards require students to actively explore the world and construct their own internal models of understanding. To help our students master new standards, we need to transform our classrooms to create learning environments that are more efficient at facilitating 21<sup>st</sup> Century learning. Renovated and upgraded classrooms would accommodate a variety of learning opportunities driven by inclusivity, collaboration and increased student involvement. We need to reimagine our learning spaces so that they are adjustable and adaptable to enhance the ability of students to reach their potential and attain deeper understanding. Learning spaces will need to be technology enhanced and readily available to provide students with many different pathways to exploration and discovery. Workspaces need to be altered to foster collaboration and provide for group projects and presentations. Learning studios would provide space for creative endeavors, communal projects, reflection and storage. Information depositories such as our Computer Lab and Library could be transformed into media centers where students use resources to create artifacts, brainstorm and connect with learners across the globe.

To keep our Red Oak students achieving at a high level, we need to provide them with a learning environment that will support the active construction of knowledge and skills that are essential for success. The future of our Red Oak students is rooted in an ever-increasing reliance on the utility and power of technology to enhance learning and achievement. We need to think ahead to ways in which we can fit technology and hands-on authentic learning experiences more seamlessly into our available learning spaces. We envision a Red Oak campus that provides the type of learning environments that can be reconfigured and adapted to future needs. Our school must evolve or we risk falling behind. We can assure that our Red Oak students will thrive and grow if we are willing to invest in their future.

**from Principal Dr. Jon Duim**

## Site Map

Red Oak Elementary School was built in 1994. Below are key facts about the site.

Year School Built	1994
Building Type	Elementary School
Number of Students (as of March 10, 2016)	604
Number of Buildings / Units	Three Buildings / Six Portable Classrooms
Number of Stories	One Story
Type of Construction	Type V
Site Area	403,365 Square Feet (SF)
Building Area	40,090 SF (includes covered areas)
Building A	7,004 SF
Building B	10,574 SF
Building C	10,574 SF
Six Relocatable Classrooms	7,680 SF



## Estimated Cost of Plan Projects by Category

The funding primarily generated from past bonds voted by the Oak Park community has allowed the district to complete substantial improvements to Red Oak Elementary School. **An example of the manner in which funding resources have helped our site is the replacement of aging roofs with 30-year warranty sustainable reflective roofing, reducing energy consumption of heating and air conditioning systems as well as mitigated costs to the General Fund for ongoing water damage repairs. Additional exterior improvements including exterior painting and replacement of aging window systems further protecting and preserving the buildings.**

While these funds have proven to be beneficial to sustaining our school site and district initiatives, further repairs and improvements are necessary.

The table below shows completed projects over the past few years, as well as future needs and funding estimates. The information is presented as part of our four pillars of needs: Campus Safety and Security, Replacement of Relocatable Buildings/Expansion to meet new District Curriculum Standards, Modernization and On Going Improvements and General Facilities Improvements and Repairs.

### Red Oak Elementary School

Need	Projects Completed	Future Needs	Future Investment
<b>Campus Safety and Security</b>	Campus-wide fire alarm installation, security cameras and hardware upgrades, upgrade campus phone system	Upgrade security fencing and campus security monitoring  Increase security camera coverage and install access control door hardware	\$532,000
<b>Replacement of Relocatable Buildings/Expansion to meet new District Curriculum Standards</b>		Build Creativity and Innovation Space for student collaboration, and support of interdisciplinary and project based learning  Replace aging, temporary relocatable classrooms with permanent, energy sufficient classrooms	\$2,640,000
<b>Modernization and On Going Campus Improvements</b>	Roof replacement with energy efficient reflective materials  Exterior repairs and painting  Refurbishment of playground and parking areas  Addition of playground shade sail structures  Energy efficient HVAC upgrades	Upgrade classrooms, PA system and student health office  Reconfigure and modernize interior spaces to further support curriculum and student collaboration  Replace additional HVAC systems with high efficiency systems, interior lighting with energy efficient LED and athletic equipment  Repair and replace of failing site utility systems  Create 21 <sup>st</sup> Century Library Space	\$5,667,000

Need	Projects Completed	Future Needs	Future Investment
<b>General Facilities Improvements and Repairs</b>	Classroom and student restroom upgrades  Upgrades to site accessibility, play areas and parking lot	Replace and upgrade student / staff furnishings and instructional / curriculum equipment  Improve drought tolerant landscape and irrigation, site utility systems and turf areas	\$639,000

**TOTAL      \$9,478,000**

## Medea Creek Middle School

### Message from the Principal

We at Medea Creek Middle School look into the future and imagine what we cannot see, because a world-class staff and student body like ours demands a site that expands our capacity to innovate and achieve by maximizing our resources. Effective learning strategies have evolved into being more collaborative and project-based, necessitating work spaces that are flexible and multi-purpose. New technologies allow for new learning opportunities. What if we could transform hallways and storage areas into collaborative spaces to construct, experiment and present our next great idea? What if our students had new space to engage in music and drama performances, create simulations, or allow for History Day or Science Olympiad presentations? What if students were able to design and construct, and then program and utilize their creations instead of just coming up with the ideas.

What if our buildings themselves, generating solar power, were also an authentic learning experience in creating a sustainable planet? What if our technology freed us from our desks, while connecting us to our world? MCMS has been transforming learning and instruction continuously. Set computer labs have given way to mobile laptop carts; work areas have been created outside classrooms, indoors and outdoors, with walls literally broken down. We continue to have the need for more and flexible spaces, accessible storage, and infrastructure that allows for the constant upgrades of technology.

Google recently built its headquarters in Mountain View, California with all designs, architecture and programs, focused on productivity. We know a lot about ideal learning conditions for students (i.e. natural light, movement) and effective teaching methodology than ever before; we should be re-designing our schools to allow for this productivity.

Transformation is a process, and change is what keeps us competitive. The power of our community combined with a campus eager to shape the future will guide what MCMS will become.

**from Principal Brad Benioff**

## Site Map

Medea Creek Middle School was built in 1992. Below are key facts about the site.

Year School Built	1992
Building Type	Middle School
Number of Students (as of March 10, 2016)	1,095
Number of Buildings / Units	Five Buildings / Four Portable Classrooms
Number of Stories	One Story
Type of Construction	Type V
Site Area	435,164 Square Feet (SF)
Building Area	73,121 SF (includes covered areas)
Building A Admin	5,443 SF
Building B Multi Use	16,708 SF
Building C Classroom / Library	31,883 SF
Building D Classroom	4,096 SF
Building E Two Story Classroom	9,600 SF
Four Relocatable Classroom	3,840 SF



## Estimated Cost of Plan Projects by Category



The funding primarily generated from past bonds voted by the Oak Park community, has allowed the district to complete substantial improvements to Oak Park’s only middle school site, Medea Creek Middle School. **An example of the manner in which funding resources have helped our site is the addition of HVAC in the school Gym. The addition of heating and air conditioning has transformed the Gym from an uncomfortable space to a community shared building which now provides a flexible enjoyable space for physical education and sporting events, student performances and school gatherings.**

While these funds have proven to be beneficial to sustaining our school site and district initiatives, further repairs and improvements are necessary.

The table below shows completed projects over the past few years, as well as future needs and funding estimates. The information is presented as part of our four pillars of needs: Campus Safety and Security, Replacement of Relocatable Buildings/Expansion to meet new District Curriculum Standards, Modernization and On Going Improvements and General Facilities Improvements and Repairs.

### Medea Creek Middle School

Need	Projects Completed	Future Needs	Future Investment
<b>Campus Safety and Security</b>	Campus-wide fire alarm installation, security cameras and hardware upgrades, upgrade campus phone system	Upgrade security fencing and campus security monitoring  Increase security camera coverage and install access control door hardware	\$553,000
<b>Replacement of Relocatable Buildings/Expansion to meet new District Curriculum Standards</b>		Build Creativity and Innovation Space for student collaboration, and support of interdisciplinary and project based learning  Replace aging, temporary relocatable classrooms with permanent, energy sufficient classrooms	\$3,017,000
<b>Modernization and On Going Campus Improvements</b>	Heating and air conditioning system for the Gym  Addition of central exterior Amphitheatre  Roof replacement with energy efficient reflective materials	Upgrade classrooms and student health office  Reconfigure and modernize interior spaces to further support curriculum and student collaboration	\$7,868,000

Need	Projects Completed	Future Needs	Future Investment
	Energy efficient HVAC upgrades at classrooms	Replace additional HVAC systems with high efficiency systems, interior lighting with energy efficient LED and athletic equipment  Repair and replace failing site utility systems  Replace and upgrade student / staff furnishings and instructional / curriculum equipment  Create 21 <sup>st</sup> Century Library Space	
<b>General Facilities Improvements and Repairs</b>	Classroom and student restroom upgrades  Upgrades to site accessibility, play areas, parking lot and student drop off  Exterior building repairs and repainting	Improve drought tolerant landscape and irrigation, site utility systems and turf areas	\$1,117,000

**TOTAL      \$12,555,000**

## Oak Park High School

### Message from the Principal

Aligned with district Moral Imperatives and Goals, Oak Park High School offers a comprehensive program of academic, technical, and Fine Arts courses and experiences including athletics and extracurricular offerings. However, scheduling and coordinating the extensive program and events on the campus is an ongoing and complicated affair. The site's major facilities include:

Classroom buildings, grouped mainly by department to facilitate teacher collaboration, although current facilities cannot accommodate this grouping for every department.

Spread between two buildings, the Science department has specially designed labs to allow the delivery of UC/CSU lab science courses along with the AP science classes.

The Pavilion performing arts center is at maximum capacity as the programs have grown to fully utilize the space. The Pavilion is used by almost every major group on campus including all three of the performing arts groups, as well as for district and community events.

The growing Career Technical Education and Visual Arts program is housed in a building that also includes the student store, textbook room, and College and Career Center.

We have dedicated computer labs for media arts and foreign language classes as well as mobile computer labs.

Athletic facilities include a gymnasium with a weight room, dance room, athletic training office, locker rooms and coaches' offices. Outdoor spaces include basketball and tennis courts, playing fields for soccer, lacrosse, football, baseball, softball and track. These spaces are shared with community youth sports organizations as well as with the Rancho Simi Recreation and Parks District.

The administration building houses the student support services, including counseling, registrar, attendance, health office, and site administration.

We want to continue to offer OPHS students a comprehensive selection of quality programs to meet their individual needs. In many cases these programs are integrated and specialized. The instructional needs of these programs require facilities that reflect the learning community's expectations and priorities. Students deserve a variety of quality opportunities to prepare them to face the challenges of the future. The funding of educational opportunity is critical to the students' success and must be ongoing as society, technology, and the manner in which we share knowledge and information grows more complex.

**from Principal Kevin Buchanan**

## Site Map

Oak Park High School was built in 1979-2005. Below are key facts about the site.

Year School Built	1979-2003
Building Type	High School
Number of Students (as of March 10, 2016)	1,517
Number of Buildings / Units	12 Educational Buildings / 11 Portable
Number of Stories	One and Two Stories
Type of Construction	Type IIIN, VN, V-1 Hour
Site Area	1,938,420 Square Feet (SF)
Building Area	112,720 SF (includes covered areas)
Building A Gymnasium	20,168 SF
Building C Classrooms	19,027 SF
Building E Admin / Classrooms	10,138 SF
Building F Classrooms	9,668 SF
Building G Classrooms	12,791 SF
Building H (Two Story Relocatable)	7,680 SF
Pavilion	15,179 SF
Buildings M and N Restrooms	2,874 SF
Library – Joint Use	10,498 SF
11 Relocatables	10,560 SF



## Estimated Cost of Plan Projects by Category

The funding primarily generated from past bonds voted by the Oak Park community, as well as the added value of the state modernization matching funds, has allowed the district to complete substantial improvements to Oak Park's only high school, Oak Park High School. **Examples of the manner in which local and state funds have improved the campus are the replacement of aging temporary classrooms with sustainable energy efficient award winning permanent sustainable and net zero energy consumption modular classroom buildings; modernization and upgrade to science labs; remodel of the administration and student support services building as well significant modernization and improvements to all classrooms, the Gym all sports fields and other campus support buildings.**

While these funds have proven to be beneficial to sustaining our school site and district initiatives, further repairs and improvements are necessary.

The table below shows completed projects over the past few years, as well as future needs funding estimates. The information is presented as part of our four pillars of needs: Campus Safety and Security, Replacement of Relocatable Buildings/Expansion to meet new District Curriculum Standards, Modernization and On Going Improvements and General Facilities Improvements and Repairs.

### Oak Park High School

Need	Projects Completed	Future Needs	Future Investment
<b>Campus Safety and Security</b>	Campus-wide fire alarm installation, security cameras and hardware upgrades, upgrade campus phone system	Upgrade security fencing and campus security monitoring  Increase security camera coverage and install access control door hardware	\$914,000
<b>Replacement of Relocatable Buildings/Expansion to meet new District Curriculum Standards</b>	Replacement of aging, temporary relocatable classrooms with permanent, energy efficient classrooms	Build Creativity and Innovation Space for student collaboration, and support of interdisciplinary and project based learning  Replace aging, temporary relocatable classrooms with permanent, energy sufficient classrooms	\$1,131,000
<b>Modernization and On Going Campus Improvements</b>	Modernization and upgrades to classroom buildings and athletic fields  Air conditioning system at Gym  Science Lab modernization and upgrades  Arts and shop classroom modernizations  Remodel and modernization of Administration and student services building	Reconfigure and modernize interior spaces to further support curriculum and student collaboration  Create 21 <sup>st</sup> Century Library Space  Replace additional HVAC systems with high efficiency systems, interior lighting with energy efficient LED and athletic equipment  Repair and replace failing site utility systems	\$9.896,000

Need	Projects Completed	Future Needs	Future Investment
	Roof replacement with energy sufficient reflective materials  Energy efficient HVAC upgrades	Replace and upgrade student / staff furnishings and instructional / curriculum equipment  Improvements and upgrades to community/joint use athletic fields, stadium and replacement of aging athletic equipment  Replace and upgrade student / staff furnishings and instructional / curriculum equipment	
<b>General Facilities Improvements and Repairs</b>	Classroom and student restroom upgrades  Upgrades to site accessibility, play areas and parking lot  Exterior building repairs and repainting	Improve drought tolerant landscape and irrigation, site utility systems and athletic turf areas	\$4,481,000

**TOTAL      \$16,422,000**

## Oak View High School and Oak Park Independent School

### Message from the Principal

Our vision for Oak View High School and Oak Park Independent School is to embrace the umbrella of alternative education and to use our sites to maximize options for students that the larger, more comprehensive schools cannot offer. We feel that alternative education is a positive route and that families should feel excited about being a part of something unique and specialized. Previously, these two schools were not on the same campus, both physically and in our vision. In the past few years, we have moved toward uniting ourselves physically to provide students with a truly alternative education. First and foremost, we have joined these two schools onto one campus, which allows staff and students to identify with a school and to increase the number of labs that are offered. Being smaller schools and being located next to the district office has also opened up opportunities for us technologically. The district often has turned to us to test out materials and programs, so it is very exciting to be a part of a school that is looking to the future consistently. Visually, we have painted the entire campus, replaced old carpet in the classrooms, purchased new furniture, added trees and cement walkways to create a comfortable setting, and revamped the softball field. All of these changes to beautifying our schools has created a campus in which everyone can be proud.

Keeping with our mission to explore options under alternative education, we have been able to create career pathways courses for students using a grant through Ventura County Innovates. This model allows us to show students various post-high school career options. We are looking forward to introducing more innovative programs for our alternative students in the future. We are in a world that is constantly changing and we are ready to keep in stride with the times and stay current in our curriculum and on the cutting edge of technology and facilities.

**from Principal Stew McGugan**

## Site Map

Oak View High School was built in 1985-1990. Below are key facts about the site.

Year School Built	1985-1990
Building Type	Continuation High School
Number of Students (as of March 10, 2016)	50
Number of Buildings / Units	Six Portable Classrooms / Office Buildings
Number of Stories	One Story
Type of Construction	Type V-NR
Building Area	3,840 Square Feet (960 Square Feet per unit)



### Estimated Cost of Plan Projects by Category

The funding generated from past bonds voted by the Oak Park community has allowed the district to complete substantial improvements to Oak View High School. Improvements to the school include classroom and student services upgrades and improvements and addition of expanded student restroom facilities.

The addition of the five-classroom Oak Park Independent School in 2014 was funded by the district’s general fund operating budget. This included refurbishing and repurposing five outdated portable classrooms from Oak Park High School and placing them on the Oak View campus. This movement further freed up instructional space at Red Oak Elementary that was formerly used for the Oak Park Independent School program.

While these funds have proven to be beneficial to sustaining our school site and district initiatives, further repairs and improvements are necessary.

The table below shows completed projects over the past few years, as well as future needs and funding estimates. The information is presented as part of our four pillars of needs: Campus Safety and Security, Replacement of Relocatable Buildings/Expansion to meet new District Curriculum Standards, Modernization and On Going Improvements and General Facilities Improvements and Repairs.

#### Oak View High School/Oak Park Independent School

Need	Projects Completed	Future Needs	Future Investment
<b>Campus Safety and Security</b>	Campus-wide fire alarm installation, security cameras and hardware upgrades, upgrade campus phone system	Upgrade security fencing and campus security monitoring  Increase security camera coverage and install access control door hardware	\$347,000
<b>Replacement of Relocatable Buildings/Expansion to meet new District Curriculum Standards</b>	Relocate and upgrade previous use classroom buildings to create a new 5 classroom campus for Oak Park Independent Studies	Replace aging, temporary relocatable classrooms with permanent, energy sufficient classrooms for Oak View HS and OPIS campus  Dedicated Creative and Innovation Space for student collaboration, and support of interdisciplinary and project based learning	\$3,771,000
<b>Modernization and On Going Campus Improvements</b>	Energy efficient HVAC upgrades  Classroom and student service upgrades and improvements  Addition of expanded student restroom facilities	Reconfigure and remodel administration area  Replace and upgrade student / staff furnishings and instructional / curriculum equipment  Replace additional HVAC systems with high efficiency systems, interior lighting with energy efficient LED and athletic equipment	\$558,000

Need	Projects Completed	Future Needs	Future Investment
<b>General Facilities Improvements and Repairs</b>	Upgrades to site accessibility, and parking lot Exterior building repairs and repainting Roof replacement with energy sufficient reflective materials	Ongoing maintenance and carpet replacements	\$959,000
<b>TOTAL</b>			<b>\$5,635,000</b>

## Fiscal Responsibility

From its very inception, the Oak Park USD has taken its obligation to manage its financial resources very seriously. The Board of Education's Moral Imperatives and Goals mandate that the district must operate with efficiency, effectiveness, integrity and transparency, and use resources fully toward our core mission to educate our students and maintain our employees while maintaining fiscal solvency. Historically, the district has successfully accomplished this goal through a variety of methods.

### Identifying and Securing Financial Resources

#### General Obligation Bonds

- 1) When the Oak Park community has authorized bonds, the district has worked to ensure utilization of the most cost effective bond financing options possible, and achieve the best balance of the bond amount issued vs. consideration of the tax burden on the community.
- 2) The district actively seeks out opportunities to reduce bond interest rates whenever possible. As an example, for the 2013 bond issuance for Measures R and C6, the district utilized Qualified School Construction Bonds, in which the interest payments on \$4.4 million worth of bonds was absorbed by the federal government rather than the Oak Park tax payers.
- 3) The district is also vigilant to take advantage of bond refinancing opportunities whenever possible to achieve lower interest rates for local taxpayers. This refinancing translates into lower debt service rates, without extending the bond repayment period. Since 2000, bond refinancing has saved Oak Park taxpayers an estimated \$1 million in bond repayments.

#### Alternative Funding Sources and Grants

As a matter of practice, the district aggressively seeks out alternative funding sources and additional financial resources before considering voter authorized general obligation bonds. This allows the District to extend and improve the quality of its bond projects, and to meet important Board and educational goals that might not otherwise have been possible.

- 1) The district was able to expand its recent facility improvements at Brookside Elementary School and Oak Park High School by applying for \$4.6 million from the State School Building Modernization program.
- 2) All of our schools will benefit from the district's application to the Proposition 39 Clean Energy Jobs Act program. This state program has provided the district with a \$900,000 grant, which will be used to upgrade older inefficient lighting systems on both the inside and outside of the classroom. The district has similarly taken advantage of incentive programs provided by the state and through Southern California Edison. These have resulted in energy audits, lighting upgrades, and emergency exit lighting systems, all at no cost to the district.
- 3) In a new state incentive program offered in 2014, the district is a charter member of the Ventura County Innovates consortia, grant recipients in the state's Career Technical Education Grant program. Under this initiative, the district is anticipating \$2-3 million dollars in grant funding for the development and implementation of career pathways for students in the areas of science, technology, engineering, the arts, and mathematics.

### Intelligent Project Planning with a Long-Range View

Once all financial sources have been identified and secured, the district works diligently to plan and implement projects that maximize the use of these precious resources with a long-range view and goal of achieving multiple objectives with the same dollar.

- 1) The district ensures top quality facilities at the best possible price through value engineering and competitive bidding.
- 2) In its most recent facility master plan, the district accelerated its project schedule during the recession to take advantage of lower construction costs.
- 3) The district has been aggressive in its upgrade to the use of highly energy efficient equipment to reduce on-going operational expense, thereby freeing up dollars to be directly spent on student education in the classroom. Examples include:
  - a. High efficiency HVAC equipment, providing a quiet, cost effective classroom learning environment, while reducing energy costs.
  - b. High efficiency lighting upgrades, improving classroom lighting while reducing energy costs.
  - c. Installation of “cool roof” systems that not only make classrooms water tight, but also increase the insulation “R” rating factor to reduce HVAC energy costs.
  - d. Upgraded door/window systems that simultaneously improve a classroom’s natural lighting, reduce its energy usage with improved insulation, and ensure classroom safety and security through upgraded lock systems.
- 4) The district ensures top quality technology infrastructure, networking, and equipment acquisition at the best possible price through great attention to quality, careful crafting of specifications, and competitive bidding.
- 5) The district has taken great care to specify and purchase quality technology equipment and systems, resulting in a longer-than-average useful life of 7 to 8 years, twice that of the 3-year standard of the business world.
- 6) The district’s use of higher quality systems and equipment requires fewer technology personnel for staff support and system maintenance, translating into more operational dollars spent on classroom instruction, and less on support personnel costs.
- 7) To maximize available resources, the district has also taken advantage of grants and discounts in connection with all of its technology projects. Wherever possible, Federal Communications Commission (FCC) E-Rate discounts are used, resulting in cost discounts of 20-40% for the purchase of applicable technology equipment, infrastructure, and services. For telecommunications and broadband services, the district has taken an additional 50% discount offered through the state’s Public Utilities Commission’s California Teleconnect Fund program.

As identified in the Board’s Moral Imperatives and Goals, the district will continue to relentlessly seek out and fully maximize resources toward its core mission: To educate our students with efficiency, effectiveness, and integrity, while maintaining fiscal responsibility and transparency throughout the district and to the community at large.

## Appendices

### Appendix A: Technology

The network infrastructure includes all of the network cabling and networking equipment such as switches, wireless access points, servers, network filtering and security appliances, and associated hardware. Each class of equipment is placed on a recurring replacement schedule based on a life expectancy of about 7-10 years:

Network Component	Life Expectancy	Approx. Cost
Fiber Optic Cabling	15 years	\$180,000
Copper Network Cabling	10-15 years	\$300,000
Network Switches	10 years	\$1,000,000
File Servers (including SANs)	6-7 years	\$200,000
Backup Storage (with offsite recovery)	5-6 years	\$200,000
Network Security Appliances	8 years	\$125,000
Web Content Filtering Appliance	4-6 years	\$60,000
Wireless Access Points	7-9 years	\$300,000
Security Camera System	10 years	\$350,000

The initial purchase of most of these infrastructure items were initiated in 2007 through the passage of Measure C6 and the replacement/refresh cycle times have been calculated using the expected life spans of each category of item.

A similar chart can be used to illustrate the computing devices that have been purchased to place technology into the hands of teachers and students since 2007.

Classroom Computing Device	Life Expectancy	Unit Cost (including warranty, software, peripherals, installation)
Desktop (iMac)	7-8 years	\$2000
Laptops (MacBooks)	3 years (teacher) 7 years (student)	\$2000
iPads	7-8 years	\$800
Chromebooks	4-5 years	\$400
Projectors (SmartBoard)	5-7 years	\$2000
Interactive Whiteboards	10-15 years	\$3500

Mapping out the refresh cycles for both network infrastructure and computing devices over the next 10 years provides a baseline for estimating the financial resources needed to maintain the existing level of classroom technology deployments.

School Year	Project
<b>2015-16</b>	HS Yearbook Lab (1/2 lab)
	Elem Mobile Devices LC expansion (LC per K-5 class+)
	Secondary Mobile Device carts expansions
	Refresh AD redundancy HA network controller server
	Content Filter Refresh (better Social Media support)
<b>2016-17</b>	Network Switches refresh (Cisco 3850)
	** Mobile Devices expansion (iPads/Chromebooks)
	MCMS Library iMac Refresh
<b>2017-18</b>	Network/File Servers Refresh (4)
	Teacher/staff iPad Refresh (240)
	** Mobile Devices expansion (iPads/Chromebooks)
	Remaining Wireless Build out (if needed)
<b>2018-19</b>	Chromebook Refresh (all HP/Dell are EOL) (1400)
	** 1st Gen iPads due to be replaced if no 1 to 1 (600)
	Student COW refresh (120)
<b>2019-2020</b>	Teacher Laptop Refresh (240)
	** Student iPad Refresh (300)
	Mobile Devices expansion (iPads/Chromebooks)
	Possible Backup Storage Refresh, if needed
<b>2020-21</b>	Refresh Storage SAN servers (2)
	New Internet Content Filter
	Refresh Teacher/staff iPads (240)
	Student iPad Refresh (300)
	MS Computer Lab - iMacs (56)
	HS Computer Science Lab - Workstations (37)
	HS Engineering Lab - Workstations (44)
<b>2021-22</b>	New Internet Content Filter
	Potential SmartBoard refresh cycle begins (60)
	HS Graphic Arts Lab - iMacs (37)
	HS Foreign Language - Desktops Lab (37)

School Year	Project
	ES Computer Labs x3 - iMacs (108), if needed
	HS Yearbook/Journalism lab - iMacs (24)
	Office Desktops - iMacs (40 iMacs)
<b>2022-23</b>	SmartBoard Refresh (40)
	Refresh of Windows Servers
	New classroom network cabling
	New Fiber Optic network cabling
<b>2023-24</b>	SmartBoard Refresh (30)
	New Firewall
	Refresh of Network Switches (Wireless/Sec Cam)
	New Wireless Network
	Teacher Laptop Refresh (240)
<b>2024-25</b>	SmartBoard Refresh (30)
	New Security Camera System
	MS Library Lab - Desktops (37) (if needed)
	Chromebook Refresh (2000)
	Student iPad Refresh (900)
<b>2025-26</b>	SmartBoard Refresh (30)
	Refresh of Network Switches (Classrooms)
	Refresh of Storage SAN servers (2)
	New Internet Content Filter
	Student iPad Refresh (300)
	Teacher iPad Refresh (240)

The approximate cost of executing the above listed technology refresh cycles over the 10-year period 2016-2026 is \$11,500,000. If we put in a placeholder budget item of \$1,500,000 for mobile device expansion and \$500,000 for growth and sustaining of new Career Technical Education STEAM initiatives and an estimated \$300,000 for projector replacements, the grand total comes to roughly \$13,800,000. We recognize that Technology involves a rapidly changing landscape and that these rough estimates do not take into account unforeseen growth, new technologies, or shifts in the ways technologies are used. This plan also does not accommodate the on-going need for acquisition and refresh of a district wide 1-to-1 mobile computing device initiative, although it does lay a strong foundation and bring the district significantly forward in being closer to fielding such an initiative.

Appendix B: Enrollment Projections

OAK PARK UNIFIED SCHOOL DISTRICT

Table 1 – Projected District Enrollment 2015-2024

School	2014-15 Enrolled *	2015-16 Projected	2016-17 Projected	2017-18 § Projected	2018-19 Projected	2019-20 Projected	2020-21 Projected	2021-22 Projected	2022-23 Projected	2023-24 Projected
Brookside	622	610	586	565	565	565	565	565	565	565
Oak Hills	521	518	507	495	495	495	495	495	495	495
Red Oak	644	602	615	597	597	565	565	565	565	565
Medea Creek	1127	1105	1105	1085	1085	1085	1085	1085	1085	1085
Oak Park HS	1512	1520	1520	1520	1520	1520	1520	1520	1520	1520
Oak View HS	41	40	40	40	40	40	40	40	40	40
OPIS	233	250	250	250	250	250	250	250	250	250
NPS	1	1	1	1	1	1	1	1	1	1
Totals	4701	4646	4624	4553	4553	4521	4521	4521	4521	4521
Growth	0.7%	-1.2%	-0.5%	-1.5%	0%	-0.7%	0%	0%	0%	0%

(\*) Enrolled as of 4/17/2015

(§) Year in which 24-1 class size fully implemented for grades K-3

**Assumptions for Enrollment Projections:**

1. The District of Choice program is renewed by the state in 2017 and continues through the 2023-24 School Year.
2. The programs offered by Oak Park Unified continue to be attractive options for the surrounding communities.
3. The DOC program attracts enough applications each year at the selected grade levels where our vacancies exist.
4. There is a modest annual growth rate of 1% in resident enrollment allowing for a gradual decrease in the number of inter-district students accepted through the District of Choice program.
5. Enrollment at elementary school sites based on 98.5% of capacity using number of rooms at each grade level.
6. The number of classrooms used for general instructional use remains at the current levels for each site. No new classrooms are required to accommodate the projected enrollment.
7. The pre-school continues to operate on the Oak Hills campus.
8. Class sizes in grade DK will be targeted at 22 and class sizes for grades K-3 will be targeted at 24.
9. Class sizes in grades 4-5 will be targeted at 32 for each elementary school site.
10. Class sizes in grades 6-8 will be targeted at 32 for academic/elective classes and 45 for PE and music classes.
11. Class sizes in grades 9-12 will be targeted at 34 for academic/elective classes and 45 for PE and music classes.
12. Class sizes at Oak View will be targeted at 17-1 and class size for the Oak Park Independent study program will be targeted at 28-1.
13. The Oak Park Independent School program will grow slightly (about 20 students) over next few years and then maintain that enrollment.
14. The enrollment will gradually decline (primarily based on the reduction in class size at grades K-3) until 2019-20 when it will level off at around 4520 students.
15. By 2017-18 we will have 45 DK-3 classes at the three elementary sites. The reduction of 4 students each (from 28-1 to 24-1) accounts for the majority of the 180-student decline in the overall district enrollment between 2015 and 2024.
16. After 2018-19 the number of inter-districts required to fill in vacant seats will primarily be in grade 1 at Red Oak and Brookside, grade 4 at Oak Hills and grade 6 at Medea Creek. The number of resident Kindergarten students will determine how many new inter-district kindergarten students will be accepted.



## OAK PARK UNIFIED SCHOOL DISTRICT

155 kW Solar Systems at Oak Park High School, Oak Park, CA

449 solar panels were installed to create a 147 kW PV system at the picturesque campus located in Ventura County, CA.

SK Solar designed a system that included 2 separate arrays. One array was mounted on the rooftops of newly built classrooms made from modified shipping containers. The other array utilizes solar shade structures offering a dual purpose to Oak Park High School. It provides green energy at a fixed cost and shade to the student body during their breaks on campus.

Energy savings for the district amount to a minimum of \$12,000 per year and will exceed \$400,000 over the lifespan of the system.



## CASE STUDY IN SCHOOL DISTRICT APPLICATION OF SOLAR ENERGY



“We are very pleased to have been able to partner with Oak Park School District to help them achieve significant energy savings over many years to come. Through a collaborative effort a system was designed that surpassed original expectations making the project a success for all parties involved.”

**Boris von Bormann – CEO SK Solar**

### OVERVIEW

**Location:**  
Oak Par, CA

**Facility Energy cost offs:**  
15% annually

**Design & Installation**  
SK Solar, Inc.

**Construction Partners:**  
Baja Construction  
Growth Point

### SPECS

**System Size:**  
147 kw DC

**Shade Structure**  
Providing shade for student population on campus

**Array GrowthPoint**  
Net Zero class rooms



**Technical Details of Solar PV system:**

449 Sunpower E20 327W modules, total 147kW  
 Array Shade Structure:  
 Azimuth 180°, 7° tilt, 273 modules = 89kW DC  
 Array GrowthPoint:  
 Azimuth 180°, 5° tilt, 176 modules = 58kW DC  
 4 Solectria PVI 28TL inverters  
 2 Solectria PVI 20TL inverters

**Production Details of Solar PV system:**

Annual Production: 233 kWh  
 See details below

**Energy Bill Estimate**

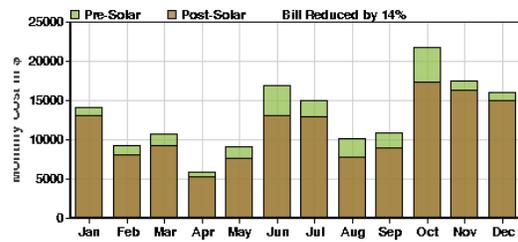
The following energy bill estimate is without any tax effects applied.

(kWh)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
SCE Usage without Solar	75.1k	83.0k	88.0k	10.2k	72.0k	79.6k	84.8k	58.8k	56.9k	112k	97.6k	87.0k	905k
Solar Production	12.2k	14.7k	19.4k	22.0k	25.5k	25.2k	26.9k	25.7k	19.6k	17.0k	13.1k	11.5k	233k
SCE Usage with Solar	62.9k	68.2k	68.6k	-11.9k	46.5k	54.4k	57.8k	33.2k	37.3k	94.8k	84.5k	75.4k	672k

(Cost)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
SCE Bill without Solar*	\$14.2k	\$9,295	\$10.7k	\$5,933	\$9,125	\$16.9k	\$15.0k	\$10.1k	\$10.9k	\$21.8k	\$17.6k	\$16.1k	\$157k
SCE Bill with Solar*	\$13.1k	\$8,053	\$9,280	\$5,332	\$7,587	\$13.1k	\$13.0k	\$7,787	\$9,008	\$17.3k	\$16.3k	\$15.0k	\$135k
Annual Excess Credit	Credit for excess electricity generated (month of credit depends on interconnect date)												-\$610
SCE Bill Savings	\$1,042	\$1,242	\$1,440	\$601	\$1,538	\$3,835	\$1,993	\$2,298	\$1,842	\$4,447	\$1,297	\$1,706	\$23.3k

**Monthly Electricity Bill Savings**



**Average Monthly Savings by Tier**

AUTHORIZED SOLARWORLD™ INSTALLER

www.sksolar-usa.com  
 888-521-0007



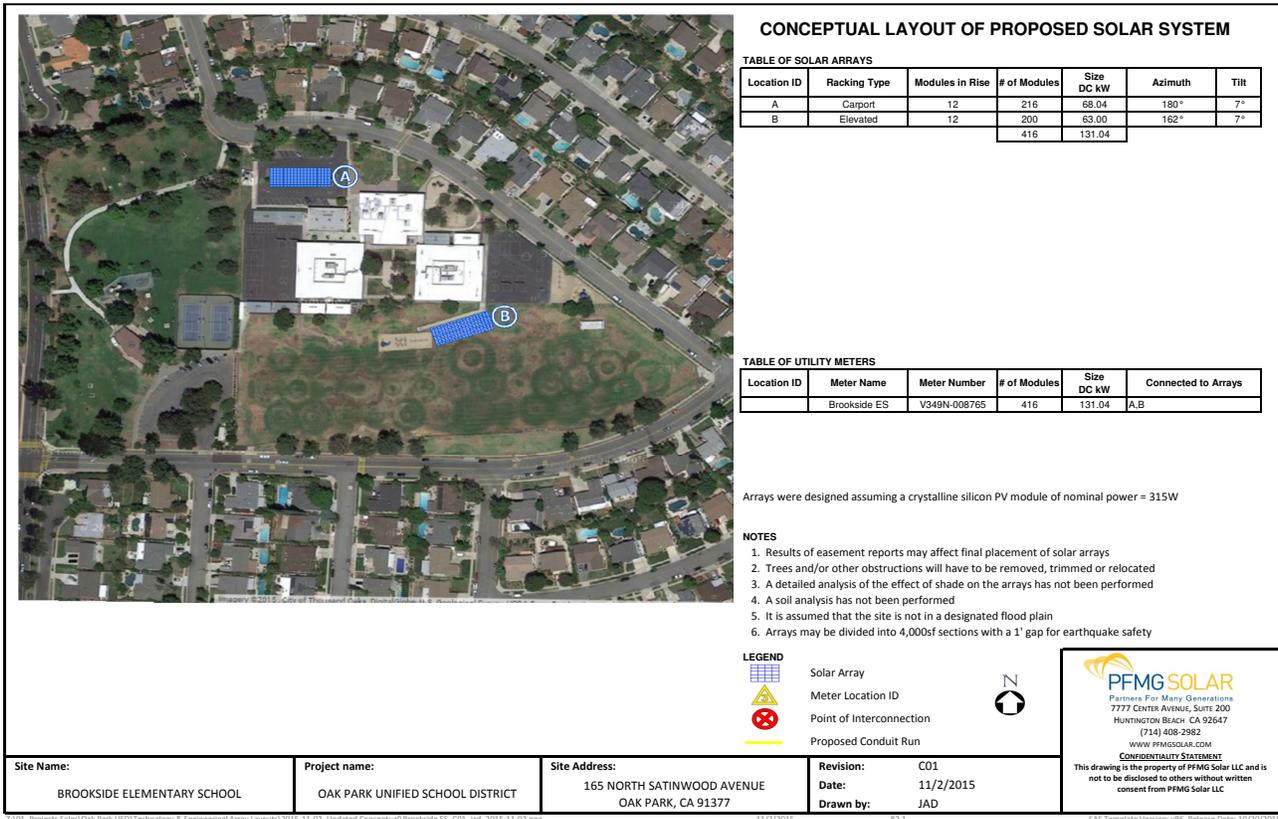
## ABOUT SK SOLAR

Founded in 2003, SK Solar has designed and installed over 100MW of solar systems internationally. Building on the company's experience in wind and hydro power, SK Solar has been helping customers be more successful by offering technologies that improve solar production and systems that deliver long-term financial benefits. SK Solar provides homeowners in the residential market as well as business owners in the commercial segment with viable options to save money on their electric bills as well as define the right energy strategy for the long-term. For more information visit [www.sksolar-usa.com](http://www.sksolar-usa.com) and connect with us on Facebook.

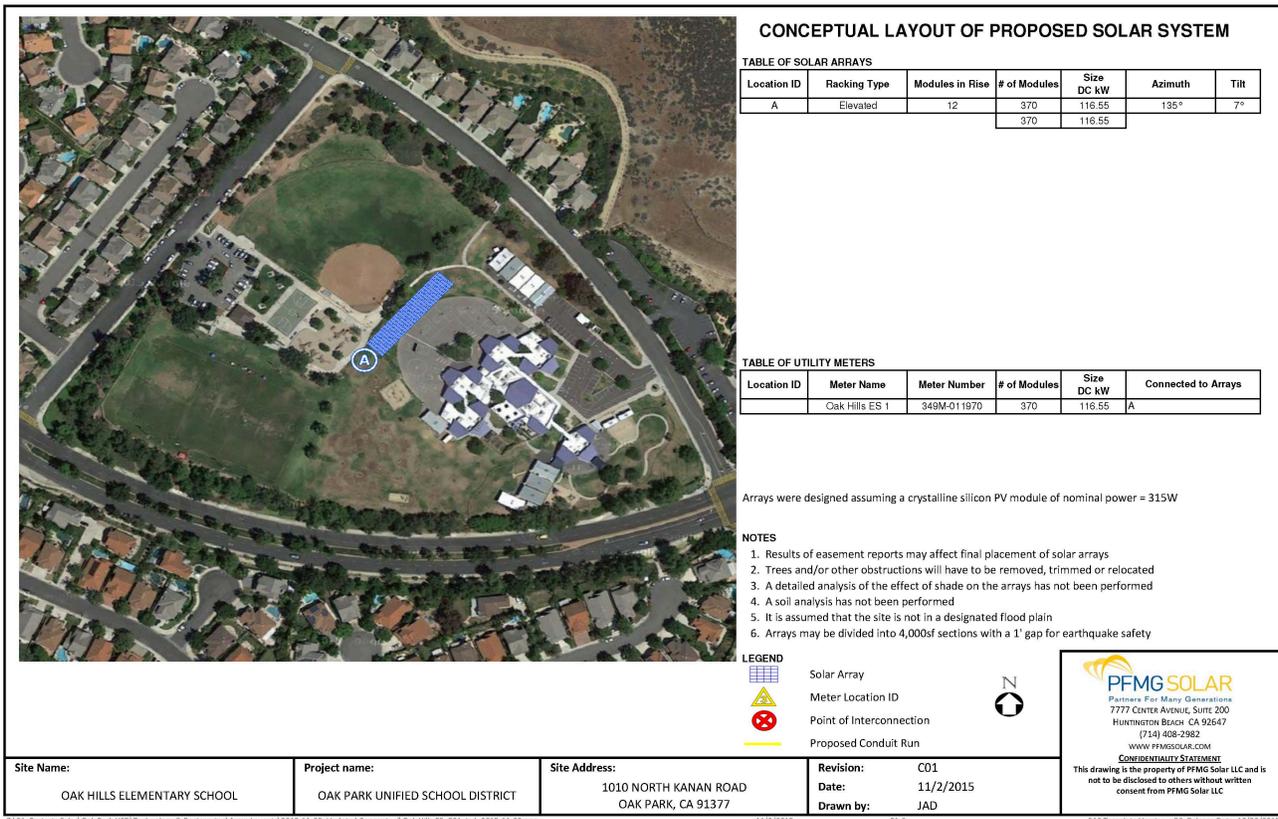
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AUTHORIZED SOLARWORLD™ INSTALLER

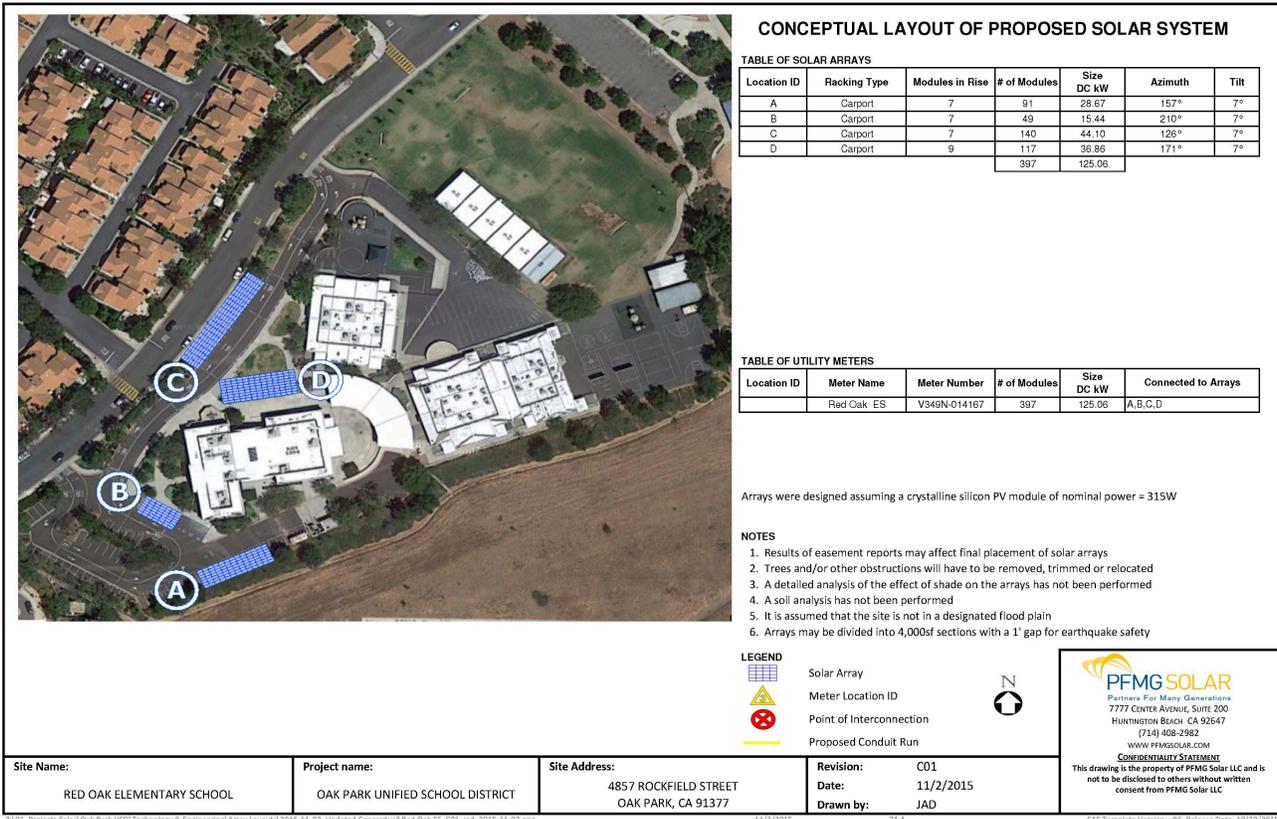
[www.sksolar-usa.com](http://www.sksolar-usa.com)  
888-521-0007



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**CONCEPTUAL LAYOUT OF PROPOSED SOLAR SYSTEM**

**TABLE OF SOLAR ARRAYS**

Location ID	Racking Type	Modules in Rise	# of Modules	Size DC kW	Azimuth	Tilt
A	Carport	7	91	28.67	157°	7°
B	Carport	7	49	15.44	210°	7°
C	Carport	7	140	44.10	126°	7°
D	Carport	9	117	36.86	171°	7°
			397	125.06		

**TABLE OF UTILITY METERS**

Location ID	Meter Name	Meter Number	# of Modules	Size DC kW	Connected to Arrays
	Red Oak ES	V349N-014167	397	125.06	A,B,C,D

Arrays were designed assuming a crystalline silicon PV module of nominal power = 315W

**NOTES**

1. Results of easement reports may affect final placement of solar arrays
2. Trees and/or other obstructions will have to be removed, trimmed or relocated
3. A detailed analysis of the effect of shade on the arrays has not been performed
4. A soil analysis has not been performed
5. It is assumed that the site is not in a designated flood plain
6. Arrays may be divided into 4,000sf sections with a 1' gap for earthquake safety

**LEGEND**

- Solar Array
- Meter Location ID
- Point of Interconnection
- Proposed Conduit Run



**CONFIDENTIALITY STATEMENT**  
This drawing is the property of PFMG Solar LLC and is not to be disclosed to others without written consent from PFMG Solar LLC

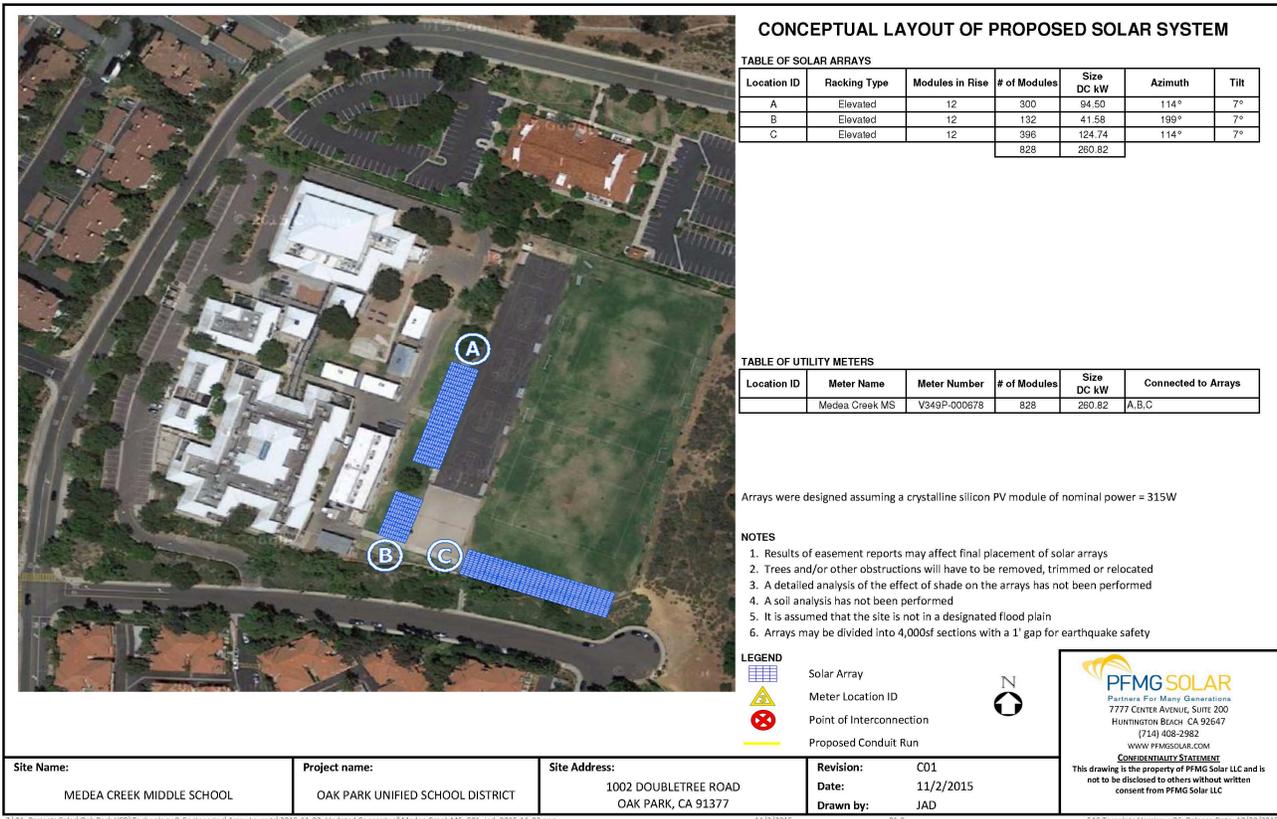
<b>Site Name:</b> RED OAK ELEMENTARY SCHOOL	<b>Project name:</b> OAK PARK UNIFIED SCHOOL DISTRICT	<b>Site Address:</b> 4857 ROCKFIELD STREET OAK PARK, CA 91377	<b>Revision:</b> C01	<b>Date:</b> 11/2/2015
			<b>Drawn by:</b> JAD	

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**CONCEPTUAL LAYOUT OF PROPOSED SOLAR SYSTEM**

**TABLE OF SOLAR ARRAYS**

Location ID	Racking Type	Modules in Rise	# of Modules	Size DC kW	Azimuth	Tilt
A	Elevated	12	300	94.50	114°	7°
B	Elevated	12	132	41.58	199°	7°
C	Elevated	12	396	124.74	114°	7°
			828	260.82		

**TABLE OF UTILITY METERS**

Location ID	Meter Name	Meter Number	# of Modules	Size DC kW	Connected to Arrays
	Medea Creek MS	V349P-000678	828	260.82	A,B,C

Arrays were designed assuming a crystalline silicon PV module of nominal power = 315W

**NOTES**

1. Results of easement reports may affect final placement of solar arrays
2. Trees and/or other obstructions will have to be removed, trimmed or relocated
3. A detailed analysis of the effect of shade on the arrays has not been performed
4. A soil analysis has not been performed
5. It is assumed that the site is not in a designated flood plain
6. Arrays may be divided into 4,000sf sections with a 1' gap for earthquake safety

**LEGEND**

- Solar Array
- Meter Location ID
- Point of Interconnection
- Proposed Conduit Run



**CONFIDENTIALITY STATEMENT**  
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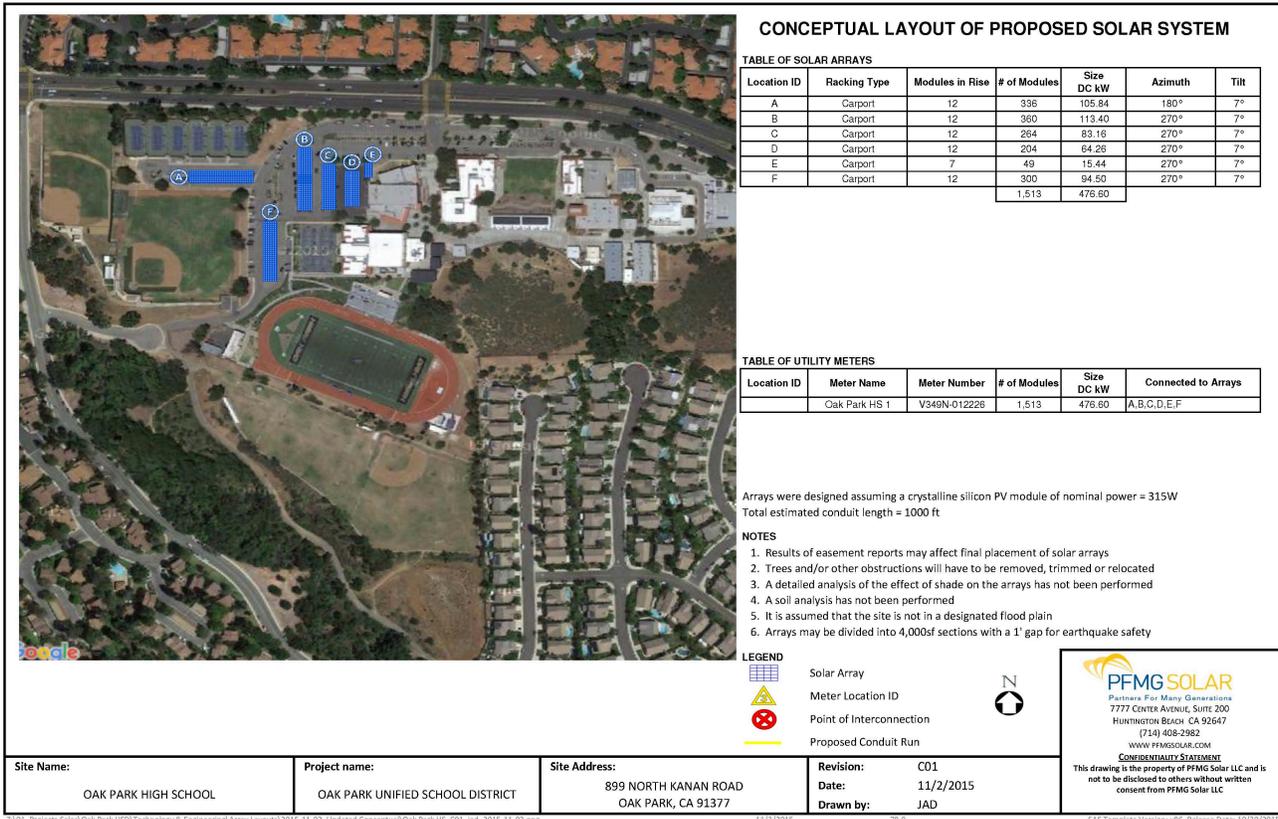
<b>Site Name:</b> MEDEA CREEK MIDDLE SCHOOL	<b>Project name:</b> OAK PARK UNIFIED SCHOOL DISTRICT	<b>Site Address:</b> 1002 DOUBLETREE ROAD OAK PARK, CA 91377	<b>Revision:</b> C01	<b>Date:</b> 11/2/2015
			<b>Drawn by:</b> JAD	

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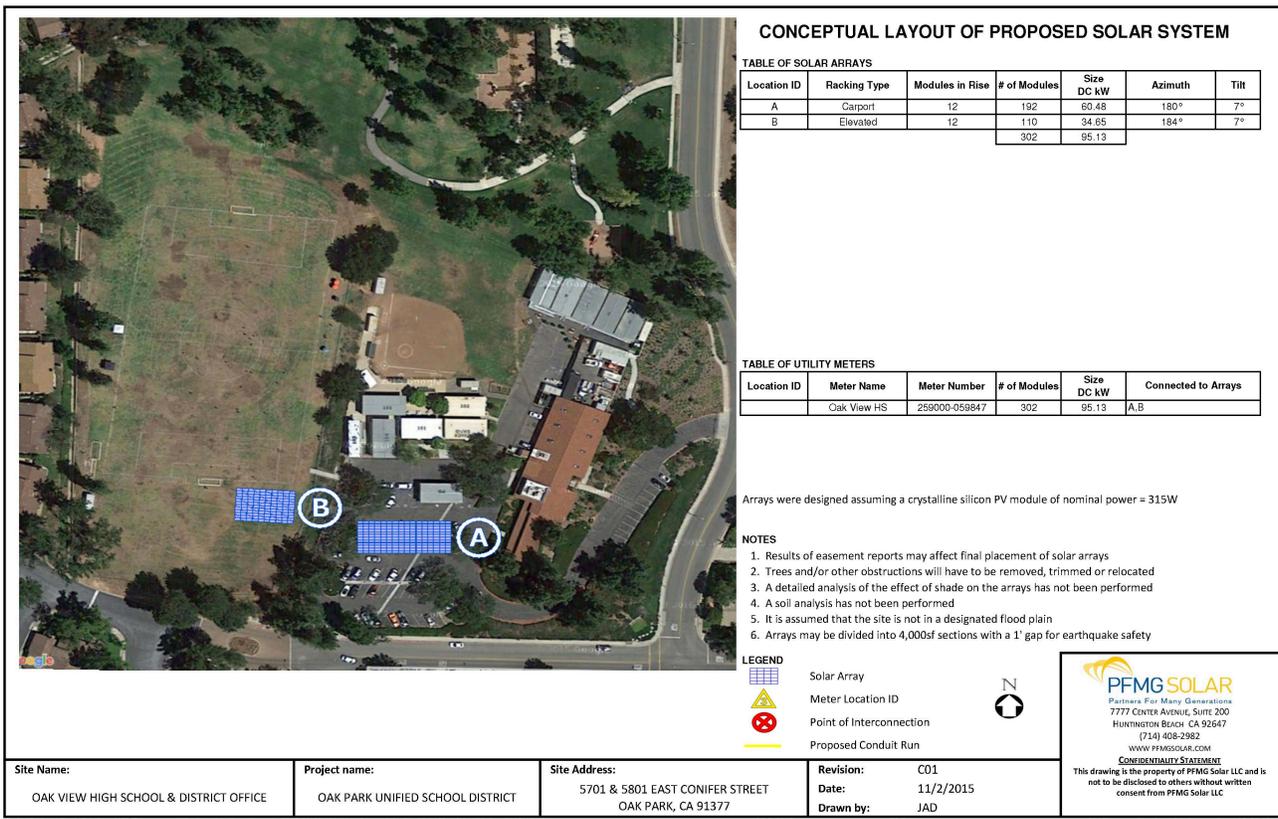


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