

**PASADENA UNIFIED SCHOOL DISTRICT
Pasadena, California**



**FACILITIES AND CAPITAL PROJECTS COMMITTEE*
NOTICE AND AGENDA**

April 19, 2022

6:30 p.m.

**Board Room, Room 236
351 S. HUDSON AVENUE
PASADENA, CA. 91101**

A. CALL TO ORDER
B. PUBLIC COMMENT
C. DISCUSSION ITEMS <ol style="list-style-type: none">1. Presentation by Schneider Electric2. Summer Projects for 2022 and Beyond3. COC Update
D. ADJOURNMENT
E. FUTURE AGENDA ITEMS

***Committees are advisory to the board and not decision-making bodies.**

Future Meetings Dates

5/17/22
6/14/22**
7/19/22
8/16/22
9/13/22**
10/18/22
11/8/22**
12/20/22

All meetings are to be held on the third Tuesday of the month, except on the dates marked with “**”.



Pasadena USD Water Conservation Initiative

Sohinee Oswal

Matthew Walker

Life Is On



Agenda

- 1 **About Schneider Electric**
- 2 **Prior work with PUSD**
- 3 **PUSD's Vision for Success**
- 4 **Project Opportunities**
- 5 **Project Impact Overview**
- 6 **Next Steps**

About Schneider Electric

WHO WE ARE

Completed multi-phase projects with over 30 districts throughout CA, including PUSD!

Secured \$500M in Grants/Rebates for our clients



References

- Conejo Valley USD (Phase 3)
- Hacienda La Puente USD (Phase 4)
- Pasadena USD (Phase 3)
- Santa Monica Malibu USD
- Norwalk La Mirada USD (Phase 2)
- Charter Oak USD (Phase 2)
- Montebello USD

Prior work with Pasadena USD

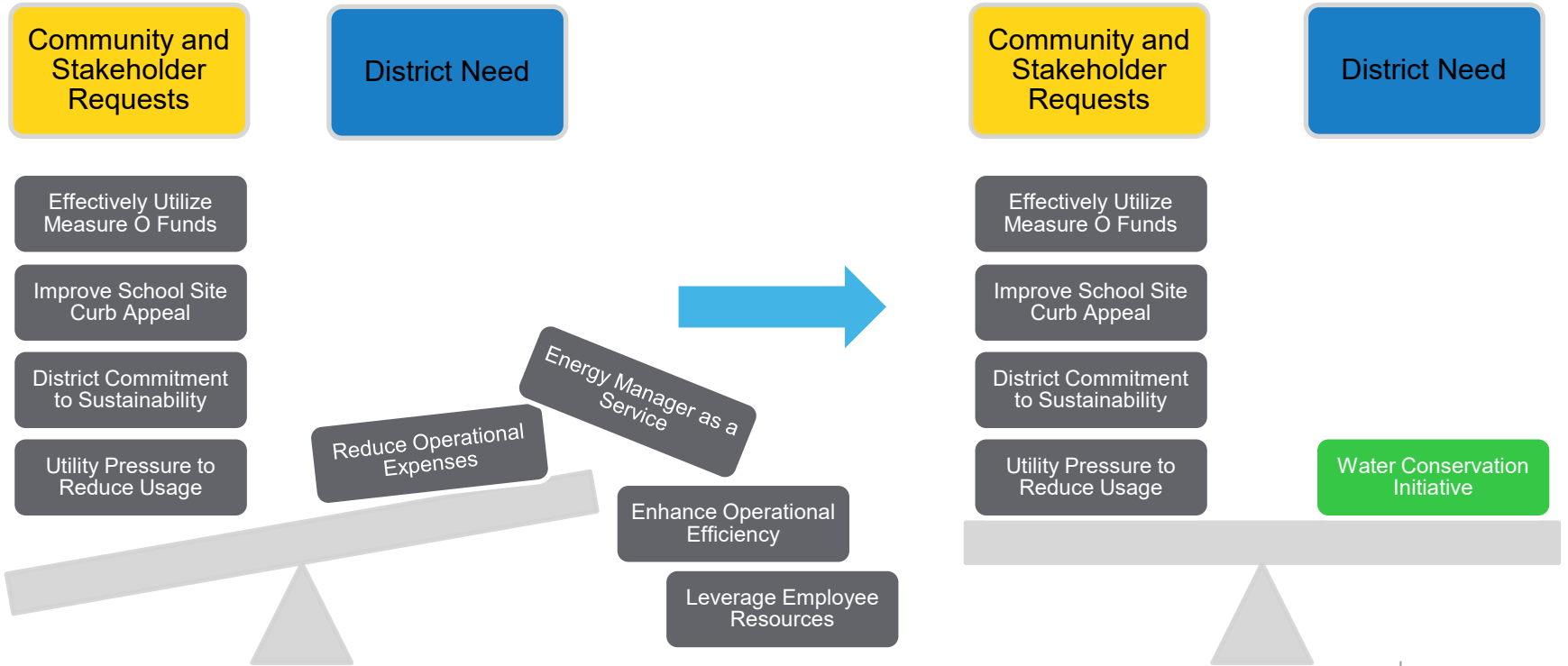
Schneider Electric began a partnership with PUSD in 2016 to complete Prop 39 work

Schneider Electric and PUSD continued to partner on facilities improvements, improving comfort and conserving energy use across the District

Schneider Electric and PUSD began investigating an initiative to conserve water and reduce utility bills in September of 2021

PUSD's Vision for Success

Achieving **balance** through aligning community requests and District needs



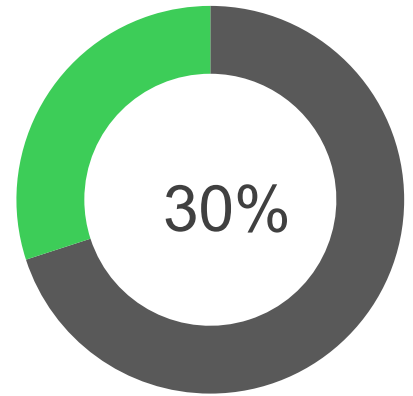
Opportunities to Enable PUSD's Vision



Opportunity:

Drive District Efficiencies

- \$869K - Current District Annual Water Spend
- 8 sites equate to ~63% of district total usage (\$550,676)
- Standardize District water related operations - embrace best practices
- Implement proven energy conservation measures



Opportunity:

Maximize Funding

- Leverage Measure O to provide budgetary relief
- Spread funds across many District sites to embrace equity
- Capture rebates to offset District investment
- Eliminate future capital expenses



Opportunity:

Enhance Curb Appeal & Address Deferred Maintenance

- Improve campus aesthetics and community sense of pride
- Leverage smart technology to effectively utilize resources
- Proactively address facility infrastructure and maintenance need
- Increase standardization across M&O



Opportunity:

Community Engagement

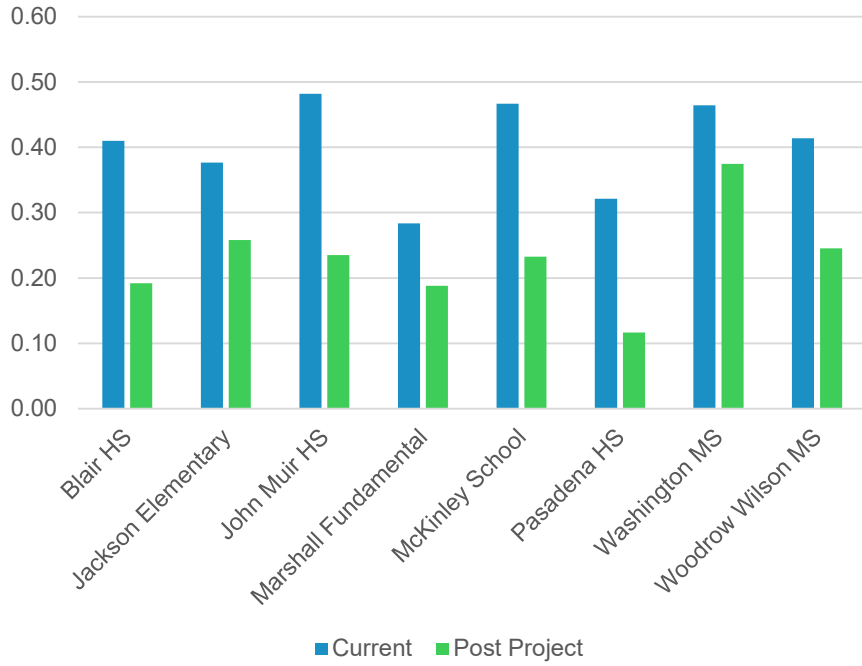
- Spread message of District's renewed commitment to sustainability
- Communicate financial stewardship and strategic use of Measure O funds
- Produce custom messaging and marketing materials
- Show PUSD is investing in their sites and community



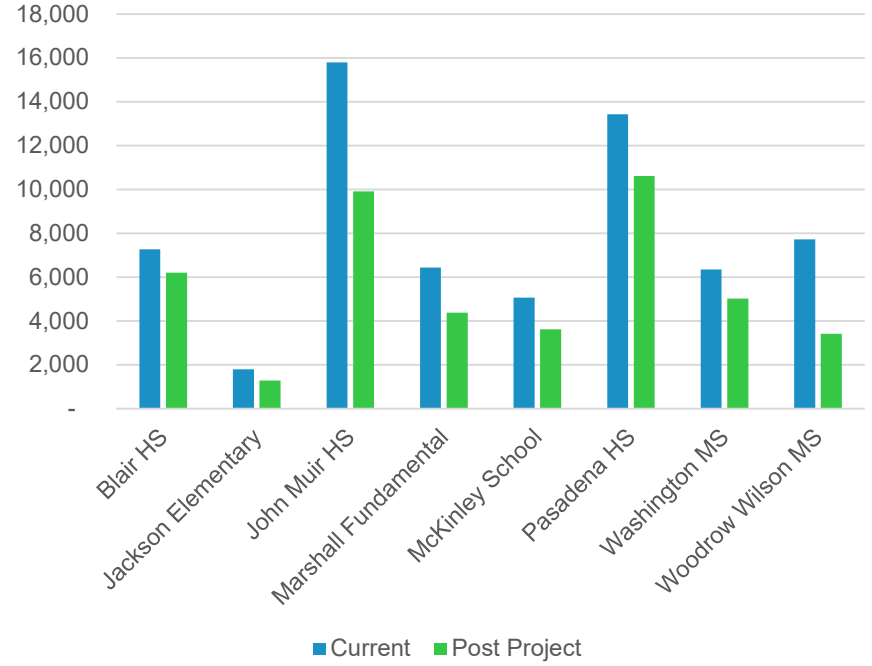
Project Energy Impact

Savings that produce results and advance PUSD's vision

Current vs Post Project \$/ft²



Current vs Post Project kGal



Project Energy Impact

Savings that produce results and advance PUSD's vision

Total Gallons Saved Annually:

19,406,027

Environmental Benefits



29

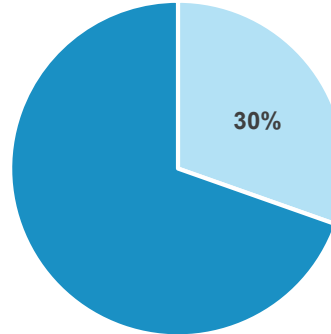
Equivalent Olympic Sized Pools



12,128,767

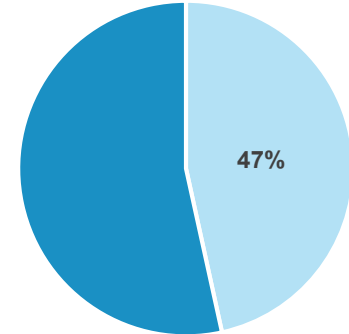
Equivalent Toilets Flushed

kGal Reduction



■ Savings ■ Post

Cost Reduction



■ Savings ■ Post

Water Conservation Scope Items

A pathway to address all opportunities and capture savings

Site	 Centralized Smart Irrigation	 Plumbing Fixture Upgrades	Kitchen Equip Upgrades	Cooling Tower Water Treatment	 Pool Water Treatment	Curb Appeal / Beautification	 Water Meter Optimization
Blair High	✓	✓	✓		✓		✓
Jackson Elementary	✓	✓	✓				
John Muir High	✓	✓	✓	✓	✓		✓
Marshall Fundamental	✓	✓	✓			✓	
McKinley	✓	✓	✓	✓		✓	✓
Pasadena High	✓	✓	✓	✓	✓	✓	
Washington Middle	✓	✓	✓			✓	✓
Woodrow Wilson Middle	✓	✓	✓			✓	✓

 = Key/High Impact Project Scope

Project Financial Overview

Savings that can be reinvested back into the District

Total First Year Water Savings:

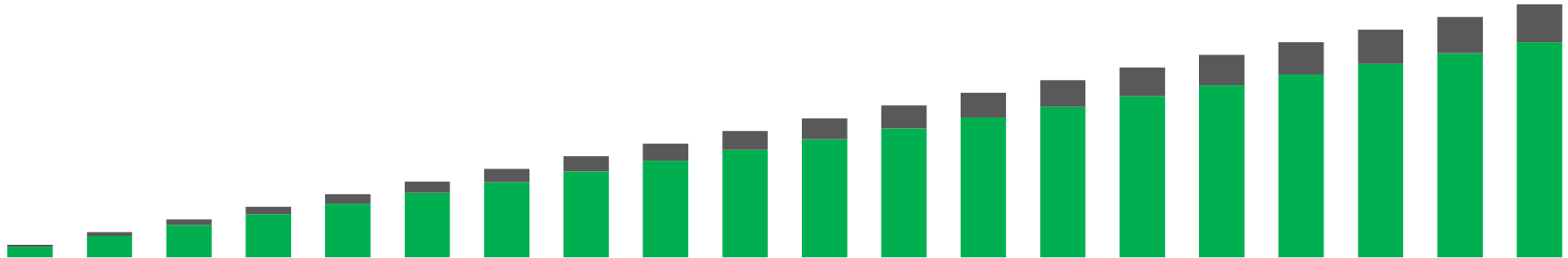
\$208,000 - \$248,000

Estimated Project Capital Required:

\$3,560,000 – \$5,540,000

Total Project Lifecycle (20 years) Savings:

\$5,053,000 - \$6,025,000



Project Next Steps

MILESTONE	START
Schneider presents “Business Case” Report to PUSD	January 2022
Schneider presents to PUSD Facilities Committee	April 2022
PUSD selects Schneider; Approves Design-Build Contract	April 2022
Schneider begins Project Design	May 2022
PUSD posts 2-week GC 4217 Public Notice	August 2022
PUSD approves project to move into construction	August 2022

Life Is On

Schneider
Electric

Capital Improvement Projects List

Date: 4/6/22

PHASE	BID No.	CAMPUS	PROJECT NAME/DESCRIPTION	PM	FUNDING SOURCE	BUDGET	BUDGET ADJMT	CHANGE ORDERS	BOARD APPV'L	DSA	NTP	COMP	NOC	UPDATE	
1	Planning	--	Altadena	Altadena Solar Panel Relocation: Existing solar panels too close to neighbors, reviewing alternative areas to relocate solar panels.	Don	--	\$500,000	none	none	Pending	Pending	YTD	YTD	YTD	CSI is preparing constructability report of new locations and anticipated timeline.
2	Procurement	--	Altadena	Altadena Portable Relocation: Relocation of two existing portables from Allendale to Altadean.	Sam	TT -21.1	\$500,000	none	none	4/28/22	Appv'd	6/6/22	YTD	YTD	Post-Bid interviews completed; moving forward with the apparent low bidder, Shenk \$242K
3	Closeout	--	Pasadena HS	PHS Chiller: Remove and replace existing chillers and cooling tower, (2) 600 ton, (2) 900 ton	Sam	TT -21.1	\$3,656,694	none	\$33,354	--	Appv'd	--	YTD	YTD	Final CO going to Board in April. Pending: CO, NOC, and Release of Retention
4	Closeout	--	Pasadena HS	PHS Restrooms: Renovation of boys, girls and staff restrooms.	Sam	TT -21.1	\$888,123	none	-\$55,117	--	11/9/22	--	YTD	YTD	Board item on HOLD; until internal budget audit is completed. Pending: Board acceptance, NOC, and release of retention
HVAC Upgrades: (6) Sites															
7	Construction	N/A	San Rafael	HVAC Upgrades: Six (6) Bard units replacements at South Bungalows	Don	ESSER	\$103,109	none	none	10/28/21	N/A	Spring	--	--	Construction started on 4/1; field verification is underway, work to be completed by 4/8.
6	Construction (Buy-Out)	N/A	Eliot MS	HVAC Upgrades: One (1) 170 Ton chiller replacement and mech yard	Don	ESSER	\$369,757	none	none	5/22/22	N/A	Winter	--	--	New application to be submitted to CDE; procurement of equipment is underway work to be performed during winter break.
7	Construction (Buy-Out)	N/A	McKinley	HVAC Upgrades: VRF installation at Library	Don	ESSER	\$293,835	none	none	10/28/21	N/A	Winter	--	--	Anticipated NTP changed from Sprint to Winter due to delays in procurement of new equipment. Done to document delay with Contractor
8	HOLD	N/A	Altadena	HVAC Upgrades: Central Plant Upgrade	Don	ESSER	YTD	none	none	YTD	N/A	YTD	YTD	YTD	Scope is more complex than anticipated; on hold pending DLR assessment
9	HOLD	N/A	Sierra Madre	HVAC Upgrades: Central Plant Upgrade	Don	ESSER	YTD	none	none	YTD	N/A	YTD	YTD	YTD	Scope is more complex than anticipated; on hold pending DLR assessment
10	Closeout	--	Eliot MS	Eliot Bard Units: Remove and Replace (6) Surface Mounted Bard Units at Bldg. C	Don	ESSER	\$109,794	none	none	10/28/21	N/A	--	--	--	Update: PO package was submitted 4/1/22. Work has been completed, Don to finalize procurement documentation and closeout
Shade Structures: (6) Sites															
11	Planning	YTD	All ES	Shaded structures over play grounds/structures Proposed Locations: Don Benito ES, San Rafael ES, Webster ES, Field ES, Longfellow ES, Hamilton ES	Don	21.3	\$2,113,845	none	none	1/28/22	YTD	YTD	YTD	YTD	SWCM to reach out to Arch Pool to get proposals
Roofing Projects: (11) Sites															
12	Bidding	YTD	Districtwide	Roofing Renovations: Eleven (11) sites for summer 2022 and nine (9) sites for 2023. Sequencing based on worst conditions.	Don	21.3	\$21,667,228	none	none	YTD	N/A	YTD	YTD	YTD	SWCM to procure construction services with (2) vendors and to move budgeting and planning
Playground Upgrades (Donation of Equipment)															
13	Planning	YTD	Hamilton ES	New Playground Equipment: Installation of donated playground equipment											This project was added to list on 4/1
ITS Projects															
14	Bid Phase	N/A	Washington MS	PA Enhancements: Programing and install of new PA speakers at Gymnasium and Bldg A	Joel	21.3	\$73,000	none	none	3/24/22	N/A	April	YTD	YTD	PO request to be moved forward; meeting with Principal scheduled for Monday, post-bomb-threat

Campus	Buildings	Contractor	Area	Roof Type	Measurement	Size	Recommendation	Estimate	Needs HVAC	Measure TT Expenditures at School (per 2/15/22 COC Mtg Min)	Notes/Work order numbers
Jefferson CC	1	Western States	Bungalows (High Priority)	Modified Bitumen	Square Foot	6,298	Replace	\$130,998.40	Yes	\$4,984,238.00	Top priority
Marshall	1	Best Contracting	Bldg. C Library, Music	Built Up Roof (BUR)	Square Foot	14,600	Replace	\$370,000.00	Yes	\$19,349,240.00	W/O 323, 173, Library needs new skylights
	1	Best Contracting	Bldg D, Old Gym, Dance Rm.	Gravel Surface BUR	Square Foot	19,000	Replace	\$470,965.00	Yes		W/O 289, 202, Current needs assessment replaces this building
	1	Best Contracting	Bldg E, Kitchen	Gravel Surface BUR	Square Foot	6,000	Replace	\$169,980.00	Yes		W/O 229, Current needs assessment replaces this building
Webster	1	Western States	Bldg. A East wing	Gravel Surface BUR	Square Foot	15,296	Replace	\$306,138.80	Yes	\$2,473,471.00	W/O 290, 291
	1	Western States	Portable Bldg. B6 Center	Built Up Roof (BUR)	Square Foot	1,152	Replace	\$23,961.60	No		uncertified; NO A# - SERIAL # 18288 & 18289 - Current needs assessment replaces this building
	1	Western States	Portable Bldg. B7 Southmost	Built Up Roof (BUR)	Square Foot	1,152	Replace	\$23,961.60	No		uncertified; NO A# - SERIAL # 18286 & 18287 - Current needs assessment replaces this building
	1	Western States	Portable Bldg. B8 North west (Sycamore)	Metal	Square Foot	1,152	Replace	\$23,961.60	No		uncertified; NO area 03 A# - SERIAL # 43196 & 43197 - San Diego A#04-101749 - Current needs assessment replaces this building
Madison	1	Western States	Bldg. A, Admin, Classrooms MPR	Built Up Roof (BUR)	Square Foot	29,946	Replace	\$627,202.80	Yes	\$5,969,957.00	#REF!
	1	Western States	Bldg. B, Kitchen Cafeteria	Built Up Roof (BUR)	Square Foot	6,356	Replace	\$145,850.04	Yes		includes canopy- north side
McKinley School	1	Best Contracting	Bldg. A Main building BUR and Tile	Built Up Roof (BUR) / Tile	Square Foot	50,455	Replace	\$1,204,472.50	Yes	\$21,227,578.00	Tile roof repair is included but optional, original tile is 100 years old and not available
	1	Best Contracting	Bldg. B Kinder Wing	Gravel Surface BUR	Square Foot	17,500	Replace	\$433,330.00	No		Tile roof repair is included but optional, original tile is 100 years old and not available
	1	Best Contracting	Bldg. C Library and Tile roof	Built Up Roof (BUR) / Tile	Square Foot	8,951	Replace	\$195,424.00	No		Tile roof repair is included but optional, original tile is 100 years old and not available
Muir High School	1	Best Contracting	Bldg. A, Classrooms / admin	Built Up Roof/Shingle	Square Foot	42,000	Replace	\$1,041,950.00	Yes	\$38,231,852.00	W/O 326, 296,
	1	Best Contracting	Bldg. B Auditorium Upper roof	Modified Bitumen	Square Foot	14,200	Replace	\$358,065.00	No		Remodeled Auditorium old roof, W/O 297, 298,
	1	Best Contracting	Bldg. E, Council, Career/ TV Studio	Gravel Surface BUR	Square Foot	16,300	Replace	\$412,705.00	Yes		W/O 275,306
	3	Best Contracting	Bldg W, S, T, Main Gym, Girls Locker room, Girls Gym Boys Locker Room	Built Up Roof (BUR)	Square Foot	52,500	Replace	\$1,319,915.00	Yes		W/O 286, Remodeled Gym, Old roof,
Sierra Madre Elementary	1	Western States	Kitchen	Modified Bitumen	Square Foot	1,103	Replace	\$22,942.40	Yes	\$4,831,032.00	
	1	Western States	Center Bldg. Modified Bitumen (C Bldg.)	Modified Bitumen	Square Foot	5,416	Replace	\$112,652.80	No		
District Service Center	1	Best Contracting	Directors/Facilities Office Bldg	Built Up Roof (BUR)	Square Foot	1,100	Replace	\$24,700.00	No	TBD	\$1,010,975.00
	3	Best Contracting	Measure O Portables	Wood Shake, Metal, BUR	Square Foot	4,000	Replace	\$78,175.00	No		
	3	Best Contracting	Maintenance and Operations Office Bldgs.	Metal, BUR, PVC	Square Foot	3,700	Replace	\$96,000.00	Yes		W/O 302, 266, All 3 roofs leak including the PVC roof
	1	Best Contracting	Trade Shop Buildings	Sealed Spray foam SPF	Square Foot	31,200	Replace	\$812,100.00	Yes		The deteriorated spray foam roof can cause dangerous hazards, this roof is a high priority to be replaced
Elliot M.S.	1	Western States	Bldg. C Arts	Gravel Surface BUR	Square Foot	5,069	Replace	\$105,435.20	No	\$9,666,945.00	
	1	Western States	Bldg. F Band room	Gravel Surface BUR	Square Foot	2,294	Replace	\$47,715.20	No		
	1	Western States	Bldg. B Gym	Gravel Surface BUR	Square Foot	26,462	Replace	\$526,630.60	Yes		Highest priority at Elliot
	1	Western States	Canteen	Gravel Surface BUR	Square Foot	1,008	Replace	\$20,966.40	No		
Altadena	1	Western States	Bldg. B, Main Building (West of the Lobby)	Modified Bitumen	Square Foot	17,846	Replace	\$353,351	Yes	\$10,571,876.00	Including a wall cap on the parapet walls, Remodeled school under TT, old roof
Phase 1	Total Buildings					Total SQ FT		Total Cost Est.		Per Sq Ft Avg	
	34					402,056		\$9,459,549.74		\$23.53	
SUMMER PROGRAMS				June 3rd- Aug 6th, 2022	Contractor	Square Foot	Total Cost	Per Sq Ft Avg			
					Western States	120,550	\$2,471,768.24	\$20.50			
					Best Contracting	281,506	\$6,987,781.50	\$24.82			
					Phase 1 & 2 Totals		30 yr Warranty				
					Total Buildings	Total Sites	Total Sq Ft	Total Cost Est.	Per Sq Ft Avg		
					71	17	756,166	\$18,609,300.56	\$24.61		

PUSD / WILSON CAMPUS PROGRAMMING + ASSESSMENT TIMELINE

