

# **District Sites Benchmark Review**

**Example District** 

Submitted to:

Your Business Officer



### **Business Officer**

Thank you for giving SMA the opportunity to review your campus sites. The observations in this report are meant to be a good initial step to improve your operations. The goal is to identify which campus or district facility service needs improvement.

The facility services typically represent around 7 to 15 percent of your total budget yet this department controls many vital interests of the district. This report should help you begin to improve facility operations.

We try to seek objective data about the real resources and issues of your facility functions; however, benchmarking alone won't identify many needs. Please realize that your facility operations require a more detailed ongoing refinement.

Our goal is to be your support team in the improvement of facility services. We look foreword to helping you accomplish excellence in this vital part of your district.

Sincerely,

Michael Stapleton
Service Management Assist, LLC.



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District facility interview

School Example One interview details

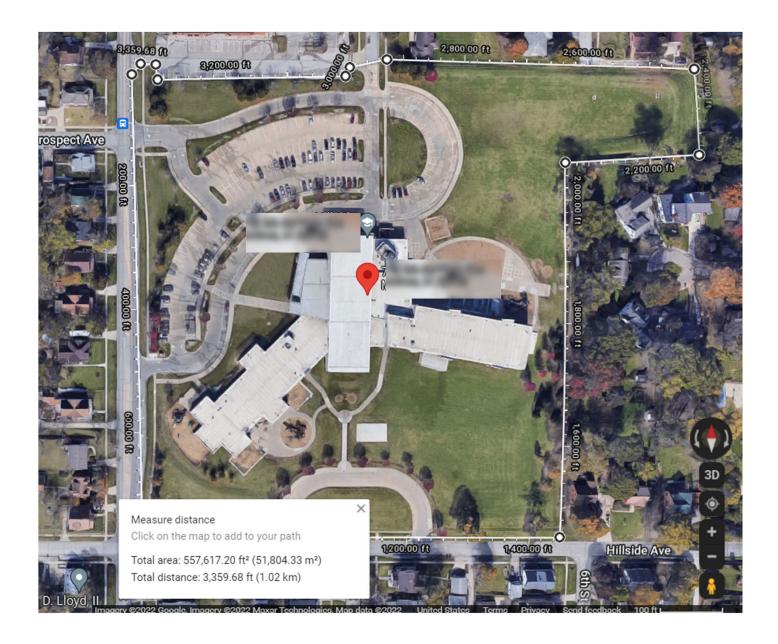
School Example Two interview details

# **School Example One**



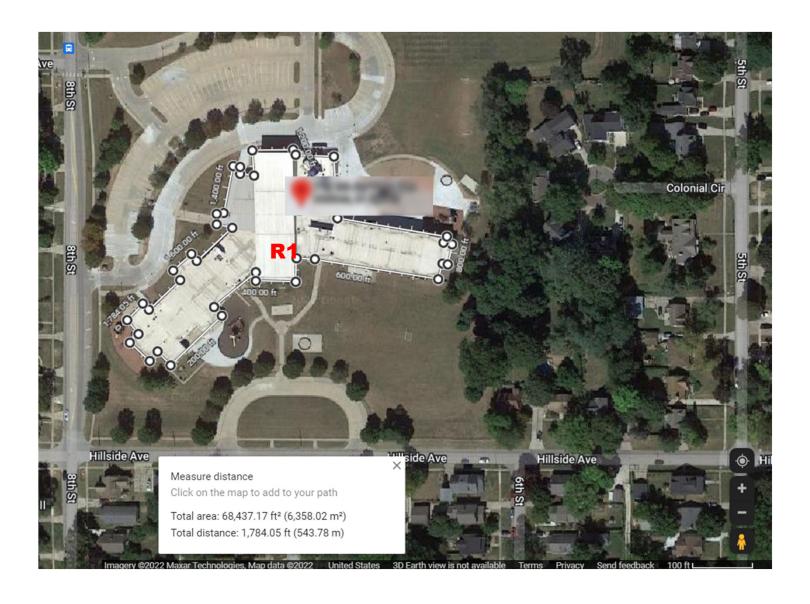
Site Bas	sed Statistics:			Scno	ol Example (	ne o	Grade Level:	Pre-K-6th
	Students:	572	X SF	146			Year Built:	2004
Full N	Map square feet:	557,617						
Se	rvice Estimates	1	Actual	Variance	Site Information			
		Hrs per day			Total Acres:		Actual SF pe	
	Cleaning Level 2			Variance	Blds Square Feet	82,389		144
	Cleaning Level 3	_		(15.37)	Students SF Est.	83,512		
	Cleaning Level 4					Benchmark	Actual	
		Hrs per day			Building(s) Squa	re Foot E	stimates	
	Other Duties	2 9.02						
		FTEs	Actual		Cafeteria	3,056		
Cust	odial Staff(Level 3)		3.00	, ,	Corridor, Carpet	5,632		
	Maintenance:		Actual		Corridor, HS	10,103		
	k orders per Month	_			Classroom, C	31,725		
	M hours per Month			(3)	Classroom, HS	4,782		
R	Roof SF to Maintain	,			Gym	9,204		
	Grounds:		Actual	Variance		1,284		
Site E	Employee Hrs/WK		9.0	(0.6)	Library	2,737		
	Turf Acres:							
	Pavement SF				Mechanical	2,526	- 3	
	Playground SF	42,939			Office, Carpet	4,914		
Equ	ipment Counts	T		otage)	Office, HS	182		
		Benchmark	Actual					
	onditioner, Split Sy				Rest Room	1,933		
Exha	ust Hood	2			Storeroom	3,347		
	Exhaust	19			Stair	965		
Make	-up Air Unit	1			Fixtures (Cust #)	129		
	Heater, Wall	15		8	Equipment Counts (Estimated by Square			Footage)
	andling Unit	7			Plumbing	Benchmark	Actual	
	r, Hot Water	2			Drinking Fountains	8		
Chille		1			Hot Water Heaters	2		
	ing Tower	1			Sinks	74		
Pum		10			Soap Dispensers	53		
Heat	Pumps	114			Toilets	44		
					Urinals	23		
1 Hours	s per day to c	lean the s	chool h	ased	Electrical			
	national avera			aoca	Electrical Panels	30		
	r daily duties	(C)		ente	Emergency Lights	104		
	ia help, emerg			crito ,	Exit Lights	48		
	chmarked cust			d.	Llight Fixtures	879		
< HADD	ililiai keu cusi	Juliai Stai		1.	Transformers	6		
	tonanco avora		100				l I	
4. Main	tenance avera	age statist		ato	Safety			
4. Main 5. Grou	ınds workers h	age statist nours/wee	k estima		Fire Extinguishers	13		
<ol> <li>Main</li> <li>Grou</li> <li>HVA</li> </ol>	ınds workers h C estimated e	age statist nours/wee equipment	k estima counts.			13 89		
<ol> <li>Main</li> <li>Grou</li> <li>HVA</li> <li>Squa</li> </ol>	ınds workers h C estimated e are footage av	age statist nours/wee quipment eraged by	k estima counts. type of		Fire Extinguishers			
<ol> <li>Main</li> <li>Grou</li> <li>HVA</li> <li>Squa</li> </ol>	ınds workers h C estimated e	age statist nours/wee quipment eraged by	k estima counts. type of		Fire Extinguishers			007.5
<ol> <li>Main</li> <li>Grou</li> <li>HVA</li> <li>Squa</li> </ol>	inds workers h C estimated e are footage av e equipment e	age statist nours/wee equipment eraged by stimated o	k estimation counts.  If type of counts.	f area.	Fire Extinguishers Heat & Smoke Dete	89		
<ol> <li>Main</li> <li>Grou</li> <li>HVA</li> <li>Squa</li> </ol>	inds workers had estimated enter footage average equipment estimated	age statist nours/wee equipment eraged by stimated o	k estima counts. type of counts.	f area.	Fire Extinguishers Heat & Smoke Dete	91,990	Playground 1	3,79
<ol> <li>Main</li> <li>Grou</li> <li>HVA</li> <li>Squa</li> </ol>	inds workers had eaten footage ave equipment expended.	age statist nours/wee equipment eraged by stimated of 557,617 68,437	k estima counts. type of counts.	68,437	Fire Extinguishers Heat & Smoke Dete  Pavement 1 Pavement 2	91,990 10,893	Playground 1 Playground 2	3,79 10,73
<ol> <li>Main</li> <li>Grou</li> <li>HVA</li> <li>Squa</li> </ol>	Inds workers had estimated extended ext	age statist nours/wee equipment eraged by stimated of 557,617 68,437 114,061	k estima counts. type of counts.	f area.	Pavement 1 Pavement 2 Pavement 3	91,990 10,893 8,024	Playground 1 Playground 2 Playground 3	307,92 3,79 10,73 28,40
4. Main 5. Grou 6. HVA 7. Squa 8. More	inds workers had eaten footage ave equipment expended.	age statist nours/wee equipment eraged by stimated of 557,617 68,437 114,061 42,939	k estima counts. type of counts.	f area.	Pavement 1 Pavement 2 Pavement 3 Pavement 4	91,990 10,893 8,024 3,154	Playground 1 Playground 2	3,79 10,73

# **School Example One Site Parameter**



This slide shows the measuring of the parameter of the school site and calculates the total square footage of the site.

# **School Example One Roof**



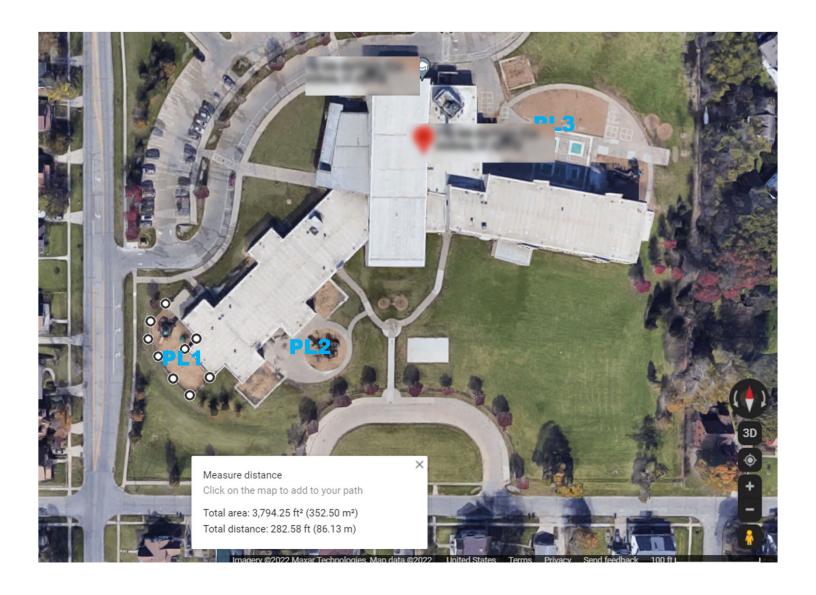
This slide shows the measuring of the roof for the school. The total roof square footage is 68,437.

## **School Example One Pavement**



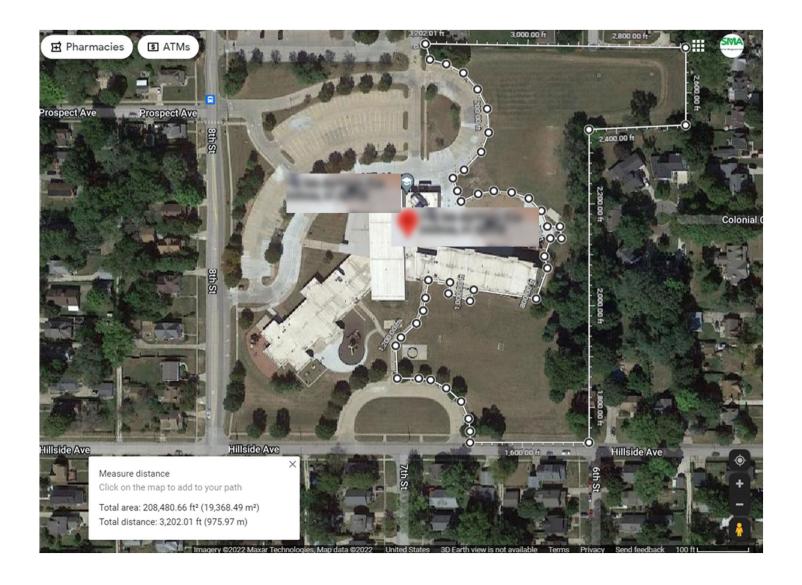
This slide shows the measuring of the pavement for the school site, note the labeling P1, P2 etc. These are the measurements for each pavement section: P1=91,990, (105,653-13,663, the turf amount.) P2=10,893, P3 8,024, P4= 3,157. The total pavement square footage is 114,061.

# **School Example One Playground**



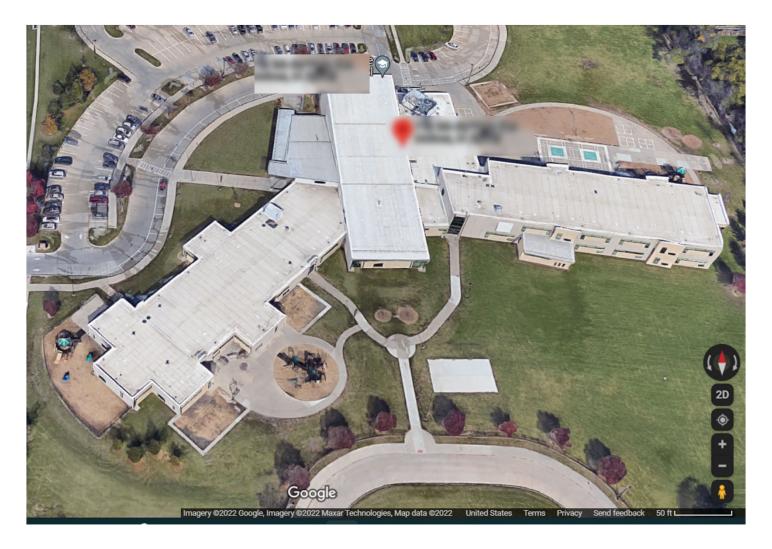
This slide shows the measuring of the playgrounds for the school site, note the labeling PL1, PL 2 etc. These are the measurements for each playground section: PL1=3,794, PL2 =10,738, PL3=28,409. The total playground square footage is 42,939

# **School Example One Turf**



The turf square footage was calculated by taking the site total, (557,617) then subtracting the roof (68,437), the pavement (114,061) and the playground (42,939) to calculate the total turf, 332,180 square feet or 12.82 acres.

# **School Example One 3D Views**



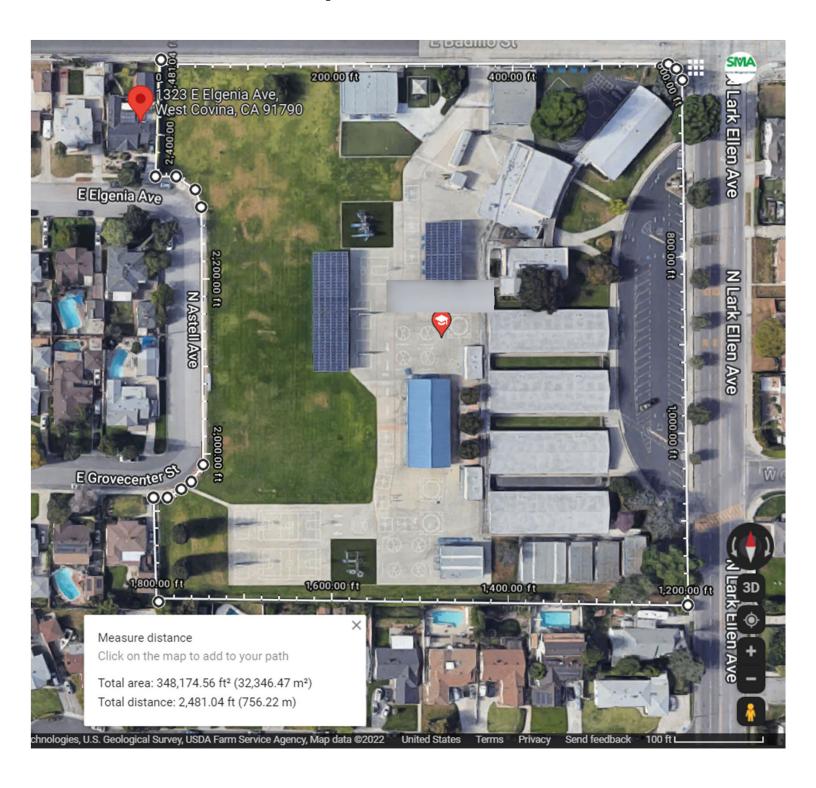


# **School Example Two**



F	Students: Full Map square feet:	525	Multiplier:					
F	Full Map square feet:		Maitiplier.	115			Year Built:	1957
	• •	348,175	-					
	Service Estimates	Benchmark	Actual	Variance	Site Information			
	Custodial:	Hrs per day			Total Acres:	8.00	Actual SF per	Student
	Cleaning Level 2	23.63		Variance	Blds Square Feet	64,203		122
	Cleaning Level 3	15.60		(15.60)	Students SF Est.	60,375		
	Cleaning Level 4	9.63				Be nchmark	Actual	
		Hrs per day		7	Building(s) Infor	mation		
	Other Duties	2 7.80			Auditorium	1,107		
		FTEs	Actual	Variance	Cafeteria	2,745		
(	Custodial Staff(Level 3)	3 2.93	2.50	(0.43)	Corridor, Carpet	808		
	Maintenance:	Per Month	Actual		Corridor, HS	3,892		
,	Work orders per Month	_			Classroom, C	23,696		
	PM hours per Month	3			Classroom, HS	11,985		
	Roof SF to Mantain	64,203			Gym	2,864		
	Grounds:		Actual	Variance		904		
5	Site Employee Hrs/WK	5 6.0	6.0		Library	2,060		
	Turf Acres:	3.44		, /	Locker Room	971		
	Pavement SF	34,298			Mechanical	764		
	Playground SF	99,973			Office, Carpet	3,527		
F	Equipment Counts	Estimated by	Square Fo	otage)	Office, HS	2,092		
		Benchmark	Actual		Pool	8		
A	Air Conditioner, Split Sys				Rest Room	2,451		
	Exhaust Hood 2			Storeroom	4,073			
F	an, Exhaust	18			Stair	256		
-	Vake-up Air Unit	1			Fixtures (Cust #)	100		
	Jnit Heater, Wall	12		8	, ,			ootage)
	Package Heating & Coo				Plumbing		Actual	3 /
	Heat Pump, Water Sour				Drinking Fountains	6		
-	Through Wall Pkg	15			Hot Water Heaters	1		
	Pump	10			Sinks	58		
	er entretental ex				Soap Dispensers	41		
					Toilets	34		
					Urinals	18		
					Electrical			
	ours per day to c			ased	Electrical Panels	23		
	he national avera	2011			Emergency Lights	81		
	ther daily duties f			ents ,	Exit Lights	38		
	teria help, emerg	-			Llight Fixtures	685		
3. Be	enchmarked cust	odial staf	fing leve	l.	Transformers	5		
<b>4.</b> M	laintenance avera	ige statist	ics.		Safety			
<b>5</b> . G	rounds workers h	ours/wee	k estima	ate.	Fire Extinguishers	10		
6. H	<b>6.</b> HVAC estimated equipment counts.				Heat & Smoke Dete	70		
	quare footage av			area.				
	lore equipment es							
								262,752
	Site	348,175	Roof 1	27,336	Pavement 1	27,104	Playground 1	80,911
	-Roof	64,203	Roof 2	36,867	Pavement 2		Playground 2	8,658
	-Pavement	34,298	Roof 3		Pavement 3	,	Playground 3	10,404
	-Playground	99,973			Pavement 4		Playground 4	, , , ,
C	opyright © 2025 Service			LLC 64,203		34.298	Playgrd Sage	e: 13 <sub>99,973</sub>
	© Copyright 2022 Service				i avenient of	- 1,200	, g	00,010

## **School Example Two Site Parameter**



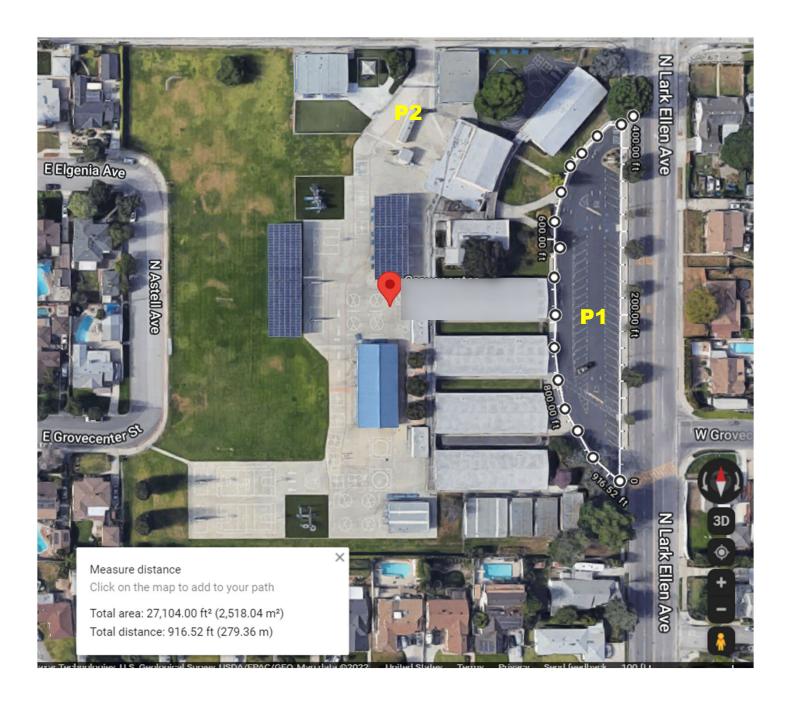
This slide shows the measuring of the parameter of the school site and calculates the total square footage of the site.

# **School Example Two Roof**



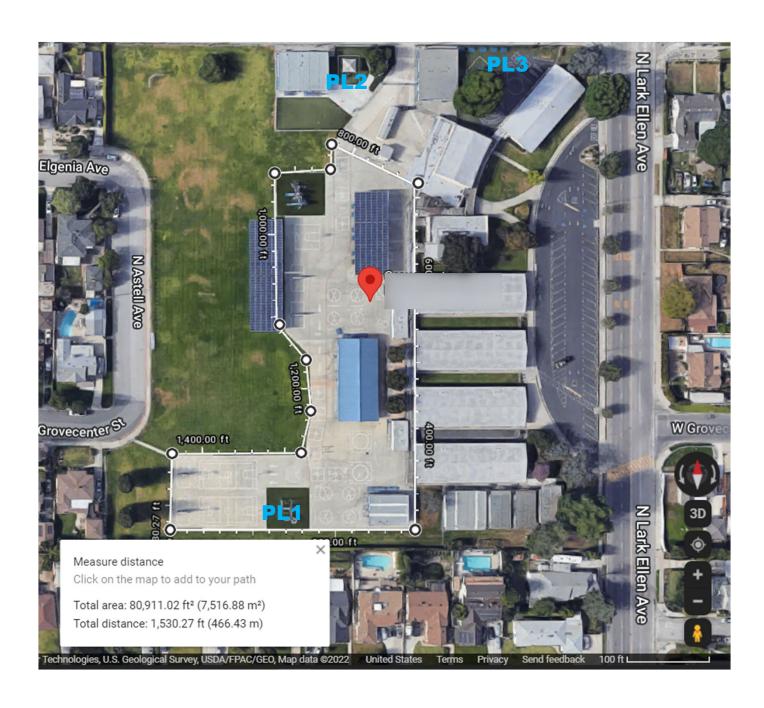
This slide shows the measuring of the roofs for the school site, note the labeling R1, R2 etc. These are the measurements for each roof section: R1 = 27,336; R2 = 1,510; R3=5,014, R4=3,377, R5=6,636, R6=5,103, R7=3,708, R8=173, R9=441, R10=2,975, R11=1,806, R12=2,422, R13=3,702. The total roof square footage is 64,203.

# **School Example Two Pavement**



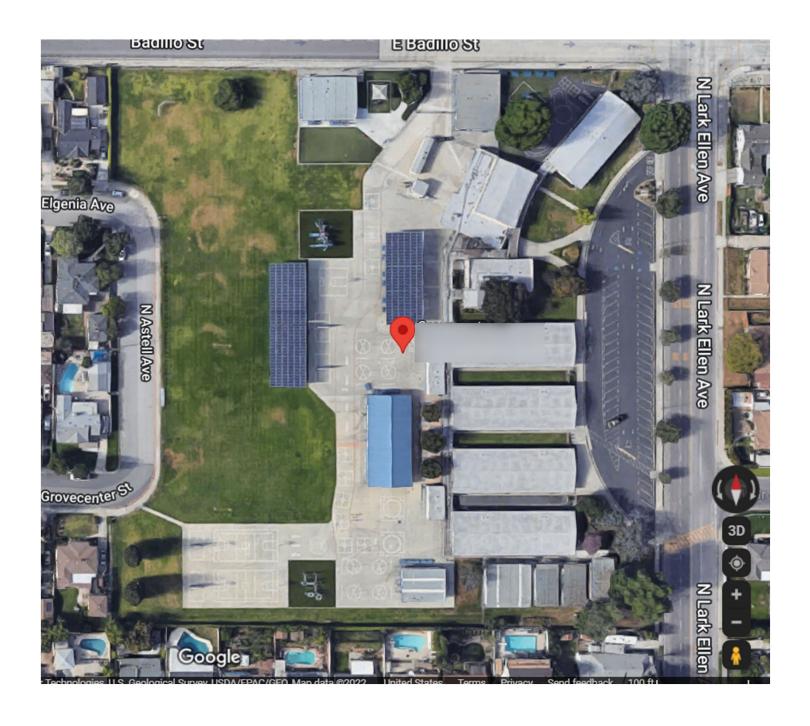
This slide shows the measuring of the pavement for the school site, note the labeling P1, P2 etc. These are the measurements for each pavement section: P1=27,104, P2=7,194 The total pavement square footage is 34,298

## **School Example Two Playground**



This slide shows the measuring of the playgrounds for the school site, note the labeling PL1, PL 2 etc. These are the measurements for each playground section: PL1=80,911, PL2 =8,658, PL3=10,404. The total playground square footage is 99,973

# **School Example Two Turf**



The turf square footage was calculated by taking the site total, (348,175) then subtracting the roof (64,203), the pavement (34,298) and the playground (99,973) to calculate the total turf, 149,701 square feet or 3.44 acres.

# **School Example Two** 3D Views





# **District Benchmark Observations**

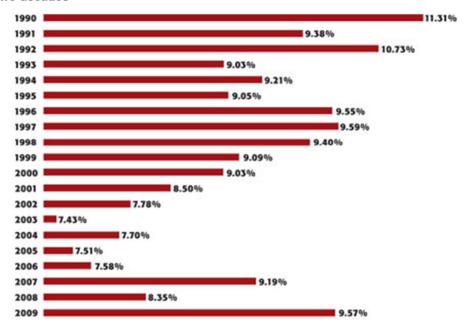
### Question 1:

Is your institution investing the typical amount of annual budget in operations and maintenance?

### M&O expenditures over the past 20 years

Apr 1, 2009 12:00 PM

Spending by school districts on maintenance and operations as a percentage of total district expenditures over the past two decades



The AS&U nationwide survey of K-12 maintenance and operations budgets as a percent of total district budget averages 8.95% given this 20-year sampling.

# **Facility Operations Observations** (continued)

### Question 2:

Do you have staffing levels that match benchmarks in custodial, maintenance and grounds?

### **Facility Department Current Staffing**

Square Footage 1,095,000 Acres 300

### Position Summary in Full Time Equivalents

	Benchmark	Actual
Manager	2.19	1.00
Supervisor	2.74	3.00
Clerical	1.92	1.00
Custodial	39.11	35.00
Maintenance	11.89	8.00
Grounds	9.68	4.00
Total FTE's	67.52	52.00

### **Workload Statistics:**

Site	Bases Statistics										
# Schoo	ol Name	Students*	Low Grd	High Grd	<b>Total Acres</b>	Turf Acres	Roof SF	Pavement SF	Playground	Bld. Sq. Ft.	%
1 School	ol Example One	572	PK	06	12.82	7.64	68,437	114,061	42,939	82,389	7.52%
2 Schoo	ol Example Two	525	KG	05	8.00	3.44	64,203	34,298	99,973	64,203	5.86%
3 School	ol Example Three	421	KG	05							0.00%

		Custodial		Maitena	nce	Grounds
	Site Bases Statistics	Cleaning	Other	Work	Planned	
	Benchmarked Levels	Level 3	Duties	Orders	Maintenance	Site
		Hrs/Day	Hrs/Day	/Month	Hrs/Month	Hrs/Week
1	School Example One	15.37	9.02	36	3.00	9.60
2	School Example Two	15.60	7.80	28	3.00	6.00
3	School Example Three	0.00	0.00	0	0.00	0.00

# **Facility Operations Observations** (continued)

### Question 3:

Do you have enough leadership resources? Properly skilled and motivated leadership more than pays for itself in refined systems and performance.

### Question 4:

Which facility management systems seem to have need of increased implementation or refinement? (Such as: corrective work order flow; planned maintenance; custodial scheduling; grounds plan calendar etc.)

# **District Sites Review Appendix**

District-wide manager interview

School site-based interview summaries

Levels of cleaning

"Other Duties" explained

# **District-wide manager interview**

District Building Square Footage: Please provide the total square footage of district buildings, if you don't have an exact number estimate the square footage.

1 response

1,000,000 SF

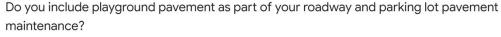
District Acres: Please provide the total acreage of the district, if you don't have an exact number estimate the acres.

225 Acres

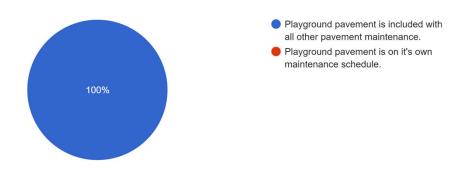
District facility budget: Please provide the total amount the district is budgeting for facilities operations (typically custodial, maintenance, grounds and utilities expense). \$8,200,000

Facilities leadership team: Please provide numbers of managers and supervisors along with their titles.

One Manager (Facility Manager); Three Supervisors (Custodial, Maintenance and Grounds)

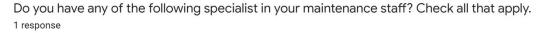


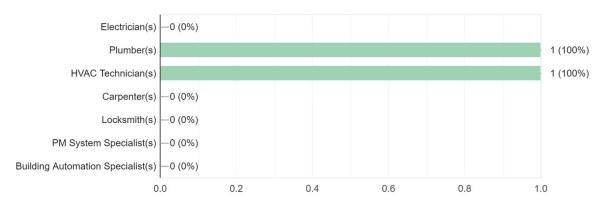




# **District-wide manager interview**

Maintenance Staffing: Please provide the total number of maintenance workers employed by your district in full time equivalents. 8 FTE

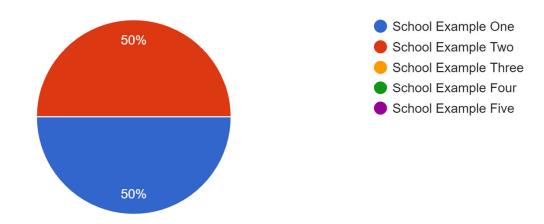




Grounds Staffing: Please provide the total number of district grounds employees who service your district in full time equivalents. 4 FTE

## **School site-based interview summaries**

Select the School/building (each site will require a separate submittal) <sup>2</sup> responses



Building Square Footage: Please provide the square footage of the building(s) of this school site, if you don't have an exact number estimate the square footage.

82,389

64,203

Site Acres: Please provide the acres of this school site, if you don't have an exact number estimate the acres.

12.8

8

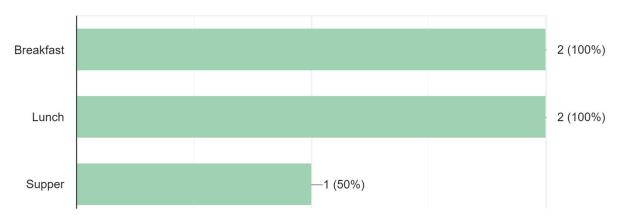
Custodial Staffing: Please provide how many custodians service this site in full time equivalents.

3

2.5

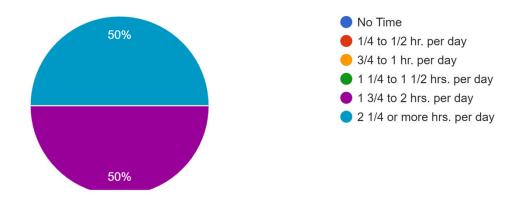
# **School site-based interview summaries**

Cafeteria/Food Service Support, please check the meals that are served in your school: <sup>2</sup> responses



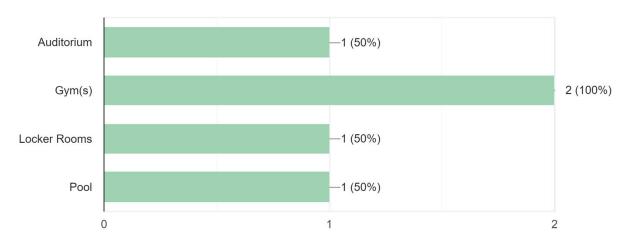
Cafeteria/Food Service Support, please select the best time estimate estimate of the total employee hours per day supporting food services:

2 responses



Check the types of areas that apply to this site, not all school sites have these areas (or buildings). Check all that apply.

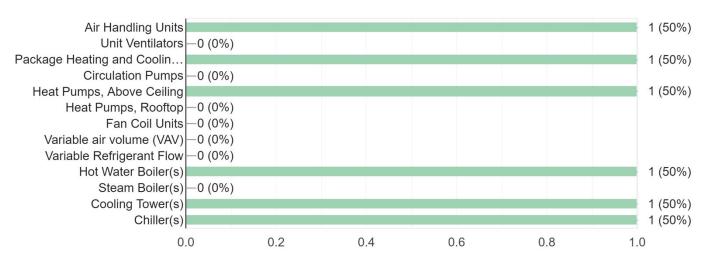
2 responses



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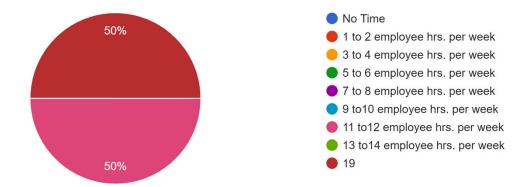
## **School site-based interview summaries**

HVAC Information: Identify this site's type(s) of HVAC equipment. Check all that apply. <sup>2</sup> responses



Grounds Support: Estimate the total employee hours per week required for grounds work during the growing season (A crew of 3 spending 2 hours = 6 employee hours).

2 responses



#### **Association of School Business Officials Custodial Levels**

SMA uses the five ASBO levels as a point of reference to determine where your District rates. Listed here are the ASBO levels:

### Levels of Cleaning / Density of Staffing

#### **ESTABLISHING EXPECTATIONS FOR CUSTODIAL EFFORTS**

Planners, administrators, and community members must agree on what constitutes "cleanliness." While there is not a nationwide standard for describing standards of cleanliness, a five-tiered system of expectations is emerging to help guide decision-making:

**Level 1** cleaning results in a "spotless" building, as might normally be found in a hospital environment or corporate suite. At this level, a custodian with proper supplies and tools can clean approximately 10,000 to 11,000 (California equivalent: 7,000 to 7,700) square feet in an 8-hour period.

**Level 2** cleaning is the uppermost standard for most school cleaning, and is generally reserved for restrooms, special education areas, kindergarten areas, or food service areas. A custodian can clean approximately 18,000 to 20,000 (California equivalent: 12,600 to 14,000) square feet in an 8-hour shift.

**Level 3** cleaning is the norm for most school facilities. It is acceptable to most stakeholders and does not pose any health issues. A custodian can clean approximately 28,000 to 31,000 (California equivalent: 19,600 to 21,700) square feet in 8 hours.

**Level 4** cleaning is not normally acceptable in a school environment. Classrooms would be cleaned every other day, carpets would be vacuumed every third day, and dusting would occur once a month. At this level, a custodian can clean 45,000 to 50,000 (California equivalent: 31.500 to 35.000) square feet in 8 hours.

**Level 5** cleaning can very rapidly lead to an unhealthy situation. Trash cans might be emptied, and carpets vacuumed on a weekly basis. One custodian can clean 85,000 to 90,000 (California equivalent: 59,500 to 63,000) square feet in an 8-hour period.

The figures above are estimates. The actual number of square feet per shift a custodian can clean will depend on additional variables, including the type of flooring, wall covers, and number of windows, all of which must be taken into account when determining workload expectations. Taken from page 82 of The Planning Guide for Maintaining School Facilities by the School

Facilities Maintenance Task Force; National Forum on Education Statistics and the Association of School Business Officials International (ASBO®) Sponsored by the National Center for Education Statistics and the National Cooperative Education Statistics System February 2003.

http://www.emsc.nysed.gov/facplan/publicat/Planning Guide Maintaining School Facilities 040303.pdf

California square footage needs to be increased by 30% to be equivalent to the national numbers. California schools have reduced square footage in corridors, gyms and cafeterias due to campus configuration verses a self-contained school building. Campuses have more custodial outside and entrance work. 23,000 in California is equivalent to 29,900 square feet in these ASBO Levels.

# Other custodial duties explained

The "Other Duties" interview of Custodians is designed to quantify the duties driven by school activities that are beyond cleaning the buildings each day. A typical California school district of one million square feet will have around 45 custodians, compare that to an office complex of the same square footage requiring around 23 custodians. The difference between an office complex and school are the many duties required beyond cleaning for the school custodians. Quantifying the "Other Duties" task workload is best accomplished by interviewing the custodians. Listed below are some typical tasks quantified in the SMA interviews:

Event Support (Set-up and tear down for athletics, arts, clubs, etc.)

Cafeteria Support

Directly Assigned Calls (911 type reactive requests typically by radio)

Shipping / Receiving

Opening the Campus

Locking the Campus

Grounds Duties (Leaves and trash clean-up)

Maintenance Duties (light maintenance, i.e., bulb replacement, desk repairs, etc.)

Double Cleaning (Some areas may require more than one clean per day)

Graffiti Removal

Laundry (mops, rags, etc.)

Playground Inspections

**Quality Checks** 

Recycling

Security

Stocking Materials (i.e., copy paper)

Clerical Work (Work orders, e-mail etc.)

**Traffic Control**