

Welcome



Cheryl Fisher
TDA

Educational/
Master Planner



Emily Danis
TDA
Communications



Jeff Tuckerman
Hammond
Regional Program
Consultant





Agenda

Overview of Handouts

Focus on Roberts MS Facility Condition

Focus on Silver Lake ES Facility Condition

Tour Roberts MS School

Tour Silver Lake ES School

Questions





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Tour Roberts MS School

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Roberts Middle School- General Information







SF = 75,249 SF

Original Construction: 1968

Additions: None

Acres: 14.8 (including Little Black Tiger Field)*

Enrollment: 405

Grades 6-8

Building Capacity: 648 students





Roberts Middle School – Assessment Validation

			SBDP 2009					
			FHA October 2014		TDA June 2018			
			Update		Assessment		Delta:	
			Gandee 2015 EEA		Validation Update			
	Item	Rating	2018 Cost Set					
A.	Heating System	3	\$2,567,495.88		\$2,567,495.88		\$0.00	
B.	Roofing	2	\$578,273.20		\$716,036.40		\$137,763.20	
C.	Ventilation / Air Conditioning	2	\$37,624.50		\$0.00		(\$37,624.50)	
D.	Electrical Systems	3	\$1,221,291.27		\$1,221,291.27		\$0.00	
E.	Plumbing and Fixtures	3	\$675,943.00		\$697,043.00		\$21,100.00	
F.	Windows	3	\$106,270.00		\$124,270.00		\$18,000.00	
G.	Structure: Foundation	1	\$0.00		\$0.00		\$0.00	
H.	Structure: Walls and Chimneys	2	\$167,125.00		\$214,725.00		\$47,600.00	
I.	Structure: Floors and Roofs	1	\$0.00		\$0.00		\$0.00	
J.	General Finishes	3	\$1,849,886.90		\$2,218,014.40		\$368,127.50	
K.	Interior Lighting	3	\$376,245.00		\$376,245.00		\$0.00	
L.	Security Systems	3	\$214,459.65		\$274,459.65		\$60,000.00	
M.	Emergency/Egress Lighting	3	\$75,249.00		\$75,249.00		\$0.00	
N.	Fire Alarm	3	\$131,685.75		\$131,685.75		\$0.00	
0.	Handicapped Access	2	\$307,609.80		\$310,607.80		\$2,998.00	
P.	Site Condition	2	\$371,530.30		\$371,530.30		\$0.00	
Q.	Sewage System	1	\$0.00		\$0.00		\$0.00	
R.	Water Supply	1	\$0.00		\$0.00		\$0.00	
S.	Exterior Doors	2	\$28,800.00		\$50,000.00		\$21,200.00	
T.	Hazardous Material	2	\$367,424.90		\$367,424.90		\$0.00	
U.	Life Safety	3	\$321,859.30		\$326,859.30		\$5,000.00	
٧.	Loose Furnishings	3	\$376,245.00		\$376,245.00		\$0.00	
W.	Technology	3	\$712,608.03		\$712,608.03		\$0.00	
	Subtotal:		\$10,487,626.48		\$11,131,790.68		\$644,164.20	
X.	Construction Contingency / Non Construction Costs		\$2,562,158.61		\$2,719,529.86		\$157,371.25	
	Subtotal:		\$13,049,785.09		\$13,851,320.54		\$801,535.45	
То	Total Cost (regional cost factor applied (103.60%)): \$13,519,577.36 \$14,349,968.08							



\$18,891,261.45 72% \$18,891,261.45 76%

4%





Roberts Middle School - Condition



Spalling brick



Deteriorating wall



Spalling brick





Roberts Middle School- Condition



HVAC system does not provide 15 CFM fresh air per OBC



Guard/Handrail not code compliant



Rusted/delaminated lintel



Exterior doors in poor condition







Educational Adequacy



SIZE











SIZE

and Flexibility

Student retention is **5%** with a lecture format,

50% with a discussion format and

70% with a practice by doing format.







SIZE

and Flexibility



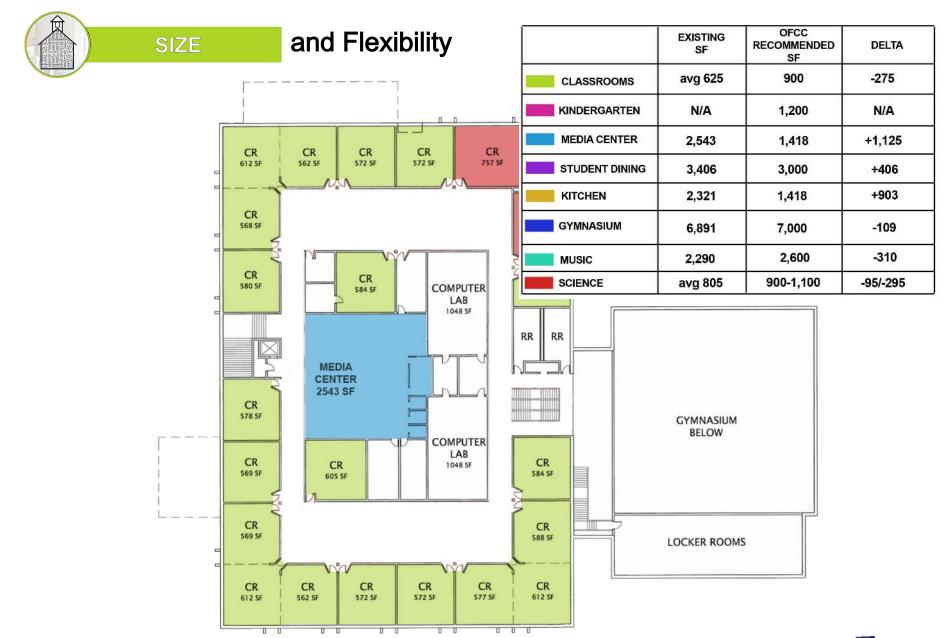
















DAYLIGHTING





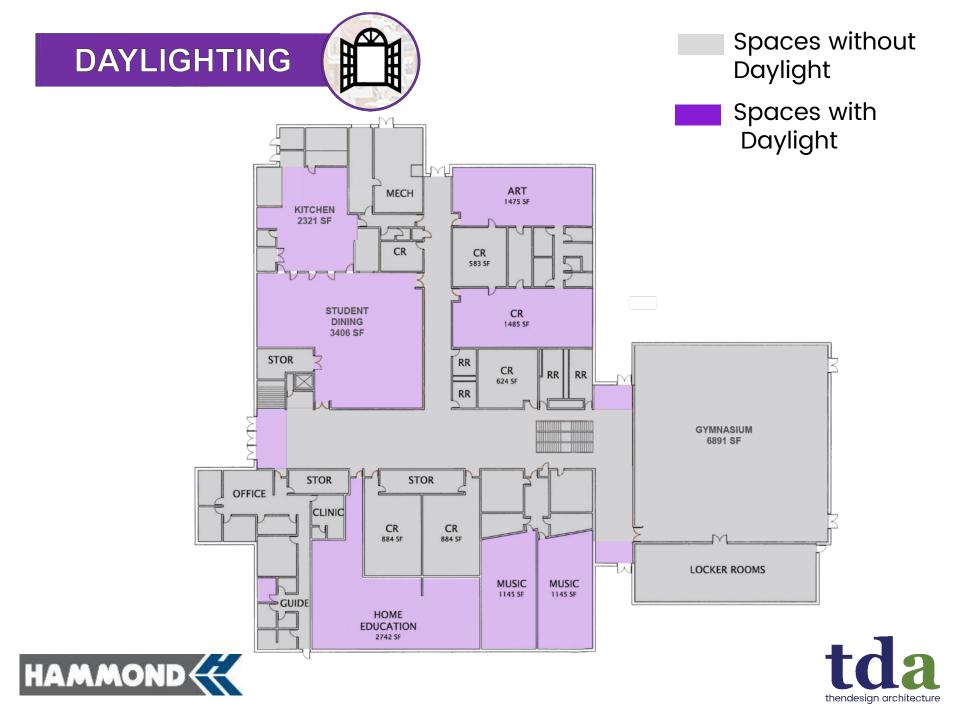
"In one school district, students with the most daylighting in their classrooms progressed 20% faster on math tests and 26% faster on reading tests when compared to students in the least daylit classrooms."

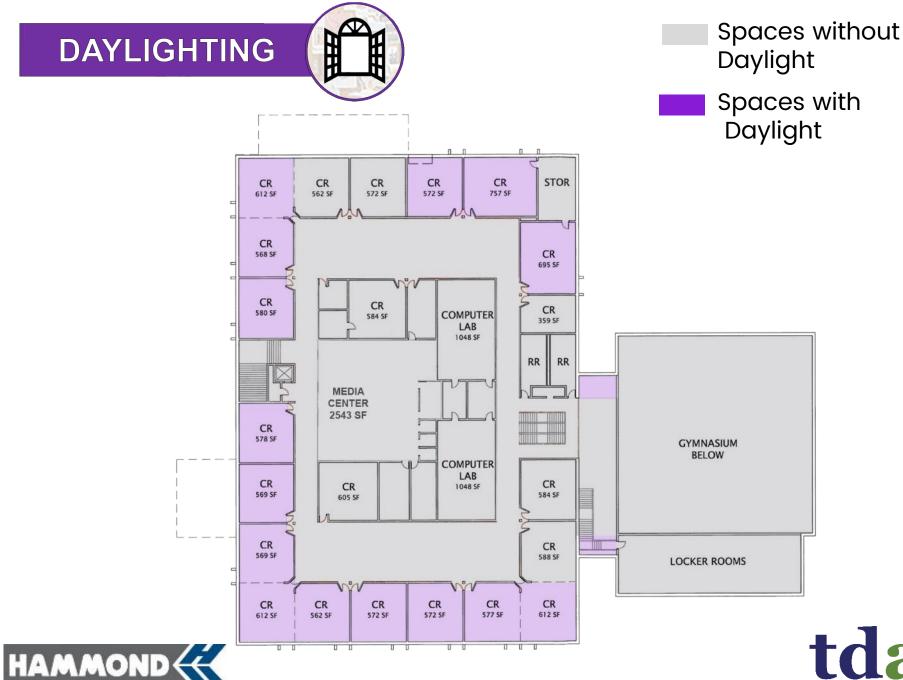
Daylighting in Schools: Improving Student Performance and Health at a Price Schools Can Afford, 2000













SAFETY/SECURITY

"Employing CPTED [Crime Prevention Through Environmental Design] concepts in new school construction and renovations can make substantial improvements, ranging from reconfiguring main entranceways to funnel visitors into the office to enhancing hallway supervision with improved line-ofsight, and reducing bullying by putting restroom sinks in a common area on the outer portion of the bathrooms so adults can better supervise kids washing their hands after using the facilities,"



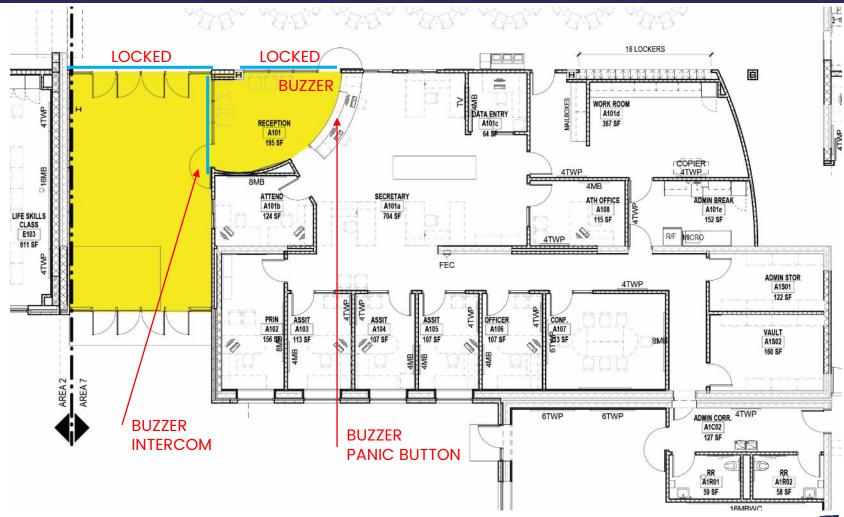
School Safety A Shared Responsibility, Justine Brown, October 2015





PASSIVE DESIGN

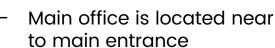
Secure entry vestibule











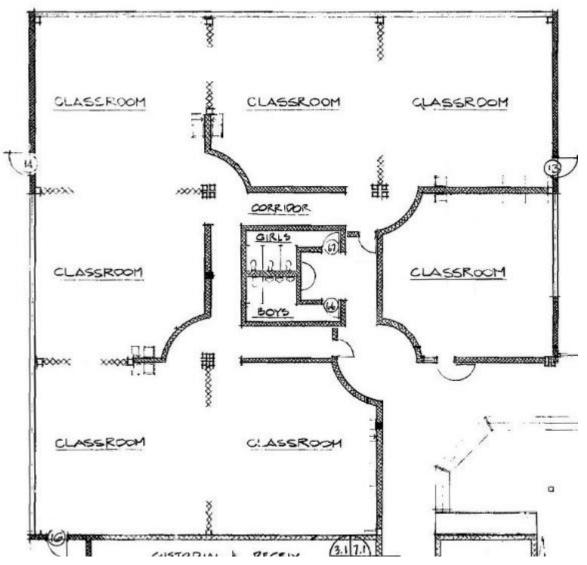
- A secure vestibule is not present at main entrance
- Corridor generally provide good line of site, but there are a few bends limiting visual supervision
 - Restroom design does not provide sinks in a common area on the outer portion of the bathrooms so adults can better supervise kids





SAFETY/SECURITY 1









Roberts Middle School – Summary

- The overall renovation cost rose slightly since last update and conditions continue to deteriorate
- Site is a pleasant, park-like setting, is provided with a dedicated bus loop for proper separation of car and buses, and has approx. 3.7 acres of greenspace suitable for outdoor learning opportunities.
- Typical classrooms and science rooms are undersized compared to State standards. The first floor spaces are typically static and nonflexible, but many upstairs rooms are equipped with movable walls allowing for a variety of class sizes.
- The compact design does not allow for natural light in many educational spaces.
- Most corridors provide good line of site, but some have bends and turns, prohibiting supervision. The facility lacks security/safety features in the restroom design to inhibit opportunities for bullying and there is no secure vestibule entrance for enhanced security control.





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Focus on Roberts MS Facility Condition

Focus on Silver Lake ES Facility Condition

Tour Roberts MS School

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Questions





Silver Lake ES – General Information







SF = 37,606 SF

Original Construction: 1927

Additions: 1946 Classroom Addition

1950 Classroom Addition 1956 Classroom Addition

Acres: 4.3

Grades: K-5

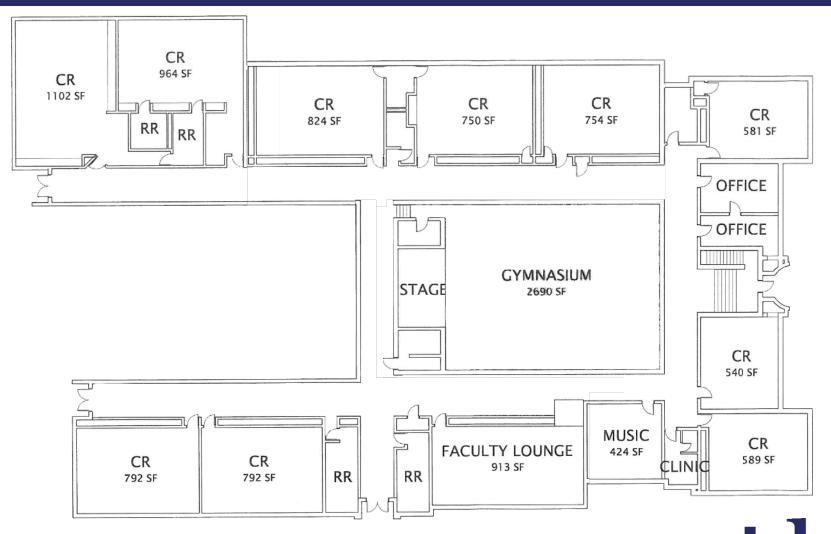
Enrollment: 233

Building Capacity: 300 students





Silver Lake ES – Sequence of Construction





Silver Lake ES – Assessment Validation

	ltem .	Rating	SBDP 2009 FHA October 2014 Update Gandee 2015 EEA 2018 Cost Set	Asse	lune 2018 ssment on Update	Delta:
Α.	Heating System	3	\$1,283,116.72	\$1.2	83,116.72	\$0.00
	Roofing	3	\$260,619.00		65,201.40	\$104,582.40
C.	Ventilation / Air Conditioning	2	\$23,803.00	, , ,	\$5,000.00	(\$18,803.00)
D.	Electrical Systems	3	\$610,345.38		10,345.38	\$0.00
E.	Plumbing and Fixtures	3	\$369,642.00		69,642.00	\$0.00
F.	Windows	2	\$22,848.00		01,023.00	\$78,175.00
	Structure: Foundation	2	\$59,160.00	\$	67,160.00	\$8,000.00
Н.	Structure: Walls and Chimneys	2	\$424,327.25	\$4	72,327.25	\$48,000.00
T.	Structure: Floors and Roofs	2	\$7,380.00		\$7,380.00	\$0.00
J.	General Finishes	3	\$1,074,473.20	\$1,3	40,361.20	\$265,888.00
K.	Interior Lighting	3	\$188,030.00	\$1	88,030.00	\$0.00
L.	Security Systems	3	\$107,177.10	\$2	07,177.10	\$100,000.00
M.	Emergency/Egress Lighting	3	\$37,606.00	\$	37,606.00	\$0.00
N.	Fire Alarm	3	\$65,810.50	\$	65,810.50	\$0.00
Ο.	Handicapped Access	2	\$411,753.00	\$4	11,753.00	\$0.00
P.	Site Condition	2	\$279,051.40	\$3	35,460.00	\$56,408.60
Q.	Sewage System	1	\$0.00		\$0.00	\$0.00
R.	Water Supply	1	\$0.00		\$0.00	\$0.00
S.	Exterior Doors	3	\$11,100.00	\$	17,100.00	\$6,000.00
T.	Hazardous Material	3	\$468,642.60	\$4	68,642.60	\$0.00
U.	Life Safety	3	\$365,991.45	\$3	68,891.45	\$2,900.00
V.	Loose Furnishings	3	\$188,030.00	\$1	88,030.00	\$0.00
W.	Technology	3	\$495,647.08	\$4	95,647.08	\$0.00
	Subtotal:		\$6,754,553.68	\$7,4	05,704.68	\$651,151.00
X.	Construction Contingency / Non Construction Costs		\$1,650,158.18		09,236.37	\$159,078.19
	Subtotal:		\$8,404,711.86	\$9,2	14,941.05	\$810,229.19
Т	otal Cost (regional cost factor applied (103.60%)):		\$8,707,281.49	\$9,54	6,678.93	\$839,397.44

Cost to Replace Reno/Replace Ratio \$9,979,128.16 87% \$9,979,128.16 96%

8%





Silver Lake ES - Condition



General Finishes in Worn condition



Retaining wall deteriorating



Floor crack due to settlement





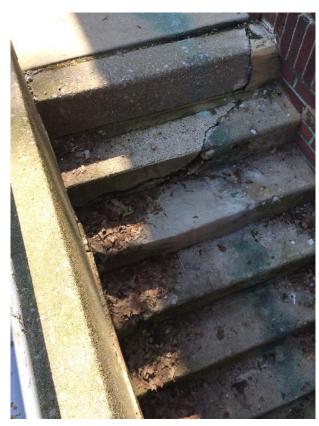
Silver Lake ES - Condition



ADA barriers with multiple stories and level changes



Exterior doors in worn out condition



Concrete steps deteriorating







Educational Adequacy



SIZE











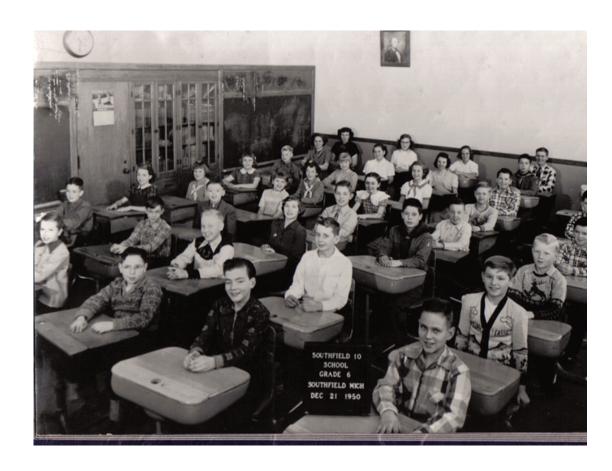
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and Flexibility

Student retention is **5%** with a lecture format,

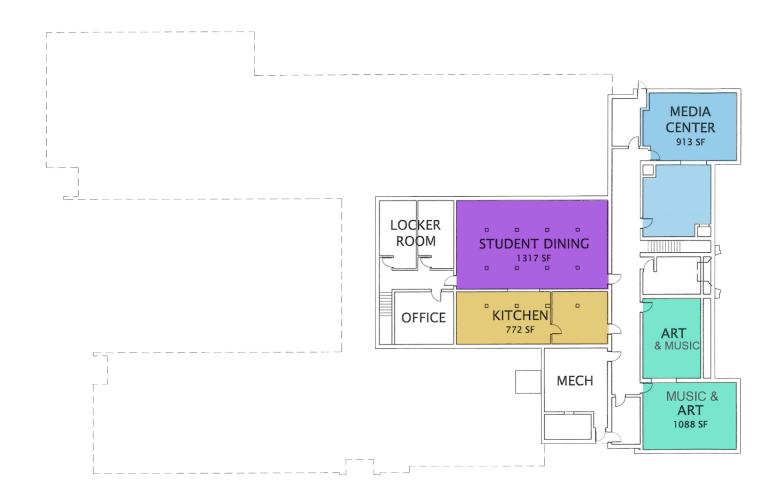
50% with a discussion format and

70% with a practice by doing format.





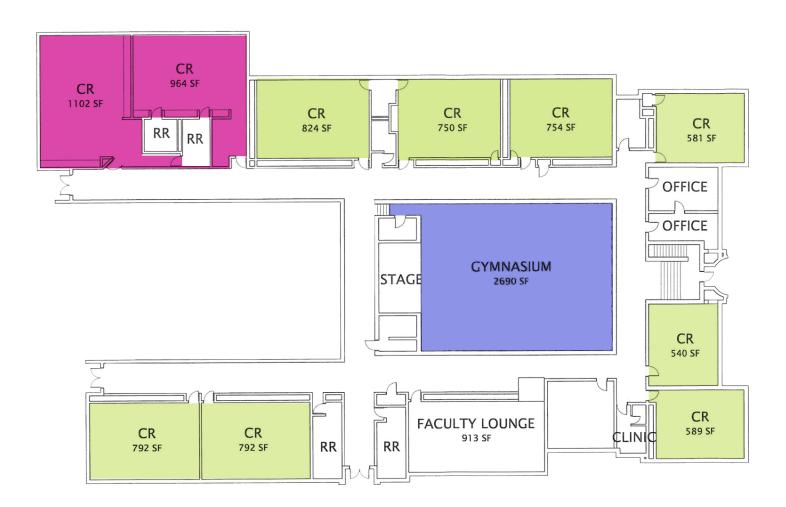




Revised 11-9-18 to include recent change in Music location (was on 1st floor previously as presented 11-8-18)



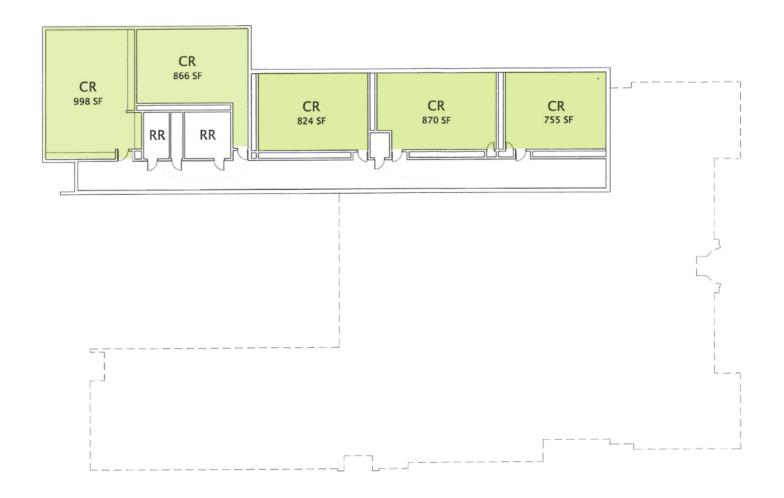




Revised 11-9-18 to include recent change in Music location (was on 1st floor previously as presented 11-8-18)











	EXISTING SF	OFCC RECOMMENDED SF	DELTA
CLASSROOMS	avg 764	900	-136
KINDERGARTEN	avg 1,033	1,200	-167
MEDIA CENTER	913	699	+214
STUDENT DINING	1,317	3,000	-1,683
KITCHEN	772	816	-44
GYMNASIUM	2,690	3,500	-810
MUSIC	424	1,200	-776
SCIENCE	N/A	N/A	N/A





DAYLIGHTING





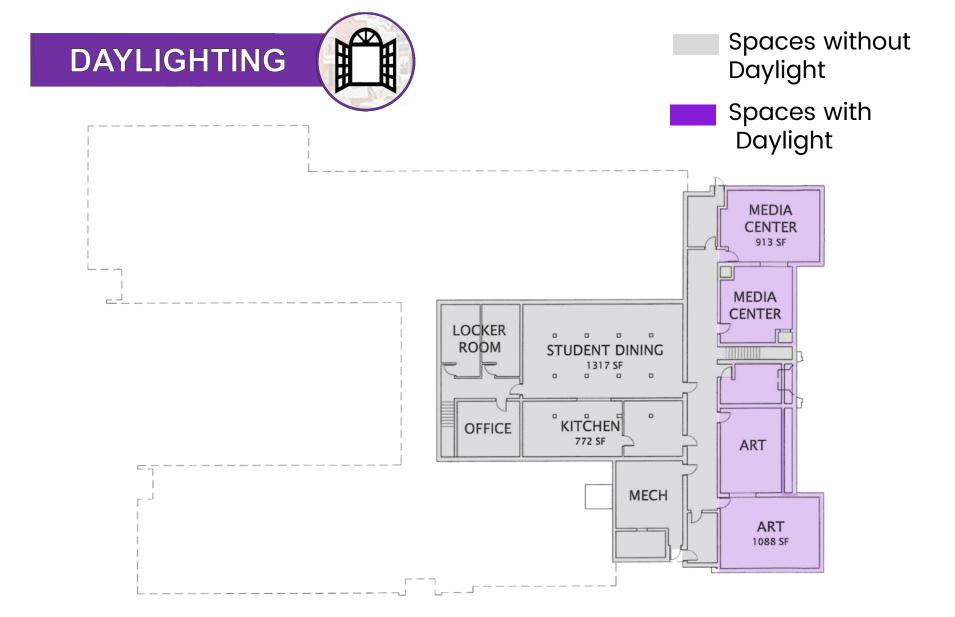
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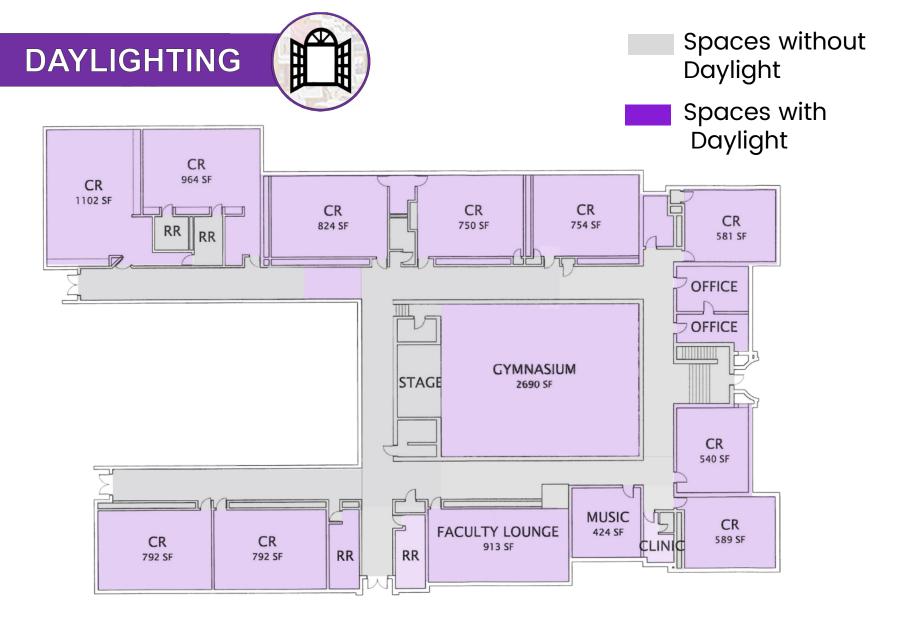






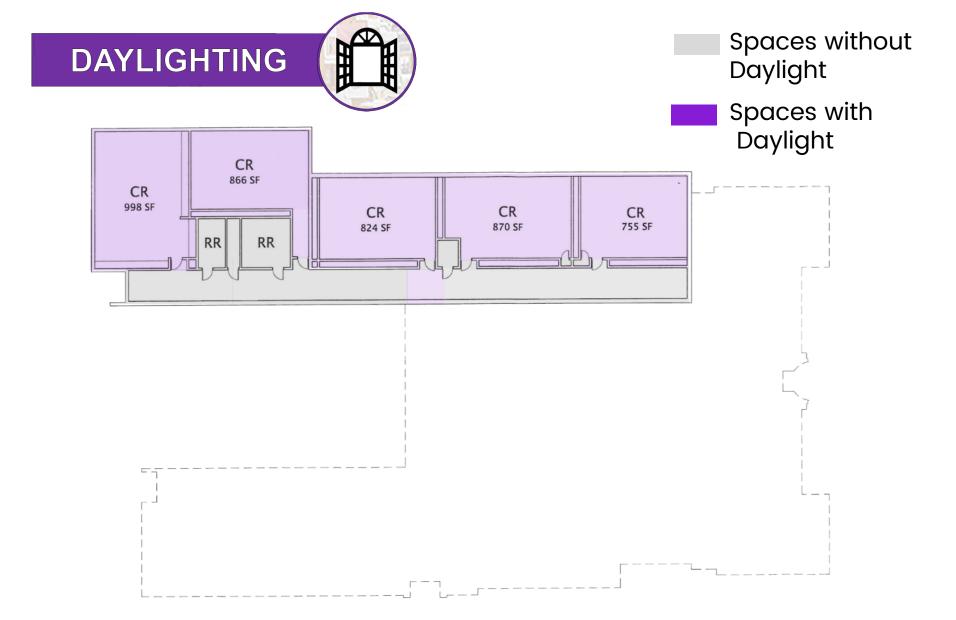
















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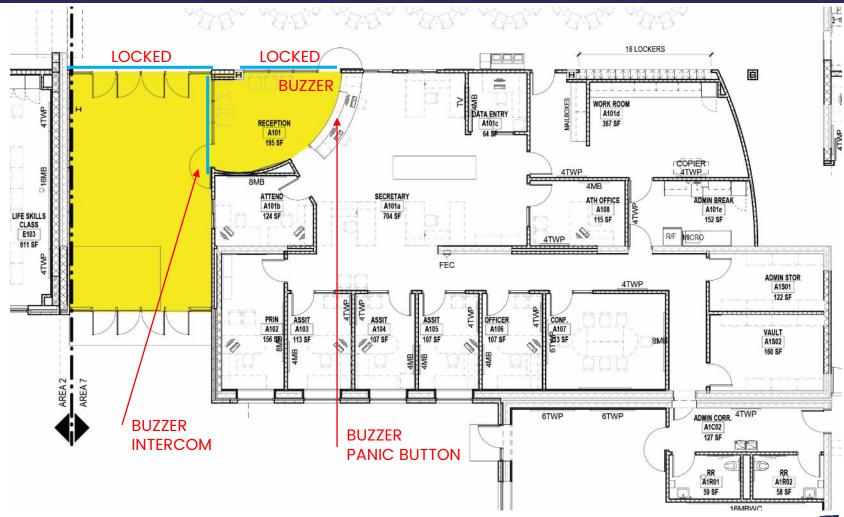
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PASSIVE DESIGN

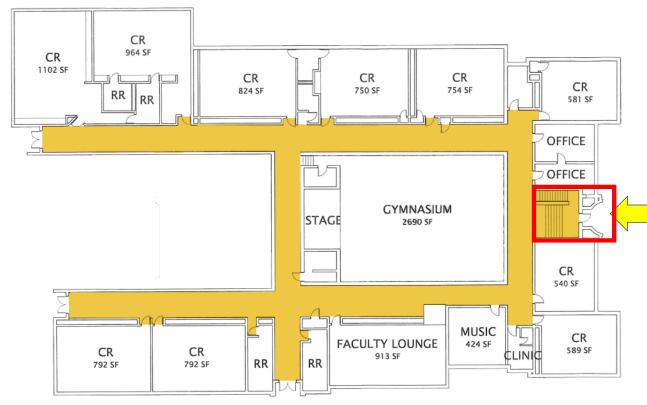
Secure entry vestibule







SAFETY/SECURITY



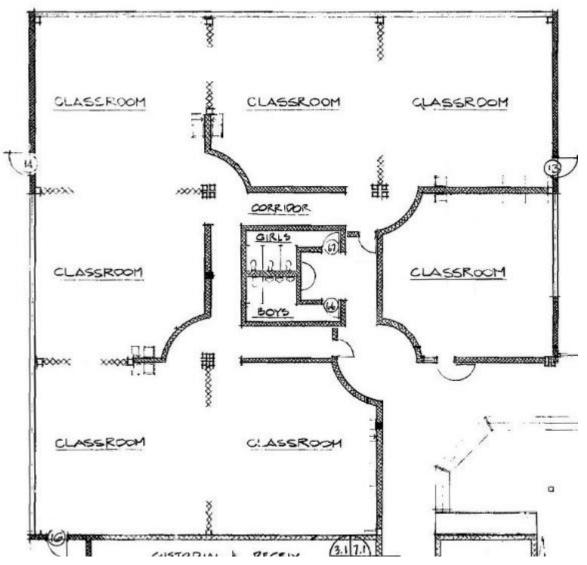
- Main office is located a half level above main entrance
- A secure vestibule is not present at main entrance
- Corridors provide generally a good line of sight for supervision
- Restroom design does not provide sinks in a common area on the outer portion of the bathrooms so adults can better supervise kids





SAFETY/SECURITY 1









Silver Lake Elementary ES – Summary

- The overall renovation cost continues to increase and condition continues to deteriorate
- Site is small at 4.3 acres and has about 2.2 greenspace and room for expansion. Parking design does not promote good circulation patterns. There is no bus drop loop.
- Typical classrooms are undersized compared to State standards and are static.
- Multiple levels in this facility create ADA barriers throughout.
- The school has a generous amount of daylight nearly all teaching/learning spaces are provided with natural light
- Corridors have a good line of sight with only a few bends which could hinder visual supervision. The facility lacks security/safety features in the restroom design to inhibit opportunities for bullying and there is no secure vestibule entrance for enhanced security control.





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