Facilities Master Plan





















Overview and Introduction

The Ladue Schools Board of Education approved the original Facilities Master Plan on Dec. 12, 2011 for the purpose of providing a structure for facilities planning for the next 10-15 years. It was intended then – as now – to be a fluid document to be updated and revised as economic, educational, and demographic conditions evolve. An update to the original plan was developed in 2012 and introduced potential timelines and the resulting debt service tax implications of implementing the plan given the economic indicators and state of district facilities at the time.

In the fall of 2018, the priority initiative identified in those initial documents – a major renovation of Ladue Horton Watkins High School – was completed. (See following section: History of Approved Bond Levy Requests for Capital/Facility Improvements.) As a result, the district's Facilities Planning Board Advisory Committee undertook this latest update of the district's Facilities Master Plan.

Except as noted, the priorities, timelines and financial projections reflected in these planning documents are for discussion purposes only. They reflect potential solutions for current building needs as developed by the Facilities Planning Board Advisory Committee and the resulting financial implications as projected

by the district's financial consultants. Except where specifically noted, they are not intended to be, nor should they be construed to be, specific recommendations approved by the Board of Education.

In the spirit of the originally approved Facilities Master Plan, this information is being brought forward on behalf of the Ladue School District by the Facilities Planning Board Advisory Committee based on the district's Strategic Plan and these organizations' respective Vision Statements.





Ladue School District Vision Statement

Together, we will empower every student to become a passionate learner and achieve his or her highest potential.



Facilities Board Advisory Committee Vision Statement

The vision of the Facilities
Board Advisory Committee is
to provide for the immediate
and long-term land use
and building needs of the
district, maintaining sufficient
facilities that are sustainable,
of high quality and state-ofthe-art, fostering a physical
environment that promotes
achievement of the principles
of the Ladue School District's
overall Mission and Vision.

Planning Team

Facilities Board Advisory Committee

Judy AbramsAaron EarlySheldon JohnsonMichael MyersAndy BreslerJames FaronScott LackeyAnne Noble

Ladue School District Administration

Dr. Donna Jahnke - Superintendent

Dr. Jason Buckner - Assistant Superintendent for Business & Finance

Dr. Ken Rossics - Assistant Superintendent for Human Resources

Dr. Amy Zielinski - Assistant Superintendent for Curriculum & Instruction

Susan Downing - Director of Communications

Rob Highfill - Director of Technology

Mike Noonan - Director of Facilities & Maintenance

Dr. Derrick Wallace - Director of Student Services

Dr. Kimberly Stallons Kelly Waller Mike Tarpey

Board of Education (2018-19 School Year)

Andy Bresler - President Carolyn Jaeger - Vice President Sheldon Johnson - Treasurer Jeff Kopolow - Secretary Sheri Glantz - Director Nancy Goldstein - Director Kisha Lee - Director

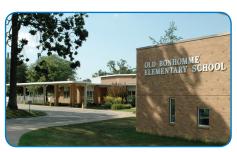
Facility Locations



Ladue Early Childhood Center Director: Kerri Wetzel 10890 Ladue Road St. Louis, MO 63141-8425 314-993-5724 | 314-432-0980 (fax)



Conway Elementary Principal: Dr. Lane Narvaez 9900 Conway Road St. Louis, MO 63124-1651 314-993-2878 | 314-994-3988 (fax)



Old Bonhomme Elementary Principal: Cheryl Kirchgessner 9661 Old Bonhomme Road St. Louis, MO 63132-4112 314-993-0656 | 314-994-3987 (fax)



Reed Elementary
Principal: Dr. Chris Schreiner
9060 Ladue Road
St. Louis, MO 63124-1902
314-991-1456 | 314-994-3981 (fax)



Spoede Elementary
Principal: Dr. Kim Stallons
425 N. Spoede Road
St. Louis, MO 63141-7715
314-432-4438 | 314-432-6098 (fax)



Ladue Fifth Grade Center Principal: Dr. Julie Helm 10900 Ladue Road St. Louis, MO 63141-8425 314-983-5540 | 314-983-5539 (fax)



Ladue Middle School
Principal: Dr. Tiffany Taylor-Johnson
9701 Conway Road
St. Louis, MO 63124-1646
314-993-3900 | 314-997-8736 (fax)



Ladue Horton Watkins High School Principal: Brad Griffith 1201 S. Warson Road St. Louis, MO 63124-1266 314-993-6447 | 314-994-1467 (fax)



Administrative Center Superintendent: Dr. Donna Jahnke 9703 Conway Road St. Louis, MO 63124-1646 314-994-7080 | 314-994-0441 (fax)



Maintenance Building Director of Facilities: Mike Noonan 9701-Rear Conway Road St. Louis, MO 63124-1646 314-994-3500 | 314-993-2979 (fax)

History of Approved Bond Levy Requests for Capital/Facility Improvements

1950	\$675,000 bond issue passed to build Ladue Horton Watkins High School.
1953	\$1.95 million bond issue passed to expand Ladue Horton Watkins High School. Included restructuring of the internal building to add 18 classrooms and an auditorium with band and chorus rooms (opened April 1955) and a swimming pool with an upper gym (opened January 1956.)
1956	(January 31) — \$3 million bond issue passed to build a junior high school, a new elementary school, twelve classrooms to be added to existing buildings and necessary auxiliary facilities to accommodate increased enrollment.
1959	(April 7) — Bond issue (amount not recorded) passed to purchase 30 acres at Ladue & Graeser roads for the purpose of erecting a second junior high school, expanding existing schools and building an Administrative Center.
1960	(February 9) — Bond issue passed for \$3.3 million for expansion of school facilities (25 classrooms at the high school), building of a second junior high, and purchasing land for two new grade schools.
1963	(February) — \$1.475 million bond issue passed to expand the high school. Included building a third hallway on the back of the school for 25 additional classrooms, adding science classrooms in the basement below the third hallway and enlarging the cafeteria and boiler room. Renovations were also made to other district buildings.
1971	(February) — \$2.56 million bond issue passed.
2001	\$40.9 million bond issue passed to expand four elementary schools and the high school including the Ramming Athletic Center; and to install and upgrade the HVAC and electrical systems in these five schools.
2007	\$29.97 million bond issue passed to renovate and expand K-12 schools, upgrade technology and improve safety and security features.
2010	\$32 million bond issue passed to purchase Westminster Christian Academy property, build a new Ladue Early Childhood Center on the property and renovate the existing building in order to open a Fifth Grade Center in the 2013-14 school year.
2016	\$85.1 million bond issue (Prop R) passed. The majority of the funds (\$82.2 million) designated for a significant renovation of Ladue Horton Watkins High School, \$2 million for improvements on other district campuses and \$900,000 to build an artificial turf field on the Ladue West Campus to replace fields displaced by construction at the high school.

Putting Past Projects in Context with Current Facility Planning Philosophy

The ultimate purpose of the Facilities Master Plan is to ensure the educational needs of Ladue Schools students are met in both the short and long term. To accomplish this goal, the Facilities Master Plan endeavors to take into account all that has been accomplished to address the needs of existing facilities, identify what remains to be done, and set forth a path for moving forward. A primary goal is to ensure facility improvements become and remain proactive, rather than reactive, by anticipating building and systems life cycles and incorporating prudent financial planning.

With the early childhood center and high school projects complete, it is now time to turn energy and focus to the district's elementary schools (including the Fifth Grade Center) and middle school to ensure these facilities are also sufficient to meet the educational and enrollment needs of the students we serve. These are the projects on which this update of the Facilities Master Plan focus.

As can be seen in the following sections, which provide more detailed breakdowns of the needs of each individual building, the next phase of the Facilities Master Plan concentrates on replacing major infrastructures components currently reaching the end of their life cycles.

Examples include:

- Window Replacement
- Fire Suppression
- ADA Accessibility Improvements
- Security Improvements
- HVAC Replacement/Improvements
- Electrical Upgrades
- Plumbing Upgrades
- Parking Improvements

In addition, several buildings need additional classrooms and larger common spaces in order to appropriately accommodate current and projected enrollment. These buildings include Old Bonhomme Elementary, Spoede Elementary and Ladue Middle School.

Sustainable Design

All planning, design and resulting construction incorporate a focus on:

- Optimal educational environments for both students and teachers
- Reduction of operational costs
- Protection of the environment

Following are examples of how the district incorporated sustainable design features into the renovation of Ladue Horton Watkins High School.

- The district received rebates and incentives from Ameren Corporation and Spire Inc. in excess of \$275,000 for incorporating certain features into the high school renovation project. These include conversion of incandescent and fluorescent lighting to LED technology, motion and timer control of the LED technology and curtain wall glazing using Low-E window systems with window shades.
- Upgrade of HVAC controls to better regulate the building's heating and cooling systems during occupied hours, while gaining energy setback savings at night and on the weekends.
- Replacement of antiquated boilers with efficient new technology gas boilers.
- Use of 3,606 square yards of carbon neutral flooring, reducing atmospheric carbon by 33 metric tons, or the equivalent of the emissions from a car traveling 80,992 miles.

As the district approaches improvements to the Fifth Grade Center during the summer of 2019, energy incentives as noted above for the high school will be employed.

The two main advantages of incorporating these and other sustainability features are increased energy efficiency and decreased routine maintenance. For example, the lifespan of LED lighting systems range from 8 to 10 years and operate at a fraction of the cost of incandescent and fluorescent lighting which last from just a few months to a few years.

In addition to incorporating these energy savings strategies for these larger projects, the Facilities Department incorporates retrofits on a smaller scale for gym, common area and exterior lighting, transitioning these systems in house, when appropriate.

Seismic Upgrades

Seismic renovations required of the district as renovations and expansions are made are included in the Facilities Master Plan. Any additional levels of upgrades to seismic enhancements still need to be discussed and identified.

Physical Specifications of Current Facilities

Buildings	Original Building	Additions	Acreage
Ladue Horton Watkins High School	1952	1953, 1961, 1965, 1971, 2002, 2009, 2018	27.25
Ladue Middle School Campus			30.8
Ladue Middle School	1959	1965, 1994, 2009	
Administrative Center	1960		
Warehouse/Maintenance	1965	1985	
West Campus	2011		30
Fifth Grade Center	2013		
Early Childhood Center	2011		
Conway	1949	1954, 1958, 1992, 2002, 2008	5.56
Old Bonhomme	1954	1956, 1959, 1991, 2002, 2008	8
Reed	1938	1954, 1991, 2002, 2006	6.1
Spoede	1949	1954, 1991, 2002, 2006	9.8

Building	Square Footage
Conway Elementary School	60,150
Old Bonhomme Elementary School	54,100
Reed Elementary School	65,465
Spoede Elementary School	64,152
Fifth Grade Center	120,722
Ladue Middle School	144,828
Ladue Horton Watkins High School	374,298
Ladue Early Childhood Center	50,000
Maintenance	14,100
Administrative Center	10,704
TOTAL	958,519

Financial Considerations

In any conversation regarding the funding of capital projects, it is important to discriminate between the uses of funds derived from the district's operating tax levy, the district's debt service (or bond) levy and other sources. Specifically, for purposes of discussion regarding the Facilities Master Plan, the following points are important to note:

- Operating taxes support the day-to-day operation of the schools, including salaries, utilities, etc. The Ladue School District's 2018 total adjusted operating tax levy is \$3.0715 and remains the lowest total adjusted operating tax levy in St. Louis County. The next lowest to Ladue School's total adjusted operating tax levy is Clayton's at \$3.2425, with Affton having the highest total adjusted operating tax levy at \$5.4694.
- A portion of the operating budget is generally set aside for capital needs such as repairs and maintenance of existing district facilities, as well as minor renovations and equipment.
- Income derived from the sale or lease of district property must be used for facility renovation or
 improvement. It cannot be used to fund the daily operations of the school district (salaries, utilities,
 transportation, etc.) However, by doing so, the district may be able to set aside fewer dollars derived from
 the operating tax levy to be placed in the capital fund and reallocate those dollars for other district operating
 purposes.
- As the Facilities Master Plan continues to be implemented, the district will take advantage of sustainable
 planning, design and construction processes to ensure the impact on the operating budget is as minimal
 as possible. While the district has little control over utility costs, sustainable design and construction will
 ensure our buildings operate as efficiently as possible from project completion through the life cycle of the
 buildings and systems.
- Debt service taxes repay bond debts incurred for facility improvements that have been previously and specifically approved by voters, as noted in the history of the district's requested and approved bond levies.
- In 2018, Ladue Schools debt service levy was set at \$.78 and was thirteenth out of the 22 districts in St. Louis County with Mehlville's being the lowest at zero, and Normandy's being the highest at \$1.7336.

Facilities Master Plan Financing

As noted in the summary and on the applicable individual building cost sheets that follow, funding for components of this project will come from various sources, some of which have already been identified and some are yet to be determined. Following is a general overview.

- Improvements to the Fifth Grade Center have already been approved by the Board of Education. Funding
 for the project will come from existing resources, including funds remaining from the Proposition R bond
 referendum and the sale of the former Ladue Early Childhood Center on Clayton Road.
- Improvements to Ladue Horton Watkins High School have already been approved by the Board, and will be funded primarily by donations garnered by the Ladue Education Foundation (LEF) and interest earned on Proposition R bond funds.
- The remaining projects, which include improvements to all four elementary schools, the middle school and
 the administrative center, are still in the planning and discussion phases. As they are refined, and if the
 Board of Education makes the decision to move forward with some or all of these plans, funding would likely
 be requested of district voters through a bond referendum.

Escalation of Construction Costs and Construction Contingencies

Projections shown in the following sections reflect 2018 costs and include a 10% contingency. A 5% inflationary factor should be added annually.

Next Steps

- 1. The Facilities Master Plan is designed to be a fluid document to be revised and expanded, as plans for implementation evolve. As discussions continue, additional information will be incorporated into the plan.
- 2. The solutions identified in this plan are recommendations developed from a high planning level. The programs and costs outlined here will need to be reviewed and significantly refined before projects are presented to stakeholders for consideration and/or implemented.
- 3. In addition, assuming the Board of Education continues to be generally in favor of proceeding with some or all of the projects encompassed in the Facilities Master Plan in whatever timeline is eventually determined administration recommends beginning a community education process immediately. As took place in the years preceding the bond levies requesting funding for a new early childhood center and renovation of the high school, significant and deliberate effort will need to be put forth to ensure the community understands the background and specific needs motivating the development and implementation of the Facilities Master Plan.



399,399

With Option Two

2,568

3,758

137

33

3,097

86,640

TBD

437,887

2,697

3,970

152

33

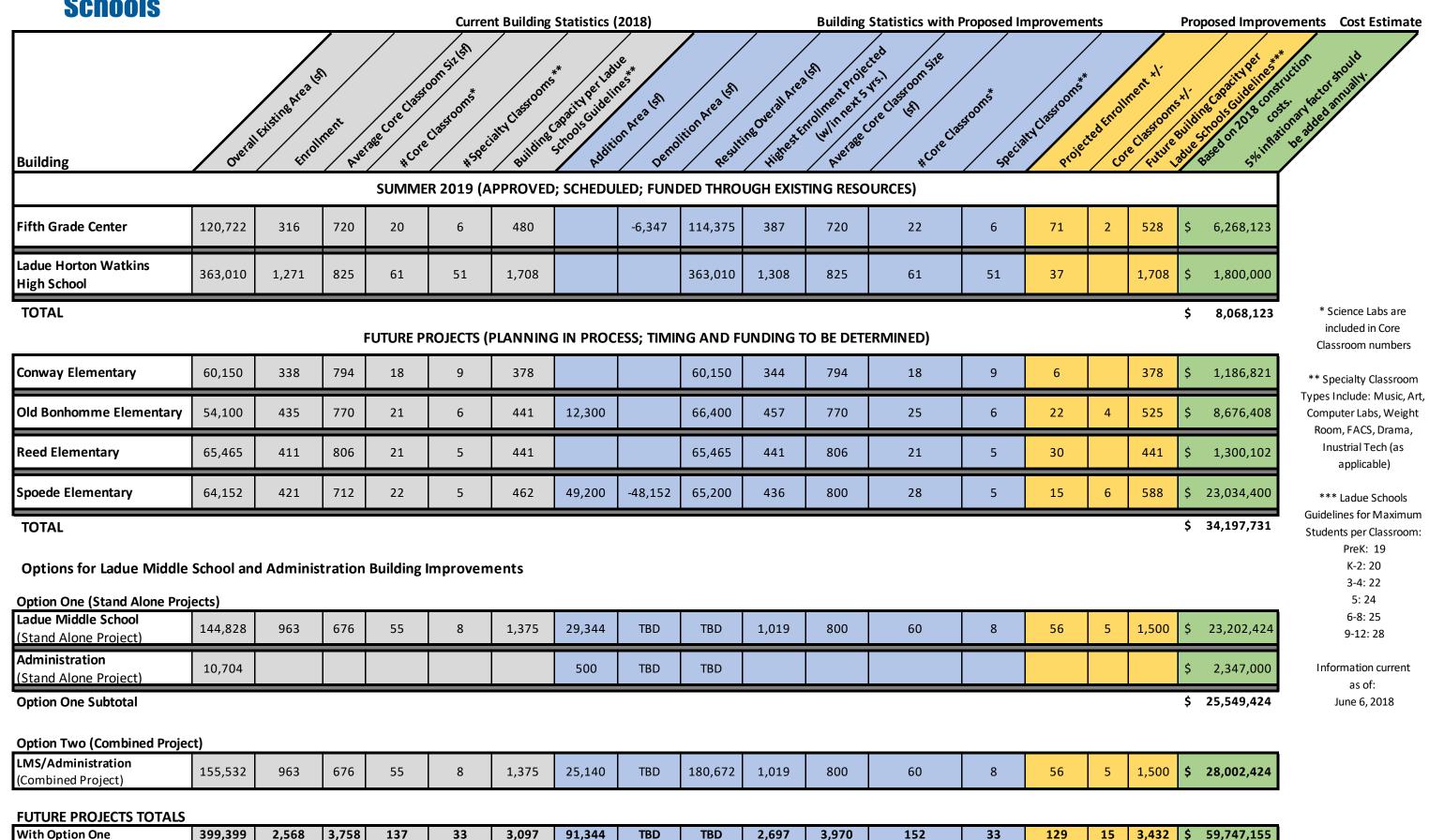
129

15

3,432

62,200,155

Ladue School District Master Plan - Building Summary



Conway Elementary School

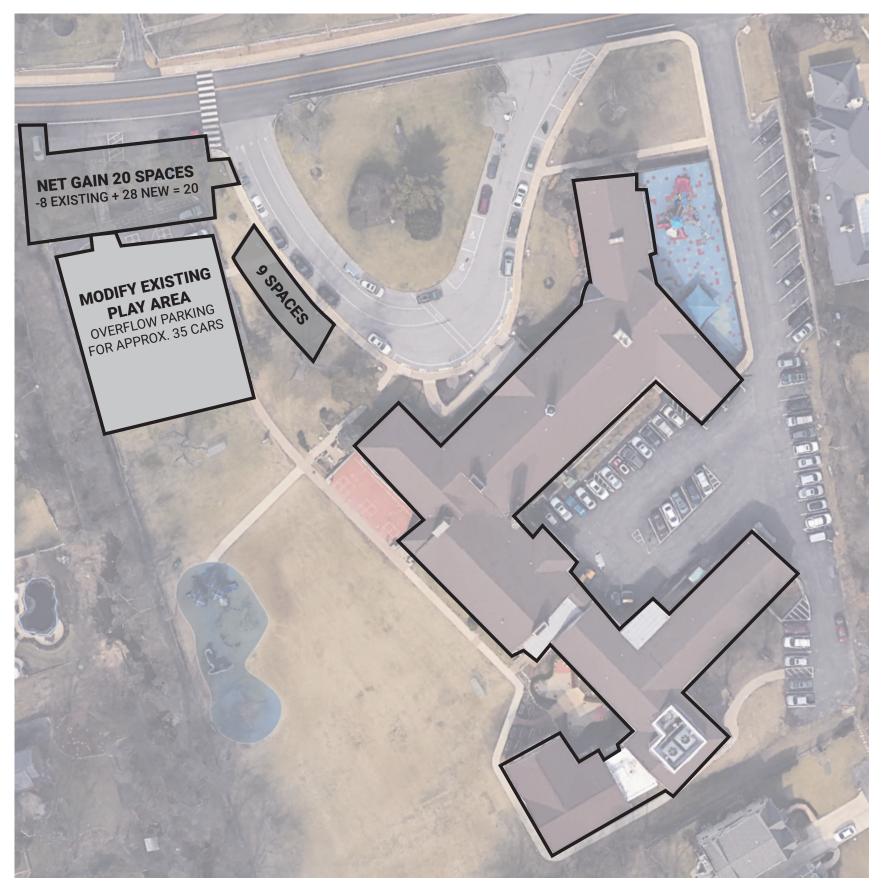
Building Overview

	Current	Proposed
Campus Size	5.56 Acres	5.56 Acres
Building Sq. Footage (sf)	60,150 sf	60,150 sf
Stories	2	2
Enrollment	338	344*
# Core Classrooms	18	18
Average Core Classroom (sf)	794 sf	794 sf
Expected Building Lifespan	50+ years	50+ years

Needs

Space Needs	General Facility Needs
(None)	Window Replacement
	Fire Suppression
	Expanded Parking

Cost Estimate: \$1,186,821





Old Bonhomme Elementary School

Building Overview

	Current	Proposed
Campus Size	8 Acres	8 Acres
Building Sq. Footage (sf)	54,100 sf	66,400 sf
Stories	1	1
Enrollment	435	457
# Core Classrooms	21	25
Average Core Classroom (sf)	770 sf	770 sf
Expected Building Lifespan	40+ years	40+ years

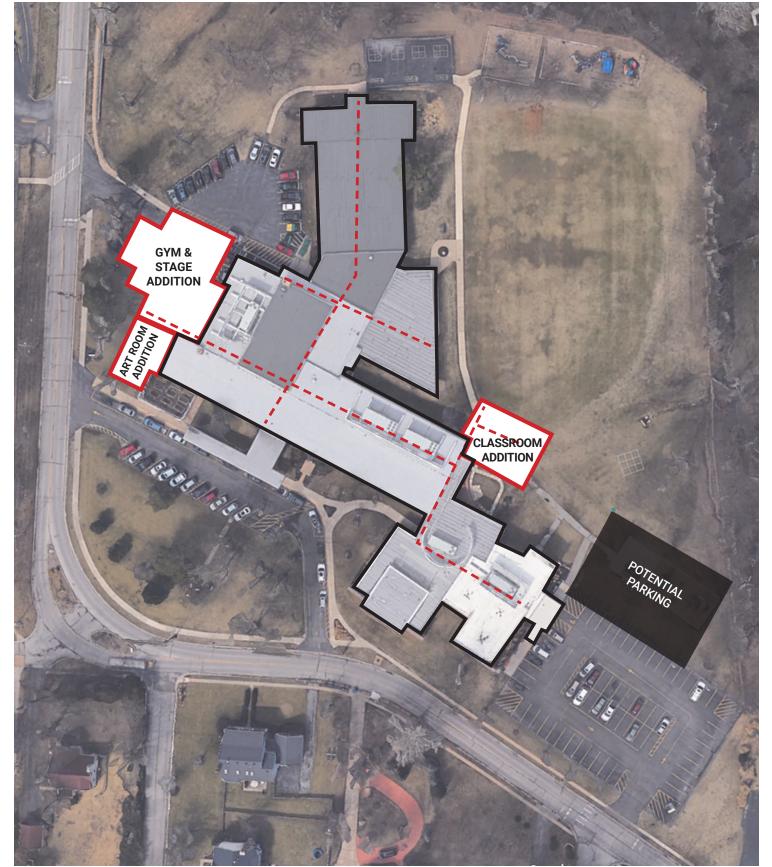
Needs

Space Needs	General Facility Needs
Spaces currently below MSIP Standards:	Window Replacement
- Gym: (2,384)	Fire Suppression
- Cafeteria: (544)	ADA Improvements
- Library: (238)	Minor Abatement
- Art Room: (189)	Minor Security Improvements
- Nurse's Suite: (388)	Signage
	Exterior Lighting
Science Lab	Parking Improvements
Classrooms (4)	Seismic Retrofits

Recommended Solutions

Space Solutions	General Facility Solutions
Gym addition w/stage and art room (8,300 sf)	Replace Windows
Renovate existing gym into cafeteria (serve out of existing kitchen)	Renovate classroom into science lab
Renovate existing cafeteria into multipurpose space	Reconfigure nurse's suite
Move classroom function out of library	Install fire suppression
Renovate art room into classroom	Seismic retrofits
4 additional core classrooms (800 sf each)	Signage
Additional art room addition	Reconfigure parking
	Exterior lighting
	Minor ADA improvements

Cost Estimate: \$8,676,408





Reed Elementary School

Building Overview

	Current	Proposed
Campus Size	6.1 Acres	6.1 Acres
Building Sq. Footage (sf)	65,465 sf	66,400 sf
Stories	3	1
Enrollment	411	441
# Core Classrooms	21	21
Average Core Classroom (sf)	806 sf	806 sf
Expected Building Lifespan	50+ years	50+ years

Needs

Space Needs	General Facility Needs
(None)	Nurse's Suite Reconfiguration
	Window Replacement
	Fire Suppression

Cost Estimate: \$1,300,102





Spoede Elementary School

Building Overview

	Current	Proposed
Campus Size	9.8 Acres	9.8 Acres
Building Sq. Footage (sf)	64,152 sf	65,200 sf
Stories	3	1
Enrollment	421	436
# Core Classrooms	22	28
Average Core Classroom (sf)	712 sf	800 sf
Expected Building Lifespan	< 10 years	50+ years

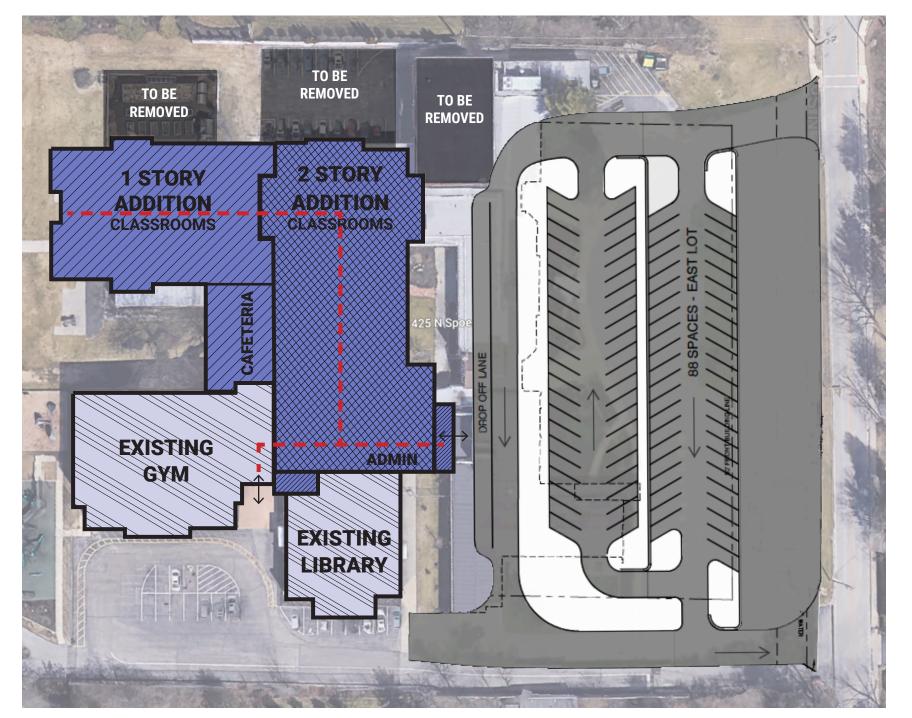
Needs

Space Needs	General Facility Needs
Classrooms (6)	 Building has differential settlement
	 Poor site utilization
	 Inadequate traffic circulation and limited room for future expansion

Recommended Solutions

Space Solutions	General Facility Solutions
6 additional core classrooms	New entrance
New administration spaces	Renovate existing spaces at connection to new construction
New cafeteria	Improve and expand site drop off and east parking lot
Specialist classrooms	Improvements at existing south parking lot
Multipurpose space	Overflow parking lot turned back into play space
	Will meet MSIP, building and seismic codes
	New exterior signage
	During construction (20-24 months), front half of existing building may be able to stay operational. If this is desired, modular classrooms will be needed.

Cost Estimate: \$23,034,400





Fifth Grade Center

Building Overview

	Current	Proposed
Campus Size	30 Acres	30 Acres
Building Sq. Footage (sf)	120,722 sf	114,375 sf
Stories	3	1
Enrollment	316	387
# Core Classrooms	20	22
Average Core Classroom (sf)	720 sf	720 sf
Expected Building Lifespan	50+ years	50+ years

Needs

Space Needs	General Facility Needs
Classrooms (2)	Fire Suppression
Natatorium unused	Air condition 1960 wing
	Replace classroom air conditioning units in 1999 wing
(Portions currently used for administrative offices)	ADA improvements
	Security upgrades

Recommended Solutions

Space Solutions	General Facility Solutions
Demolish natatorium building or renovate to storage	Fire Suppression (entire facility)
	Air condition (entire facility)

Cost Estimate: \$6,268,128





Ladue Middle School

Option 1 - Stand Alone Project

Building Overview

	Current	Proposed
Campus Size	30.8 Acres	30.8 Acres
Building Sq. Footage (sf)	144,828 sf	169,172 sf
Stories	2	2
Enrollment	963	1,019
# Core Classrooms	55	60
Average Core Classroom (sf)	676 sf	800 sf
Expected Building Lifespan	50+ years	50+ years

Needs

General and elective classrooms are small and crowded

Additional classrooms needed

No room for additional growth

No dedicated SSD classrooms

Additional building storage needed

Corridors congested during passing time

Library below MSIP standards (-2,826 sf)

Multipurpose/student commons

Acoustic separation between cafeteria and kitchen

for use after lunch

General Facility Needs

Window replacement in original building

ADA improvements

Signage

Seismic retrofits

Redundant chiller

Recommended Solutions

Space Solutions

Enhanced security at entrance

2-Story classroom addition

Renovate 1st and 2nd floor of original building

- Combine 3 classrooms into 2 larger classrooms
- Add storage
- · Increase width of corridor

Renovate 1st floor of original building

 Convert classrooms to administrative, counseling and nurse office space, SSD classrooms

Expand media center and convert adjacent classrooms to media center support spaces

Expand Elective space into former administrative offices

Expand former LMS administrative office space to use for elective

classrooms

Cost Estimate: \$23,202,424

General Facility Solutions

Gym entry plaza

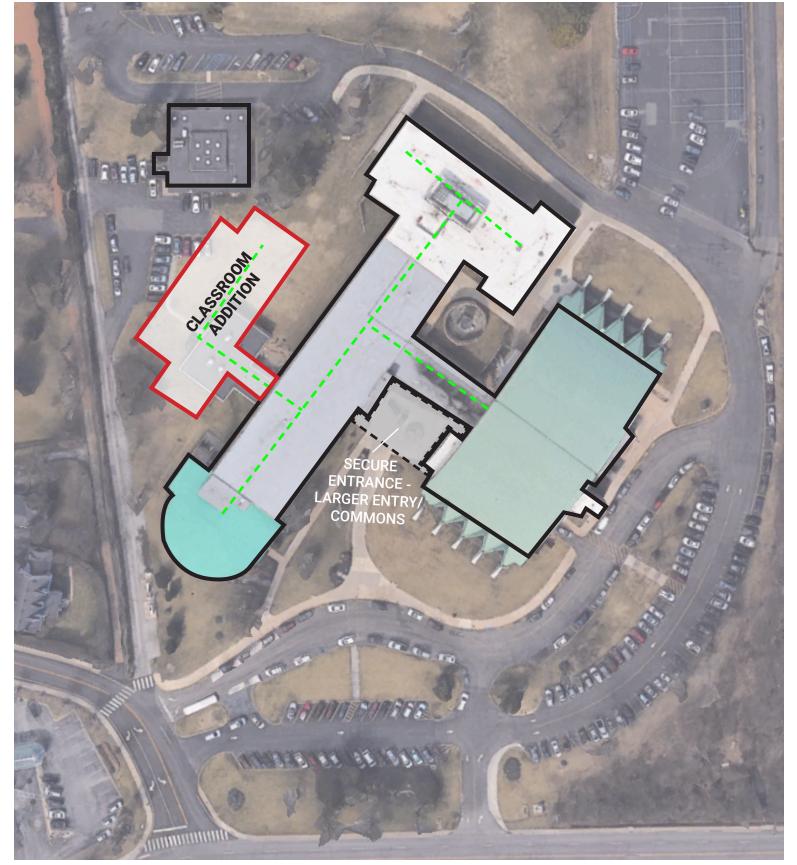
Replace windows in original building

Renovate science rooms in original building

Signage

Minor ADA improvements

Minor security improvements





Ladue Middle School/Administrative Center

Option 2 - Combined Project

Building Overview

Ladue Middle School			
Current	Proposed		
30.8 Acres	30.8 Acres		
144,828 sf	169,172 sf		
2	2		
963	1,019		
55	60		
676 sf	800 sf		
50+ years	50+ years		
	Current 30.8 Acres 144,828 sf 2 963 55 676 sf		

Administrative Center			
	Current	Proposed/Projected	
Campus Size	30.8 Acres	30.8 Acres	
Building Sq. Footage (sf)	10,704 sf	11,500 sf	
Stories	2	2	
Enrollment	N/A	N/A	
# Core Classrooms	N/A	N/A	
Average Core Classroom (sf)	N/A	N/A	
Expected Building Lifespan	< 10 years	50+ years	

Needs

Ladue Middle School

Space Needs

- General and elective classrooms are small and crowded
- · Additional classrooms needed
- · No room for additional growth
- · No dedicated SSD classrooms
- Additional building storage needed
- Corridors congested during passing time
- Library below MSIP standards (-2826 sf)
- Multipurpose/student commons
- · Acoustic separation between cafeteria and kitchen for use after lunch

General Facility Needs Window replacement

- in original building ADA improvements
- Signage
- Seismic retrofits
- Redundant chiller

Space Needs

- · Not enough offices at this
- Offices are outdated and many
- Circular Board Room is inefficient ADA improvements,
- separated with professional development and other offices at the Fifth Grade Center and the Technology Department at the

- Overcrowded
- location for current staff
- are of insufficient size
- Interdependent offices are high school

Administrative Center

- **General Facility Needs** · Window replacement
- · New HVAC, plumbing, electric and lights
- Fire suppression
- Fire alarm
- including elevator

Recommended Solutions

Ladue Middle School

Space Needs

- · Enhanced security at entrance
- · 2-story classroom addition Renovate 1st and 2nd floor of original
- o Combine 3 classrooms into 2 larger classrooms
- Add storage
- Increase width of corridor
- · Renovate 1st floor of original building
- o Convert classrooms to Administrative, Counseling and Nurse office space, SSD classrooms
- Expand media center and convert adjacent classrooms to media center support spaces
- · Expand former LMS admin office space to use for Elective classrooms

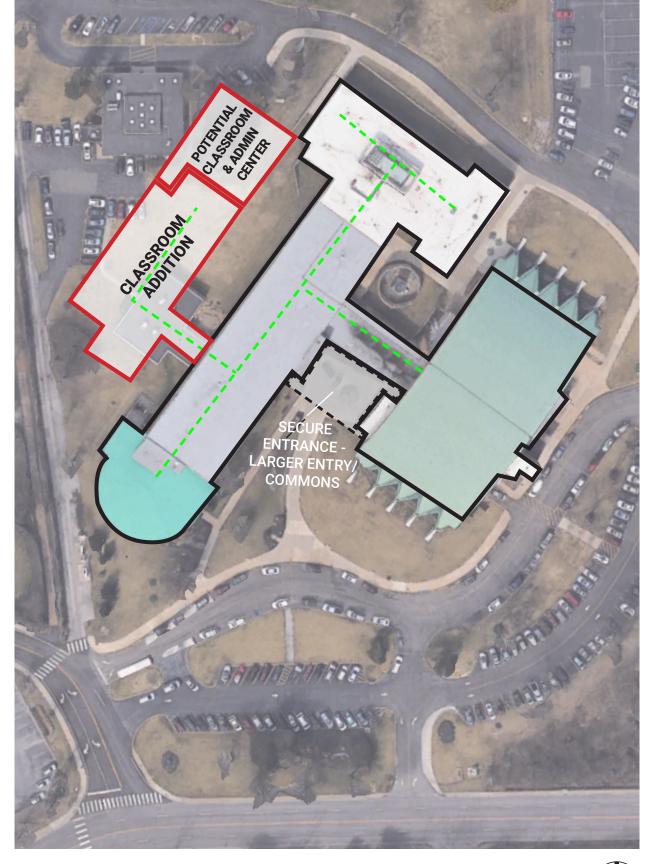
General Facility Needs

- Secure entrance/ commons expansion
- Replace windows in original building
- · Renovate science rooms in original building
- Signage
- Minor ADA improvements
- Minor security improvements

Administrative Center

Space Needs General Facility Needs

- · Right-size office and conference room spaces to accommodate administrative and support staff and meeting room needs
- · New infrastructure, including HVAC, plumbing, electric and lights, fire suppression, fire alarm
- · ADA compliant





Cost Estimate: \$28,002,424

Ladue Horton Watkins High School

Building Overview

	Current	Proposed
Campus Size	27.25 Acres	27.25 Acres
Building Sq. Footage (sf)	363,010 sf	363,010 sf
Stories	3	3
Enrollment	1,271	1,308
# Core Classrooms	61	61
Average Core Classroom (sf)	825 sf	825 sf
Expected Building Lifespan	50+ years	50+ years

Needs

Space Needs

- Additional restrooms based on new stadium capacity
- Health classrooms

General Facility Needs

- Additional surveillance cameras
- Update of Neilson Gym lobby
- Update stairwells
- · Renovation of Fitness Center
- Adequate new/renovated concessions

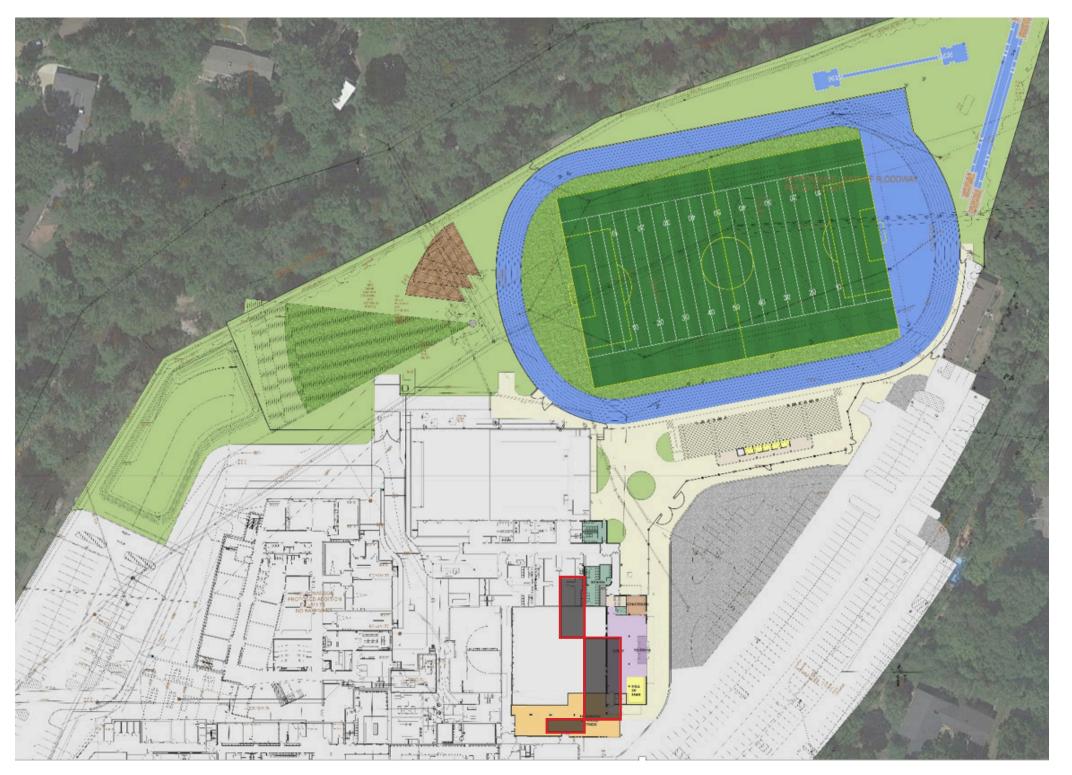
Recommended Solutions

Space Solutions

- Reconfigure locker rooms space in the Ramming Center to accommodate additional restrooms
- Reconfigure space used by construction management during renovation for health classrooms

General Facility Solutions

- Provide concession area to service both Nielson Gym and stadium and West Gymnasium attendees
- Renovate Fitness Center in line with athletic and physical education programming, as well as community use
- Cosmetic renovation of remainder of Nielson lobby and associated stairwells





Cost Estimate: \$1,800,000

Administrative Center

Option 1 - Stand Alone Project

Building Overview

	Current	Proposed
Campus Size	Part of LMS Campus	Part of LMS Campus
Building Sq. Footage (sf)	10,704 sf	11,500 sf
Stories	2	2
Expected Building Lifespan	< 10 years	50+ years

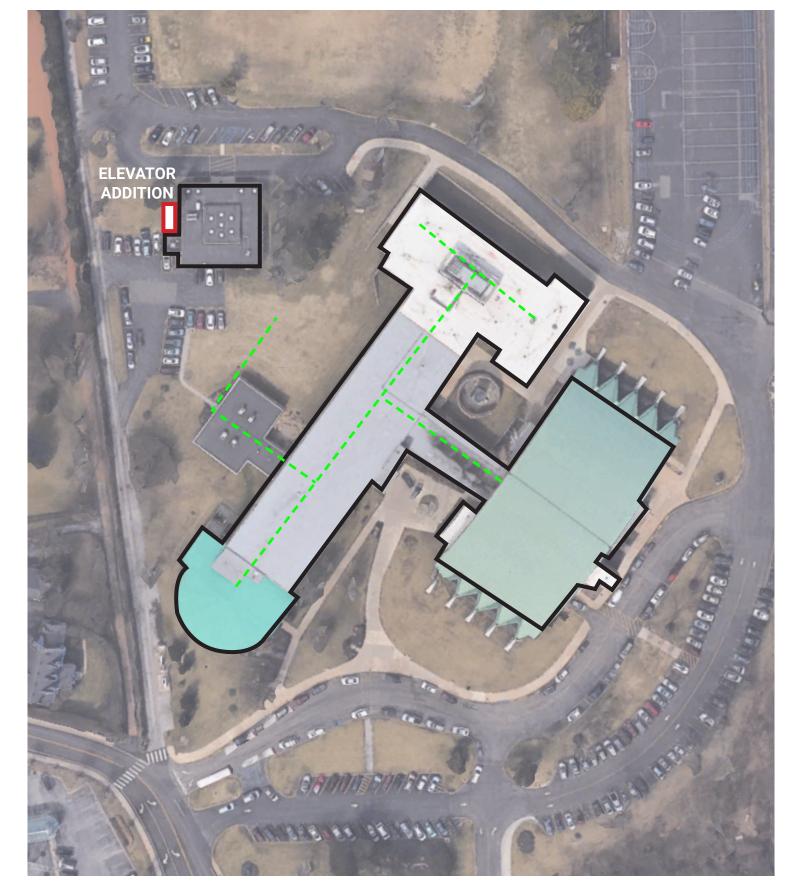
Needs

Space Needs	General Facility Needs
Overcrowded	New HVAC, plumbing, electric and lights
Not enough offices at this location for current staff	Fire suppression
Offices are outdated and many are not of sufficient size	Fire alarm
Circular Board Room is inefficient	ADA improvements, including elevator
Interdependent offices are separated with professional development and other offices at the Fifth Grade Center and the Technology Department at the high school	

Recommended Solutions

Space Solutions	General Facility Solutions
Removal and renovation of round Board Room to allow	Renovate existing building
for more efficient office layout and larger conference room	Upgrade HVAC, electrical, plumbing
	Elevator addition
	Install fire suppression
	Install fire alarm

Cost Estimate: \$2,347,000





Ladue Master Plan Cost Estimate by Building Conway Elementary School

Improvement	Size	Unit	Cost		Total*		Notes
Replace Windows	3,815	sf	\$	75	\$	314,738	1
Fire Suppression	60,150	sf	\$	7	\$	463,155	
ВМР				Allowance	\$	200,000	2
Additional Parking (New Lot)	8,300	sf	\$	6	\$	51,128	
Additional Parking (Off Circle Drive)	2,500	sf	\$	6	\$	15,400	
School Saftey - Classroom Intruder Door Hardware				Allowance	\$	32,400	
School Saftey - Other Items				Allowance	\$	110,000	
Conway Elementary Total					\$	1,186,821	

Estimates are based on 2018 construction costs. A 5% inflationary factor should be added annually to estimated costs.

- * Includes 10% contingency
- 1 Utility usage will decline with replacement
- 2 MSD storm water management requirement

Ladue Master Plan Cost Estimate by Building Old Bonhomme Elementary School

Improvement	Size	ı	Unit	Cos	t	Total*	:	Notes
Replace Windows	3,98	0 9	sf	\$	75	\$	328,350	1
Gym Addition	7,12	0 9	sf	\$	180	\$	1,409,760	
Art Classroom Addition	1,18	0 9	sf	\$	240	\$	311,520	
Classroom Addition	4,00	0 9	sf	\$	240	\$	1,056,000	2
Utility Relocation					Allowance	\$	22,000	
ВМР					Allowance	\$	200,000	3
Renovate Gym into Cafeteria	3,05	0 9	sf	\$	140	\$	469,700	4
Reconfigure Nurse's Office	60	0 9	sf	\$	480	\$	316,800	
Renovate Former Art Classroom into Classroom	91	.0 s	sf	\$	120	\$	120,120	
Add Classroom windows at new addition					Allowance	\$	14,300	
Install Fire Suppression	54,16	0 9	sf	\$	7	\$	417,032	
Hazardous Material Abatement					Allowance	\$	35,000	
New Fire Alarm Panel					Allowance	\$	15,000	
New HVAC System	54,16	0 9	sf	\$	26	\$	1,548,976	
Interior Signage					Allowance	\$	11,000	
Additional Parking - East (Including Retaining Wall)	18,00	0 9	sf	\$	9	\$	173,250	5
ADA Renovations					Allowance	\$	30,800	
FEMA Safe Room	4,00	0 9	sf	\$	480	\$	2,112,000	6
School Safety - Classroom Intruder Door Hardware					Allowance	\$	34,800	
School Safety - Other Items					Allowance	\$	50,000	
Old Bonhomme Elementary Total						\$	8,676,408	

Estimates are based on 2018 construction costs. A 5% inflationary factor should be added annually to estimated costs.

- * Includes 10% contingency
- 1 Utility usage will decline with replacement
- 2 4 classrooms and hallway
- 3 MSD storm water management requirement
- 4 Reconfigure existing kitchen to serve new cafeteria
- 5 Retaining wall requirement
- 6 600 People x 5 sf/person = 3,000 sf gym to be safe room

Ladue Master Plan Cost Estimate by Building Reed Elementary School

Improvement	Size	Uı	nit	Cost	Total*	Notes
Replace Windows	2,852	sf	\$	75	\$ 235,290	1
Reconfigure Nurse's Office	600	sf	\$	480	\$ 316,800	
Install Fire Suppression	86,599	sf	\$	7	\$ 666,812	2
School Safety - Classroom Intruder Door Hardware				Allowance	\$ 31,200	
School Safety - Other Items				Allowance	\$ 50,000	
Reed Elementary Total					\$ 1,300,102	

 $Estimates\ are\ based\ on\ 2018\ construction\ costs.\ \ A\ 5\%\ inflationary\ factor\ should\ be\ added\ annually\ to\ estimated\ costs.$

- * Includes 10% contingency
- 1 Utility usage will decline with replacement
- 2 includes 21,134 sf of attic

Ladue Master Plan Cost Estimate by Building Spoede Elementary School

Improvement	Size	Unit	Cost	Total*	Notes
Build New Elementary School	65,200	sf	\$ 240	\$ 17,212,800	1
Reuse Existing Gym, Media Center and Adjacent Recent					
Additions	16,000	sf	\$ (200)	\$ (3,520,000)	2
ВМР			Allowance	\$ 360,000	3
Hazardous Material Abatement			Allowance	\$ 120,000	
Demo Remaining Existing Building			Allowance	\$ 440,000	
Renovate Existing Spaces at New Connection	4,500	sf	\$ 200	\$ 990,000	4
New East Parking Lot / Site Work			Allowance	\$ 462,000	
Improvements at Existing South Parking Lot			Allowance	\$ 61,600	
Exterior Signage			Allowance	\$ 11,000	
Furniture	1		Allowance	\$ 550,000	5
Include FEMA Safe Room	4,000	sf	\$ 480	\$ 2,112,000	6
Spoede Elementary Sub-Total				\$ 18,799,400	
Modular classrooms during construction (28 Total)	14	Units	\$ 275,000	\$ 4,235,000	7
Each unit = 2 Classrooms					
Spoede Elementary School Total				\$ 23,034,400	

Estimates are based on 2018 construction costs. A 5% inflationary factor should be added annually to estimated costs.

- * Includes 10% contingency
- 1 Maintain recent additions
- 2 Credit for keeping existing spaces
- 3 MSD storm water management requirement
- 4 Library size will increase
- 5 New Furniture
- 6 688 People x 5sf/person = 3,440 sf Cafeteria as Safe Room
- 7 Additional new trailers

Fifth Grade Center Cost Sheet Project Scheduled for Summer 2019

The Board of Education approved this project on March 11, 2019, for completion in the summer of 2019. Funding for the project will come from existing resources including funds remaining from the Proposition R bond referendum and the sale of the former Ladue Early Childhood Center on Clayton Road.

The district's contract with Ameresco, Inc. was amended to include this project at a cost of \$6,268,123 with the scope of the project as follows:

General Scope

- Fire and life safety systems
- Upgraded fire panel and devices where applicable
- 100% fire suppression
- Intruder resistant film at main entry
- Front office presence at main entry
- Replacement of approximately 100 windows with new efficient low E units
- Replacement of glass curtain wall at cafeteria with knee wall and intruder resistant glass system. Glass will also have tinted windows to reduce visibility inside
- Slab to slab demising walls throughout facility to provide corridor fire rating as well as return plenum
- Repurpose pool area into district storage

Lighting

- LED retrofit for entire facility (combo of new and retrofitted)
- Elimination of battery inverter (emergency lighting will now be self-contained)
- All classrooms receive 60/40 dimmable new fixtures to replace existing up-light fixtures
- Other fixtures to be either renovated or replaced with appropriate type fixtures/retrofit kits
- Motion detection, light harvesting applications to be incorporated as required by code

HVAC

- 1965 wing will have total climate control
- All new rooftop units for makeup and delivered air for entire facility including new gym
- 51 heat pumps will supply conditioned filtered air to the individual rooms. Gyms and cafeteria will be supplied by RTU's and air handlers

- Reuse existing district installed air handler/incorporate electric heat for cafeteria
- Rebuild one fluid cooler/add additional in tower well

Electrical

 New right-sized distribution and branch circuiting for 1965 wing and replacement of non-grounded panels and distribution system with grounded three-phase system to accommodate additional heat pumps

Ladue Master Plan Cost Estimate by Building Ladue Middle School - Option I (Stand Alone Project)

Improvement	Size	Uni	t	Cost	Total*	Notes
Demolish Existing One-story Wing	5,000	sf	\$	12	\$ 66,000	
Seismic				Allowance	\$ 500,000	
Add Wing of Classrooms to Northwest	29,344	sf	\$	240	\$ 7,746,816	1
Secure Entrance/Multipurpose	6,000	sf	\$	220	\$ 1,320,000	
Replace Windows in Original Building	5,931	sf	\$	75	\$ 489,308	2
Interior Signage				Allowance	\$ 15,000	
Enlarge Media Center / Computer Lab				Allowance	\$ 28,000	
BMP				Allowance	\$ 350,000	3
Renovate Original Building Classrooms	40,600	sf	\$	120	\$ 5,359,200	4
Kitchen / Cafeteria Minor Modifications				Allowance	\$ 15,000	5
Replace Existing Chairlifts				Allowance	\$ 82,500	6
Mechanical				Allowance	\$ 500,000	7
Abatement of Hazardous Material				Allowance	\$ 500,000	
Include FEMA Safe Room	5,500	sf	\$	480	\$ 2,904,000	8
School Safety - Classroom Intruder Door Hardware				Allowance	\$ 81,600	
School Safety - Other Items				Allowance	\$ 220,000	9
Ladue Middle School Sub-Total					\$ 20,177,424	
Modular Classrooms during Construction	10	units	\$	275,000	\$ 3,025,000	
Ladue Middle School Grand Total					\$ 23,202,424	

Ladue Middle School - Option 2 (House Administrative Center w/in Middle School)

Improvement	Size	Unit	Cost	Total* Notes
Wing to House Administrative Center and Classrooms	20,000	sf \$	240 \$	4,800,000

Estimates are based on 2018 construction costs. A 5% inflationary factor should be added annually to estimated costs.

- * Includes 10% contingency
- 1 Similar in size to eighth-grade wing
- 2 Utility usage will decline with replacement
- 3 MSD storm water management requirement
- 4 Classrooms, Admin/Nurse office
- 5 Acoustic separation, rolling gates & ceiling modifications
- 6 \$15,000 each, assuming 5
- 7 Redundant chiller
- 8 Classrooms as Safe Room 1,100 x 5sf/person = 5,500
- 9 Secure entrance

Ladue Horton Watkins High School Cost Sheet Project Scheduled for Summer 2019

The projects outlined below are being prepared for implementation. This project was approved by the Board of Education on April 9, 2019. The project is anticipated to cost \$1.8 to \$2 million and will be funded primarily by donations garnered by the Ladue Education Foundation (LEF) and interest earned on Proposition R bond funds.

Using a conservative estimate of \$1.8 million to continue the planning process, the specific components of the project are as follows:

Contracted Construction

Health Classrooms (Not to exceed \$125,000). The high school has seven sections of Health as a state requirement. This will provide the program with a dedicated space beginning in the 2019-20 school year.

Restrooms / Concessions / Stairways / Halls / Nielson Lobby (Not to exceed \$1,425,000). The need for restrooms and concessions to accommodate the stadium will intensify in the fall. St. Louis County code requires a specific count of toilets per the number of spectators the stadium will accommodate. The stadium bleacher system capacity is 2,002 people.

A cosmetic renovation of paint, floor covering, ceilings, and fixtures in the adjacent stairways, hallways and the lobby will occur. The east restroom in the lobby is currently being evaluated for demolition to provide additional space. Updated trophy cases will be constructed, as well.

Projects Overseen by the District (Not a contractor)

Surveillance cameras for the high school and West Campus (FGC) exteriors, as well as additional video coverage in the interior of the high school. (Not to exceed \$150,000)

Fitness Center Renovation (Labor and materials funded by district operating budget)

Feasibility Study for all other district buildings cited for improvements in the Facilities Master Plan. (Not to exceed \$100,000)

Ladue Master Plan Cost Estimate by Building Administrative Center

Renovate Existing Building*	Size	Unit	Cost	Total**	Notes
Elevator Addition			Allowance	\$ 275,000	
Fire Suppression	11,000	Sf	\$ 7	\$ 84,700	
Fire Alarm Panel			Allowance	\$ 15,000	
Mechanical	11,000	Sf	\$ 26	\$ 314,600	
Roof Replacement	11,000	Sf	\$ 23	\$ 278,300	
Renovate Interior Spaces - Optional	11,000	Sf	\$ 100	\$ 1,210,000	
Replace Lighting w/ LEDs - Optional	11,000	Sf	\$ 14	\$ 169,400	1
Total Administration Building				\$ 2,347,000	

^{*} See Ladue Middle School Phase II for option to demolish existing building and rebuild as annex to Ladue Middle School.

^{**} These estimates are based on 2018 construction costs. A 5% inflationary factor should be added annually to estimated costs.

^{1 -} Including heavy abatement