



February 28, 2022

RECOMMENDATION TO THE

BOARD OF EDUCATION

PRESENTED BY:

Project Steering Committee



Matt Aldrich	Instruction, Athletics, Parent
Mike Beach	Technology, Parent
Pam Behling	Finance
Keith Carpenter	Principal
Nick Chase	Operations/Maintenance, Parent
Lauren Christensen	Administration
Chris Duits	Athletics, Parent, Community
Jodi Duits	Curriculum, Instruction, Assessment, Parent
Duane Geiger	Community, Arts
Don Hoaglin	Principal
Matt Markwart	Instruction, Athletics, Parent
Tammy Marriott	Instruction
Adam Noaeill	Instruction, Arts
Mike Quinn	Assistant Principal/Athletics
Frank Pytlowany	(Former) Board of Education, Community
Steve Skalka	Superintendent
Darin Weller	Board of Education
Steve Williams	Principal

Board of Education Members:

In December 2021, we volunteered to become a part of Lakewood Public Schools' Project Steering Committee with the charge of creating a vision for facilities that would maximize operational efficiencies, preserve building infrastructure, and support a culture of academic excellence and success for all students. Our passion and dedication to create a vision for Lakewood Public Schools has been evident from the start! While we came together as individuals, through our collective voices we have worked to develop a cohesive vision for the District that reflects our need to enhance our learning environments to provide students with the spaces, tools, and resources they will need to prepare them properly for the next steps in their education and lives.

This report sets out, in detail, the work that transpired in several meetings over the past two and a half months. We learned about the state of our current facilities and programs, the way that learning environments can enhance student performance, and school funding. After a thorough understanding of our situation and prioritizing goals and objectives for our facilities of the future, we reviewed and analyzed various concepts to bring us in line with that vision.

To refine our direction and ultimate recommendation for Board review, information was presented to each of the four school buildings' staff, an opportunity for their feedback was subsequently provided, and a focus group with select community leaders, referred to as "Dinner and Discussion" was held throughout the months of January and February 2022.

Throughout this process, we have kept excellence in education for ALL students in the forefront of our minds. After these months of focused work, we strongly believe that our recommendation is the best path forward. We hope that you gain a glimpse of our journey through our presentation to you and can feel the strength of our belief in the recommendation we present today.

Thank you for this opportunity to address the needs of our school facilities and to create a vision focused on forward-thinking, educational best practices that will benefit our students and our community for many years to come.

Respectfully submitted on behalf of the entire Project Steering Committee



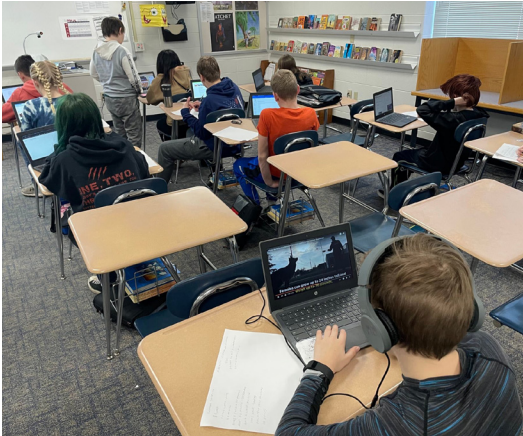
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The real voyage of
discovery consists not in
seeking new lands but
seeing with new eyes.

- MARCEL PROUST

***PROJECT STEERING
COMMITTEE
FORMATION***



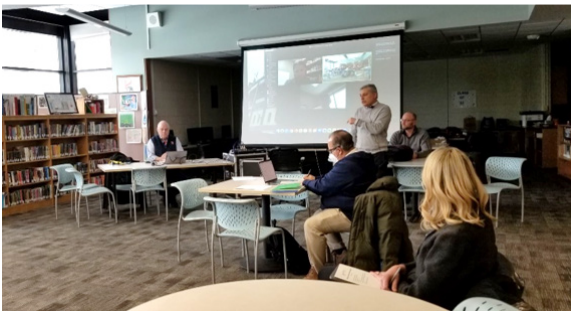
Committee Formation & Charge

The Project Steering Committee was developed to work directly with the District's professional team to review and analyze Lakewood Public Schools' facilities and propose a recommendation to the Board of Education for necessary upgrades/improvements to the District facilities. Keeping in mind the Core Values of the Lakewood Public Schools Strategic Plan, which are "Respect, Responsibility, Safety, Excellence, Trust, and Community", the committee was recruited and presented with the following charge:

"To critically interpret information and bring consensus to a strategic plan for upgrading educational facilities and learning environments that foster a culture of academic excellence and workforce readiness, where all students become lifelong learners.

The Committee will work toward developing a bond program recommendation at the conclusion of their analysis process for the Board of Education's consideration."





List of Members

Matt Aldrich	Instruction, Athletics, Parent
Mike Beach	Technology, Parent
Pam Behling	Finance
Keith Carpenter	Principal
Nick Chase	Operations/Maintenance, Parent
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Steve Skalka	Superintendent
Darin Weller	Board of Education
Steve Williams	Principal



Acknowledgements

The Project Steering Committee would like to acknowledge the following companies and team for their guidance and support to our committee during this process:

- TMP Architecture, Inc.
- Granger Construction
- PFM Asset Management LLC
- Thrun Law Firm, P.C.





***PATH TO THE
RECOMMENDATION***



Path to the Recommendation

The Project Steering Committee (PSC) has worked diligently over the past two and a half months to analyze a great deal of information shared by the District, professional architectural team, the District's financial consultant, and community members. The PSC's objective was to formulate a recommendation that would allow the District to implement changes to its facilities in order to improve utilization, correct infrastructure deficiencies, provide modern learning environments for all students, and ultimately increase opportunities and enhance performance for every student.

This report outlines the work that transpired during the committee's meetings and community presentations. The process encompassed two main parts: Discovery and Exploration. The focus of the Discovery Phase included research and analysis in the following areas:

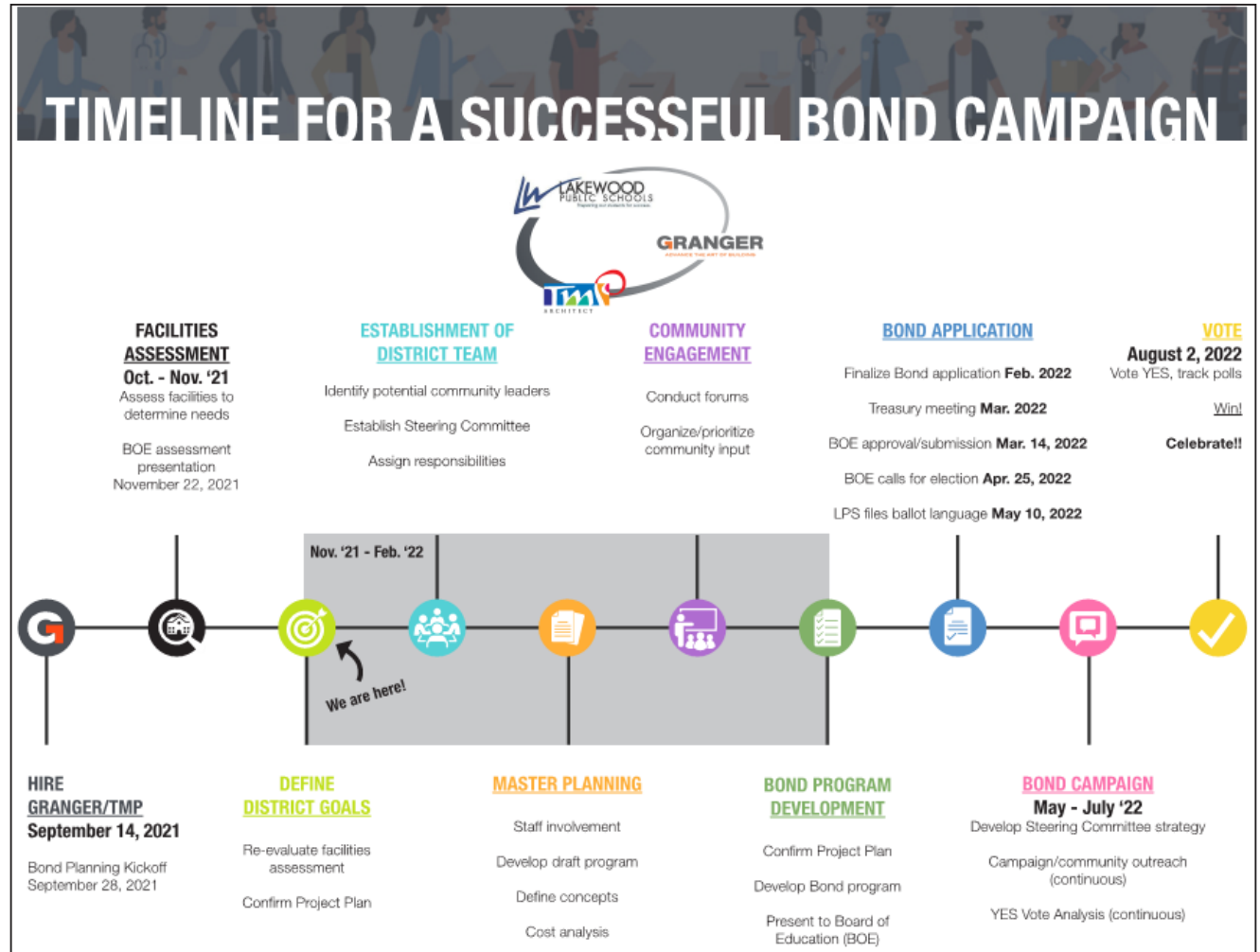
- District Mission, Vision, Promise, and Core Values
- Facilities and Program Assessments
- Review of Modern Learning Environments
- School Construction Financing Options





Path to the Recommendation (continued)

The following graphic describes the process we undertook. Detailed information and deliverables of each meeting are included in the report's Appendices. The following pages describe the highlights and activities of the process that lead to our recommendation.





Discovery

District Vision, Mission, and Promise

At the first Project Steering Committee meeting, Superintendent Steve Skalka presented the committee with the Strategic Plan for LPS and the overall charge of the committee, sharing the very critical role this committee would play in setting the vision for the future of facilities, technology, and learning environments for the District.

The following Vision, Mission, and Promise were shared with the Committee.

Lakewood Public Schools' Vision: As a community we will: Educate, Empower, and Equip our Students for Life

Lakewood Public Schools' Mission: Preparing our Students for Success

Lakewood Public Schools' Promise: Every Student, Every Class, Every Day

Bond Theme "Big Ideas" were presented by Superintendent Skalka:

- Safety and Security
- Competitive Advantage
- Fiscal Responsibility



Discovery

Facility and Program Assessment

In September of 2021, LPS hired Granger Construction and TMP Architecture, who immediately began a process to identify current facility needs for all Lakewood Public Schools buildings. The District engaged a team of professional consultants to perform a physical assessment of each school building. The evaluation team of TMP Architecture and Granger consisted of architectural, mechanical, plumbing, electrical, technology, civil, and sports facilities professionals who assessed each facility based on needs to bring it up to 2022 standards.

The Program Assessment was a parallel effort to the Facility Assessment. The professional team toured each school and met with all principals to evaluate the spaces in each building to understand what worked well for educational objectives. Where spaces did not work, the team evaluated what was needed in the building to support those objectives. An in-depth understanding of program deficiencies and curricular goals was necessary to determine how to best make use of existing facilities and to identify where there was a need to augment those facilities with renovations and/or additions.

Lakewood Public Schools 2022 Bond Program



Potential Scope of Work

High School

1. MEP
 - a. Floor drain cleanout outside of cafeteria inefficient
 - b. Original Gym: Lighting can only be controlled from electrical panel because there are no light switches. Panel and conduits are concealed in block wall so either surface boxes and conduit will be needed or wall cutting and patching.
 - c. Would like cooling added to gym. Chiller has capacity to serve gym
 - d. Auditorium – built in 2009 – will need further discussion with musical director
 - i. Lighting and equipment may be an issue and need to be upgraded
 - ii. General lighting above seating is existing industrial type fixture with LED lamps.
 - iii. Pendant can light fixtures above seating and stage are original Halogen.
 - iv. Sound equipment is old.
 - e. Boilers are from 2008. Would like new. Existing are Thermal Solutions. Heat exchanger has been replaced for one boiler. Boilers did not have water softener until 2009 or 2010
 - f. Not all rooms have A/C. Options to add?
 - g. Electrical distribution system is in good condition. Some panel updates have been made and feeder wire has been replaced.
2. Technology
 - a. New Gym: PA system inefficient – muffled, too low
 - b. New Gym: Poor WiFi coverage
 - o Auditorium: Sound equipment is old.
 - c. Existing clocks are analog, and they have periodic issues with them, such as wrong time. IT director asked if clocks are even required. If not, can they be removed?
3. Site Work
 - a. Parking lots/drives – mill & resurface or replace. Re-purpose millings for gravel/dirt lots
 - b. Additional lighting needed at north school entry/bus drop-off lot– hard to see; identification signage needed?
 - c. Replacement of electronic sign. Software operating the sign is no longer supported
4. Safety & Security
 - a. Current passage to 2nd floor weight room needs secure entry – would need to be infilled and double door added; currently there is drywall behind the tile
 - b. Front offices – remodel – new finishes, new casework (?)
 - c. New safe/Secure main entrance.
 - d. There is not a need for a substantial increase in Access Control locations, but the existing locations need updates or replacement. Existing system is “S2” ?

		Lakewood Schools Technology Estimate																									
		Commtech Design																									
		A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X		
		High School											Total														
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Discovery

Today's Elementary School Buildings

To understand what 'state-of-the-art' truly means in School planning and design, the PSC and principals of the buildings were presented with images and ideas from districts throughout Michigan depicting modern learning environments. The themes of these spaces include:

- Existing Underutilized Spaces or Spaces that Need Renovation
- Safe & Secure Entry
- Welcome Center / Offices
- Opportunities for Creating Spaces for:
 - » Collaboration
 - » Team-work
 - » Hands-on
 - » Multi-purpose
 - » Activity-room

The complete slideshow shared with the PSC is included in Appendix B.



Discovery District's Financial Opportunity

During the process, the PSC learned about financing options for capital improvement projects and also the specific millage level for Lakewood Public Schools.

PFM Asset Management LLC, the District's financial consultant, provided a summary of the estimated cost and resulting projected millage for a \$64 million proposed bond issue.

**LAKEWOOD PUBLIC SCHOOLS
COUNTIES OF IONIA, BARRY, EATON, AND KENT
SCHOOL BUILDING AND SITE BONDS
(GENERAL OBLIGATION - UNLIMITED TAX)**

SUMMARY OF PROPOSED BONDING ALTERNATIVES

Series	Bond Amount	Bond Term	Estimated Bond Interest Cost	Estimated Interest Rate	Ballot Info		Maximum Total Mills All Debt	Increase (Decrease) in Debt Levy
					First Year Millage*	Average Millage		
Prequal 1								
Series 2022	\$32,000,000	29 yrs., 5.5 mo.	\$22,882,146	3.75%				
Series 2025	<u>32,000,000</u>	26 yrs., 6 mo.	<u>22,826,625</u>	3.75%				
Total	\$64,000,000		\$45,708,771		3.58	4.37	7.00	0.00

ASSUMPTIONS:

- a debt levy of 7 mills for 2021.
- August 2022 vote, Bonds Dated November 2022.
- an annual change in Taxable Value of 3% as well as estimated personal property tax reimbursements on existing debt only.


NOTATION:

- The interest rates used on the enclosed tables represent conservative rates. If the bonds were sold in the current market, the interest rate would be less than shown above. However, due to the fact the bond sale is at least six months away, we recommend using a conservative interest rate when computing the millage impact. Otherwise, if the interest rates rise, the District could be forced to levy a millage higher than the millage given in the pre-election information.

2.21.22
KB

December 21, 2021

Lakewood Public Schools - 2022 Bond Program
Potential Scope of Work



Legend:
Safety & Security: RED
Competitive Advantage: GREEN
Good Stewardship of the Community's Money: YELLOW

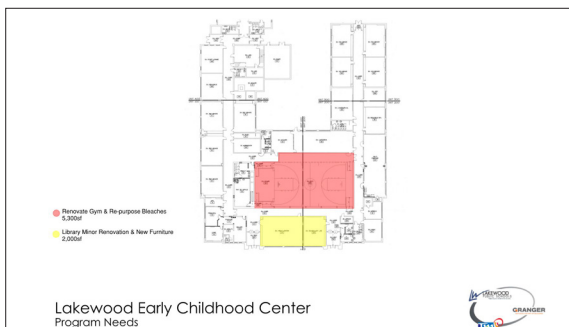
Priority	Item	Building/Description
		High School
		a. Floor steel structural supports of columns sufficient
		b. Original light fixtures are not up to code and need replacement parts because there are no longer made. These structural lights are suspended in black steel structure surface boxes and will need to be replaced or well lighting and parking
		c. Auditorium - built in 2006 - will need further discussion with musical director
		1. Lighting and equipment may be an issue and need to be upgraded
		2. General lighting above seating - existing (industrial style fixtures with LED lamps)
		3. Traditional low light fixtures above seating and stage are original fixtures
		4. Sound equipment in use
		a. Fixtures are from 2006 - should be new. Existing air Thermal Solutions Heat exchanger has been replaced for steel boiler. Boiler did not have water softener until 2008 or 2010
		b. All of rooms have A/C. Options to upgrade
		c. Electrical distribution system in good condition. Some panel updates have been made and transfer wire has been replaced
		2. Technology
		a. New Open PA system installed - installed, too late
		b. New Open PA system coverage
		3. Auditorium Sound equipment is old
		a. Existing track use existing and they have periodic issues with them, such as wiring lines. If director asked if tracks are even required. If not, can they be removed
		b. Site Work
		1. Track to be replaced - will be replaced or replace the parking surface for gravel/stone
		2. Additional lighting installed at north end of track (drop off area) - track to be replaced/repaved
		3. Complete replacement of drainage pipe - currently operating the pipe is clogged
		4. Safety & Security
		a. Current cameras in first floor weight room needs camera entry - second need to be added and double door added; currently there is a display behind the bar
		b. Front office - camera - new fixtures, new camera, TV
		c. New safe/fire safe installed
		d. There is a need for a substantial increase in Access Control locations, but the existing locations need updates or replacement. Existing systems "12"
		e. Existing fire alarm system is a horn system, and the HS is the only system that did not go to the department. FACP is original
		f. Would like local alarm on selected doors when left open. They have issues with people propping open doors that should remain locked
		5. Athletics
		a. Considering replacement of existing grass football field converted to football/soccer turf field
		b. Track needs to be replaced - currently parking, torn patches/repaved, track surface worn to asphalt surface. Parking around track and field complex are original
		c. Artificial approach at football field spectator entrance is in bad condition
		d. New seating at baseball field. Baseball/softball fields have pending drainage issues
		e. Would like restrooms at baseball/softball fields
		f. Would like sidewalks at baseball/softball fields
		g. There is no shade lighting along E Brown St. entrance which serves athletic fields entrance
		h. New fence provided - currently steel structure fence. Would like require the fence to be replaced
		i. Tennis courts need to be resurfaced - parking, solar fiber available in one of the courts, on site lighting needed
		6. Change to current usage
		a. Soccer field - current in condition, current field may be potential site for future bus garage, drainage needs to be addressed if it is believed that rapid drain from below soccer field
		b. Potential underground athletic storage space, floor, and one located northwest of the high school, and east of the soccer field
		c. New concession at stadium - existing space in good shape, only board needs to be replaced. Shared is intended in video display
		d. Original Open Bleachers underneath main 2002 - when sign of water, bleachers, should be water bleachers
		7. Other Issues
		a. Would like cafeteria to be more user friendly - add benches along window walk, high top tables
		b. Existing function in Recreational building (the computer center) would be a good space, water tables, seating area
		c. Restrooms - consider new fixtures, partitions. This is a need throughout the district
		d. Elevator built in 2002 - no current needs identified
		e. Consider replacing fire alarm immediately
		f. ADA and ADA's use from 2008
		g. Transportation control have been updated by Grand Valley Administrators
		h. There are some pending issues throughout the
		i. All projects and conditions are being updated by the district
		j. Regular maintenance
		k. Regular maintenance
		l. Multiple center in good shape - consider new furniture, cafeteria open space
		m. Restroom/entrance

Exploration

Potential Projects

Based on the Facility and Program Assessment findings, Granger presented the Potential Scope of Work District Wide, including:

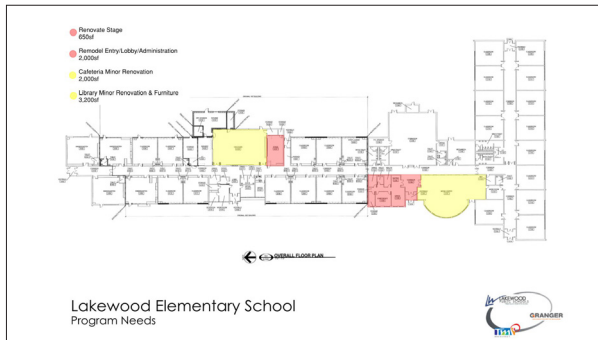
- Replace roofs at all schools
- Improve parking lots and drives at all schools
- All buildings have bus/drop-off separation
- Construction of new bus garage
- Stadium artificial turf
- Stadium bleachers, fencing, sound system and new scoreboard
- Tennis court resurfacing and underdrainage
- Track replacement (end of useful life)
- Soccer field drainage issues
- There is interest in bringing the soccer field to the stadium
- Bus garage lift system for bus maintenance
- Buses
- Technology (at the back end of the bond)
- Concession/Restrooms at softball and baseball fields
- FFE (TBD)
- Gym sound system
- New sound and lighting for Auditorium
- Identify options for hands-on tech experience: automotive, carpentry/wood shop, outdoor recreation
- Permanent outdoor band instruction tower. Remove scaffolding tower



Exploration

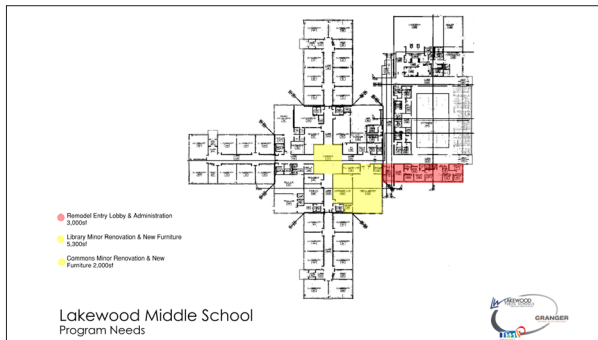
Potential Projects (Cont.)

After meeting with the school principals and looking at Existing Underutilized Spaces or Spaces that Need Renovation to create opportunities for Collaboration, Team-work, Hands-on, Multi-purpose, or Activity-rooms, a series of potential projects were presented:



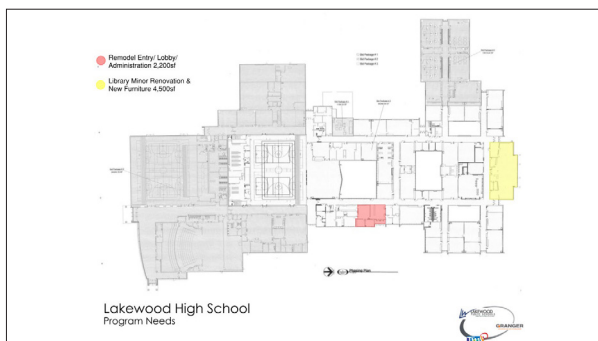
Elementary School

- Remodel Entry / Lobby / Administration
- Library Minor Renovation
- Cafeteria Minor Renovation
- Stage Renovation
- Furniture



Middle School

- Remodel Entry / Lobby / Administration
- Library Minor Renovation
- Commons Minor Renovation
- Furniture



High School

- Remodel Entry / Lobby / Administration
- Library Minor Renovation
- Furniture

Other potential projects were proposed as follows:

- Replacement of Existing Early Childhood Center
- Replacement of Existing Garage and Maintenance Building
- A New Fieldhouse
- Athletic Upgrades

The background features a white upper section and a blue lower section. The blue section is composed of several overlapping, wavy, curved bands of varying shades of blue, creating a sense of depth and movement. The word 'RECOMMENDATION' is written in white, bold, italicized capital letters in the bottom left corner.

RECOMMENDATION



Recommendation

The Project Steering Committee engaged in a two and a half month process of discovery, exploration, research, and collaboration to analyze the current state of our district and facilities, determine what the future state of our facilities should be and, as good stewards of community resources, determine the most cost-effective, highest return-on-investment option for upgrading district facilities to meet this vision. It is with much confidence, enthusiasm, and optimism that the PSC presents our Recommendation to the Board of Education.

The main focus of the Bond Program initiative is described below, followed by a breakdown of costs and millage impact.

The Bond Steering Committee's recommendation is to bring to voters a \$64 million bond proposal on the August 2, 2022 ballot which represents a 0 increase to the current bond millage rate of 7 mills.

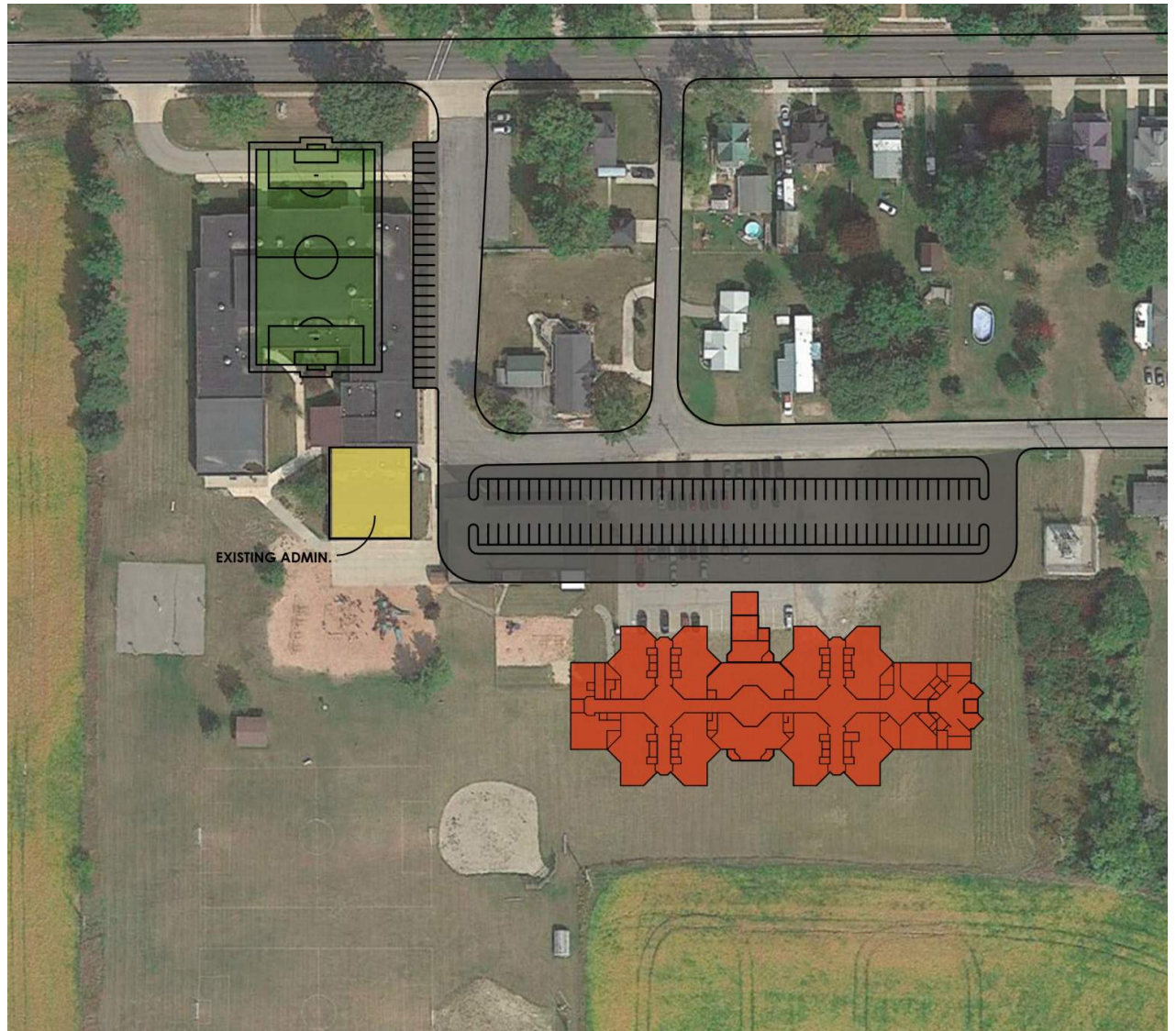
Features of the program are described on the following page.

Early Childhood Center / Administration

- Demolish existing Early Childhood Center, keeping only the Administration Offices
- Build New Early Childhood Center
- New Parking Lot and Driveways
- New Playgrounds and Fields

Recommendation

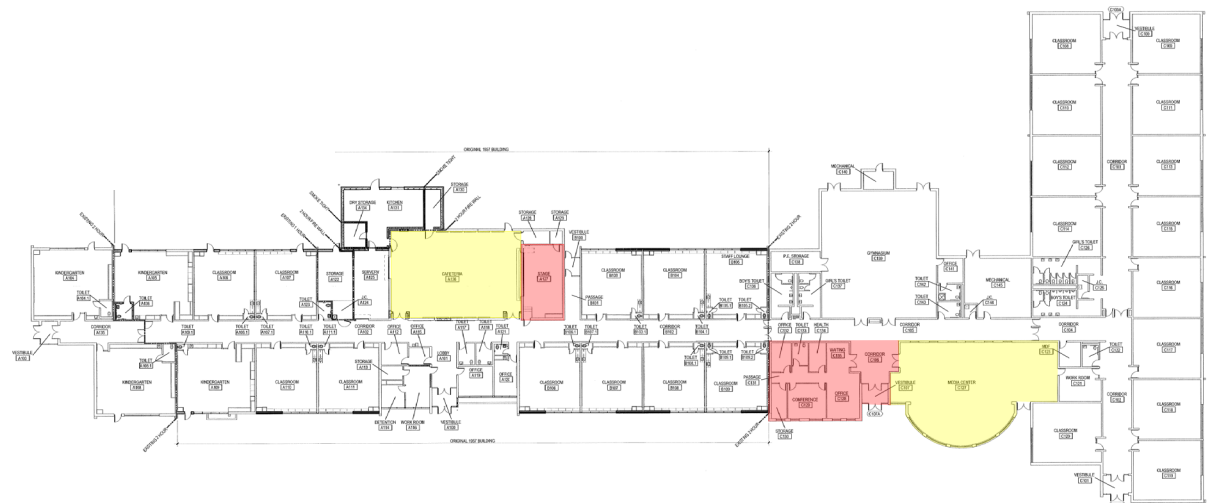
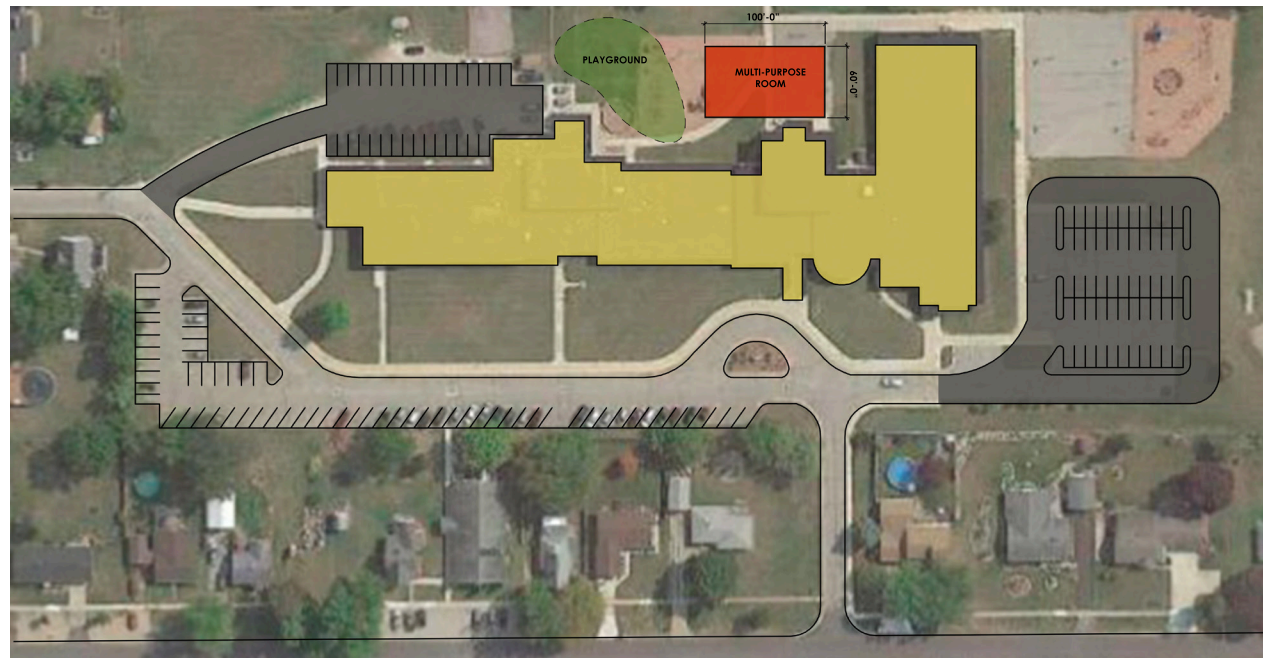
FEATURES OF THE 2022 BOND PROGRAM RECOMMENDATION



Possible concept for new Early Childhood Center. Further input will be sought from Community during March and April to determine actual location.

Elementary School

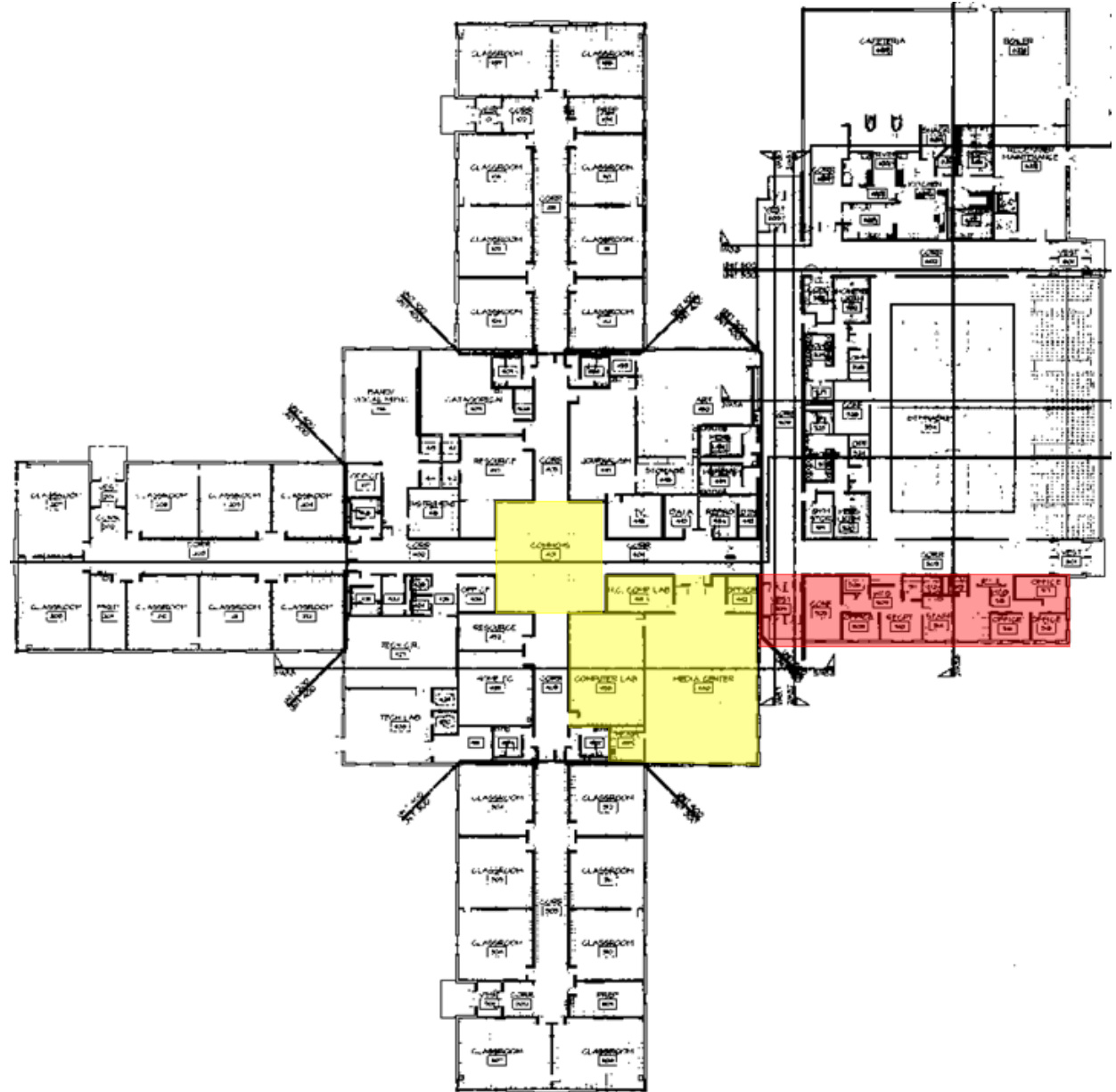
- New Safe and Secure Entry
- New Welcome Center
- Renovate Cafeteria, including Stage
- Library Upgrades and Furniture
- Build Multi-purpose Addition
- Relocate Playground
- Pave Staff Parking
- Reconfigure/Expand Auto Loop to alleviate Traffic Back-up on Washington Ave.



← OVERALL FLOOR PLAN

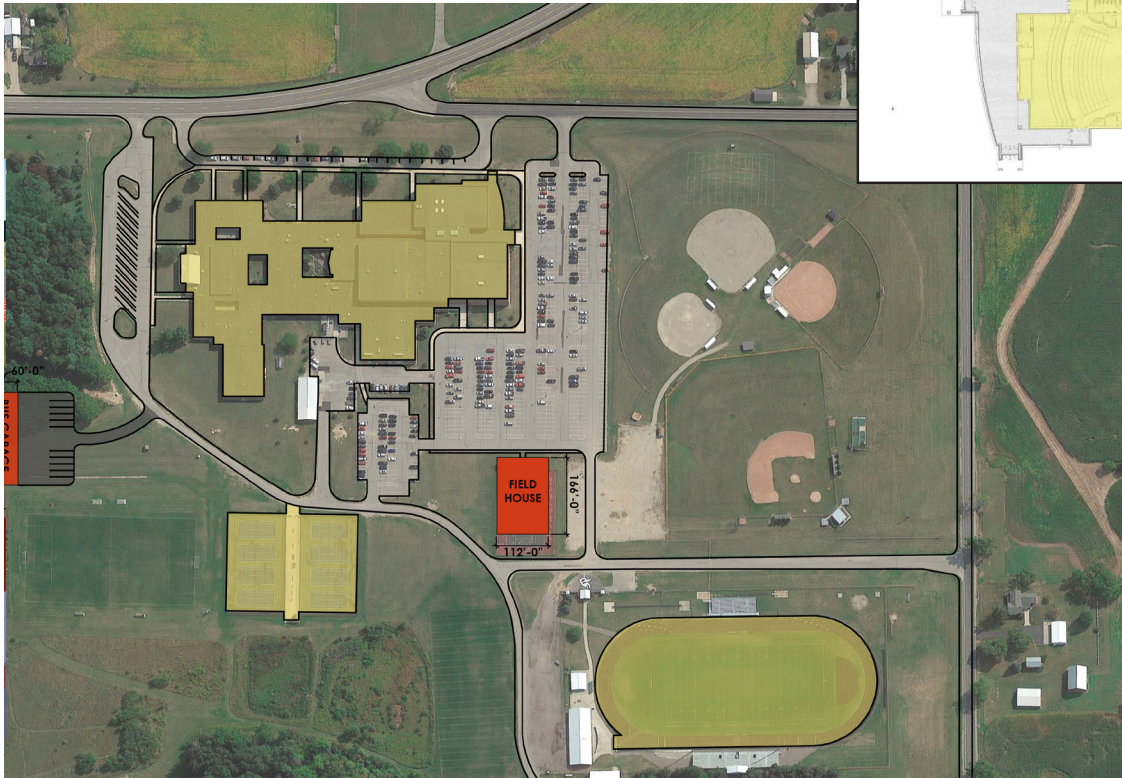
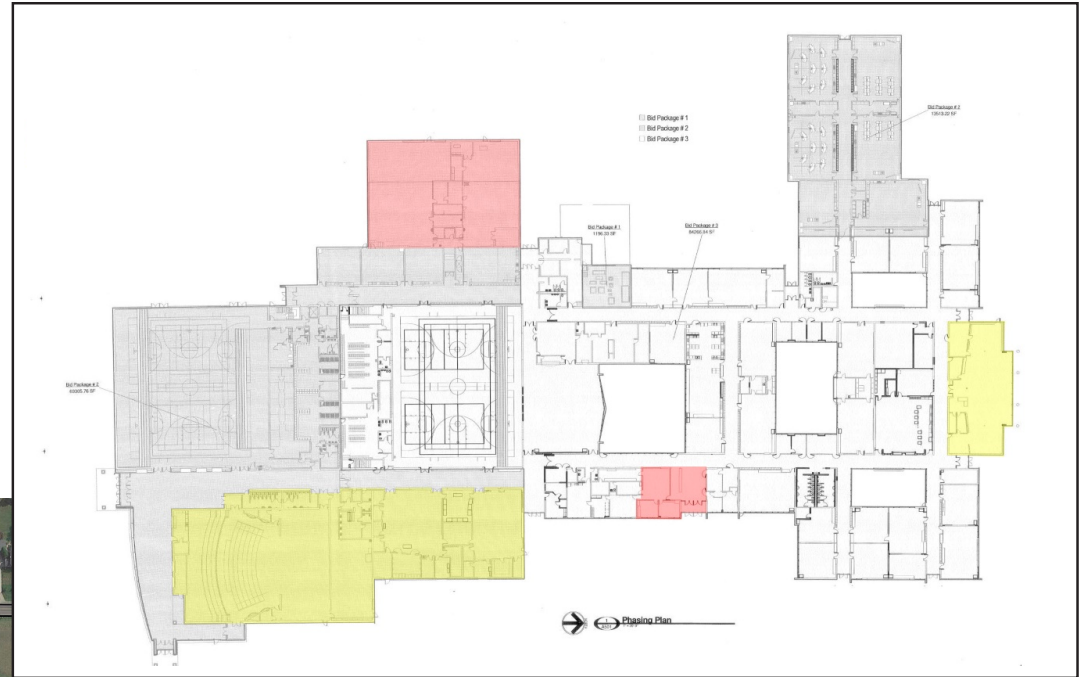
Middle School

- New Safe and Secure Entry
- Remodel Administration
- Library Upgrades and Furniture
- Remodel Common Space



High School

- New Safe and Secure Entry
- New Welcome Center
- Library Upgrades and Furniture
- Upgrades to Music Rooms and Auditorium
- Upgrades and Repurposing of Wood and Auto Shop



High School Site

- Track Replacement
- Synthetic Turf Football/Soccer Field
- New Fieldhouse
- New Bus Garage
- Tennis Court Upgrades

New Fieldhouse

- Multi-Sport Practice Facility
- Community Fitness Center
- Youth Programs
- Walking Track
- Bathrooms
- Lockers
- Office
- Storage



“The principle goal of education is to create men and women who are capable of doing new things, not simply repeating what other generations have done.”

- JEAN PIAGET

FINANCIAL CONSIDERATIONS



Estimate of Costs

Over the past two and a half months, the PSC evaluated and discussed a great deal of information. After thoroughly understanding the state of our facilities and bond financials, we felt that the opportunity to take care of so many important infrastructure and program needs without any increase to the millage rate provided us with the opportune time to invest in our students and future. Doing this would put our District on track for continued success in the future.

Listening to our community built confidence in our direction to pursue a \$64M Bond Program. We feel the vision and direction is one that community members will embrace because it is responsive to the needs of our students, staff, and community and is fiscally responsible to our taxpayers. The following outlines the estimated costs of the bond program recommendation.



Buildings/Projects	Budget
• High School - Facility and Program Needs	\$11,830,200
• Middle School - Facility and Program Needs	\$10,376,809
• Elementary School - Facility and Program Needs	\$4,747,264
• New Early Childhood Center	\$16,600,000
• Administration Building New Entrance	\$1,000,000
• New Bus Garage	\$4,800,000
• Demolition of Existing ECC	\$500,000
• Elementary School Multi-purpose Addition	\$2,250,000
• Demolition of Storage Building adjacent to Bus Garage	\$52,164
• Fine / Performing / Graphic Arts Remodeling	\$1,000,000
• New Field House at HS campus	\$7,436,800
• Technology	\$500,000
• Buses	\$1,350,000
• Furniture, Fixtures, and Equipment (FFE)	\$735,663
• Elementary School New Drives / Parking	\$821,100
TOTAL	\$64,000,000



Taxpayer Impact - Zero Increase to Current Millage Rate

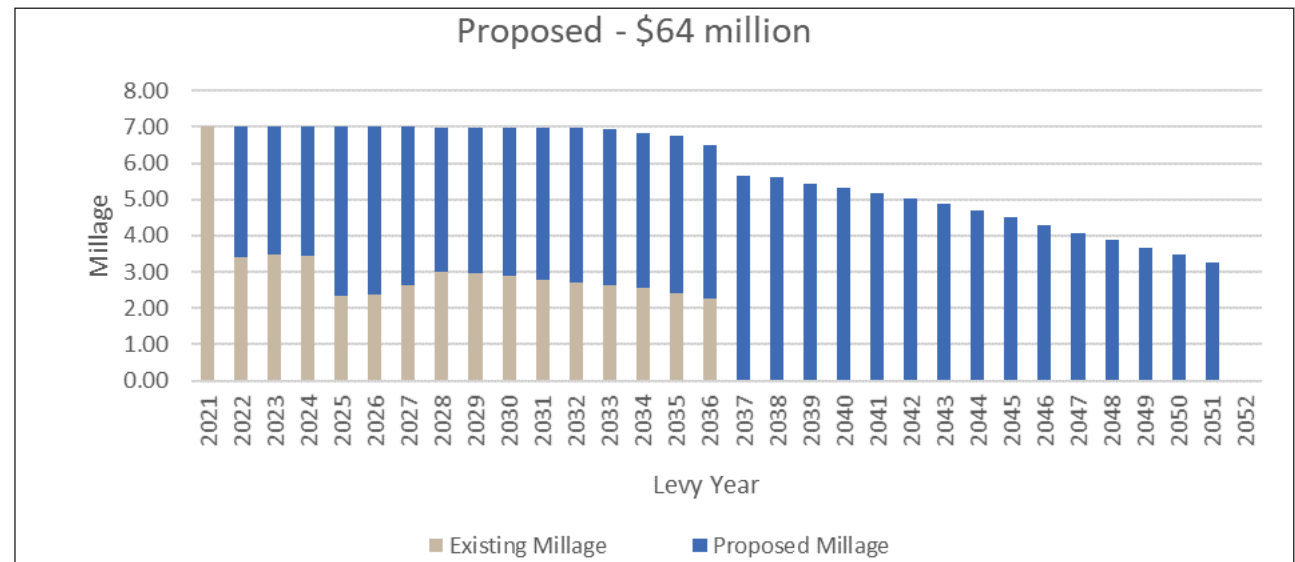
Estimated Bonding Capacity Chart

Series	Bond Amount	Bond Term	Estimated Bond Interest Cost	Estimated Interest Rate	Ballot Info		Maximum Total Mills All Debt	Increase (Decrease) in Debt Levy
					First Year Millage*	Average Millage		
Prequal 1								
Series 2022	\$32,000,000	29 yrs., 5.5 mo.	\$22,882,146	3.75%				
Series 2025	\$32,000,000	26 yrs., 6 mo.	\$22,826,625	3.75%				
Total	\$64,000,000		\$45,708,771		3.58	4.37	7.00	0.00

ASSUMPTIONS:

- a debt levy of 7 mills for 2021.
- August 2022 vote, Bonds Dated November 2022.
- an annual change in Taxable Value of 3% as well as estimated personal property tax reimbursements on existing debt only.

Millage Projection Chart for a No Mill Increase





THANK YOU



February 28, 2022

APPENDICES

PRESENTED BY:
Project Steering Committee



APPENDIX A
FACILITIES ASSESSMENT



Lakewood Public Schools 2022 Bond Program

Potential Scope of Work

High School

1. MEP
 - a. Floor drain cleanout outside of cafeteria inefficient
 - b. Original Gym: Lighting can only be controlled from electrical panel because there are no light switches. Panel and conduits are concealed in block wall so either surface boxes and conduit will be needed or wall cutting and patching.
 - c. Would like cooling added to gym. Chiller has capacity to serve gym
 - d. Auditorium – built in 2009 – will need further discussion with musical director
 - i. Lighting and equipment may be an issue and need to be upgraded
 - ii. General lighting above seating is existing industrial type fixture with LED lamps.
 - iii. Pendant can light fixtures above seating and stage are original Halogen.
 - iv. Sound equipment is old.
 - e. Boilers are from 2008. Would like new. Existing are Thermal Solutions. Heat exchanger has been replaced for one boiler. Boilers did not have water softener until 2009 or 2010
 - f. Not all rooms have A/C. Options to add?
 - g. Electrical distribution system is in good condition. Some panel updates have been made and feeder wire has been replaced.
2. Technology
 - a. New Gym: PA system inefficient – muffled, too low
 - b. New Gym: Poor WiFi coverage
 - o Auditorium: Sound equipment is old.
 - c. Existing clocks are analog, and they have periodic issues with them, such as wrong time. IT director asked if clocks are even required. If not, can they be removed?
3. Site Work
 - a. Parking lots/drives – mill & resurface or replace. Re-purpose millings for gravel/dirt lots
 - b. Additional lighting needed at north school entry/bus drop-off lot– hard to see; identification signage needed?
 - c. Replacement of electronic sign. Software operating the sign is no longer supported
4. Safety & Security
 - a. Current passage to 2nd floor weight room needs secure entry – would need to be infilled and double door added; currently there is drywall behind the tile
 - b. Front offices – remodel – new finishes, new casework (?)
 - c. New safe/Secure main entrance.
 - d. There is not a need for a substantial increase in Access Control locations, but the existing locations need updates or replacement. Existing system is “S2” ?



- e. Existing Fire alarm system is a horn system, and the HS is the only system that dials out to fire department. FACP is original.
 - f. Would like local alarms on selected doors when left open. They have issues with people propping open doors that should remain locked.
5. Athletics
 - a. Considering replacement of existing grass football field converted to football/soccer turf field.
 - b. Track needs to be replaced – currently ponding, been patched/repared, track surface worn to asphalt subbase. Fencing around track and field complex are original.
 - c. Asphalt approach at football field spectator entrance is in bad condition.
 - d. New fencing at baseball fields. Baseball/softball infields have ponding/drainage issues.
 - e. Would like restrooms at baseball/softball fields.
 - f. Would like windscreens at baseball/softball fields.
 - g. There is no drive lighting along E Brown Rd. entrance which service athletic fields entrance.
 - h. New home grandstand – currently steel structure base. Would this require the press box to be replaced?
 - i. Tennis courts need to be resurfaced – ponding; note fiber manhole in one of the courts; no site lighting needed.
 - j. Drainage to wildlife refuge
 - k. Soccer field – relocate to stadium; current field may be potential site for future bus garage; drainage needs to be addressed It is believed that septic drain runs below soccer field.
 - l. Several underground utilities (Sewer, power, fiber, gas) are located northwest of the high school, and east of the soccer field.
 - m. New scoreboard at stadium – existing posts in good shape, only board needs to be replaced. District is interested in video display.
 - n. Original gym: Bleachers are existing from 1964 – shows sign of wear, breaks/cracks. Would like new bleachers.
 6. General Topics
 - a. Would like cafeteria to be more user friendly – add booths along window wall, high top tables
 - b. Various locations in Acoustical Ceiling Tile in corridors where water/leaks were present; water stains, sagging tiles
 - c. Bathrooms – remodel – new finishes, partitions (this is a need throughout the district)
 - d. Elevator built in 2008 – no current needs identified
 - e. Owner replaces CHW pumps periodically
 - f. AHU’s and RTU’s are from 2008.
 - g. Temperature controls have been updated by Grand Valley Automation.



- h. There are various roofing issues throughout HS.
- i. All projectors and controllers are being updated by the district.
- j. Projector boards are interactive.
- k. Replace carpet throughout
- l. Media center in good shape – consider new furniture, collaboration space.
- m. Roof Replacement

Middle School

1. MEP
 - a. Existing lighting controls inefficient in some corridors - Upgrade to sensor control to match other areas of the building. Classrooms appear to be occupancy controlled. Principle would prefer that no manual control needed when entering room. Possibly change to occupancy controls? However, lighting and controls have recently been updated.
 - b. Would like exterior lighting controls to be updated. Existing are old time clocks.
 - c. New chiller & tower needed. Existing is York.
 - d. One existing boiler has been replaced and is Fulton. One existing boiler needs to be replaced.
 - e. Half of the school building is pneumatic controls. Would like pneumatic updated to new BMS.
 - f. Some 2-way valves on RTU's have been replaced.
 - g. Heat exchanger plate leaks. New CHW pumps and VFD's needed.
 - h. There are 4 older VFD's for RTU's. Installed 1998.
 - i. One RTU has updated controls
2. Technology
 - a. Gym sound system doesn't operate well.
 - b. Network cabling is 1998-1999 – only school in district that has not received cabling upgrade
 - c. There is only (1) network drop per classroom. Would like additional network drops and updated network cabling throughout.
3. Site Work
 - a. New playground for 5th graders requested
 - b. Exterior – new benches, picnic tables, possible outdoor learning space with covering
 - c. Exterior:
 - i. Little league infield needs to be redone
 - ii. Parking lot has recently been spot patched and resealed– mill & resurface or complete repave
 - iii. Current bus loop at front of building is inefficient and has ADA issue – lane needs to be widened and/or have separate lane added



4. Safety & Security
 - a. Main entry – needs secure entrance. Possibly existing conference room to be converted into secure entrance/welcome center?
 - b. Inefficient office locations front office to other offices – combine into one space if possible; upgrade finishes
5. Athletics
 - a. Gym masonry is cracked horizontally at the adjacent roof line – cause unknown at this time; been present for last 10 yrs or so but does not seem to be becoming larger/ more of an issue
 - b. Gym bleachers are in good condition but have some mechanical issues. Possible motors or operable mechanisms issues.
6. General Topics
 - a. Built in 1998
 - b. Various locations in ACT ceiling where water/leaks were present at wall/ceiling perimeters, water stains down walls and on ACT
 - c. Existing fiberglass/skylight roofing in main entry & corridor leaks a lot and has been patched & repaired many times – this roof is original to the building and has visible damage from sun exposure
 - d. Roof work is need on flat roofs; no needs currently identified for vaulted ceiling/roof
 - e. Bathrooms – upgrade finishes, new partitions
 - f. Carpet to be replaced throughout building.
 - g. Exterior gutters in visibly poor condition – needs to be replaced
 - h. Major big-ticket items identified in site visit to be addressed are the roof and parking lots

Elementary School

1. MEP
 - a. Storm cleanout in interior wall backs up and overflows into hallway – appears to not be sized properly
 - b. Power distribution updates in 2008.
 - c. Chiller is from 1998. Chiller and tower have issues.
 - d. JCI is called for service frequently.
 - e. Boilers are from 2008.
 - f. JCI is called for service frequently.
 - g. AHU in mechanical room is York.
2. Technology
 - a. Needs new voice fire alarm system. Existing system is horn and does not have a dialer.
3. Site Work



- a. Parking lot redone in 2019 – no current needs identified except existing crack in sidewalk where concrete meets the paving at drop off
 - b. Current issues with parent pick up/drop off – cars loop around small staff parking lot and backup on Washington; School owns a large part of unused property that includes a baseball field that could potentially be used to create extra drive/lanes to lessen this issue – will need to be further investigated by TMP. This route has access to M-50.
 - c. Playground equipment upgrades needed
 - d. Building entrance at SW corner of building has concrete slope issues. Heavy rain floods into building. Possibly add trench drain in exterior concrete entrance.
4. Safety & Security
- a. Needs safe/secure main entrance. Main office reconfiguration
 - b. In need of exterior signage/building identification
 - c. School in need of more cameras/surveillance interior and exterior
 - d. Issues with existing front entrance and ADA requirements
5. General Topics
- a. Noticed fiberglass windows in gym similar to the roof at MS – does this need to be addressed?
 - b. 1998 was the last time the school was updated on interior
 - c. Media Center seemed to be warm. Doors on opposite sides were propped open which created a slight breeze through the room. Is this space normally too warm with poor ventilation?
 - d. Roof redone in 2008 – Issues with roof drainage/overflow drains.
 - e. Currently there are no empty classrooms that can be repurposed
 - f. Desire to have a Maker space/STEM for collaboration; arts & music spaces
 - g. Replace corridor and classroom carpet
 - h. Stage in cafeteria has operable partition that doesn't always slide correctly.

Early Childhood Center

1. MEP
- a. Drainage issue on roof over central office. All other roof sections need to be inspected
 - b. Classrooms have unit ventilators. Some condensers have issues.
 - c. Existing MDP is 600A. Some power distribution upgrades have been made including new feeders.
 - d. Existing MDP is 600A. Some power distribution upgrades have been made including new feeders.
 - e. Boilers are from 2008
 - f. Water heater from 2008
 - g. Equipment does not have VFD's



- h. Gym has 2 old AHU's mounted high in steel. They are noisy and belt-driven. They are only used 2 or 3 months per year.
2. Technology
- a. Access Control system needs updates.
3. Site Work
- a. Playground equipment is not age appropriate and in need of replacement/re-purposing
 - b. Parking lot in need of mill & resurface or complete repaving
4. General Topics
- a. Bathroom – possible new fixtures, finishes, partitions
 - b. Majority of windows are difficult to open/ function; no screens
 - c. Ceiling in seating area of gym is damaged to deck in one location
 - d. Existing acoustical ceiling appears to be in good condition – no needs identified
 - e. School had upgrades from 2008 (?) bond
 - f. Sloped floor into gym space is steep and may benefit from wall handrail

Bus Garage

1. General Topics
- a. Existing structure original from 1930 and in very poor condition on exterior and interior
 - b. Majority of property being utilized is not owned by school; some adjacent school property currently in the works to be donated by the school
 - c. Current location undesirable – would like to be closer to the high school and add office in building, more than one bathroom, and a lounge
 - d. Potential relocation of transportation building to High School soccer field; current location is central to all schools – relocating to HS would only be ~4 miles further
 - e. Existing or new building needs to be taller to accommodate lifts/hoists
 - f. In need of 2-3 lifts/hoists and 2-3 bays, high-power power washer
 - g. Currently buses only half covered under structure – possibly fully covered to prevent water collection in bus vents
 - h. Should a fueling station be added; will need to investigate current fueling costs to fuel off-site at local stations
 - i. Gravel lot is in poor condition – muddy, lots of ponding
 - j. Existing building needs new concrete flooring and sloping
 - k. Existing bathroom in poor condition – sink falls off wall, lots of leaking
 - l. Existing building leaks at walls, windows, doors, roof and retains water/moisture – ponding/ floor flooding, wall damage
 - m. Existing location in need of security & fencing
 - n. Existing storage structure is currently being used but could be cleaned out and demoed to add more space; currently the only storage building available for the district
 - o. Existing building is only building not connected to the district's network



- p. Has ceiling hung heating units; no cooling
- q. Transportation Director is committed to a diesel fleet so they must have engine block heater connections.

Maintenance Building

- 1. General Topics
 - a. Stone ballast roof – has issues.
 - b. Parking lot is in poor condition and needs to be expanded.
 - c. Replace select doors and hardware

Alternative Buildings

- 1. General Topics
 - a. Stadium (Storage Building, Concession Building, Fieldhouse/Locker Rooms)
 - b. Storage Building adjacent to Bus Garage



487 Portage Street
 Kalamazoo, MI 49007
 Ph: (269) 381-6170
 Fax: (269) 381-6176

Memorandum

To: Eduardo Blanc
From: Adam Poznanski
Date: 11/5/2021
Re: 21100286 Lakewood Public Schools

Byce visited Lakewood schools and noted the follow observations of the Mechanical systems.

Woodland Elementary

- Classrooms:
 - Heated and cooled with vertical unit ventilators (DX and hot water).
 - Units were installed in 2008 and are in good condition.
 - Median life expectancy for this machine is 40 years.
 - Exception: DX cooling system life expectancy is 20 years
- Gym:
 - Heated and ventilated with AHUs (hot water)
 - Units are older but in working conditions.
 - Facilities noted that the units are very loud, so they only run them when absolutely necessary.
- Office
 - Packaged roof top units (DX and gas fired)
 - Split system AHU (DX and hot water)
 - Units were installed in 2008 and are in good condition.
 - Median life expectancy for this machine is 20 years.
- Heating System
 - Two copper fin hot water boilers (1500 MBH each)
 - Units were installed in 2008 and are in good condition.
 - Median life expectancy for this machine is 25 years.
- Domestic Hot Water
 - One copper fin water heater (150 MBH)
 - One storage tank
 - Units were installed in 2008 and are in good condition.
 - Median life expectancy for this machine is 15 years.
- No plumbing issues discussed

November 17, 2021

- Units were installed in 2008 and are in good condition.
- Median life expectancy for this machine is 40 years.
 - Exception: DX cooling system life expectancy is 20 years
- Gym:
 - Heated and ventilated with an AHU (hot water)
 - Unit were installed in 1998 and is in working condition.
 - *The heating coil has been damaged due to the need for multiple cleanings of the years.*
 - Median life expectancy for this machine is 40 years.
- Heating System
 - Two copper fin hot water boilers (1500 MBH each)
 - Units were installed in 2008 and are in good condition.
 - Median life expectancy for this machine is 25 years.
- Domestic Hot Water
 - One copper fin water heater (199 MBH)
 - One storage tank
 - Units were installed in 1998 and are in working condition.
 - Median life expectancy for this machine is 15 years.
- Plumbing
 - Storm drains do not drain the roof fast enough so there is frequent flow through the overflow drains.
 - Overflow drains are high wall mounted and are staining the brick exterior. Also, there are no splash blocks, so the ground is eroded at the points of discharge.
- Site
 - The sidewalk slopes to the southwest entry focusing rainwater to the building.
 - *May need to rework sidewalk or provide a trench drain.*

4



487 Portage Street
 Kalamazoo, MI 49007
 Ph: (269) 381-6170
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Memorandum

To: Eduardo Blanc
From: Keith Martinez
Date: 11/9/2021
Re: 21100286 Lakewood Public Schools

Byce visited Lakewood schools and noted the follow observations of the Electrical systems.

Woodland Elementary

- Lighting System
 - Most light fixtures are 2'x4' direct/indirect troffers recessed in ACT ceiling systems. Recessed downlights are installed near entryways. Likely installed in 1998 and is in ok condition.
 - All interior light fixtures are fluorescent type and have been retrofitted with LED lamps in 2008.
 - Interior light levels are not very high; however no complaints were noted.
- Lighting Controls
 - Classrooms are equipped with ceiling mounted motion sensor vacancy controls. These were installed in 2008.
- Emergency Lighting
 - Wall and ceiling mounted emergency fixtures are installed throughout the building. They are LED type, from 2020, and in good condition.
 - Exit signs are also newer and are in working order.
 - Coverage of both exit signs and emergency lighting seems to be adequate.
- Exterior Lighting
 - Light poles at the front of the school have been retrofitted with LED fixtures, circa 2008. Fixtures have built in motion sensors and dim light level to 30% when motion is not detected.
 - Exterior lighting is controlled by a small relay panel.
 - There is no exterior lighting at the bus drop off area. Wall packs and possibly pole mounted lighting is desired.
 - Lighting for the staff parking lot is inadequate. If parking lot is renovated, lighting for the new lot is desired.
 - In-grade flag pole lights have not been upgraded to LED.
- Power Service

21100286

1

November 17, 2021

- A pad-mounted transformer and outdoor disconnect serve the building with a 1,000A electrical service at 208Y/120V. The service and electrical gear was installed in 1998 and is in ok condition.
 - The main switchboard is circuit breaker type and does not appear to be overloaded. However, there is not much room for more feeder breakers.
 - Power Distribution
 - Branch circuit power panels are installed throughout the building. Most were installed in 1998, but older panels do remain in use.
 - Most panels of the 1998 vintage have some spare breaker capacity.
 - All branch circuit wiring was replaced in 1998. Grounding conductors could not be verified.
 - Classrooms seem to have good outlet coverage. There is wiremold and surface mounted conduit in many places.
 - Fire Alarm:
 - System is an Edwards ETS-2, installed and maintained by Riverside in 2008.
 - Horn/strobe annunciation, manual pull station activation, with automatic smoke detection in corridors.
 - System does not dial out to fire department or notify anyone outside the building. Riverside has been contacted and existing system can dial out with the addition of extra parts.
 - Technology
 - Ceiling mounted IP cameras have been installed recently (2020) in corridors. Most are multi-lens type.
 - New projectors and AV equipment are currently being replaced in classrooms and gymnasium.
 - Main office and side entrance have modern intercom and access control. They were upgraded in 2018.
- Middle School
- Lighting System
 - Classrooms feature 2'x4' direct/indirect troffers in recessed ACT ceiling systems.
 - Corridors have direct/indirect linear pendant fixtures.
 - Fixtures were installed in 1998 and retrofitted with LED lamps in 2008.
 - Some fixture lenses are damaged and are generally not in great condition.
 - Lighting Controls
 - Relay panel for lighting in the gymnasium, original to 1998.
 - Classrooms are equipped with ceiling mounted motion sensor vacancy controls. These were installed in 2008.
 - Hallways and restrooms are controlled by keyed switches only. No automatic controls are present. Occupancy sensor control and/or lighting control system is desired.
 - Emergency Lighting
 - Wall and ceiling mounted emergency fixtures are installed throughout the building. They are LED type, from 2020, and in good condition.
 - Exit signs are also newer and are in working order.
 - Coverage of both exit signs and emergency lighting seems to be adequate.
 - Exterior Lighting

2

November 17, 2021

- Light poles light all drives and parking areas. They are HID type original to 1998.
 - Lights are controlled by timeclocks and contactors in the building.
 - Power Service
 - A pad-mounted transformer serves the building with a 2,000A electrical service at 480Y/277V. The service and electrical gear was installed in 1998 and is in ok condition.
 - The main switchboard is circuit breaker type with a fusible switch main. A submeter is installed and it does not appear the service is overloaded.
 - Emergency Power
 - A 30 HP electric fire pump is installed in the main mechanical/electrical room. It is connected to the utility power source only, ahead of the main building switch.
 - No generator or emergency power is installed.
 - Power Distribution
 - Branch circuit power panels are installed throughout the building. Panels were installed in 1998.
 - Most panels have some spare breaker capacity.
 - Classrooms seem to have good outlet coverage.
 - Fire Alarm:
 - System is a Simplex 4010, installed in 1998.
 - Horn/strobe annunciation, manual pull station activation, with automatic smoke detection in corridors.
 - System does not dial out to fire department or notify anyone outside the building.
 - Communications
 - All schools in district are connected together by fiber optic cabling.
 - A modern fiber communications service is installed, and an older copper communications service remains.
 - Copper punchblocks remain and IT department wants to change them over to IP.
 - Technology
 - New projectors and AV equipment are currently being replaced in classrooms.
 - AV system in gymnasium is old. There is desire to update and replace.
 - A clock control system is installed throughout and is original to 1998. Simplex 24V system.
- High School
- Lighting System
 - Most light fixtures are 2'x4' direct/indirect troffers recessed in ACT ceiling systems. There are also pendant light fixtures in open passage areas.
 - All interior light fixtures are fluorescent or HID type and have been replaced or retrofitted with LED lamps in 2008.
 - Lighting Controls
 - All lighting in building is controlled by a networked lighting control system of some kind. There are two separate systems in the building with many control panels. It would be more convenient for the maintenance staff if the older system was replaced and connected to the newer existing system. The newer system is Leviton Z-Max.

3

November 17, 2021

- Classrooms and offices are equipped with ceiling mounted motion sensor occupancy controls. These were installed in 2008. Some have been turned toward wall to restrict automatic light activation.
- There are currently no lighting controls in the older gymnasium. The fixtures are being switched by operating the circuit breakers, which is not acceptable. A lighting control system for the gym should be installed.
- Emergency Lighting
 - Wall and ceiling mounted emergency fixtures are installed throughout the building. They are LED type, from 2020, and in good condition.
 - Exit signs are also newer and are in working order.
 - Coverage of both exit signs and emergency lighting seems to be adequate.
- Exterior Lighting
 - Light poles at the front of the school have been retrofitted with LED fixtures, circa 2008. Fixtures have built in motion sensors and dim light level to 30% when motion is not detected.
 - Exterior lighting is not adequate near the employee entrance. Extra lighting is desired. Wall packs can be installed to light the sidewalk into the building and a light pole can be installed to light the rest of the area.
- Power Service
 - There are two pad-mounted transformers serving the building, each with their own electric meter. One transformer serves the large outdoor chiller. The other serves two distribution switchboards just inside the building.
 - One switchboard is 2000A @ 208Y/120V and the other is 3000A. Both have capacity for a couple more feeder breakers
 - Both have submeters to monitor building usage.
- Power Distribution
 - Branch circuit power panels are installed throughout the building. Panels were installed in 2008.
 - Most panels have some spare breaker capacity.
 - Classrooms seem to have good outlet coverage.
- Fire Alarm:
 - System is an Edwards ETS-2, installed and maintained by Riverside in 2008.
 - Horn/strobe annunciation, manual pull station activation, with automatic smoke detection in corridors.
 - The system in the high school is the only system in the district that is already set up to dial out to the fire department.
- Communications
 - All schools in district are connected together by fiber optic cabling.
 - A modern fiber communications service is installed, and an older copper communications service remains.
 - Copper punchblocks remain and IT department wants to change them over to IP.
 - There is a large data rack with modern network switches and equipment. System is supplied with UPS power.
 - UPS system is 16 KVA, 240.120V with bypass isolation.

West Elementary

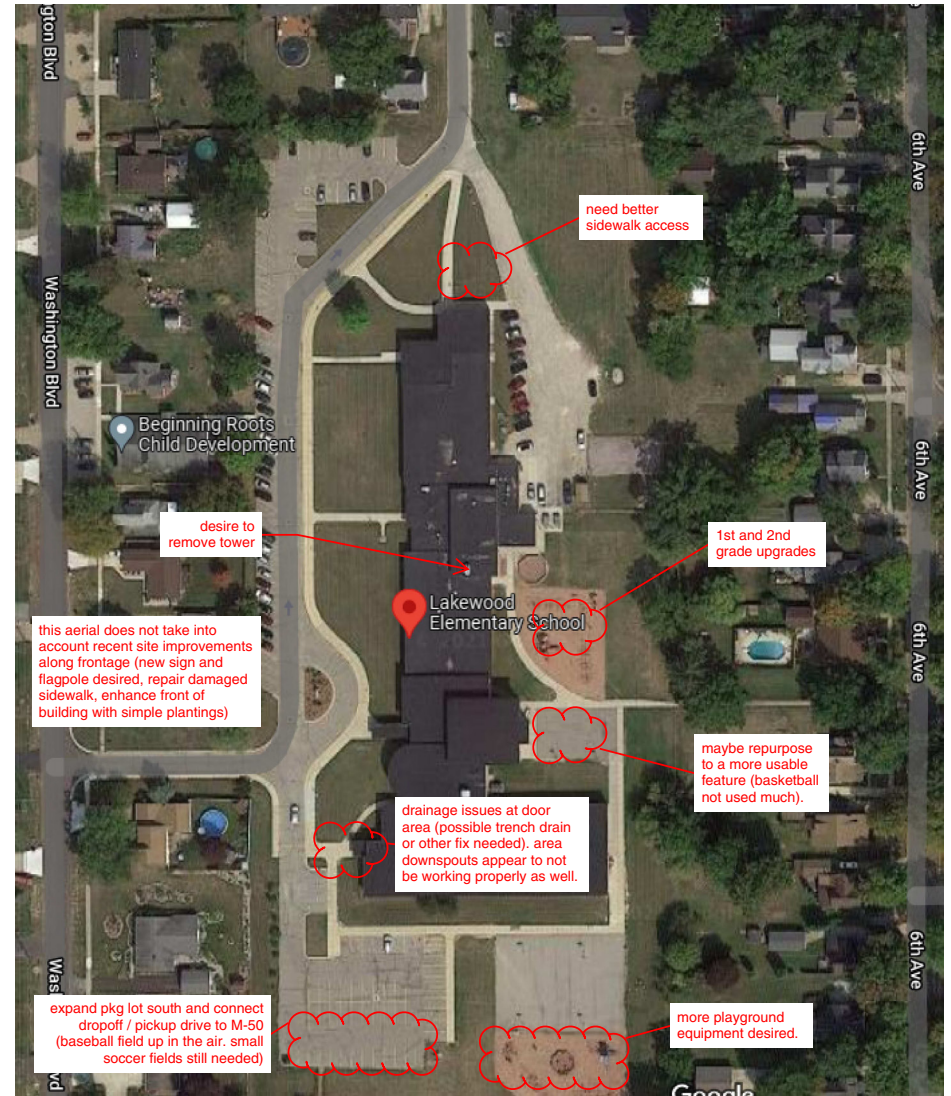
- Lighting System

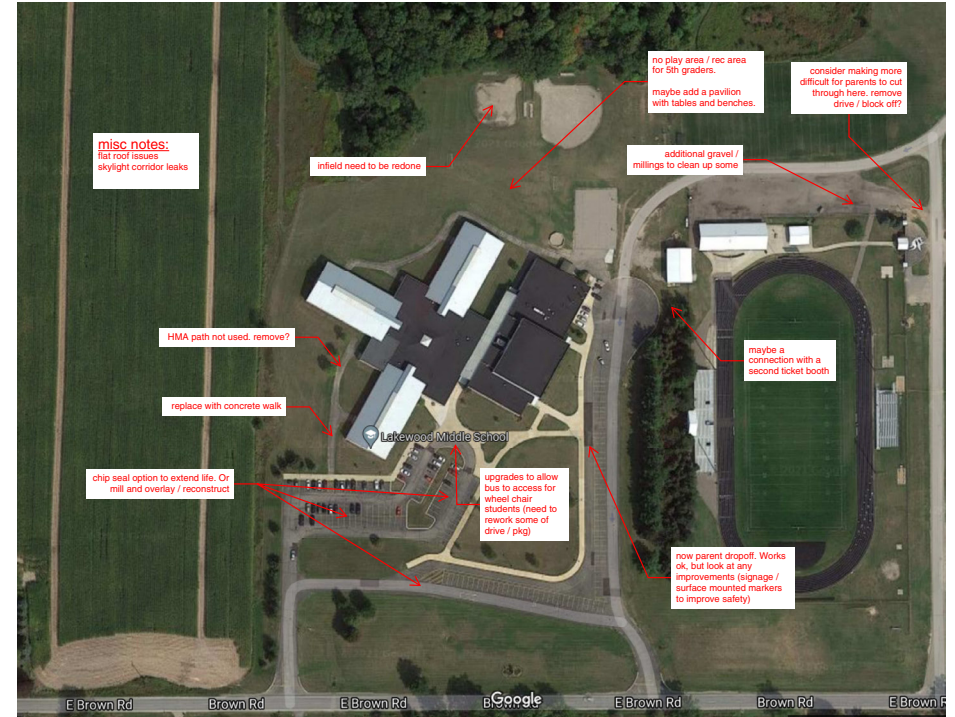
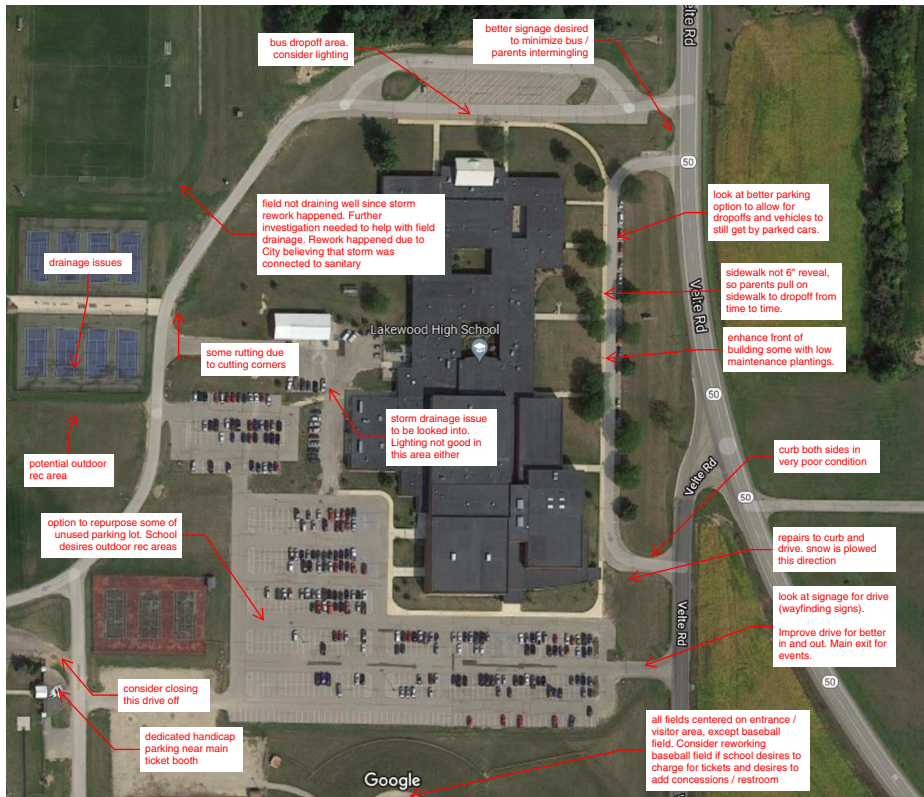
4

November 17, 2021

- Most light fixtures are 2'x4' direct/indirect troffers recessed in ACT ceiling systems. Recessed downlights are installed near entryways. Likely installed in 1998 and is in ok condition.
- All interior light fixtures are fluorescent type and have been retrofitted with LED lamps in 2008.
- Interior light levels are not very high; however no complaints were noted.
- Lighting Controls
 - Interior lighting is controlled by modern dual technology occupancy/vacancy sensors mounted on the ceiling. These were installed recently.
 - Corridors dim to 30% when unoccupied.
- Emergency Lighting
 - Wall and ceiling mounted emergency fixtures are installed throughout the building. They are LED type, from 2020, and in good condition.
 - Exit signs are also newer and are in working order.
 - Coverage of both exit signs and emergency lighting seems to be adequate.
- Exterior Lighting
 - Light poles at the front of the school have been retrofitted with LED fixtures, circa 2008. Fixtures have built in motion sensors and dim light level to 30% when motion is not detected. There are also newer light fixtures and poles since the most recent parking lot addition.
 - Exterior lighting is controlled by a small relay panel.
 - Power is desired for a monument sign in the middle of the circle drive. Nothing is present.
 - No permanent flagpole lighting was installed originally. A solar powered light was placed at the top of the pole.
- Power Service
 - A pad-mounted transformer and outdoor disconnect serve the building with a 1,600A electrical service at 208Y/120V. The service and electrical gear was installed in 1998 and is in ok condition.
 - The main switchboard is circuit breaker type and does not appear to be overloaded. However, there is not any room for more feeder breakers.
- Power Distribution
 - Branch circuit power panels are installed throughout the building. Most were installed in 1998.
 - Most panels of the 1998 vintage have some spare breaker capacity, but not a lot.
 - Classrooms seem to have good outlet coverage. There is wiremold and surface mounted conduit in many places.
- Fire Alarm:
 - System is a Simplex 4010, installed in 1998.
 - Horn/strobe annunciation, manual pull station activation, with automatic smoke detection in corridors.
 - System does not dial out to fire department or notify anyone outside the building.
- Technology
 - New projectors and AV equipment are currently being replaced in classrooms and gymnasium.
 - Video intercom at main entrance door, installed in 2018.

5







Lakewood Public Schools Site Visit Notes (10/28/21)

Early Childhood Center and Maintenance –

- Playground equipment is not age appropriate. School desires for new equipment. School inquired if the equipment could be moved to another location.
- The parking lot East of the maintenance garage needs to be reconstructed (milled down to aggregate grade and 3” of HMA put back). The desire is to expand the HMA where gravel currently exists as well.
- This parking lot is lacking safety lighting / light poles.
- The sidewalk along the front bus dropoff / pickup area is desired to be expanded similarly to what was recently done. This is approximately 90 feet and would allow for a more organized line for dropoff / pickup.

Elementary School –

- Front bus dropoff configuration has changed. Need survey / updated file.
- Enhance front entryway with more plantings to visually upgrade.
- Add new sign and flagpole.
- Drainage issue at front door. Water has gotten in front doors. Appears roof drain issue may be occurring as well.
- Parking lot along South side of school is desired to be expanded further South and a student dropoff / pickup queue line created to allow for additional stacking. A drive connection South to M-50 may be a solution. The baseball field South is up in the air if it is desired to remain or relocate. Small soccer fields are desired to remain or relocated.
- More playground equipment along the South side of the school is desired.
- The pavement area along the East side of the school (1st and 2nd grade area) may be better repurposed to expand play area for the 1st and 2nd graders.
- 1st and 2nd grade playground upgrades are desired.
- The tower on the roof is desired to be completely removed.
- The North end of the building needs better sidewalk connectivity to the entry doors for teachers.

Bus Garage –

- Issues with building and roof.
- No fueling ability.
- No ability to do major maintenance to lift bus due to clearance issues.
- Snow melt in garage bays fills floor with several inches of water and makes difficult to work.

Middle School –

- Parking lot and bus dropoff was patched and sealed in 2019 and 2021. Consider chip seal or mill and overlay / complete reconstruct to minimize continual repairs.
- HMA path on West side of school needs to be replaced with concrete walk. North of teacher entrance could be eliminated (connects to gym?) as it is not used. Or consider replacing with a different material.
- Upgrade the front entryway to better allow wheelchair accessibility / dropoff. Desire to allow for a bus to maneuver to dropoff students if needed.
- Parent dropoff works ok, but safety improvements could help some. Possibility to add signage, additional markings, or surface mounted delineators.
- Consider a connection from the MS to the football field for students. This could also be utilized by attendees if a small ticket booth was added.
- Little league infield in poor condition.
- No specific area for 5th graders to play. Consider adding some equipment or area that they would enjoy.
- Consider adding a covered pavilion with benches and tables to congregate.
- Portions of gravel lot North of football field in poor condition. Consider closing off NE gravel cut through to minimize parents from cutting into lot and waiting for student.

High School –

- Consider better / closer handicap parking near football ticket booth.
- School wants to consider repurposing some of the underutilized parking lot as outdoor rec area. Area south of the tennis courts could also be considered as outdoor rec area.
- There are drainage issues on new tennis courts.
- Storm drain issue along West side of building near teacher parking and entrance area. This area could also see some exterior lighting upgrades.
- There are some areas along curves that vehicles cut corners. Gravel or widening may assist to minimize mud / ponding.
- Soccer field not draining well anymore. City had issues with amount of flow in sewer and believed storm drains were connected to. School reworked storm drain at SE corner of fields to pipe and outlet north. Field not draining well since.
- Bus dropoff area North of school could use more / better lighting.
- Better signage for bus and dropoff entrances along Velte Rd.
- Student dropoff area gets congested. Parents pull onto sidewalk due to it not having a 6” reveal. Parallel parking constricts drive at dropoff time and doesn’t allow for easy exit (3 lanes wide counting the parallel parking). Possibility to expand drive and add angled parking to help with drive width.
- Desire to enhance front of building with additional plantings (low maintenance between dropoff and building and maybe additional trees between road and dropoff).
- Drive / curb where snow is pushed is in poor condition. Consider replacing / reworking to help with snow management.
- Curb for dropoff exit is in poor condition.
- Exit onto Velte Rd from main student / event parking lot gets bottlenecked during events. Consider widening to allow left / right exit lanes. Wayfinding signs desired at this entrance as well.



Lakewood Schools
Technology Estimate

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X
	Component	High School	Middle School	Elementary	ECC	Maintenance	Bus Garage		Total	Material	Labor in hours	Material Extended	Labor Extended	Total	Subtotal	Notes	High School	Middle School	Elementary	ECC	Maintenance	Bus Garage	Total	
2	Cabling Costs																							
3	Cabling																							
4																								
5	Faceplates	113	158	66					337	\$ 8.00	0.25	\$ 2,696.00	\$ 7,161.25	\$ 9,857.25			\$ 3,305.25	\$ 4,621.50	\$ 1,930.50	\$ -	\$ -	\$ -	\$ 9,857.25	
6	CAT-6 Cables	60	180	40	30	8	20		338	\$ 165.00	1.5	\$55,770.00	\$43,095.00	\$ 98,865.00			\$ 17,550.00	\$ 52,650.00	\$ 11,700.00	\$ 8,775.00	\$ 2,340.00	\$ 5,850.00	\$ 98,865.00	
7	CAT-6 for Sec Cams	28	23	16	16	4	4		91	\$ 165.00	1.5	\$15,015.00	\$11,602.50	\$ 26,617.50			\$ 8,190.00	\$ 6,727.50	\$ 4,680.00	\$ 4,680.00	\$ 1,170.00	\$ 1,170.00	\$ 26,617.50	
8	CAT-6A for WAPS	0	0	0	0	0	0		0	\$ 165.00	1.5	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
9	CAT-6 for Clocks	55	45	30	0	0	1		131	\$ 165.00	1.5	\$21,615.00	\$16,702.50	\$ 38,317.50			\$ 16,087.50	\$ 13,162.50	\$ 8,775.00	\$ -	\$ -	\$ 292.50	\$ 38,317.50	
10	Jacks	286	496	172	92	24	50		1120	\$ 6.00	0.2	\$ 6,720.00	\$19,040.00	\$ 25,760.00			\$ 6,578.00	\$ 11,408.00	\$ 3,956.00	\$ 2,116.00	\$ 552.00	\$ 1,150.00	\$ 25,760.00	
11	J-Hooks								0	\$ 3.25	0.25	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
12	Cable labeling	143	248	86	46	12	25		560	\$ 1.00	0.1	\$ 560.00	\$ 4,760.00	\$ 5,320.00			\$ 1,358.50	\$ 2,356.00	\$ 817.00	\$ 437.00	\$ 114.00	\$ 237.50	\$ 5,320.00	
13	Cable testing	143	248	86	46	12	25		560	\$ 1.00	0.1	\$ 560.00	\$ 4,760.00	\$ 5,320.00			\$ 1,358.50	\$ 2,356.00	\$ 817.00	\$ 437.00	\$ 114.00	\$ 237.50	\$ 5,320.00	
14									0	\$ -		\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
15									0	\$ -		\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
16									0	\$ -		\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
17	Fiber Backbone Internal								0	\$ -		\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
18	12 strand 50 Micron								0	\$ 6.00	0.05	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
19	12 strand Singlemode						500		500	\$ 5.00	0.05	\$ 2,500.00	\$ 2,125.00	\$ 4,625.00			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,625.00	
20	Fiber Patch panel						2		2	\$ 500.00	8	\$ 1,000.00	\$ 1,360.00	\$ 2,360.00			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,360.00	
21							2		2	\$ 500.00	8	\$ 1,000.00	\$ 1,360.00	\$ 2,360.00			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,360.00	
22	Wide Area Fiber								0	\$ -		\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
23	6 Strand Sm Fiber								0	\$ 1.00	0.05	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
24	12 Strand Sm Fiber								0	\$ 2.00	0.05	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
25	24 Strand Sm Fiber								0	\$ 4.00	0.05	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
26	Fiber Patch panel								0	\$ 500.00	8	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
27									0	\$ -		\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
28									0	\$ -		\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
29	Copper Backbone								0	\$ -		\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
30	CAT-6 Tie Cables								0	\$ 150.00	1.5	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
31	CAT-6 24-port empty								0	\$ 80.00	4	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
32									0	\$ -		\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
33									0	\$ -		\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
34									0	\$ -		\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
35									0	\$ -		\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
36									0	\$ -		\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
37	Comm Room								0	\$ -		\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
38	2-post Rack								0	\$ 1,000.00	6	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
39	4-post Rack								0	\$ 1,500.00	8	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
40	4' wall cabinet						1		1	\$ 1,200.00	4	\$ 1,200.00	\$ 340.00	\$ 1,540.00			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,540.00	
41	7' floor Cabinet								0	\$ 2,500.00	6	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
42	Plugstrip	0	0	0	0	0	1		1	\$ 350.00	1	\$ 350.00	\$ 85.00	\$ 435.00			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 435.00	
43	CAT-6 24-port empty						2		2	\$ 100.00	8	\$ 200.00	\$ 1,360.00	\$ 1,560.00			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,560.00	
44	Organizers						2		2	\$ 45.00	0.5	\$ 90.00	\$ 85.00	\$ 175.00			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 175.00	
45	Patch Panel Labeling	0	0	0	0	0	2		2	\$ 25.00	1	\$ 50.00	\$ 170.00	\$ 220.00			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 220.00	
46	Patch/Drop cables	143	248	86	46	12	25		560	\$ 6.00	0.05	\$ 3,360.00	\$ 2,380.00	\$ 5,740.00			\$ 1,465.75	\$ 2,542.00	\$ 881.50	\$ 471.50	\$ 123.00	\$ 256.25	\$ 5,740.00	
47	Plywood (4'8)						1		1	\$ 150.00	4	\$ 150.00	\$ 340.00	\$ 490.00			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 490.00	
48	Ground Bar						1		1	\$ 150.00	2	\$ 150.00	\$ 170.00	\$ 320.00			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 320.00	
49	Ground Cable						1		1	\$ 100.00	2	\$ 100.00	\$ 170.00	\$ 270.00			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 270.00	
50									0	\$ -		\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
51	Clocks								0	\$ -		\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
52	Master Clock	1	1	1					3	\$ 2,500.00	8	\$ 7,500.00	\$ 2,040.00	\$ 9,540.00			\$ 3,180.00	\$ 3,180.00	\$ 3,180.00	\$ -	\$ -	\$ -	\$ 9,540.00	
53	Analog Battery Clock								0	\$ 125.00	1	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
54	Analog Clock								0	\$ 200.00	3	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
55	Digital Clocks	55	45	30			1		131	\$ 300.00	3	\$39,300.00	\$33,405.00	\$ 72,705.00			\$ 30,525.00	\$ 24,975.00	\$ 16,650.00	\$ -	\$ -	\$ 555.00	\$ 72,705.00	
56									0	\$ -		\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
57									0	\$ -		\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
58									0	\$ -		\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
59									0	\$ -		\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	

Lakewood Bond Tech Budget-01



Lakewood Schools
Technology Estimate

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X
1	Component	High School	Middle School	Elementary	ECC	Maintenance	Bus Garage		Total	Material	Labor in hours	Material Extended	Labor Extended	Total	Subtotal	Notes	High School	Middle School	Elementary	ECC	Maintenance	Bus Garage	Total	
92	Access Control System/Intrusion Detection																							
93	Server	1							1	\$8,000.00	120	\$ 8,000.00	\$10,200.00	\$ 18,200.00			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
94	Enclosure	1	1	1	1	1	1		6	\$1,250.00	8	\$ 7,500.00	\$ 4,080.00	\$ 11,580.00			\$ 1,930.00	\$ 1,930.00	\$ 1,930.00	\$ 1,930.00	\$ 1,930.00	\$ 1,930.00	\$ 11,580.00	
95	Software License	5	4	4	4	1	1		19	\$200.00	4	\$ 3,800.00	\$ 6,460.00	\$ 10,260.00			\$ 2,700.00	\$ 2,160.00	\$ 2,160.00	\$ 2,160.00	\$ 540.00	\$ 540.00	\$ 10,260.00	
96	IP enabled 2-door panel	1	1	1	1	1	1		6	\$2,250.00	12	\$13,500.00	\$ 6,120.00	\$ 19,620.00			\$ 3,270.00	\$ 3,270.00	\$ 3,270.00	\$ 3,270.00	\$ 3,270.00	\$ 3,270.00	\$ 19,620.00	
97	RS-485 Panel 2-doors	1	1	1	1				4	\$1,500.00	12	\$ 6,000.00	\$ 4,080.00	\$ 10,080.00			\$ 2,520.00	\$ 2,520.00	\$ 2,520.00	\$ 2,520.00	\$ -	\$ -	\$ 10,080.00	
98	I/O Panel	1	1	1	1				4	\$1,000.00	12	\$ 4,000.00	\$ 4,080.00	\$ 8,080.00			\$ 2,020.00	\$ 2,020.00	\$ 2,020.00	\$ 2,020.00	\$ -	\$ -	\$ 8,080.00	
99	Cellular Dialer								0	\$2,500.00	6	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
100														\$ -										\$ -
101	Door Locks													\$ -										\$ -
102	Card Reader	5	4	4	4	1	1		19	\$400.00	3	\$ 7,600.00	\$ 4,845.00	\$ 12,445.00			\$ 3,275.00	\$ 2,620.00	\$ 2,620.00	\$ 2,620.00	\$ 655.00	\$ 655.00	\$ 12,445.00	
103	Latch Retraction								0	\$300.00	4	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
104	Electric Lock								0	\$300.00	4	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
105	Electric Stikes								0	\$250.00	3	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
106	Magnetic lock								0	\$250.00	2	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
107	Wired Lock AD-300 with Cable								0	\$2,400.00	6	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
108	Wireless lock								0	\$2,000.00	4	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
109	PIM								0	\$300.00	4	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
110														\$ -										\$ -
111	Door Device													\$ -										\$ -
112	Door Contact	35	25	15	15	5	5		100	\$75.00	2	\$ 7,500.00	\$17,000.00	\$ 24,500.00			\$ 8,575.00	\$ 6,125.00	\$ 3,675.00	\$ 3,675.00	\$ 1,225.00	\$ 1,225.00	\$ 24,500.00	
113	Garage Contact								0	\$80.00	2	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
114	Request to Exit								0	\$100.00	1	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
115	Motion Request to Exit								0	\$140.00	1	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
116	Door Release Button								0	\$75.00	1	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
117	No Touch Wave Switch								0	\$85.00	1	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
118														\$ -										\$ -
119	Device at Desk													\$ -										\$ -
120	Push Button	4	4	4	4				16	\$50.00	1	\$ 800.00	\$ 1,360.00	\$ 2,160.00			\$ 540.00	\$ 540.00	\$ 540.00	\$ 540.00	\$ -	\$ -	\$ 2,160.00	
121	Panic Button								0	\$45.00	1	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
122	Toggle Switch	1	1	1	1				4	\$65.00	1	\$ 260.00	\$ 340.00	\$ 600.00			\$ 150.00	\$ 150.00	\$ 150.00	\$ 150.00	\$ -	\$ -	\$ 600.00	
123	Lockdown Button	1	1	1	1				4	\$90.00	4	\$ 360.00	\$ 1,360.00	\$ 1,720.00			\$ 430.00	\$ 430.00	\$ 430.00	\$ 430.00	\$ -	\$ -	\$ 1,720.00	
124	Strobe Light								0	\$200.00	1	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
125	Cables for Access													\$ -										\$ -
126	Ctrl	46	35	25	25	6	6		143	\$125.00	1.5	\$17,875.00	\$18,232.50	\$ 36,107.50			\$ 11,615.00	\$ 8,837.50	\$ 6,312.50	\$ 6,312.50	\$ 1,515.00	\$ 1,515.00	\$ 36,107.50	
127	ID Cards and Equip													\$ -										\$ -
128	ID cards								0	\$7.00	0.5	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
129	ID Card Printer								0	\$2,000.00	6	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
130	Laptop and Cam for Badge printer								0	\$2,500.00	6	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
131	Training Hours								0	\$90.00	0	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
132														\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
133														\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
134														\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
135														\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
136	Intrusion Detection													\$ -										\$ -
137	Intrusion Panel								0	\$1,500.00	24	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
138	Intrusion Dialer								0	\$750.00	4	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
139	Motion Sensor								0	\$75.00	1	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
140	Intrusion Keypad								0	\$250.00	6	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
141	Cables for Intrusion	0	0	0	0	0	0		0	\$125.00	1	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
142														\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
143														\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Lakewood Bond Tech Budget-01



Lakewood Schools
Technology Estimate

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X
	Component	High School	Middle School	Elementary	ECC	Maintenance	Bus Garage																	
1								Total	Material	Labor in hours	Material Extended	Labor Extended	Total	Subtotal	Notes	High School	Middle School	Elementary	ECC	Maintenance	Bus Garage	Total		
60	Street Sign																							
61	Sign	1						1	\$ 7,000.00	40	\$ 7,000.00	\$ 3,400.00	\$ 10,400.00			\$ 10,400.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
62	Cabling	1						1	\$ 2,000.00	16	\$ 2,000.00	\$ 1,360.00	\$ 3,360.00			\$ 3,360.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
63																								
64																								
65																								
66																								
67	Security Systems																							
68																								
69	Video Security System																							
70	Server	1						1	\$25,000.00	80	\$25,000.00	\$ 6,800.00	\$ 31,800.00			\$ 31,800.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
71	VMS Software							0	\$ 5,000.00	120	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
72	Hallway Camera							0	\$ 650.00	3	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
73	Entry Camera	2	2	2	2			8	\$ 900.00	3	\$ 7,200.00	\$ 2,040.00	\$ 9,240.00			\$ 2,310.00	\$ 2,310.00	\$ 2,310.00	\$ 2,310.00	\$ -	\$ -	\$ -	\$ -	\$ 9,240.00
74	Gym Camera	2	2	2	2			8	\$ 1,200.00	3	\$ 9,600.00	\$ 2,040.00	\$ 11,640.00			\$ 2,910.00	\$ 2,910.00	\$ 2,910.00	\$ 2,910.00	\$ -	\$ -	\$ -	\$ -	\$ 11,640.00
75	360 Camera	6	6	2	2			16	\$ 1,200.00	3	\$19,200.00	\$ 4,080.00	\$ 23,280.00			\$ 8,730.00	\$ 8,730.00	\$ 2,910.00	\$ 2,910.00	\$ -	\$ -	\$ -	\$ -	\$ 23,280.00
76	5 MP External							0	\$ 1,250.00	6	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
77	4K External	12	7	6	6	4	4	39	\$ 1,600.00	6	\$62,400.00	\$19,890.00	\$ 82,290.00			\$ 25,320.00	\$ 14,770.00	\$ 12,660.00	\$ 12,660.00	\$ 8,440.00	\$ 8,440.00	\$ -	\$ -	\$ 82,290.00
78	Multi-sensor External	6	6	4	4			20	\$ 2,500.00	6	\$50,000.00	\$10,200.00	\$ 60,200.00			\$ 18,060.00	\$ 18,060.00	\$ 12,040.00	\$ 12,040.00	\$ -	\$ -	\$ -	\$ -	\$ 60,200.00
79	PTZ Camera							0	\$ 3,500.00	8	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
80	Camera License	28	23	16	16	4	4	91	\$ 250.00	0	\$22,750.00	\$ -	\$ 22,750.00			\$ 7,000.00	\$ 5,750.00	\$ 4,000.00	\$ 4,000.00	\$ 1,000.00	\$ 1,000.00	\$ -	\$ -	\$ 22,750.00
81	Training (hours)							0	\$ 1.00	1	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
82																								
83																								
84																								
85																								
86	Video Monitoring																							
87	PC							0	\$2,000.00	4	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
88	LCD and Mount							0	\$ 2,000.00	6	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
89	PC Cabling	0	0	0	0	0	0	0	\$ 450.00	2	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
90																								
91																								



Lakewood Schools
Technology Estimate

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X
1	Component	High School	Middle School	Elementary	ECC	Maintenance	Bus Garage	Total	Material	Labor in hours	Material Extended	Labor Extended	Total	Subtotal	Notes	High School	Middle School	Elementary	ECC	Maintenance	Bus Garage	Total		
144																								
145	Intercom																							
146	Exterior Intercom	2	2	2	2			8	\$ 1,400.00	4	\$11,200.00	\$ 2,720.00	\$ 13,920.00			\$ 3,480.00	\$ 3,480.00	\$ 3,480.00	\$ 3,480.00	\$ -	\$ -	\$ -	\$ -	\$ -
147	Interior Base Station	2	2	2	2			8	\$ 1,600.00	4	\$12,800.00	\$ 2,720.00	\$ 15,520.00			\$ 3,880.00	\$ 3,880.00	\$ 3,880.00	\$ 3,880.00	\$ -	\$ -	\$ -	\$ -	\$ -
148	IP Interface	1	1	1	1			4	\$ 700.00	6	\$ 2,800.00	\$ 2,040.00	\$ 4,840.00			\$ 1,210.00	\$ 1,210.00	\$ 1,210.00	\$ 1,210.00	\$ -	\$ -	\$ -	\$ -	\$ -
149	Intercom Cabling	5	5	5	5	0	0	20	\$ 175.00	2	\$ 3,500.00	\$ 3,400.00	\$ 6,900.00	Subtotal		\$ 1,725.00	\$ 1,725.00	\$ 1,725.00	\$ 1,725.00	\$ -	\$ -	\$ -	\$ -	\$ -
150														\$ 41,180.00		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
151																\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
152																\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
153	Audio and Video Systems																							
154																\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
155	Classroom AV															\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
156	Ceiling Project+Mnt			2				2	\$ 1,100.00	3	\$ 2,200.00	\$ 510.00	\$ 2,710.00			\$ -	\$ -	\$ -	\$ 2,710.00	\$ -	\$ -	\$ -	\$ -	\$ 2,710.00
157	Projection Screen	0	0	2	0	0	0	2	\$ 500.00	3	\$ 1,000.00	\$ 510.00	\$ 1,510.00			\$ -	\$ -	\$ -	\$ 1,510.00	\$ -	\$ -	\$ -	\$ -	\$ 1,510.00
158																\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
159	Short Throw Proj.							0	\$ 2,200.00	8	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
160																\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
161	65" LCD			4				4	\$ 2,750.00	5	\$11,000.00	\$ 1,700.00	\$ 12,700.00			\$ -	\$ -	\$ -	\$ 12,700.00	\$ -	\$ -	\$ -	\$ -	\$ 12,700.00
162	80" LCD							0	\$ 6,500.00	5	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
163	70" Touch LCD							0	\$ 3,500.00	6	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
164	LCD Pull out Mount	0	0	4	0	0	0	4	\$ 450.00	3	\$ 1,800.00	\$ 1,020.00	\$ 2,820.00			\$ -	\$ -	\$ -	\$ 2,820.00	\$ -	\$ -	\$ -	\$ -	\$ 2,820.00
165																\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
166																\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
167	Audio/Video Cabling	0	0	6	0	0	0	6	\$ 350.00	3	\$ 2,100.00	\$ 1,530.00	\$ 3,630.00			\$ -	\$ -	\$ -	\$ 3,630.00	\$ -	\$ -	\$ -	\$ -	\$ 3,630.00
168	IR Mic with audio	0	0	6	0	0	0	6	\$ 1,300.00	2	\$ 7,800.00	\$ 1,020.00	\$ 8,820.00			\$ -	\$ -	\$ -	\$ 8,820.00	\$ -	\$ -	\$ -	\$ -	\$ 8,820.00
169	AVSwitcher	0	0	6	0	0	0	6	\$ 1,500.00	4	\$ 9,000.00	\$ 2,040.00	\$ 11,040.00			\$ -	\$ -	\$ -	\$ 11,040.00	\$ -	\$ -	\$ -	\$ -	\$ 11,040.00
170	Document Camera	0	0	6	0	0	0	6	\$ 500.00	1	\$ 3,000.00	\$ 510.00	\$ 3,510.00			\$ -	\$ -	\$ -	\$ 3,510.00	\$ -	\$ -	\$ -	\$ -	\$ 3,510.00
171																\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
172	Control Plate (Pixie?)	0	0	6	0	0	0	6	\$ 270.00	2	\$ 1,620.00	\$ 1,020.00	\$ 2,640.00			\$ -	\$ -	\$ -	\$ 2,640.00	\$ -	\$ -	\$ -	\$ -	\$ 2,640.00
173														Subtotal		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
174														\$ 49,380.00		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
175																\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -



Lakewood Schools
Technology Estimate

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X
	Component	High School	Middle School	Elementary	ECC	Maintenance	Bus Garage	Total	Material	Labor in hours	Material Extended	Labor Extended	Total	Subtotal	Notes	High School	Middle School	Elementary	ECC	Maintenance	Bus Garage	Total		
176	Conference Room AV							0	\$ 1,200.00	4	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
177	55" LCD							2	\$ 1,900.00	4	\$ 3,800.00	\$ 680.00	\$ 4,480.00			\$ 2,240.00	\$ 2,240.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,480.00
178	65" LCD	1	1					0	\$ 3,500.00	4	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
179	75" LCD							0	\$ 3,200.00	6	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
180	86" LCD							0	\$ 3,200.00	6	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
181	98" LCD							0	\$ 9,500.00	6	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
182	70" Touch LCD							0	\$ 4,500.00	6	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
183	LCD Mount	1	1	0	0	0	0	2	\$ 450.00	2	\$ 900.00	\$ 340.00	\$ 1,240.00			\$ 620.00	\$ 620.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,240.00
184													\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
185	Audio/Video Cabling	1	1	0	0	0	0	2	\$ 350.00	3	\$ 700.00	\$ 510.00	\$ 1,210.00			\$ 605.00	\$ 605.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,210.00
186	Crestron Control Plate	1	1					2	\$ 300.00	2	\$ 600.00	\$ 340.00	\$ 940.00			\$ 470.00	\$ 470.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 940.00
187	Desktop Mic/spkr	1	1					2	\$ 150.00	0.5	\$ 300.00	\$ 85.00	\$ 385.00			\$ 192.50	\$ 192.50	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 385.00
188	Conf Camera							0	\$ 200.00	2	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
189	PTZ Conf Camera	1	1					2	\$ 650.00	2	\$ 1,300.00	\$ 340.00	\$ 1,640.00			\$ 820.00	\$ 820.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,640.00
190	HDMI_USB to UTP	1	1					2	\$ 500.00	4	\$ 1,000.00	\$ 680.00	\$ 1,680.00			\$ 840.00	\$ 840.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,680.00
191													\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
192													\$ -	Subtotal		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
193													\$ -	\$ 11,575.00		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
194													\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
195	Boardroom AV												\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
196	Speakers							0	\$ 150.00	2	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
197	Mixer/DSP							0	\$ 3,000.00	16	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
198	Touchpanel							0	\$ 1,500.00	8	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
199	AV input Plates							0	\$ 3,000.00	6	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
200	Audio Amplifier							0	\$ 1,000.00	2	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
201	Wired Microphone							0	\$ 150.00	2	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
202	Wireless Microphone							0	\$ 1,100.00	2	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
203	Ceiling Mic							0	\$ 800.00	4	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
204	Array Ceiling Mic							0	\$ 3,500.00	12	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
205	Audio Cabling							0	\$ 1,000.00	24	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
206													\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
207	Ethernet Switch							0	\$ 800.00	4	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
208													\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
209	Long Projector and Mount							0	\$ 7,000.00	8	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
210	Short Projector							0	\$ 2,500.00	4	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
211	55" LCD							0	\$ 1,200.00	4	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
212	65" LCD							0	\$ 1,900.00	4	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
213	75" LCD							0	\$ 3,500.00	4	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
214	86" LCD							0	\$ 6,200.00	6	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
215	98" LCD							0	\$ 9,500.00	6	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
216	LCD Mount							0	\$ 450.00	2	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
217	PTZ Conf Camera							0	\$ 2,000.00	6	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
218	IP Encoder							0	\$ 800.00	3	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
219	IP Decoder							0	\$ 800.00	3	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
220													\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
221	Crestron DMPS 350							0	\$ 3,500.00	24	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
222	Crestron Touchpanel							0	\$ 1,500.00	8	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
223	DM input							0	\$ 1,400.00	6	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
224	DM output							0	\$ 1,400.00	6	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
225	4 series Controller							0	\$ 2,500.00	16	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
226	Spkr and Mic Cables	0	0	0	0	0	0	0	\$ 350.00	8	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
227	Cabinet							0	\$ 1,400.00	6	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
228	Power Bar							0	\$ 350.00	1	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
229													\$ -	Subtotal		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
230													\$ -	\$ -		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
231													\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
232													\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
233	Digital Signage												\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Lakewood Bond Tech Budget-01



Lakewood Schools
Technology Estimate

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X
1	Component	High School	Middle School	Elementary	ECC	Maintenance	Bus Garage		Total	Material	Labor in hours	Material Extended	Labor Extended	Total	Subtotal	Notes	High School	Middle School	Elementary	ECC	Maintenance	Bus Garage	Total	
272	Auditorium																							
273	Speakers and Mount	8							8	\$ 1,200.00	6	\$ 9,600.00	\$ 4,080.00	\$ 13,680.00			\$ 13,680.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
274	Amplifiers	2							2	\$ 1,000.00	2	\$ 2,000.00	\$ 340.00	\$ 2,340.00			\$ 2,340.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
275	Amp Cabling	1							1	\$ 125.00	1	\$ 125.00	\$ 85.00	\$ 210.00			\$ 210.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
276	DSP/Mixer	1							1	\$ 8,000.00	32	\$ 8,000.00	\$ 2,720.00	\$ 10,720.00			\$ 10,720.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
277	Wired Microphone	1							1	\$ 150.00	2	\$ 150.00	\$ 170.00	\$ 320.00			\$ 320.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
278	Mic Antenna	1							1	\$ 750.00	6	\$ 750.00	\$ 510.00	\$ 1,260.00			\$ 1,260.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
279	Wireless Mic	8							8	\$ 1,100.00	3	\$ 8,800.00	\$ 2,040.00	\$ 10,840.00			\$ 10,840.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
280	Cabinet	1							1	\$ 2,500.00	12	\$ 2,500.00	\$ 1,020.00	\$ 3,520.00			\$ 3,520.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
281	Power Bar	1							1	\$ 2,000.00	4	\$ 2,000.00	\$ 340.00	\$ 2,340.00			\$ 2,340.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
282	Spkr and Mic Cables	10	0	0	0	0	0	0	10	\$ 350.00	2	\$ 3,500.00	\$ 1,700.00	\$ 5,200.00			\$ 5,200.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
283	Long Projector and Mount	1							1	\$12,000.00	40	\$12,000.00	\$ 3,400.00	\$ 15,400.00			\$ 15,400.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
284																								
285																								
286																								
287																								
288	Football field Audio																							
289	Speakers and Mount	6							6	\$ 1,400.00	8	\$ 8,400.00	\$ 4,080.00	\$ 12,480.00			\$ 12,480.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
290	Amplifiers	3							3	\$ 1,000.00	2	\$ 3,000.00	\$ 510.00	\$ 3,510.00			\$ 3,510.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
291	Amp Cabling	1							1	\$ 125.00	1	\$ 125.00	\$ 85.00	\$ 210.00			\$ 210.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
292	DSP/Mixer	1							1	\$ 3,000.00	24	\$ 3,000.00	\$ 2,040.00	\$ 5,040.00			\$ 5,040.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
293	Wired Microphone	1							1	\$ 150.00	2	\$ 150.00	\$ 170.00	\$ 320.00			\$ 320.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
294	Mic Antenna	1							1	\$ 750.00	6	\$ 750.00	\$ 510.00	\$ 1,260.00			\$ 1,260.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
295	Wireless Mic	2							2	\$ 1,500.00	3	\$ 3,000.00	\$ 510.00	\$ 3,510.00			\$ 3,510.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
296	Cabinet	1							1	\$ 2,500.00	6	\$ 2,500.00	\$ 510.00	\$ 3,010.00			\$ 3,010.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
297	Power Bar	1							1	\$ 350.00	1	\$ 350.00	\$ 85.00	\$ 435.00			\$ 435.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
298	Spkr and Mic Cables	8	0	0	0	0	0	0	8	\$ 350.00	2	\$ 2,800.00	\$ 1,360.00	\$ 4,160.00			\$ 4,160.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
299																								
300																								
301																								
302	Baseball/Softball Audio																							
303	Speakers and Mount	4							4	\$ 800.00	8	\$ 3,200.00	\$ 2,720.00	\$ 5,920.00			\$ 5,920.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
304	Amplifiers	2							2	\$ 1,000.00	2	\$ 2,000.00	\$ 340.00	\$ 2,340.00			\$ 2,340.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
305	Mixer	1							1	\$ 900.00	8	\$ 900.00	\$ 680.00	\$ 1,580.00			\$ 1,580.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
306	Wired Microphone	1							1	\$ 150.00	2	\$ 150.00	\$ 170.00	\$ 320.00			\$ 320.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
307	Mic Antenna	1							1	\$ 750.00	6	\$ 750.00	\$ 510.00	\$ 1,260.00			\$ 1,260.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
308	Wireless Mic	1							1	\$ 1,500.00	3	\$ 1,500.00	\$ 255.00	\$ 1,755.00			\$ 1,755.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
309	Cabinet	1							1	\$ 1,800.00	5	\$ 1,800.00	\$ 425.00	\$ 2,225.00			\$ 2,225.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
310	Power Bar	1							1	\$ 350.00	1	\$ 350.00	\$ 85.00	\$ 435.00			\$ 435.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
311	Spkr and Mic Cables	6	0	0	0	0	0	0	6	\$ 350.00	2	\$ 2,100.00	\$ 1,020.00	\$ 3,120.00			\$ 3,120.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
312																								
313																								
314																								
315																								



Lakewood Schools
Technology Estimate

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X
1	Component	High School	Middle School	Elementary	ECC	Maintenance	Bus Garage		Total	Material	Labor in hours	Material Extended	Labor Extended	Total	Subtotal	Notes	High School	Middle School	Elementary	ECC	Maintenance	Bus Garage	Total	
234	55" LCD								0	\$ 1,200.00	4	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
235	65" LCD	1	1	1	1				4	\$ 1,900.00	4	\$ 7,600.00	\$ 1,360.00	\$ 8,960.00			\$ 2,240.00	\$ 2,240.00	\$ 2,240.00	\$ 2,240.00	\$ -	\$ -	\$ -	\$ 8,960.00
236	75" LCD								0	\$ 3,500.00	4	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
237	86" LCD								0	\$ 3,200.00	6	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
238	98" LCD								0	\$ 9,500.00	6	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
239	LCD Mount	1	1	1	1	0	0		4	\$ 450.00	2	\$ 1,800.00	\$ 680.00	\$ 2,480.00			\$ 620.00	\$ 620.00	\$ 620.00	\$ 620.00	\$ -	\$ -	\$ -	\$ 2,480.00
240	Digital Signage Player	1	1	1	1	0	0		4	\$ 550.00	6	\$ 2,200.00	\$ 2,040.00	\$ 4,240.00			\$ 1,060.00	\$ 1,060.00	\$ 1,060.00	\$ 1,060.00	\$ -	\$ -	\$ -	\$ 4,240.00
241	Audio/Video Cabling	1	1	1	1	0	0		4	\$ 150.00	2	\$ 600.00	\$ 680.00	\$ 1,280.00	Subtotal		\$ 320.00	\$ 320.00	\$ 320.00	\$ 320.00	\$ -	\$ -	\$ -	\$ 1,280.00
242														\$ 16,960.00			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
243																	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
244																	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
245																	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
246	Cafeteria Audio																\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
247	Speakers								0	\$ 400.00	8	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
248	Mixer/DSP								0	\$ 1,500.00	6	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
249	Amplifier								0	\$ 1,000.00	2	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
250	Wired Microphone								0	\$ 150.00	2	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
251	Wireless Microphone								0	\$ 1,100.00	2	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
252	Spkr and Mic Cables	0	0	0	0	0	0		0	\$ 350.00	8	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
253	Cabinet								0	\$ 1,400.00	6	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
254	Power Bar								0	\$ 350.00	1	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
255																	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
256																	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
257																	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
258	Gym Audio																\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
259	Speakers and Mount	8	4						12	\$ 500.00	6	\$ 6,000.00	\$ 6,120.00	\$ 12,120.00			\$ 8,080.00	\$ 4,040.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 12,120.00
260	Amplifiers	2	1						3	\$ 1,000.00	2	\$ 3,000.00	\$ 510.00	\$ 3,510.00			\$ 2,340.00	\$ 1,170.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,510.00
261	Amp Cabling	1	1						2	\$ 125.00	1	\$ 250.00	\$ 170.00	\$ 420.00			\$ 210.00	\$ 210.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 420.00
262	DSP/Mixer	1	1						2	\$ 3,000.00	24	\$ 6,000.00	\$ 4,080.00	\$ 10,080.00			\$ 5,040.00	\$ 5,040.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 10,080.00
263	Wired Microphone	1	1						2	\$ 150.00	2	\$ 300.00	\$ 340.00	\$ 640.00			\$ 320.00	\$ 320.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 640.00
264	Mic Antenna	1	1						2	\$ 750.00	6	\$ 1,500.00	\$ 1,020.00	\$ 2,520.00			\$ 1,260.00	\$ 1,260.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,520.00
265	Wireless Mic	2	1						3	\$ 1,100.00	3	\$ 3,300.00	\$ 765.00	\$ 4,065.00			\$ 2,710.00	\$ 1,355.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,065.00
266	Cabinet	1	1						2	\$ 1,400.00	6	\$ 2,800.00	\$ 1,020.00	\$ 3,820.00			\$ 1,910.00	\$ 1,910.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,820.00
267	Power Bar	1	1						2	\$ 350.00	1	\$ 700.00	\$ 170.00	\$ 870.00			\$ 435.00	\$ 435.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 870.00
268	Spkr and Mic Cables	10	6	0	0	0	0		16	\$ 350.00	2	\$ 5,600.00	\$ 2,720.00	\$ 8,320.00	Subtotal		\$ 5,200.00	\$ 3,120.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 8,320.00
269																	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
270																	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
271																	\$ 46,365.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -



Lakewood Schools
Technology Estimate

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X
1	Component	High School	Middle School	Elementary	ECC	Maintenance	Bus Garage		Total	Material	Labor in hours	Material Extended	Labor Extended	Total	Subtotal	Notes	High School	Middle School	Elementary	ECC	Maintenance	Bus Garage	Total	
316	Music Room Audio																							
317	Speakers								0	\$ 600.00	2	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
318	Mixer/DSP								0	\$ 1,000.00	4	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
319	Ceiling Microphone								0	\$ 800.00	3	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
320	Digital Recorder								0	\$ 250.00	2	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
321	Wireless MIC								0	\$ 1,250.00	2	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
322	Wired Microphone								0	\$ 150.00	1	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
323	Mic Mixer								0	\$ 1,000.00	2	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
324	Cabinet								0	\$ 1,400.00	6	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
325	Power Bar								0	\$ 350.00	1	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
326	Spkr and Mic Cables	0	0	0	0	0	0		0	\$ 350.00	16	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
327																								
328																								
329																								
330																								
331	Paging / Bell System																							
332	Paging Speakers		85						85	\$ 60.00	1	\$ 5,100.00	\$ 7,225.00	\$ 12,325.00			\$ -	\$ 12,325.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 12,325.00
333	Speaker Cabling	0	85	0	0	0	0		85	\$ 60.00	1	\$ 5,100.00	\$ 7,225.00	\$ 12,325.00			\$ -	\$ 12,325.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 12,325.00
334	Paging MIC		1						1	\$ 125.00	1	\$ 125.00	\$ 85.00	\$ 210.00			\$ -	\$ 210.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 210.00
335	Paging Core		1						1	\$ 5,000.00	40	\$ 5,000.00	\$ 3,400.00	\$ 8,400.00			\$ -	\$ 8,400.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 8,400.00
336	Amplifier		4						4	\$ 1,500.00	2	\$ 6,000.00	\$ 680.00	\$ 6,680.00			\$ -	\$ 6,680.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,680.00
337	Volume Control								0	\$ 40.00	1	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
338	Bell System		1						1	\$ 4,000.00	16	\$ 4,000.00	\$ 1,360.00	\$ 5,360.00			\$ -	\$ 5,360.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,360.00
339																								
340																								
341																								
342	NETWORK DEVICES																							
343																								
344	Telephone System																							
345	Class Telephone								0	\$ 175.00	2	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
346	Admin Telephone								0	\$ 325.00	2	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
347	Building Appliance								0	\$ 5,000.00	30	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
348	Telephone Server								0	\$ 12,500.00	80	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
349	Training								0	\$ -	1	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
350	Licensing	0	0	0	0	0	0		0	\$ 150.00	0.25	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
351																								
352																								
353																								
354	Data Networking																							
355	Core Switch								0	\$ 25,000.00	40	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
356	Edge Switch								0	\$ 5,000.00	10	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
357	User Switch								0	\$ 3,500.00	6	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
358	Wireless Access Point								0	\$ 650.00	4	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
359	Wireless Controller								0	\$ 15,000.00	40	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
360																								
361																								
362																								



Lakewood Schools
Technology Estimate

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X
1	Component	High School	Middle School	Elementary	ECC	Maintenance	Bus Garage	Total	Material	Labor in hours	Material Extended	Labor Extended	Total	Subtotal	Notes	High School	Middle School	Elementary	ECC	Maintenance	Bus Garage	Total		
363	SERVERS AND PC'S																							
364																								
365	Servers																							
366	Servers							0	\$10,000.00	20	\$	\$												
367	Backup Server							0	\$ 8,000.00	20	\$	\$												
368	Network Storage							0	\$20,000.00	50	\$	\$			Subtotal									
369																								
370																								
371	Desktops																							
372	Admin Desktop							0	\$ 1,000.00	0.5	\$	\$												
373	PC Lab Desktop							0	\$ 1,000.00	0.5	\$	\$												
374	Teacher Desktop							0	\$ 1,000.00	0.5	\$	\$			Subtotal									
375																								
376																								
377	Laptops																							
378	Admin Laptop							0	\$ 1,000.00	0.5	\$	\$												
379	Teacher Laptop							0	\$ 1,000.00	0.5	\$	\$												
380	Laptop for Cart							0	\$ 1,000.00	0.5	\$	\$												
381	Laptop Cart							0	\$ 2,500.00	4	\$	\$			Subtotal									
382																								
383	Student Devices-Chromebook																							
384	Grade K							0	\$ 250.00	1	\$	\$												
385	Grade 1							0	\$ 250.00	1	\$	\$												
386	Grade 2							0	\$ 250.00	1	\$	\$												
387	Grade 3							0	\$ 250.00	1	\$	\$												
388	Grade 4							0	\$ 250.00	1	\$	\$												
389	Grade 5							0	\$ 250.00	1	\$	\$												
390	Grade 6							0	\$ 250.00	1	\$	\$												
391	Grade 7							0	\$ 250.00	1	\$	\$												
392	Grade 8							0	\$ 250.00	1	\$	\$												
393	Grade 9							0	\$ 250.00	1	\$	\$												
394	Grade 10							0	\$ 250.00	1	\$	\$												
395	Grade 11							0	\$ 250.00	1	\$	\$												
396	Grade 12							0	\$ 250.00	1	\$	\$			Subtotal									
397																								
398	Fee																							
399	Consultant Design	5.5%																						
400	Consulant Const Adm	2.5%																						
401																								
402																								
403																								
404	Total:																							
405																								
406																								
407																								
408																								
409																								



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 Berkley, Michigan 48072
 Phone 248-547-7757
 www.foresitedesign.com
 hollis@foresitedesign.com

11/5/2021

Per site visit and review of the outdoor athletic facilities at Lakewood High School, below is my understanding of scope needs for the athletic facility improvements.

Soccer Field

- New 4" bypass drainage system
- Sand topdressing and overseeding

Tennis

- Crack repair
- Asphalt overlay
- New acrylic surface
- New perimeter fence is old but condition is fair
- Remove vegetation from the perimeter of the pavement and grading the surrounding earth to slope away for the tennis courts will improve stormwater runoff

Stadium

8-Lane Track & Field Event Reconstruction

- Demolish existing track and field events
- New perimeter subdrain system (to connect to existing system)
- Minimal excavation and subgrade prep
- New aggregate & asphalt
- Field event construction
- All-weather track surface

Fence work

- Demolish of existing track and perimeter chainlink fencing
- New 4' chainlink fencing at track
- New 6' chainlink fencing around perimeter of stadium

New synthetic turf multi-purpose field

- Excavation
- New subdrain system (to connect to track perimeter system)
- Dynamic aggregate base
- Concrete turf anchor
- Synthetic turf
- Goal Posts and Soccer Goals

Home Grandstands & Pressbox

- Demolish wood composite seat and foot planks
- Install new aluminum seat and foot planks
- Replace or supply steps, handrails, and guard rails to meet code
- Remove and replace asphalt under grandstands

Scoreboard

- Evaluate steel supports for larger board
- Replace incandescent lighted scoreboard with LED scoreboard
- Explore the feasibility for a complete video board, scoreboard
- Explore the feasibility to have a video panel incorporated into the LED scoreboard

Stadium Lighting

- Remove salvage and replace lighting fixtures on new metal light poles

Stadium Misc

- Blend grade off track edge
- Add asphalt or concrete in areas that can minimize maintenance

Baseball/Softball Fields

- Field fence work to include:
 - Dugout to dugout outfield fencing
 - foul poles
 - batting cages
 - safety cap system
- Improve outfield drainage
- Aeration and overseeding of lawns
- Add section of fence west of baseball along drive to enclose ballfields

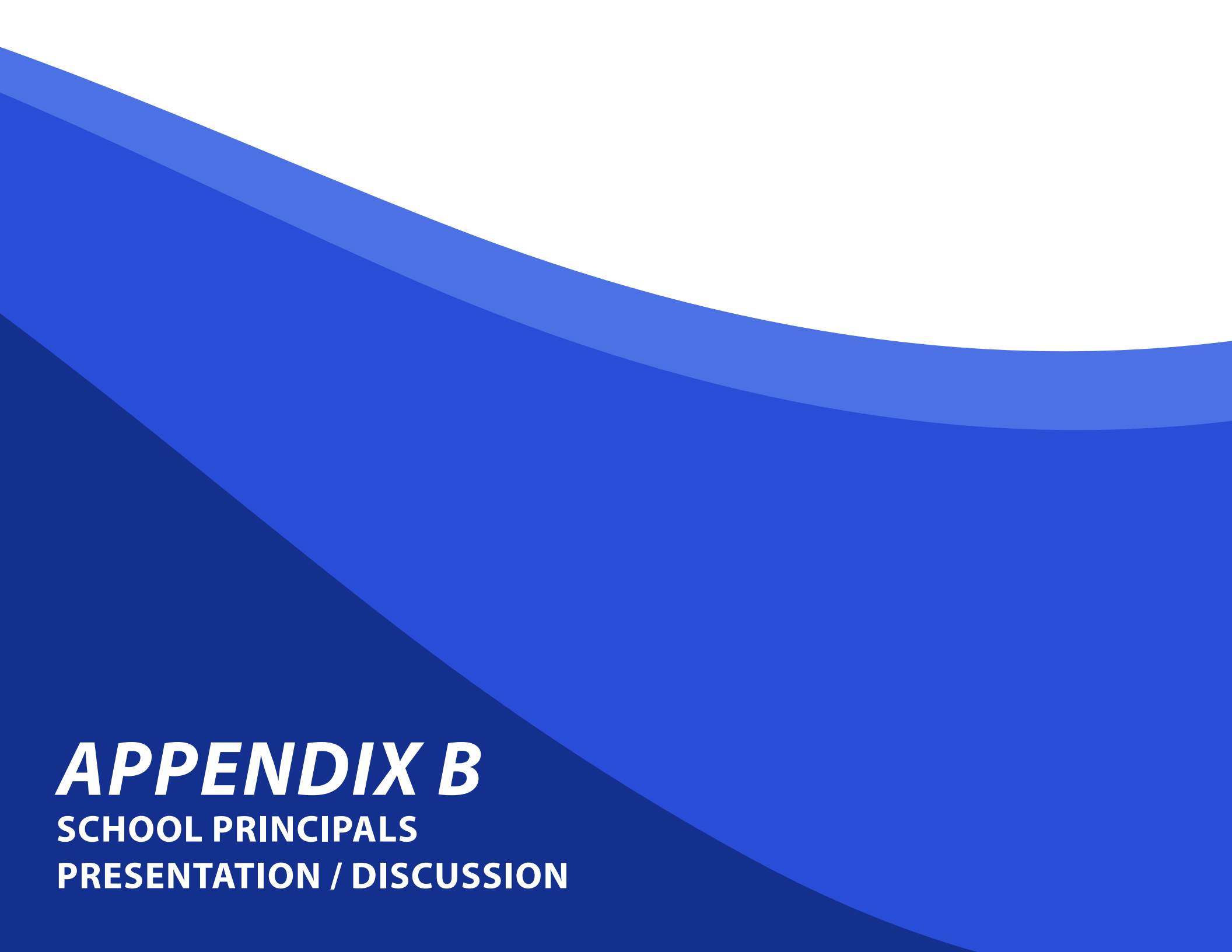


Athletic Facility Planning ■ Site Planning ■ Consulting ■ Landscape Architecture



Athletic Facility Planning ■ Site Planning ■ Consulting ■ Landscape Architecture



The background features a white upper section and a blue lower section. The blue section is divided into two shades: a lighter blue on top and a darker blue on the bottom. The boundary between the white and blue sections is a smooth, upward-curving line. The text is positioned in the bottom-left corner of the darker blue area.

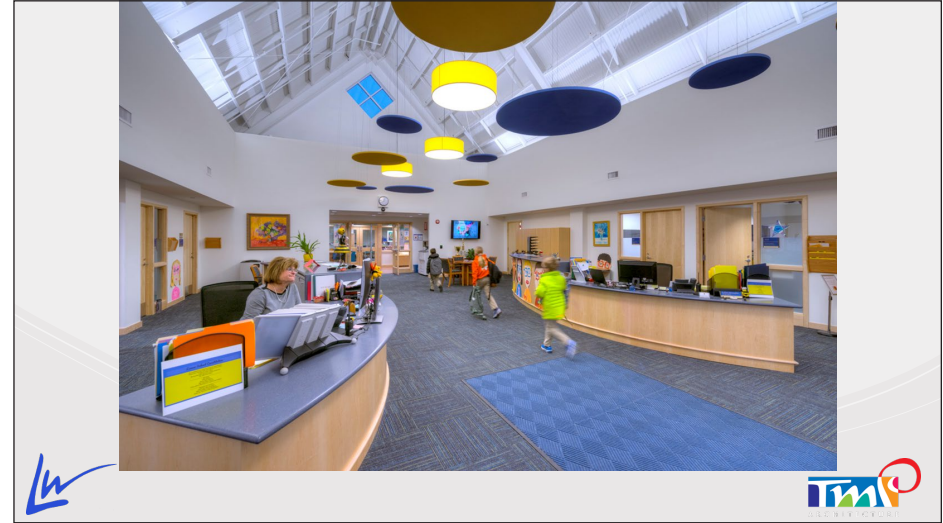
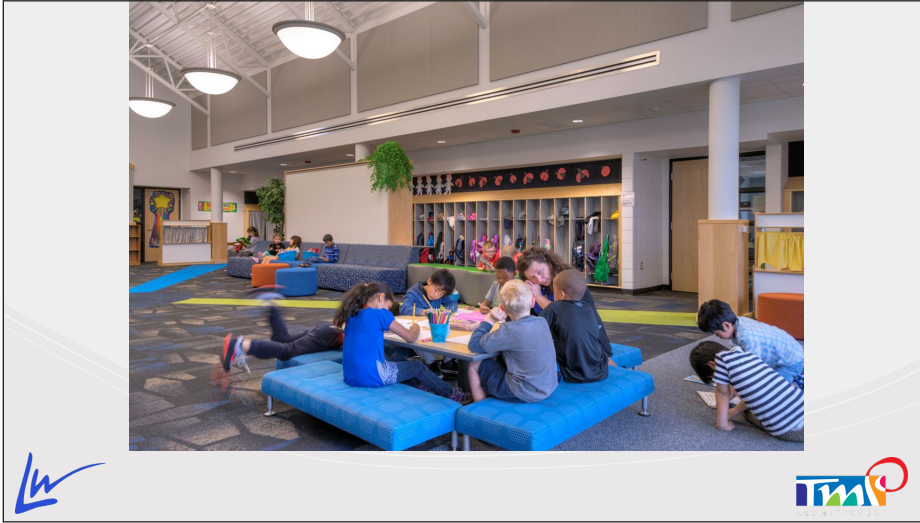
APPENDIX B
SCHOOL PRINCIPALS
PRESENTATION / DISCUSSION

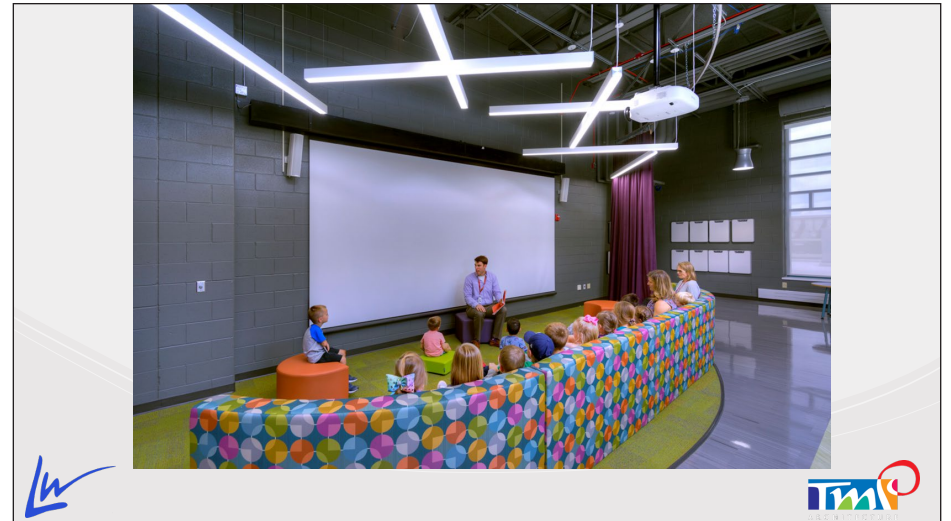
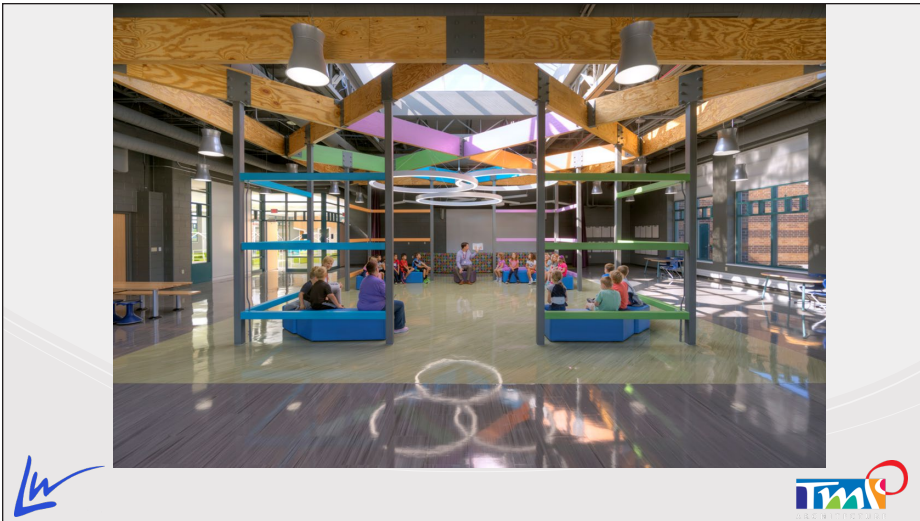
School Principals Presentation/ Discussion October 2021

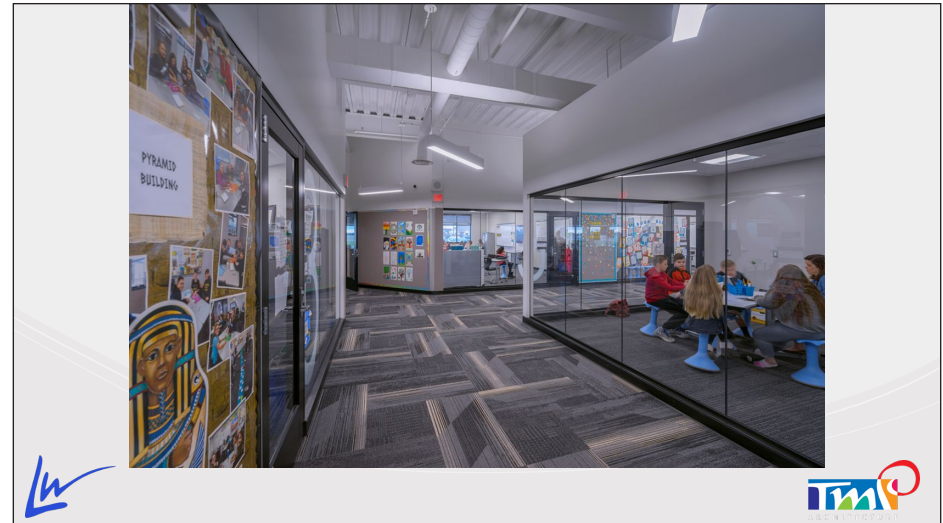
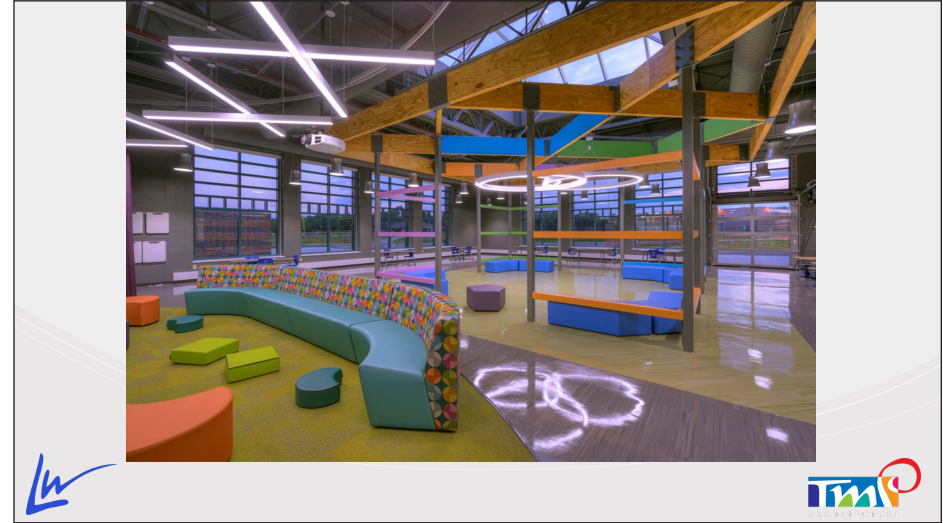
Spaces for

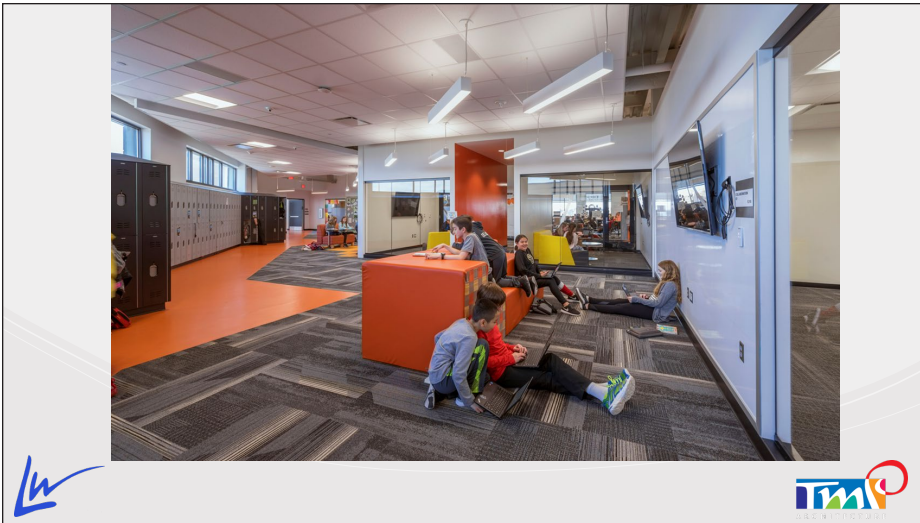
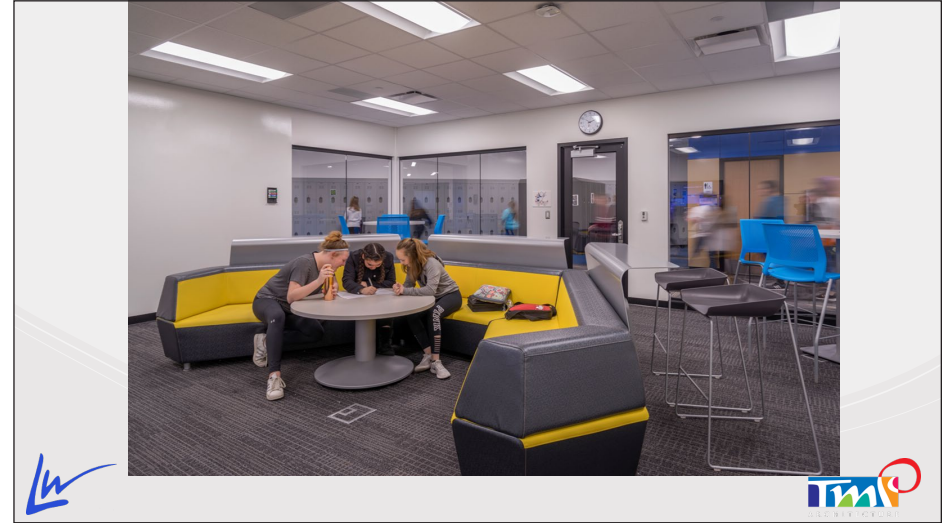
- Collaboration
- Team-work
- Hands-on
- Multi-purpose
- Activity-room

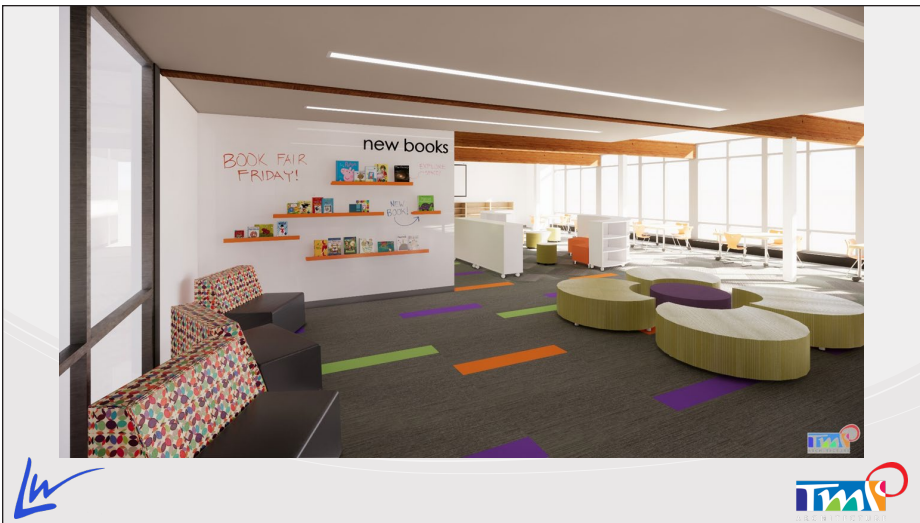
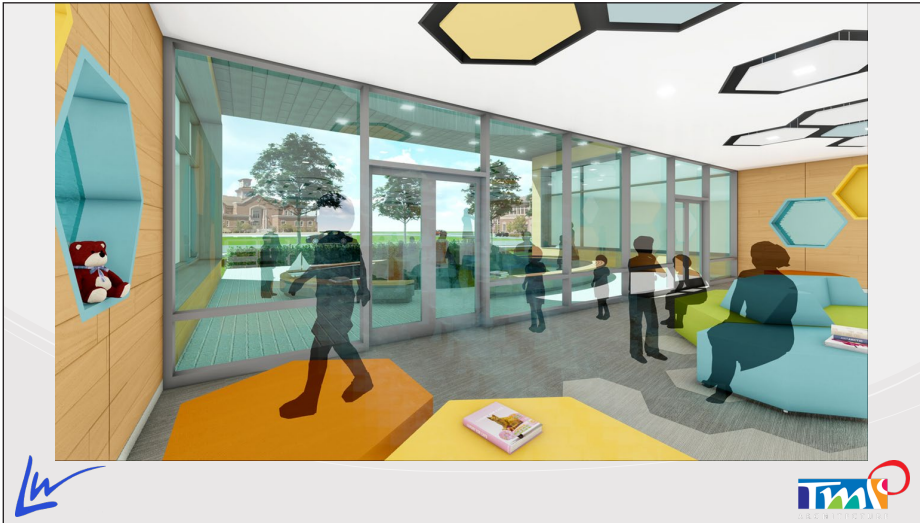


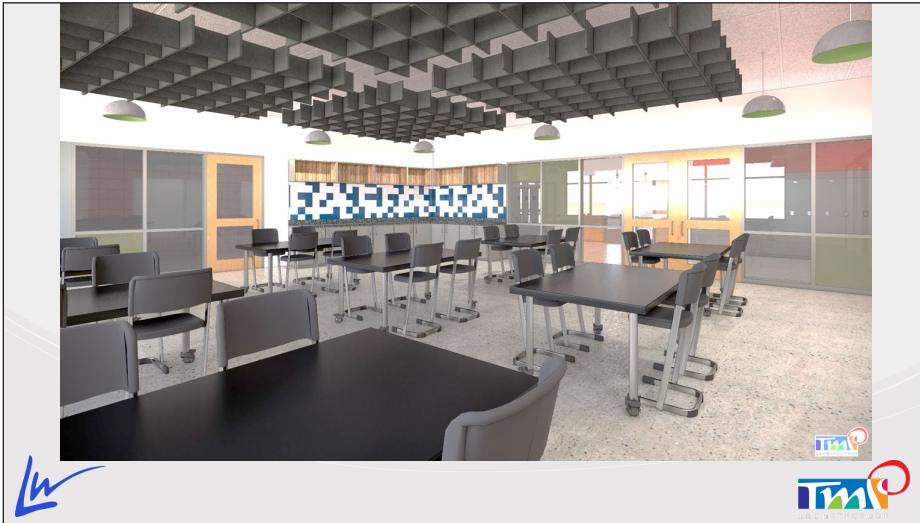












Opportunities for creating spaces for

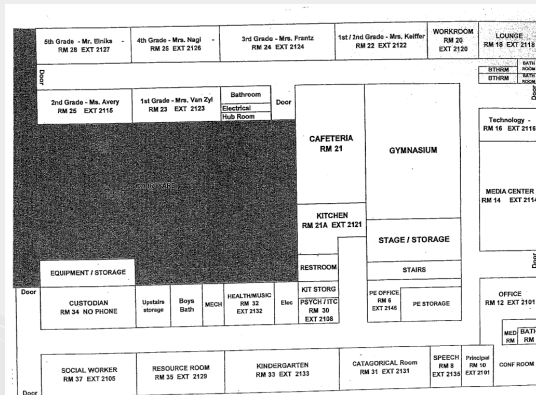
- Collaboration
- Team-work
- Hands-on
- Multi-purpose
- Activity-room



LAKESWOOD PUBLIC SCHOOLS



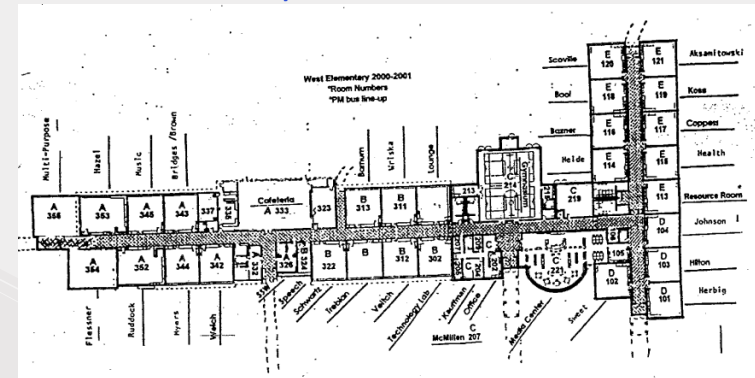
Early Childhood Center



LAKESWOOD PUBLIC SCHOOLS



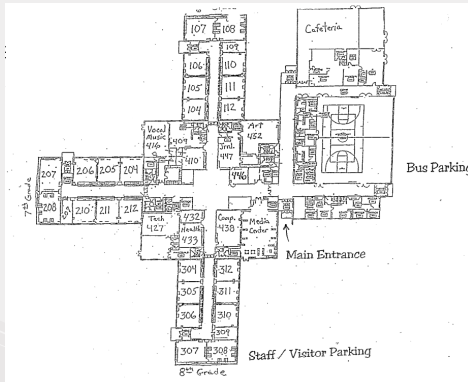
Lakewood Elementary School



LAKESWOOD PUBLIC SCHOOLS



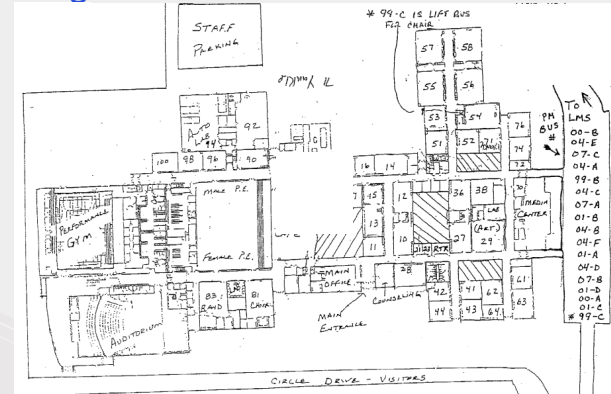
Lakewood Middle School



 LAKEWOOD PUBLIC SCHOOLS



Lakewood High School



 LAKEWOOD PUBLIC SCHOOLS



THANK YOU

 LAKEWOOD PUBLIC SCHOOLS



APPENDIX C


BOARD OF EDUCATION

PRESENTATION #1

LAKEWOOD PUBLIC SCHOOLS


2022 Bond Program Board of Education Presentation

November 22, 2021




Team Introductions

TMP Architecture




EDUARDO BLANC,
INTL. ASSOC. AIA
Principal-in-Charge/
Project Designer


GRANGER




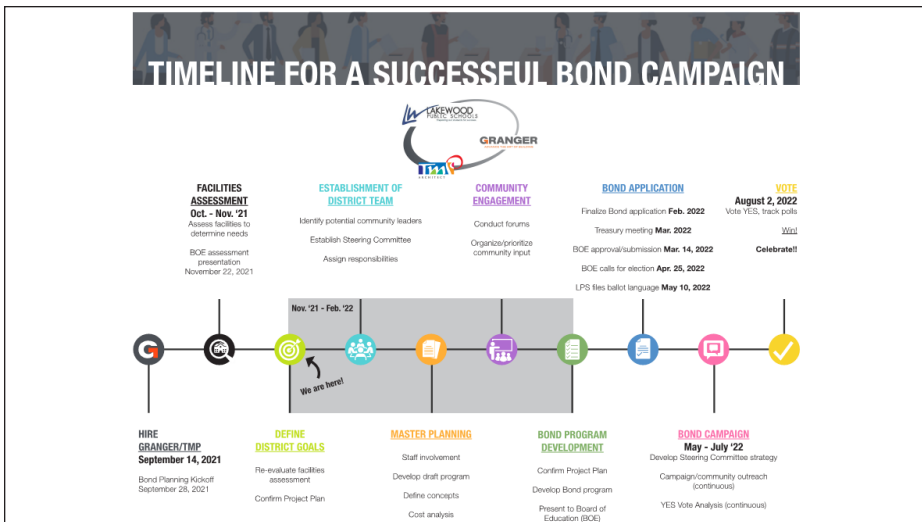
FRED J. GRUNERT,
AIA, NCARB, GGP
Project Manager



Jeff Tuley
Project Director




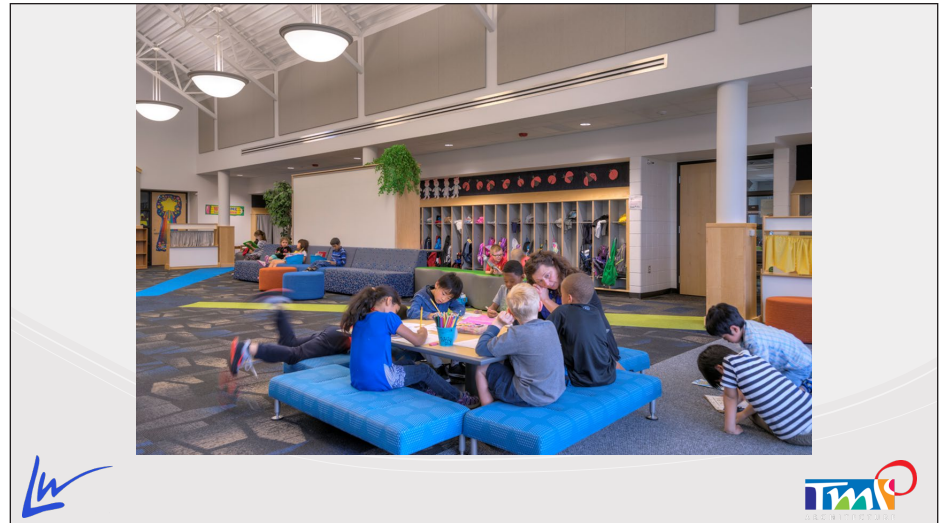
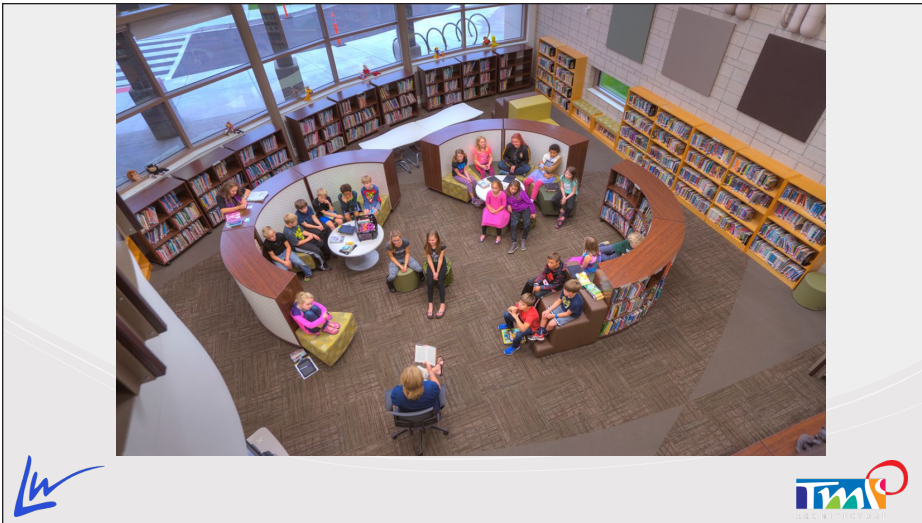
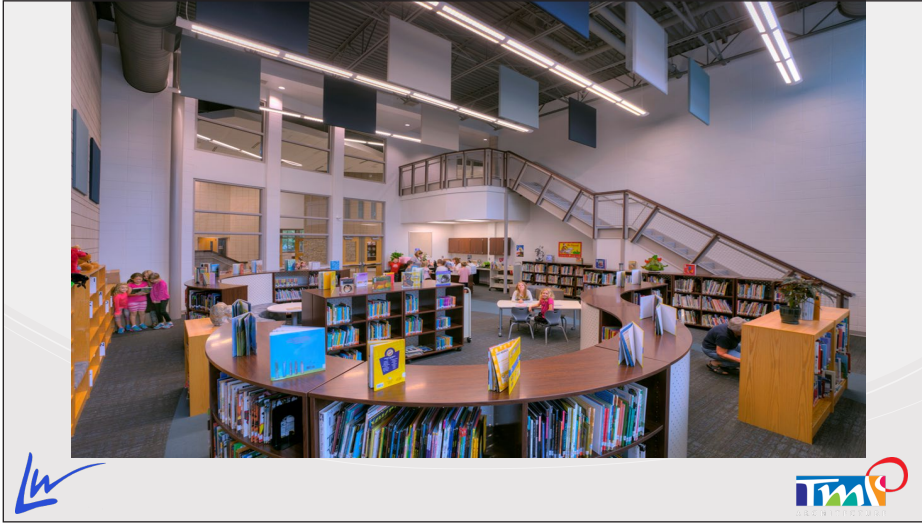
Amanda Goodspeed
Bond/Campaign Support

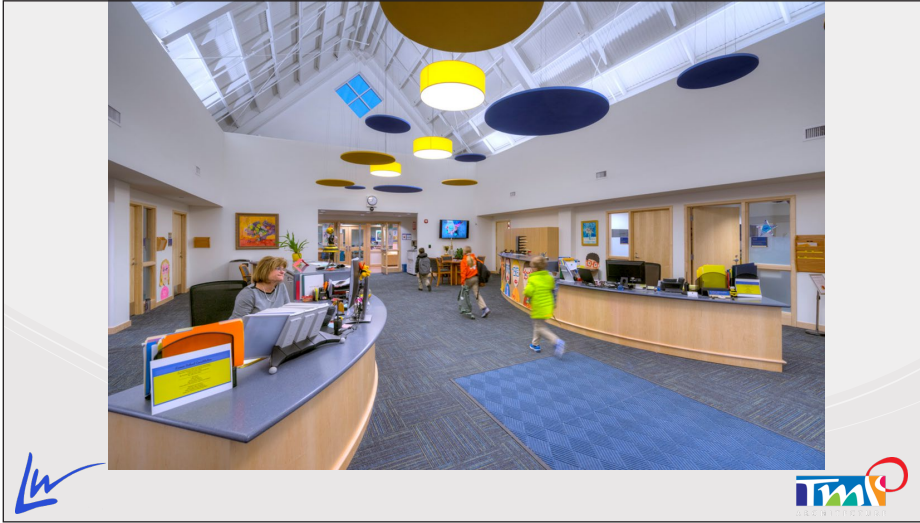



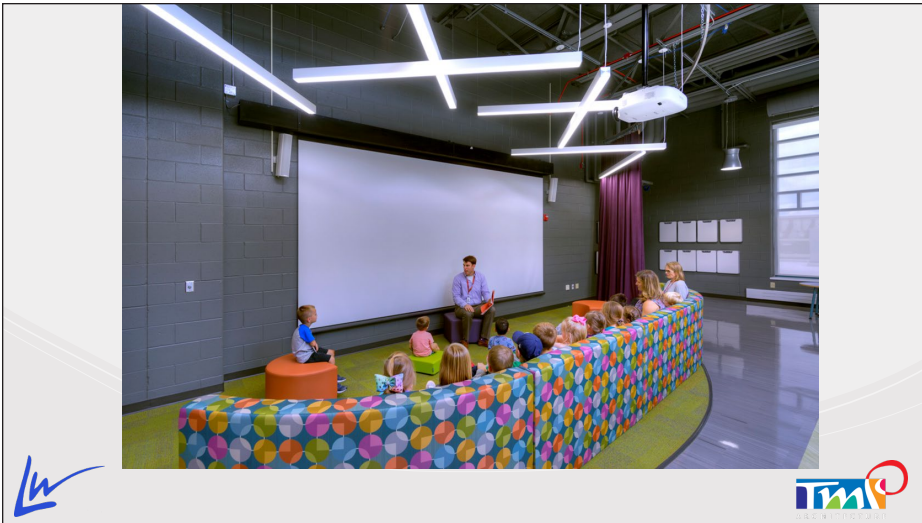
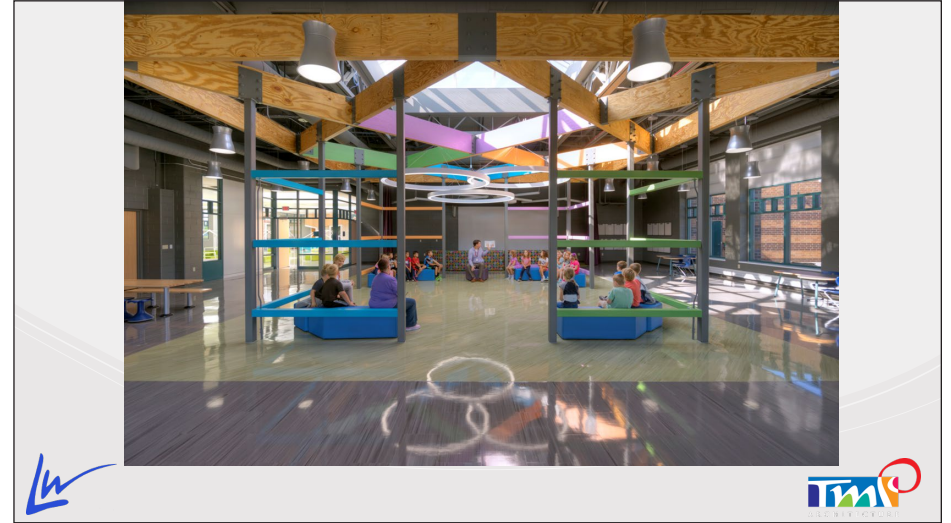
Existing Underutilized Spaces or Spaces that need Renovation

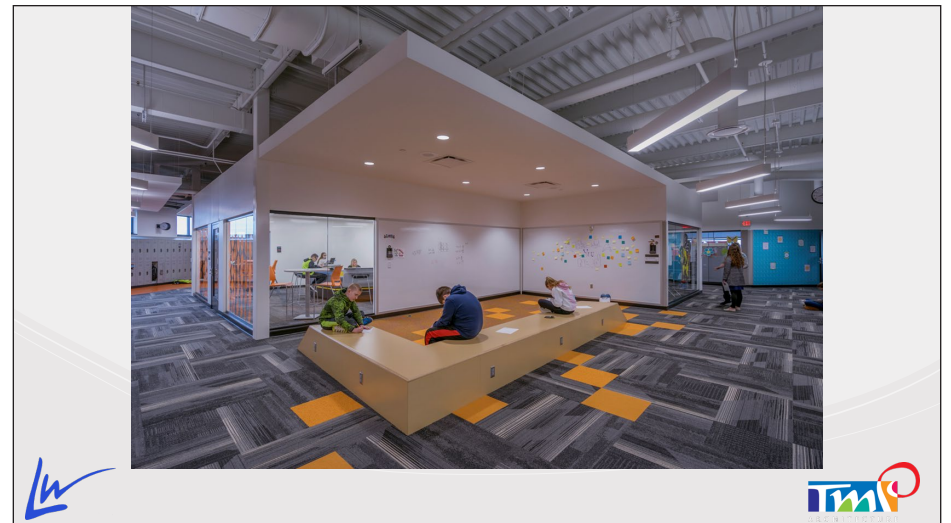
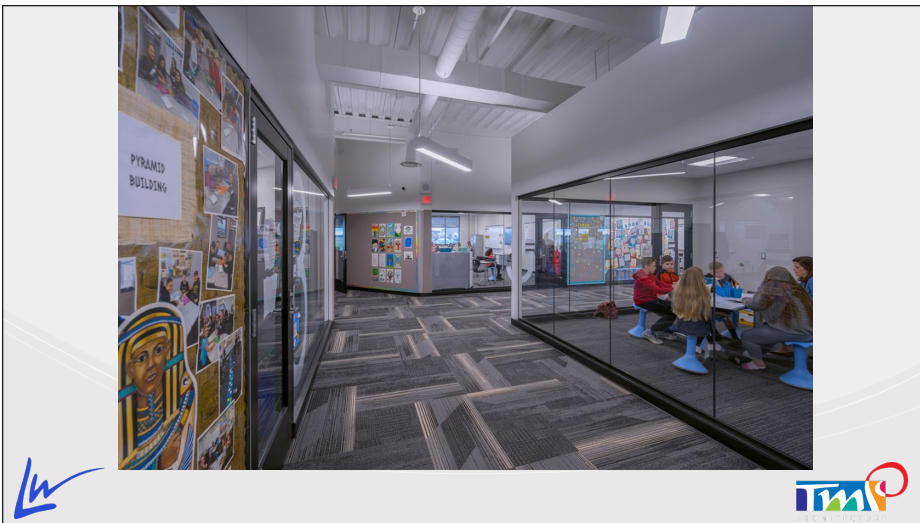
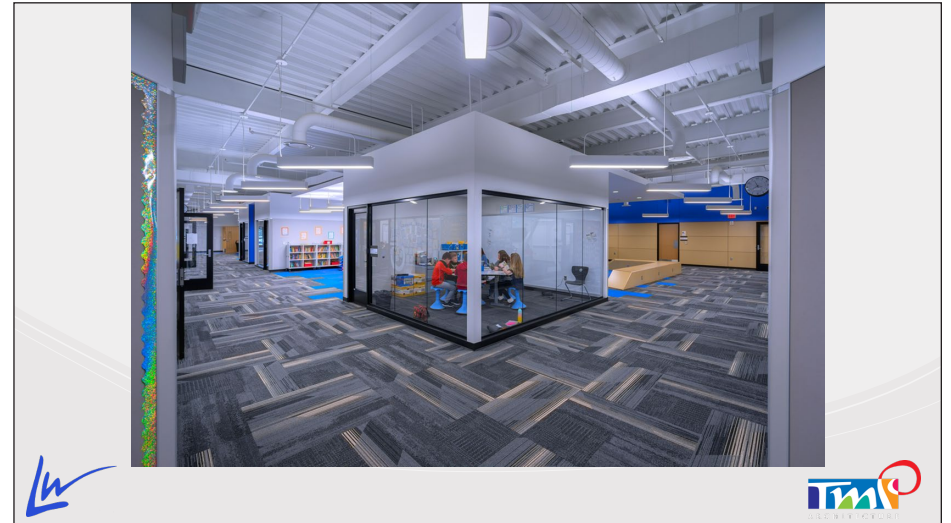
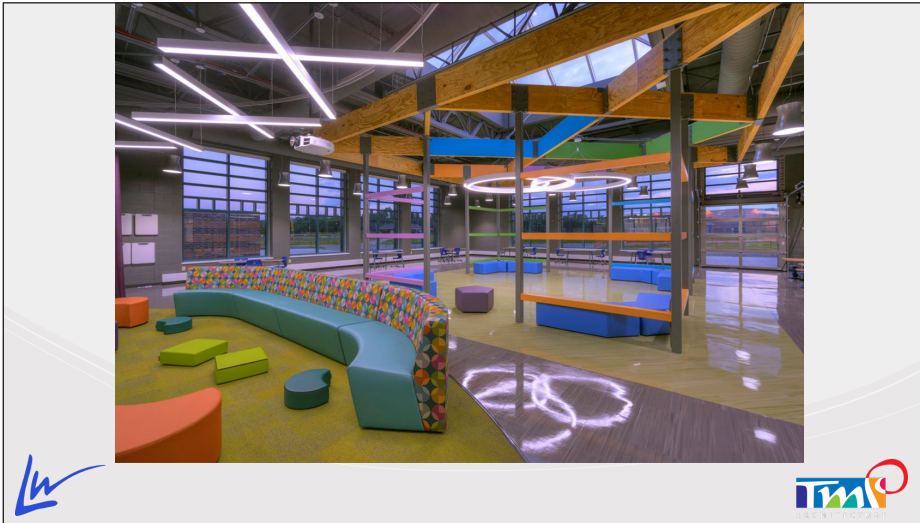
- Safe & Secure Entry
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- Opportunities for Creating Spaces for:
 - Collaboration
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 - Activity-room

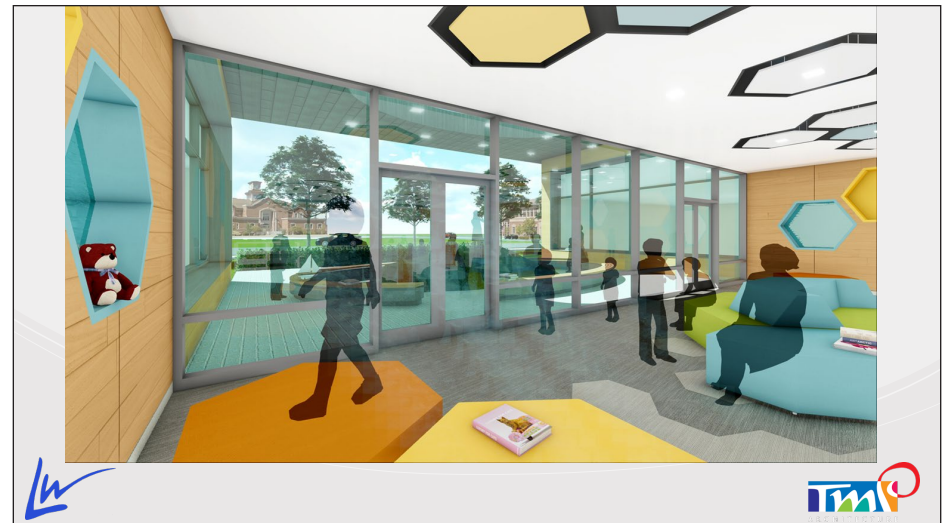
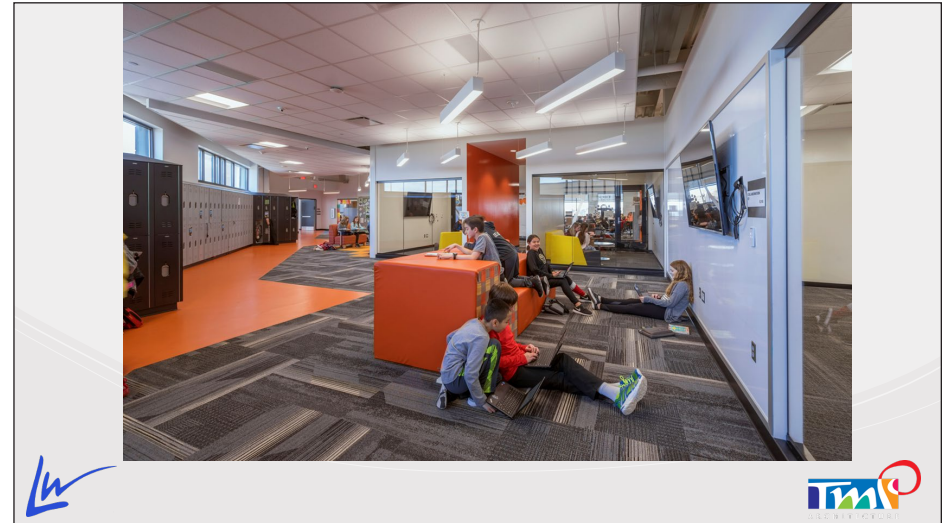
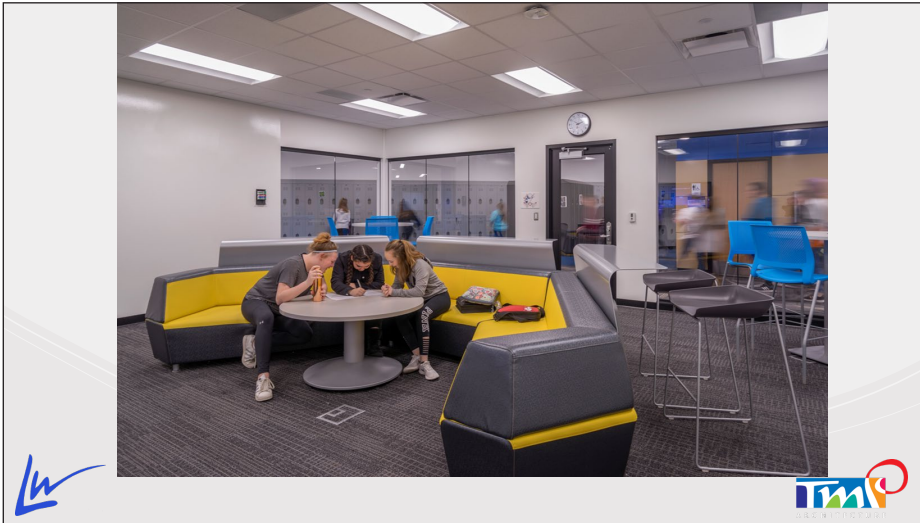


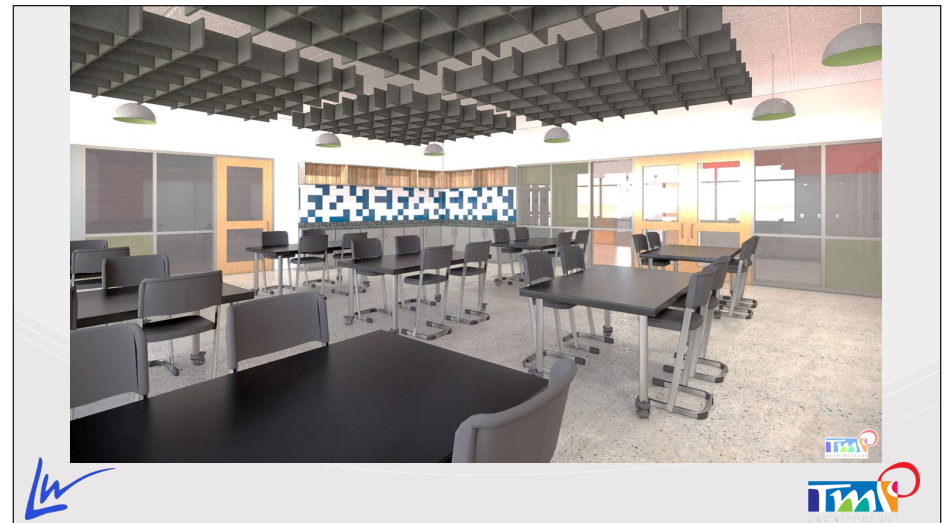
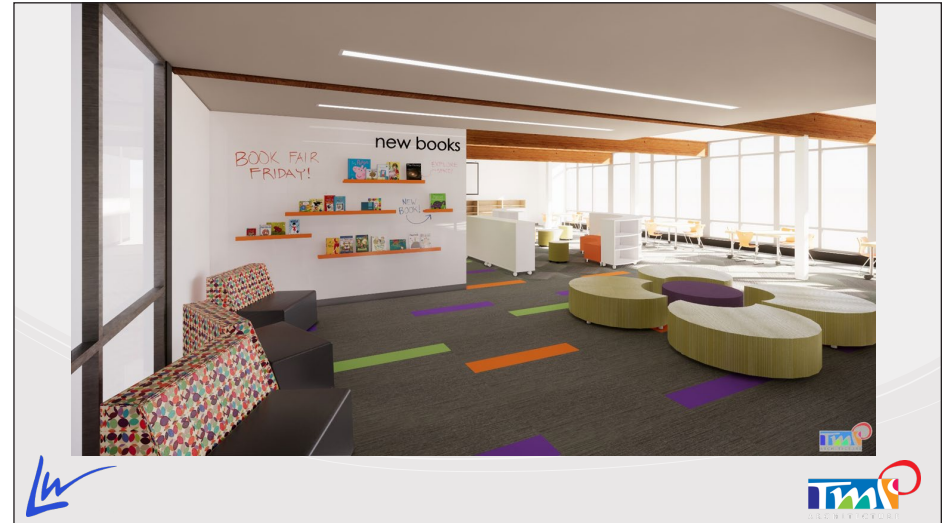


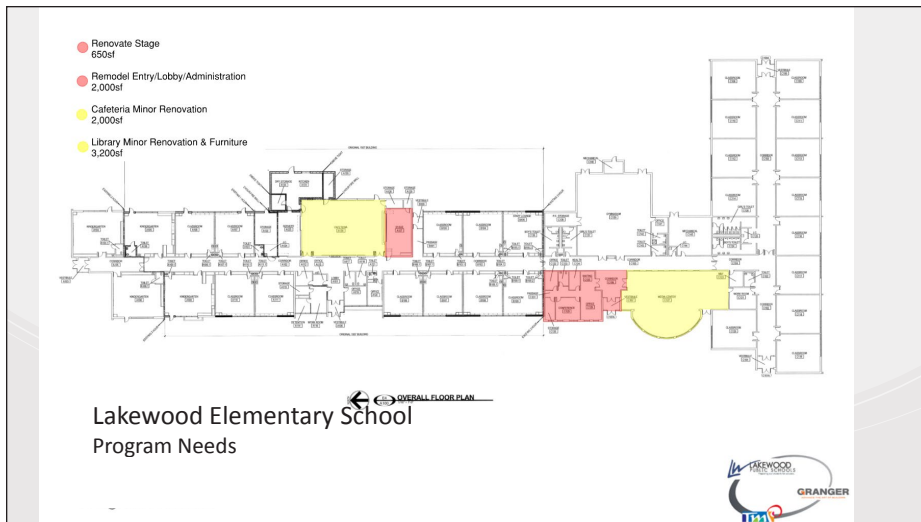
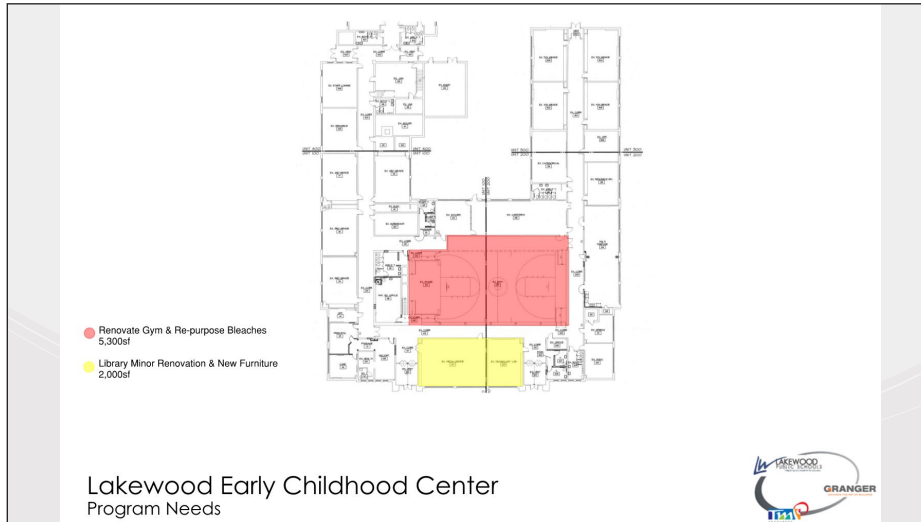


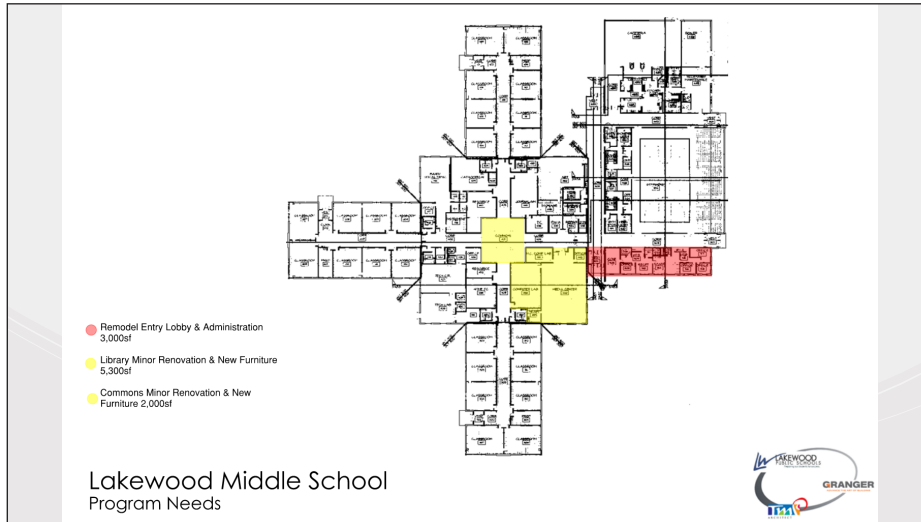








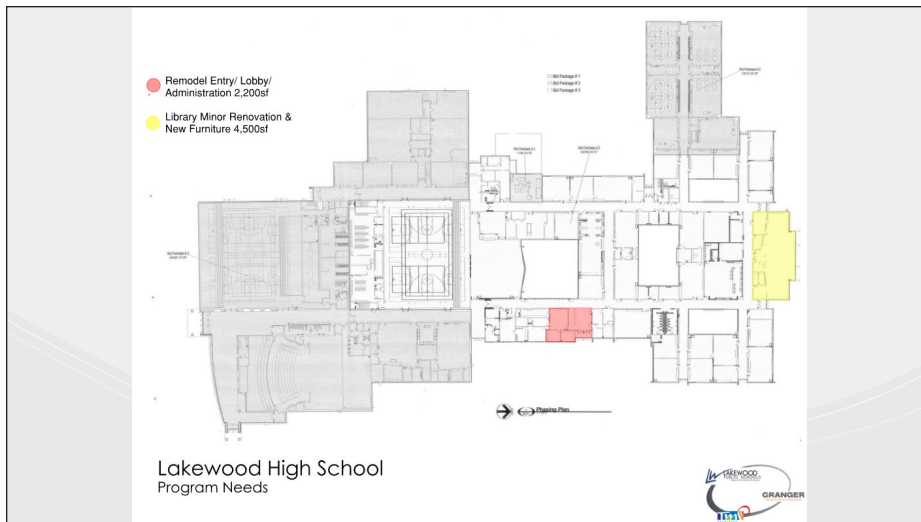




Potential Middle School Scope of Work

- a. Remodel Entry/ Lobby/ Administration
 $3,000\text{sf} \times \$200 = \$600,000$
 Furniture= \$50,000
- a. Library Minor Renovation/ New Furniture
 $5,300\text{sf} \times \$100 = \$530,000$
 Furniture= \$100,000
- a. Commons Minor Renovation/ New Furniture
 $2,000\text{sf} \times \$100 = \$200,000$
 Furniture= \$100,000

Total \$1,580,000



Potential High School Scope of Work

- a. Remodel Entry/ Lobby/ Administration
 $2,200\text{sf} \times \$200 = \$440,000$
 Furniture= \$30,000
- b. Library Minor Renovation/ New Furniture
 $4,500\text{sf} \times \$100 = \$450,000$
 Furniture= \$100,000

Total \$1,020,000

Potential Scope of Work, District Wide

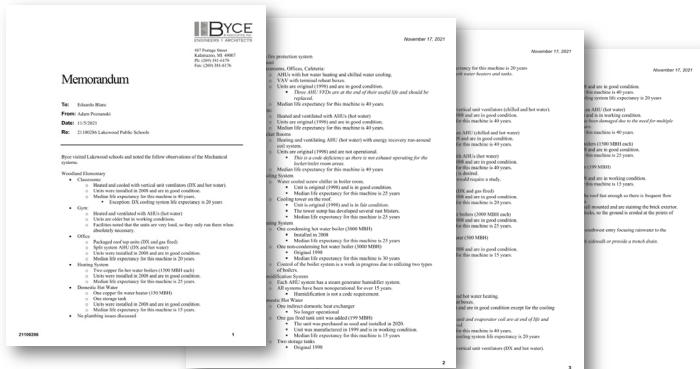
- ✓ Replace roofs at all schools
- ✓ Improve parking lots and drives at all schools
- ✓ All buildings have bus/drop-off separation
- ✓ Construction of new bus garage
- ✓ Stadium artificial turf
- ✓ Stadium bleachers, fencing, sound system and new scoreboard
- ✓ Tennis court resurfacing and underdrainage
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- ✓ Identify options for hands-on tech experience: automotive, carpentry/wood shop, outdoor recreation
- ✓ Permanent outdoor band instruction tower. Remove scaffolding tower



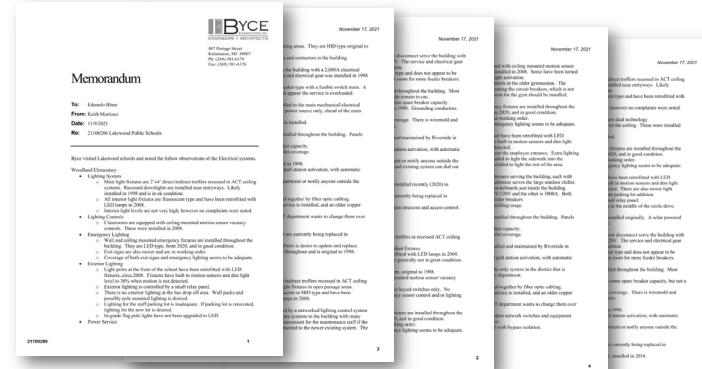
Architectural Facility Assessment



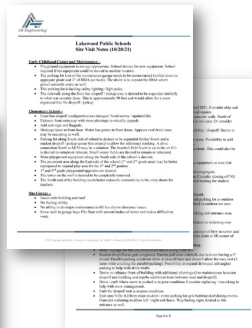
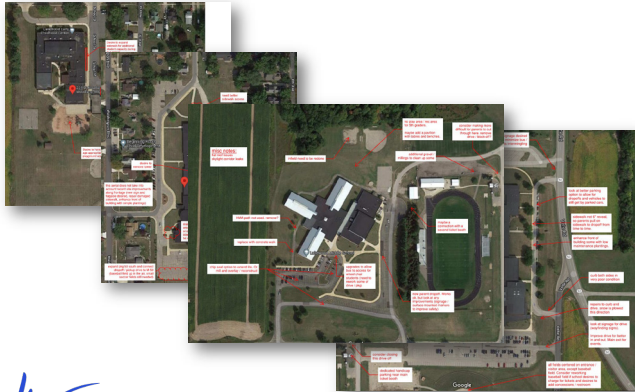
Mechanical & Plumbing Assessment



Electrical Assessment



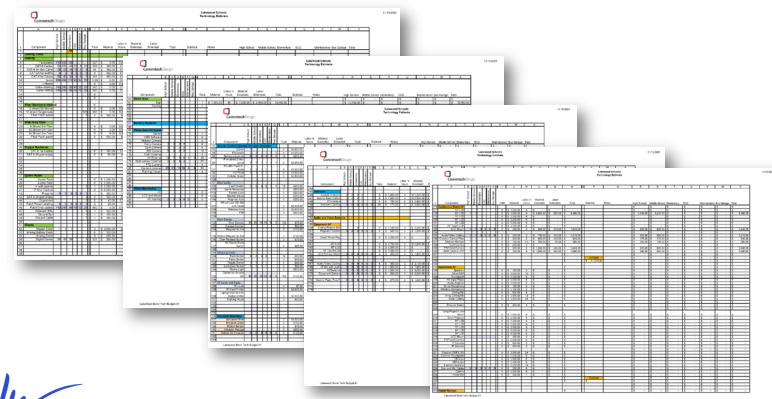
Civil Engineering Assessment



 LAKEWOOD PUBLIC SCHOOLS



Technology Assessment



 LAKEWOOD PUBLIC SCHOOLS



Athletic Facilities Assessment



 LAKEWOOD PUBLIC SCHOOLS



NEXT STEPS

- Prioritize Assessment Options
- Present Cost Estimates
- Meet with Steering Committee to evaluate budget and scope of work

 LAKEWOOD PUBLIC SCHOOLS




THANK YOU



APPENDIX D


PROJECT STEERING

COMMITTEE MEETING #1



**2022 Bond Program
Steering Committee Work Session**

Wednesday, December 15, 2021



Team Introductions



Eduardo Blanc,
Int'l. Assoc. AIA
Principal-in-Charge/
Project Designer

Fred J. Grunert,
AIA, NCARB, GGP
Project Manager


Jeff Tuley
Project Director

Amanda Goodspeed
Bond/Campaign Support

Cory Maurer
Pre-Con/Estimating



Steering Committee Introductions




Programming Process

Success Looks Like:

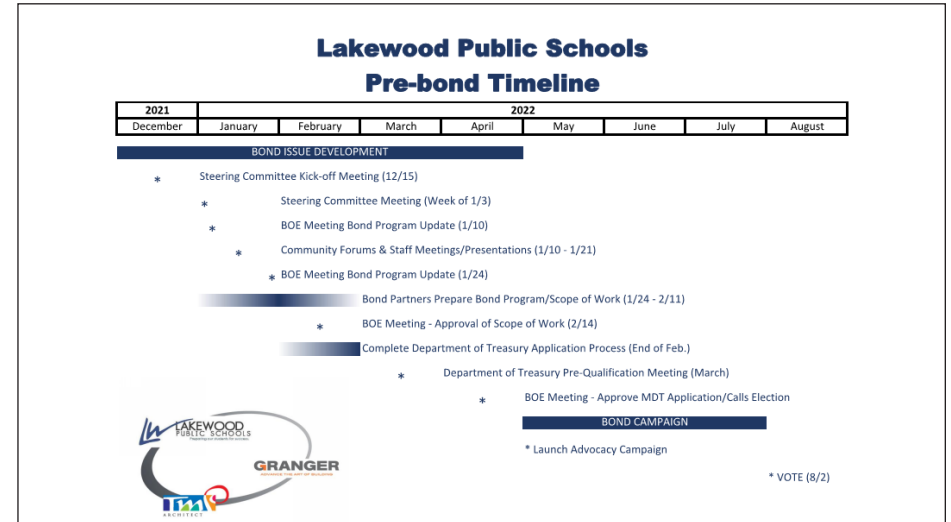
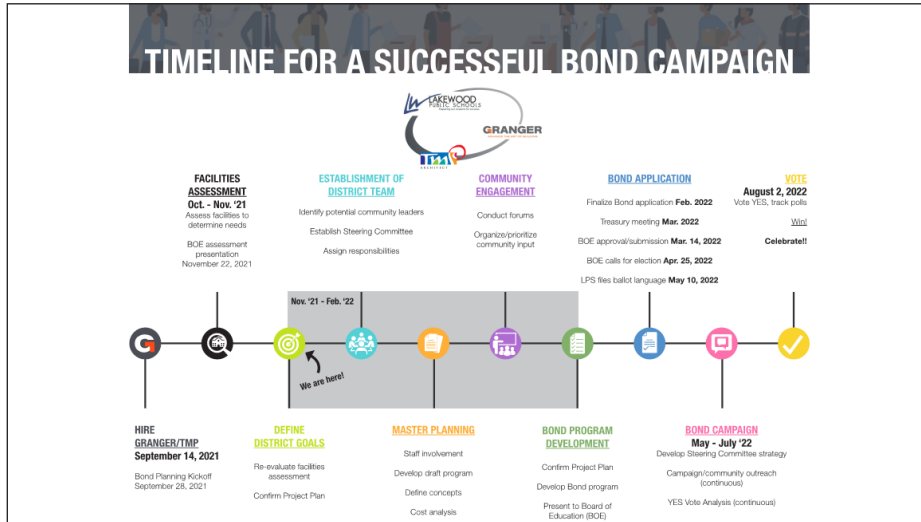
- Clearly defined expectations
- Roles and responsibilities
- Communication
- Trust

Goals (To be further defined)

- Review General Schedule
- Review Program Assessment
- Review Potential Scope of Work
- Prioritize



Success!

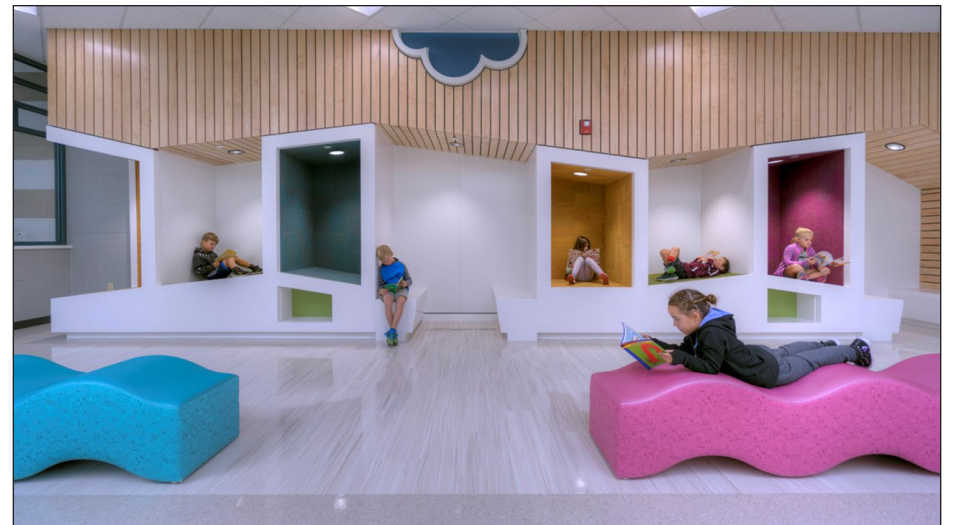


Program Assessment

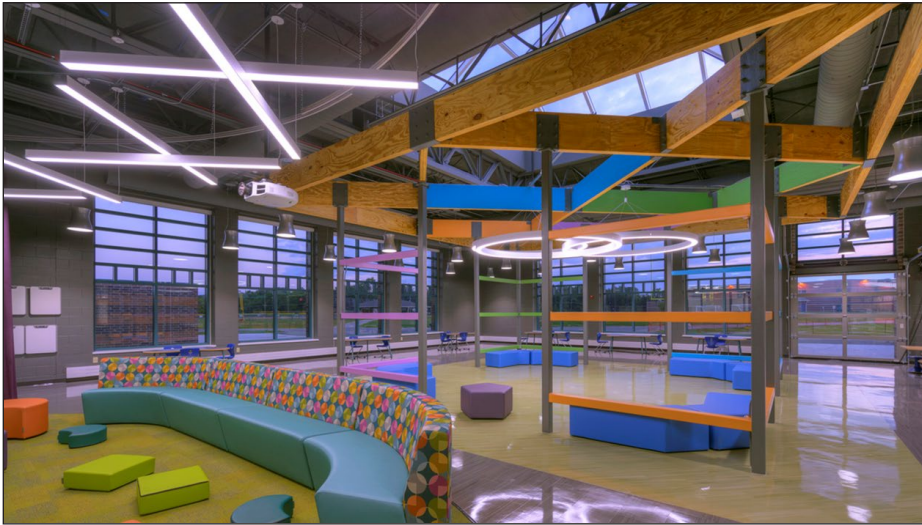
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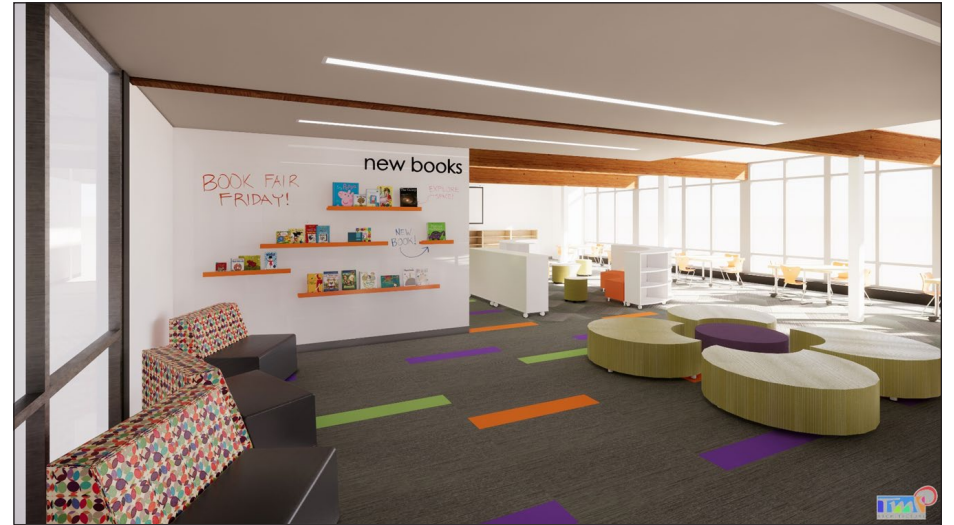


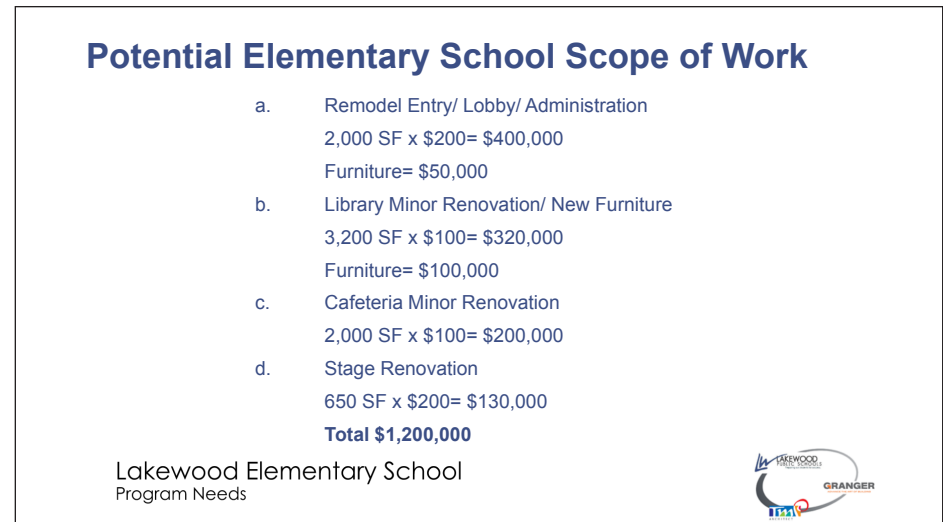
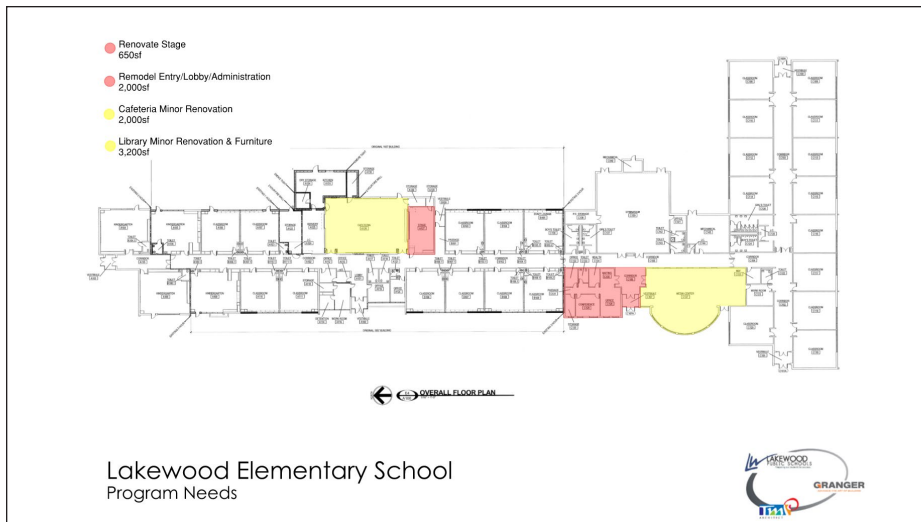
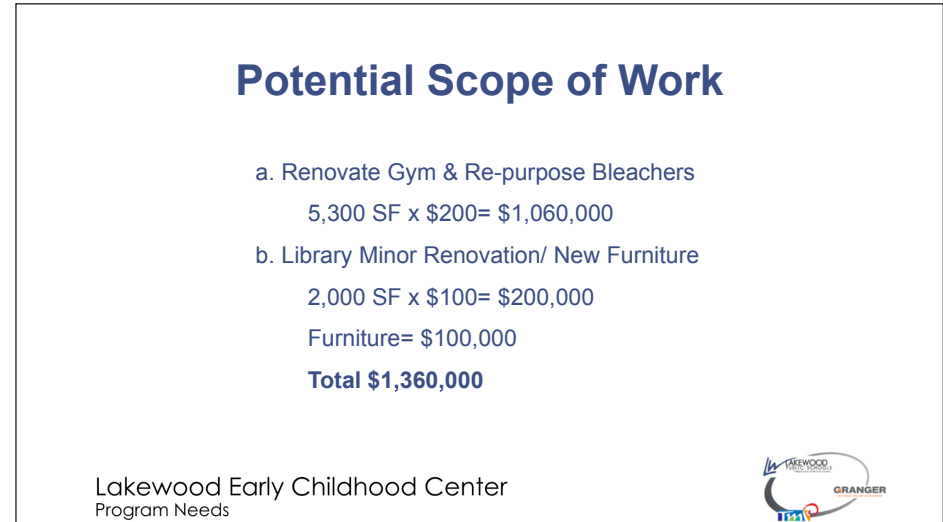
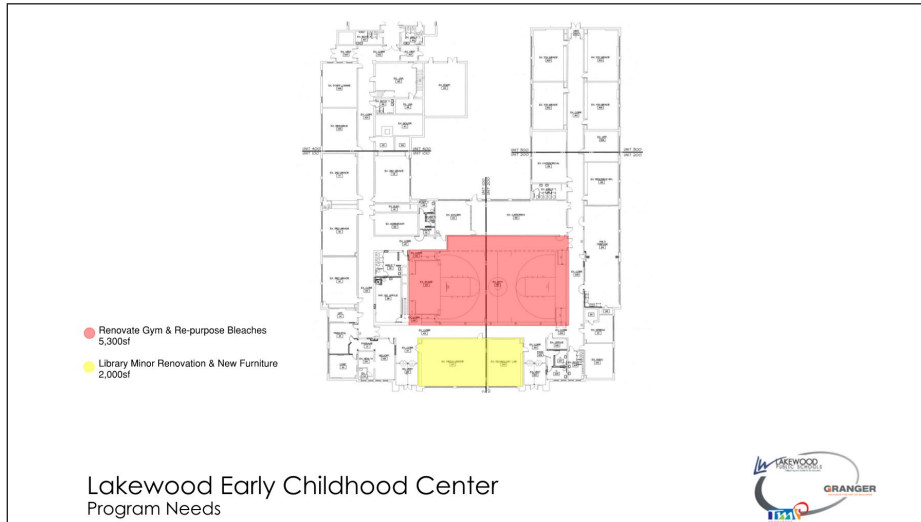


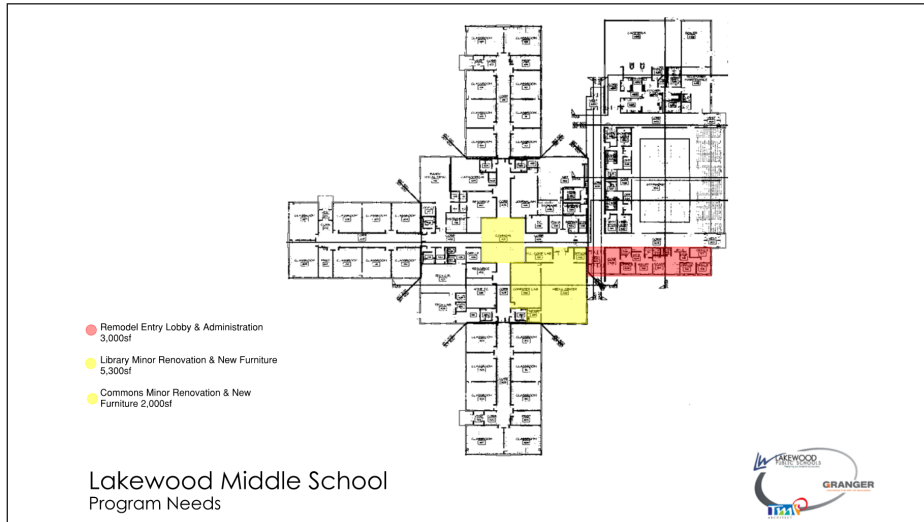








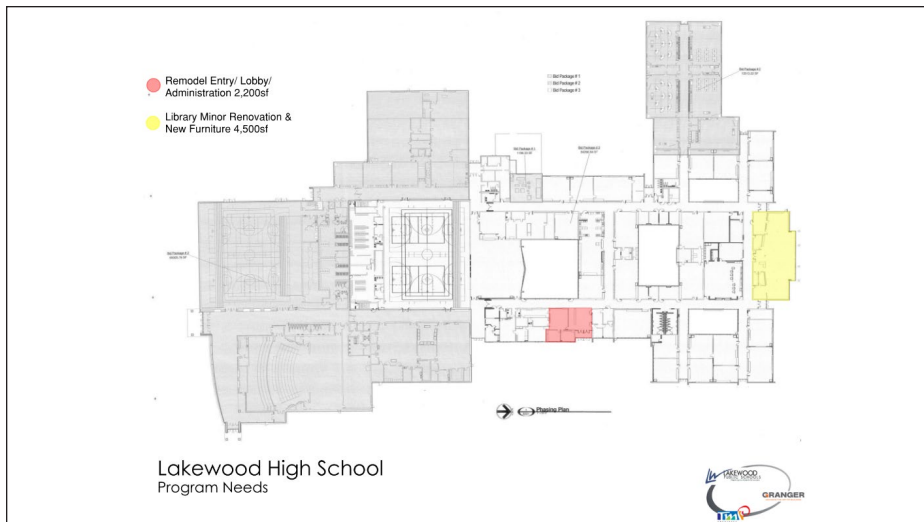




Potential Middle School Scope of Work

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- Total \$1,580,000**

Lakewood Middle School
Program Needs



Potential High School Scope of Work


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Lakewood High School
Program Needs



Facilities Assessment

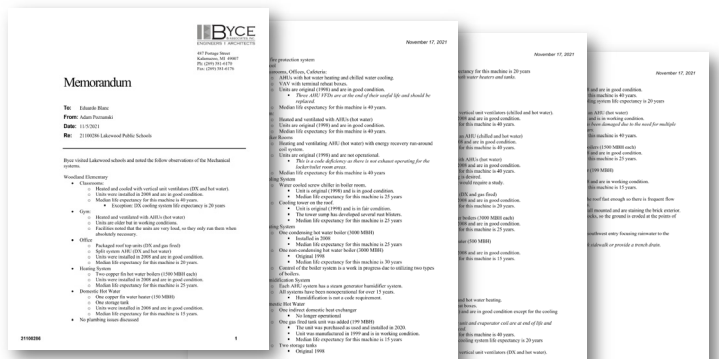



- ## Potential Scope of Work, District-Wide
- ✓ Replace roofs at all schools
 - ✓ Improve parking lots and drives at all schools
 - ✓ All buildings have bus/drop-off separation
 - ✓ Construction of new bus garage
 - ✓ Stadium artificial turf
 - ✓ Stadium bleachers, fencing, sound system and new scoreboard
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- 

Architectural Facility Assessment



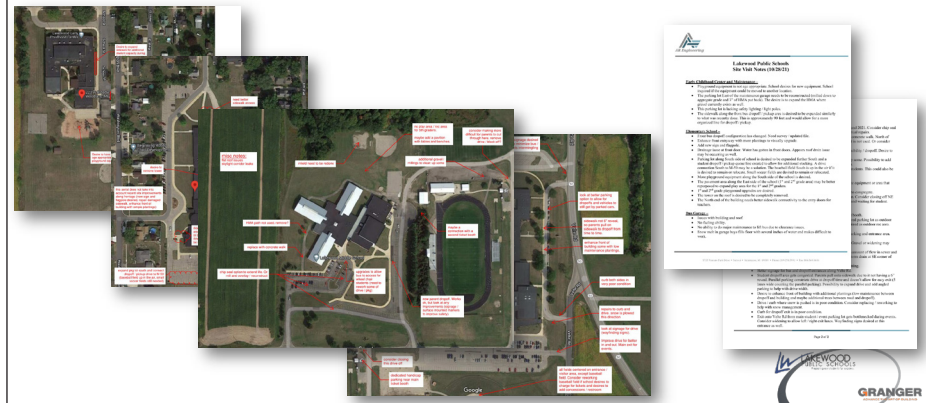

Mechanical & Plumbing Assessment

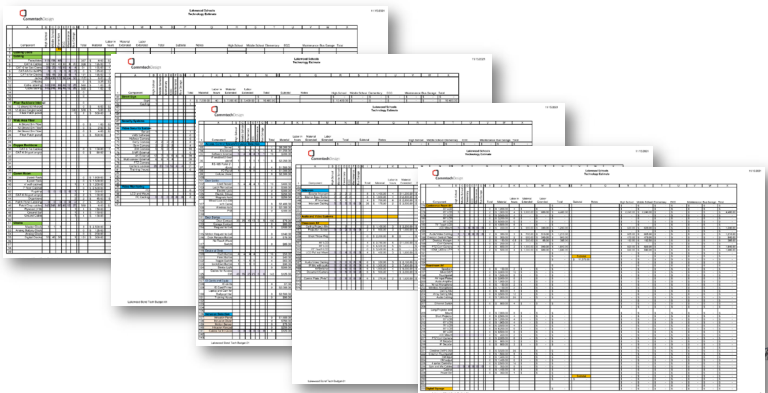
Electrical Assessment



Civil Engineering Assessment



Technology Assessment



Athletic Facilities Assessment





Bond Theme “Big Ideas”

- ❖ Safety and Security
- ❖ Competitive Advantage
- ❖ Good Stewards of the Public’s Money

**Review Potential
Scope of Work and Prioritize**



Next Steps

- “Big Ideas”
- Review Scope Prioritization
- Granger to share polling information via SharePoint site
- Granger to generate cost estimates based on prioritization
- Second meeting with Steering Committee to evaluate budget and scope of work (week of January 3rd)



Thank You!



December 15, 2021

Lakewood Public Schools - 2022 Bond Program
Potential Scope of Work



Legend:
Safety & Security: RED
Competitive Advantage: GREEN
Good Stewards of the Communities Money: YELLOW

Priority			Building/Description
High (1)	Medium (2)	Low (3)	High School
			1. MEP
			a. Floor drain cleanout outside of cafeteria inefficient
			b. Original Gym: Lighting can only be controlled from electrical panel because there are no light switches. Panel and conduits are concealed in block wall so either surface boxes and conduit will be needed or wall cutting and patching.
			c. Would like cooling added to gym. Chiller has capacity to serve gym
			d. Auditorium – built in 2009 – will need further discussion with musical director
			i. Lighting and equipment may be an issue and need to be upgraded
			ii. General lighting above seating is existing industrial type fixture with LED lamps.
			iii. Pendant can light fixtures above seating and stage are original Halogen.
			iv. Sound equipment is old.
			e. Boilers are from 2008. Would like new. Existing are Thermal Solutions. Heat exchanger has been replaced for one boiler. Boilers did not have water softener until 2009 or 2010
			f. Not all rooms have A/C. Options to add?
			g. Electrical distribution system is in good condition. Some panel updates have been made and feeder wire has been replaced.
			2. Technology
			a. New Gym: PA system inefficient – muffled, too low
			b. New Gym: Poor WiFi coverage
			c. Auditorium: Sound equipment is old.
			d. Existing clocks are analog, and they have periodic issues with them, such as wrong time. IT director asked if clocks are even required. If not, can they be removed?
			3. Site Work
			a. Parking lots/drives – mill & resurface or replace. Re-purpose millings for gravel/dirt lots
			b. Additional lighting needed at north school entry/bus drop-off lot – hard to see; identification signage needed?
			c. Replacement of electronic sign. Software operating the sign is no longer supported
			4. Safety & Security
			a. Current passage to 2nd floor weight room needs secure entry – would need to be infilled and double door added; currently there is drywall behind the tile
			b. Front offices – remodel – new finishes, new casework (?)
			c. New safe/secure main entrance.
			d. There is not a need for a substantial increase in Access Control locations, but the existing locations need updates or replacement. Existing system is "S2" ?
			e. Existing Fire alarm system is a horn system, and the HS is the only system that dials out to fire department. FACP is original.
			f. Would like local alarms on selected doors when left open. They have issues with people propping open doors that should remain locked.
			5. Athletics
			a. Considering replacement of existing grass football field converted to football/soccer turf field.
			b. Track needs to be replaced – currently ponding, been patched/repared, track surface worn to asphalt subbase. Fencing around track and field complex are original.
			c. Asphalt approach at football field spectator entrance is in bad condition.
			d. New fencing at baseball fields. Baseball/softball infields have ponding/drainage issues.
			e. Would like restrooms at baseball/softball fields.
			f. Would like windscreens at baseball/softball fields.
			g. There is no drive lighting along E Brown Rd. entrance which service athletic fields entrance.
			h. New home grandstand – currently steel structure base. Would this require the press box to be replaced?
			i. Tennis courts need to be resurfaced – ponding; note fiber manhole in one of the courts; no site lighting needed.
			j. Drainage to wildlife refuge
			k. Soccer field – relocate to stadium; current field may be potential site for future bus garage; drainage needs to be addressed it is believed that septic drain runs below soccer field.
			l. Several underground utilities (Sewer, power, fiber, gas) are located northwest of the high school, and east of the soccer field.
			m. New scoreboard at stadium – existing posts in good shape, only board needs to be replaced. District is interested in video display.
			n. Original gym: Bleachers are existing from 1964 – shows sign of wear, breaks/cracks. Would like new bleachers.
			6. General Topics
			a. Would like cafeteria to be more user friendly – add booths along window wall, high top tables
			b. Various locations in Acoustical Ceiling Tile in corridors where water/leaks were present; water stains, sagging tiles
			c. Bathrooms – remodel – new finishes, partitions (this is a need throughout the district)
			d. Elevator built in 2008 – no current needs identified
			e. Owner replaces CHW pumps periodically
			f. AHU's and RTU's are from 2008.
			g. Temperature controls have been updated by Grand Valley Automation.
			h. There are various roofing issues throughout HS.
			i. All projectors and controllers are being updated by the district.
			j. Projector boards are interactive.
			k. Replace carpet throughout
			l. Media center in good shape – consider new furniture, collaboration space.
			m. Roof Replacement

Priority			Building/Description
High (1)	Medium (2)	Low (3)	Middle School
			1. MEP
			a. Existing lighting controls inefficient in some corridors - Upgrade to sensor control to match other areas of the building. Classrooms appear to be occupancy controlled. Principle would prefer that no manual control needed when entering room. Possibly change to occupancy controls? However, lighting and controls have recently been updated.
			b. Would like exterior lighting controls to be updated. Existing are old time clocks.
			c. New chiller & tower needed. Existing is York.
			d. One existing boiler has been replaced and is Fulton. One existing boiler needs to be replaced.
			e. Half of the school building is pneumatic control. Would like pneumatic updated to new BMS.
			f. Some 2-way valves on RTU's have been replaced.
			g. Heat exchanger plate leaks. New CHW pumps and VFD's needed.
			h. There are 4 older VFD's for RTU's. Installed 1998.
			i. One RTU has updated controls
			2. Technology
			a. Gym sound system doesn't operate well.
			b. Network cabling is 1998-1999 – only school in district that has not received cabling upgrade
			c. There is only (1) network drop per classroom. Would like additional network drops and updated network cabling throughout.
			3. Site Work
			a. New playground for 5th graders requested
			b. Exterior – new benches, picnic tables, possible outdoor learning space with covering
			c. Exterior:
			i. Little league infield needs to be redone
			ii. Parking lot has recently been spot patched and resealed–mill & resurface or complete repave
			iii. Current bus loop at front of building is inefficient and has ADA issue – lane needs to be widened and/or have separate lane added
			4. Safety & Security
			a. Main entry – needs secure entrance. Possibly existing conference room to be converted into secure entrance/welcome center?
			b. Inefficient office locations front office to other offices – combine into one space if possible; upgrade finishes
			5. Athletics
			a. Gym masonry is cracked horizontally at the adjacent roof line – cause unknown at this time, been present for last 10 yrs or so but does not seem to be becoming larger/ more of an issue
			b. Gym bleachers are in good condition but have some mechanical issues. Possible motors or operable mechanisms issues.
			6. General Topics
			a. Built in 1998
			b. Various locations in ACT ceiling where water/leaks were present at wall/ceiling perimeters, water stains down walls and on ACT
			c. Existing fiberglass/skylight roofing in main entry & corridor leaks a lot and has been patched & repaired many times – this roof is original to the building and has visible damage from sun exposure
			d. Roof work is need on flat roofs; no needs currently identified for vaulted ceiling/roof
			e. Bathrooms – upgrade finishes, new partitions
			f. Carpet to be replaced throughout building.
			g. Exterior gutters in visibility poor condition – needs to be replaced
			h. Major big-ticket items identified in site visit to be addressed are the roof and parking lots
			Elementary School
			1. MEP
			a. Storm cleanout in interior wall backs up and overflows into hallway – appears to not be sized properly
			b. Power distribution updates in 2008.
			c. Chiller is from 1998. Chiller and tower have issues.
			d. JCI is called for service frequently.
			e. Boilers are from 2008.
			f. JCI is called for service frequently.
			g. AHU in mechanical room is York.
			2. Technology
			a. Needs new voice fire alarm system. Existing system is horn and does not have a dialer.
			3. Site Work
			a. Parking lot redone in 2019 – no current needs identified except existing crack in sidewalk where concrete meets the paving at drop off
			b. Current issues with parent pick up/drop off – cars loop around small staff parking lot and backup on Washington; School owns a large part of unused property that includes a baseball field that could potentially be used to create extra drive/lanes to lessen this issue – will need to be further investigated by TMP. This route has access to M-50.
			c. Playground equipment upgrades needed
			d. Building entrance at SW corner of building has concrete slope issues. Heavy rain floods into building. Possibly add trench drain in exterior concrete entrance.
			4. Safety & Security
			a. Needs safe/secure main entrance. Main office reconfiguration
			b. In need of exterior signage/building identification
			c. School in need of more cameras/surveillance interior and exterior
			d. Issues with existing front entrance and ADA requirements
			5. General Topics
			a. Noticed fiberglass windows in gym similar to the roof at MS – does this need to be addressed?
			b. 1998 was the last time the school was updated on interior
			c. Media Center seemed to be warm. Doors on opposite sides were propped open which created a slight breeze through the room. Is this space normally too warm with poor ventilation?
			d. Roof redone in 2008 – issues with roof drainage/overflow drains.
			e. Currently there are no empty classrooms that can be repurposed
			f. Desire to have a Maker space/STEM for collaboration; arts & music spaces
			g. Replace corridor and classroom carpet
			h. Stage in cafeteria has operable partition that doesn't always slide correctly.

			Early Childhood Center
			1. MEP
			a. Drainage issue on roof over central office. All other roof sections need to be inspected
			b. Classrooms have unit ventilators. Some condensers have issues.
			c. Existing MDP is 600A. Some power distribution upgrades have been made including new feeders.
			d. Existing MDP is 600A. Some power distribution upgrades have been made including new feeders.
			e. Boilers are from 2008
			f. Water heater from 2008
			g. Equipment does not have VFD's
			h. Gym has 2 old AHU's mounted high in steel. They are noisy and belt-driven. They are only used 2 or 3 months per year.
			2. Technology
			a. Access Control system needs updates.
			3. Site Work
			a. Playground equipment is not age appropriate and in need of replacement/re-purposing
			b. Parking lot in need of mill & resurface or complete repaving
			4. General Topics
			a. Bathroom – possible new fixtures, finishes, partitions
			b. Majority of windows are difficult to open/ function; no screens
			c. Ceiling in seating area of gym is damaged to deck in one location
			d. Existing acoustical ceiling appears to be in good condition – no needs identified
			e. School had upgrades from 2008 (?) bond
			f. Sloped floor into gym space is steep and may benefit from wall handrail
			Bus Garage
			1. General Topics
			a. Existing structure original from 1930 and in very poor condition on exterior and interior
			b. Majority of property being utilized is not owned by school; some adjacent school property currently in the works to be donated by the school
			c. Current location undesirable – would like to be closer to the high school and add office in building, more than one bathroom, and a lounge
			d. Potential relocation of transportation building to High School soccer field; current location is central to all schools – relocating to HS would only be ~4 miles further
			e. Existing or new building needs to be taller to accommodate lifts/hoists
			f. In need of 2-3 lifts/hoists and 2-3 bays, high-power power washer
			g. Currently buses only half covered under structure – possibly fully covered to prevent water collection in bus vents
			h. Should a fuelling station be added; will need to investigate current fuelling costs to fuel off-site at local stations
			i. Gravel lot is in poor condition – muddy, lots of ponding
			j. Existing building needs new concrete flooring and sloping
			k. Existing bathroom in poor condition – sink falls off wall, lots of leaking
			l. Existing building leaks at walls, windows, doors, roof and retains water/moisture – ponding/ floor flooding, wall damage
			m. Existing location in need of security & fencing
			n. Existing storage structure is currently being used but could be cleaned out and demoed to add more space; currently the only storage building available for the district
			o. Existing building is only building not connected to the district's network
			p. Has ceiling hung heating units; no cooling
			q. Transportation Director is committed to a diesel fleet so they must have engine block heater connections.
			Maintenance Building
			1. General Topics
			a. Stone ballast roof – has issues.
			b. Parking lot is in poor condition and needs to be expanded.
			c. Replace select doors and hardware
			Alternative Buildings
			1. General Buildings
			a. Stadium (Storage Building, Concession Building, Fieldhouse/Locker Rooms)
			b. Storage Building adjacent to Bus Garage
			Miscellaneous Items
			1. Buses (Quantity TBD)
			2. Environmental/Hazardous Material Removal (Asbestos/Lead/Etc.)
			i. Bus Garage
			ii. Early Childhood Center
			iii. High School

APPENDIX E

PROJECT STEERING

COMMITTEE MEETING #2



January 5, 2022

**Lakewood Public Schools - 2022 Bond Program
Prioritized Scope of Work & Budget**

Building	Budget
High School Potential Scope of Work	\$ 14,834,697
Middle School Potential Scope of Work	\$ 7,125,452
Elementary Potential Scope of Work	\$ 3,065,432
Early Childhood Center Potential Scope of Work	\$ 2,579,840
Bus Garage Potential Scope of Work	\$ 538,740
Maintenance Building Potential Scope of Work	\$ 690,723
Misc. Projects Potential Scope of Work	\$ 90,000
Total Program Budget	\$ 28,924,884

Escalation calculated at 15% (tentative schedule to complete 2023 - 2026)

Potential Added Scope (Includes escalation & Soft Costs):

New 30,000 SF ECC (\$405/SF)	\$ 12,150,000
New 40,000 SF ECC (\$405/SF)	\$ 16,200,000
New 5,000 SF Bus Garage & 12,000 SF Canopy (hoists N/I)	\$ 2,500,000
New Fueling Station at Bus Garage	\$ 270,000

<u>Summary of Budgeted Soft Costs:</u>	<u>Percentage</u>
Bond Costs	1.0%
Owner Misc. Costs	2.5%
A/E Fees	7.0%
CM Fees	3.0%
General Conditions	5.0%
Construction Contingency	10.0%
Design Contingency	3.5%
Bonds/Insurances	3.0%
SOFT COST TOTAL	35%

January 5, 2022

**Lakewood Public Schools - 2022 Bond Program
High School Potential Scope of Work**

Legend:

Safety & Security: RED

Competitive Advantage: GREEN

Good Stewards of the Communities Money: YELLOW

Rating System: 1 is highest priority to 3 being lowest priority

Ave. Rating	Building/Description
1.11	Track needs to be replaced – currently ponding, been patched/repared, track surface worn to asphalt subbase. Fencing around track and field complex are original.
1.12	Additional lighting needed at north school entry/bus drop-off lot– hard to see; identification signage needed?
1.12	Additional lighting needed at north school entry/bus drop-off lot– hard to see; identification signage needed?
1.17	New safe/secure main entrance.
1.22	Would like local alarms on selected doors when left open. They have issues with people propping open doors that should remain locked.
1.22	Roof Replacement -
1.28	Front offices – remodel – new finishes, new casework (?)
1.28	Existing Fire alarm system is a horn system, and the HS is the only system that dials out to fire department. FACP is original.
1.28	Various locations in Acoustical Ceiling Tile in corridors where water/leaks were present; water stains, sagging tiles
1.28	Bathrooms – remodel – new finishes, partitions (this is a need throughout the district)
1.33	Current passage to 2nd floor weight room needs secure entry – would need to be infilled and double door added; currently there is drywall behind the tile
1.33	Tennis courts need to be resurfaced – ponding; note fiber manhole in one of the courts; no site lighting needed.
1.39	Parking lots/drives – mill & resurface or replace. Re-purpose millings for gravel/dirt lots
1.39	There is no drive lighting along E Brown Rd. entrance which service athletic fields entrance.
1.41	Considering replacement of existing grass football field converted to football/soccer turf field.
1.44	Pendant can light fixtures above seating and stage are original Halogen.
1.44	Boilers are from 2008. Would like new. Existing are Thermal Solutions. Heat exchanger has been replaced for one boiler. Boilers did not have water softener until 2009 or 2010
1.44	There is not a need for a substantial increase in Access Control locations, but the existing locations need updates or replacement. Existing system is "S2" ?
1.44	Asphalt approach at football field spectator entrance is in bad condition.
1.44	New fencing at baseball fields. Baseball/softball infields have ponding/drainage issues.
1.5	General lighting above seating is existing industrial type fixture with LED lamps.
1.5	New Gym: PA system inefficient – muffled, too low
1.5	Soccer field – relocate to stadium; current field may be potential site for future bus garage; drainage needs to be addressed it is believed that septic drain runs below soccer field.
1.56	Lighting and equipment may be an issue and need to be upgraded
1.56	Sound equipment is old.
1.59	Would like cafeteria to be more user friendly – add booths along window wall, high top tables
1.61	Floor drain cleanout outside of cafeteria inefficient
1.61	Would like restrooms at baseball/softball fields.
1.67	Existing clocks are analog, and they have periodic issues with them, such as wrong time. IT director asked if clocks are even required. If not, can they be removed?
1.72	Replacement of electronic sign. Software operating the sign is no longer supported
1.72	New scoreboard at stadium – existing posts in good shape, only board needs to be replaced. District is interested in video display.
1.72	Replace carpet throughout
1.78	New home grandstand – currently steel structure base. Would this require the press box to be replaced?
1.83	New Gym: Poor WiFi coverage
1.83	Original gym: Bleachers are existing from 1964 – shows sign of wear, breaks/cracks. Would like new bleachers.
1.88	Not all rooms have A/C. Options to add?
1.89	Drainage to wildlife refuge

*Building SF from Lakewood		183863		GRANGER			
QTY	UNIT	RATE	ESCALATED RATE	SOFT COSTS	TOTAL	NOTES	
62,000	SF	\$15.00	\$17.25	\$6.04	\$1,443,825	Includes sub bases, asphalt, 1/2" track surface, removal of existing, trench drainage, Track system is BSS 1000	
5	EA	\$2,500.00	\$2,875.00	\$1,006.25	\$19,406	Assuming 5; Site lighting - poles	
1	EA	\$30,000.00	\$34,500.00	\$12,075.00	\$46,575	Assuming 1 sign, lit	
2,200	SF	\$150.00	\$172.50	\$60.38	\$512,325	Based on CPS for secure office	
15	EA	\$5,000.00	\$5,750.00	\$2,012.50	\$116,438	Assuming 15 doors	
183,863	SF	\$26.00	\$29.90	\$10.47	\$7,421,843	further evaluation required - Includes demo of existing, membrane, coping, parapet	
			\$0.00	\$0.00	\$0	See program needs detailed below	
183,863	SF	\$3.25	\$3.74	\$1.31	\$927,704		
10,000	SF	\$8.00	\$9.20	\$3.22	\$124,200	Assuming 10,000 SF; Inludes removal and replacement	
3,900	SF	\$150.00	\$172.50	\$60.38	\$908,213	Assuming 6 bathrooms - hard to count on plan	
1	LS	\$10,000.00	\$11,500.00	\$4,025.00	\$15,525	infill existing opening, door/hardware, paint	
			\$0.00	\$0.00	\$0		
			\$0.00	\$0.00	\$0	Further evaluation required	
			\$0.00	\$0.00	\$0	Further evaluation required	
1	LS	\$800,000.00	\$920,000.00	\$322,000.00	\$1,242,000		
					\$0	Further evaluation required	
					\$0	Further evaluation required	
					\$0	Further evaluation required	
					\$0	Included in track replacement	
					\$0	Further evaluation required	
					\$0	Further evaluation required	
					\$0	Further evaluation required	
					\$0	Further evaluation required	
					\$0	Further evaluation required	
					\$0	Further evaluation required	
					\$0	Further evaluation required	
					\$0	FFE	
					\$0	Further evaluation required	
					\$0	Further evaluation required	
					\$0	Further evaluation required	
					\$0	Tech. Consultant to advise	
1	LS	\$50,000.00	\$57,500.00	\$20,125.00	\$77,625		
					\$0		
1	LS	\$75,000.00	\$86,250.00	\$30,187.50	\$116,438	basic scoreboard system, no video	
45,966	SF	\$8.00	\$9.20	\$3.22	\$570,895	based on 25% of building SF	
					\$0	Further evaluation required	
					\$0	Tech. Consultant to advise	
					\$0		
1	LS	\$175,000.00	\$201,250.00	\$70,437.50	\$271,688		
					\$0	Further evaluation required	
					\$0	Further evaluation required	

January 5, 2022

**Lakewood Public Schools - 2022 Bond Program
Middle School Potential Scope of Work**

Legend:

Safety & Security: RED

Competitive Advantage: GREEN

Good Stewards of the Communities Money: YELLOW

Rating System: 1 is highest priority to 3 being lowest priority

Ave. Rating	Building/Description
1	There is only (1) network drop per classroom. Would like additional network drops and updated network cabling throughout.
1.13	Network cabling is 1998-1999 – only school in district that has not received cabling upgrade
1.19	Current bus loop at front of building is inefficient and has ADA issue – lane needs to be widened and/or have separate lane added
1.19	Main entry – needs secure entrance. Possibly existing conference room to be converted into secure entrance/welcome center?
1.19	Inefficient office locations front office to other offices – combine into one space if possible; upgrade finishes
1.19	Existing fiberglass/skylight roofing in main entry & corridor leaks a lot and has been patched & repaired many times – this roof is original to the building and has visible damage from sun exposure
1.25	There are 4 older VFD's for RTU's. Installed 1998.
1.25	Gym masonry is cracked horizontally at the adjacent roof line – cause unknown at this time; been present for last 10 yrs or so but does not seem to be becoming larger/ more of an issue
1.25	Roof work is need on flat roofs; no needs currently identified for vaulted ceiling/roof
1.27	Half of the school building is pneumatic controls. Would like pneumatic updated to new BMS.
1.31	Bathrooms – upgrade finishes, new partitions
1.31	Major big-ticket items identified in site visit to be addressed are the roof and parking lots
1.38	New chiller & tower needed. Existing is York.
1.38	One existing boiler has been replaced and is Fulton. One existing boiler needs to be replaced.
1.38	Heat exchanger plate leaks. New CHW pumps and VFD's needed.
1.38	Exterior gutters in visibly poor condition – needs to be replaced
1.44	Would like exterior lighting controls to be updated. Existing are old time clocks.
1.44	Various locations in ACT ceiling where water/leaks were present at wall/ceiling perimeters, water stains down walls and on ACT
1.5	Some 2-way valves on RTU's have been replaced.
1.5	Carpet to be replaced throughout building.
1.53	Gym sound system doesn't operate well.
1.56	Exterior – new benches, picnic tables, possible outdoor learning space with covering
1.56	Existing lighting controls inefficient in some corridors - Upgrade to sensor control to match other areas of the building. Classrooms appear to be occupancy controlled. Principle would prefer that no manual control needed when entering room. Possibly change to occupancy controls? However, lighting and controls have recently been updated.
1.69	New playground for 5th graders requested
1.75	Gym bleachers are in good condition but have some mechanical issues. Possible motors or operable mechanisms issues.
2.25	Little league infield needs to be redone
	Parking lot has recently been spot patched and resealed– mill & resurface or complete repave
	PROGRAM NEEDS
	Remodel Entry/Lobby/Administration
	Furniture
	Library Minor Renovation
	Furniture

*Building SF from Lakewood		96489		GRANGER		
QTY	UNIT	RATE	ESCALATED RATE	SOFT COSTS	TOTAL	NOTES
96,489	SF	\$3.00	\$3.45	\$1.21	\$449,398	
96,489	SF	\$0.00	\$0.00	\$0.00	\$0.00	TBD
	SF	\$0.00	\$0.00	\$0.00	\$0.00	more information needed
720	SF	\$150.00	\$172.50	\$60.38	\$167,670	
2,400	SF	\$110.00	\$126.50	\$44.28	\$409,860	
2,784	SF	\$60.00	\$69.00	\$24.15	\$259,330	removal and replacement with metal deck and membrane roofing; assuming 6:12 slope
4	EA	\$25,000.00	\$28,750.00	\$10,062.50	\$155,250	verify with MEP
399	LF	\$50.00	\$57.50	\$20.13	\$30,972	perimeter of gym space only (Requires Structural Engineering review)
87,697	SF	\$27.71	\$31.87	\$11.16	\$3,773,374	excludes vaulted roof & skylight
	SF	\$0.00	\$0.00	\$0.00	\$0.00	need more info
	SF	\$150.00	\$172.50	\$60.38	\$0	
						further evaluation required
						further evaluation required
						further evaluation required
0						further evaluation required
0						further evaluation required
						further evaluation required
						further evaluation required
						further evaluation required
24,122	SF	\$8.00	\$9.20	\$3.22	\$299,598	based on 25% of building SF
						further evaluation required
						further evaluation required
						further evaluation required
						further evaluation required
						further evaluation required
						further evaluation required
						further evaluation required
						further evaluation required
						further evaluation required
3,000	SF	\$200.00			\$600,000	
1	LS	\$50,000.00			\$50,000	
5,300	SF	\$100.00			\$530,000	
1	LS	\$100,000.00			\$100,000	

Commons Minor Renovation	2,000	SF	\$100.00			\$200,000
Furniture	1	LS	\$100,000.00			\$100,000
Instructional Technology						
Technology Equipment						
Hazardous Material Removal Allowance (None expected for this building)						
Additional Feedback for Middle School:	BUDGET					
Main concerns at the middle school for me are the main entrance and the traffic flow. The main entrance is a huge concern with outside access to students and classrooms almost without barrier. Traffic flow from Brown Rd. into the school and bus routing around the school need improvements, as well as lighting along Brown Rd.	\$7,125,452					
Lighting switches in the hallways and bathrooms are the issue points. We have to use a special key to be able to turn the lights on and off.						
See LHS media center comment Improve the visual appeal and instructional opportunities of the commons space that serves as the intersection between the academic hallways. Possibly do the same with the hallway from the main entrance to the cafeteria						
Band/choir Department needs: - Sound system in band & choir rooms - PA system updated - Instruments (school owned instruments for student use - 2 flutes, 2 clarinets, 2 alto saxophones, 1 tenor saxophone, 1 bari saxophone, 2 trumpets, 2 trombones, 1 baritone, vibraphone, marimba, bass drum, timpani) - Renovate/expand music rooms - Music Stands & Chairs - Electric piano for band room (clavinova) - Upright piano for choir - Nuvo instruments for 5th graders (more of a want than a need) - Risers for Choir - Piano lab (more of a want than a need) Rationale: - Sound system: Safety/security & competitive adv - current sound system is extremely outdated and doesn't work. - PA system: Safety/security - current system is unable to be heard while students are playing instruments. Not safe in the event of an emergency - Instruments: competitive adv - currently do not have enough instruments to provide for students or current instruments are lacking in quality - Renovate/expand rooms: safety/security & competitive adv - Current band room is too small for the size of groups we typically hold in there. We can currently hold around 40 students and we average about 60-70 6th graders every year. Current choir room is a former science room. Would benefit the middle school choir (and in turn help with retention into HS choir) to renovate it into a true choir room as one room and not 2 with a divided wall in between them. Would like to be a part of design process for these renovations/expansions - Stands & Chairs: competitive adv - numbers are dictating we need more of both of these. At the moment the choir is using band chairs and we will not have enough if number trends continue as they are. - Pianos: competitive adv - current pianos are old and need updating - Nuvo instruments: competitive adv - can begin 5th graders on instruments that are electronic and can be cleaned and sanitized between every use. - Risers: safety/security - current risers are in subpar shape. They are useable but are not good overall. With a renovated choir room risers can be used to help students gain an advantage in this class. - Piano lab: competitive edge						
Audio system in band room needs upgrading. Additional cameras needed indoors and added to the outdoors						

January 5, 2022

**Lakewood Public Schools - 2022 Bond Program
Elementary School Potential Scope of Work**

Legend:

Safety & Security: RED

Competitive Advantage: GREEN

Good Stewards of the Communities Money: YELLOW

Rating System: 1 is highest priority to 3 being lowest priority

Ave. Rating	Building/Description
1.13	Storm cleanout in interior wall backs up and overflows into hallway – appears to not be sized properly
1.13	Building entrance at SW corner of building has concrete slope issues. Heavy rain floods into building. Possibly add trench drain in exterior concrete entrance.
1.13	Needs safe/secure main entrance. Main office reconfiguration
1.25	Current issues with parent pick up/drop off – cars loop around small staff parking lot and backup on Washington; School owns a large part of unused property that includes a baseball field that could potentially be used to create extra drive/lanes to lesson this issue – will need to be further investigated by TMP. This route has access to M-50.
1.27	Chiller is from 1998. Chiller and tower have issues.
1.38	Needs new voice fire alarm system. Existing system is horn and does not have a dialer.
1.38	Issues with existing front entrance and ADA requirements
1.38	Roof redone in 2008 – Issues with roof drainage/overflow drains.
1.44	School in need of more cameras/surveillance interior and exterior
1.5	In need of exterior signage/building identification
1.56	ICI is called for service frequently.
1.56	Noticed fiberglass windows in gym similar to the roof at MS – does this need to be addressed?
1.63	Power distribution updates in 2008.
1.69	Replace corridor and classroom carpet
1.75	Playground equipment upgrades needed
1.75	1998 was the last time the school was updated on interior
1.75	Stage in cafeteria has operable partition that doesn't always slide correctly.
1.81	Media Center seemed to be warm. Doors on opposite sides were propped open which created a slight breeze through the room. Is this space normally too warm with poor ventilation?
	Desire to have a Maker space/STEM for collaboration; arts & music spaces
	PROGRAM NEEDS
	Remodel Entry/Lobby/Administration
	Furniture
	Library Minor Renovation
	Furniture
	Cafeteria Minor Renovation
	Stage Renovation
	Instructional Technology
	Technology Equipment

Additional Feedback for Elementary School:

Additional space to integrate Kindergarten, Kinder-start and possible daycare. Individual exit windows or doors for each upper grade level room. The current exit windows are not easily opened.

If we are going to entertain the idea of building a new school I think this location would be best suited for the district. Lake Odessa is more centrally located and a higher population density than the Woodland location. My concerns would be space on this location.

See high school media center comment Cost out a multi-purpose room addition for use as second gym and other purposes

*Building SF from Lakewood	54962
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GRANGER						
QTY	UNIT	RATE	ESCALATED RATE	SOFT COSTS	TOTAL	NOTES
1	LS	\$30,000.00	\$34,500.00	\$12,075.00	\$46,575	Demo floor, new piping
70	SF	\$48.96	\$56.31	\$19.71	\$5,321	removal & replacement of ~70SF of concrete, 15LF drain & cover
2,000	SF	\$150.00	\$172.50	\$60.38	\$465,750	
0		\$0.00	\$0.00	\$0.00	\$0	more information needed
1	LS	\$275,000.00	\$316,250.00	\$110,687.50	\$426,938	assuming 150 tons
54,962	SF	\$4.00	\$4.60	\$1.61	\$341,314	
150	SF	\$206.67	\$237.67	\$83.18	\$48,128	floor modifications, finishes, removal of portion on wall to accommodate wider doors
0		\$0.00	\$0.00	\$0.00	\$0	more information needed
54,962	LS	\$1.50	\$1.73	\$0.60	\$127,993	verify with MEP
1	LS	\$40,000.00	\$46,000.00	\$16,100.00	\$62,100	exterior and interior signage
						further evaluation required
27,481	SF	\$8.00	\$9.20	\$3.22	\$341,314	based on 50% of building SF
						further evaluation required
						see Bond Program item below
						see Bond Program item below
						further evaluation required
2,000	SF	\$200.00			\$400,000	
1	LS	\$50,000.00			\$50,000	
3,200	SF	\$100.00			\$320,000	
1	LS	\$100,000.00			\$100,000	
2,000	SF	\$100.00			\$200,000	
650	SF	\$200.00			\$130,000	

BUDGET \$3,065,432

January 5, 2022

**Lakewood Public Schools - 2022 Bond Program
Early Shildhood Center Potential Scope of Work**

Legend:

- Safety & Security: RED
- Competitive Advantage: GREEN
- Good Stewards of the Communities Money: YELLOW
- Rating System: 1 is highest priority to 3 being lowest priority

Ave. Rating	Building/Description
1.44	Playground equipment is not age appropriate and in need of replacement/re-purposing
1.69	Drainage issue on roof over central office. All other roof sections need to be inspected
1.69	Parking lot in need of mill & resurface or complete repaving
1.69	Parking lot in need of mill & resurface or complete repaving
1.75	Classrooms have unit ventilators. Some condensers have issues.
1.75	Bathroom – possible new fixtures, finishes, partitions
1.75	Majority of windows are difficult to open/ function; no screens
1.81	Access Control system needs updates.
1.81	Sloped floor into gym space is steep and may benefit from wall handrail
1.87	Ceiling in seating area of gym is damaged to deck in one location
2.06	Gym has 2 old AHU's mounted high in steel. They are noisy and belt-driven. They are only used 2 or 3 months per year.
2.07	Equipment does not have VFD's
2.13	Existing MDP is 600A. Some power distribution upgrades have been made including new feeders.
2.57	Existing acoustical ceiling appears to be in good condition – no needs identified
PROGRAM NEEDS	
	Renovate Gym & Re-purpose Bleachers
	Library Minor Renovation
	Furniture
	Instructional Technology
	Technology Equipment
	Hazardous Material Removal Allowance

Additional Feedback for Early Childhood Center:

Close the school.

I am hesitant to put much effort into this building in general. It is 100 years old and will be the next to close down. If space for a new LECC is needed and it is decided to be in Woodland I do like the idea of building it behind the existing building then demolishing the existing building. This one would need a lot of thought.

Addition of a multi purpose room SW end of building. Possible elimination of stage and bleachers to create usable space for ECSE program and ISD staff offices/intervention rooms. OT, PT, (currently utilize stage)

Needs new Fire alarm system as well as the middle school. District wide is what I am hoping for.

See high school media center comment Continue to explore the possibility of a new Early Childhood Center building

Excavate / demolish this building and build new LECC on or near the Elementary property.

I love the idea of building a new Early Childhood Center that offers daycare, along with our Kinderstart and Kindergarten classes. I would like to find out if there are other districts that provide daycare at their early childhood centers and possibly visit them to see

At this point, I see a great need to start new instead of fix and patch this building.

I do not think it makes sense to put money into a building this old. I feel we should explore a new building attached to the current elementary building in Lake Odessa.

*Building SF from Lakewood		40366		GRANGER			
QTY	UNIT	RATE	ESCALATED RATE	SOFT COSTS	TOTAL	NOTES	
1	LS	\$50,000.00	\$57,500.00	\$20,125.00	\$77,625		
0		\$0.00	\$0.00	\$0.00	\$0	more information needed	
3,747	SY	\$44.77	\$51.48	\$18.02	\$260,423	repave	
3,747	SY	\$14.75	\$16.97	\$5.94	\$85,829	mill & resurface	
0		\$0.00	\$0.00	\$0.00	\$0	more information needed	
1,500	SF	\$250.00	\$287.50	\$100.63	\$582,188		
0		\$0.00	\$0.00	\$0.00	\$0	Not enough scope information	
40,366	SF	\$3.00	\$3.45	\$1.21	\$188,005	verify with MEP	
10	LF	\$160.00	\$184.00	\$64.40	\$2,484	handrail	
1	LS	\$15,000.00	\$17,250.00	\$6,037.50	\$23,288		
N/A						general comment	
N/A						general comment	
N/A						general comment	
N/A						general comment	
5,300	SF	\$200.00			\$1,060,000		
2,000	SF	\$100.00			\$200,000		
1	LS	\$100,000.00			\$100,000		

BUDGET **\$2,579,840**

January 5, 2022

**Lakewood Public Schools - 2022 Bond Program
Bud Garage Potential Scope of Work**

Legend:

Safety & Security: RED

Competitive Advantage: GREEN

Good Stewards of the Communities Money: YELLOW

Rating System: 1 is highest priority to 3 being lowest priority

Ave. Rating	Building/Description
1.12	Existing structure original from 1930 and in very poor condition on exterior and interior
1.24	Currently buses only half covered under structure – possibly fully covered to prevent water collection in bus vents
1.35	Transportation Director is committed to a diesel fleet so they must have engine block heater connections.
1.47	Potential relocation of transportation building to High School soccer field; current location is central to all schools – relocating to HS would only be ~4 miles further
1.53	Majority of property being utilized is not owned by school; some adjacent school property currently in the works to be donated by the school
1.71	Existing building is only building not connected to the district's network
1.76	Existing storage structure is currently being used but could be cleaned out and demoed to add more space; currently the only storage building available for the district
1.82	Gravel lot is in poor condition – muddy, lots of ponding
1.94	Existing bathroom in poor condition – sink falls off wall, lots of leaking
1.94	Existing building leaks at walls, windows, doors, roof and retains water/moisture – ponding/ floor flooding, wall damage
1.94	Existing location in need of security & fencing
2.06	Existing building needs new concrete flooring and sloping
2.06	Has ceiling hung heating units; no cooling
2.12	Should a fueling station be added; will need to investigate current fueling costs to fuel off-site at local stations
	Current location undesirable – would like to be closer to the high school and add office in building, more than one bathroom, and a lounge
	Existing or new building needs to be taller to accommodate lifts/hoists
	In need of 2-3 lifts/hoists and 2-3 bays, high-power power washer
	Instructional Technology
	Technology Equipment
	Hazardous Material Removal Allowance

Additional Feedback for Bus Garage:

I believe a new bus garage should be a top priority. I labelled most of these items as a 2 simply because I wouldn't put the effort into fixing them, I would push for the new building. I didn't label them as 3's because they would have to be fixed if we decided not to go with the new building.

We need a new bus Garage. I wouldn't want to put another penny in the current one. I think it would be beneficial to move the garage on the LPS property so we can run fiber to the building.

Wash unit for the busses

I do like idea of building new and using soccer field area. With this done what are cost comparison between putting turf on football field, bulking new or fixing a building that is very old.

Is it accurate that the Transportation Director is committed to a diesel fleet? Bus purchases as part of the bond Build new please.

We need a new bus garage that meet our needs. If decide not to build new garage importance will change.

We need a new bus garage that is equipped to service our fleet. I am not sure whether that location be by the high school or it's existing location, by tearing down our current and building new.

Sounds like a new building and location moved to high school is definitely needed.

GRANGER						
QTY	UNIT	RATE	ESCALATED RATE	SOFT COSTS	TOTAL	NOTES
5,000	SF	\$315.00	\$362.25	\$126.79		Assuming 5000SF PEMB with 12,000 SF bus canopy - based on CMPS bus canopy & foundations; includes demo of existing; includes foundations; excludes slab
N/A						general comment
N/A						general comment for bus feature
N/A						no information for scope
N/A						general comment
0		\$0.00	\$0.00	\$0.00	\$0	more info needed
4,800	SF	\$7.00	\$8.05	\$2.82	\$52,164	Removal of existing structure
7,239	SY	\$5.50	\$6.33	\$2.21	\$61,812	Regrade existing lot and add 4" gravel 50% of lot
1	LS	\$25,000.00	\$28,750.00	\$10,062.50	\$38,813	Reno Existing; See Cost for new PEMB Bus Garage for new
1	LS	\$100,000.00	\$115,000.00	\$40,250.00	\$155,250	Reno Existing; See Cost for new PEMB Bus Garage for new
1,200	LF	\$53.00	\$60.95	\$21.33	\$98,739	includes 2 motor operated gates; 6'H fence
3,500	SF	\$10.00	\$11.50	\$4.03	\$54,338	Reno Existing; See Cost for new PEMB Bus Garage for new
1	LS	\$50,000.00	\$57,500.00	\$20,125.00	\$77,625	new heaters, no cooling
N/A						general comment
N/A						general comment
N/A						general comment
0		\$0.00	\$0.00	\$0.00	\$0	further evaluation required

BUDGET \$538,740

January 5, 2022

**Lakewood Public Schools - 2022 Bond Program
Alternative Building/Misc. Potential Scope of Work**

Legend:

Safety & Security: RED

Competitive Advantage: GREEN

Good Stewards of the Communities Money: YELLOW

Rating System: 1 is highest priority to 3 being lowest priority

Ave. Rating	Building/Description
	Alternative Buildings/Misc.
1.59	Stadium Renovations to Storage Building, Concession Building, Fieldhouse/Locker Rooms
1.53	New Buses (Quantity TBD)
1.71	Environmental/Hazardous Material Removal (Asbestos/Lead/Etc.) - District Wide
2.06	Demo Storage Building adjacent to Bus Garage
	Instructional Technology
	Technology Equipment
	Hazardous Material Removal Allowance

Additional Feedback for Alternative Buildng/Misc.:

Any hazardous material in a location we have students present should be removed.

Depends if we Build a bus garage or new LECC. If we build new then not important to do any if we don't then we need to remove all hazardous material


GRANGER

QTY	UNIT	RATE	ESCALATED RATE	SOFT COSTS	TOTAL	NOTES
0		\$0.00	\$0.00	\$0.00	\$0	more information needed
1	EA	\$90,000.00	\$0.00	\$0.00	\$90,000	from Jeff
0		\$0.00	\$0.00	\$0.00	\$0	more information needed
4,800	SF		\$0.00	\$0.00	\$0	See Bus Garage

BUDGET \$90,000



APPENDIX F
**LAKWOOD SCHOOL STAFF
MEETINGS**



LAKESWOOD PUBLIC SCHOOLS
Preparing our students for success.

LAKESWOOD ELEMENTARY SCHOOL
STAFF MEETING

Monday, January 10, 2021
3:45



STRATEGIC PLAN
3-5 YEAR TARGETS & GOALS

OUR CORE VALUES
RESPECT. RESPONSIBILITY. SAFETY.
EXCELLENCE. TRUST. COMMUNITY.

VISION
As a community we will: Educate, Empower, and Equip our Students for Life

MISSION
Preparing Our Students for Success

PROMISE
Every Student. Every Class. Every Day.

1 Target 1 ACADEMICS
Lakewood Public Schools will provide all students with individualized high-quality education.

2 Target 2 CULTURE & LEARNING
Lakewood Public Schools will promote a positive environment to develop a social and emotionally healthy culture.

3 Target 3 PERSONNEL & LEADERSHIP
Lakewood Public Schools will collaborate with staff to provide necessary resources and support.

4 Target 4 COMMUNICATIONS & COMMUNITY ENGAGEMENT
Lakewood Public Schools will provide clear and consistent communication to engage all students, staff and community members.

5 Target 5 OPERATIONS
Lakewood Public Schools will fiscally and responsibly maintain and improve district-wide facilities while planning for future needs.

GOAL 1
Continue to promote a culture of tolerance, dignity, and respect

GOAL 2
Ensure that student can identify a trusted adult and likewise, confirm that every student is personally known by at least one professional in his/her school

GOAL 3
Develop and implement a system of Positive Behavioral Interventions and Supports that provides students greater opportunity to consistently engage in learning

GOAL 4
Collaborate with community mental health, area medical providers, and neighboring universities, districts, and the ISD to leverage intellectual and monetary resources specific to trauma and mental health services fund proposal.

GOAL 1
Provide all students with a rigorous curriculum aligned to state and federal standards

GOAL 2
Use formative and summative assessments as student data to continuously improve curriculum, instruction, and identify academic support

GOAL 3
Develop Individual Learning Plans for students that expose them to careers from the earliest ages and prepare them for and provide access to post-secondary education to meet their career goals

GOAL 1
Support student well-being by recognizing and supporting staff well-being

GOAL 2
Develop a coordinated professional learning plan that includes additional time for teacher collaboration (e.g. to reflect, to inquire, to research, to implement, to evaluate) and is educator-driven whenever possible.

GOAL 3
Develop partnerships with local colleges and universities to recruit and retain quality teachers

GOAL 1
Provide resources necessary to maintain the district's commitment to high quality communications that educates and celebrates

GOAL 2
Implement common instructional and communications platforms across classrooms and schools

GOAL 3
Develop regular opportunities for students or staff to interact with parents and community members/leaders

GOAL 1
Employ financial forecasting and internal controls to maintain annual budget surpluses

GOAL 2
Successfully pass a ballot initiative to provide financial resources to maintain (and expand) school facilities, instructional resources, and student programs

GOAL 3
Continue to improve district technology infrastructure and device reliability to support a 1:1 program that promotes instructional use and innovation

Today:

- Reviewing our Group Expectations
- Work Done to Date
- Project Steering Committee
- Big Ideas
- Opportunities for Involvement
 - Project Scope
 - Election Committee
- Next Steps

Group Expectations

- Presume the Positive
 - Ideas, Effort, and Outcome
- Remain open minded
 - Engage in "The Why"
- All Ideas are Welcome
 - But, not all ideas will make the final project list
- Stay Involved

Work Done to Date

- Last Bond Project – 2010
- Last Energy Upgrade – 2020
- Refinancing – 2021/22, Provides the opportunity to complete new bond projects without increasing the taxpayer debt millage levy
 - S&P upgraded LPS bond rating from A to A+
 - Bond sale – January 5, 2022 (first week of 2022 – lower supply, greater demand)
 - Average interest rate reduced from 4.6% to 2.38%
 - Savings of \$1,743,942
 - Successful refinancing threshold is a net present value of savings of at least 3%. Our net present value of savings was 8.02%!
 - What's it mean?
 - Able to raise \$64M for bond projects while maintaining a
 - Net neutral debt millage levy (no increase in debt millage for tax payers)

Work Done to Date

- August 2021 – LPS requested Proposals for Design and Construction Management Services to assess a potential bond
- September 2021, LPS hired TMP Architecture & Granger Construction Company
- October – December 2021, LPS, TMP, GCC, and targeted area consultants (mechanical & plumbing, electrical, civil engineering, technology, and athletics) assessed the facilities defining a potential scope of work for a bond issue
- December 2021, LPS initiated a Steering Committee to develop a recommendation for the Board of Education regarding the scope of the project by determining and prioritizing district program and facility needs within allowable bond proceeds expenses

Project Steering Committee

Matt Aldrich	Instruction, Athletics, Parent	<u>Consultants</u>
Mike Beach	Technology, Parent	PFM Financial Advisors LLC
Pam Behling	Finance	Thrun Law, Legal Counsel
Keith Carpenter	Principal	TMP Architecture
Nick Chase	Operations/Maintenance, Parent	Granger, Construction Management
Lauren Christensen	Administration	
Chris Duits	Athletics, Parent, Community	
Jodi Duits	Curriculum, Instruction, Assessment, Parent	
Duane Geiger	Community, Arts	
Don Hoaglin	Principal	
Matt Markwart	Instruction, Athletics, Parent	
Tammy Marriott	Instruction	
Adam Noaeill	Instruction, Arts	
Mike Quinn	Assistant Principal/Athletics	
Frank Pytlowany	(Former) Board of Education, Community	
Steve Skalka	Administration	
Lydia Suntken	Instruction, Association Building Rep, Parent	
Darin Weller	Board of Education	
Steve Williams	Principal	

Big Ideas (the “Hook”)



School Safety and Security

- fairly self-explanatory and, sadly, timely

Competitive Advantage

- for students, this is providing them programs and experiences that make it more likely they will be successful in post-secondary education opportunities and employment
- for the community, this is providing facilities and programs that attract new families and residents to the District

Good Stewards of the Public's Money

- doing the "big ticket" preventative maintenance (roofs, parking lots, etc.) before they become even more expensive and take dollars away from student programs
- operate facilities that meet community needs while also providing opportunity to generate revenue
- availability of bond revenue to provide general fund relief

Next Steps – Stay Involved

Think about, reflect, and have conversation with colleagues about what you heard today

Respond to the feedback survey – coming by Friday

Get involved in the bond campaign

APPENDIX G

PROJECT STEERING

COMMITTEE MEETING #3



January 12, 2022

**Lakewood Public Schools - 2022 Bond Program
Prioritized Scope of Work & Budget**

Buildings/Projects	Budget	
High School Scope of Work		
Infrastructure Needs	\$ 10,810,200	\$ 11,830,200
Program Needs	\$ 1,020,000	
Middle School Scope of Work		
Infrastructure Needs	\$ 9,096,809	\$ 10,376,809
Program Needs	\$ 1,280,000	
Elementary Scope of Work		
Infrastructure Needs	\$ 3,481,514	\$ 4,747,264
Program Needs	\$ 1,265,750	
ECC - New 40,000 SF Building/Parking/Drives (\$415/SF)	\$ 16,600,000	
Administration Building New Entrance/Renovation (new entrance, roof replacement, MEP)	\$ 1,000,000	
Bus Garage - New 5,000 SF Garage & 12,000 SF Canopy (Includes demolition of existing bus garage)	\$ 4,800,000	
Demolition of ECC/Maintenance Buildings/Parking/Drives	\$ 500,000	
Elementary School Multi-purpose Addition (6,000 SF)	\$ 2,250,000	
Demolition of Storage Building adjacent to Bus Garage	\$ 52,164	
Band/Choir/Auditorium (Theater) Improvements	\$ 500,000	
Field House - New 18,592 SF Building at main campus	\$ 7,436,800	
Technology re-fresh (two series)	\$ 500,000	
Buses	\$ 1,350,000	
FFE	\$ 360,000	
Elementary School new drives/parking	\$ 821,100	
	\$ 63,124,336	

Soft costs (35%) and escalation (15%) included in the above indicated budgets

<u>Summary of Budgeted Soft Costs:</u>	<u>Percentage</u>
Bond Costs	1.0%
Owner Misc. Costs	1.0%
A/E Fees	7.0%
CM Fees	3.0%
CM Staffing	4.0%
General Conditions	3.0%
Construction Contingency	10.0%
Design Contingency	3.0%
Bonds/Insurances	2.5%
SOFT COST TOTAL	35%

High School - Potential Scope of Work			
Scope of Work/Description	Support	Oppose	Support %
INFRASTRUCTURE NEEDS			
Track replacement and new fencing around track	18	0	100%
Additional lighting at north school entry/bus drop-off lot and additional signage needed?	16	2	89%
Renovate main entrance for safety/security	18	0	100%
Exterior door security/card access	17	1	94%
Partial roof replacement - Roof last replaced in 2008	17	1	94%
Front/Main office renovation, tied to safe/secure entrance	18	0	100%
Replace Fire alarm system	17	1	94%
Renovate/replace Acoustical Ceiling Tile in corridors due to water damage	15	3	83%
Bathrooms – remodel – new finishes, partitions	12	6	67%
Current passage to 2nd floor weight room needs secure entry	16	2	89%
Tennis courts need to be resurfaced	15	3	83%
Parking lots/drives – mill and/or replace. Re-purpose millings for gravel/dirt lots	16	2	89%
Add lighting along E Brown Rd. at athletic fields entrance.	15	3	83%
Install synthetic grass field at football stadium (utilize for football, soccer and other district activities)	17	1	94%
Replace light fixtures in Auditorium above seating and stage	14	4	78%
Replace boilers. Boilers are from 2008.	16	1	94%
Replace existing access controls throughout building	16	0	100%
Replace Asphalt approach to football field	15	3	83%
New fencing at baseball field	10	8	56%
Correct Baseball/softball infields that have ponding/drainage issues.	15	2	88%
Replace Gym PA system in new Gym	14	4	78%
Relocate soccer to stadium; current field may be potential site for future bus garage; drainage needs to be addressed It is believed that septic drain runs below soccer field.	18	0	100%
Would like cafeteria to be more user friendly – add booths along window wall, high top tables	12	6	67%
Repair floor drain cleanout outside of cafeteria	15	2	88%
Construct new restrooms at baseball/softball fields.	13	5	72%
Upgrade clock system	16	2	89%
Replace electronic sign. Software operating the sign is no longer supported	14	4	78%
Replace scoreboard at stadium (Consider video display)	12	6	67%
Replace carpet throughout building	13	3	81%
Replace stadium home grandstand (Consider replacement of the press box)	11	7	61%
Upgrade WiFi in New Gym (Poor WiFi coverage)	12	6	67%
Replace Original gym Bleachers (existing from 1964)	10	8	56%
Add Air Conditioning to 8 small offices without AC	12	6	67%
Re-route drainage to wildlife refuge. Currently runs under tennis courts	12	6	67%
Replace lighting control for the Original Gym. Currently need to control lights through electrical panel.	13	5	72%
Add cooling to gym. Chiller has capacity to serve gym	11	7	61%
Add windscreens at baseball/softball fields fencing	11	7	61%
Upgrade Auditorium sound and lighting equipment (lighting included in line 18 above)	14	4	78%
Additional lighting needed at north school entry/bus drop-off lot– hard to see; identification signage needed?			
Instructional Technology			
Technology Equipment			
Hazardous Material Removal Allowance			
PROGRAM NEEDS			
Remodel Entry/Lobby/Administration			
Furniture			
Library Minor Renovation			
Furniture			

		*Building SF from Lakewood		183,863			
QTY	UNIT	RATE	ESCALATED RATE	SOFT COSTS	TOTAL	NOTES	
62,000	SF	\$15.00	\$17.25	\$6.04	\$1,443,825	Includes sub bases, asphalt, 1/2" track surface, removal of existing, trench drainage, Track system is BSS 1000	
5	EA	\$4,000.00	\$4,600.00	\$1,610.00	\$31,050	Assuming 5; Site lighting - poles	
2,200	SF	\$150.00	\$172.50	\$60.38	\$512,325	Based on CPS for secure office	
15	EA	\$5,000.00	\$5,750.00	\$2,012.50	\$116,438	Assuming 15 doors	
183,863	SF	\$5.00	\$5.75	\$2.01	\$1,427,237	further evaluation required - allowance	
			\$0.00	\$0.00	\$0	See program needs detailed below	
183,863	SF	\$3.50	\$4.03	\$1.41	\$999,066		
10,000	SF	\$8.00	\$9.20	\$3.22	\$124,200	Assuming 10,000 SF; Includes removal and replacement	
3,900	SF	\$150.00	\$172.50	\$60.38	\$908,213	Assuming 6 bathrooms - hard to count on plan	
1	LS	\$10,000.00	\$11,500.00	\$4,025.00	\$15,525	infill existing opening, door/hardware, paint	
5,600	SF	\$15.00	\$17.25	\$6.04	\$130,410		
37,151	SY	\$17.60	\$20.24	\$7.08	\$1,015,114	mill/replace lots and pave gravel lot	
8	EA	\$4,000.00	\$4,600.00	\$1,610.00	\$49,680	Further evaluation required	
1	LS	\$800,000.00	\$920,000.00	\$322,000.00	\$1,242,000		
57	EA	\$750.00	\$862.50	\$301.88	\$66,369	Further evaluation required. Pendant lights only. Does not include theatrical stage lighting.	
2	EA	\$62,500.00	\$71,875.00	\$25,156.25	\$194,063	Further evaluation required - based on 2500 MBH	
25	EA	\$5,000.00	\$5,750.00	\$2,012.50	\$194,063	Based on 25 doors. Further evaluation required.	
			\$0.00	\$0.00	\$0	Included in track replacement	
1	LS	\$38,650.00	\$44,447.50	\$15,556.63	\$60,004	Assumes 1100 LF to be removed & replaced	
			\$0.00	\$0.00	\$0	Further evaluation required	
1	EA	\$35,000.00	\$40,250.00	\$14,087.50	\$54,338	Further evaluation required	
			\$0.00	\$0.00	\$0	FFE?	
1	EA	\$10,000.00	\$11,500.00	\$4,025.00	\$15,525	Further evaluation required	
1	LS	\$400,000.00	\$460,000.00	\$161,000.00	\$621,000		
183,863	SF	\$0.20	\$0.23	\$0.08	\$57,089	Further evaluation required	
1	LS	\$50,000.00	\$57,500.00	\$20,125.00	\$77,625		
1	LS	\$75,000.00	\$86,250.00	\$30,187.50	\$116,438	basic scoreboard system, no video	
45,966	SF	\$8.00	\$9.20	\$3.22	\$570,895	based on 25% of building SF	
				\$0	\$0	Further evaluation required	
4	EA	\$3,000.00	\$3,450.00	\$1,207.50	\$18,630	Assumes 4 access points. Further evaluation needed.	
1	LS	\$175,000.00	\$201,250.00	\$70,437.50	\$271,688		
8	EA	\$10,000.00	\$11,500.00	\$4,025.00	\$124,200	Further evaluation required - based on split unit	
			\$0.00	\$0.00	\$0	Further evaluation required	
1	LS	\$7,500.00	\$8,625.00	\$3,018.75	\$11,644	Further evaluation required	
4,000	SF	\$25.00	\$28.75	\$10.06	\$155,250	Further evaluation required	
2,000	LF	\$20.00	\$23.00	\$8.05	\$62,100	Assuming fence posts to remain	
1	LS	\$50,000.00	\$57,500.00	\$20,125.00	\$77,625	Lighting included in line 18 above. Sound system upgrades. Does not include complete AV replacement.	
1	EA	\$30,000.00	\$34,500.00	\$12,075.00	\$46,575	Assuming 1 sign, lit	
					\$0		
					\$0		
					\$0		
2,200	SF	\$200.00			\$440,000		
1	LS	\$30,000.00			\$30,000		
4,500	SF	\$100.00			\$450,000		
1	LS	\$100,000.00			\$100,000		

BUDGET \$11,830,200

Middle School Potential Scope of Work				*Building SF from Lakewood		96,489					
Scope of Work/Description	Support	Oppose	Support %	QTY	UNIT	RATE	ESCALATED RATE	SOFT COSTS	TOTAL	NOTES	
INFRASTRUCTURE NEEDS											
There is only (1) network drop per classroom. Add network drops and updated network cabling throughout.	15	1	94%	96,489	SF	\$3.00	\$3.45	\$1.21	\$449,398		
Upgrade Network cabling throughout building	15	1	94%	96,489	SF	\$0.00	\$0.00	\$0.00	\$0.00	TBD	
Reconfigure current bus loop at front of building	12	3	80%	1	LS	\$300,000.00	\$345,000	\$120,750	\$465,750	more information needed	
Add safety/security measures at main entry and renovate office	15	0	100%	720	SF	\$150.00	\$172.50	\$60.38	\$167,670		
Repair/Renovate Existing fiberglass/skylight roofing in main entry & corridor. Leaks a lot and has been patched & repaired many times – this roof is original to the building and has visible damage from sun exposure	16	0	100%	2,784	SF	\$60.00	\$69.00	\$24.15	\$259,330	removal and replacement with metal deck and membrane roofing; assuming 6:12 slope	
Replace 4 VFD's for RTU's. Installed 1998.	15	0	100%	4	EA	\$10,000.00	\$11,500.00	\$4,025.00	\$62,100	VFD and motor replacement.	
Repair masonry crack in Gym	16	0	100%	399	LF	\$50.00	\$57.50	\$20.13	\$30,972	perimeter of gym space only (Requires Structural Engineering review)	
Replace roof and gutters	13	3	81%	87,697	SF	\$27.71	\$31.87	\$11.16	\$3,773,374	excludes vaulted roof & skylight	
Updated building control system to new Building Management System	16	0	100%	96,489	SF	\$6.00	\$6.90	\$2.42	\$898,795.04	need more info	
Bathrooms – upgrade finishes, new partitions	11	5	69%	2,000	SF	\$150.00	\$172.50	\$60.38	\$465,750	further evaluation required	
Replace HVAC chiller & tower.	14	2	88%	240	Tons	\$1,800.00	\$2,070.00	\$724.50	\$670,680	further evaluation required	
Replace one existing boiler	15	1	94%	2,500	MBH	\$25.00	\$28.75	\$10.06	\$97,031	further evaluation required	
Replace CHW pumps and VFD's	15	0	100%	4	EA	\$20,000.00	\$23,000.00	\$8,050.00	\$124,200	10 HP pumps - further evaluation required	
Would like exterior lighting controls to be updated. Existing are old time clocks.	15	1	94%	1	LS	\$5,000.00	\$5,750.00	\$2,012.50	\$7,763	further evaluation required	
Replace Acoustical ceiling due to roof water/leaks	15	1	94%	1	LS	\$50,000.00	\$57,500.00	\$20,125.00	\$77,625	allowance - further evaluation required	
Replace 2-way valves on RTU's	15	0	100%	5	EA	\$1,500.00	\$1,725.00	\$603.75	\$11,644	further evaluation required	
Replace Carpet throughout building.	13	3	81%	24,122	SF	\$8.00	\$9.20	\$3.22	\$299,598	based on 25% of building SF	
Replace Gym sound system	13	3	81%	1	LS	\$30,000.00	\$34,500.00	\$12,075.00	\$46,575	further evaluation required	
Add new benches, picnic tables, possible outdoor learning space with covering	9	7	56%				\$0.00	\$0.00	\$0	further evaluation required	
Replace existing lighting controls in corridors - Upgrade to sensor control to match other areas of the building.	16	0	100%	96,489	SF	\$0.40	\$0.46	\$0.16	\$59,920	further evaluation required	
New playground for 5th graders	8	8	50%	1	LS		\$0.00	\$0.00	\$250,000	allowance - further evaluation required	
Replace Gym bleachers motors	15	1	94%	1	LS	\$35,000.00	\$40,250.00	\$14,087.50	\$54,338	further evaluation required	
Upgrade Little league infield	9	7	56%				\$0.00	\$0.00	\$0	further evaluation required	
Mill & resurface parking lots/drives	15	1	94%				\$0.00	\$0.00	\$0	further evaluation required	
Replace fire alarm system				96,489	SF	\$3.50	\$4.03	\$1.41	\$524,297		
Instructional Technology				2,000	SF	\$100.00			\$200,000		
Technology Equipment				1	LS	\$100,000.00			\$100,000		
Hazardous Material Removal Allowance									\$0	N/A, Based on year the building was constructed	
PROGRAM NEEDS											
Remodel Entry/Lobby/Administration				3,000	SF	\$200.00			\$600,000		
Furniture				1	LS	\$50,000.00			\$50,000		
Library Minor Renovation				5,300	SF	\$100.00			\$530,000		
Furniture				1	LS	\$100,000.00			\$100,000		

BUDGET \$10,376,809

Elementary School Potential Scope of Work				*Building SF from Lakewood		54962					
Scope of Work/Description	Support	Oppose	Support %	QTY	UNIT	RATE	ESCALATED RATE	SOFT COSTS	TOTAL	NOTES	
INFRASTRUCTURE NEEDS											
Replace storm cleanout in interior wall. Backs up and overflows into hallway	16	0	100%	1	LS	\$30,000.00	\$34,500.00	\$12,075.00	\$46,575	Demo floor, new piping	
Replace concrete/sidewalk entrance at SW corner of building. Concrete slopes toward building and heavy rain floods into building	16	0	100%	70	SF	\$48.96	\$56.31	\$19.71	\$5,321	removal & replacement of ~70SF of concrete. 15LF drain & cover	
Create new drive/entrance from M50. Current issues with parent pick up/drop off – cars loop around small staff parking lot and backup on Washington	15	1	94%	1	LS	\$750,000.00	\$862,500.00	\$301,875.00	\$1,164,375	Summary includes estimate for new parking lots and drive	
Replace Chiller and tower (1998)	16	0	100%	1	LS	\$275,000.00	\$316,250.00	\$110,687.50	\$426,938	assuming 150 tons	
Replace Fire Alarm system	16	0	100%	54,962	SF	\$3.50	\$4.03	\$1.41	\$298,650		
Issues with existing front entrance and ADA requirements				150	SF	\$206.67	\$237.67	\$83.18	\$48,128	floor modifications, finishes, removal of portion on wall to accommodate wider doors	
Replace/repair sections of roof due to drainage/overflow issues	16	0	100%	54,962	SF	\$4.00	\$4.60	\$1.61	\$341,314	more information needed	
Install additional cameras/surveillance on interior and exterior	15	1	94%	10	EA	\$2,500.00	\$2,875.00	\$1,006.25	\$38,813	further evaluation required	
Add exterior signage/building identification	13	3	81%	1	LS	\$40,000.00	\$46,000.00	\$16,100.00	\$62,100	exterior and interior signage	
Replace corridor and classroom carpet	13	3	81%	27,481	SF	\$8.00	\$9.20	\$3.22	\$341,314	based on 50% of building SF	
Upgrade Playground equipment	13	3	81%	1	LS		\$0.00	\$0.00	\$250,000	allowance - further evaluation required	
Replace operable partition at Stage in Cafeteria	13	3	81%	1	EA	\$20,000.00	\$23,000.00	\$8,050.00	\$31,050	further evaluation required; assumes 30'Wx10'H	
Upgrade Media Center HVAC system	15	1	94%	1	LS	\$150,000.00	\$172,500.00	\$60,375.00	\$232,875	further evaluation required	
Create a Maker space/STEM Room for collaboration; arts & music spaces	13	3	81%				\$0.00	\$0.00	\$0	further evaluation required	
Replace 2 existing boilers				2	EA	\$62,500.00	\$71,875.00	\$25,156.25	\$194,063	further evaluation required - based on 2500 MBH	
Instructional Technology							\$0.00	\$0.00	\$0		
Technology Equipment							\$0.00	\$0.00	\$0		
PROGRAM NEEDS											
Remodel Entry/Lobby/Administration				2,000	SF	\$150.00	\$172.50	\$60.38	\$465,750		
Furniture				1	LS	\$50,000.00			\$50,000		
Library Minor Renovation				3,200	SF	\$100.00			\$320,000		
Furniture				1	LS	\$100,000.00			\$100,000		
Cafeteria Minor Renovation				2,000	SF	\$100.00			\$200,000		
Stage Renovation				650	SF	\$200.00			\$130,000		
									BUDGET	\$4,747,264	

ECC Potential Scope of Work				*Building SF from Lakewood 40,366						
Scope of Work/Description	Support	Oppose	Support %	QTY	UNIT	RATE	ESCALATED RATE	SOFT COSTS	TOTAL	NOTES
INFRASTRUCTURE NEEDS										
Replace Playground equipment (not age appropriate and in need of replacement)	11	5	69%							
Repair/replace roof	7	9	44%	40,366	SF	\$26.00	\$29.90	\$10.47	\$1,629,374	more information needed
Parking lot asphalt replacement	8	8	50%	3,747	SY	\$44.77	\$51.48	\$18.02	\$260,423	mill & re-surface: \$85,829
Replace Classroom unit ventilator condensers (partial, not entire building)	9	7	56%	10	EA	\$25,000.00	\$28,750.00	\$10,062.50	\$388,125	more information needed
Bathroom – possible new fixtures, finishes, partitions	7	9	44%	1,500	SF	\$250.00	\$287.50	\$100.63	\$582,188	
Replace classroom windows (not functional, no screens) (potentially a safety issue)	8	8	50%	1	LS	\$343,600.00	\$395,140.00	\$138,299.00	\$533,439	more information needed
Upgrade Access Control system	9	7	56%	15	EA	\$5,000.00	\$5,750.00	\$2,012.50	\$116,438	Assumes 10 doors
Modify Sloped floor/ramp into gym space. (steep and may benefit from wall handrail)	8	8	50%	10	LF	\$160.00	\$184.00	\$64.40	\$2,484	handrail only
Upgrade Ceiling in seating area of gym (poor condition)	7	9	44%	1	LS	\$15,000.00	\$17,250.00	\$6,037.50	\$23,288	
Upgrade Gym 2 old AHU's mounted high in steel. They are noisy and belt-driven.	7	9	44%	2	LS	\$50,000.00	\$57,500.00	\$20,125.00	\$155,250	further evaluation needed
Add VFD's to HVAC equipment	8	8	50%	2	LS	\$5,000.00	\$5,750.00	\$2,012.50	\$15,525	
Upgrade fire alarm system				40,366	SF	\$3.50	\$162,473.15	\$56,865.60	\$219,339	
Replace 2 existing boilers.				2	EA	\$62,500.00	\$143,750.00	\$50,312.50	\$194,063	further evaluation needed - based on 2500 MBH ea.
Instructional Technology										
Technology Equipment										
Hazardous Material Removal Allowance										
PROGRAM NEEDS										
Renovate Gym & Re-purpose Bleachers				1	LS				\$ 200,000	more information needed
Library Minor Renovation										
Furniture				5,300	SF	\$200.00			\$1,060,000	
				2,000	SF	\$100.00			\$200,000	
				1	LS	\$100,000.00			\$100,000	
BUDGET									\$5,757,558	

Maintenance Building Potential Scope of Work				BUDGET						
Scope of Work/Description	Support	Oppose	Support %	QTY	UNIT	RATE	ESCALATED RATE	SOFT COSTS	TOTAL	NOTES
Pave Parking lot										includes removal of existing lot, reuse of sand sub base, new 8" 21 AA, new SD asphalt, striping/markings
Replace exterior and interior doors and hardware	9	9	50%	3,747	SY	\$44.77	\$51.48	\$18.02	\$260,423	
Replace roof	11	7	61%	10	EA	\$2,500.00	\$2,875.00	\$1,006.25	\$38,813	assuming 10 doors
Instructional Technology				8,548	SF	\$29.50	\$33.93	\$11.87	\$391,488	includes removal of existing ballasted roof, new ballasted roof, coping
Technology Equipment										
Hazardous Material Removal Allowance										
BUDGET									\$690,723	

Bus Garage Potential Scope of Work										
Scope of Work/Description	Support	Oppose	Support %	QTY	UNIT	RATE	ESCALATED RATE	SOFT COSTS	TOTAL	NOTES
Connect existing building to the district's network	13	5	72%	3,500	SF	\$5.00	\$5.75	\$2.01	\$20,125	more info needed
Pave parking lot	11	7	61%	7,239	SY	\$5.50	\$6.33	\$2.21	\$61,812	Regrade existing lot and add 4" gravel 50% of lot
Upgrade bathroom	12	6	67%	1	LS	\$25,000.00	\$28,750.00	\$10,062.50	\$38,813	Reno Existing; See Cost for new PEMB Bus Garage for new
Replace exterior walls, windows, doors, roof	9	9	50%	1	LS	\$100,000.00	\$115,000.00	\$40,250.00	\$155,250	Reno Existing; See Cost for new PEMB Bus Garage for new
Add security & fencing around bus garage/parking lot	10	8	56%	1,200	LF	\$53.00	\$60.95	\$21.33	\$98,739	includes 2 motor operated gates; 6'H fence
Replace building concrete floor due to slope issues	10	8	56%	3,500	SF	\$10.00	\$11.50	\$4.03	\$54,338	Reno Existing; See Cost for new PEMB Bus Garage for new
Replace building heating system	10	8	56%	3,500	SF	\$20.00	\$23.00	\$8.05	\$108,675	new heaters, no cooling
Instructional Technology										
Technology Equipment										
Hazardous Material Removal Allowance										
BUDGET									\$537,751	

Misc. Projects/Opportunities										
Scope of Work/Description	Support	Oppose	Support %	QTY	UNIT	RATE	ESCALATED RATE	SOFT COSTS	TOTAL	NOTES
Purchase New Buses (Quantity TBD)	16	2	89%	15	EA	\$90,000.00	\$0.00	\$0.00	\$1,350,000	
Demo Storage Building adjacent to Bus Garage	18	0	100%	4,800	SF	\$7.00	\$8.05	\$2.82	\$52,164	
Build New ECC/Administration Building				55,000	SF				\$22,825,000	
Build new bus garage/office/canopy for buses at Main Campus. (garage to have bus lifts for maintenance). Demo/re-purpose existing bus garage	18	0	100%							See Summary Sheet
Build new Early Childhood Center at Main Campus. Demo/re-purpose existing building.	17	1	94%							See Summary Sheet
Add bus fueling station at bus garage	7	11	39%						\$ 270,000	
Relocate Maintenance Services to Main Campus (include with new Bus Garage). Demo existing building	16	2	89%							See Summary Sheet

APPENDIX H

PROJECT STEERING

COMMITTEE MEETING #4



2022 Bond Program Steering Committee Work Session

Wednesday, January 26, 2022



Today:

- Group Expectations
- Big Ideas
- Pre-bond Timeline
- New Design Concepts
- Review Potential Scope & Develop Bond Program
- Next Steps



Steering Committee Expectations

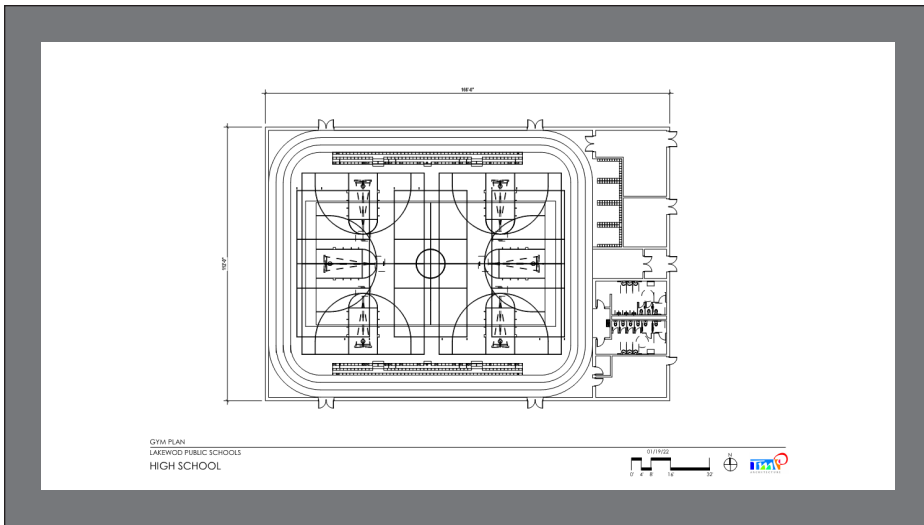
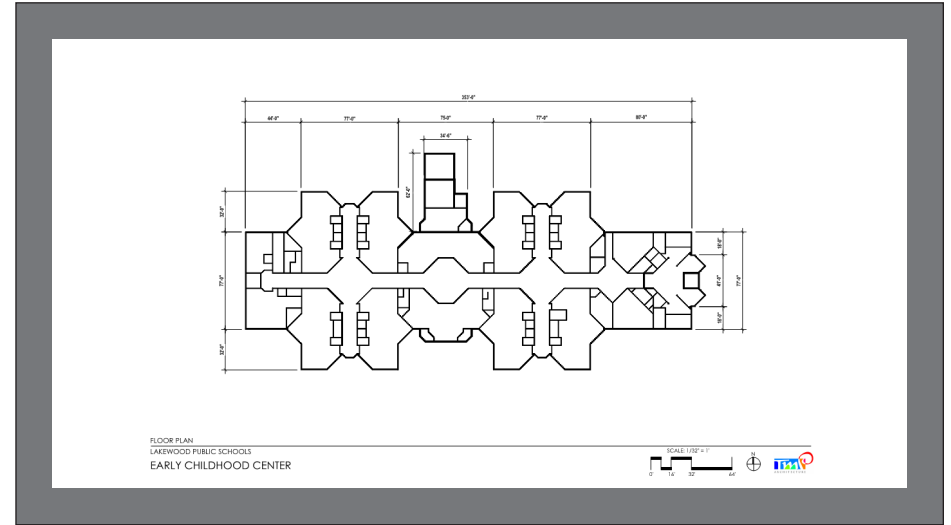
- Presume the Positive
 - Ideas, Effort, and Outcome
- Remain open minded
 - Engage in “The Why”
- All Ideas are Welcome
 - But, not all ideas will make the final project list
- Stay Involved



Bond Theme “Big Ideas”

- ❖ Safety and Security
- ❖ Competitive Advantage
- ❖ Good Stewards of the Public’s Money





January 26, 2022

**Lakewood Public Schools - 2022 Bond Program
Prioritized Scope of Work & Budget**

Buildings/Projects	Budget	
High School Scope of Work		
Infrastructure Needs	\$ 10,410,200	
Program Needs	\$ 1,020,000	\$ 11,830,200
Middle School Scope of Work		
Infrastructure Needs	\$ 9,096,800	
Program Needs	\$ 1,280,000	\$ 10,376,800
Elementary Scope of Work		
Infrastructure Needs	\$ 3,481,514	
Program Needs	\$ 1,285,750	\$ 4,747,264
ECC - New 40,000 SF Building/Parking/Drives (\$415/SF)	\$ 16,600,000	
Administration Building New Entrance/Renovation (new entrance, roof replacement, etc.)	\$ 1,000,000	
Bus Garage - New 5,000 SF Garage & 12,000 SF Canopy (includes demolition of existing bus garage)	\$ 4,800,000	
Demolition of ECC/Maintenance Buildings/Parking/Drives	\$ 500,000	
Elementary School Multi-purpose Addition (6,000 SF)	\$ 2,250,000	
Band/Choir/Auditorium (Theater) Improvements	\$ 500,000	
Field House - New 18,652 SF Building at main campus	\$ 7,438,800	
Technology re-fresh (two series)	\$ 500,000	
P.E.	\$ 360,000	
Elementary School new drives/parking	\$ 821,100	
	\$ 61,722,172	

Soft costs (35%) and escalation (15%) included in the above indicated budgets

Summary of Estimated Soft Costs	
Architect	1.5%
Owner/Arch. Costs	1.0%
All Fees	2.0%
CM Fees	3.0%
CM Staffing	4.0%
General Contract	3.0%
Construction Contingency	10.0%
Design Contingency	3.0%
Subcontractors	2.0%
SOFT COST TOTAL	36%



Thank You!

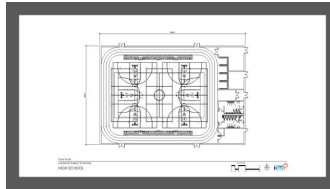


APPENDIX I

BOARD OF EDUCATION

PRESENTATION #2

- Steering Committee Meeting on Wednesday, January 26
 - New graphics and cost estimates of potential projects were presented for the committee's consideration
 - Prioritization of scope of work and budget



January 26, 2022


Lakewood Public Schools - 2022 Bond Program
Prioritized Scope of Work & Budget

Buildings/Projects	Budget	
High School Scope of Work		
Infrastructure Needs	\$10,810,200	\$11,830,200
Program Needs	\$ 1,020,000	
Middle School Scope of Work		
Infrastructure Needs	\$ 9,098,809	\$10,378,809
Program Needs	\$ 1,280,000	
Elementary Scope of Work		
Infrastructure Needs	\$ 3,481,514	\$ 4,747,294
Program Needs	\$ 1,265,750	
ECC - New 40,000 SF Building/Parking/Drives (3415 SF)	\$18,900,000	
Administration Building New Entrance/Renovation	\$ 1,000,000	
Bus Garage - New 5,000 SF Garage & 12,000 SF Canopy	\$ 4,800,000	
Demolition of ECC/Maintenance Buildings/Parking/Drives	\$ 500,000	
Elementary School Multi-purpose Addition (6,000 SF)	\$ 2,250,000	
Demolition of Storage Building adjacent to Bus Garage	\$ 52,164	
Band/Chorus/Activities (Theater) Improvements	\$ 500,000	
Field House - New 18,552 SF Building at main campus	\$ 7,438,800	
Technology re-fresh (two series)	\$ 500,000	
Books	\$ 350,000	
FFE	\$ 360,000	
Elementary School new drives/parking	\$63,124,338	

- Steering Committee Meeting on Wednesday, February 9
 - Committee members met for a final evaluation of the bond program components and cost estimates consideration
 - Preparation for the Recommendation to the School Board on February 28


APPENDIX J

**COMMUNITY DINNER &
DISCUSSION**



2022 Bond Program Dinner & Discussion

February 17, 2022




STRATEGIC PLAN 3-5 YEAR TARGETS & GOALS

OUR CORE VALUES
RESPECT. RESPONSIBILITY. SAFETY.
EXCELLENCE. TRUST. COMMUNITY.

VISION
As a community we will: Educate, Empower, and Equip our Students for Life

MISSION
Preparing Our Students for Success

PROMISE
Every Student. Every Class. Every Day.

Target 1 ACADEMICS	Target 2 CULTURE & LEARNING	Target 3 PERSONNEL & LEADERSHIP	Target 4 COMMUNICATIONS & COMMUNITY ENGAGEMENT	Target 5 OPERATIONS
Lakewood Public Schools will provide all students with individualized high-quality education.	Lakewood Public Schools will promote a positive environment to develop a social and emotionally healthy culture.	Lakewood Public Schools will collaborate with staff to provide necessary resources and support.	Lakewood Public Schools will provide clear and consistent communication to engage all students, staff and community members.	Lakewood Public Schools will fiscally and responsibly maintain and improve district-wide facilities while planning for future needs.
GOAL 1 Provide all students with a rigorous curriculum aligned to state and federal standards	GOAL 1 Continue to promote a culture of tolerance, dignity, and respect	GOAL 1 Support student well-being by recognizing and supporting staff well-being	GOAL 1 Provide resources necessary to maintain the district's commitment to high quality communication that educates and celebrates	GOAL 1 Employ financial forecasting and internal controls to maintain annual budget surpluses
GOAL 2 Use formative and summative assessments as student data to continuously improve curriculum, instruction, and identify academic support	GOAL 2 Ensure that student can identify a trusted adult and likewise, confirm that every student is personally known by at least one professional in their school	GOAL 2 Develop a coordinated professional learning plan that includes additional time for teacher collaboration (e.g. to reflect, to inquire, to research, to implement, to evaluate) and is education-driven whenever possible	GOAL 2 Implement common instructional and communication platforms across classrooms and schools	GOAL 2 Successfully pass a ballot initiative to provide financial resources to maintain (and expand) school facilities, instructional resources, and student programs
GOAL 3 Develop Individual Learning Plans for students that expose them to careers from the earliest ages and prepare them for and provide access to post-secondary education to reach their career goals	GOAL 3 Develop and implement a system of Positive Behavioral Interventions and Supports that provides students greater opportunity to consistently engage in learning	GOAL 3 Develop partnerships with local colleges and universities to recruit and retain quality teachers	GOAL 3 Develop regular opportunities for students and staff to interact with parents and community members/leaders	GOAL 3 Continue to improve district technology infrastructure and device reliability to support a 1:1 program that promotes instructional use and innovation
	GOAL 4 Collaborate with community mental health, area medical providers, and neighboring universities, districts, and the IJID to leverage intellectual and monetary resources specific to trauma and mental health services (and programs)			

Team Introductions







EDUARDO BLANC,
INTL. ASSOC. AIA
Principal-in-Charge/
Project Designer



FRED J. GRUNERT,
AIA, NCARB, GGP
Project Manager



Jeff Tuley
Project Director



Amanda Goodspeed
Bond/Campaign Support

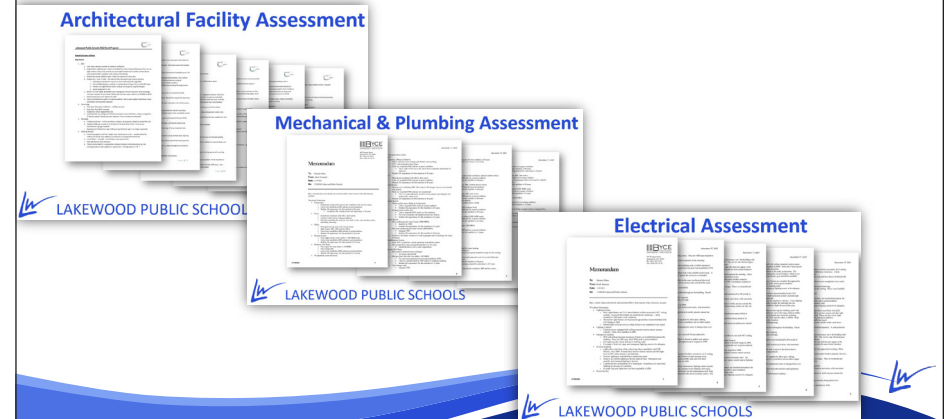
Work Done to Date

- **Last Bond Project – 2010**
- **Last Energy Upgrade – 2020**
- **Refinancing – 2021/22, Provides the opportunity to complete new bond projects without increasing the taxpayer debt millage levy**
 - S&P upgraded LPS bond rating from A to A+
 - Bond sale – January 5, 2022 (first week of 2022 – lower supply, greater demand)
 - Average interest rate reduced from 4.6% to 2.38%
 - Savings of \$1,743,942
 - Successful refinancing threshold is a net present value of savings of at least 3%. Our net present value of savings was 8.02%!
- **What's it mean?**
 - Able to raise \$64M for bond projects while maintaining a
 - Net neutral debt millage levy (no increase in debt millage for tax payers)

Work Done to Date

- **August 2021** – LPS requested Proposals for Design and Construction Management Services to assess a potential bond
- **September 2021** - LPS hired TMP Architecture & Granger Construction Company
- **October/ December 2021** - LPS, TMP, GCC, and targeted area consultants (mechanical & plumbing, electrical, civil engineering, technology, and athletics) completed Facilities Assessments identifying a potential scope of work for a bond issue

Work Done to Date - Facilities Assessment



Work Done to Date - Facilities Assessment



Facilities Assessments – Projects for Initial Consideration

- ✓ Replace roofs at all schools
- ✓ Improve parking lots and drives at all schools
- ✓ All buildings have bus/drop-off separation
- ✓ Construction of new bus garage
- ✓ Stadium artificial turf
- ✓ Stadium bleachers, fencing, sound system and new scoreboard
- ✓ Tennis court resurfacing and underdrainage
- ✓ Track replacement (end of useful life)
- ✓ Soccer field drainage issues
- ✓ There is interest in bringing the soccer field to the stadium
- ✓ Bus garage lift system for bus maintenance
- ✓ Buses
- ✓ Technology (at the backend of the bond)
- ✓ Concession/Restrooms at softball and baseball fields
- ✓ FFE (TBD)
- ✓ Gym sound system
- ✓ New sound and lighting for Auditorium
- ✓ Identify options for hands-on tech experience: automotive, carpentry/wood shop, outdoor recreation
- ✓ Permanent outdoor band instruction tower. Remove scaffolding tower

Work Done to Date – Project Steering Committee

December 2021 - LPS formed a Steering Committee whose charge is to:

- Review the Facilities Assessments and Projects for Initial Consideration
- Identify additional projects not initially identified in the Facilities Assessments
- Prioritize projects so as to remain within the dollars available through refinancing and maintaining a net neutral debt millage position for taxpayers
- **Develop a recommendation for the Board of Education regarding the scope of the project**



Steering Committee Members



- | | |
|--------------------|---|
| Matt Aldrich | Instruction, Athletics, Parent |
| Mike Beach | Technology, Parent |
| Pam Behling | Finance |
| Keith Carpenter | LES Principal |
| Nick Chase | Operations/Maintenance, Parent |
| Lauren Christensen | LMS Principal |
| Chris Duits | Athletics, Parent, Community |
| Jodi Duits | Curriculum, Instruction, Assessment, Parent |
| Duane Geiger | Community, Arts |
| Don Hoaglin | LECC Principal |
| Matt Markwart | Instruction, Athletics, Parent |
| Tammy Marriott | Instruction |
| Adam Noaeill | Instruction, Arts |
| Mike Quinn | Assistant Principal/Athletics |
| Frank Pytlowany | (Former) Board of Education, Community |
| Steve Skalka | Superintendent |
| Darin Weller | Board of Education |
| Steve Williams | LHS Principal |



Project Steering Committee – Guiding Principles

To develop a recommendation for the Board of Education regarding the scope of the projects included in the bond proposal, the Project Steering Committee established these Guiding Principles:

School Safety and Security

- Create safer facilities and environments for students and staff

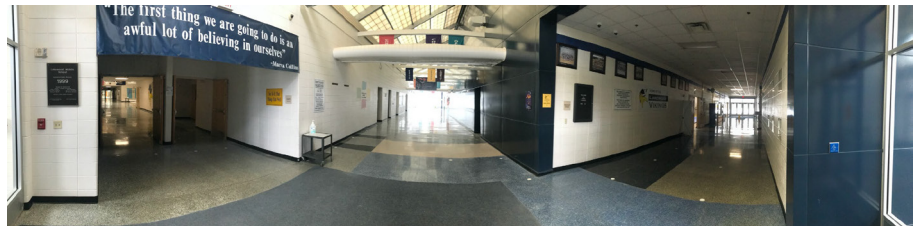


Project Steering Committee – Guiding Principles

To develop a recommendation for the Board of Education regarding the scope of the projects included in the bond proposal, the Project Steering Committee established these Guiding Principles:

School Safety and Security

- Create safer facilities and environments for students and staff



Project Steering Committee – Guiding Principles

To develop a recommendation for the Board of Education regarding the scope of the projects included in the bond proposal, the Project Steering Committee established these Guiding Principles:

Competitive Advantage

- For students, provide them programs and experiences that make it more likely they will be successful while in school and it post-secondary education opportunities and employment
- For the community, provide facilities and programs that serve existing residents AND attract new families to the District

Fiscal Responsibility

- Completing "big ticket" preventative maintenance (roofs, parking lots, etc.) before they become even more expensive and take dollars away from student programs
- Operate facilities that meet community needs while also providing opportunity to generate revenue



2022 Bond Program

Potential Scope of Work Budget



Program Assessment

How facilities contribute to academic, athletic, and arts programs and offerings by

- Identifying existing underutilized spaces that can be renovated, or creating new spaces, for:
 - Collaboration
 - Exploration
 - Innovation
 - Inquiry
 - Teamwork
 - Hands-on Experiences
 - Presentation
 - Competition
 - Performance



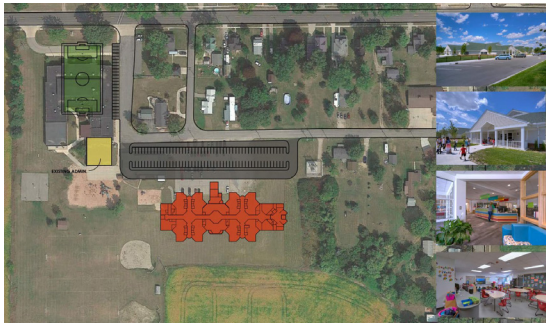
Program Assessment - Early Childhood Center



- Renovate Gym & Re-purpose Bleaches
5,300sf
- Library Minor Renovation & New Furniture
2,000sf

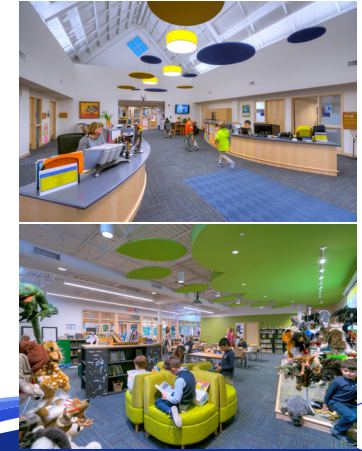
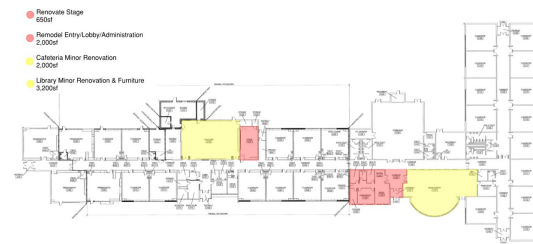


Administration - New Early Childhood Center



- Current building doesn't meet the needs of Early Childhood education or the community. Current students are 4 and 5 year-olds in a building originally built for ages 5 to 18.
- Community need for additional infant, toddler, 3-year old, and am/pm childcare programs
- Cost, including unknown/unexpected costs, of renovating a significantly older building versus the cost of new building

Program Assessment – Elementary School



Elementary School Site

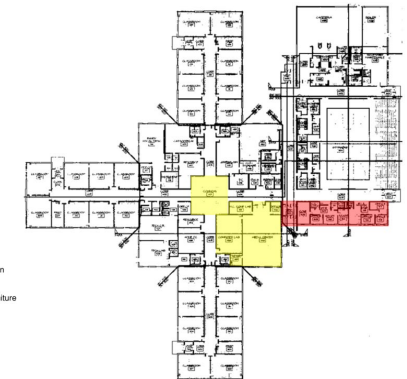


- New multi-purpose room addition provides opportunities for:
 - elementary physical education instruction in a gym setting rather than the cafeteria
 - large group instruction space for entire grade levels
 - after-school and evening community meeting space
- Reconfigured and larger parking areas to alleviate traffic backup on Washington Ave during drop off and pick up times

Program Assessment – Middle School



- Remodel Entry Lobby & Administration 3,000sf
- Library Minor Renovation & New Furniture 5,500sf
- Commons Minor Renovation & New Furniture 2,000sf



Program Assessment – High School



● Remodel
● Renovate



High School Site



- Stadium Improvements including:
 - Track replacement
 - Artificial Turf Field
 - Soccer in the stadium
 - Host MSBOA marching band festivals
- New Field House
 - Practice facility during inclement weather
 - Youth sports practices & tournaments
 - Community fitness
- New Bus Garage

Fieldhouse

- Multi-Sport Practice Facility
- Community Fitness Center
- Youth Programs
- Walking Track

- Bathrooms
- Lockers
- Office
- Storage



Prioritized Scope of Work & Budget

High School - Facility and Program Needs	\$ 11,830,200
Middle School - Facility and Program Needs	\$ 10,376,809
Elementary - Facility and Program Needs	\$ 4,747,264
New Early Childhood Center	\$ 16,600,000
Administration Building New Entrance	\$ 1,000,000
New Bus Garage	\$ 4,800,000
Demolition of the existing ECC	\$ 500,000
Elementary School Multi-purpose Addition	\$ 2,250,000
Demolition of Storage Building adjacent to Bus Garage	\$ 52,164
Fine/Performing/Graphic Arts Remodeling	\$ 1,000,000
New Field House at HS campus	\$ 7,436,800
Technology	\$ 500,000
Buses	\$ 1,350,000
Furniture, Fixtures and Equipment	\$ 735,663
Elementary School new drives/parking	\$ 821,100
	\$ 64,000,000

Soft costs (35%) and escalation (15%) included in the budget figures

Refinancing current bond debt has provided the ability to raise \$64M while maintaining a net neutral debt millage levy – no increase in debt millage for taxpayers

2007 v 2022 Bond Proposals

A bond issue is not any different than a mortgage. The homeowner enters into a 30-year mortgage for their house and a community enters into a 30-year bond repayment plan.

In 2007, the Lakewood Community passed a \$29.255 million bond proposal to be combined with the remaining amount owed on the previous bond proposal that itself had been refinanced in 2001 to be paid in full in 2037 - 30 years.

In 2022, the Lakewood Community will be asked to pass a \$64 million bond proposal to be combined with the remaining amount owed on the previous bond proposal that itself had been refinanced in 2015 and 2022 to be paid in full in 2052 - 30 years.

2007 v 2022 Bond Proposals

An interesting aspect of the 2007 bond proposal was that it required the District to enter into the School Bond Loan Fund, taking a loan from the State on top of the bond sale to keep the debt millage at 7 mills. Repaying the interest on this loan was an additional expense within the \$29.255 million that did not go to completion of projects.

But, this proposal does not require participation in the School Bond Loan Fund to keep the debt millage at 7 mills. Therefore, there is no additional interest expenditures taking from the completion of projects.

This proposal is twice the 2007 one, but it is no different in structure than the 2007 one and it provides two much needed new facilities that makes the community a destination for new families while providing additional services for everyone from birth into retirement (a third new facility if you count the new bus garage that saves bus maintenance costs over time) **AND** it does not increase the debt millage.

Lakewood Public Schools – 2022 Bond Proposal

Safety & Security

(of our staff and students)

Competitive Advantage

(for our students and community)

Fiscal Responsibility

(no increase in millage)





THANK YOU