

WATERFORD SCHOOL DISTRICT
Regular Meeting of the Board of Education
Thursday, December 19, 2019 - 6:30 PM
A G E N D A

1. Opening – Audience participation is scheduled at the beginning and end of the agenda. Only those who want to speak on an action item and have completed a public comment card will be called upon at the beginning of the meeting. Those who have comments on non-action items and have completed a public comment card will be called upon before the conclusion of the meeting. The President of the Board is responsible for recognizing all speakers. Board packets are available on the website, www.waterford.k12.mi.us.
2. Pledge of Allegiance
3. Roll Call
4. Approval of the Agenda
5. Celebration of Learning
 - a. Holiday Performance
6. Information Item
 - a. 2020-2021 Regular Meeting Schedule
 - b. Purchase of Food Service Equipment: Kettering Coffee Shop
7. Audience Comments on Action Items
8. Approval of Minutes
 - a. December 5, 2019, Regular Meeting
 - b. December 5, 2019, Closed Session
9. Accounts Payable
 - a. October 2019
 - b. November 2019
10. School District Financial Statements
11. Support Staff Reports
12. New Business
 - a. Superintendent's Recommendations
 - (1) Recommendation 62-19-20 Relative to Resignations/Retirements/Leave of Absence Expirations
 - (2) Recommendation 63-19-20 Relative to Teaching Contract Changes/Appointments
 - (3) Recommendation 64-19-20 Relative to Administrative Appointment
 - (4) Recommendation 65-19-20 Relative to Bond Authorizing Resolution, Refunding Bonds, Series 2013
 - (5) Recommendation 66-19-20 Relative to Resolution – Section 1352 of Revised School Code, Refunding Bonds, Series 2013
 - (6) Recommendation 67-19-20 Relative to Emergency Management Plan
 - (7) Recommendation 68-19-20 Relative Resolution Approving Application for Preliminary Qualification for Bonds, 2020 Bond Election
 - (8) Recommendation 69-19-20 Relative to Resolution: Section 1352 of the Revised School Code, 2020 Bond Election
 - b. Consideration of Certain Purchases
 - (1) Recommendation 70-19-20 Relative to Schoolcraft Renovations
13. Audience Comments on Non-Action Items
14. Superintendent's Report

15. Discussion Items

a. Future Items

1. Winter Break, December 23-January 3
2. No Board Meeting Scheduled on January 2
3. Organization – Election of Officers, January 16
4. Organization – Board Appointments, January 16
5. Action – 2020-2021 Meeting Schedule, January 16

16. Board of Education Reports

17. Adjournment

CELEBRATION OF
LEARNING

WATERFORD SCHOOL DISTRICT
Board of Education
501 N. Cass Lake Road
Waterford, Michigan 48328

ITEM NO.: 5.a. Celebration of Learning

TOPIC: Holiday Performance

The Mason Jazz Band, Directed by Band Teacher Chris Braue, will perform some holiday music for our community as we prepare for our winter break.

Resource Persons: Carly Stone, Director, Curriculum, Instruction & Assessment

Date of Board of Education Meeting: December 19, 2019

WATERFORD SCHOOL DISTRICT
Board of Education
501 N. Cass Lake Road
Waterford, Michigan 48328

ITEM NO.: 6.a.	Information Item
TOPIC:	2020-2021 Board of Education Meeting Schedule

It is recommended that Regular Meetings of the Waterford Board of Education be scheduled per the list below, on the first and third Thursday of each month, with exceptions. Board meetings will be held at 6:30 PM at the Waterford Township Hall Auditorium, 5200 Civic Center Drive, Waterford, Michigan, unless posted otherwise.

2020-2021

- | | |
|--|--|
| *July 2, 2020
*August 6, 2020
September 3, 2020
October 1, 2020
November 5, 2020
December 3, 2020
*January 7, 2021
February 4, 2021
March 4, 2021
*April 1, 2021
May 6, 2021
June 3, 2021 | July 16, 2020
August 20, 2020
September 17, 2020
October 15, 2020
November 19, 2020
December 17, 2020
January 21, 2021
February 18, 2021
March 18, 2021
April 15, 2021
May 20, 2021
June 17, 2021 |
|--|--|

****No Meeting Scheduled***

Resource Person: Scott A. Lindberg, Superintendent of Schools
Date of Board of Education Meeting: December 19, 2019

WATERFORD SCHOOL DISTRICT
Board of Education
501 N. Cass Lake Road
Waterford, Michigan 48328

ITEM NO.:	6.b.	Information Item
TOPIC:		Food Service Equipment – Kettering Coffee Shop

Waterford School District Administration is seeking a proposal for the purchase of equipment to create a coffee shop/serving line at Kettering HS. Items being purchased include hot/cold food holding units, stainless steel custom pieces to design the serving line, and a coffee/latte machine.

Stafford Smith participates in the Wayne RESA CoPro+ (Collaborative Procurement) bid process that reduces costs for goods and services by eliminating the time and effort to process bids and leveraging the usage of school districts, county governments and municipalities statewide.

Funding Source: Food Service Fund, Coffee/Latte Machine (United Dairy Industry of Michigan)

Resource Persons: William Holbrook, Assistant Superintendent, Business & Operations
Amy Dagenhardt, Director of Finance & Budget
Samantha Mozdierz, Director of Nutrition and Purchasing Services

Date of Meeting: December 19, 2019

WATERFORD BOARD OF EDUCATION – MINUTES

Regular Meeting
December 5, 2019

OPENING

The Regular Meeting of the Waterford School District Board of Education, held at the Waterford Township Hall Auditorium, 5200 Civic Center Drive, Waterford, Michigan, was called to order by President Piggott at 6:30 PM.

PLEDGE

The audience joined the Board of Education in the Pledge of Allegiance.

ROLL CALL

Present: Members Josselyn, Piggott, Ristich, Sutherland, Halls, Petrusha and Torres
Absent: None
Others: Scott Lindberg, Bill Holbrook, Amy Dagenhardt, Nadine Milostan, Carly Stone, Lisa McFee, Kelly Allen, Mary Craite, Ashley Gray, Kayla Gerhardt, Devian Johnson, Ann Kaschner, Grant Smith, Kelly Suchanek, Alison Upleger, Stacy Wright and others not registered.

APPROVAL OF THE AGENDA

The agenda was approved as presented.

WATERFORD HERO

We are excited to recognize Mott student Devian Johnson as a Waterford Hero! Devian is a truly a remarkable young man. Not only is he a 3-sport athlete, he is involved in 6 school groups; all in which he holds a leadership position. These groups include- Student Section Leader, Commissioner of the Link Crew – a mentorship program for freshman, Co-President of the Students for Environmental Actions Club, Public Relations Leader for Student Council, Public Relations Committee Leader National Honor Society, and PPI mediator. He is a PR liaison for the school community and earned a Youth Assistance scholarship for his focus on volunteerism in the community. Devian extends his passion for leading outside the school as well. He has volunteered with youth athletics, at a local business, and in a local youth group. Devian does all of this with a smile and maintains a 3.6 weighted GPA (3.42 unweighted). On the court or course or track, Devian is the largest supporter for his team. His positive energy and sportsmanship infiltrates his teammates and even opponents. He is the first to congratulate whomever is deserving, and the first to come to someone's aide. His work ethic alone makes him a true respected captain on his teams. Every athletic program needs a student-athlete with Devian's personality, passion, poise, character, work ethic, and kindness. He is simply extraordinary. Congratulations Devian and thank you for being a Waterford Hero!

CELEBRATIONS OF LEARNING

a. Behavior Intervention Plan

Ashley Gray, Behavior Interventionist, shared information on Waterford School District's Behavior Intervention Plan

INFORMATION ITEM

a. Strategic Planning Process

Data-based Strategic Planning establishes priorities, focuses energy and resources, strengthens operations and ensures all stakeholders are working toward the achievement of common goals for the District. Debbie Stair, Associate Director of Leadership Development, MASB, presented an overview of the fundamentals of the process, including the role of the Board of Education.

b. Head Start Reports

The OLHSA Governing Body, Policy Council, Delegate School Board and Delegate Policy Committee must use ongoing monitoring results, data on programmatic and school readiness goals and other information described in the Head Start Program Performance Standards and Head Start Act to conduct its responsibilities.

Accordingly, the Head Start Director's Report and Budget Report for October 2019 was provided for Board of Education review.

c. Schoolcraft Elementary School Remodel and Addition (Bid Pack 20-01)

The Waterford School District has requested proposals for Schoolcraft Elementary School remodel and addition, Bid Pack 20-01. A recommendation to award contracts will be presented to the Board of Education on December 19, 2019.

d. Bond Authorizing Resolution, Refunding Bonds, Series 2013 (2003 Series III)

The Board received a resolution to consider providing authorization for the School District to issue bonds not to exceed \$11,000,000 for the purpose of refinancing the Series 2013 (2003 Series III) bond issuance. A recommendation for approval will be presented on December 19, 2019.

e. Resolution: Section 1352 of Revised School Code, Refunding Bonds, Series 2013 (2003 Series III)

A resolution was presented which would enable the School District to comply with the provision of Section 1352 of the Revised School Code with respect to contracting for legal representation by a law firm for the School District's issuance of its School District Refunding Bonds, Series 2013 (2003 Series III). Dickinson-Wright, PLLC is the District's legal counsel for this bond issuance and works in conjunction with the District financial advisor, MFCI. A recommendation for approval will be presented at the December 19, 2019, Regular Meeting.

8. CLOSED SESSION

Moved by Member Sutherland and supported by Member Josselyn that the Board of Education move the Closed Session later in the meeting, following item 14 on the agenda.

Ayes: Members Sutherland, Josselyn, Petrusha, Halls, Torres, Ristich and Piggott

Nays: None

Motion passed. (7-0)

AUDIENCE COMMENTS ON ACTION ITEMS

There were no audience comments on action items.

APPROVAL OF MINUTES

Moved by Member Halls and supported by Member Josselyn that the Board of Education approve the minutes of the November 7, 2019, Regular Meeting and November 21, 2019, Study Session.

Ayes: Members Halls, Sutherland, Petrusha, Ristich, Josselyn, Torres and Piggott

Nays: None

Motion carried. (7-0)

NEW BUSINESS

a. Superintendent's Recommendations

1. Recommendation 58-19-20 Relative to Resignations/Retirements/Leave of Absence Expirations

Moved by Member Halls and supported by Member Josselyn that the Board of Education accept the following resignations:

Allison, Deborah – Teacher
Beaumont Elementary School
Resignation
Effective: November 26, 2019

Ross, Jacqueline – Teacher
Beaumont Elementary School
Resignation
Effective: November 26, 2019

Amen, Kaitlyn – Teacher
Mott High School
Resignation
Effective: November 26, 2019

Ayes: Members Halls, Sutherland, Petrusha, Ristich, Josselyn, Torres and Piggott

Nays: None

Motion carried. (7-0)

2. Recommendation 59-19-20 Relative to Teaching Contract Changes/Appointments

Moved by Member Halls and supported by Member Josselyn that the Board of Education approve the following teaching contract changes/appointments for the 2019-2020 school year.

Engel, Lisa – Teacher
Beaumont Elementary School
100% Probationary Contract
Effective: November 25, 2019

Totten, Jeffrey – Special Education Teacher
Beaumont Elementary School
100% Probationary Contract
Effective: November 25, 2019

Thompson, Teresa – Teacher
Beaumont Elementary School
100% Probationary Contract
Effective: November 18, 2019

Ayes: Members Halls, Sutherland, Petrusha, Ristich, Josselyn, Torres and Piggott

Nays: None

Motion carried. (7-0)

NEW BUSINESS

b. Superintendent's Recommendations

3. Recommendation 60-19-20 Relative to 2020-2021 Schools of Choice Resolution

Moved by Member Halls and supported by Member Petrusha that the Board of Education approve the following 2020-2021 Schools of Choice Resolution:

WHEREAS, the Waterford Board of Education has the option permitted by section 105 of the State School Aide Act of 1979, as amended by Public Act 300 of 1998; and

WHEREAS, it has the option, for purposes of sections 105 and 105c, to accept applications of nonresident students from outside the District, who reside in the Oakland Intermediate School District and/or a contiguous intermediate school district, which this district is a constituent district for the enrollment in our district for the 2020-2021 school year; and

WHEREAS, the Waterford School District has the option to operate a Schools of Choice Program in the Waterford School District for second semester in compliance with the statutory requirements of Section 105 and 105c; and

WHEREAS, the Waterford School District has outstanding school programs and there may be room for students from other districts to participate in these high quality schools, now therefore be it

RESOLVED, the Waterford School District chooses to participate in the aforementioned Schools of Choice Program for 2020-2021; and

BE IT FURTHER RESOLVED, that the Waterford School District will accept applications for the 2020-2021 school year for the Kindergarten grade level (Section 105) and up to twenty (20) students entering grades 9-12 and accepted into the Waterford STEM Academy through the application process based on available seats (Section 105).

Ayes: Members Halls, Sutherland, Petrusha, Ristich, Josselyn, Torres and Piggott

Nays: None

Motion carried. (7-0)

4. Recommendation 61-19-20 Relative to Resolution: International Academy Governance Structure

Moved by Member Halls and supported by Member Josselyn that the Board of Education approve the attached resolution relative to the International Governance Structure as approved by the Joint Steering Committee.

Ayes: Members Halls, Sutherland, Petrusha, Ristich, Josselyn and Piggott

Nays: Member Torres

Motion carried. (6-1)

AUDIENCE COMMENTS ON NON-ACTION ITEMS

Art Welch addressed the Board of Education regarding the International Academy and the All Night Grad Party.

SUPERINTENDENT'S REPORT

Superintendent Lindberg spoke about the Mary Lou Simmons Performing Arts Experience, as well as the Kettering Collage and Mott Holiday Showcase.

DISCUSSION ITEMS

- a. Future Items
- COL – Holiday Performance
 - Information – 2020-2021 Regular Meeting Schedule
 - Action – Bond Authorizing Resolution
 - Action – Resolution – Section 1352 of RSC
 - Action – Emergency Management Plan

- b. Board of Education Reports

Member Sutherland spoke about the holiday concerts at the secondary schools and the holiday events at the elementary schools. She also discussed the OCSBA meeting she attended with members Halls and Josselyn regarding opioid use and vaping, Empty Bowls event, Waterford Foundation and the Mary Lou Simmons Endowment.

Member Torres talked about the Cooley Watch DOGS program and the Township Christmas tree lighting.

Member Halls reported on the exceptional performance of *Newsies* and the upcoming community concert.

Member Josselyn spoke about parent involvement in activity funds.

Member Piggott addressed audience comments and outlined the financial transactions of the ANG Party.

CLOSED SESSION

The School Safety Package of legislation was encompassed in a series of Senate Bills and House Bills that were enacted during the 2018 Lame Duck sessions. Public Act 436 of 2018 (SB 983) states that by January 1, 2020, each school district shall develop an Emergency Operations Plan for each school building and shall adopt by majority vote of members serving on the board at a public meeting held in accordance with the Open Meetings Act (OMA).

Public Act 467 of 2018 was also included in the School Safety Package of legislation, amending the OMA to add a new permissible reason to go into closed session. A school board may now meet in closed session to consider security planning to address existing threats or prevent potential threats to the safety of the students and staff.

As such, at 7:58 PM, President Piggott moved that the Board of Education will recess to closed session to discuss the Emergency Operations Plan. A recommendation to approve the Emergency Operations Plan will be presented on December 19, 2019.

Roll Call Vote: Petrusha (Yes), Sutherland (Yes), Piggott (Yes), Torres (Yes), Josselyn (Yes), Halls (Yes) and Ristich (Yes)

RECONVENE/ADJOURNMENT

The Regular Meeting was reconvened and adjourned by President Piggott at 8:48 PM.

A video recording of the regular meeting is on file with the official minutes.

Secretary, Board of Education

/mr

WATERFORD SCHOOL DISTRICT
Board of Education
501 North Cass Lake Road
Waterford, MI 48328

ITEM NO:	
TOPIC:	ACCOUNTS PAYABLE FOR OCTOBER 2019

RECOMMENDATION: It is recommended that the Board of Education approve the Check/Electronic Funds Transfer Register for the month of October 2019 as listed on pages 1-278, and the P-Card Account Statement listed on the last three pages.

EXPENDITURES BY DISBURSEMENT TYPE:

1. ACCOUNTS PAYABLE (CHECKS)

General Fund/Pooled Cash	\$ 2,350,707.21
Special Ed Center Program	20,394.15
Community Service Fund	68,644.46
Food Service Fund	470,962.52
Capital Projects: 2016 Series II	7,871,551.28
Capital Projects: 2016 Series III	-
Capital Projects: 2016 Series IV	872,407.65
Student Activity	-
TOTAL ACCOUNTS PAYABLE	<u>\$ 11,654,667.27</u>

2. PAYMENTS BY WIRE OR ACH:

10/1/2019	Edustaff Contracted Substitutes/Staff	566.40
10/2/2019	5/3 Bank Food Service Bankcard Credit Fees	3,382.59
10/2/2019	5/3 Bank Merchant Bankcard Credit Fees	264.81
10/2/2019	Authnet Gateway Billing	32.00
10/3/2019	Food Service PayPal Payment Fees	310.30
10/4/2019	Food Service Meal Magic Fees	342.12
10/4/2019	Edustaff Contracted Substitutes/Staff	5,485.35
10/7/2019	5/3 Bank Child Care SafeSave Bankcard Credit Fees	1,293.47
10/8/2019	ArbiterPay	3,500.00
10/8/2019	Office of Retirement Services Payroll 9/27/19	61,439.75
10/8/2019	Office of Retirement Services Payroll 9/27/19	666,077.99
10/9/2019	5/3 Bank Food Service ACH-MPS Billing	814.75
10/9/2019	5/3 Bank Merchant ACH-MPS Billing	115.80
10/11/2019	Edustaff Contracted Substitutes/Staff	86,286.32
10/11/2019	Huntington Bank Wire - Admin Fees	3,425.00
10/16/2019	ArbiterPay	2,000.00
10/18/2019	Edustaff Contracted Substitutes/Staff	3,519.75
10/23/2019	Office of Retirement Service Payroll 10/11/19	61,428.87
10/23/2019	Office of Retirement Service Payroll 10/11/19	687,657.51
10/25/2019	Edustaff Contracted Substitutes/Staff	109,534.26
10/25/2019	Huntington Bank Wires - Principal Debt Pmts	2,321,968.76
10/28/2019	5/3 Bank Purchasing Cards - Sept Expenses	11,434.15
TOTAL WIRES OR ACH		<u>\$ 4,030,879.95</u>

TOTAL DISBURSEMENTS FOR OCTOBER 2019

\$ 15,685,547.22

RATIONALE: Invoices have been processed by Accounts Payable and Purchasing per requisitions submitted by various departments.

BUDGETARY INFORMATION: All within prescribed budget allocations.

EXHIBITS: Attached Schedule.

RESOURCE PERSON(S): William Holbrook, CPA, Assistant Superintendent of Business and Operations
Amy Dagenhardt, Director of Finance & Budget
Samantha Mozdzierz, Director of Nutrition & Purchasing Services

Date of Board of Education Meeting: December 19, 2019

WATERFORD SCHOOL DISTRICT
Board of Education
501 North Cass Lake Road
Waterford, MI 48328

ITEM NO:	
TOPIC:	ACCOUNTS PAYABLE FOR NOVEMBER 2019

RECOMMENDATION: It is recommended that the Board of Education approve the Check/Electronic Funds Transfer Register for the month of November 2019 as listed on pages 1-167, and the P-Card Account Statement listed on the last three pages.

EXPENDITURES BY DISBURSEMENT TYPE:

1. ACCOUNTS PAYABLE (CHECKS)

General Fund/Pooled Cash	\$ 2,111,377.58
Special Ed Center Program	22,426.40
Community Service Fund	32,068.17
Food Service Fund	236,962.14
Capital Projects: 2016 Series II	-
Capital Projects: 2016 Series III	2,593,535.74
Capital Projects: 2016 Series IV	-
Student Activity	-
TOTAL ACCOUNTS PAYABLE	\$ 4,996,370.03

2. PAYMENTS BY WIRE OR ACH:

11/1/2019	Edustaff Contracted Substitutes/Staff	3,519.75
11/4/2019	Food Service Business Tax Payment	319.68
11/4/2019	5/3 Bank Food Service Bankcard Credit Fees	3,187.13
11/4/2019	5/3 Bank Merchant Bankcard Credit Fees	575.93
11/4/2019	5/3 Bank Child Care SafeSave Bankcard Credit Fees	1,602.88
11/5/2019	Office of Retirement Services Payroll 10/25/19	64,563.29
11/5/2019	Office of Retirement Services Payroll 10/25/19	716,399.31
11/5/2019	Food Service PayPal Payment Fees	289.40
11/7/2019	Food Service Meal Magic Fees	317.52
11/8/2019	Edustaff Contracted Substitutes/Staff	149,690.56
11/12/2019	ArbiterPay	3,000.00
11/12/2019	5/3 Bank Food Service ACH-MPS Billing	756.82
11/12/2019	5/3 Bank Merchant ACH-MPS Billing	191.29
11/14/2019	ArbiterPay	3,000.00
11/15/2019	Edustaff Contracted Substitutes/Staff	3,519.75
11/19/2019	Office of Retirement Service Payroll 11/08/19	61,469.46
11/19/2019	Office of Retirement Service Payroll 11/08/19	709,549.70
11/22/2019	Edustaff Contracted Substitutes/Staff	71,545.96
11/25/2019	Universal Service Admin Co - ERATE	9,951.94
11/26/2019	5/3 Bank Purchasing Cards - Oct Expenses	14,126.69
11/29/2019	Edustaff Contracted Substitutes/Staff	3,519.75

TOTAL WIRES OR ACH

	\$ 1,821,096.81
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TOTAL DISBURSEMENTS NOVEMBER 2019

	\$ 6,817,466.84
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RATIONALE: Invoices have been processed by Accounts Payable and Purchasing per requisitions submitted by various departments.

BUDGETARY INFORMATION: All within prescribed budget allocations.

EXHIBITS: Attached Schedule.

RESOURCE PERSON(S): William Holbrook, CPA, Assistant Superintendent of Business and Operations
Amy Dagenhardt, Director of Finance & Budget
Samantha Mozdierz, Director of Nutrition & Purchasing Services

Date of Board of Education Meeting: December 19, 2019

**WATERFORD SCHOOL DISTRICT
STATEMENT OF REVENUES AND EXPENDITURES
GENERAL FUND
FOR THE FOUR MONTHS ENDED OCTOBER 2019**

<u>REVENUE</u>	<u>BUDGET</u>	<u>ACTUAL PLUS ENCUMBRANCE</u>	<u>PERCENT OF BUDGET</u>
LOCAL			
PROPERTY	\$ 12,186,415	\$ 9,638,875	79.1%
OTHER	<u>1,885,495</u>	<u>485,248</u>	<u>25.7%</u>
TOTAL	14,071,910	10,124,123	71.9%
STATE			
MEMBERSHIP AID	51,674,928	9,961,376	19.3%
CATEGORICAL AID	<u>18,303,115</u>	<u>3,528,291</u>	<u>19.3%</u>
TOTAL	69,978,043	13,489,667	19.3%
FEDERAL	6,641,093	1,347,529	20.3%
INCOMING TRANSFER	<u>6,001,801</u>	<u>2,000,600</u>	<u>33.3%</u>
TOTAL REVENUE	\$ 96,692,847	\$ 26,961,919	27.9%
 <u>EXPENDITURES</u>			
INSTRUCTION:			
ELEMENTARY	\$ 9,163,372	\$ 1,779,772	19.4%
MIDDLE SCHOOL	4,512,001	874,433	19.4%
HIGH SCHOOL	6,723,830	1,380,683	20.5%
SUMMER SCHOOL	19,574	20,000	102.2%
EARLY CHILDHOOD	1,752,394	359,937	20.5%
SPECIAL ED	11,079,562	2,188,174	19.7%
COMP ED	3,213,936	601,940	18.7%
VOC ED	<u>937,231</u>	<u>175,706</u>	<u>18.7%</u>
TOTAL INSTRUCTION	37,401,900	7,380,645	19.7%
SUPPORT SERVICE:			
PUPIL SERVICE	7,375,788	1,467,868	19.9%
INSTR STAFF	2,231,343	646,803	29.0%
GENERAL ADM	1,337,914	424,557	31.7%
SCHOOL ADM	3,757,637	1,147,486	30.5%
BUSINESS	10,626,894	4,893,510	46.0%
CENTRAL	<u>24,370,870</u>	<u>8,205,878</u>	<u>33.7%</u>
TOTAL SUPPORT	49,700,446	16,786,102	33.8%
OTHER:			
ATHLETICS	1,364,798	324,187	23.8%
COMMUNITY SERVICE	101,984	27,932	27.4%
FEDERAL PROGRAMS	7,034,172	1,427,288	20.3%
DEBT	1,078,000	1,011,225	93.8%
TEACHER RETIREMENT SAVINGS	(300,000)	(100,000)	33.3%
INTERFUND TRANSFERS	<u>305,303</u>	<u>101,768</u>	<u>33.3%</u>
TOTAL OTHER	<u>9,584,257</u>	<u>2,792,400</u>	<u>29.1%</u>
TOTAL EXPENDITURES	\$ 96,686,603	\$ 26,959,147	27.9%
REV. OVER/(UNDER) EXP.	<u>\$ 6,244</u>	<u>\$ 2,772</u>	

**WATERFORD SCHOOL DISTRICT
STATEMENT OF REVENUES AND EXPENDITURES
GENERAL FUND
FOR THE FIVE MONTHS ENDED NOVEMBER 2019**

<u>REVENUE</u>	<u>BUDGET</u>	<u>ACTUAL PLUS ENCUMBRANCE</u>	<u>PERCENT OF BUDGET</u>
LOCAL			
PROPERTY	\$ 12,186,415	\$ 9,714,038	79.7%
OTHER	<u>1,885,495</u>	<u>627,019</u>	<u>33.3%</u>
TOTAL	14,071,910	10,341,057	73.5%
STATE			
MEMBERSHIP AID	51,674,928	14,220,940	27.5%
CATEGORICAL AID	<u>18,303,115</u>	<u>5,037,017</u>	<u>27.5%</u>
TOTAL	69,978,043	19,257,957	27.5%
FEDERAL	6,641,093	1,732,597	26.1%
INCOMING TRANSFER	<u>6,001,801</u>	<u>2,500,750</u>	<u>41.7%</u>
TOTAL REVENUE	\$ 96,692,847	\$ 33,832,361	35.0%
<u>EXPENDITURES</u>			
INSTRUCTION:			
ELEMENTARY	\$ 9,163,372	\$ 2,525,621	27.6%
MIDDLE SCHOOL	4,512,001	1,216,220	27.0%
HIGH SCHOOL	6,723,830	1,893,988	28.2%
SUMMER SCHOOL	19,574	20,000	102.2%
EARLY CHILDHOOD	1,752,394	519,459	29.6%
SPECIAL ED	11,079,562	3,018,858	27.2%
COMP ED	3,213,936	810,585	25.2%
VOC ED	<u>937,231</u>	<u>240,476</u>	<u>25.7%</u>
TOTAL INSTRUCTION	37,401,900	10,245,207	27.4%
SUPPORT SERVICE:			
PUPIL SERVICE	7,375,788	2,015,254	27.3%
INSTR STAFF	2,231,343	772,684	34.6%
GENERAL ADM	1,337,914	496,541	37.1%
SCHOOL ADM	3,757,637	1,476,792	39.3%
BUSINESS	10,626,894	5,668,810	53.3%
CENTRAL	<u>24,370,870</u>	<u>9,701,843</u>	<u>39.8%</u>
TOTAL SUPPORT	49,700,446	20,131,924	40.5%
OTHER:			
ATHLETICS	1,364,798	571,748	41.9%
COMMUNITY SERVICE	101,984	32,368	31.7%
FEDERAL PROGRAMS	7,034,172	1,835,147	26.1%
DEBT	1,078,000	1,011,225	93.8%
TEACHER RETIREMENT SAVINGS	(300,000)	(125,000)	41.7%
INTERFUND TRANSFERS	<u>305,303</u>	<u>127,210</u>	<u>41.7%</u>
TOTAL OTHER	<u>9,584,257</u>	<u>3,452,698</u>	<u>36.0%</u>
TOTAL EXPENDITURES	\$ 96,686,603	\$ 33,829,829	35.0%
REV. OVER/(UNDER) EXP.	<u>\$ 6,244</u>	<u>\$ 2,532</u>	

**WATERFORD SCHOOL DISTRICT
SUPPORT STAFF REPORT
NOVEMBER 2019**

CONTRACT CHANGES/RESIGNATIONS **Non Affiliated Employee "NAE" formerly WFSP/Blue Book**

<p>Benedict-Lowe, Nancy – Bus Aide Paraprofessional (NAE) Transportation Resignation Effective: October 16, 2019</p>	<p>Schiller, Kenneth – Facilities Maintenance (MESPA III) Maintenance Resignation Effective: October 25, 2019</p>
<p>Birrell, Laurence – Bus Driver (MESPA III) Transportation Effective: October 28, 2019</p>	<p>Sell, Derek – Custodial Engineer (MESPA III) Kurzman-Crary Campus Resignation Effective: October 23, 2019</p>
<p>Carter, Ashlee – Paraprofessional Special Ed (NAE) Houghton Elementary School Resignation Effective: October 18, 2019</p>	<p>Smith, Shay – Paraprofessional Special Ed (NAE) Schoolcraft Elementary School Resignation Effective: October 7, 2019</p>
<p>Emmans, Kelly – Building Support (NAE) Schoolcraft Elementary School Resignation Effective: October 1, 2019</p>	<p>Stempien, Mary – Paraprofessional Special Ed (NAE) Lifetracks Resignation Effective: October 18, 2019</p>
<p>Glass, Maria – Paraprofessional Special Ed (NAE) Schoolcraft Elementary School Resignation Effective: October 16, 2019</p>	<p>Ybarra, Yolanda – Paraprofessional Special Ed (NAE) Mason Middle School Resignation Effective: October 8, 2019</p>
<p>Lasko, Lisa – Food Service Assistant (MESPA III) Riverside Elementary School Resignation Effective: October 8, 2019</p>	
<p>Leath, Cloraine – Paraprofessional (NAE) Mason Middle School Resignation Effective: October 25, 2019</p>	
<p>Lewis, Cynthia – Child Care Coordinator (NAE) Leggett Preschool Resignation Effective: October 18, 2019</p>	
<p>Marengere, Alicia – Child Care Assistant (NAE) Leggett Preschool Resignation Effective: October 31, 2019</p>	
<p>Prater, Tracy – Child Care Assistant (NAE) Leggett Preschool Resignation Effective: October 4, 2019</p>	
<p>Roberson, Nathaniel – Bus Driver Trainee (NAE) Transportation Resignation Effective: October 17, 2019</p>	

CONTRACT CHANGES/APPOINTMENTS **Non Affiliated Employee "NAE" formerly WFSP/Blue Book**

Atkinson, Brandy – Building Support (NAE) Grayson Elementary School Effective: October 15, 2019	Lively, Katherine – Paraprofessional Special Ed (NAE) Grayson Elementary School Effective: October 14, 2019
Birrell, Laurence – Bus Driver (MESPA III) Transportation Effective: October 28, 2019	Mann, Carol – Building Support (NAE) Schoolcraft Elementary School Effective: October 21, 2019
Black, Becki – Building Support (NAE) Beaumont Elementary School Effective: October 30, 2019	Mersino, Jill – GSRP Noon Assistant (NAE) Stepanski Early Childhood Center Effective: October 3, 2019
Brewer, Tara – Bus Aide Paraprofessional (NAE) Transportation Effective: October 25, 2019	Mitchell, Cortney – Building Support (NAE) Houghton Elementary School Effective: October 9, 2019
Brown, Alexandra – Paraprofessional Special Ed (NAE) Mason Middle School Effective: October 23, 2019	Moriarty, William – Facilities Maintenance (MESPA III) Maintenance Effective: October 28, 2019
Burns, Terence – CTE Technician (NAE) Mott High School Effective: October 21, 2019	Outen, Bryant – Building Support (NAE) Donelson Hills Elementary School Effective: October 7, 2019
Childress, Teri – Building Support (NAE) Donelson Hills Elementary School Effective: October 7, 2019	Petrusha, Sarah – Child Care Assistant (NAE) Schoolcraft Elementary School Effective: October 23, 2019
Drossart, Dezmond – Paraprofessional Special Ed (NAE) Mott High School Effective: October 31, 2019	Picorelli, Iris – Building Support (NAE) Donelson Hills Elementary School Effective: October 25, 2019
Getter, Viola – Food Service Assistant (MESPA III) Multiple Effective: October 28, 2019	Robertson, Rachael – Food Service Assistant (MESPA III) Multiple Effective: October 28, 2019
Glass, Maria – Paraprofessional Special Ed (NAE) Schoolcraft Elementary School Effective: October 14, 2019	Roth, Emily – Paraprofessional Special Ed (NAE) Pierce Middle School Effective: October 7, 2019
Hughes, Krista – Secretary (MESPA I) Knudsen Elementary School Effective: October 7, 2019	Rowe, Ana – Parent Resource Assistant (NAE) Multiple Buildings Effective: October 14, 2019
Hughes Samantha – Paraprofessional & Building Support (NAE) Cooley Elementary School Effective: October 10, 2019	Seng, Nicole – Bus Driver Trainee (NAE) Transportation Effective: October 21, 2019
Leavell, Kecia – Paraprofessional Special Ed (NAE) Pierce Middle School Effective: October 1, 2019	Sturdevant, Cheryl – Building Support (NAE) Cooley Elementary School Effective: October 30, 2019

Upleger, Alison – Behavior Support Specialist (NAE)
Multiple Buildings
Effective: October 7, 2019

Vileo, Stephen – Paraprofessional Special Ed (NAE)
Lifetracks
Effective: October 29, 2019

VonDeisenroth, Ian – Custodial Engineer (MESPA III)
Mott High School
Effective: October 1, 2019

Wallace, Katelyn – Paraprofessional Special Ed (NAE)
Stepanski Early Childhood Center
Effective: October 1, 2019

Young, Megan – Food Service Assistant (MESPA III)
Multiple
Effective: October 17, 2019

**WATERFORD SCHOOL DISTRICT
SUPPORT STAFF REPORT
DECEMBER 2019**

CONTRACT CHANGES/RESIGNATIONS **Non Affiliated Employee "NAE" formerly WFSP/Blue Book**

Conner, Melissa – Bus Aide Paraprofessional (NAE)
Transportation
Resignation Effective: November 1, 2019

Grosvenor, Cassandra – Bus Driver (MESPA III)
Transportation
Resignation Effective: November 19, 2019

Heckert, Alexis – Paraprofessional Special Ed (NAE)
Donelson Hills Elementary School
Resignation Effective: November 8, 2019

Hope, Samuel – Bus Aide Paraprofessional (NAE)
Transportation
Resignation Effective: November 19, 2019

Miller, Michele – Food Service Assistant (MESPA III)
Senior Center
Resignation Effective: November 8, 2019

Pittaway, Bonnie – Bus Driver Relief/Sub (NAE)
Transportation
Resignation Effective: November 19, 2019

Ptak, Kelly – Child Care Assistant (NAE)
Knudsen Elementary School
Resignation Effective: November 26, 2019

Rabideau, Caroline – Library Technician (MESPA II)
Pierce Middle School & Kettering High School
Resignation Effective: November 5, 2019

Riley, Matthew – Bus Driver (MESPA III)
Transportation
Resignation Effective: November 19, 2019

Wall, Tehlia – Student Worker (Non Union)
Pool and Fitness Center
Resignation Effective: November 30, 2019

Wilhelm, Jennifer – Child Care Assistant (NAE)
Stepanski Early Childhood Center
Effective: November 8, 2019

CONTRACT CHANGES/APPOINTMENTS **Non Affiliated Employee "NAE" formerly WFSP/Blue Book**

Darling, Barb – Child Care Coordinator (NAE) Knudsen Elementary School Effective: November 20, 2019	Santiago, Kecelyn – Paraprofessional Special Ed (NAE) Haviland Elementary School Effective: November 4, 2019
Dutton, Dorothy – Bus Aide Paraprofessional (NAE) Transportation Effective: November 11, 2019	Schroeder, Tamera – Paraprofessional Special Ed (NAE) Schoolcraft Elementary School Effective: November 12, 2019
Fougner, Kristine – Food Service Assistant (MESPA III) Senior Center Effective: November 12, 2019	Snider, Emma – Senior Center Assistant (NAE) Senior Center Effective: November 13, 2019
Frantz, Jarred – Engineer (MESPA II) Kurzman-Crary Campus Effective: November 18, 2019	Zudell, Rick – Bus Driver Trainee (NAE) Transportation Effective: November 25, 2019
Garcia, Diana – Food Service Assistant (MESPA III) Cooley Elementary School Effective: November 4, 2019	
Hayes, Andria – Building Support (NAE) Haviland Elementary School Effective: November 6, 2019	
Makuch, Shawn – Secretary 12 month/8 Hour (MESPA I) Kurzman-Crary Campus Effective: November 11, 2019	
Mayo, Janet – Paraprofessional Special Ed (NAE) Donelson Hills Elementary School Effective: November 22, 2019	
Mehaffy, Kalie – Library Technician (MESPA II) Pierce Middle School & Kettering High School Effective: November 8, 2019	
Opdenhoff, Corine – Paraprofessional Special Ed (NAE) Stepanski Early Childhood Center Effective: November 20, 2019	
Poe, Audrey – Food Service Assistant (MESPA III) Durant High School Effective: November 18, 2019	
Reynolds, Victorina – Building Support (NAE) Donelson Hills Elementary School Effective: November 4, 2019	

Resource Person(s): Janet McLeod, Director of Human Resources

Date of Board of Education Meeting: December 19, 2019

WATERFORD SCHOOL DISTRICT
Board of Education
501 N Cass Lake Road
Waterford, Michigan 48328

ITEM NO.: 12.a.(1) NEW BUSINESS
Superintendent's Recommendation 62-19-20
TOPIC : Retirements/Resignations/Leave of Absence Expirations

It is recommended that the Board of Education accept the following resignation(s)/retirement(s):

Benham, Melissa – Teacher
Riverside Elementary School
Resignation
Effective: December 12, 2019

Morris, Rhonda – Special Education Teacher
Knudsen Elementary School
Resignation
Effective: November 27, 2019

Potter, Amanda – Social Worker
Mott High School
Resignation
Effective: December 13, 2019

Resource Person(s): Janet McLeod, Director of Human Resources

Date of Board of Education Meeting: December 19, 2019

ACTION

WATERFORD SCHOOL DISTRICT
Board of Education
501 N Cass Lake Road
Waterford, Michigan 48328

ITEM NO.: 12.a.(2) NEW BUSINESS
Superintendent's Recommendation 63-19-20
TOPIC: Teaching Contract Changes/Appointments

It is recommended that the Board of Education approve the following teaching contract changes and appointments for the 2019-2020 school year:

Teregan, Paige – Special Education Teacher
Haviland Elementary School
Probationary Contract
Effective: January 6, 2020

Resource Person(s): Janet McLeod, Director of Human Resources

Date of Board of Education Meeting: December 19, 2019

WATERFORD SCHOOL DISTRICT
Board of Education
501 N Cass Lake Road
Waterford, Michigan 48328

ITEM NO.: 12.a.(3) NEW BUSINESS
Superintendent's Recommendation 64-19-20
TOPIC : Administrative Contract Changes and Appointments

It is recommended that the Board of Education approve the following administrative appointment for the 2019-2020 school year:

Appointments/Changes:

Howard, Lisa – Director, Payroll
100% Administrator Contract
Effective: January 1, 2020

Replacing: Jenny McKay

Resource Person(s): Janet McLeod, Director, Human Resources

Date of Board of Education Meeting: December 19, 2019

WATERFORD SCHOOL DISTRICT
Board of Education
501 N. Cass Lake Rd
Waterford, MI 48328

ITEM NO: 12.a.(4)	NEW BUSINESS Superintendent's Recommendation 65-19-20
TOPIC:	Bond Authorizing Resolution School District Refunding Bonds, Series 2013 (2003 Series III)

The attached resolution provides for authorization, by the Board of Education, for the School District to issue bonds not to exceed \$9,750,000 for the purpose of refinancing the Series 2013 (2003 Series III) bond issuance.

Resource Persons: William Holbrook, Assistant Superintendent Business and Operations
Amy Dagenhardt, Director of Finance & Budget

Date of Board of Education Meeting: December 19, 2019

RESOLUTION TO AUTHORIZE THE ISSUANCE
OF REFUNDING BONDS NOT TO EXCEED \$9,750,000

At a regular meeting of the Board of Education of the Waterford School District, County of Oakland, Michigan (the "Board"), held on the 19th day of December, 2019.

PRESENT: _____

ABSENT: _____

The following resolution was offered by _____ and seconded by _____:

WHEREAS, the Waterford School District (the "School District") previously issued its School District Bonds, Series 2013 (General Obligation – Unlimited Tax), dated as of May 1, 2013, in the aggregate principal amount of \$20,000,000 (the "Prior Bonds"); and

WHEREAS, the Prior Bonds remain outstanding in various principal amounts, and the School District has been advised that certain of the Prior Bonds could be redeemed and thereby secure savings for the School District; and

WHEREAS, Part VI of Act 34, Public Acts of Michigan, 2001, as amended ("Act 34"), authorizes the issuance of refunding bonds for the purpose of refunding all or part of the School District's outstanding securities, including the Prior Bonds; and

WHEREAS, the Board has determined that it is in the best interest of the School District to refund all or a portion of the Prior Bonds to secure savings for the School District through the issuance of such refunding bonds.

NOW, THEREFORE, BE IT RESOLVED that:

1. AUTHORIZATION OF BONDS – PURPOSE. Bonds of the School District aggregating the principal sum of not to exceed Nine Million Seven Hundred Fifty Thousand Dollars (\$9,750,000) (the "Refunding Bonds") shall be issued and sold pursuant to the provisions of Act 34, and other applicable statutory provisions, for the purpose of refunding all or such

portion of the Prior Bonds as determined by order of the Assistant Superintendent, Business & Operations of the School District (the “Authorized Officer”).

2. BOND DETAILS. The Refunding Bonds shall be designated "Refunding Bonds, Series 2020 (General Obligation – Unlimited Tax)"; shall be dated as of the date approved by order of the Authorized Officer; shall be numbered from 1 upwards; shall be fully registered; shall be in such denominations as shall be determined by order of the Authorized Officer; shall bear interest at a rate or rates as shall be determined by order of the Authorized Officer; shall be payable on such dates as shall be determined by order of the Authorized Officer; and shall be serial bonds and/or term bonds and mature on such dates and in such years as shall be determined by order of the Authorized Officer. If requested by the original purchaser of the Refunding Bonds and determined by the Authorized Officer, the Refunding Bonds may be issued in the form of a single bond with an exhibit containing the principal maturity amounts and applicable interest rates and due dates.

3. PAYMENT OF PRINCIPAL AND INTEREST. The principal of and interest on the Refunding Bonds shall be payable in lawful money of the United States. Principal shall be payable upon presentation and surrender of the Refunding Bonds to the bond registrar and paying agent as they severally mature; provided, however, if the Refunding Bonds are issued in the form of a single bond, the Authorized Officer may determine that presentation and surrender of the bond to the bond registrar and paying agent is not required for some or all principal installments and, in such case, such principal installments shall be paid to the registered owner of the bond as shown on the registration books. Interest shall be paid to the registered owner of each Refunding Bond as shown on the registration books at the close of business on the 15th day of the calendar month preceding the month in which the interest payment is due. Interest shall be paid when due by check or draft drawn upon and mailed by the bond registrar and paying agent to the registered owner at the registered address.

4. PRIOR REDEMPTION. The Refunding Bonds shall be subject to optional redemption prior to maturity upon such terms and conditions as shall be determined by order of the Authorized Officer.

5. BOOK-ENTRY SYSTEM. Initially, if requested by the original purchaser of the Refunding Bonds and determined by the Authorized Officer, one fully-registered Refunding Bond for each maturity, in the aggregate amount of such maturity, shall be issued in the name of Cede & Co., as nominee of The Depository Trust Company ("DTC") for the benefit of other parties (the "Participants") in the book-entry-only transfer system of DTC. In the event the School District determines that it is in the best interest of the School District not to continue the book-entry system of transfer or that the interests of the holders of the Refunding Bonds might be adversely affected if the book-entry system of transfer is continued, the School District may notify DTC and the bond registrar and paying agent, whereupon DTC will notify the Participants of the availability through DTC of Refunding Bond certificates. In such event, the bond registrar and paying agent shall deliver, transfer and exchange Refunding Bond certificates as requested by DTC and any Participant or "beneficial owner" in appropriate amounts in accordance with this resolution. DTC may determine to discontinue providing its services with respect to the Refunding Bonds at any time by giving notice to the School District and the bond registrar and paying agent and discharging its responsibilities with respect thereto under applicable law or the School District may determine that DTC is incapable of discharging its duties and may so advise DTC. In either such event, the School District shall use reasonable efforts to locate another securities depository. Under such circumstances (if there is no successor securities depository), the School District and the bond registrar and paying agent shall be obligated to deliver Refunding Bond certificates in accordance with the procedures established by this resolution. In the event Refunding Bond certificates are issued, the provisions of this resolution shall apply to, among other things, the transfer and exchange of such certificates and the method of payment of principal of and interest on such certificates. Whenever DTC requests the School District and the bond registrar and paying agent to do so, the School District and the bond registrar and

paying agent shall cooperate with DTC in taking appropriate action after reasonable notice to make available one or more separate certificates evidencing the Refunding Bonds to any Participant having Refunding Bonds credited to its DTC account or to arrange for another securities depository to maintain custody of certificates evidencing the Refunding Bonds.

Notwithstanding any other provision of this resolution to the contrary, so long as any Refunding Bond is registered in the name of Cede & Co., as nominee of DTC, all payments with respect to the principal of, interest on and redemption premium, if any, on such Refunding Bonds and all notices with respect to the Refunding Bonds shall be made and given, respectively, to DTC. The Authorized Officer is authorized to sign the Blanket Issuer Letter of Representations on behalf of the School District in such form as such official signing the Blanket Issuer Letter of Representations deems necessary or appropriate in order to accomplish the issuance of the Refunding Bonds in accordance with law and this resolution.

Notwithstanding any other provision of this resolution to the contrary, if the Authorized Officer deems it to be in the best interest of the School District, the Refunding Bonds shall not initially be issued through the book-entry-only transfer system of DTC.

6. BOND REGISTRAR AND PAYING AGENT. The Huntington National Bank, Grand Rapids, Michigan is hereby appointed bond registrar and paying agent for the Refunding Bonds, and the Authorized Officer may enter into an agreement with such bond registrar and paying agent. The Authorized Officer from time to time may designate, and may enter into an agreement with, a new bond registrar and paying agent for the Refunding Bonds, which shall be a bank or trust company located in the State of Michigan which is qualified to act in such capacity under the laws of the United States of America or the State of Michigan.

7. EXECUTION, AUTHENTICATION AND DELIVERY OF REFUNDING BONDS. The Refunding Bonds shall be executed in the name of the School District by the manual or facsimile signatures of the President and the Secretary of the Board and authenticated by the manual signature of the bond registrar or paying agent or an authorized representative of the bond registrar and paying agent. After the Refunding Bonds have been executed and

authenticated for delivery to the original purchaser thereof, they shall be delivered by the Authorized Officer or the Treasurer to the purchaser of the Refunding Bonds upon receipt of the purchase price. Additional Refunding Bonds bearing the manual or facsimile signatures of the President and the Secretary of the Board may be delivered to the bond registrar and paying agent for authentication and delivery in connection with the exchange or transfer of the Refunding Bonds. The bond registrar and paying agent shall indicate on each Refunding Bond the date of its authentication.

8. EXCHANGE AND TRANSFER OF BONDS. Any Refunding Bond, upon surrender thereof to the bond registrar and paying agent with a written instrument of transfer satisfactory to the bond registrar and paying agent duly executed by the registered owner or his duly authorized attorney, at the option of the registered owner thereof, may be exchanged for Refunding Bonds of any other authorized denominations of the same aggregate principal amount and maturity date and bearing the same rate of interest as the surrendered Refunding Bond.

Each Refunding Bond shall be transferable only upon the books of the School District, which shall be kept for that purpose by the bond registrar and paying agent, upon surrender of such Refunding Bond together with a written instrument of transfer satisfactory to the bond registrar and paying agent duly executed by the registered owner or his duly authorized attorney.

Upon the exchange or transfer of any Refunding Bond, the bond registrar and paying agent on behalf of the School District shall cancel the surrendered Refunding Bond and shall authenticate and deliver to the transferee a new Refunding Bond or Refunding Bonds of any authorized denomination of the same aggregate principal amount and maturity date and bearing the same rate of interest as the surrendered Refunding Bond. If, at the time the bond registrar and paying agent authenticates and delivers a new Refunding Bond pursuant to this section, payment of interest on the Refunding Bonds is in default, the bond registrar and paying agent shall endorse upon the new Refunding Bond the following: "Payment of interest on this bond is in default. The last date to which interest has been paid is _____, ____."

The School District and the bond registrar and paying agent may deem and treat the person in whose name any Refunding Bond shall be registered upon the books of the School District as the absolute owner of such Refunding Bond, whether such Refunding Bond shall be overdue or not, for the purpose of receiving payment of the principal of and interest on such Refunding Bond and for all other purposes, and all payments made to any such registered owner, or upon his order, in accordance with the provisions of section 3 of this resolution shall be valid and effectual to satisfy and discharge the liability upon such Refunding Bond to the extent of the sum or sums so paid, and neither the School District nor the bond registrar and paying agent shall be affected by any notice to the contrary. The School District agrees to indemnify and save the bond registrar and paying agent harmless from and against any and all loss, cost, charge, expense, judgment or liability incurred by it, acting in good faith and without negligence hereunder, in so treating such registered owner.

For every exchange or transfer of Refunding Bonds, the School District or the bond registrar and paying agent may make a charge sufficient to reimburse it for any tax, fee or other governmental charge required to be paid with respect to such exchange or transfer, which sum or sums shall be paid by the person requesting such exchange or transfer as a condition precedent to the exercise of the privilege of making such exchange or transfer.

The bond registrar and paying agent shall not be required to transfer or exchange Refunding Bonds or portions of Refunding Bonds that have been selected for redemption.

9. FORM OF REFUNDING BONDS. The Refunding Bonds shall be in substantially the following form:

UNITED STATES OF AMERICA

STATE OF MICHIGAN

COUNTY OF OAKLAND

WATERFORD SCHOOL DISTRICT

REFUNDING BOND, SERIES 2020

(GENERAL OBLIGATION – UNLIMITED TAX)

INTEREST RATE MATURITY DATE DATE OF ORIGINAL ISSUE CUSIP

Registered Owner:

Principal Amount:

The Waterford School District, County of Oakland, State of Michigan (the "School District"), acknowledges itself indebted to, and for value received hereby promises to pay to, the Registered Owner identified above, or registered assigns, the Principal Amount set forth above on the Maturity Date specified above, unless redeemed prior thereto as hereinafter provided, upon presentation and surrender of this bond at _____, the bond registrar and paying agent, or at such successor bond registrar and paying agent as may be designated pursuant to the Resolution (as hereinafter defined), and to pay to the Registered Owner, as shown on the registration books at the close of business on the 15th day of the calendar month preceding the month in which an interest payment is due, by check or draft drawn upon and mailed by the bond registrar and paying agent by first class mail postage prepaid to the Registered Owner at the registered address, interest on such Principal Amount from _____, _____, or such later date through which interest has been paid until the School District's obligation with respect to the payment of such Principal Amount is discharged, at the rate per annum specified above. Interest is payable on the first days of _____ and

_____ in each year, commencing on _____, 20___. Principal and interest are payable in lawful money of the United States of America. Interest shall be computed on the basis of a 360-day year of twelve 30-day months.

This bond is one of a series of bonds aggregating the principal sum of _____ Dollars (\$_____) issued by the School District under and pursuant to and in full conformity with the Constitution and Statutes of Michigan (especially Act No. 34, Public Acts of 2001, as amended) and a resolution adopted by the Board of Education of the School District on December 19, 2019 (the "Resolution"), for the purpose of refunding the School District's outstanding School District Bonds, Series 2013 (General Obligation – Unlimited Tax), dated May 1, 2013, maturing in the years ____ through _____. The full faith and credit of the School District have been pledged for the prompt payment of the principal of and interest on this bond. The School District is required to levy annually ad valorem taxes, without limitation as to rate or amount, to pay such principal and interest as the same shall become due.

This bond is transferable, as provided in the Resolution, only upon the books of the School District kept for that purpose by the bond registrar and paying agent, upon the surrender of this bond together with a written instrument of transfer satisfactory to the bond registrar and paying agent duly executed by the Registered Owner or his attorney duly authorized in writing. Upon the exchange or transfer of this bond a new bond or bonds of any authorized denomination, in the same aggregate principal amount and of the same interest rate and maturity, shall be authenticated and delivered to the transferee in exchange therefor as provided in the Resolution, and upon payment of the charges, if any, therein provided. Bonds so authenticated and delivered shall be in the denomination of \$_____ or any integral multiple thereof not exceeding the aggregate principal amount for each maturity.

The bond registrar and paying agent shall not be required to transfer or exchange bonds or portions of bonds that have been selected for redemption.

MANDATORY PRIOR REDEMPTION

Bonds maturing in the year ____ are subject to mandatory prior redemption at par and accrued interest as follows:

<u>Redemption Date</u>	<u>Principal Amount of Bonds to be Redeemed</u>
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Bonds or portions of bonds to be redeemed by mandatory redemption shall be selected by lot.

(REPEAT IF MORE THAN ONE TERM BOND)

OPTIONAL PRIOR REDEMPTION

Bonds maturing prior to _____ 1, 20__, are not subject to redemption prior to maturity. Bonds maturing on and after _____ 1, 20__, are subject to redemption prior to maturity at the option of the School District, in such order as shall be determined by the School District, at any time on and after _____ 1, 20__. Bonds of a denomination greater than \$5,000 may be partially redeemed in the amount of \$5,000 or any integral multiple thereof. If less than all of the bonds maturing in any year are to be redeemed, the bonds or portions of bonds to be redeemed shall be selected by lot. The redemption price shall be the par value of the bond or portion of the bond called to be redeemed plus interest to the date fixed for redemption.

Not less than thirty but not more than sixty days' notice of redemption shall be given to the Registered Owners of bonds called to be redeemed by mail to each Registered Owner at the registered address. Bonds or portions of bonds called for redemption shall not bear interest on and after the date fixed for redemption, provided funds are on hand with the bond registrar and paying agent to redeem the same.

It is hereby certified, recited and declared that all acts, conditions and things required to exist, happen and be performed precedent to and in the issuance of the bonds of this series,

existed, have happened and have been performed in due time, form and manner as required by law, and that the total indebtedness of the School District, including the series of bonds of which this bond is one, does not exceed any constitutional or statutory limitation.

IN WITNESS WHEREOF, the Waterford School District, County of Oakland, State of Michigan, by its Board of Education, has caused this bond to be executed in its name by the manual or facsimile signatures of the President and the Secretary of the Board of Education. This bond shall not be valid unless the Certificate of Authentication has been manually executed by the bond registrar and paying agent or an authorized representative of the bond registrar and paying agent.

WATERFORD SCHOOL DISTRICT

By: _____

Its: President

And: _____

Its: Secretary

CERTIFICATE OF AUTHENTICATION

This bond is one of the bonds described in the within mentioned Resolution.

Bond Registrar and Paying Agent

By: _____
Authorized Representative

AUTHENTICATION DATE:

ASSIGNMENT

For value received, the undersigned hereby sells, assigns and transfers unto

(please print or type name, address and taxpayer identification number of transferee) the within bond and all rights thereunder and hereby irrevocably constitutes and appoints

attorney to transfer the within bond on the books kept for registration thereof, with full power of substitution in the premises.

Dated: _____

Signature Guaranteed: _____

Signature(s) must be guaranteed by an eligible guarantor institution participating in a Securities Transfer Association recognized signature guarantee program.

10. SECURITY. There shall be levied upon all taxable property in the School District upon the tax roll for each year while any of the Refunding Bonds shall be outstanding an amount such that the estimated collections therefrom will be sufficient to pay promptly at maturity the principal and interest maturing on the Refunding Bonds prior to the time of the following year's tax collections; provided, however, that if the Refunding Bonds are qualified under the provisions of Act 92, Public Acts of Michigan, 2005, as amended ("Act 92"), and if the School District is entitled to borrow and elects to borrow money from the State of Michigan pursuant thereto for payment of the principal of or interest on the Refunding Bonds in any year, then the School District shall take all necessary proceedings to make such borrowing, and the moneys borrowed may be taken into consideration in determining the required tax levy. Taxes required to be levied to pay principal of and interest on the Refunding Bonds shall be without limitation as to rate or amount. The proceeds of such taxes (both current and delinquent) shall be deposited as collected into a debt retirement fund that shall be established and maintained for the Refunding Bonds as either a separate or a common fund as permitted by law, and until the principal of and the interest on the Refunding Bonds are paid in full, such proceeds shall be used only for payment of such principal and interest or for other authorized purposes of the fund.

11. DEBT RETIREMENT FUND. There is hereby established for the Refunding Bonds a debt retirement fund (the "Debt Retirement Fund") that shall be either a separate or a common fund as permitted by law. From the proceeds of the sale of the Refunding Bonds, there shall be set aside in the Debt Retirement Fund any accrued interest received from the purchaser at the time of delivery of the same plus any such portion of premium received from the original purchasers of the Refunding Bonds as determined by the Authorized Officer. All proceeds from taxes levied for the payment of the principal of and interest on the Refunding Bonds shall be deposited into the Debt Retirement Fund. If a separate debt retirement fund is established, the moneys deposited in the Debt Retirement Fund shall be used solely for the purpose of paying the principal of and interest on the Refunding Bonds. If a common debt retirement fund is established, the moneys deposited in the Debt Retirement Fund shall be used solely for the

payment of the principal of and interest on the Refunding Bonds and other bonds of like character of the School District payable from such common debt retirement fund.

12. PAYMENT OF COSTS OF ISSUANCE -- ESCROW FUND. The remainder of the proceeds of the Refunding Bonds shall be used to pay the costs of issuance of the Refunding Bonds and to refund the outstanding Prior Bonds maturing in the years determined by order of the Authorized Officer (the "Prior Bonds To Be Refunded"). After the costs of issuance have been paid or provided for the remaining proceeds shall be used, together with any moneys transferred by the Board from the debt retirement fund for the Prior Bonds, to establish an escrow fund (the "Escrow Fund") consisting of cash and investments in direct obligations of, or obligations the principal of and interest on which are unconditionally guaranteed by, the United States of America or other obligations the principal of and interest on which are fully secured by the foregoing and used to pay the principal of, interest on and redemption premiums, if any, on the Prior Bonds To Be Refunded. The Escrow Fund shall be held by an escrow agent (the "Escrow Agent") pursuant to an Escrow Agreement (the "Escrow Agreement"), which irrevocably shall direct the Escrow Agent to take all necessary steps to pay the principal of and interest on the Prior Bonds To Be Refunded when due and to call such Prior Bonds To Be Refunded at redemption at such time as shall be determined in the Escrow Agreement. The Authorized Officer is authorized to select the Escrow Agent and enter into the Escrow Agreement on behalf of the School District. The amounts held in the Escrow Fund shall be such that the cash and the investments and the income received on the investments will be sufficient without reinvestment to pay the principal of, interest on and redemption premiums, if any, on the Prior Bonds To Be Refunded when due at maturity or call for redemption as required by the Escrow Agreement.

13. DEFEASANCE. In the event cash or direct obligations of the United States or obligations the principal of and interest on which are guaranteed by the United States, or a combination thereof, the principal of and interest on which, without reinvestment, come due at times and in amounts sufficient to pay, at maturity or irrevocable call for earlier optional

redemption, the principal of, redemption premium, if any, and interest on all or any portion of the Refunding Bonds, shall have been deposited in trust, this resolution shall be defeased and the owners of the Refunding Bonds shall have no further rights under this resolution except to receive payment of the principal of, redemption premium, if any, and interest on the Refunding Bonds from the cash or securities deposited in trust and the interest and gains thereon and to transfer and exchange Refunding Bonds as provided herein.

14. APPROVAL OF MICHIGAN DEPARTMENT OF TREASURY. The issuance and sale of the Refunding Bonds shall be subject to the School District obtaining qualified status or prior approval from the Department of Treasury of the State of Michigan pursuant to Act 34 and, if necessary, the Authorized Officer is authorized and directed to make application to the Department of Treasury for approval to issue and sell the Refunding Bonds as provided by the terms of this resolution and by Act 34. The Authorized Officer is authorized to pay any filing fees required in connection with obtaining qualified status or prior approval from the Department of Treasury. The Authorized Officer is further authorized to request such waivers of the requirements of the Department of Treasury or Act 34 as the Authorized Officer shall determine to be necessary or desirable in connection with the sale of the Refunding Bonds.

15. QUALIFICATION OF BONDS. The Authorized Officer and the Secretary of the Board are each severally authorized to apply for final qualification of the Refunding Bonds by the Department of Treasury and to sign the Application for Final Qualification of Bonds and submit the same to the Department of Treasury for review and approval. The Authorized Officer or the Secretary of the Board is also authorized to request, as necessary or desirable, a waiver of any rule imposed by Act 92 and to take such other action necessary pursuant to Act 92 to effectuate the qualification, issuance and sale of the Refunding Bonds.

16. SALE, ISSUANCE, DELIVERY, TRANSFER AND EXCHANGE OF BONDS. Except as otherwise provided in this section, the Refunding Bonds shall be sold pursuant to a negotiated sale as hereinafter provided, and it is hereby determined that such negotiated sale is in the best interests of the School District and is calculated to provide the maximum flexibility in

pricing the Refunding Bonds so as to achieve sufficient debt service savings with respect to the Prior Bonds To Be Refunded. The Authorized Officer is authorized to negotiate a bond purchase agreement with Stifel, Nicolaus & Company, Incorporated and any co-managing or other underwriters to be selected by the Authorized Officer at or prior to the time of the sale of the Refunding Bonds (collectively, the "Underwriter"). Such bond purchase agreement shall set forth the principal amount, principal maturities and dates, interest rates and interest payment dates, redemption provisions and purchase price to be paid by the Underwriter with respect to the Refunding Bonds, as well as such other terms and provisions as the Authorized Officer determines to be necessary or appropriate in connection with the sale of the Refunding Bonds. The Prior Bonds To Be Refunded, the principal amount of the Refunding Bonds, principal maturities and dates, interest rates and interest payment dates, redemption provisions, if any, and the purchase price to be paid by the Underwriter, as well as such other terms and provisions as shall be determined by the Authorized Officer, shall be set forth in an order authorizing the sale of the Refunding Bonds to be executed by the Authorized Officer. In making the determination in the order authorizing the sale of the Refunding Bonds with respect to principal maturities and dates, interest rates, and purchase price of the Refunding Bonds, the Authorized Officer shall be limited as follows:

- a. The interest rate on the Refunding Bonds shall not exceed 6% per annum.
- b. The final maturity date of the Refunding Bonds shall not be later than May 1, 2027.
- c. The Refunding Bonds shall be sold at a price not less than 99% of the par value of the Refunding Bonds.
- d. The Underwriter's discount with respect to the Refunding Bonds shall not exceed 1% of the principal amount of the Bonds.

The President, the Secretary and the Treasurer of the Board, the Authorized Officer and other appropriate officials of the School District are authorized to do all things necessary to

effectuate the sale, issuance, delivery, transfer and exchange of the Refunding Bonds in accordance with this resolution.

17. OFFICIAL STATEMENT. The Authorized Officer is authorized to cause the preparation of an official statement for the Refunding Bonds for purposes of compliance with Rule 15c2-12 issued under the Securities Exchange Act of 1934, as amended (the "Rule") and to do all other things necessary to comply with the Rule. After the award of the Refunding Bonds, the School District will provide copies of a "final official statement" (as defined in paragraph (e)(3) of the Rule) on a timely basis and in reasonable quantity as requested by the purchasers to enable the purchasers to comply with paragraph (b)(4) of the Rule and the rules of the Municipal Securities Rulemaking Board. The Authorized Officer is authorized to enter into such agreements as may be required to enable the purchasers to comply with the Rule.

18. CONTINUING DISCLOSURE. The Authorized Officer is authorized to execute and deliver in the name and on behalf of the School District a continuing disclosure certificate to comply with the requirements for a continuing disclosure undertaking of the School District pursuant to paragraph (b)(5) of the Rule, and amendments to such certificate from time to time in accordance with the terms of such certificate (the certificate and any amendments thereto are collectively referred to herein as the "Continuing Disclosure Certificate"). The School District hereby covenants and agrees that it will comply with and carry out all of the provisions of the Continuing Disclosure Certificate.

19. REPLACEMENT OF BONDS. Upon receipt by the Authorized Officer of proof of ownership of an unmatured Refunding Bond, of satisfactory evidence that the Refunding Bond has been lost, apparently destroyed or wrongfully taken and of security or indemnity that complies with applicable law and is satisfactory to the Authorized Officer, the Authorized Officer may authorize the bond registrar and paying agent to deliver a new executed Refunding Bond to replace the Refunding Bond lost, apparently destroyed or wrongfully taken in compliance with applicable law. In the event an outstanding matured Refunding Bond is lost, apparently destroyed or wrongfully taken, the Authorized Officer may authorize the bond

registrar and paying agent to pay the Refunding Bond without presentation upon the receipt of the same documentation required for the delivery of a replacement Refunding Bond. The bond registrar and paying agent, for each new Refunding Bond delivered or paid without presentation as provided above, shall require the payment of expenses, including counsel fees, which may be incurred by the bond registrar and paying agent and the School District in the premises. Any Refunding Bond delivered pursuant to the provisions of this section in lieu of any Refunding Bond lost, apparently destroyed or wrongfully taken shall be of the same form and tenor and be secured in the same manner as the Refunding Bond in substitution for which such Refunding Bond was delivered.

20. TAX COVENANT. The School District covenants to comply with all applicable requirements of the Internal Revenue Code of 1986, as amended (the "Code"), necessary to assure that the interest on the Refunding Bonds will be and will remain excludable from gross income for federal income tax purposes. The President, the Secretary and the Treasurer of the Board, the President, the Authorized Officer and other appropriate officials of the School District are authorized to do all things necessary (including the making of such covenants of the School District as shall be appropriate) to assure that the interest on the Refunding Bonds will be and will remain excludable from gross income for federal income tax purposes.

21. BOND INSURANCE. The Authorized Officer is authorized and directed to take any actions that may be necessary or appropriate to purchase a policy or policies of municipal bond insurance with respect to the Refunding Bonds to the extent that Authorized Officer determines that the purchase of such municipal bond insurance is in the best interests of the School District. If the Authorized Officer makes such a determination, the purchase of a policy or policies and the payment of premiums therefor and the execution by the Authorized Officer of any necessary commitments with respect thereto are hereby authorized.

22. APPOINTMENTS. Dickinson Wright PLLC is hereby appointed to act as bond counsel, MFCI LLC is hereby appointed to act as financial consultant and Stifel, Nicolaus &

Company, Incorporated is hereby appointed to act as Underwriter, with respect to the Refunding Bonds.

23. CONFLICTING RESOLUTIONS. All resolutions and parts of resolutions insofar as they may be in conflict herewith are rescinded.

YEAS: _____

NAYS: _____

ABSENT: _____

RESOLUTION DECLARED ADOPTED.

STATE OF MICHIGAN)

)ss

COUNTY OF OAKLAND)

I hereby certify that I am the Secretary of the Board of Education of the Waterford School District, Oakland County, Michigan, and that the foregoing is a true and complete copy of a resolution duly adopted by the Board of Education of said School District at a regular meeting held on the 19th day of December, 2019, the original of which resolution is on file in my office. I further certify that notice of said meeting was given in accordance with the provisions of the open meetings act.

Secretary, Board of Education

Waterford School District

BLOOMFIELD 9041-43 2727481v2

WATERFORD SCHOOL DISTRICT
Board of Education
501 N. Cass Lake Rd
Waterford, MI 48328

ITEM NO: 12.a.(5)	NEW BUSINESS Superintendent's Recommendation 66-19-20
TOPIC:	Resolution – Section 1352 of Revised School Code School District Refunding Bonds, Series 2013 (2003 Series III)

The attached resolution enables the School District to comply with the provision of Section 1352 of the Revised School Code with respect to contracting for legal representation by a law firm for the School District's issuance of its School District Refunding Bonds, Series 2013 (2003 Series III).

Dickinson-Wright, PLLC is the District's legal counsel for this bond issuance and works in conjunction with the District financial advisor, MFCI.

Resource Persons: William Holbrook, Assistant Superintendent Business and Operations
Amy Dagenhardt, Director of Finance & Budget

Date of Board of Education Meeting: December 19, 2019

At a regular meeting of the Board of Education of the Waterford School District, County of Oakland, Michigan (the "Board"), held on the 19th day of December, 2019.

PRESENT: _____

ABSENT: _____

The following resolution was offered by _____ and seconded by _____:

WHEREAS, in connection with the issuance by the Waterford School District (the "School District") of its Refunding Bonds, Series 2020 (General Obligation – Unlimited Tax) (the "Bonds"), the School District's bond counsel, Dickinson Wright PLLC ("Dickinson Wright"), has advised the Board of Education of the School District (the "Board") that Section 1352 of The Revised School Code of 1976, as amended, requires that the Board request from Dickinson Wright whether it also represents the underwriters of the Bonds or any other party involved in the issuance of the Bonds; and

WHEREAS, it is anticipated that the School District will offer the Bonds for sale by means of a public offering pursuant to a bond purchase agreement negotiated with Stifel, Nicolaus & Company, Incorporated, as underwriter (the "Underwriter"); and

WHEREAS, Dickinson Wright has advised the Board that it will not represent the Underwriter, or any other party, in connection with the issuance of the Bonds, but may represent the bond registrar and paying agent for the Bonds and the Underwriter from time to time in matters unrelated to the issuance of the Bonds.

NOW, THEREFORE, BE IT RESOLVED that:

1. The Board hereby consents to entering into the contract with Dickinson Wright to serve as bond counsel for the School District notwithstanding its representation of the parties described in this resolution in connection with unrelated matters.

2. As required by Section 1352(c), Dickinson Wright shall provide the Board monthly billings that itemize time and services provided and any payments made by Dickinson Wright to third parties, if any, in connection with its representation of the Board for the sale of the Bonds.

3. The letter from Laura M. Bassett of Dickinson Wright to the Board of Education dated December 3, 2019, and this resolution shall constitute the “contract” for purposes of Section 1352.

4. All resolutions and parts of resolutions insofar as they conflict with the provisions of this resolution are hereby rescinded.

YEAS: _____

NAYS: _____
ABSENT: _____

RESOLUTION DECLARED ADOPTED.

STATE OF MICHIGAN)
)ss
COUNTY OF OAKLAND)

I hereby certify that I am the Secretary of the Board of Education of Waterford School District, Oakland County, Michigan, and that the foregoing is a true and complete copy of a resolution duly adopted by the Board of Education of said School District at a regular meeting held on the 19th day of December, 2019, the original of which resolution is on file in my office. I further certify that notice of said meeting was given in accordance with the provisions of the open meetings act.

Secretary, Board of Education
Waterford School District

WATERFORD SCHOOL DISTRICT
Board of Education
501 N. Cass Lake Road
Waterford, Michigan 48328

ITEM NO.: 12.a.(6)	NEW BUSINESS Superintendent's Recommendation 67-19-20
TOPIC:	Emergency Management Plan

The School Safety Package of legislation was encompassed in a series of Senate Bills and House Bills that were enacted during the 2018 Lamé Duck sessions. Public Act 436 of 2018 (SB 983) states that by January 1, 2020, each school district shall develop an Emergency Operations Plan for each school building and shall adopt by majority vote of members serving on the board at a public meeting held in accordance with the Open Meetings Act (OMA).

Public Act 467 of 2018 was also included in the School Safety Package of legislation, amending the OMA to add a new permissible reason to go into closed session. A school board may now meet in closed session to consider security planning to address existing threats or prevent potential threats to the safety of the students and staff.

It is recommended that the Board of Education approve the Waterford School District Emergency Management Plan, as presented in the December 5, 2019 Closed Session, in accordance with statute.

Resource Persons: William Holbrook, Assistant Superintendent, Business & Operations
James Beaver, Director of Transportation, Operations & Security

Date of Board of Education Meeting: December 19, 2019

WATERFORD SCHOOL DISTRICT
Board of Education
501 N. Cass Lake Rd
Waterford, MI 48328

ITEM NO: 12.a.(7)	NEW BUSINESS Superintendent's Recommendation 68-19-20
TOPIC:	Resolution Approving Application for Preliminary Qualification of Bonds

The attached resolution provides for authorization, by the Board of Education, to approve the Application for Preliminary Qualification of Bonds. The bonds will be sold in series not to exceed \$150,000,000.

Resource Persons: William Holbrook, Assistant Superintendent Business and Operations
Amy Dagenhardt, Director of Finance & Budget

Date of Board of Education Meeting: December 19, 2019

RESOLUTION APPROVING APPLICATION FOR
PRELIMINARY QUALIFICATION OF BONDS

At a regular meeting of the Board of Education of the Waterford School District, Oakland County, Michigan (the "School District"), held on the 19th day of December, 2019.

PRESENT: _____

ABSENT: _____

The following resolution was offered by _____ and seconded by _____:

WHEREAS, the Board of Education of the School District (the "Board") has considered the need for defraying the costs of constructing and furnishing a new Early Childhood Center; constructing, erecting, furnishing and equipping additions to and remodeling, furnishing, refurbishing, equipping and reequipping existing school buildings; constructing, equipping, developing and improving sites, including athletic fields and facilities and playgrounds; acquiring, installing and equipping instructional technology infrastructure and equipment; and upgrading and acquiring safety and security equipment, all as more completely described in the Application for Preliminary Qualification of Bonds (the "Preliminary Qualification Application"), a copy of which is on file with the Secretary of the Board; and

WHEREAS, the Board intends to request preliminary qualification from the Michigan Department of Treasury, School Bond Qualification and Loan Program ("Treasury"), for bonds to be issued by the School District, in multiple series, in the aggregate principal amount of not to exceed One Hundred Fifty Million Dollars (\$150,000,000) pursuant to a ballot proposal for the purpose of financing the projects described above and in the Preliminary Application, subject to approval by the electorate.

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF EDUCATION OF THE WATERFORD SCHOOL DISTRICT, OAKLAND COUNTY, MICHIGAN, THAT:

1. The Board shall submit the Preliminary Application to Treasury for preliminary qualification of bonds to be issued by the School District for the purpose of financing the projects described above and in the Preliminary Application, and the ballot proposition described therein.

2. The Preliminary Application shall be submitted to Treasury for action prior to the official action of the Board calling an election on the bond proposal.

3. The Board will present an application for final qualification of the bonds to Treasury after the bond proposal has been approved by the electors of the School District.

4. The Board has read the Preliminary Qualification Application to be submitted, approves of the statements and representations contained therein and declares that, to the knowledge and belief of the Board, the statements and representations are true.

5. The Secretary of the Board is authorized to sign the Preliminary Qualification Application on behalf of the School District and the administration and bond counsel for the School District are hereby authorized to submit the Preliminary Qualification Application to Treasury for review and approval.

6. Dickinson Wright is hereby appointed as bond counsel for the bonds.

7. All resolutions and parts of resolutions, insofar as they may be in conflict herewith, are hereby rescinded.

YEAS: _____

NAYS: _____

ABSENT: _____

RESOLUTION DECLARED ADOPTED.

STATE OF MICHIGAN)
)ss
COUNTY OF OAKLAND)

I hereby certify that the foregoing is a true and complete copy of a resolution duly adopted by the Board of Education at a regular meeting held on the 19th day of December, 2019, the original of which resolution is on file in my office. I further certify that notice of said meeting was given in accordance with the provisions of the Open Meetings Act, MCL 15.261 et seq., including posting of notice of the meeting at least 18 hours before the meeting in accordance with MCL 15.265.

IN WITNESS WHEREOF, I have hereunto affixed my official signature this 19th day of December, 2019.

Secretary, Board of Education
Waterford School District

WATERFORD SCHOOL DISTRICT
Board of Education
501 N. Cass Lake Rd
Waterford, MI 48328

ITEM NO: 12.a.(8)	NEW BUSINESS Superintendent's Recommendation 69-19-20
TOPIC:	Resolution – Section 1352 of Revised School Code School District Building and Site Bonds, Series 2020

The attached resolution enables the School District to comply with the provision of Section 1352 of the Revised School Code with respect to contracting for legal representation by a law firm for the School District's issuance of its School District Building and Site Bonds, Series 2020.

Dickinson-Wright, PLLC is the District's legal counsel for this bond issuance and works in conjunction with the District financial advisor, MFCl.

Resource Persons: William Holbrook, Assistant Superintendent Business and Operations
Amy Dagenhardt, Director of Finance & Budget

Date of Board of Education Meeting: December 19, 2019

At a regular meeting of the Board of Education of the Waterford School District, County of Oakland, Michigan (the "Board"), held on the 19th day of December, 2019.

PRESENT: _____

ABSENT: _____

The following resolution was offered by _____ and seconded by _____:

WHEREAS, in connection with the issuance by the Waterford School District (the "School District") of its School Building and Site Bonds, Series 2020 (General Obligation – Unlimited Tax) (the "Bonds"), the School District's bond counsel, Dickinson Wright PLLC ("Dickinson Wright"), has advised the Board of Education of the School District (the "Board") that Section 1352 of The Revised School Code of 1976, as amended, requires that the Board request from Dickinson Wright whether it also represents the underwriters of the Bonds or any other party involved in the issuance of the Bonds; and

WHEREAS, it is anticipated that the School District will offer the Bonds for sale to the public pursuant to a negotiated sale; and

WHEREAS, Dickinson Wright has advised the Board that it will not represent any underwriter of the Bonds, or any other party, in connection with the issuance of the Bonds, but may represent the bond registrar and paying agent for the Bonds and the eventual underwriters still to be selected of the Bonds from time to time in matters unrelated to the issuance of the Bonds.

NOW, THEREFORE, BE IT RESOLVED that:

1. The Board hereby consents to entering into the contract with Dickinson Wright to serve as bond counsel for the School District notwithstanding its representation of the parties described in this resolution in connection with unrelated matters.

2. As required by Section 1352(c), Dickinson Wright shall provide the Board monthly billings that itemize time and services provided and any payments made by Dickinson Wright to third parties, if any, in connection with its representation of the Board for the sale of the Bonds.

3. The letter from Laura M. Bassett of Dickinson Wright to the Board of Education dated October 28, 2019, and this resolution shall constitute the “contract” for purposes of Section 1352.

4. All resolutions and parts of resolutions insofar as they conflict with the provisions of this resolution are hereby rescinded.

YEAS: _____

NAYS: _____
ABSENT: _____

RESOLUTION DECLARED ADOPTED.

STATE OF MICHIGAN)
)ss
COUNTY OF OAKLAND)

I hereby certify that I am the Secretary of the Board of Education of Waterford School District, Oakland County, Michigan, and that the foregoing is a true and complete copy of a resolution duly adopted by the Board of Education of said School District at a regular meeting held on the 19th day of December, 2019, the original of which resolution is on file in my office. I further certify that notice of said meeting was given in accordance with the provisions of the open meetings act.

Secretary, Board of Education
Waterford School District

WATERFORD SCHOOL DISTRICT
Board of Education
501 N. Cass Lake Road
Waterford, MI 48328

ITEM NO: 12.b.(1)	NEW BUSINESS: Consideration of Certain Purchases Superintendent's Recommendation 70-19-20
TOPIC:	Contract Award: Bid Pack 20-01 Schoolcraft Elementary School Remodel and Addition

The Administration recommends the awarding of contracts for Bid Package 20-01 on the following summary of bids for Schoolcraft Elementary School Remodel and Addition:

Bid Category	Contractor	Base Bid
Selective Demolition	DKI, International Inc.	\$ 128,000
Concrete	Midtown Group, LLC	177,250
Masonry	Albaugh Masonry	679,890
Structural Steel	Heritage Contracting	228,767
Carpentry	Heritage Contracting	325,727
Metal Panels	Silverline Contracting	72,700
Roofing	Streng Construction Inc.	199,000
Aluminum Framing	Architectural Glazing	292,386
Hard Tile	Marson Enterprises	71,515
Flooring	Cohns Commercial Floor Covering, Inc.	149,895
Painting	G.M. Painting, Inc.	86,650
Gymnasium Equipment	Bareman & Associates, Inc.	22,952
Casework	Architectural Systems Group LLC	149,800
Mechanical	Contrast Mechanical, Inc.	997,000
Electrical	Livingston Power Company, LLC	655,900
Site Work	Site Development Inc	2,105,000
		\$ 6,342,432

*Included is a recommendation memo from Barton Malow and detail of all bids

Funding Source: 2016 Bond Series IV

Resource Persons: William Holbrook, Assistant Superintendent Business & Operations
John Keglovitz, Supervisor, Maintenance & Operations
Samantha Mozdierz, Director of Nutrition and Purchasing Services

Date of Board of Education Meeting: December 19, 2019

December 19, 2019

Mr. William Holbrook
Executive Director, Business and Operations
Waterford School District
501 N. Cass Lake Road
Waterford, MI 48328

Re: **Contract Award Presentation**

Bid Pack 20-01: Schoolcraft Remodel and Addition

Dear Mr. Holbrook:

Proposals were received December 3, 2019 for Bid Package 20-01. We reviewed the proposals and qualifications of each of the bidders, jointly with French Associates, Inc., and recommend contracts be awarded as follows:

<u>Category</u>	<u>Contractor</u>	<u>Amount</u>
02 4000 Demolition	DKI International, Inc.	\$128,000.00
03 3000 Foundations	Midtown Group LLC	\$177,250.00
04 0000 Masonry	Albaugh Masonry	\$679,890.00
05 0000 Structural Steel	Heritage Contracting	\$228,767.00
06 0000 Carpentry	Heritage Contracting	\$325,727.00
07 4000 Metal Wall Panels	Silverline Contracting	\$72,700.00
07 5000 Roofing	Streng Construction Inc.	\$199,000.00
08 1600 Aluminum Framing	Architectural Glazing Systems	\$292,386.00
09 3000 Hard Tile	Marson Enterprises	\$71,515.00
09 6500 Flooring	Cohns Commercial Floor Covering Inc.	\$149,895.00
09 9000 Painting	GM Painting, Inc.	\$86,650.00
11 6600 Gym Equipment	Bareman & Associates	\$22,952.00
12 3200 Casework	Architectural Systems Group LLC	\$149,800.00
22 0000 Mechanical	Contrast Mechanical, Inc.	\$997,000.00
26 0000 Electrical	Livingston Power Company, LLC	\$655,900.00
32 0000 Site Work	Site Development Inc	\$2,105,000.00
Total Award:		\$6,342,432.00

Included with this letter is a tabulation of all bids received, and a summary of recommended bidders. Note that Stark Enterprises, DGSTS, City Carpet and Flooring, and Foster Specialty Floors submitted bids which were incomplete, and therefore they are not being considered. The current projection of trade contracts after awards are complete is **\$6,342,432.00**. Please contact me should you have any questions.

Sincerely,

Larry Bukowski

Project Manager, Barton Malow Co.

Schoolcraft - Remodel and Addition - Bid Pack 20-01

Bid Tabs

Bid Category	Contractor	Base Bid
Selective Demolition	DKI, International Inc.	\$ 128,000
Selective Demolition	Blue Star, Inc.	\$ 178,000
Selective Demolition	Christman Constructors, Inc.	\$ 389,000
Concrete	Midtown Group, LLC	\$ 177,250
Concrete	McCarthy Construction Company	\$ 199,308
Concrete	Clark Construction Company	\$ 227,960
Concrete	Simone Contracting Corporation	\$ 288,400
Concrete	Graham Construction	\$ 298,000
Masonry	Albaugh Masonry	\$ 679,890
Masonry	D'Aloisio Masonry & Construction, Inc.	\$ 686,000
Masonry	Brazen & Greer, Inc.	\$ 723,100
Masonry	Leidal & Hart Mason Contractors, Inc.	\$ 739,900
Masonry	HMC Mason Contractors	\$ 794,850
Masonry	BNE	\$ 1,284,200
Structural Steel	DGSTS	\$ 5,000
Structural Steel	Heritage Contracting	\$ 228,767
Structural Steel	Davis Iron Works, Inc.	\$ 244,650
Structural Steel	Nelson Iron Works	\$ 252,000
Structural Steel	ZAK Welding & Custom Work, LLC	\$ 254,350
Structural Steel	B & A Structural Steel LLC	\$ 279,700
Carpentry	Heritage Contracting	\$ 325,727
Carpentry	City Contracting Services	\$ 344,000
Carpentry	Clark Construction Company	\$ 400,600
Carpentry	Hicks Construction Company, Inc.	\$ 406,000
Carpentry	Graham Construction	\$ 571,000
Carpentry	E and L Construction Group	\$ 809,460
Metal Panels	Silverline Contracting	\$ 72,700
Metal Panels	Streng Construction Inc.	\$ 83,000
Roofing	Streng Construction Inc.	\$ 199,000
Roofing	LaDuke Roofing and Sheetmetal	\$ 259,650
Roofing	Silverline Contracting	\$ 309,700
Roofing	Quality Roofing	\$ 389,664
Aluminum Framing	Architectural Glazing	\$ 292,386
Aluminum Framing	Hewett Company	\$ 299,950
Hard Tile	Marson Enterprises	\$ 71,515
Hard Tile	Continetal Contracting Co., LLC	\$ 104,000
Hard Tile	Artisan Tile Inc	\$ 114,950
Flooring	Foster Specialty Floors	\$ 9,985
Flooring	Cohns Commercial Floor Covering, Inc.	\$ 149,895
Flooring	City Carpet And Flooring	\$ 169,175
Flooring	Shock Brothers Floorcovering, Inc.	\$ 217,900
Painting	Stark Enterprises LLC	\$ 62,500
Painting	G.M. Painting, Inc.	\$ 86,650
Painting	MPM Painting, LLC	\$ 89,450
Painting	Seven Brothers Painting	\$ 95,083
Painting	Continetal Contracting Co., LLC	\$ 105,800
Painting	Classic Painting Company, Inc.	\$ 124,153
Painting	Heritage Contracting	\$ 142,258
Gymnasium Equipment	Bareman & Associates, Inc.	\$ 22,952
Gymnasium Equipment	Gardiner C. Vose, Inc.	\$ 23,544
Gymnasium Equipment	Sports Con - AALCO	\$ 34,950
Casework	Architectural Systems Group LLC	\$ 149,800
Casework	Farnell Contracting, Inc.	\$ 163,100
Casework	Stonecreek Interior Systems LLC	\$ 179,950
Casework	Mica-Tec	\$ 188,200
Casework	Detroit Technical Equipment	\$ 235,000
Mechanical	Contrast Mechanical, Inc.	\$ 997,000
Mechanical	Quality Aire Systems, Inc.	\$ 1,024,500
Mechanical	Dickerson Mechanical	\$ 1,098,000
Mechanical	Ecker Mechanical	\$ 1,139,300
Mechanical	Miller-Bolt, Inc.	\$ 1,194,000
Mechanical	Johnson & Wood, LLC	\$ 1,264,530
Electrical	Livingston Power Company, LLC	\$ 655,900
Electrical	Amcomm Telecommunications Inc.	\$ 828,200
Electrical	Metro Electric Engineering Technologies	\$ 878,000
Electrical	Sawyer Services, Inc.	\$ 887,000
Electrical	Shoreview Electric Co.	\$ 896,000
Electrical	Omega Electric, Inc.	\$ 896,500
Site Work	Site Development Inc	\$ 2,105,000
Site Work	Cortis Brothers Trucking & Excavating	\$ 2,159,000
Site Work	Angelo Iafrate Construction Company	\$ 2,550,000
Site Work	Verdeterre Contracting	\$ 2,634,785

Application for Preliminary Qualification of Bonds

School Bond Qualification and Loan Program for

WATERFORD SCHOOL DISTRICT

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Utilization Summary	Pg 6-Util Summary
Facility Summary	Pg 7-Facility Summary
Cost Summary	Pg 8-Cost Summary

*Include building floor plans and cost estimates for each project.

For additional information about the School Bond Qualification and Loan Program, visit:

Michigan Department of Treasury
Bureau of State and Authority Finance
School Bond Qualification and Loan Program
430 West Allegan Street
Lansing, Michigan 48922
517-335-0994
517-241-1233 (f)
<http://www.michigan.gov/sblf>

Application for Preliminary Qualification of Bonds

Issued under authority of Public Act 92 of 2005, as amended

Election Date

May 5, 2020

Application No.

63-300-4-K12-30-01

District Name and Address

Waterford School District

501 N. Cass Lake Road

Waterford, MI 48328

School District Code and Phone No.

63-300

248-682-7800

Superintendent Name and Email

Scott Lindberg

lindbs01@wsdmi.org

Superintendent Phone No.

248-706-4860

Superintendent FAX No.

248-706-4888

Mailing Instructions

Return TWO originally signed copies to your bond counsel by **OVERNIGHT MAIL**.

Return ONE originally signed copy to your financial consultant.

Return ONE originally signed copy to your architectural firm.

Return ONE originally signed copy to your construction management firm, if applicable.

Retain ONE originally signed copy for your files.

Certificate

I, the undersigned, Secretary of the Board of Education, do certify hereby that the Board of Education of this School District, at a **regular** meeting of the Board, which was conducted and for which public notice of said meeting was given pursuant to and in full compliance with Act 276 of the Public Acts of 1976 (Open Meetings Act), on this

19 day of December 2019 took the following action:

- (1) Resolved to apply for preliminary qualification of bonds by the State Treasurer for the purpose of financing the school construction description in this application.
- (2) That said application is presented to the State Treasurer for action prior to the official action of the Board of Education calling the election on said bond issue.
- (3) Resolved that this Board of Education will present a final qualification application to the State Treasurer for qualification of their bonds after this bond issue has been approved by the electors of said district.
- (4) Read this application and approved all statements and representations contained herein as true to the best knowledge and belief of the Board.
- (5) Authorized the Secretary of the Board of Education to sign this Preliminary Application and submit same to the State Treasurer for review and approval.

IN WITNESS whereof, I have hereunto set my hand this 19 day of December 2019

Heather Halls

Secretary, Board of Education

Signature of Secretary

Joan Sutherland

Treasurer, Board of Education

Scott Lindberg

Superintendent of Schools

Dickinson Wright PLLC

Bond Counsel

2600 W. Big Beaver Road, Suite 300, Troy, MI 48084

Mailing Address

Municipal Financial Consultants

Financial Consultant

3150 Livernois Road, Suite 175, Troy, MI 48083

Mailing Address

French Associates, Inc.

Architectural Firm

236 Mill St, Rochester, MI 48307

Mailing Address

Barton Malow Company

Construction Management Firm

26500 American Drive, Southfield, MI 48034

Mailing Address

ATTACH PROPOSED BALLOT LANGUAGE.

BOND PROPOSAL

Shall the Waterford School District, County of Oakland, Michigan, borrow the principal sum of not to exceed One Hundred Fifty Million Dollars (\$150,000,000) and issue its general obligation unlimited tax bonds for the purpose of defraying the cost of:

- constructing and furnishing a new Early Childhood Center;
- constructing, erecting, furnishing and equipping additions to and remodeling, furnishing, refurbishing, equipping and reequipping existing school buildings;
- acquiring school buses;
- constructing, equipping, developing and improving sites, including athletic fields and facilities and playgrounds;
- acquiring, installing and equipping instructional technology infrastructure and equipment; and
- upgrading and acquiring safety and security equipment?

The debt millage required to retire all bonds of the School District currently outstanding and proposed pursuant to this ballot is estimated to be at or below 6.75 mills. The estimated millage to be levied in 2020 to service this issue of bonds is 0.4329 mills (\$0.4329 per \$1,000 of taxable value) and the estimated simple average annual millage rate required to retire the bonds of this issue is 2.6645 mills (\$2.6645 per \$1,000 of taxable value). The bonds will be issued in multiple series, payable in the case of each series in not to exceed 20 years from the date of issue of such series.

The School District currently has \$132,285,000 of qualified bonds outstanding and \$0 of qualified loans outstanding under the School Bond Qualification and Loan Program (the "Program"). The School District does not expect to borrow from the Program to pay debt service on these bonds. If the School District borrows from the Program, the estimated computed millage rate may change based on changes in certain circumstances.

(Under State law, expenditure of bond proceeds must be audited and the proceeds cannot be used for repair or maintenance costs, teacher, administrator or employee salaries or other operating expenses.)

Financial Summary

Financial information provided as of: 12/12/2019

A. Existing Bond Debt: List each outstanding debt issue separately in chronological order by issue date.

Issue Date	Purpose	Issue Amount	Current Outstanding Principal Balance			Outstanding Principal Balance as of Election Date			Millage	
			Current Qualified	Current Non-Qualified	Current Total	Qualified	Non-Voted	Election Date Total	Levied This Tax Year	Estimate Next Tax Year
4/1/2013	Refunding	26,150,000	12,855,000		12,855,000	8,295,000		8,295,000	2.0000	6.3165
5/1/2013	Bid & Site	20,000,000	11,000,000		11,000,000	9,500,000		9,500,000	0.6800	
4/1/2014	Refunding	13,455,000	6,020,000		6,020,000	4,205,000		4,205,000	0.8100	
7/1/2014	Energy Conserv.	6,775,000		2,400,000	2,400,000		2,400,000	2,400,000	0.0000	0.00
10/1/2014	Bid, Site, Equip	20,000,000	14,050,000		14,050,000	12,825,000		12,825,000	0.6100	
8/1/2015	Bid, Site, Equip	15,000,000	11,665,000		11,665,000	10,760,000		10,760,000	0.4700	
10/1/2016	Bid, Site, Equip	20,000,000	17,805,000		17,805,000	16,990,000		16,990,000	0.4800	
9/1/2017	Bid, Site, Equip	50,000,000	45,250,000		45,250,000	43,750,000		43,750,000	1.0600	
3/1/2018	Bid, Site, Equip	10,000,000	9,250,000		9,250,000	8,950,000		8,950,000	0.2200	
3/13/2019	Bid, Site, Equip	17,875,000	17,365,000		17,365,000	17,010,000		17,010,000	0.4200	
Total		145,260,000	0	2,400,000	147,660,000	132,285,000	0	2,400,000	6.7500	6.3165

Have proceeds of all existing bonds been spent? **No**
See attached letter for more information on unspent bond proceeds.

B. Proposed Bond Issue: List each ballot proposal separately.

Proposal	Amount	Bond Term	Avg Int Rate	Bond Interest	SLRF Interest	Total Interest	Avg Millage	Millage Year 1
Proposal 1	150,000,000	25 Years	3.94%	69,706,500	0	69,706,500	2.6645	0.4329
Proposal 2						0		
Proposal 3						0		
Proposal 4						0		
Combined Issue	150,000,000			69,706,500	0			

(Totals may not foot due to differences in the financial structure of individual proposals and a combined bond issue.)

C. School Bond Loan Participation

Mandatory Final SBLF Loan Repayment Date	Current SBLF Balance	Estimated SBLF Balance as of Election Date	School Bond Loan Fund			Millage		Est Amt to be Borrowed					
			SBLF Beginning Date	Projected SBLF End Date	Projected SBLF Interest Rate	Maximum SBLF Balance Year	Initial Computed Millage	Estimated Duration of Computed Millage	Existing Bonds Principal	Existing Bonds Interest	Proposed Bonds Principal	Proposed Bonds Interest	
n/a	0	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0	0	0	0

D. Property Tax Assumptions

Tax Year	Taxable Value	Growth Rate			Property Taxes Levied		Pending Material Tax Appeals in the District	
		Prior 5 Year Average	Prior 20 Year Average	Projected Rate Years 1 - 5	Projected Rate Years 6+	Winter		Summer
2019	2,500,669,166	3.40	1.36	3.40%	1.36%	0.00%	100.00%	No

(If district is aware of any event or circumstance that could significantly affect its future, disclosure must be included.)

E. Millage

Series/Proposal	Amount	Dated Date	Construction Fund Beg. Date	Construction Fund End Date
1	35,000,000	8/1/2020	8/1/2020	12/1/2022
2	70,000,000	2/1/2023	2/1/2023	12/1/2025
3	45,000,000	2/1/2026	2/1/2026	12/1/2027
4				
5				

F. Key Financial Measures

Total Debt to Taxable Value	Weighted Average Maturity of Bonds	120% of Average Useful Life of Assets	Total Current Bond Debt plus School Bond Loan Debt
0.11	11.80	29.04	147,660,000

G. Bond Issuance

Series/Proposal	Amount	Dated Date	Construction Fund Beg. Date	Construction Fund End Date
1	35,000,000	8/1/2020	8/1/2020	12/1/2022
2	70,000,000	2/1/2023	2/1/2023	12/1/2025
3	45,000,000	2/1/2026	2/1/2026	12/1/2027
4				
5				

H. Certification

The financial impact presented herein is based on certain assumptions regarding interest rates and taxable value growth rates. Actual millage rates may be subject to adjustment based on differences in these assumptions, actual interest rates, and future taxable value growth.

Prepared By Steven Burke, CFA
Firm MFCI, LLC

Waterford School District
County of Oakland, State of Michigan

Historical Change in Taxable Value

<i>Year</i>	<i>Taxable Value ("TV")</i>	<i>TV Annual Percent Change</i>	<i>5-Year TV Average</i>	<i>20-Year TV Average</i>
2019	\$ 2,500,669,166	5.644%	3.404%	1.359%
2018	2,367,082,391	4.032%	2.301%	
2017	2,275,337,826	3.210%	1.282%	
2016	2,204,566,079	1.891%	0.046%	
2015	2,163,657,996	2.243%	-2.522%	
2014	2,116,192,519	0.129%	-5.894%	
2013	2,113,465,425	-1.061%	-6.380%	
2012	2,136,133,762	-2.970%	-6.199%	
2011	2,201,517,270	-10.949%	-4.737%	
2010	2,472,209,720	-14.620%	-1.653%	
2009	2,895,552,410	-2.301%	2.247%	
2008	2,963,759,239	-0.153%	3.725%	
2007	2,968,294,390	4.338%	4.598%	
2006	2,844,894,231	4.474%	4.950%	
2005	2,723,052,617	4.876%	5.290%	
2004	2,596,450,863	5.090%	5.679%	
2003	2,470,683,799	4.213%		
2002	2,370,794,361	6.094%		
2001	2,234,607,260	6.175%		
2000	2,104,646,979	6.823%		

Waterford School District
County of Oakland, State of Michigan
Existing Debt Before Additional Bonding

2013 Refunding Bonds

Tax-Type: Unlimited Tax
Original Amount: 26,150,000
Net Interest Cost: 2.16%
Call Date: Non-Callable
Voter Approval: Yes
Dated: 4/1/2013

Tax Year	Fiscal Year	Principal Due	Coupon Rate	Interest Due Nov. 1	Interest Due May 1	Total Debt Service
2019						
2020	2020	4,560,000	5.00	321,375	321,375	5,202,750
2021	2021	2,575,000	5.00	207,375	207,375	2,989,750
2022	2022	2,575,000	5.00	143,000	143,000	2,861,000
2023	2023	3,145,000	5.00	78,625	78,625	3,302,250
2024	2024	-	-	-	-	-
2025	2025	-	-	-	-	-
2026	2026	-	-	-	-	-
2027	2027	-	-	-	-	-
2028	2028	-	-	-	-	-
2029	2029	-	-	-	-	-
2030	2030	-	-	-	-	-
2031	2031	-	-	-	-	-
2032	2032	-	-	-	-	-
2033	2033	-	-	-	-	-
2034	2034	-	-	-	-	-
2035	2035	-	-	-	-	-
2036	2036	-	-	-	-	-
2037	2037	-	-	-	-	-
Total:		12,855,000		750,375	750,375	14,355,750

2013 Bonds

Tax-Type: Unlimited Tax
Original Amount: 20,000,000
Net Interest Cost: 2.20%
Call Date: 5/1/2020
Voter Approval: Yes
Dated: 5/1/2013

Tax Year	Fiscal Year	Principal Due	Coupon Rate	Interest Due Nov. 1	Interest Due May 1	Total Debt Service
2019						
2020	2020	1,500,000	2.00	131,250	131,250	1,762,500
2021	2021	1,500,000	2.00	116,250	116,250	1,732,500
2022	2022	1,500,000	2.00	101,250	101,250	1,702,500
2023	2023	1,500,000	2.25	86,250	86,250	1,672,500
2024	2024	1,500,000	2.50	69,375	69,375	1,638,750
2025	2025	1,500,000	2.75	50,625	50,625	1,601,250
2026	2026	1,000,000	3.00	30,000	30,000	1,060,000
2027	2027	1,000,000	3.00	15,000	15,000	1,030,000
2028	2028	-	-	-	-	-
2029	2029	-	-	-	-	-
2030	2030	-	-	-	-	-
2031	2031	-	-	-	-	-
2032	2032	-	-	-	-	-
2033	2033	-	-	-	-	-
2034	2034	-	-	-	-	-
2035	2035	-	-	-	-	-
2036	2036	-	-	-	-	-
2037	2037	-	-	-	-	-
Total:		11,000,000		600,000	600,000	12,200,000

Waterford School District
County of Oakland, State of Michigan
Existing Debt Before Additional Bonding

2014 Refunding Bonds

Tax-Type: Unlimited Tax
Original Amount: 13,455,000
Net Interest Cost: 2.23%
Call Date: Non-Callable
Voter Approval: Yes
Dated: 4/1/2014

Tax Year	Fiscal Year	Principal Due	Coupon Rate	Interest Due Nov. 1	Interest Due May 1	Total Debt Service
2019	2020	1,815,000	5.00	150,500	150,500	2,116,000
2020	2021	1,810,000	5.00	105,125	105,125	2,020,250
2021	2022	2,395,000	5.00	59,875	59,875	2,514,750
2022	2023	-	-	-	-	-
2023	2024	-	-	-	-	-
2024	2025	-	-	-	-	-
2025	2026	-	-	-	-	-
2026	2027	-	-	-	-	-
2027	2028	-	-	-	-	-
2028	2029	-	-	-	-	-
2029	2030	-	-	-	-	-
2030	2031	-	-	-	-	-
2031	2032	-	-	-	-	-
2032	2033	-	-	-	-	-
2033	2034	-	-	-	-	-
2034	2035	-	-	-	-	-
2035	2036	-	-	-	-	-
2036	2037	-	-	-	-	-
Total:		6,020,000		315,500	315,500	6,651,000

2014 Energy Conservation Refunding Bonds

Tax-Type: Limited Tax
Original Amount: 6,775,000
Net Interest Cost: 1.87%
Call Date: Non-Callable
Voter Approval: No
Dated: 7/1/2014

Tax Year	Fiscal Year	Principal Due	Coupon Rate	Interest Due Feb. 1	Interest Due Aug. 1	Total Debt Service
2019	2020	-	5.00	82,875	-	82,875
2020	2021	915,000	5.00	60,000	37,125	1,012,125
2021	2022	845,000	5.00	37,125	16,000	898,125
2022	2023	640,000	5.00	16,000	-	656,000
2023	2024	-	-	-	-	-
2024	2025	-	-	-	-	-
2025	2026	-	-	-	-	-
2026	2027	-	-	-	-	-
2027	2028	-	-	-	-	-
2028	2029	-	-	-	-	-
2029	2030	-	-	-	-	-
2030	2031	-	-	-	-	-
2031	2032	-	-	-	-	-
2032	2033	-	-	-	-	-
2033	2034	-	-	-	-	-
2034	2035	-	-	-	-	-
2035	2036	-	-	-	-	-
2036	2037	-	-	-	-	-
Total:		2,400,000		196,000	53,125	2,649,125

Waterford School District
County of Oakland, State of Michigan
Existing Debt Before Additional Bonding

2014 Bonds

Tax-Type: Unlimited Tax
Original Amount: 20,000,000
Net Interest Cost: 2.63%
Call Date: 5/1/2021
Voter Approval: Yes
Dated: 10/1/2014

Tax Year	Fiscal Year	Principal Due	Coupon Rate	Interest Due		Total Debt Service
				Nov. 1	May 1	
2019						
2020	2020	1,225,000	2.00	185,644	185,644	1,596,288
2021	2021	1,275,000	2.00	173,394	173,394	1,621,788
2022	2022	1,300,000	2.25	160,644	160,644	1,621,288
2023	2023	1,325,000	2.50	146,019	146,019	1,617,038
2024	2024	1,375,000	2.50	129,456	129,456	1,633,913
2025	2025	1,425,000	2.75	112,269	112,269	1,649,538
2026	2026	1,475,000	3.00	92,675	92,675	1,660,350
2027	2027	1,500,000	3.00	70,550	70,550	1,641,100
2028	2028	1,550,000	3.00	48,050	48,050	1,646,100
2029	2029	1,600,000	3.10	24,800	24,800	1,649,600
2030	2030	-	-	-	-	-
2031	2031	-	-	-	-	-
2032	2032	-	-	-	-	-
2033	2033	-	-	-	-	-
2034	2034	-	-	-	-	-
2035	2035	-	-	-	-	-
2036	2036	-	-	-	-	-
2037	2037	-	-	-	-	-
Total:		14,050,000		1,143,500	1,143,500	16,337,000

2015 Bonds

Tax-Type: Unlimited Tax
Original Amount: 15,000,000
Net Interest Cost: 2.71%
Call Date: 5/1/2022
Voter Approval: Yes
Dated: 8/1/2015

Tax Year	Fiscal Year	Principal Due	Coupon Rate	Interest Due		Total Debt Service
				Nov. 1	May 1	
2019						
2020	2020	905,000	2.00	156,853	156,853	1,218,706
2021	2021	930,000	2.00	147,803	147,803	1,225,606
2022	2022	960,000	2.00	138,503	138,503	1,237,006
2023	2023	985,000	2.00	128,903	128,903	1,242,806
2024	2024	1,015,000	3.00	119,053	119,053	1,253,106
2025	2025	1,050,000	3.00	103,828	103,828	1,257,656
2026	2026	1,085,000	3.00	88,078	88,078	1,261,156
2027	2027	1,125,000	3.00	71,803	71,803	1,268,606
2028	2028	1,165,000	3.00	54,928	54,928	1,274,856
2029	2029	1,200,000	3.00	37,453	37,453	1,274,906
2030	2030	1,245,000	3.13	19,453	19,453	1,283,906
2031	2031	-	-	-	-	-
2032	2032	-	-	-	-	-
2033	2033	-	-	-	-	-
2034	2034	-	-	-	-	-
2035	2035	-	-	-	-	-
2036	2036	-	-	-	-	-
2037	2037	-	-	-	-	-
Total:		11,665,000		1,066,659	1,066,659	13,798,319

Waterford School District
County of Oakland, State of Michigan
Existing Debt Before Additional Bonding

2016 Bonds

Tax-Type: Unlimited Tax
Original Amount: 20,000,000
Net Interest Cost: 2.60%
Call Date: 5/1/2024
Voter Approval: Yes
Dated: 10/1/2016

Tax Year	Fiscal Year	Principal Due	Coupon Rate	Interest Due Nov. 1	Interest Due May 1	Total Debt Service
2019	2020	815,000	2.000	224,034	224,034	1,263,069
2020	2021	835,000	2.000	215,884	215,884	1,266,769
2021	2022	855,000	2.000	207,534	207,534	1,270,069
2022	2023	880,000	2.000	198,984	198,984	1,277,969
2023	2024	905,000	2.000	190,184	190,184	1,285,369
2024	2025	935,000	2.000	181,134	181,134	1,297,269
2025	2026	960,000	2.000	171,784	171,784	1,303,569
2026	2027	995,000	2.000	162,184	162,184	1,319,369
2027	2028	1,025,000	2.250	152,234	152,234	1,329,469
2028	2029	1,055,000	2.375	140,703	140,703	1,336,406
2029	2030	1,095,000	3.000	128,175	128,175	1,351,350
2030	2031	1,130,000	3.000	111,750	111,750	1,353,500
2031	2032	1,170,000	3.000	94,800	94,800	1,359,600
2032	2033	1,210,000	3.000	77,250	77,250	1,364,500
2033	2034	1,265,000	3.000	59,100	59,100	1,383,200
2034	2035	1,315,000	3.000	40,125	40,125	1,395,250
2035	2036	1,360,000	3.000	20,400	20,400	1,400,800
2036	2037	-	-	-	-	-
Total:		17,805,000		2,376,262	2,376,262	22,557,525

2017 Bonds

Tax-Type: Unlimited Tax
Original Amount: 50,000,000
Net Interest Cost: 2.78%
Call Date: 5/1/2025
Voter Approval: Yes
Dated: 9/1/2017

Tax Year	Fiscal Year	Principal Due	Coupon Rate	Interest Due Nov. 1	Interest Due May 1	Total Debt Service
2019	2020	1,500,000	2.000	636,875	636,875	2,773,750
2020	2021	1,575,000	2.000	621,875	621,875	2,818,750
2021	2022	1,650,000	2.000	606,125	606,125	2,862,250
2022	2023	1,700,000	2.000	589,625	589,625	2,879,250
2023	2024	1,950,000	2.000	572,625	572,625	3,095,250
2024	2025	2,300,000	3.000	553,125	553,125	3,406,250
2025	2026	2,400,000	3.000	518,625	518,625	3,437,250
2026	2027	2,500,000	3.000	482,625	482,625	3,465,250
2027	2028	2,550,000	3.000	445,125	445,125	3,440,250
2028	2029	2,625,000	3.000	406,875	406,875	3,438,750
2029	2030	2,700,000	3.000	367,500	367,500	3,435,000
2030	2031	2,800,000	3.000	327,000	327,000	3,454,000
2031	2032	2,900,000	3.000	285,000	285,000	3,470,000
2032	2033	3,000,000	3.000	241,500	241,500	3,483,000
2033	2034	3,100,000	3.000	196,500	196,500	3,493,000
2034	2035	3,200,000	3.000	150,000	150,000	3,500,000
2035	2036	3,325,000	3.000	102,000	102,000	3,529,000
2036	2037	3,475,000	3.000	52,125	52,125	3,579,250
Total:		45,250,000		7,155,125	7,155,125	59,560,250

Waterford School District
County of Oakland, State of Michigan
Existing Debt Before Additional Bonding

2018 Bonds

Tax-Type: Unlimited Tax
Original Amount: 10,000,000
Net Interest Cost: 2.95%
Call Date: 5/1/2025
Voter Approval: Yes
Dated: 3/1/2018

Tax Year	Fiscal Year	Principal Due	Coupon Rate	Interest Due Nov. 1	Interest Due May 1	Total Debt Service
2019	2020	300,000	3.000	139,813	139,813	579,625
2020	2021	660,000	3.000	135,313	135,313	930,625
2021	2022	670,000	3.000	125,413	125,413	920,825
2022	2023	680,000	3.000	115,363	115,363	910,725
2023	2024	690,000	3.000	105,163	105,163	900,325
2024	2025	700,000	3.000	94,813	94,813	889,625
2025	2026	720,000	3.000	84,313	84,313	888,625
2026	2027	740,000	3.000	73,513	73,513	887,025
2027	2028	760,000	3.000	62,413	62,413	884,825
2028	2029	800,000	3.000	51,013	51,013	902,025
2029	2030	830,000	3.000	39,013	39,013	908,025
2030	2031	840,000	3.125	26,563	26,563	893,125
2031	2032	860,000	3.125	13,438	13,438	886,875
2032	2033	-	-	-	-	-
2033	2034	-	-	-	-	-
2034	2035	-	-	-	-	-
2035	2036	-	-	-	-	-
2036	2037	-	-	-	-	-
Total:		9,250,000		1,066,138	1,066,138	11,382,275

2019 Bonds

Tax-Type: Unlimited Tax
Original Amount: 17,875,000
Net Interest Cost: 3.12%
Call Date: 5/1/2026
Voter Approval: Yes
Dated: 3/13/2019

Tax Year	Fiscal Year	Principal Due	Coupon Rate	Interest Due Nov. 1	Interest Due May 1	Total Debt Service
2019	2020	355,000	4.000	375,625	375,625	1,106,250
2020	2021	990,000	4.000	368,525	368,525	1,727,050
2021	2022	1,025,000	5.000	348,725	348,725	1,722,450
2022	2023	1,075,000	5.000	323,100	323,100	1,721,200
2023	2024	1,130,000	5.000	296,225	296,225	1,722,450
2024	2025	1,190,000	5.000	267,975	267,975	1,725,950
2025	2026	1,245,000	5.000	238,225	238,225	1,721,450
2026	2027	1,315,000	4.000	207,100	207,100	1,729,200
2027	2028	1,360,000	4.000	180,800	180,800	1,721,600
2028	2029	1,415,000	4.000	153,600	153,600	1,722,200
2029	2030	1,475,000	4.000	125,300	125,300	1,725,600
2030	2031	1,535,000	4.000	95,800	95,800	1,726,600
2031	2032	1,600,000	4.000	65,100	65,100	1,730,200
2032	2033	1,655,000	4.000	33,100	33,100	1,721,200
2033	2034	-	-	-	-	-
2034	2035	-	-	-	-	-
2035	2036	-	-	-	-	-
2036	2037	-	-	-	-	-
Total:		17,365,000		3,079,200	3,079,200	23,523,400

Waterford School District
County of Oakland, State of Michigan
Existing Debt Before Additional Bonding

Total Limited Tax Bonds									
Tax Year	Fiscal Year	Principal Due	Interest Due Feb. 1	Interest Due Aug. 1	Total Debt Service				
2019	2020	-	82,875	-	82,875				
2020	2021	915,000	60,000	37,125	1,012,125				
2021	2022	845,000	37,125	16,000	898,125				
2022	2023	640,000	16,000	-	656,000				
2023	2024	-	-	-	-				
2024	2025	-	-	-	-				
2025	2026	-	-	-	-				
2026	2027	-	-	-	-				
2027	2028	-	-	-	-				
2028	2029	-	-	-	-				
2029	2030	-	-	-	-				
2030	2031	-	-	-	-				
2031	2032	-	-	-	-				
2032	2033	-	-	-	-				
2033	2034	-	-	-	-				
2034	2035	-	-	-	-				
2035	2036	-	-	-	-				
2036	2037	-	-	-	-				
Total:		2,400,000	196,000	53,125	2,649,125				

Total Unlimited Tax Bonds									
Tax Year	Fiscal Year	Principal Due	Interest Due Nov. 1	Interest Due May 1	Total Debt Service				
2019	2020	12,975,000	2,321,969	2,321,969	17,618,937				
2020	2021	12,150,000	2,091,544	2,091,544	16,333,087				
2021	2022	12,930,000	1,891,069	1,891,069	16,712,137				
2022	2023	11,290,000	1,666,869	1,666,869	14,623,737				
2023	2024	8,565,000	1,482,081	1,482,081	11,529,162				
2024	2025	9,100,000	1,363,769	1,363,769	11,827,537				
2025	2026	8,885,000	1,223,700	1,223,700	11,332,400				
2026	2027	9,175,000	1,082,775	1,082,775	11,340,550				
2027	2028	8,410,000	943,550	943,550	10,297,100				
2028	2029	8,695,000	814,444	814,444	10,323,887				
2029	2030	7,345,000	679,441	679,441	8,703,881				
2030	2031	6,305,000	561,113	561,113	7,427,225				
2031	2032	6,530,000	458,338	458,338	7,446,675				
2032	2033	5,865,000	351,850	351,850	6,568,700				
2033	2034	4,365,000	255,600	255,600	4,876,200				
2034	2035	4,515,000	190,125	190,125	4,895,250				
2035	2036	4,685,000	122,400	122,400	4,929,800				
2036	2037	3,475,000	52,125	52,125	3,579,250				
Total:		145,260,000	17,552,759	17,552,759	180,365,518				

Waterford School District
County of Oakland, State of Michigan
Estimated Millage to Service Existing UT Debt

Tax Year	Fiscal Year	P & I Existing UT Debt	Projected TV	Growth Rate	Mills		Projected Total Mills	Tax Revenue Available @ Projected Millage	Difference Between Tax Revenue & Existing Debt	Accumulated Surplus as of June 30
					Required for Existing Bonds	Projected Total				
2019	2020	17,618,938	2,500,669,166	5.644%	7.0457	6.7500	16,879,517	(739,421) *	975,390	
2020	2021	16,333,088	2,585,791,944	3.404%	6.3165	6.3165	16,333,088	-	975,390	
2021	2022	16,712,138	2,673,812,302	3.404%	6.2503	6.2503	16,712,138	-	975,390	
2022	2023	14,623,738	2,764,828,873	3.404%	5.2892	5.2892	14,623,738	-	975,390	
2023	2024	11,529,163	2,858,943,648	3.404%	4.0327	4.0327	11,529,163	-	975,390	
2024	2025	11,827,538	2,956,262,090	3.404%	4.0008	4.0008	11,827,538	-	975,390	
2025	2026	11,332,400	2,996,437,692	1.359%	3.7820	3.7820	11,332,400	-	975,390	
2026	2027	11,340,550	3,037,159,280	1.359%	3.7339	3.7339	11,340,550	-	975,390	
2027	2028	10,297,100	3,078,434,275	1.359%	3.3449	3.3449	10,297,100	-	975,390	
2028	2029	10,323,888	3,120,270,197	1.359%	3.3087	3.3087	10,323,888	-	975,390	
2029	2030	8,703,881	3,162,674,669	1.359%	2.7521	2.7521	8,703,881	-	975,390	
2030	2031	7,427,225	3,205,655,418	1.359%	2.3169	2.3169	7,427,225	-	975,390	
2031	2032	7,446,675	3,249,220,275	1.359%	2.2918	2.2918	7,446,675	-	975,390	
2032	2033	6,568,700	3,293,377,179	1.359%	1.9945	1.9945	6,568,700	-	975,390	
2033	2034	4,876,200	3,338,134,175	1.359%	1.4608	1.4608	4,876,200	-	975,390	
2034	2035	4,895,250	3,383,499,418	1.359%	1.4468	1.4468	4,895,250	-	975,390	
2035	2036	4,929,800	3,429,481,175	1.359%	1.4375	1.4375	4,929,800	-	975,390	
2036	2037	3,579,250	3,476,087,824	1.359%	1.0297	1.0297	3,579,250	-	975,390	

180,365,519

Average Millage: 2.3669
(Fiscal Year 2020-2037) *Planned use of fund balance.

Debt/TV (2019): 5.90%
Collection Cycle: July Levy

Waterford School District
County of Oakland, State of Michigan
\$35,000,000
2020 - Series 1

Bond Sizing Schedule			
Estimated Costs of Issuance		Bond Sizing	
Bond Counsel	52,500	Total Costs of Issuance	347,605
Financial Advisor	38,000	Total Project Expenditures	<u>35,375,256</u>
Credit Agency	27,000	Total	<u>35,722,861</u>
Qualification of Bonds	11,000		
Official Statement Production	4,500	Less Original Issue Premium	-
Notice of Sale Publication	1,705	Less Projected Interest Earnings	(722,861)
Reimbursed Election Costs	70,000		
Treasury Filing Fee	2,000	Total Bond Issue Principal	<u>35,000,000</u>
Paying Agent	500		
MAC of MI Fee	400	Average Life of Expenditures (yrs.)	1.37
Total Professional Fees	<u>207,605</u>		
Underwriter's Discount \$4.00/\$1000	<u>140,000</u>		
Total Cost of Issuance	<u>347,605</u>		

Project Draws and Earnings								
<i>Date</i>	<i>Project Costs</i>	<i>Issuance Costs</i>	<i>Totals</i>	<i>Month</i>	<i>Payout %</i>	<i>Project Fund Balance</i>	<i>Est. Interest Rate</i>	<i>Projected Interest Earned</i>
8/1/2020	-	347,605	347,605	0	0.99%	34,652,395	1.50%	43,315
9/1/2020	18,386		18,386	1	0.92%	34,677,324	1.50%	43,347
10/1/2020	54,646		54,646	2	0.95%	34,666,025	1.50%	43,333
11/1/2020	89,382		89,382	3	1.09%	34,619,976	1.50%	43,275
12/1/2020	121,632		121,632	4	1.31%	34,541,619	1.50%	43,177
1/1/2021	150,508		150,508	5	1.62%	34,434,288	1.50%	43,043
2/1/2021	175,226		175,226	6	1.99%	34,302,105	1.50%	42,878
3/1/2021	195,130		195,130	7	2.43%	34,149,852	1.50%	42,687
4/1/2021	670,330		670,330	8	4.22%	33,522,209	1.50%	41,903
5/1/2021	1,728,928		1,728,928	9	9.04%	31,835,184	1.50%	39,794
6/1/2021	3,609,750		3,609,750	10	19.24%	28,265,228	1.50%	35,332
7/1/2021	4,766,823		4,766,823	11	32.76%	23,533,737	1.50%	29,417
8/1/2021	3,606,377		3,606,377	12	42.98%	19,956,777	1.50%	24,946
9/1/2021	2,064,375		2,064,375	13	48.81%	17,917,348	1.50%	22,397
10/1/2021	1,259,903		1,259,903	14	52.34%	16,679,842	1.50%	20,850
11/1/2021	614,433		614,433	15	54.04%	16,086,258	1.50%	20,108
12/1/2021	186,986		186,986	16	54.52%	15,919,380	1.50%	19,899
1/1/2022	119,785		119,785	17	54.80%	15,819,494	1.50%	19,774
2/1/2022	129,885		129,885	18	55.12%	15,709,384	1.50%	19,637
3/1/2022	135,434		135,434	19	55.45%	15,593,587	1.50%	19,492
4/1/2022	504,968		504,968	20	56.83%	15,108,111	1.50%	18,885
5/1/2022	1,370,666		1,370,666	21	60.70%	13,756,330	1.50%	17,195
6/1/2022	3,107,034		3,107,034	22	69.52%	10,666,491	1.50%	13,333
7/1/2022	4,228,357		4,228,357	23	81.57%	6,451,467	1.50%	8,064
8/1/2022	3,145,161		3,145,161	24	90.53%	3,314,371	1.50%	4,143
9/1/2022	1,760,803		1,760,803	25	95.55%	1,557,710	1.50%	1,947
10/1/2022	1,061,809		1,061,809	26	98.58%	497,849	1.50%	622
11/1/2022	443,711		443,711	27	99.84%	54,760	1.50%	68
12/1/2022	54,828		54,828	28	100.00%	0	1.50%	0
	<u>35,375,256</u>	<u>347,605</u>	<u>35,722,861</u>					<u>722,861.38</u>

Waterford School District
County of Oakland, State of Michigan
\$70,000,000
2023 - Series 2

Bond Sizing Schedule			
Estimated Costs of Issuance		Bond Sizing	
Bond Counsel	97,500	Total Costs of Issuance	516,605
Financial Advisor	73,000	Total Project Expenditures	<u>70,713,466</u>
Credit Agency	40,000	Total	<u>71,230,071</u>
Qualification of Bonds	18,000		
Official Statement Production	4,500	Less Original Issue Premium	-
Notice of Sale Publication	1,705	Less Projected Interest Earnings	(1,230,071)
Reimbursed Election Costs	-		
Treasury Filing Fee	1,000	Total Bond Issue Principal	<u>70,000,000</u>
Paying Agent	500		
MAC of MI Fee	400	Average Life of Expenditures (yrs.)	1.17
Total Professional Fees	<u>236,605</u>		
Underwriter's Discount \$4.00/\$1000	<u>280,000</u>		
Total Cost of Issuance	<u>516,605</u>		

Project Draws and Earnings								
<i>Date</i>	<i>Project Costs</i>	<i>Issuance Costs</i>	<i>Totals</i>	<i>Month</i>	<i>Payout %</i>	<i>Project Fund Balance</i>	<i>Est. Interest Rate</i>	<i>Projected Interest Earned</i>
2/1/2023	-	516,605	516,605	0	0.74%	69,483,395	1.50%	86,854
3/1/2023	295,235		295,235	1	1.04%	69,275,014	1.50%	86,594
4/1/2023	1,383,974		1,383,974	2	2.89%	67,977,634	1.50%	84,972
5/1/2023	3,229,724		3,229,724	3	7.38%	64,832,882	1.50%	81,041
6/1/2023	5,277,541		5,277,541	4	14.81%	59,636,382	1.50%	74,545
7/1/2023	6,502,541		6,502,541	5	23.99%	53,208,387	1.50%	66,510
8/1/2023	6,216,473		6,216,473	6	32.77%	47,058,424	1.50%	58,823
9/1/2023	4,383,462		4,383,462	7	38.95%	42,733,785	1.50%	53,417
10/1/2023	2,818,671		2,818,671	8	42.90%	39,968,531	1.50%	49,961
11/1/2023	2,372,017		2,372,017	9	46.22%	37,646,475	1.50%	47,058
12/1/2023	1,914,369		1,914,369	10	48.89%	35,779,164	1.50%	44,724
1/1/2024	1,538,605		1,538,605	11	51.02%	34,285,283	1.50%	42,857
2/1/2024	1,272,566		1,272,566	12	52.78%	33,055,574	1.50%	41,319
3/1/2024	1,008,775		1,008,775	13	54.16%	32,088,118	1.50%	40,110
4/1/2024	1,111,992		1,111,992	14	55.69%	31,016,236	1.50%	38,770
5/1/2024	1,754,916		1,754,916	15	58.14%	29,300,091	1.50%	36,625
6/1/2024	2,834,339		2,834,339	16	62.14%	26,502,377	1.50%	33,128
7/1/2024	3,869,642		3,869,642	17	67.62%	22,665,863	1.50%	28,332
8/1/2024	3,779,881		3,779,881	18	72.98%	18,914,314	1.50%	23,643
9/1/2024	2,004,127		2,004,127	19	75.81%	16,933,830	1.50%	21,167
10/1/2024	550,110		550,110	20	76.56%	16,404,887	1.50%	20,506
11/1/2024	307,054		307,054	21	76.97%	16,118,339	1.50%	20,148
12/1/2024	106,182		106,182	22	77.10%	16,032,305	1.50%	20,040
1/1/2025	-		-	23	77.07%	16,052,346	1.50%	20,065
2/1/2025	-		-	24	77.04%	16,072,411	1.50%	20,091
3/1/2025	38,576		38,576	25	77.07%	16,053,926	1.50%	20,067
4/1/2025	427,081		427,081	26	77.65%	15,646,912	1.50%	19,559
5/1/2025	1,352,137		1,352,137	27	79.55%	14,314,334	1.50%	17,893
6/1/2025	2,608,481		2,608,481	28	83.25%	11,723,746	1.50%	14,655
7/1/2025	4,089,215		4,089,215	29	89.07%	7,649,185	1.50%	9,561
8/1/2025	4,388,624		4,388,624	30	95.33%	3,270,123	1.50%	4,088
9/1/2025	2,177,083		2,177,083	31	98.43%	1,097,127	1.50%	1,371
10/1/2025	366,740		366,740	32	98.95%	731,759	1.50%	915
11/1/2025	204,703		204,703	33	99.25%	527,970	1.50%	660
12/1/2025	528,630		528,630	34	100.00%	0	1.50%	0
	<u>70,713,466</u>	<u>516,605</u>	<u>71,230,071</u>					<u>1,230,071.41</u>

Waterford School District
County of Oakland, State of Michigan
\$45,000,000
2026 - Series 3

Bond Sizing Schedule			
Estimated Costs of Issuance		Bond Sizing	
Bond Counsel	72,500	Total Costs of Issuance	350,605
Financial Advisor	48,000	Total Project Expenditures	45,268,506
Credit Agency	28,000	Total	45,619,111
Qualification of Bonds	13,000		
Official Statement Production	4,500	Less Original Issue Premium	-
Notice of Sale Publication	1,705	Less Projected Interest Earnings	(619,111)
Reimbursed Election Costs	-		
Treasury Filing Fee	2,000	Total Bond Issue Principal	45,000,000
Paying Agent	500		
MAC of MI Fee	400	Average Life of Expenditures (yrs.)	0.91
Total Professional Fees	170,605		
Underwriter's Discount \$4.00/\$1000	180,000		
Total Cost of Issuance	350,605		

Project Draws and Earnings								
<i>Date</i>	<i>Project Costs</i>	<i>Issuance Costs</i>	<i>Totals</i>	<i>Month</i>	<i>Payout %</i>	<i>Project Fund Balance</i>	<i>Est. Interest Rate</i>	<i>Projected Interest Earned</i>
2/1/2026	-	350,605	350,605	0	0.78%	44,649,395	1.50%	55,812
3/1/2026	93,638		93,638	1	0.86%	44,611,569	1.50%	55,764
4/1/2026	271,749		271,749	2	1.34%	44,395,584	1.50%	55,494
5/1/2026	1,293,482		1,293,482	3	4.09%	43,157,597	1.50%	53,947
6/1/2026	4,058,484		4,058,484	4	12.99%	39,153,060	1.50%	48,941
7/1/2026	6,481,114		6,481,114	5	27.29%	32,720,887	1.50%	40,901
8/1/2026	6,140,343		6,140,343	6	40.84%	26,621,445	1.50%	33,277
9/1/2026	3,888,751		3,888,751	7	49.41%	22,765,971	1.50%	28,457
10/1/2026	1,602,282		1,602,282	8	52.91%	21,192,146	1.50%	26,490
11/1/2026	484,068		484,068	9	53.92%	20,734,569	1.50%	25,918
12/1/2026	168,195		168,195	10	54.24%	20,592,292	1.50%	25,740
1/1/2027	13,349		13,349	11	54.21%	20,604,683	1.50%	25,756
2/1/2027	39,138		39,138	12	54.24%	20,591,301	1.50%	25,739
3/1/2027	62,260		62,260	13	54.32%	20,554,780	1.50%	25,693
4/1/2027	81,139		81,139	14	54.45%	20,499,335	1.50%	25,624
5/1/2027	939,859		939,859	15	56.48%	19,585,100	1.50%	24,481
6/1/2027	3,430,772		3,430,772	16	64.05%	16,178,809	1.50%	20,224
7/1/2027	5,885,384		5,885,384	17	77.08%	10,313,649	1.50%	12,892
8/1/2027	5,643,682		5,643,682	18	89.59%	4,682,859	1.50%	5,854
9/1/2027	3,311,612		3,311,612	19	96.94%	1,377,100	1.50%	1,721
10/1/2027	1,135,364		1,135,364	20	99.46%	243,458	1.50%	304
11/1/2027	180,685		180,685	21	99.86%	63,077	1.50%	79
12/1/2027	63,156		63,156	22	100.00%	(0)	1.50%	(0)
	45,268,506	350,605	45,619,111					619,110.83

Waterford School District
County of Oakland, State of Michigan
Debt Service and Millage Impact Schedule (Including New Debt)

Tax Year	Fiscal Year	P & I Existing C/D Debt	Projected TV	Projected Growth Rate	Projected Total Mills	Tax Revenue Available @ Current Millage	Series 2020			Series 2023			Series 2026			Total Existing & Proposed Debt Service	Mills Required for Existing & Proposed Bonds	Fiscal Year Surplus/Deficit	Accumulated Surplus as of June 30			
							Principal Amt New-Series I	Interest Amt New-Series I	Total DS New-Series I	Principal Amt New-Series II	Interest Amt New-Series II	Total DS New-Series II	Principal Amt New-Series III	Interest Amt New-Series III	Total DS New-Series III							
2019	2020	17,618,938	2,500,669,166	5.644%	6.75	16,879,517	135,000	984,375	1,119,375	-	-	-	17,618,938	7.05	-	17,618,938	7.05	-	975,390			
2020	2021	16,333,088	2,585,791,944	3.404%	6.75	17,452,463	25,000	1,307,438	1,332,438	-	-	-	17,452,463	6.75	-	18,044,575	6.75	-	975,390			
2021	2022	16,712,138	2,673,812,302	3.404%	6.75	18,044,575	1,380,000	1,306,500	2,686,500	650,000	700,000	1,350,000	18,044,575	6.75	-	18,660,238	6.75	-	975,390			
2022	2023	14,623,738	2,764,828,873	3.404%	6.75	19,292,913	1,435,000	1,254,750	2,689,750	2,300,000	2,774,000	5,074,000	19,292,913	6.75	-	19,950,475	6.75	-	975,390			
2023	2024	11,529,163	2,858,943,648	3.404%	6.75	19,950,475	1,485,000	1,200,938	2,685,938	2,755,000	2,682,000	5,477,000	19,950,475	6.75	-	20,224,450	6.75	-	975,390			
2024	2025	11,827,538	2,956,262,090	3.404%	6.75	20,224,450	1,540,000	1,145,250	2,685,250	2,785,000	2,571,800	5,356,800	20,224,450	6.75	-	20,497,450	6.75	-	975,390			
2025	2026	11,332,400	2,996,437,692	1.359%	6.75	20,497,450	1,600,000	1,087,500	2,687,500	2,225,000	2,460,400	4,685,400	20,497,450	6.75	-	20,775,000	6.75	-	975,390			
2026	2027	11,340,550	3,037,159,280	1.359%	6.75	20,775,000	1,660,000	1,027,500	2,687,500	2,965,000	2,371,400	5,336,400	20,775,000	6.75	-	21,059,138	6.75	-	975,390			
2027	2028	10,297,100	3,078,434,275	1.359%	6.75	21,059,138	1,725,000	965,250	2,690,250	3,075,000	2,252,800	5,329,800	21,059,138	6.75	-	21,341,000	6.75	-	975,390			
2028	2029	10,323,888	3,120,270,197	1.359%	6.75	21,341,000	1,800,000	900,563	2,700,563	3,200,000	2,129,800	5,329,800	21,341,000	6.75	-	21,622,000	6.75	-	975,390			
2029	2030	8,703,881	3,162,674,669	1.359%	6.46	20,427,088	1,875,000	833,063	2,708,063	3,350,000	2,001,800	5,331,800	20,427,088	6.46	-	20,705,000	6.46	-	975,390			
2030	2031	7,427,225	3,205,655,418	1.359%	5.98	19,157,088	1,945,000	762,750	2,707,750	3,465,000	1,868,600	5,333,600	19,157,088	5.98	-	19,176,025	5.98	-	975,390			
2031	2032	6,568,700	3,249,220,275	1.359%	5.90	18,291,313	2,015,000	689,813	2,704,813	3,600,000	1,730,000	5,330,000	18,291,313	5.55	-	18,291,313	5.55	-	975,390			
2032	2033	4,876,200	3,338,134,175	1.359%	4.97	16,600,650	2,090,000	614,250	2,704,250	3,745,000	1,586,000	5,331,000	16,600,650	4.97	-	16,600,650	4.97	-	975,390			
2033	2034	4,895,250	3,383,499,418	1.359%	4.91	16,619,325	2,170,000	535,875	2,705,875	3,895,000	1,436,200	5,331,200	16,619,325	4.86	-	16,619,325	4.86	-	975,390			
2034	2035	4,929,800	3,429,481,175	1.359%	4.86	16,650,900	2,250,000	454,500	2,704,500	4,050,000	1,280,400	5,330,400	16,650,900	4.86	-	16,650,900	4.86	-	975,390			
2035	2036	3,579,250	3,476,087,824	1.359%	4.40	15,304,375	2,335,000	370,125	2,705,125	4,215,000	1,118,400	5,333,400	15,304,375	4.40	-	15,304,375	4.40	-	975,390			
2036	2037	3,579,250	3,523,327,858	1.359%	3.33	11,725,363	2,420,000	282,563	2,702,563	4,385,000	949,800	5,334,800	11,725,363	3.33	-	11,725,363	3.33	-	975,390			
2037	2038	3,571,209,884	3,571,209,884	1.359%	3.28	11,721,413	2,510,000	191,813	2,701,813	4,560,000	774,400	5,334,400	11,721,413	3.28	-	11,721,413	3.28	-	975,390			
2038	2039	3,619,742,626	3,619,742,626	1.359%	3.24	11,722,888	2,605,000	97,688	2,702,688	4,740,000	592,000	5,332,000	11,722,888	3.24	-	11,722,888	3.24	-	975,390			
2039	2040	3,668,934,928	3,668,934,928	1.359%	2.46	9,019,000	2,605,000	493,000	402,400	4,930,000	205,200	5,335,200	9,019,000	2.46	-	9,019,000	2.46	-	975,390			
2040	2041	3,718,795,754	3,718,795,754	1.359%	2.43	9,020,600	2,605,000	51,130,000	205,200	5,130,000	205,200	5,335,200	9,020,600	2.43	-	9,020,600	2.43	-	975,390			
2041	2042	3,769,334,188	3,769,334,188	1.359%	0.98	3,689,400	2,605,000	3,280,000	409,400	3,150,000	409,400	3,689,400	3,689,400	0.98	-	3,689,400	0.98	-	975,390			
2042	2043	3,820,559,440	3,820,559,440	1.359%	0.97	3,688,200	2,605,000	3,410,000	278,200	3,410,000	278,200	3,688,200	3,688,200	0.97	-	3,688,200	0.97	-	975,390			
2043	2044	3,872,480,843	3,872,480,843	1.359%	0.95	3,686,800	2,605,000	3,545,000	141,800	3,545,000	141,800	3,686,800	3,686,800	0.95	-	3,686,800	0.95	-	975,390			
2044	2045																					
						Average Millage						4.93										
						35,000,000						16,012,500							400,072,019			
						70,000,000						31,887,400							66,806,600			
						101,887,400																

Waterford School District
County of Oakland, State of Michigan

Projected New Bond Issues			
	<u>2020 - Series 1</u>	<u>2023 - Series 2</u>	<u>2026 - Series 3</u>
Amount:	35,000,000	70,000,000	45,000,000
TIC:	3.75%	4.00%	4.00%
Dated Date:	8/1/2020	2/1/2023	2/1/2026
First Payment:	5/1/2021	5/1/2023	5/1/2026
First Levy:	7/1/2020	7/1/2023	7/1/2026
Debt/TV:	6.06%	6.00%	3.82%
Bond Term (Years):	19.75	19.25	19.25
1:5 Ratio:	Yes	Yes	Yes
Average Life (Years):	12.200	11.388	12.114
120% Projected Useful Life:	28.41	32.66	24.62

Combined New Bond Issues	
Weighted Average Life of Bonds:	11.80
120% Projected Useful Life:	29.04
Interest Factor:	0.46
First Year Millage:	0.4329
Average Millage:	2.6645

Overall School District Millage Impact	
Projected Millage:	6.75
2019 Millage:	<u>6.75</u>
Net Change:	0.00

Projected New Bond Issue Debt Service

<i>Tax</i>	<i>Total Proposed</i>	<i>Mills</i>
<i>Year</i>	<i>Debt Service</i>	<i>Required</i>
2020	1,119,375	0.4329
2021	1,332,438	0.4983
2022	4,036,500	1.4599
2023	7,763,750	2.7156
2024	8,122,938	2.7477
2025	8,892,050	2.9675
2026	9,156,900	3.0150
2027	10,477,900	3.4036
2028	10,735,250	3.4405
2029	11,719,163	3.7055
2030	11,729,863	3.6591
2031	11,729,350	3.6099
2032	11,722,613	3.5595
2033	11,724,450	3.5123
2034	11,724,075	3.4651
2035	11,721,100	3.4177
2036	11,725,125	3.3731
2037	11,725,363	3.3279
2038	11,721,413	3.2822
2039	11,722,888	3.2386
2040	9,019,000	2.4582
2041	9,020,600	2.4257
2042	3,689,400	0.9788
2043	3,688,200	0.9654
2044	3,686,800	0.9521
	<u>219,706,500</u>	<u>2.6645</u> Average Millage

KURZMAN ADMINISTRATION SERVICES

CRARY CAMPUS

501 N. Cass Lake Road
Waterford, Michigan 48328-2307
www.waterford.k12.mi.us

PHONE: (248) 682-7800

Fax: (248) 706-4888



December 12, 2019

Ms. Carol Densmore
Department of Treasury
430 West Allegan St
Lansing, MI 58922

Dear Ms. Densmore,

Per your question regarding current 2016 Bond activity, please see the following projects that are currently underway or in the final stages for 2020 and 2021 summer construction:

Currently under way

- 1.) Kettering High School roof (partial)
- 2.) Beaumont Elementary roof (partial)
- 3.) Cooley Elementary roof (partial)
- 4.) Kettering High School Performing Art Center interior work
- 5.) Mott High School Performing Art Center interior work

2020

- 1.) Schoolcraft Elementary gym addition, interior work, and site work (parking lot redesign for traffic flow)
- 2.) Beaumont Elementary interior work
- 3.) Cooley Elementary interior work
- 4.) Grayson Elementary interior work

2021 (contingent on funds available)

- 1.) Riverside Elementary interior work and site work (parking lot redesign for traffic flow)
- 2.) If funds are remaining, then Stepanski site work for parking lot. However, if new bond passes then, Knudsen site work (parking lot redesign for traffic flow) as Stepanski will be part of a greater project under the 2020 bond.

As of November 2019 the District had \$23,877,930 remaining in funds with the majority of the funds committed to the 2020 summer projects. The projects listed above will take us to the end of our 2016 Bond funds. Please let me know if you need any other details.

Sincerely,

William Holbrook,
Assistant Superintendent,
Business and Operations
(248) 682-0524

Enrollment Projections

Waterford School District

63-300

Complete this form after acquiring an enrollment projection report from an approved enrollment projection provider. Official enrollment projections should be based on the most recent fall membership count.

Prepared By **Jeff Atkins, Barton Malow Company**

Source **Stanfred Consultants**

Explanation of Method Selected

Using the 1.5 Projections, expecting enrollments to fall between the Most Likely and High, much closer to the Most Likely -- Three times the Most Likely, plus the High, divided by four.

Subtotals by Grade:

Grade	2014-2015 Preceding 5-Year Enrollment	2019-2020 Current Enrollment	2024-2025 Projected 5-Year Enrollment	(Col 4 - Col 3) / Col 3 Pojected Enrollment Change (%)
1	2	3	4	5
K		653	670	2.57%
1		525	556	5.81%
2		552	538	-2.58%
3		541	545	0.65%
4		516	533	3.20%
5		536	499	-6.90%
6		555	471	-15.18%
7		619	514	-16.96%
8		597	511	-14.36%
9		613	509	-16.92%
10		666	529	-20.61%
11		683	550	-19.47%
12		714	612	-14.29%
Total	9,298	7,770	7,035	-9.46%

Non-general ed student count should not be included in the general ed student count listed above unless discussed with and determined by your enrollment service provider.

WATERFORD SCHOOL DISTRICT	PRELIMINARY - FOR DISCUSSION PURPOSE ONLY	Grades: K-5
2021 BOND PROGRAM		Teaching Stations: 17
BEAUMONT ELEMENTARY	Year Built: 1957	Capacity: 375
6532 Elizabeth Lake	Site Acreage: 10.00	Enrollment:
Building Project Work List	Building Size: 38,444	Date: 12/3/19

Category	Subcategory	Description	Qty.	Unit	Unit Cost	Direct Cost	Total w/ G.C. & escalation	Notes	Category Priority	Series
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SITE WORK

Site Improvements										
		upgrade play areas	1	allo	180,000.00	180,000	\$206,525		3	3
		upgrade fencing	1	allo	75,000.00	75,000	\$86,052		2	3
Site Improvement Subtotal:							\$292,577			
SITE WORK SUBTOTAL:							\$292,577			

REMODELING

Roofing Work										
		replace roof	19,222	sqft	19.00	365,218	\$419,037	built up	3	3
Roofing Work Subtotal:							\$419,037			
Architectural Work										
		abate asbestos/hazardous materials	1	allo	20,000.00	20,000	\$22,947		3	3
		renovate media center	5,000	sqft	125.00	625,000	\$717,101		3	3
Architectural Work Subtotal:							\$740,048			
HVAC Systems										
		add AC to cafeteria	5,000	sqft	25.00	125,000	\$143,420		3	3
		update media center HVAC	1	lpsm	90,000.00	90,000	\$103,263	RTU	3	3
Integrated Automation										
		upgrade temperature controls	1	allo	20,000.00	20,000	\$22,947		3	3
Mechanical Work Subtotal:							\$269,630			
Electrical Work										
Power										
		electrical for mechanical	1	lpsm	25,000.00	25,000	\$28,684		3	3
Electronic Safety and Security										
		upgrade PA system	1	lpsm	15,000.00	15,000	\$17,210		2	3
		upgrade fire alarm	38,444	sqft	2.50	96,110	\$110,273		1	3
Electrical Work Subtotal:							\$156,167			
Construction Subtotal:							\$1,584,882			
Technology Infrastructure										
		upgrade network infrastructure	38,444	sqft	2.50	96,110	\$110,273		1	3
		upgrade cabling	38,444	sqft	0.50	19,222	\$22,055		3	3
Technology Infrastructure Subtotal:							\$132,327			
Technology Safety & Security										
		upgrade access control	38,444	sqft	1.00	38,444	\$44,109		2	3
		upgrade security infrastructure	38,444	sqft	1.00	38,444	\$44,109		2	3
Technology Safety & Security Subtotal:							\$88,218			
Technology & Safety Infrastructure Subtotal:							\$220,546			
REMODELING SUBTOTAL:							\$1,805,428			

INSTRUCTIONAL TECHNOLOGY

Computers & Mobile Devices										
		purchase devices	38,444	sqft	2.50	96,110	\$97,071		1	2
		devices - refresh	1	allo	100,000.00	100,000	\$101,000		3	3
Audio / Visual										
		purchase AV devices	38,444	sqft	2.50	96,110	\$97,071		1	2
		av - refresh	1	allo	100,000.00	100,000	\$101,000		3	3
INSTRUCTIONAL TECHNOLOGY SUBTOTAL:							\$396,142			

LOOSE FURNISHINGS & EQUIPMENT

Furnishings, Furniture & Equipment										
		purchase furniture	1	allo	50,000.00	50,000	\$50,000		3	3
		purchase classroom furniture	20	each	10,000.00	200,000	\$200,000		3	3
		purchase media center furniture	1	allo	75,000.00	75,000	\$75,000		3	3
F, F & E Subtotal:							\$325,000			
LOOSE FURNISHINGS & EQUIPMENT SUBTOTAL:							\$325,000			

BUILDING TOTAL:							\$2,819,147	3,421,119		
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Notes:	Construction Contingency:	\$249,415
escalation calculated to mid-point of project	Design Consultants:	\$202,550
general conditions (G.C.) include; testing, permits, & temp items	Construction Manager:	\$150,007
indirect costs include contingency and professional fees	PROJECT TOTAL:	\$3,421,119

Building Utilization

School Building Name

Beaumont Elementary School

Project No. 1

Current Grade Structure K-5
Proposed Grade Structure K-5

1. List the number of teaching stations in appropriate column.
2. Calculate total capacity using the applicable capacity factor.
3. Enter five (5) year projected enrollment.
4. Calculate building utilization rate.
5. Attach floor plan of the building. Show the rooms and category (existing, proposed new, closed).
6. Number the teaching stations in consecutive order.

Existing	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary	10	20	200
(3-5) Upper Elementary	7	25	175
(6-8) Junior High		22.5	0
(9-12) High School		21.25	0
Subtotal	17		375

Proposed New	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary		20	0
(3-5) Upper Elementary		25	0
(6-8) Junior High		22.5	0
(9-12) High School		21.25	0
Subtotal	0		0

Total	17		375
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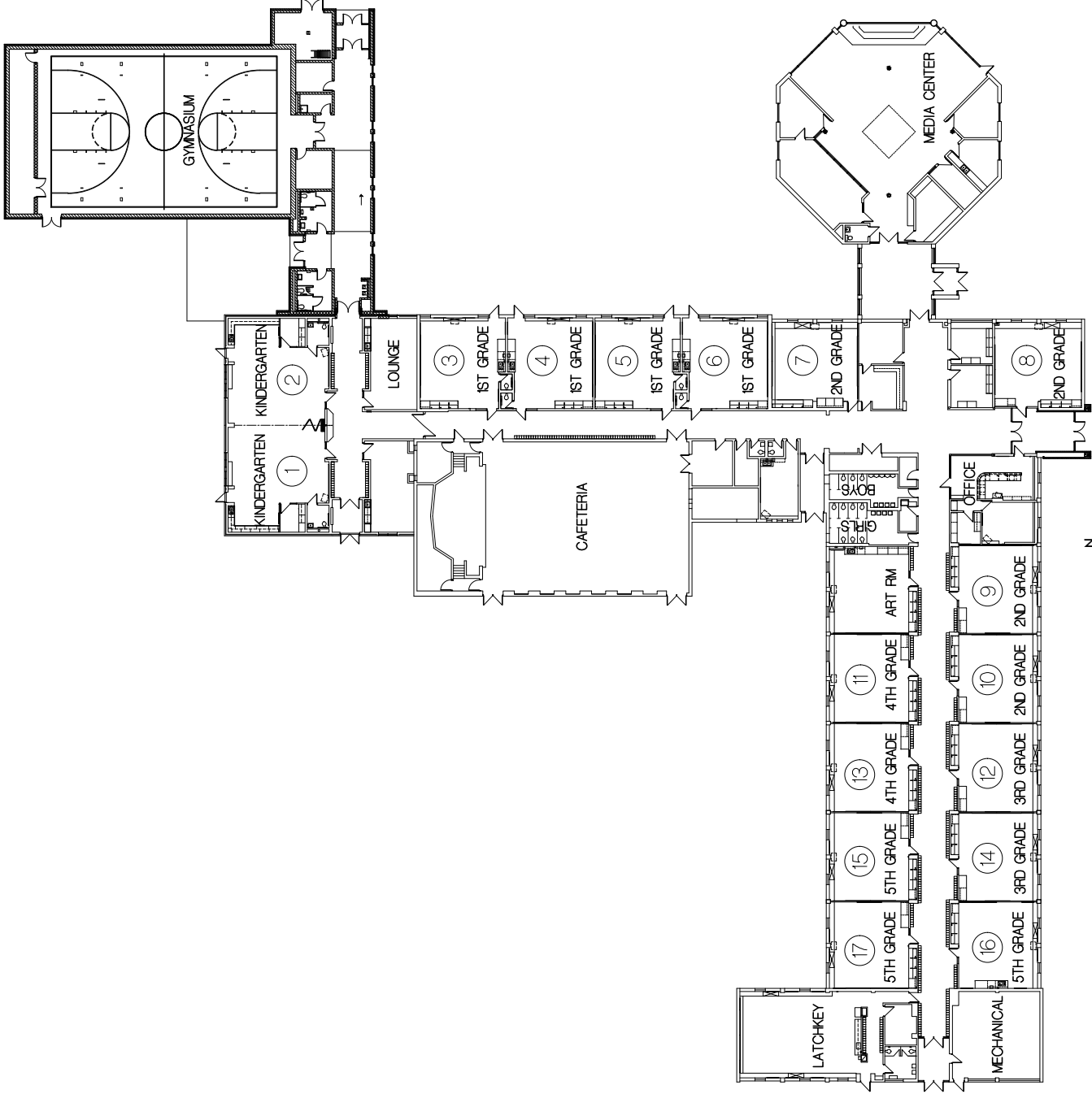
Facility to be Closed	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary		20	0
(3-5) Upper Elementary		25	0
(6-8) Junior High		22.5	0
(9-12) High School		21.25	0
Total	0		0

Projected 5-Year Enrollment 355

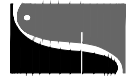
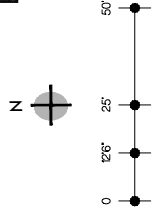
Utilization Percentage 95%

(Projected 5-Year Enrollment / Total Capacity)

Please transfer applicable information to the Utilization Summary on Page 6 of the application.



STUDENT CAPACITY	
10 CR x 20 STUD.	- 200 TS
7 CR x 25 STUD.	- 175 TS
TOTAL	- 375 TS



architect planners interior

WATERFORD SCHOOL DISTRICT
 beaumont elementary school
composite plan
 december, 2019

WATERFORD SCHOOL DISTRICT	PRELIMINARY - FOR DISCUSSION PURPOSE ONLY	Grades: K-5
2021 BOND PROGRAM		Teaching Stations: 18
COOLEY ELEMENTARY	Year Built: 1958	Capacity: 400
2000 Highfield Street	Site Acreage: 10.00	Enrollment:
Building Project Work List	Building Size: 45,700	Date: 12/3/19

Category	Subcategory	Qty.	Unit	Unit Cost	Direct Cost	Total w/ G.C. & escalation	Notes	Category Priority	Series
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SITE WORK

Site Improvements

upgrade play areas	1	allo	180,000.00	180,000	\$206,525			3	3
upgrade fencing	1	allo	75,000.00	75,000	\$86,052			2	3
Site Improvement Subtotal:					\$292,577				
SITE WORK SUBTOTAL:					\$292,577				

REMODELING

Roofing Work

replace roof	22,850	sqft	19.00	434,150	\$498,127	built up		3	3
Roofing Work Subtotal:					\$498,127				

Architectural Work

abate asbestos/hazardous materials	1	allo	20,000.00	20,000	\$22,947			3	3
renovate media center	5,000	sqft	125.00	625,000	\$717,101			3	3
Architectural Work Subtotal:					\$740,048				

Mechanical Work

HVAC Systems

add AC to cafeteria	5,000	sqft	25.00	125,000	\$143,420			3	3
update media center HVAC	1	lpsm	90,000.00	90,000	\$103,263	RTU		3	3

Integrated Automation

upgrade temperature controls	1	allo	20,000.00	20,000	\$22,947			3	3
Mechanical Work Subtotal:					\$269,630				

Electrical Work

Power

electrical for mechanical	1	lpsm	25,000.00	25,000	\$28,684			3	3
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Electronic Safety and Security

upgrade PA system	1	lpsm	15,000.00	15,000	\$17,210			2	3
upgrade fire alarm	45,700	sqft	2.50	114,250	\$131,086			1	3
Electrical Work Subtotal:					\$176,980				

Construction Subtotal: \$1,684,785

Technology Infrastructure

upgrade network infrastructure	45,700	sqft	2.50	114,250	\$131,086			1	3
upgrade cabling	45,700	sqft	0.50	22,850	\$26,217			3	3
Technology Infrastructure Subtotal:					\$157,303				

Technology Safety & Security

upgrade access control	45,700	sqft	1.00	45,700	\$52,434			2	3
upgrade security infrastructure	45,700	sqft	1.00	45,700	\$52,434			2	3
Technology Safety & Security Subtotal:					\$104,869				

Technology & Safety Infrastructure Subtotal: \$262,172

REMODELING SUBTOTAL: \$1,946,957

INSTRUCTIONAL TECHNOLOGY

Computers & Mobile Devices

purchase devices	45,700	sqft	2.50	114,250	\$115,393			1	2
devices - refresh	1	allo	100,000.00	100,000	\$101,000			3	3

Audio / Visual

purchase AV devices	45,700	sqft	2.50	114,250	\$115,393			1	2
av - refresh	1	allo	100,000.00	100,000	\$101,000			3	3
INSTRUCTIONAL TECHNOLOGY SUBTOTAL:					\$432,785				

LOOSE FURNISHINGS & EQUIPMENT

Furnishings, Furniture & Equipment

purchase furniture	1	allo	50,000.00	50,000	\$50,000			3	3
purchase classroom furniture	20	each	10,000.00	200,000	\$200,000			3	3
purchase media center furniture	1	allo	75,000.00	75,000	\$75,000			3	3
F, F & E Subtotal:					\$325,000				

LOOSE FURNISHINGS & EQUIPMENT SUBTOTAL: \$325,000

BUILDING TOTAL: \$2,997,319 **3,641,656**

Notes:	Construction Contingency:	\$267,232
escalation calculated to mid-point of project	Design Consultants:	\$216,977
general conditions (G.C.) include; testing, permits, & temp items	Construction Manager:	\$160,127
indirect costs include contingency and professional fees	PROJECT TOTAL:	\$3,641,656

Building Utilization

School Building Name

Cooley Elementary School

Project No. 2

Current Grade Structure K-5
Proposed Grade Structure K-5

1. List the number of teaching stations in appropriate column.
2. Calculate total capacity using the applicable capacity factor.
3. Enter five (5) year projected enrollment.
4. Calculate building utilization rate.
5. Attach floor plan of the building. Show the rooms and category (existing, proposed new, closed).
6. Number the teaching stations in consecutive order.

Existing	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary	10	20	200
(3-5) Upper Elementary	8	25	200
(6-8) Junior High		22.5	0
(9-12) High School		21.25	0
Subtotal	18		400

Proposed New	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary		20	0
(3-5) Upper Elementary		25	0
(6-8) Junior High		22.5	0
(9-12) High School		21.25	0
Subtotal	0		0

Total	18		400
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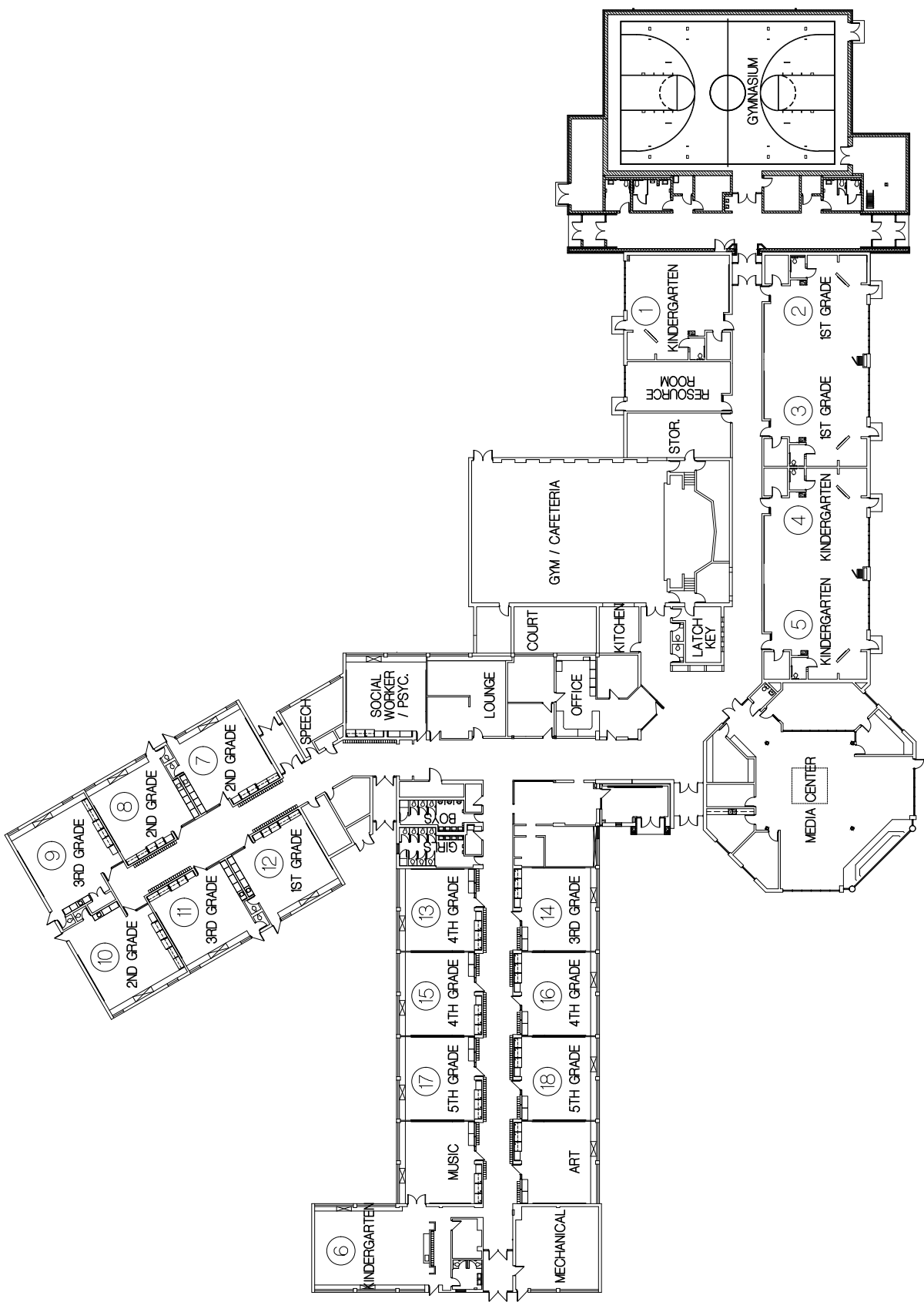
Facility to be Closed	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary		20	0
(3-5) Upper Elementary		25	0
(6-8) Junior High		22.5	0
(9-12) High School		21.25	0
Total	0		0

Projected 5-Year Enrollment 380

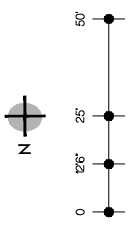
Utilization Percentage 95%

(Projected 5-Year Enrollment / Total Capacity)

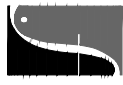
Please transfer applicable information to the Utilization Summary on Page 6 of the application.



STUDENT CAPACITY	
10 CR x 20 STUD.	- 200 TS
8 CR x 25 STUD.	- 200 TS
TOTAL	- 400 TS



architect: plannes interiors



FRENCH ASSOCIATES

WATERFORD SCHOOL DISTRICT
 cooley elementary school

composite plan

december, 2019

WATERFORD SCHOOL DISTRICT	PRELIMINARY - FOR DISCUSSION PURPOSE ONLY	Grades: K-5
2021 BOND PROGRAM		Teaching Stations: 20
DONELSON HILLS ELEMENTARY	Year Built: 1966	Capacity: 450
2690 Wewoka	Site Acreage: 10.00	Enrollment:
Building Project Work List	Building Size: 53,000	Date: 12/3/19

Category	Subcategory	Description	Qty.	Unit	Unit Cost	Direct Cost	Total w/ G.C. & escalation	Notes	Category Priority	Series
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SITE WORK

Site Improvements										
		upgrade play areas	1	allo	180,000.00	180,000	\$206,525		3	3
		upgrade fencing	1	allo	75,000.00	75,000	\$86,052		2	3
Site Improvement Subtotal:							\$292,577			
SITE WORK SUBTOTAL:							\$292,577			

REMODELING

Roofing Work										
		replace roof	26,500	sqft	19.00	503,500	\$577,696	built up	3	3
Roofing Work Subtotal:							\$577,696			

Architectural Work										
		abate asbestos/hazardous materials	1	allo	50,000.00	50,000	\$57,368		3	3
		renovate media center	5,000	sqft	125.00	625,000	\$717,101		3	3
Architectural Work Subtotal:							\$774,469			

Mechanical Work										
HVAC Systems										
		replace boiler system	1	lpsm	300,000.00	300,000	\$344,208	1965	1	3
		add AC to cafeteria	5,000	sqft	25.00	125,000	\$143,420		3	3
		update media center HVAC	1	lpsm	90,000.00	90,000	\$103,263	RTU	3	3
Integrated Automation										
		upgrade temperature controls	1	allo	20,000.00	20,000	\$22,947		3	3
Mechanical Work Subtotal:							\$613,838			

Electrical Work										
Power										
		electrical for mechanical	1	lpsm	25,000.00	25,000	\$28,684		3	3
Electronic Safety and Security										
		upgrade PA system	1	lpsm	15,000.00	15,000	\$17,210		2	3
		upgrade fire alarm	53,000	sqft	2.50	132,500	\$152,025		1	3
Electrical Work Subtotal:							\$197,920			
Construction Subtotal:							\$2,163,923			

Technology Infrastructure										
		upgrade network infrastructure	53,000	sqft	2.50	132,500	\$152,025		1	3
		upgrade cabling	53,000	sqft	0.50	26,500	\$30,405		3	3
Technology Infrastructure Subtotal:							\$182,430			

Technology Safety & Security										
		upgrade access control	53,000	sqft	1.00	53,000	\$60,810		2	3
		upgrade security infrastructure	53,000	sqft	1.00	53,000	\$60,810		2	3
Technology Safety & Security Subtotal:							\$121,620			
Technology & Safety Infrastructure Subtotal:							\$304,051			
REMODELING SUBTOTAL:							\$2,467,974			

INSTRUCTIONAL TECHNOLOGY

Computers & Mobile Devices										
		purchase devices	53,000	sqft	2.50	132,500	\$133,825		1	2
		devices - refresh	1	allo	100,000.00	100,000	\$101,000		3	3

Audio / Visual										
		purchase AV devices	53,000	sqft	2.50	132,500	\$133,825		1	2
		av - refresh	1	allo	100,000.00	100,000	\$101,000		3	3
INSTRUCTIONAL TECHNOLOGY SUBTOTAL:							\$469,650			

LOOSE FURNISHINGS & EQUIPMENT

Furnishings, Furniture & Equipment										
		purchase furniture	1	allo	50,000.00	50,000	\$50,000		3	3
		purchase classroom furniture	20	each	10,000.00	200,000	\$200,000		3	3
		purchase media center furniture	1	allo	75,000.00	75,000	\$75,000		3	3

F, F & E Subtotal:							\$325,000			
LOOSE FURNISHINGS & EQUIPMENT SUBTOTAL:							\$325,000			

BUILDING TOTAL: \$3,555,201 4,338,143

Notes:	Construction Contingency:	\$323,020
escalation calculated to mid-point of project	Design Consultants:	\$262,542
general conditions (G.C.) include; testing, permits, & temp items	Construction Manager:	\$197,379
indirect costs include contingency and professional fees	PROJECT TOTAL:	\$4,338,143

Building Utilization

School Building Name

Donelson Hills Elementary School

Project No. 3

Current Grade Structure K-5
Proposed Grade Structure K-5

1. List the number of teaching stations in appropriate column.
2. Calculate total capacity using the applicable capacity factor.
3. Enter five (5) year projected enrollment.
4. Calculate building utilization rate.
5. Attach floor plan of the building. Show the rooms and category (existing, proposed new, closed).
6. Number the teaching stations in consecutive order.

Existing	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary	10	20	200
(3-5) Upper Elementary	10	25	250
(6-8) Junior High		22.5	0
(9-12) High School		21.25	0
Subtotal	20		450

Proposed New	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary		20	0
(3-5) Upper Elementary		25	0
(6-8) Junior High		22.5	0
(9-12) High School		21.25	0
Subtotal	0		0

Total	20		450
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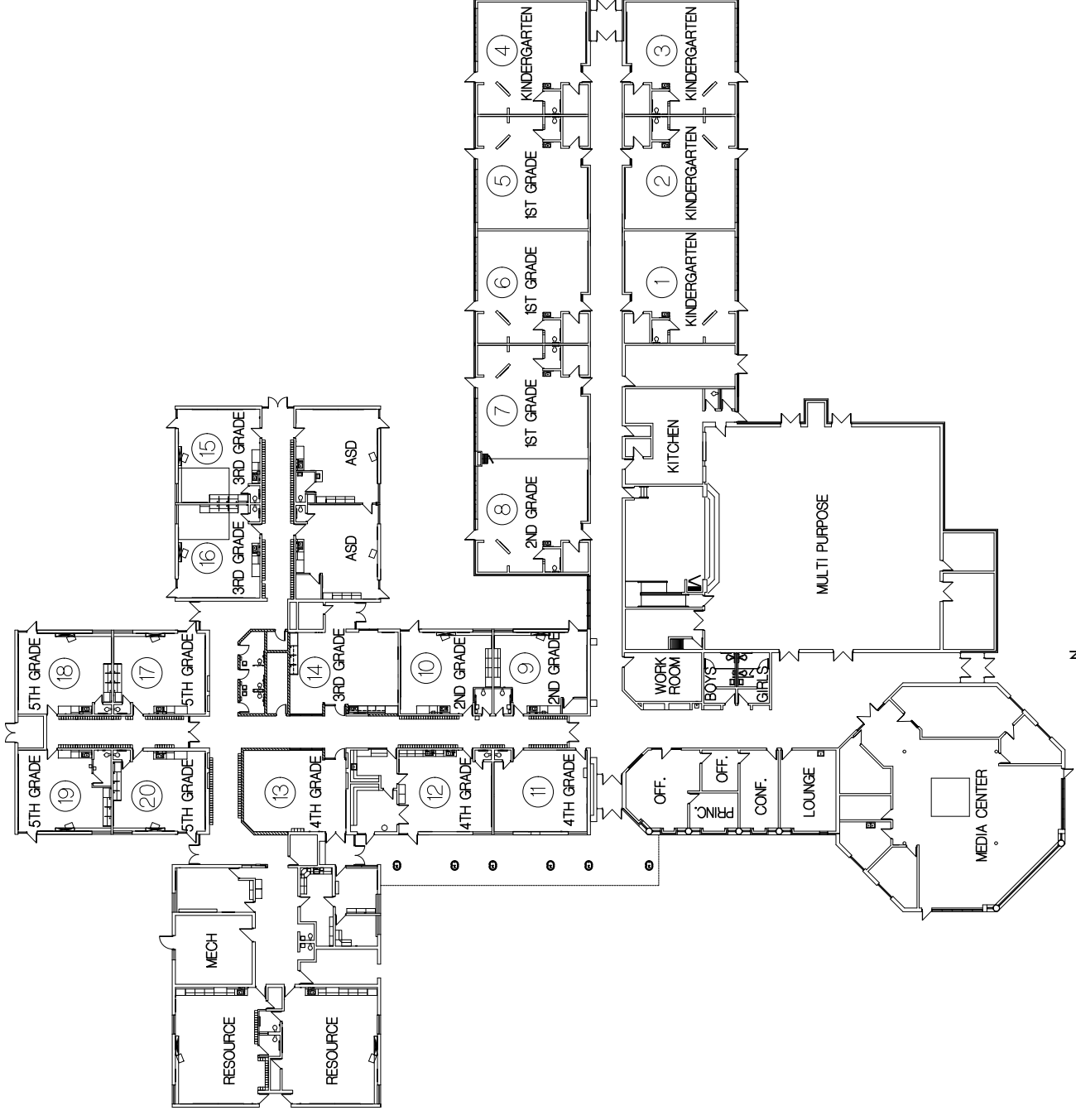
Facility to be Closed	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary		20	0
(3-5) Upper Elementary		25	0
(6-8) Junior High		22.5	0
(9-12) High School		21.25	0
Total	0		0

Projected 5-Year Enrollment 429

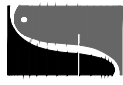
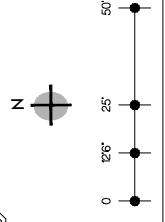
Utilization Percentage 95%

(Projected 5-Year Enrollment / Total Capacity)

Please transfer applicable information to the Utilization Summary on Page 6 of the application.



STUDENT CAPACITY	
10 CR x 20 STUD.	- 200 TS
10 CR x 25 STUD.	- 250 TS
TOTAL	- 450 TS



WATERFORD SCHOOL DISTRICT
donelson hills elementary school
composite plan
 december, 2019

WATERFORD SCHOOL DISTRICT	PRELIMINARY - FOR DISCUSSION PURPOSE ONLY	Grades: K-5
2021 BOND PROGRAM		Teaching Stations: 22
GRAYSON ELEMENTARY	Year Built: 1959	Capacity: 500
3800 W. Walton Blvd.	Site Acreage: 7.00	Enrollment:
Building Project Work List	Building Size: 42,259	Date: 12/3/19

Category	Subcategory	Description	Qty.	Unit	Unit Cost	Direct Cost	Total w/ G.C. & escalation	Notes	Category Priority	Series
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SITE WORK

Site Improvements										
		upgrade play areas	1	allo	180,000.00	180,000	\$206,525		3	3
		upgrade fencing	1	allo	75,000.00	75,000	\$86,052		2	3
Site Improvement Subtotal:							\$292,577			
SITE WORK SUBTOTAL:							\$292,577			

REMODELING

Roofing Work										
		replace roof	21,130		19.00	401,461	\$460,620		3	3
Roofing Work Subtotal:							\$460,620			
Architectural Work										
		abate asbestos/hazardous materials	1	allo	20,000.00	20,000	\$22,947		3	3
		renovate media center	5,000	sqft	125.00	625,000	\$717,101		3	3
Architectural Work Subtotal:							\$740,048			
Mechanical Work										
HVAC Systems										
		add AC to cafeteria	5,000	sqft	25.00	125,000	\$143,420		3	3
		update media center HVAC	1	lpsm	90,000.00	90,000	\$103,263	RTU	3	3
Integrated Automation										
		upgrade temperature controls	1	allo	20,000.00	20,000	\$22,947		3	3
Mechanical Work Subtotal:							\$269,630			
Electrical Work										
Power										
		electrical for mechanical	1	lpsm	25,000.00	25,000	\$28,684		3	3
Electronic Safety and Security										
		upgrade PA system	1	lpsm	15,000.00	15,000	\$17,210		2	3
		upgrade fire alarm	42,259	sqft	2.50	105,648	\$121,216		1	3
Electrical Work Subtotal:							\$167,110			
Construction Subtotal:							\$1,637,408			
Technology Infrastructure										
		upgrade network infrastructure	42,259	sqft	2.50	105,648	\$121,216		1	3
		upgrade cabling	42,259	sqft	0.50	21,130	\$24,243		3	3
Technology Infrastructure Subtotal:							\$145,459			
Technology Safety & Security										
		upgrade access control	42,259	sqft	1.00	42,259	\$48,486		2	3
		upgrade security infrastructure	42,259	sqft	1.00	42,259	\$48,486		2	3
Technology Safety & Security Subtotal:							\$96,973			
Technology & Safety Infrastructure Subtotal:							\$242,432			
REMODELING SUBTOTAL:							\$1,879,840			

INSTRUCTIONAL TECHNOLOGY

Computers & Mobile Devices										
		purchase devices	42,259	sqft	2.50	105,648	\$106,704		1	2
		devices - refresh	1	allo	100,000.00	100,000	\$101,000		3	3
Audio / Visual										
		purchase AV devices	42,259	sqft	2.50	105,648	\$106,704		1	2
		av - refresh	1	allo	100,000.00	100,000	\$101,000		3	3
INSTRUCTIONAL TECHNOLOGY SUBTOTAL:							\$415,408			

LOOSE FURNISHINGS & EQUIPMENT

Furnishings, Furniture & Equipment										
		purchase furniture	1	allo	50,000.00	50,000	\$50,000		3	3
		purchase classroom furniture	20	each	10,000.00	200,000	\$200,000		3	3
		purchase media center furniture	1	allo	75,000.00	75,000	\$75,000		3	3
F, F & E Subtotal:							\$325,000			
LOOSE FURNISHINGS & EQUIPMENT SUBTOTAL:							\$325,000			

BUILDING TOTAL: \$2,912,825 3,537,071

Notes:	Construction Contingency:	\$258,783
escalation calculated to mid-point of project	Design Consultants:	\$210,135
general conditions (G.C.) include; testing, permits, & temp items	Construction Manager:	\$155,328
indirect costs include contingency and professional fees	PROJECT TOTAL:	\$3,537,071

Building Utilization

School Building Name

Grayson Elementary School

Project No. 4

Current Grade Structure K-5
Proposed Grade Structure K-5

1. List the number of teaching stations in appropriate column.
2. Calculate total capacity using the applicable capacity factor.
3. Enter five (5) year projected enrollment.
4. Calculate building utilization rate.
5. Attach floor plan of the building. Show the rooms and category (existing, proposed new, closed).
6. Number the teaching stations in consecutive order.

Existing	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary	10	20	200
(3-5) Upper Elementary	12	25	300
(6-8) Junior High		22.5	0
(9-12) High School		21.25	0
Subtotal	22		500

Proposed New	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary		20	0
(3-5) Upper Elementary		25	0
(6-8) Junior High		22.5	0
(9-12) High School		21.25	0
Subtotal	0		0

Total	22		500
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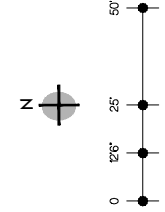
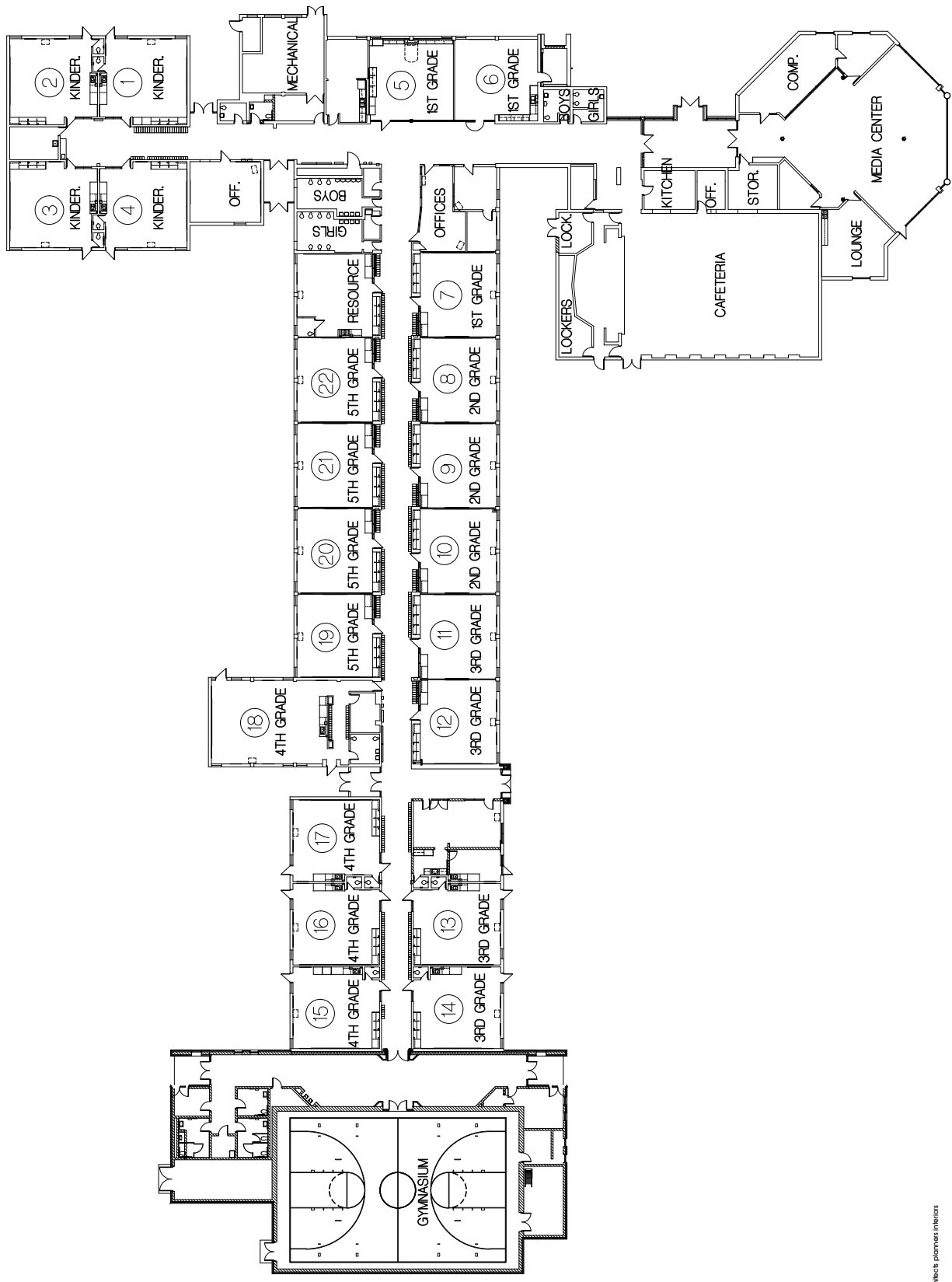
Facility to be Closed	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary		20	0
(3-5) Upper Elementary		25	0
(6-8) Junior High		22.5	0
(9-12) High School		21.25	0
Total	0		0

Projected 5-Year Enrollment 475

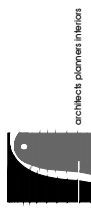
Utilization Percentage 95%

(Projected 5-Year Enrollment / Total Capacity)

Please transfer applicable information to the Utilization Summary on Page 6 of the application.



STUDENT CAPACITY
 10 CR x 20 STUD. - 200 TS
 12 CR x 25 STUD. - 300 TS
 TOTAL - 500 TS



WATERFORD SCHOOL DISTRICT
 grayson elementary school
composite plan
 december, 2019

WATERFORD SCHOOL DISTRICT	PRELIMINARY - FOR DISCUSSION PURPOSE ONLY	Grades: K-5
2021 BOND PROGRAM		Teaching Stations: 14
HAVILAND ELEMENTARY	Year Built: 1959	Capacity: 315
5305 Cass Elizabeth	Site Acreage: 11.00	Enrollment:
Building Project Work List	Building Size: 48,075	Date: 12/3/19

Category	Subcategory	Description	Qty.	Unit	Unit Cost	Direct Cost	Total w/ G.C. & escalation	Notes	Category Priority	Series
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SITE WORK

Site Improvements										
		upgrade play areas	1	allo	180,000.00	180,000	\$206,525		3	3
		upgrade fencing	1	allo	75,000.00	75,000	\$86,052		2	3
Site Improvement Subtotal:							\$292,577			
SITE WORK SUBTOTAL:							\$292,577			

REMODELING

Roofing Work										
		replace roof	24,038	sqft	19.00	456,713	\$524,014	built up	3	3
Roofing Work Subtotal:							\$524,014			
Architectural Work										
		abate asbestos/hazardous materials	1	allo	20,000.00	20,000	\$22,947		3	3
		renovate media center	5,000	sqft	125.00	625,000	\$717,101		3	3
Architectural Work Subtotal:							\$740,048			
Mechanical Work										
HVAC Systems										
		add AC to cafeteria	5,000	sqft	25.00	125,000	\$143,420		3	3
		update media center HVAC	1	lpsm	90,000.00	90,000	\$103,263	RTU	3	3
Integrated Automation										
		upgrade temperature controls	1	allo	20,000.00	20,000	\$22,947		3	3
Mechanical Work Subtotal:							\$269,630			
Electrical Work										
Power										
		electrical for mechanical	1	lpsm	25,000.00	25,000	\$28,684		3	3
Electronic Safety and Security										
		upgrade PA system	1	lpsm	15,000.00	15,000	\$17,210		2	3
		upgrade fire alarm	48,075	sqft	2.50	120,188	\$137,898		1	3
Electrical Work Subtotal:							\$183,793			
Construction Subtotal:							\$1,717,485			
Technology Infrastructure										
		upgrade network infrastructure	48,075	sqft	2.50	120,188	\$137,898		1	3
		upgrade cabling	48,075	sqft	0.50	24,038	\$27,580		3	3
Technology Infrastructure Subtotal:							\$165,478			
Technology Safety & Security										
		upgrade access control	48,075	sqft	1.00	48,075	\$55,159		2	3
		upgrade security infrastructure	48,075	sqft	1.00	48,075	\$55,159		2	3
Technology Safety & Security Subtotal:							\$110,319			
Technology & Safety Infrastructure Subtotal:							\$275,797			
REMODELING SUBTOTAL:							\$1,993,282			

INSTRUCTIONAL TECHNOLOGY

Computers & Mobile Devices										
		purchase devices	48,075	sqft	2.50	120,188	\$121,389		1	2
		devices - refresh	1	allo	100,000.00	100,000	\$101,000		3	3
Audio / Visual										
		purchase AV devices	48,075	sqft	2.50	120,188	\$121,389		1	2
		av - refresh	1	allo	100,000.00	100,000	\$101,000		3	3
INSTRUCTIONAL TECHNOLOGY SUBTOTAL:							\$444,779			

LOOSE FURNISHINGS & EQUIPMENT

Furnishings, Furniture & Equipment										
		purchase furniture	1	allo	50,000.00	50,000	\$50,000		3	3
		purchase classroom furniture	20	each	10,000.00	200,000	\$200,000		3	3
		purchase media center furniture	1	allo	75,000.00	75,000	\$75,000		3	3
F, F & E Subtotal:							\$325,000			
LOOSE FURNISHINGS & EQUIPMENT SUBTOTAL:							\$325,000			

BUILDING TOTAL: \$3,055,638 3,713,841

Notes:	Construction Contingency:	\$273,064
escalation calculated to mid-point of project	Design Consultants:	\$221,700
general conditions (G.C.) include; testing, permits, & temp items	Construction Manager:	\$163,439
indirect costs include contingency and professional fees	PROJECT TOTAL:	\$3,713,841

Building Utilization

School Building Name

Haviland Elementary School

Project No. 5

Current Grade Structure K-5
 Proposed Grade Structure K-5

1. List the number of teaching stations in appropriate column.
2. Calculate total capacity using the applicable capacity factor.
3. Enter five (5) year projected enrollment.
4. Calculate building utilization rate.
5. Attach floor plan of the building. Show the rooms and category (existing, proposed new, closed).
6. Number the teaching stations in consecutive order.

Existing	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary	7	20	140
(3-5) Upper Elementary	7	25	175
(6-8) Junior High		22.5	0
(9-12) High School		21.25	0
Subtotal	14		315

Proposed New	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary		20	0
(3-5) Upper Elementary		25	0
(6-8) Junior High		22.5	0
(9-12) High School		21.25	0
Subtotal	0		0

Total	14		315
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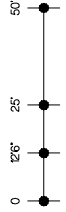
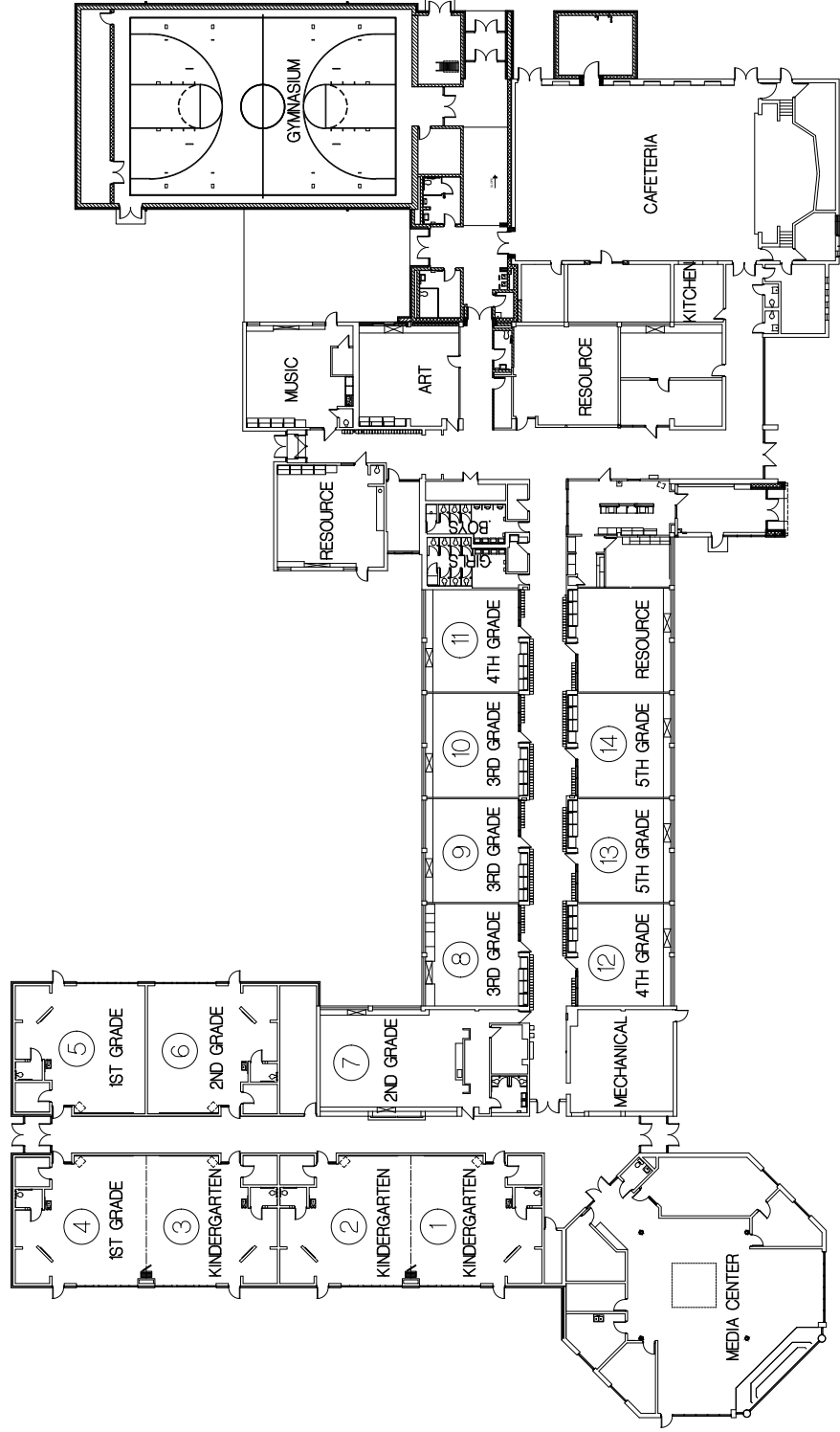
Facility to be Closed	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary		20	0
(3-5) Upper Elementary		25	0
(6-8) Junior High		22.5	0
(9-12) High School		21.25	0
Total	0		0

Projected 5-Year Enrollment 300

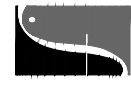
Utilization Percentage 95%

(Projected 5-Year Enrollment / Total Capacity)

Please transfer applicable information to the Utilization Summary on Page 6 of the application.



STUDENT CAPACITY	
7 CR x 20 STUD.	- 140 TS
7 CR x 25 STUD.	- 175 TS
TOTAL	- 315 TS



architect planners interior

WATERFORD SCHOOL DISTRICT
 haviland elementary school
composite plan
 december, 2019

Project Sheet

Houghton Elementary School
Project No. 6

Description of Series 1	n/a
Description of Series 2	purchase instructional technology
Description of Series 3	site work, roofing, renovations, mechanical equipment, fire alarm, upgrade technology infrastructure, purchase instructional technology and furniture
Instructional Technology Description	purchase student devices and classroom audio visual systems
Site Work Description	upgrade playground and fencing

Construction Cost Per Square Foot

New Construction Square Ft.	n/a	Cost per Sq Ft	n/a
New Addition Square Ft.	n/a	Cost per Sq Ft	n/a

Statement describing any existing environmental or usability problems the proposed project will address. (ex: asbestos, energy use, or ADA requirements)

abate asbestos materials and upgrade temperature control panel

Estimated Cost of Proposed Construction Project

Column1	Series 1	Series 2	Series 3	Total
New Construction	\$0	\$0	\$0	\$0
Remodeling	\$0	\$0	\$2,130,208	\$2,130,208
Construction Contingencies	\$0	\$27,823	\$262,479	\$290,302
Instructional Technology	\$0	\$278,230	\$202,000	\$480,230
Loose Furnishing/Equipment	\$0	\$0	\$325,000	\$325,000
Buses	\$0	\$0	\$0	\$0
Site Work	\$0	\$0	\$292,577	\$292,577
Site Acquisition	\$0	\$0	\$0	\$0
Architectural Fees and Costs	\$0	\$21,424	\$214,235	\$235,658
CM Fees and Costs	\$0	\$0	\$173,229	\$173,229
Estimated Costs	\$0	\$327,476	\$3,599,727	\$3,927,204

Certificate by Registered Architect

I certify that I have assessed the conditions relative to this facility and the details of the proposed project(s) described above and the attached detail relative to the construction project(s) are true and correct to the best of my knowledge and belief.

Signature	12/10/2019	French Associates	1301031750
	Date	Firm Name and License Number	

Paul A. Corneliussen, AIA	paulc@frenchaia.com	248-656-1377
Printed Name	E-mail Address	Phone Number

WATERFORD SCHOOL DISTRICT	PRELIMINARY - FOR DISCUSSION PURPOSE ONLY	Grades: K-5
2021 BOND PROGRAM		Teaching Stations: 19
HOUGHTON ELEMENTARY	Year Built: 1961	Capacity: 430
8080 Elizabeth Lake	Site Acreage: 12.00	Enrollment:
Building Project Work List	Building Size: 55,095	Date: 12/3/19

Category	Subcategory	Description	Qty.	Unit	Unit Cost	Direct Cost	Total w/ G.C. & escalation	Notes	Category Priority	Series
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SITE WORK

Site Improvements

upgrade play areas	1	allo	180,000.00	180,000	\$206,525				3	3
upgrade fencing	1	allo	75,000.00	75,000	\$86,052				2	3
Site Improvement Subtotal:							\$292,577			
SITE WORK SUBTOTAL:							\$292,577			

REMODELING

Roofing Work

replace roof	27,548	sqft	19.00	523,403	\$600,532	built up			3	3
Roofing Work Subtotal:							\$600,532			

Architectural Work

abate asbestos/hazardous materials	1	allo	20,000.00	20,000	\$22,947				3	3
renovate media center	5,000	sqft	125.00	625,000	\$717,101				3	3
Architectural Work Subtotal:							\$740,048			

Mechanical Work

HVAC Systems

add AC to cafeteria	5,000	sqft	25.00	125,000	\$143,420				3	3
update media center HVAC	1	lpsm	90,000.00	90,000	\$103,263	RTU			3	3

Integrated Automation

upgrade temperature controls	1	allo	20,000.00	20,000	\$22,947				3	3
Mechanical Work Subtotal:							\$269,630			

Electrical Work

Power

electrical for mechanical	1	lpsm	25,000.00	25,000	\$28,684				3	3
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Electronic Safety and Security

upgrade PA system	1	lpsm	15,000.00	15,000	\$17,210				2	3
upgrade fire alarm	55,095	sqft	2.50	137,738	\$158,035				1	3
Electrical Work Subtotal:							\$203,929			

Construction Subtotal: \$1,814,139

Technology Infrastructure

upgrade network infrastructure	55,095	sqft	2.50	137,738	\$158,035				1	3
upgrade cabling	55,095	sqft	0.50	27,548	\$31,607				3	3
Technology Infrastructure Subtotal:							\$189,642			

Technology Safety & Security

upgrade access control	55,095	sqft	1.00	55,095	\$63,214				2	3
upgrade security infrastructure	55,095	sqft	1.00	55,095	\$63,214				2	3
Technology Safety & Security Subtotal:							\$126,428			

Technology & Safety Infrastructure Subtotal: \$316,069

REMODELING SUBTOTAL: \$2,130,208

INSTRUCTIONAL TECHNOLOGY

Computers & Mobile Devices

purchase devices	55,095	sqft	2.50	137,738	\$139,115				1	2
devices - refresh	1	allo	100,000.00	100,000	\$101,000				3	3

Audio / Visual

purchase AV devices	55,095	sqft	2.50	137,738	\$139,115				1	2
av - refresh	1	allo	100,000.00	100,000	\$101,000				3	3
INSTRUCTIONAL TECHNOLOGY SUBTOTAL:							\$480,230			

LOOSE FURNISHINGS & EQUIPMENT

Furnishings, Furniture & Equipment

purchase furniture	1	allo	50,000.00	50,000	\$50,000				3	3
purchase classroom furniture	20	each	10,000.00	200,000	\$200,000				3	3
purchase media center furniture	1	allo	75,000.00	75,000	\$75,000				3	3
F, F & E Subtotal:							\$325,000			

LOOSE FURNISHINGS & EQUIPMENT SUBTOTAL: \$325,000

BUILDING TOTAL: \$3,228,015 3,927,204

Notes:	Construction Contingency:	\$290,302
escalation calculated to mid-point of project	Design Consultants:	\$235,658
general conditions (G.C.) include; testing, permits, & temp items	Construction Manager:	\$173,229
indirect costs include contingency and professional fees	PROJECT TOTAL:	\$3,927,204

Building Utilization

School Building Name

Houghton Elementary School

Project No. 6

Current Grade Structure K-5
Proposed Grade Structure K-5

1. List the number of teaching stations in appropriate column.
2. Calculate total capacity using the applicable capacity factor.
3. Enter five (5) year projected enrollment.
4. Calculate building utilization rate.
5. Attach floor plan of the building. Show the rooms and category (existing, proposed new, closed).
6. Number the teaching stations in consecutive order.

Existing	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary	9	20	180
(3-5) Upper Elementary	10	25	250
(6-8) Junior High		22.5	0
(9-12) High School		21.25	0
Subtotal	19		430

Proposed New	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary		20	0
(3-5) Upper Elementary		25	0
(6-8) Junior High		22.5	0
(9-12) High School		21.25	0
Subtotal	0		0

Total	19		430
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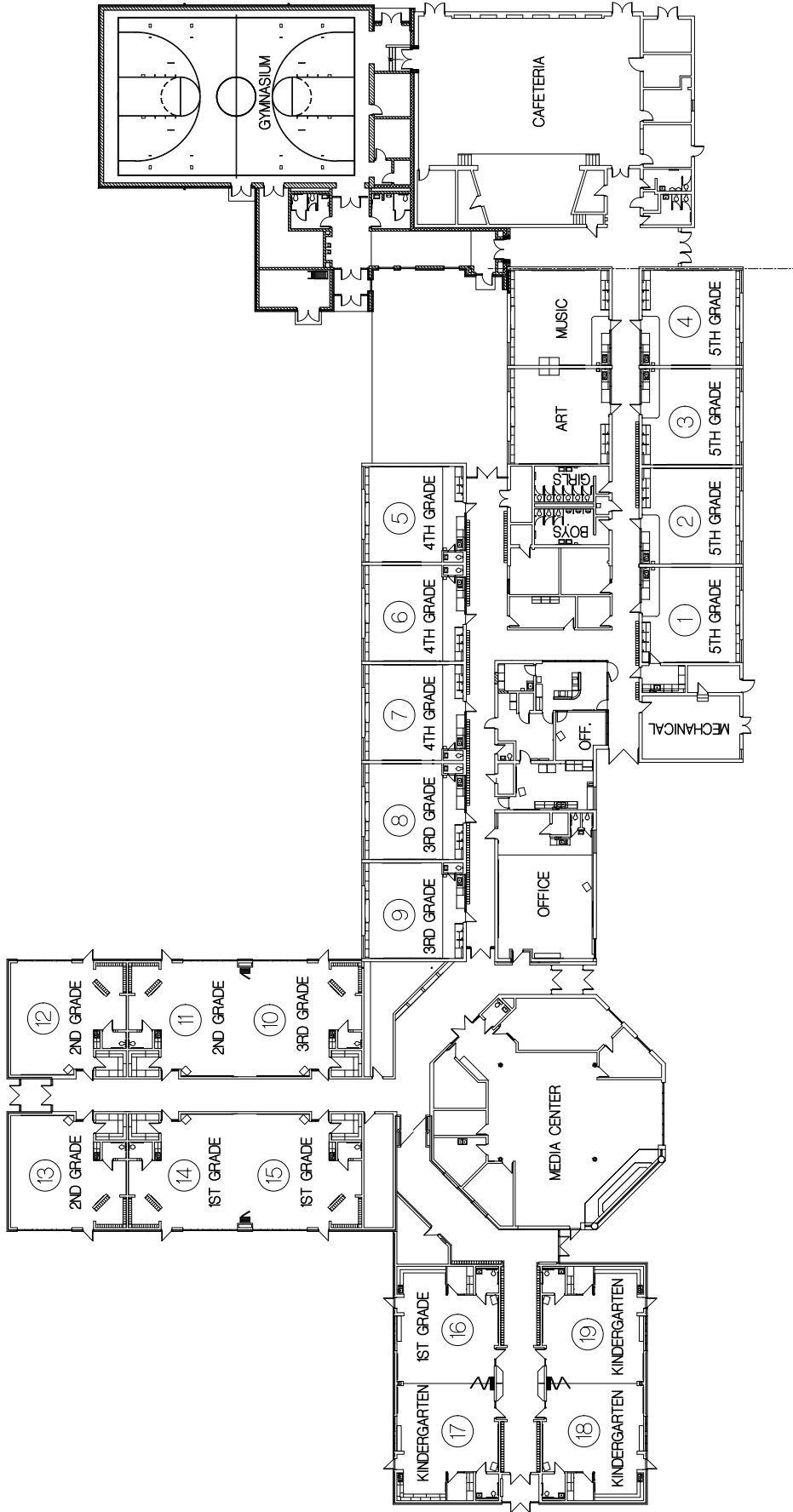
Facility to be Closed	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary		20	0
(3-5) Upper Elementary		25	0
(6-8) Junior High		22.5	0
(9-12) High School		21.25	0
Total	0		0

Projected 5-Year Enrollment 410

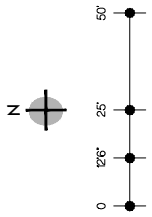
Utilization Percentage 95%

(Projected 5-Year Enrollment / Total Capacity)

Please transfer applicable information to the Utilization Summary on Page 6 of the application.



STUDENT CAPACITY	
9 CR x 20 STUD.	- 180 TS
10 CR x 25 STUD.	- 250 TS
TOTAL	- 430 TS



architects planners interiors

WATERFORD SCHOOL DISTRICT
 houghton elementary school
composite plan
 december, 2019

WATERFORD SCHOOL DISTRICT	PRELIMINARY - FOR DISCUSSION PURPOSE ONLY	Grades: K-5
2021 BOND PROGRAM		Teaching Stations: 14
KNUDSEN ELEMENTARY	Year Built: 1967	Capacity: 315
5449 Crescent	Site Acreage: 18.00	Enrollment:
Building Project Work List	Building Size: 43,086	Date: 12/3/19

Category	Subcategory	Qty.	Unit	Unit Cost	Direct Cost	Total w/ G.C. & escalation	Notes	Category Priority	Series
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SITE WORK

Paving Work									
	replace asphalt - parking lots	37,000	sqft	8.00	296,000	\$339,619	parking lots and drives	1	3
	replace concrete	1	lpsm	50,000.00	50,000	\$57,368	sidewalks (7,800 sqft)	1	3
						Paving Work Subtotal:	\$396,987		
Site Improvements									
	upgrade play areas	1	allo	180,000.00	180,000	\$206,525		3	3
	upgrade fencing	1	allo	75,000.00	75,000	\$86,052		2	3
						Site Improvement Subtotal:	\$292,577		
						SITE WORK SUBTOTAL:	\$689,564		

REMODELING

Roofing Work									
	replace roof	21,543	sqft	19.00	409,317	\$469,634	build-up roof	3	3
						Roofing Work Subtotal:	\$469,634		
Architectural Work									
	abate asbestos/hazardous materials	1	allo	20,000.00	20,000	\$22,947		3	3
	update finishes	30,000	sqft	20.00	600,000	\$688,417	ceilings, flooring, paint, casework	3	3
	renovate media center	5,000	sqft	125.00	625,000	\$717,101		3	3
						Architectural Work Subtotal:	\$1,428,465		
Mechanical Work									
HVAC Systems									
	replace HVAC system	43,086	sqft	15.00	646,290	\$741,528	furnace	1	3
	add AC to cafeteria	5,000	sqft	25.00	125,000	\$143,420		1	3
	update media center HVAC	1	lpsm	90,000.00	90,000	\$103,263	RTU	3	3
Integrated Automation									
	upgrade temperature controls	1	allo	20,000.00	20,000	\$22,947		3	3
						Mechanical Work Subtotal:	\$1,011,158		
Electrical Work									
Power									
	electrical for mechanical	1	lpsm	25,000.00	25,000	\$28,684		3	3
Lighting									
	replace lighting - classrooms	30,000	sqft	9.00	270,000	\$309,788		3	3
Electronic Safety and Security									
	upgrade PA system	1	lpsm	15,000.00	15,000	\$17,210		2	3
	upgrade fire alarm	43,086	sqft	2.50	107,715	\$123,588		1	3
						Electrical Work Subtotal:	\$479,270		
						Construction Subtotal:	\$3,388,527		
Technology Infrastructure									
	upgrade network infrastructure	43,086	sqft	2.50	107,715	\$123,588		1	3
	upgrade cabling	43,086	sqft	0.50	21,543	\$24,718		3	3
						Technology Infrastructure Subtotal:	\$148,306		
Technology Safety & Security									
	upgrade access control	43,086	sqft	1.00	43,086	\$49,435		2	3
	upgrade security infrastructure	43,086	sqft	1.00	43,086	\$49,435		2	3
						Technology Safety & Security Subtotal:	\$98,870		
						Technology & Safety Infrastructure Subtotal:	\$247,176		
						REMODELING SUBTOTAL:	\$3,635,703		

INSTRUCTIONAL TECHNOLOGY

Computers & Mobile Devices									
	purchase devices	43,086	sqft	2.50	107,715	\$108,792		1	2
	devices - refresh	1	allo	100,000.00	100,000	\$101,000		3	3
Audio / Visual									
	purchase AV devices	43,086	sqft	2.50	107,715	\$108,792		1	2
	av - refresh	1	allo	100,000.00	100,000	\$101,000		3	3
						INSTRUCTIONAL TECHNOLOGY SUBTOTAL:	\$419,584		

LOOSE FURNISHINGS & EQUIPMENT

Furnishings, Furniture & Equipment									
	purchase furniture	1	allo	50,000.00	50,000	\$50,000		3	3
	purchase classroom furniture	20	each	10,000.00	200,000	\$200,000		3	3
	purchase media center furniture	1	allo	75,000.00	75,000	\$75,000		3	3
						F, F & E Subtotal:	\$325,000		
						LOOSE FURNISHINGS & EQUIPMENT SUBTOTAL:	\$325,000		

						BUILDING TOTAL:	\$5,069,852	6,240,595		
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Notes:	Construction Contingency:	\$474,485
escalation calculated to mid-point of project	Design Consultants:	\$387,002
general conditions (G.C.) include; testing, permits, & temp items	Construction Manager:	\$309,257
indirect costs include contingency and professional fees	PROJECT TOTAL:	\$6,240,595

Building Utilization

School Building Name

Knudsen Elementary School

Project No. 7

Current Grade Structure K-5

Proposed Grade Structure K-5

1. List the number of teaching stations in appropriate column.
2. Calculate total capacity using the applicable capacity factor.
3. Enter five (5) year projected enrollment.
4. Calculate building utilization rate.
5. Attach floor plan of the building. Show the rooms and category (existing, proposed new, closed).
6. Number the teaching stations in consecutive order.

Existing	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary	7	20	140
(3-5) Upper Elementary	7	25	175
(6-8) Junior High		22.5	0
(9-12) High School		21.25	0
Subtotal	14		315

Proposed New	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary		20	0
(3-5) Upper Elementary		25	0
(6-8) Junior High		22.5	0
(9-12) High School		21.25	0
Subtotal	0		0

Total	14		315
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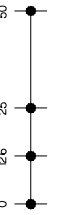
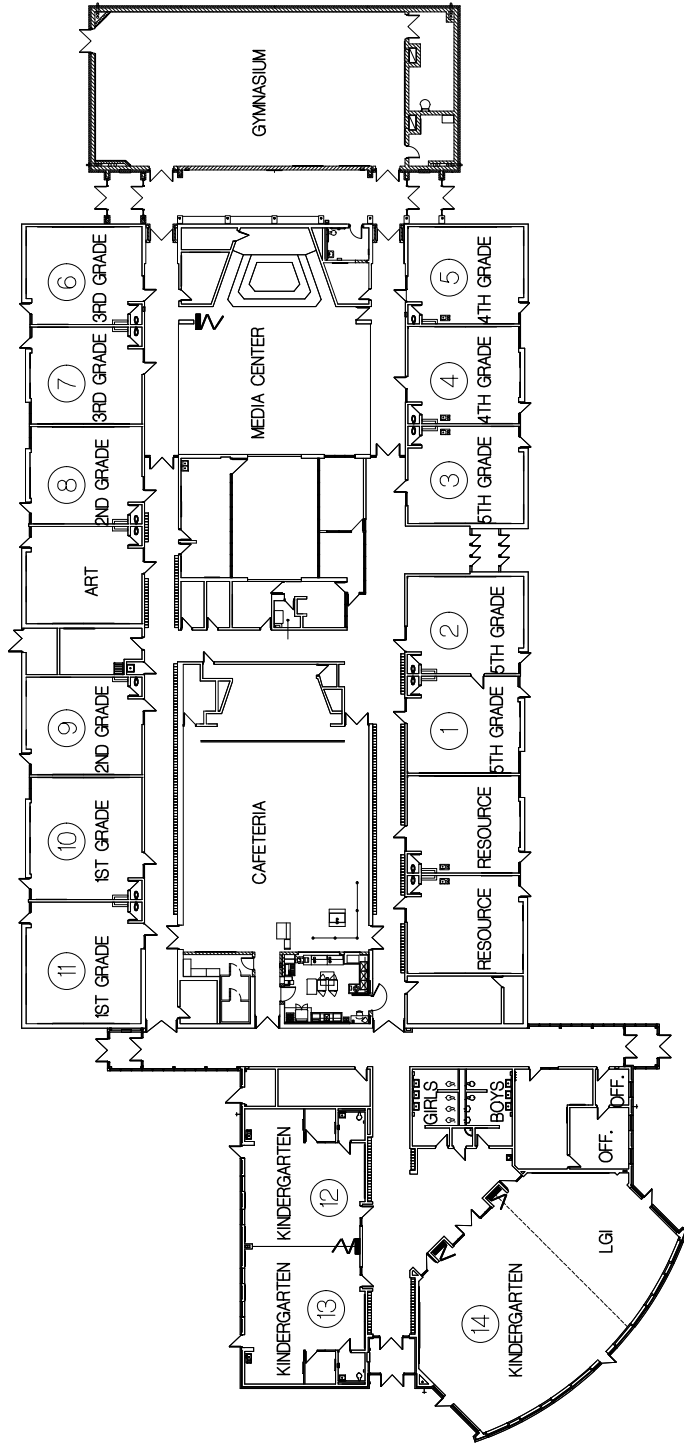
Facility to be Closed	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary		20	0
(3-5) Upper Elementary		25	0
(6-8) Junior High		22.5	0
(9-12) High School		21.25	0
Total	0		0

Projected 5-Year Enrollment 300

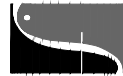
Utilization Percentage 95%

(Projected 5-Year Enrollment / Total Capacity)

Please transfer applicable information to the Utilization Summary on Page 6 of the application.



STUDENT CAPACITY	
7 CR x 20 STUD.	- 140 TS
7 CR x 25 STUD.	- 175 TS
TOTAL	- 315 TS



architectes planiers intérieurs

WATERFORD SCHOOL DISTRICT
knudsen elementary school
composite plan
 december, 2019

WATERFORD SCHOOL DISTRICT	<i>PRELIMINARY - FOR DISCUSSION PURPOSE ONLY</i>	Grades: K-5
2021 BOND PROGRAM		Teaching Stations: 14
RIVERSIDE ELEMENTARY	Year Built: 1965	Capacity: 315
5280 Farm	Site Acreage: 10.00	Enrollment:
Building Project Work List	Building Size: 50,459	Date: 12/3/19

Category	Subcategory	Qty.	Unit	Unit Cost	Direct Cost	Total w/ G.C. & escalation	Notes	Category Priority	Series
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SITE WORK

Site Improvements									
	upgrade play areas	1	allo	180,000.00	180,000	\$206,525		3	3
	upgrade fencing	1	allo	75,000.00	75,000	\$86,052		2	3
Site Improvement Subtotal:						\$292,577			
SITE WORK SUBTOTAL:						\$292,577			

REMODELING

Roofing Work									
	replace roof	25,230	sqft	19.00	479,361	\$550,000	built-up roof system	3	3
Roofing Work Subtotal:						\$550,000			
Architectural Work									
	abate asbestos/hazardous materials	1	allo	20,000.00	20,000	\$22,947		3	3
	renovate media center	5,000	sqft	125.00	625,000	\$717,101		3	3
Architectural Work Subtotal:						\$740,048			
Mechanical Work									
HVAC Systems									
	add AC to cafeteria	5,000	sqft	25.00	125,000	\$143,420		3	3
	update media center HVAC	1	lpsm	90,000.00	90,000	\$103,263	RTU	3	3
Integrated Automation									
	upgrade temperature controls	1	allo	20,000.00	20,000	\$22,947		3	3
Mechanical Work Subtotal:						\$269,630			
Electrical Work									
Power									
	electrical for mechanical	1	lpsm	25,000.00	25,000	\$28,684		3	3
Electronic Safety and Security									
	upgrade PA system	1	lpsm	15,000.00	15,000	\$17,210		2	3
	upgrade fire alarm	50,459	sqft	2.50	126,148	\$144,737		1	3
Electrical Work Subtotal:						\$190,631			
Construction Subtotal:						\$1,750,309			
Technology Infrastructure									
	upgrade network infrastructure	50,459	sqft	2.50	126,148	\$144,737		1	3
	upgrade cabling	50,459	sqft	0.50	25,230	\$28,947		3	3
Technology Infrastructure Subtotal:						\$173,684			
Technology Safety & Security									
	upgrade access control	50,459	sqft	1.00	50,459	\$57,895		2	3
	upgrade security infrastructure	50,459	sqft	1.00	50,459	\$57,895		2	3
Technology Safety & Security Subtotal:						\$115,789			
Technology & Safety Infrastructure Subtotal:						\$289,474			
REMODELING SUBTOTAL:						\$2,039,782			

INSTRUCTIONAL TECHNOLOGY

Computers & Mobile Devices									
	purchase devices	50,459	sqft	2.50	126,148	\$127,409		1	2
	devices - refresh	1	allo	100,000.00	100,000	\$101,000		3	3
Audio / Visual									
	purchase AV devices	50,459	sqft	2.50	126,148	\$127,409		1	2
	av - refresh	1	allo	100,000.00	100,000	\$101,000		3	3
INSTRUCTIONAL TECHNOLOGY SUBTOTAL:						\$456,818			

LOOSE FURNISHINGS & EQUIPMENT

Furnishings, Furniture & Equipment									
	purchase furniture	1	allo	50,000.00	50,000	\$50,000		3	3
	purchase classroom furniture	20	each	10,000.00	200,000	\$200,000		3	3
	purchase media center furniture	1	allo	75,000.00	75,000	\$75,000		3	3
F, F & E Subtotal:						\$325,000			
LOOSE FURNISHINGS & EQUIPMENT SUBTOTAL:						\$325,000			

BUILDING TOTAL: \$3,114,177 3,786,299

Notes:	Construction Contingency:	\$278,918
escalation calculated to mid-point of project	Design Consultants:	\$226,440
general conditions (G.C.) include; testing, permits, & temp items	Construction Manager:	\$166,764
indirect costs include contingency and professional fees	PROJECT TOTAL:	\$3,786,299

Building Utilization

School Building Name

Riverside Elementary School

Project No. 8

Current Grade Structure K-5
 Proposed Grade Structure K-5

1. List the number of teaching stations in appropriate column.
2. Calculate total capacity using the applicable capacity factor.
3. Enter five (5) year projected enrollment.
4. Calculate building utilization rate.
5. Attach floor plan of the building. Show the rooms and category (existing, proposed new, closed).
6. Number the teaching stations in consecutive order.

Existing	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary	7	20	140
(3-5) Upper Elementary	7	25	175
(6-8) Junior High		22.5	0
(9-12) High School		21.25	0
Subtotal	14		315

Proposed New	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary		20	0
(3-5) Upper Elementary		25	0
(6-8) Junior High		22.5	0
(9-12) High School		21.25	0
Subtotal	0		0
Total	14		315

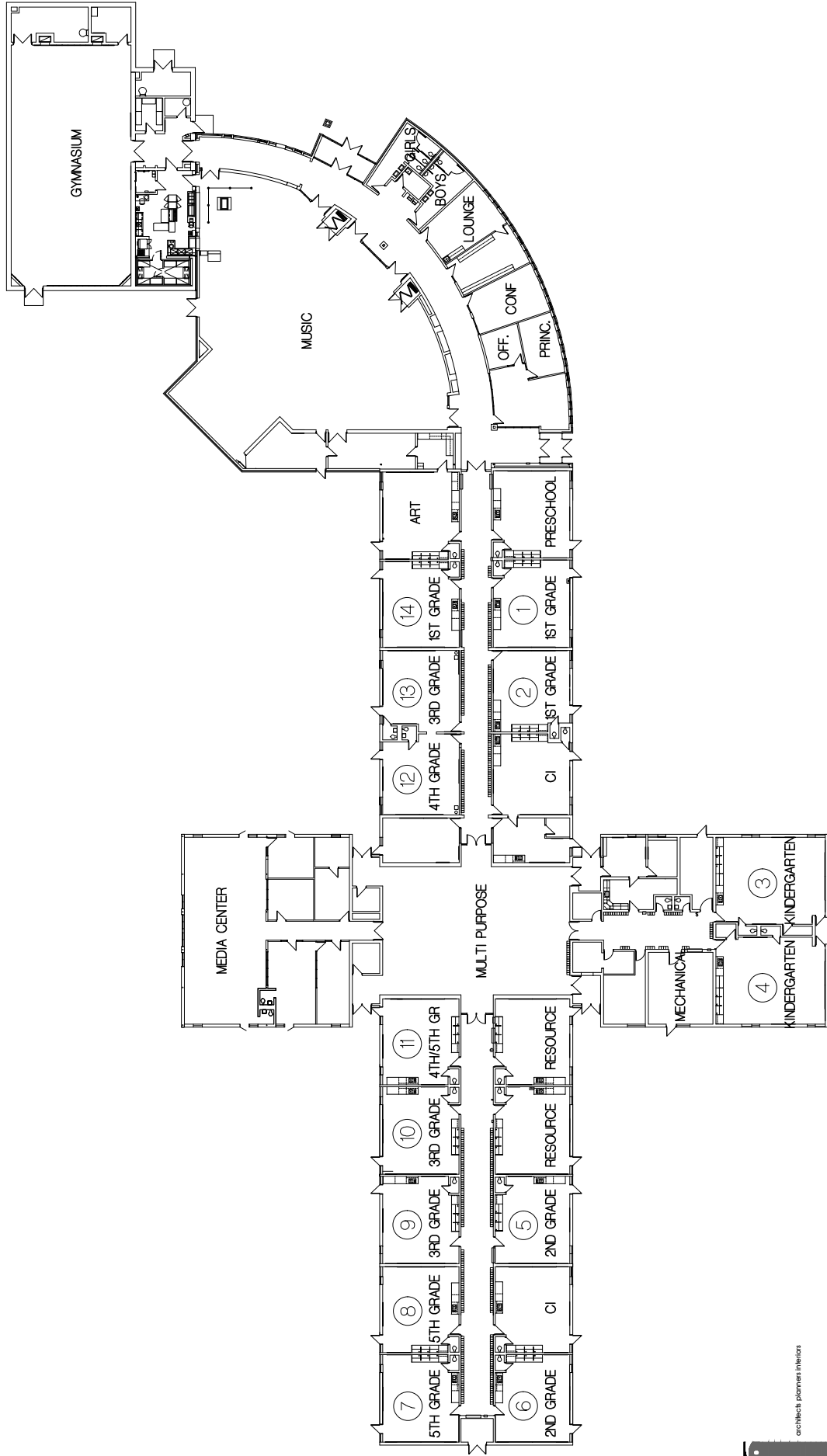
Facility to be Closed	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary		20	0
(3-5) Upper Elementary		25	0
(6-8) Junior High		22.5	0
(9-12) High School		21.25	0
Total	0		0

Projected 5-Year Enrollment 300

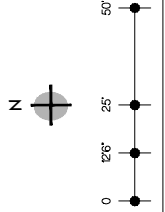
Utilization Percentage 95%

(Projected 5-Year Enrollment / Total Capacity)

Please transfer applicable information to the Utilization Summary on Page 6 of the application.



STUDENT CAPACITY	
7 CR x 20 STUD.	- 140 TS
7 CR x 25 STUD.	- 175 TS
TOTAL - 315 TS	



FRENCH ASSOCIATES

architect-planners-interiors

WATERFORD SCHOOL DISTRICT
 riverside elementary school
composite plan
 december, 2019

WATERFORD SCHOOL DISTRICT	PRELIMINARY - FOR DISCUSSION PURPOSE ONLY	Grades: K-5
2021 BOND PROGRAM		Teaching Stations: 18
SCHOOLCRAFT ELEMENTARY	Year Built: 1957	Capacity: 410
6400 Maceday	Site Acreage: 9.00	Enrollment:
Building Project Work List	Building Size: 42,731	Date: 12/3/19

Category	Subcategory	Qty.	Unit	Unit Cost	Direct Cost	Total w/ G.C. & escalation	Notes	Category Priority	Series
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SITE WORK

Site Improvements									
	upgrade play areas	1	allo	180,000.00	180,000	\$206,525		3	3
	upgrade fencing	1	allo	75,000.00	75,000	\$86,052		2	3
Site Improvement Subtotal:						\$292,577			
SITE WORK SUBTOTAL:						\$292,577			

REMODELING

Roofing Work									
	replace roof	21,366	sqft	19.00	405,945	\$465,765	built-up roof	3	3
Roofing Work Subtotal:						\$465,765			

Architectural Work									
	abate asbestos/hazardous materials	1	allo	20,000.00	20,000	\$22,947		3	3
	renovate media center	5,000	sqft	125.00	625,000	\$717,101		3	3
Architectural Work Subtotal:						\$740,048			

Mechanical Work									
HVAC Systems									
	add AC to cafeteria	5,000	sqft	25.00	125,000	\$143,420		3	3
	update media center HVAC	1	lpsm	90,000.00	90,000	\$103,263	RTU	3	3
Integrated Automation									
	upgrade temperature controls	1	allo	20,000.00	20,000	\$22,947		3	3
Mechanical Work Subtotal:						\$269,630			

Electrical Work									
Power									
	electrical for mechanical	1	lpsm	25,000.00	25,000	\$28,684		3	3
Electronic Safety and Security									
	upgrade PA system	1	lpsm	15,000.00	15,000	\$17,210		2	3
	upgrade fire alarm	42,731	sqft	2.50	106,828	\$122,570		1	3
Electrical Work Subtotal:						\$168,464			
Construction Subtotal:						\$1,643,907			

Technology Infrastructure									
	upgrade network infrastructure	42,731	sqft	2.50	106,828	\$122,570		1	3
	upgrade cabling	42,731	sqft	0.50	21,366	\$24,514		3	3
Technology Infrastructure Subtotal:						\$147,084			

Technology Safety & Security									
	upgrade access control	42,731	sqft	1.00	42,731	\$49,028		2	3
	upgrade security infrastructure	42,731	sqft	1.00	42,731	\$49,028		2	3
Technology Safety & Security Subtotal:						\$98,056			
Technology & Safety Infrastructure Subtotal:						\$245,139			
REMODELING SUBTOTAL:						\$1,889,047			

INSTRUCTIONAL TECHNOLOGY

Computers & Mobile Devices									
	purchase devices	42,731	sqft	2.50	106,828	\$107,896		1	2
	devices - refresh	1	allo	100,000.00	100,000	\$101,000		3	3
Audio / Visual									
	purchase AV devices	42,731	sqft	2.50	106,828	\$107,896		1	2
	av - refresh	1	allo	100,000.00	100,000	\$101,000		3	3
INSTRUCTIONAL TECHNOLOGY SUBTOTAL:						\$417,792			

LOOSE FURNISHINGS & EQUIPMENT

Furnishings, Furniture & Equipment									
	purchase furniture	1	allo	50,000.00	50,000	\$50,000		3	3
	purchase classroom furniture	20	each	10,000.00	200,000	\$200,000		3	3
	purchase media center furniture	1	allo	75,000.00	75,000	\$75,000		3	3
F, F & E Subtotal:						\$325,000			
LOOSE FURNISHINGS & EQUIPMENT SUBTOTAL:						\$325,000			

BUILDING TOTAL:						\$2,924,415	3,551,417		
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<i>Notes:</i>	Construction Contingency:	\$259,942
<i>escalation calculated to mid-point of project</i>	Design Consultants:	\$211,074
<i>general conditions (G.C.) include; testing, permits, & temp items</i>	Construction Manager:	\$155,986
<i>indirect costs include contingency and professional fees</i>	PROJECT TOTAL:	\$3,551,417

Building Utilization

School Building Name

Schoolcraft Elementary School

Project No. 9

Current Grade Structure K-5
 Proposed Grade Structure K-5

1. List the number of teaching stations in appropriate column.
2. Calculate total capacity using the applicable capacity factor.
3. Enter five (5) year projected enrollment.
4. Calculate building utilization rate.
5. Attach floor plan of the building. Show the rooms and category (existing, proposed new, closed).
6. Number the teaching stations in consecutive order.

Existing	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary	8	20	160
(3-5) Upper Elementary	10	25	250
(6-8) Junior High		22.5	0
(9-12) High School		21.25	0
Subtotal	18		410
Proposed New	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary		20	0
(3-5) Upper Elementary		25	0
(6-8) Junior High		22.5	0
(9-12) High School		21.25	0
Subtotal	0		0
Total	18		410

Facility to be Closed	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary		20	0
(3-5) Upper Elementary		25	0
(6-8) Junior High		22.5	0
(9-12) High School		21.25	0
Total	0		0

Projected 5-Year Enrollment 390

Utilization Percentage 95%

(Projected 5-Year Enrollment / Total Capacity)

Please transfer applicable information to the Utilization Summary on Page 6 of the application.

Project Sheet

Mason Middle School
Project No. 10

Description of Series 1	n/a
Description of Series 2	site work, replace roof, renovations, replace boiler, replace fire alarm, upgrade technology infrastructure, purchase instructional technology and furniture
Description of Series 3	purchase instructional technology and furniture
Instructional Technology Description	purchase student devices and classroom audio visual systems
Site Work Description	upgrade track and build tennis courts

Construction Cost Per Square Foot

New Construction Square Ft	n/a	Cost per Sq Ft	n/a
New Addition Square Ft.	n/a	Cost per Sq Ft	n/a

Statement describing any existing environmental or usability problems the proposed project will address. (ex: asbestos, energy use, or ADA requirements)

abate asbestos materials

Estimated Cost of Proposed Construction Project

Column1	Series 1	Series 2	Series 3	Total
New Construction	\$0	\$0	\$0	\$0
Remodeling	\$0	\$3,282,590	\$84,196	\$3,366,785
Construction Contingencies	\$0	\$476,953	\$58,920	\$535,873
Instructional Technology	\$0	\$741,158	\$505,000	\$1,246,158
Loose Furnishing/Equipment	\$0	\$670,000	\$100,000	\$770,000
Buses	\$0	\$0	\$0	\$0
Site Work	\$0	\$745,785	\$0	\$745,785
Site Acquisition	\$0	\$0	\$0	\$0
Architectural Fees and Costs	\$0	\$387,416	\$45,789	\$433,205
CM Fees and Costs	\$0	\$288,029	\$6,020	\$294,049
Estimated Costs	\$0	\$6,591,931	\$799,925	\$7,391,855

Certificate by Registered Architect

I certify that I have assessed the conditions relative to this facility and the details of the proposed project(s) described above and the attached detail relative to the construction project(s) are true and correct to the best of my knowledge and belief.

Signature	12/10/2019	French Associates	1301031750
	Date	Firm Name and License Number	

Paul A. Corneliusen, AIA	paulc@frenchaia.com	248-656-1377
Printed Name	E-mail Address	Phone Number

WATERFORD SCHOOL DISTRICT	PRELIMINARY - FOR DISCUSSION PURPOSE ONLY	Grades: 6-8
2021 BOND PROGRAM		Teaching Stations: 49
MASON MIDDLE SCHOOL	Year Built: 1965	Capacity: 1,103
3835 W. Walton Blvd.	Site Acreage: 24.00	Enrollment:
Building Project Work List	Building Size: 146,764	Date: 12/3/19

Category	Subcategory	Description	Qty.	Unit	Unit Cost	Direct Cost	Total w/ G.C. & escalation	Notes	Category Priority	Series
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SITE WORK

Site Improvements

reconstruct track	1	lpsm	350,000.00	350,000	\$401,576	29,000 sqft	3	2
build tennis courts	4	each	75,000.00	300,000	\$344,208		3	2
Site Improvement Subtotal:					\$745,785			
SITE WORK SUBTOTAL:					\$745,785			

REMODELING

Roofing Work

replace roof	58,706	sqft	19.00	1,115,406	\$1,279,774		1	2
Roofing Work Subtotal:					\$1,279,774			

Architectural Work

abate asbestos/hazardous materials	1	allo	50,000.00	50,000	\$57,368		1	2
renovate media center	5,000	sqft	75.00	375,000	\$430,260		3	2
renovate gym	1	lsum	125,000.00	125,000	\$143,420	finishes	3	2
Architectural Work Subtotal:					\$631,049			

Mechanical Work

HVAC Systems

update boiler system	1	lpsm	300,000.00	300,000	\$344,208		1	2
Mechanical Work Subtotal:					\$344,208			

Electrical Work

Electronic Safety and Security

upgrade PA system	1	lpsm	15,000.00	15,000	\$17,210		2	2
upgrade fire alarm	146,764	sqft	2.00	293,528	\$336,783		1	2
Electrical Work Subtotal:					\$353,993			
Construction Subtotal:					\$2,609,024			

Technology Infrastructure

upgrade network infrastructure	146,764	sqft	2.50	366,910	\$420,978		1	2
upgrade cabling	146,764	sqft	0.50	73,382	\$84,196		3	3
Technology Infrastructure Subtotal:					\$505,174			

Technology Safety & Security

add security cameras	146,764	sqft	0.50	73,382	\$84,196		2	2
upgrade security infrastructure	146,764	sqft	1.00	146,764	\$168,391		2	2
Technology Safety & Security Subtotal:					\$252,587			
Technology & Safety Infrastructure Subtotal:					\$757,761			
REMODELING SUBTOTAL:					\$3,366,785			

INSTRUCTIONAL TECHNOLOGY

Computers & Mobile Devices

purchase devices	146,764	sqft	2.50	366,910	\$370,579		1	2
devices - refresh	1	allo	250,000.00	250,000	\$252,500		3	3

Audio / Visual

purchase AV devices	146,764	sqft	2.50	366,910	\$370,579		1	2
av - refresh	1	allo	250,000.00	250,000	\$252,500		3	3
INSTRUCTIONAL TECHNOLOGY SUBTOTAL:					\$1,246,158			

LOOSE FURNISHINGS & EQUIPMENT

Furnishings, Furniture & Equipment

purchase furniture	1	allo	100,000.00	100,000	\$100,000		3	3
purchase classroom furniture	52	each	10,000.00	520,000	\$520,000		3	2
purchase media center furniture	1	allo	100,000.00	100,000	\$100,000		3	2
purchase band instruments	1	allo	25,000.00	25,000	\$25,000		3	2
purchase athletic equipment	1	lpsm	25,000.00	25,000	\$25,000		3	2
F, F & E Subtotal:					\$770,000			
LOOSE FURNISHINGS & EQUIPMENT SUBTOTAL:					\$770,000			

BUILDING TOTAL: \$6,128,728 7,391,855

Notes:	Construction Contingency:	\$535,873
escalation calculated to mid-point of project	Design Consultants:	\$433,205
general conditions (G.C.) include; testing, permits, & temp items	Construction Manager:	\$294,049
indirect costs include contingency and professional fees	PROJECT TOTAL:	\$7,391,855

Building Utilization

School Building Name

Mason Middle School

Project No. 10

Current Grade Structure 6-8
Proposed Grade Structure 6-8

1. List the number of teaching stations in appropriate column.
2. Calculate total capacity using the applicable capacity factor.
3. Enter five (5) year projected enrollment.
4. Calculate building utilization rate.
5. Attach floor plan of the building. Show the rooms and category (existing, proposed new, closed).
6. Number the teaching stations in consecutive order.

Existing	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary		20	0
(3-5) Upper Elementary		25	0
(6-8) Junior High	49	22.5	1,103
(9-12) High School		21.25	0
Subtotal	49		1,103
Proposed New	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary		20	0
(3-5) Upper Elementary		25	0
(6-8) Junior High		22.5	0
(9-12) High School		21.25	0
Subtotal	0		0
Total	49		1,103

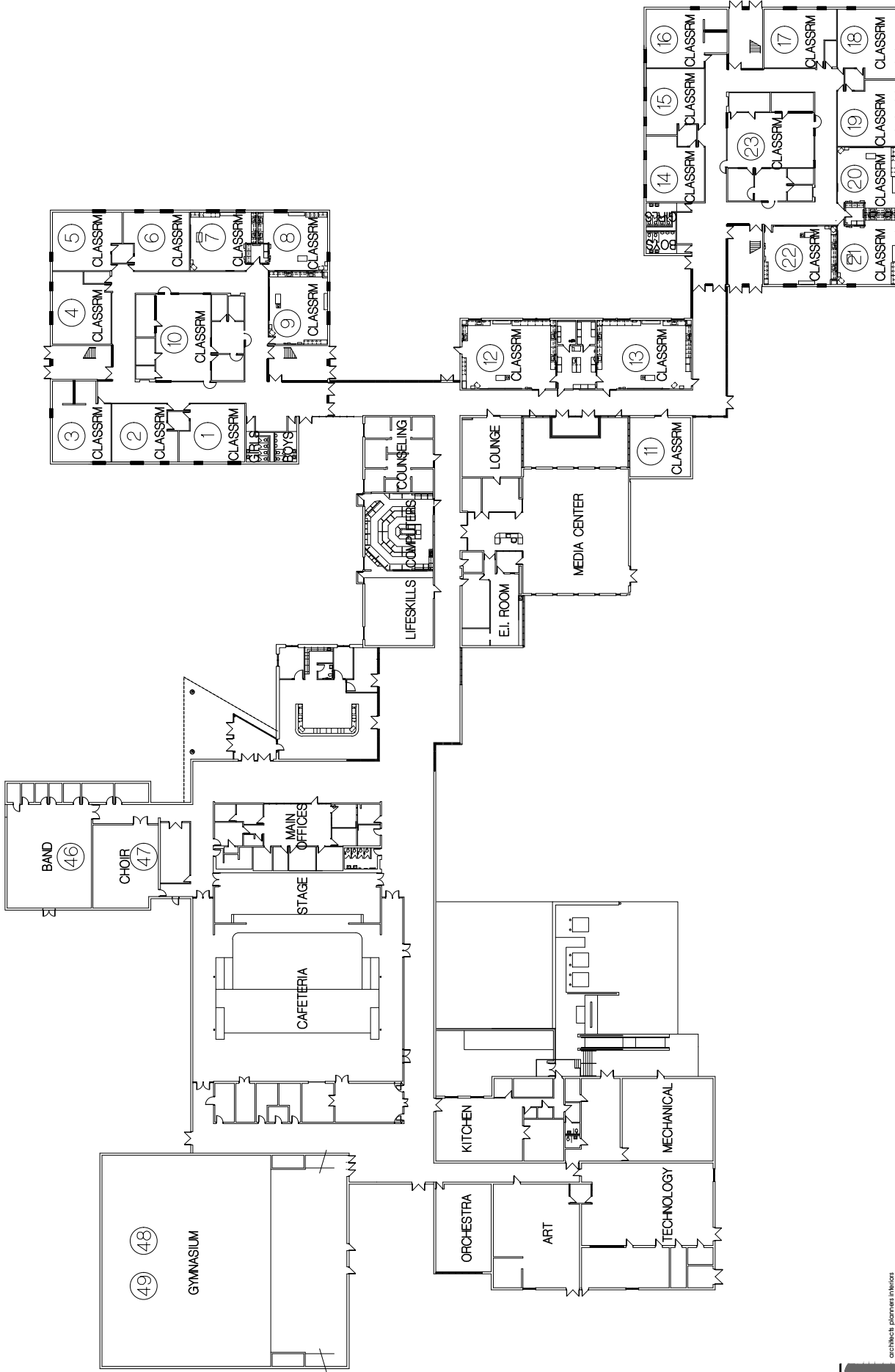
Facility to be Closed	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary		20	0
(3-5) Upper Elementary		25	0
(6-8) Junior High		22.5	0
(9-12) High School		21.25	0
Total	0		0

Projected 5-Year Enrollment 748

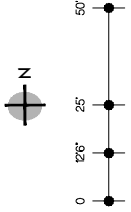
Utilization Percentage 68%

(Projected 5-Year Enrollment / Total Capacity)

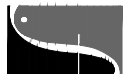
Please transfer applicable information to the Utilization Summary on Page 6 of the application.



STUDENT CAPACITY
 49 CR x 22.5 STUD. = 1102.5 TS
 1ST / 2ND FLRS

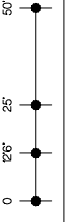
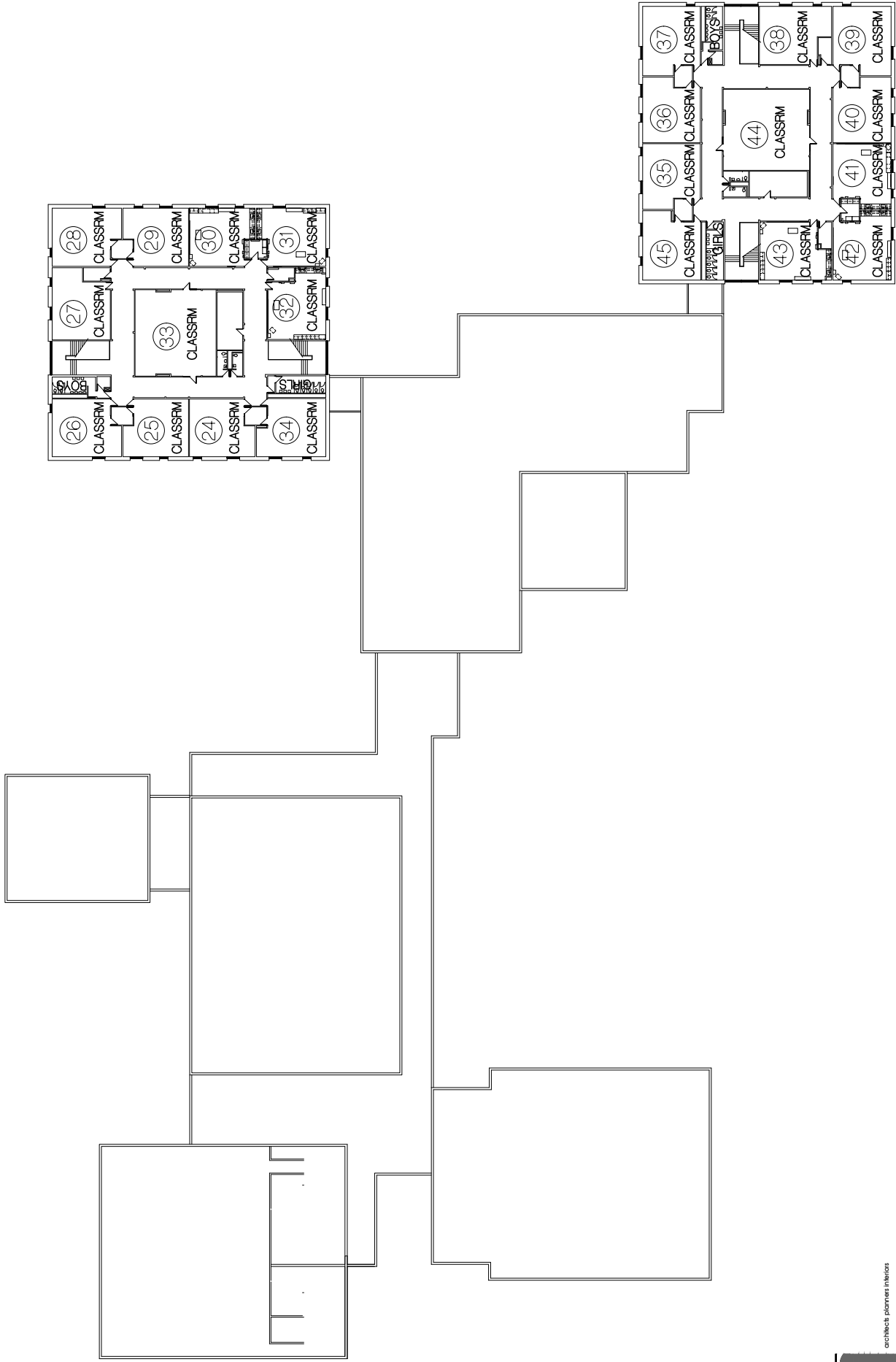


architect planners interior

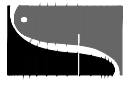


FRENCH ASSOCIATES

WATERFORD SCHOOL DISTRICT
 mason middle school south - first floor
composite plan
 december, 2019



architect: plannet interiors



FRENCH ASSOCIATES

WATERFORD SCHOOL DISTRICT
 mason middle school south - second floor
composite plan
 december, 2019

Project Sheet

Pierce Middle School
Project No. 11

Description of Series 1	n/a
Description of Series 2	site work, replace roof, renovations, replace fire alarm, upgrade technology infrastructure, purchase instructional technology and furniture
Description of Series 3	purchase instructional technology and furniture
Instructional Technology Description	purchase student devices and classroom audio visual systems
Site Work Description	install synthetic turf field and reconstruct track

Construction Cost Per Square Foot

New Construction Square Ft	n/a	Cost per Sq Ft	n/a
New Addition Square Ft.	n/a	Cost per Sq Ft	n/a

Statement describing any existing environmental or usability problems the proposed project will address. (ex: asbestos, energy use, or ADA requirements)

abate asbestos materials

Estimated Cost of Proposed Construction Project

Column1	Series 1	Series 2	Series 3	Total
New Construction	\$0	\$0	\$0	\$0
Remodeling	\$0	\$3,068,899	\$74,230	\$3,143,129
Construction Contingencies	\$0	\$544,338	\$57,923	\$602,261
Instructional Technology	\$0	\$653,435	\$505,000	\$1,158,435
Loose Furnishing/Equipment	\$0	\$670,000	\$100,000	\$770,000
Buses	\$0	\$0	\$0	\$0
Site Work	\$0	\$1,721,042	\$0	\$1,721,042
Site Acquisition	\$0	\$0	\$0	\$0
Architectural Fees and Costs	\$0	\$443,114	\$44,972	\$488,086
CM Fees and Costs	\$0	\$342,481	\$5,307	\$347,788
Estimated Costs	\$0	\$7,443,307	\$787,433	\$8,230,740

Certificate by Registered Architect

I certify that I have assessed the conditions relative to this facility and the details of the proposed project(s) described above and the attached detail relative to the construction project(s) are true and correct to the best of my knowledge and belief.

Signature	12/10/2019	French Associates	1301031750
	Date	Firm Name and License Number	

Paul A. Corneliusen, AIA	paulc@frenchaia.com	248-656-1377
Printed Name	E-mail Address	Phone Number

WATERFORD SCHOOL DISTRICT	PRELIMINARY - FOR DISCUSSION PURPOSE ONLY	Grades: 6-8
2021 BOND PROGRAM		Teaching Stations: 49
PIERCE MIDDLE SCHOOL	Year Built: 1958	Capacity: 1,103
5145 Hatchery	Site Acreage: 58.00	Enrollment:
Building Project Work List	Building Size: 129,393	Date: 12/3/19

Category	Subcategory	Description	Qty.	Unit	Unit Cost	Direct Cost	Total w/ G.C. & escalation	Notes	Category Priority	Series
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SITE WORK

Site Improvements

install synthetic turf	100,000	sqft	11.50	1,150,000	\$1,319,465				3	2
reconstruct track	1	each	350,000.00	350,000	\$401,576				3	2
Site Improvement Subtotal:							\$1,721,042			
SITE WORK SUBTOTAL:							\$1,721,042			

REMODELING

Roofing Work

replace roof	51,757	sqft	19.00	983,387	\$1,128,300	built-up roof			1	2
Roofing Work Subtotal:							\$1,128,300			

Architectural Work

abate asbestos/hazardous materials	1	allo	25,000.00	25,000	\$28,684				1	2
remodel office/entry corridor	5,000	sqft	75.00	375,000	\$430,260				3	2
renovate media center	5,000	sqft	75.00	375,000	\$430,260				3	2
renovate gym	1	lsum	125,000.00	125,000	\$143,420	finishes			3	2
Architectural Work Subtotal:							\$1,032,625			

Electrical Work

Electronic Safety and Security

upgrade PA system	1	lpsm	15,000.00	15,000	\$17,210				2	2
upgrade fire alarm	129,393	sqft	2.00	258,786	\$296,921				1	2
Electrical Work Subtotal:							\$314,131			
Construction Subtotal:							\$2,475,057			

Technology Infrastructure

upgrade network infrastructure	129,393	sqft	2.50	323,483	\$371,151				1	2
upgrade cabling	129,393	sqft	0.50	64,697	\$74,230				3	3
Technology Infrastructure Subtotal:							\$445,382			

Technology Safety & Security

add security cameras	129,393	sqft	0.50	64,697	\$74,230				2	2
upgrade security infrastructure	129,393	sqft	1.00	129,393	\$148,461				2	2
Technology Safety & Security Subtotal:							\$222,691			
Technology & Safety Infrastructure Subtotal:							\$668,072			
REMODELING SUBTOTAL:							\$3,143,129			

INSTRUCTIONAL TECHNOLOGY

Computers & Mobile Devices

purchase devices	129,393	sqft	2.50	323,483	\$326,717				1	2
devices - refresh	1	allo	250,000.00	250,000	\$252,500				3	3

Audio / Visual

purchase AV devices	129,393	sqft	2.50	323,483	\$326,717				1	2
av - refresh	1	allo	250,000.00	250,000	\$252,500				3	3
INSTRUCTIONAL TECHNOLOGY SUBTOTAL:							\$1,158,435			

LOOSE FURNISHINGS & EQUIPMENT

Furnishings, Furniture & Equipment

purchase furniture	1	allo	100,000.00	100,000	\$100,000				3	3
purchase classroom furniture	52	each	10,000.00	520,000	\$520,000				3	2
purchase media center furniture	1	allo	100,000.00	100,000	\$100,000				3	2
purchase band instruments	1	allo	25,000.00	25,000	\$25,000				3	2
purchase athletic equipment	1	lpsm	25,000.00	25,000	\$25,000				3	2
F, F & E Subtotal:							\$770,000			
LOOSE FURNISHINGS & EQUIPMENT SUBTOTAL:							\$770,000			

BUILDING TOTAL: \$6,792,605 8,230,740

Notes:	Construction Contingency:	\$602,261
escalation calculated to mid-point of project	Design Consultants:	\$488,086
general conditions (G.C.) include; testing, permits, & temp items	Construction Manager:	\$347,788
indirect costs include contingency and professional fees	PROJECT TOTAL:	\$8,230,740

Building Utilization

School Building Name

Pierce Middle School

Project No. 11

Current Grade Structure 6-8
Proposed Grade Structure 6-8

1. List the number of teaching stations in appropriate column.
2. Calculate total capacity using the applicable capacity factor.
3. Enter five (5) year projected enrollment.
4. Calculate building utilization rate.
5. Attach floor plan of the building. Show the rooms and category (existing, proposed new, closed).
6. Number the teaching stations in consecutive order.

Existing	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary		20	0
(3-5) Upper Elementary		25	0
(6-8) Junior High	49	22.5	1,103
(9-12) High School		21.25	0
Subtotal	49		1,103

Proposed New	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary		20	0
(3-5) Upper Elementary		25	0
(6-8) Junior High		22.5	0
(9-12) High School		21.25	0
Subtotal	0		0

Total	49		1,103
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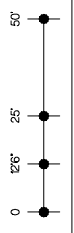
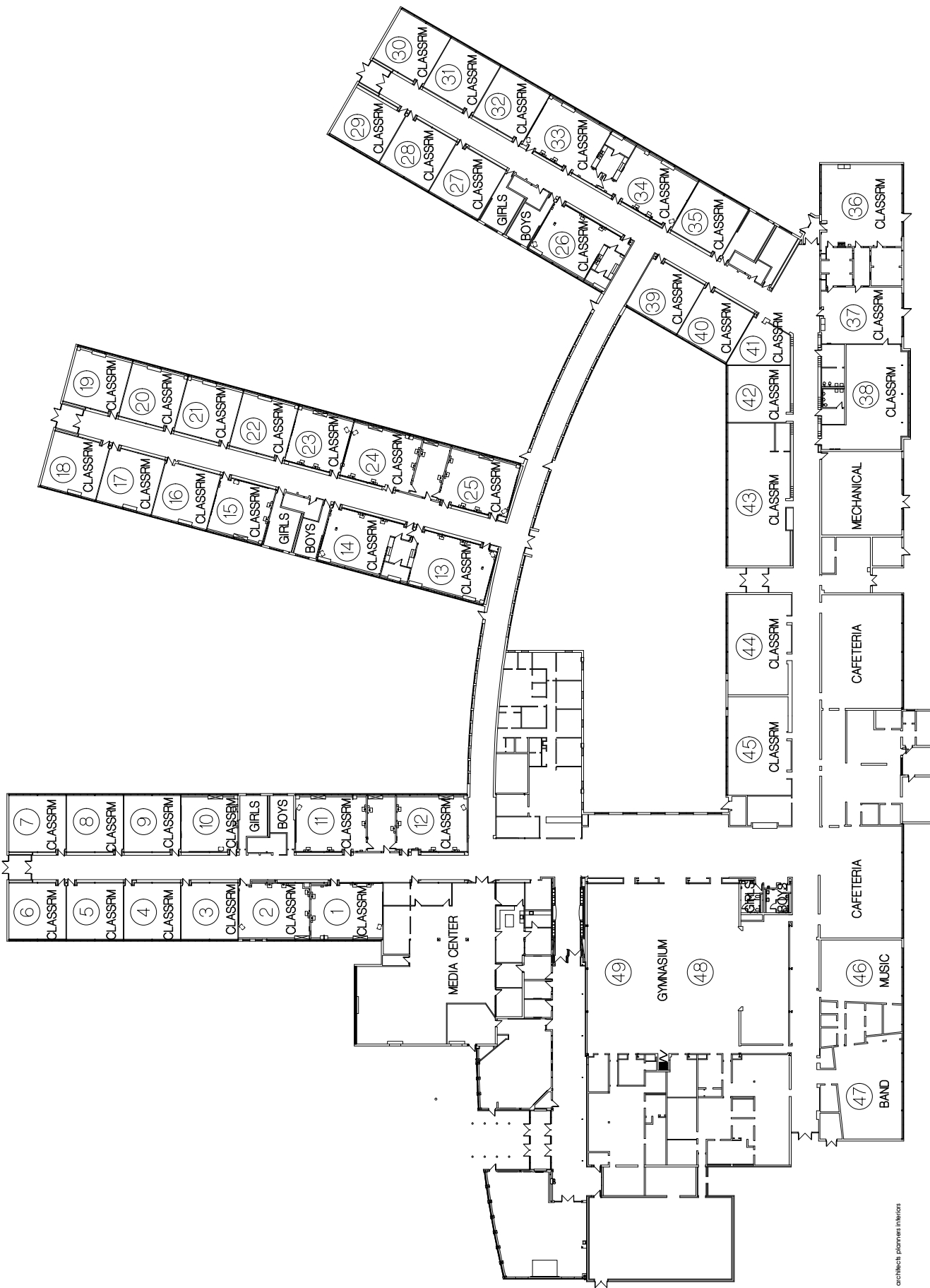
Facility to be Closed	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary		20	0
(3-5) Upper Elementary		25	0
(6-8) Junior High		22.5	0
(9-12) High School		21.25	0
Total	0		0

Projected 5-Year Enrollment 748

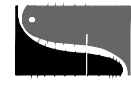
Utilization Percentage 68%

(Projected 5-Year Enrollment / Total Capacity)

Please transfer applicable information to the Utilization Summary on Page 6 of the application.



STUDENT CAPACITY
49 CR x 22.5 STUD. = 1102.5 TS



FRENCH ASSOCIATES

WATERFORD SCHOOL DISTRICT

composite plan

december, 2019

architect: plannes interiors

Project Sheet

Kettering High School
Project No. 12

Description of Series 1	build scene shop and ticket booth, renovate, replace mechanical equipment, upgrade lighting, replace fire alarm, upgrade tech infrastructure, furniture
Description of Series 2	repave parking lot and replace roof
Description of Series 3	upgrade technology infrastructure, purchase instructional technology and furniture
Instructional Technology Description	purchase student devices and classroom audio visual systems
Site Work Description	repave parking lot, upgrade fencing, landscaping, site work for addition

Construction Cost Per Square Foot

*cost includes escalation and utilities

New Construction Square Ft	n/a	Cost per Sq Ft	n/a
New Addition Square Ft.	2,250	Cost per Sq Ft	\$301.37

Statement describing any existing environmental or usability problems the proposed project will address. (ex: asbestos, energy use, or ADA requirements)

abate asbestos materials and upgrade lighting for energy savings

Estimated Cost of Proposed Construction Project

Column1	Series 1	Series 2	Series 3	Total
New Construction	\$678,091	\$0	\$0	\$678,091
Remodeling	\$8,670,644	\$2,961,328	\$194,824	\$11,826,796
Construction Contingencies	\$1,130,181	\$634,015	\$120,482	\$1,884,679
Instructional Technology	\$1,715,000	\$0	\$1,010,000	\$2,725,000
Loose Furnishing/Equipment	\$1,250,000	\$0	\$250,000	\$1,500,000
Buses	\$0	\$0	\$0	\$0
Site Work	\$238,077	\$3,378,821	\$0	\$3,616,898
Site Acquisition	\$0	\$0	\$0	\$0
Architectural Fees and Costs	\$918,222	\$519,924	\$93,747	\$1,531,892
CM Fees and Costs	\$685,457	\$453,321	\$13,930	\$1,152,708
Estimated Costs	\$15,285,672	\$7,947,409	\$1,682,983	\$24,916,063

Certificate by Registered Architect

I certify that I have assessed the conditions relative to this facility and the details of the proposed project(s) described above and the attached detail relative to the construction project(s) are true and correct to the best of my knowledge and belief.

Signature	12/10/2019	French Associates	1301031750
	Date	Firm Name and License Number	

Paul A. Corneliussen, AIA	paulc@frenchaia.com	248-656-1377
Printed Name	E-mail Address	Phone Number

WATERFORD SCHOOL DISTRICT	PRELIMINARY - FOR DISCUSSION PURPOSE ONLY	Grades: 9-12
2021 BOND PROGRAM		Teaching Stations: 64
KETTERING HIGH SCHOOL	Year Built: 1962	Capacity: 1,360
2800 Kettering Drive	Site Acreage: 49.00	Enrollment:
Building Project Work List	Building Size: 339,604	Date: 12/3/19

Category	Subcategory	Description	Qty.	Unit	Unit Cost	Direct Cost	Total w/ G.C. & escalation	Notes	Category Priority	Series
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SITE WORK

Paving Work										
		replace asphalt - parking lots	332,477	sqft	6.00	1,994,862	\$2,288,827		1	2
		replace asphalt - driveways	100,000	sqft	9.00	900,000	\$1,032,625		1	2
		replace concrete	20,000	sqft	8.00	160,000	\$183,578		1	1
Paving Work Subtotal:							\$3,505,030			
Site Improvements										
		upgrade fencing	1	allo	50,000.00	50,000	\$57,368		2	2
		general landscaping	1	allo	25,000.00	25,000	\$28,684		1	1
		site work for addition	2,250	sqft	10.00	22,500	\$25,816		3	1
Site Improvement Subtotal:							\$111,868			
SITE WORK SUBTOTAL:							\$3,616,898			

NEW CONSTRUCTION

		build scene shop for auditorium	2,000	sqft	233.00	466,000	\$534,670		3	1
		build ticket booth/entry feature	250	sqft	500.00	125,000	\$143,420		3	1
NEW CONSTRUCTION SUBTOTAL:			2,250	\$678,091						

REMODELING

Roofing Work										
		replace roof	135,842	sqft	19.00	2,580,990	\$2,961,328	built-up roof	1	2
Roofing Work Subtotal:							\$2,961,328			
Architectural Work										
		abate asbestos/hazardous materials	1	allo	100,000.00	100,000	\$114,736		1	1
		remodel office	4,000	sqft	75.00	300,000	\$344,208		3	1
		update auditorium curtains/rigging	1	allo	75,000.00	75,000	\$86,052		4	1
		renovate media center	10,000	sqft	75.00	750,000	\$860,521		3	1
		renovations for addition	2,000	sqft	10.00	20,000	\$22,947	connection allowance	3	1
Architectural Work Subtotal:							\$1,428,465			
Mechanical Work										
Plumbing work										
		replace domestic piping	339,604	sqft	2.00	679,208	\$779,297		1	1
HVAC Systems										
		add AC for old gym	15,000	sqft	25.00	375,000	\$430,260		3	1
		update HVAC	106,000	sqft	25.00	2,650,000	\$3,040,507	add AC	1	1
		update pool equipment	1	lpsm	250,000.00	250,000	\$286,840		1	1
Integrated Automation										
		upgrade temperature controls	1	lpsm	75,000.00	75,000	\$86,052			1
Mechanical Work Subtotal:							\$4,622,957			
Electrical Work										
Lighting										
		update lighting - pool	1	lpsm	50,000.00	50,000	\$57,368		3	1
		update lighting - auditorium	1	allo	250,000.00	250,000	\$286,840	stage & house lighting	3	1
Communications										
		upgrade sound system - auditorium	1	lpsm	50,000.00	50,000	\$57,368		3	1
Electronic Safety and Security										
		upgrade PA system	1	lpsm	15,000.00	15,000	\$17,210		2	1
		upgrade fire alarm	339,604	sqft	1.50	509,406	\$584,473		1	1
Electrical Work Subtotal:							\$1,003,260			
Construction Subtotal:							\$10,016,010			
Technology Infrastructure										
		upgrade network infrastructure	339,604	sqft	2.50	849,010	\$974,121		1	1
		upgrade cabling	339,604	sqft	0.50	169,802	\$194,824		3	3
Technology Infrastructure Subtotal:							\$1,168,945			
Technology Safety & Security										
		add security cameras	339,604	sqft	0.50	169,802	\$194,824		2	1
		upgrade security infrastructure	339,604	sqft	1.00	339,604	\$389,648		2	1
		add access control at pool	4	each	10,000.00	40,000	\$45,894		2	1
		add access control to elevator	1	allo	10,000.00	10,000	\$11,474		2	1
Technology Safety & Security Subtotal:							\$641,841			
Technology & Safety Infrastructure Subtotal:							\$1,810,786			
REMODELING SUBTOTAL:							\$11,826,796			

INSTRUCTIONAL TECHNOLOGY

Computers & Mobile Devices										
		purchase devices	339,604	sqft	2.50	849,010	\$857,500		1	1
		devices - refresh	1	allo	500,000.00	500,000	\$505,000		3	3
Audio / Visual										
		purchase AV devices	339,604	sqft	2.50	849,010	\$857,500		1	1
		av - refresh	1	allo	500,000.00	500,000	\$505,000		3	3
INSTRUCTIONAL TECHNOLOGY SUBTOTAL:							\$2,725,000			

LOOSE FURNISHINGS & EQUIPMENT

Furnishings, Furniture & Equipment										
		purchase furniture	1	allo	250,000.00	250,000	\$250,000		3	3

WATERFORD SCHOOL DISTRICT		Grades: 9-12
2021 BOND PROGRAM	<i>PRELIMINARY - FOR DISCUSSION PURPOSE ONLY</i>	Teaching Stations: 64
KETTERING HIGH SCHOOL	Year Built: 1962	Capacity: 1,360
2800 Kettering Drive	Site Acreage: 49.00	Enrollment:
Building Project Work List	Building Size: 339,604	Date: 12/3/19

Category	Subcategory	Description	Qty.	Unit	Unit Cost	Direct Cost	Total w/ G.C. & escalation	Notes	Category Priority	Series
		purchase classroom furniture	80	each	10,000.00	800,000	\$800,000		3	1
		purchase media center furniture	1	allo	150,000.00	150,000	\$150,000		3	1
		purchase STEM/CTE equipment	1	allo	100,000.00	100,000	\$100,000		3	1
		purchase band instruments	1	allo	100,000.00	100,000	\$100,000		3	1
		purchase athletic equipment	1	allo	100,000.00	100,000	\$100,000		3	1
		F, F & E Subtotal:					\$1,500,000			
		LOOSE FURNISHINGS & EQUIPMENT SUBTOTAL:					\$1,500,000			

BUILDING TOTAL:	\$20,346,785	24,916,063
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Notes:	Construction Contingency:	\$1,884,679
<i>escalation calculated to mid-point of project</i>	Design Consultants:	\$1,531,892
<i>general conditions (G.C.) include; testing, permits, & temp items</i>	Construction Manager:	\$1,152,708
<i>indirect costs include contingency and professional fees</i>	PROJECT TOTAL:	\$24,916,063

Building Utilization

School Building Name

Kettering High School

Project No. 12

Current Grade Structure 9-12
Proposed Grade Structure 9-12

1. List the number of teaching stations in appropriate column.
2. Calculate total capacity using the applicable capacity factor.
3. Enter five (5) year projected enrollment.
4. Calculate building utilization rate.
5. Attach floor plan of the building. Show the rooms and category (existing, proposed new, closed).
6. Number the teaching stations in consecutive order.

Existing	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary		20	0
(3-5) Upper Elementary		25	0
(6-8) Junior High		22.5	0
(9-12) High School	64	21.25	1,360
Subtotal	64		1,360
Proposed New	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary		20	0
(3-5) Upper Elementary		25	0
(6-8) Junior High		22.5	0
(9-12) High School		21.25	0
Subtotal	0		0
Total	64		1,360

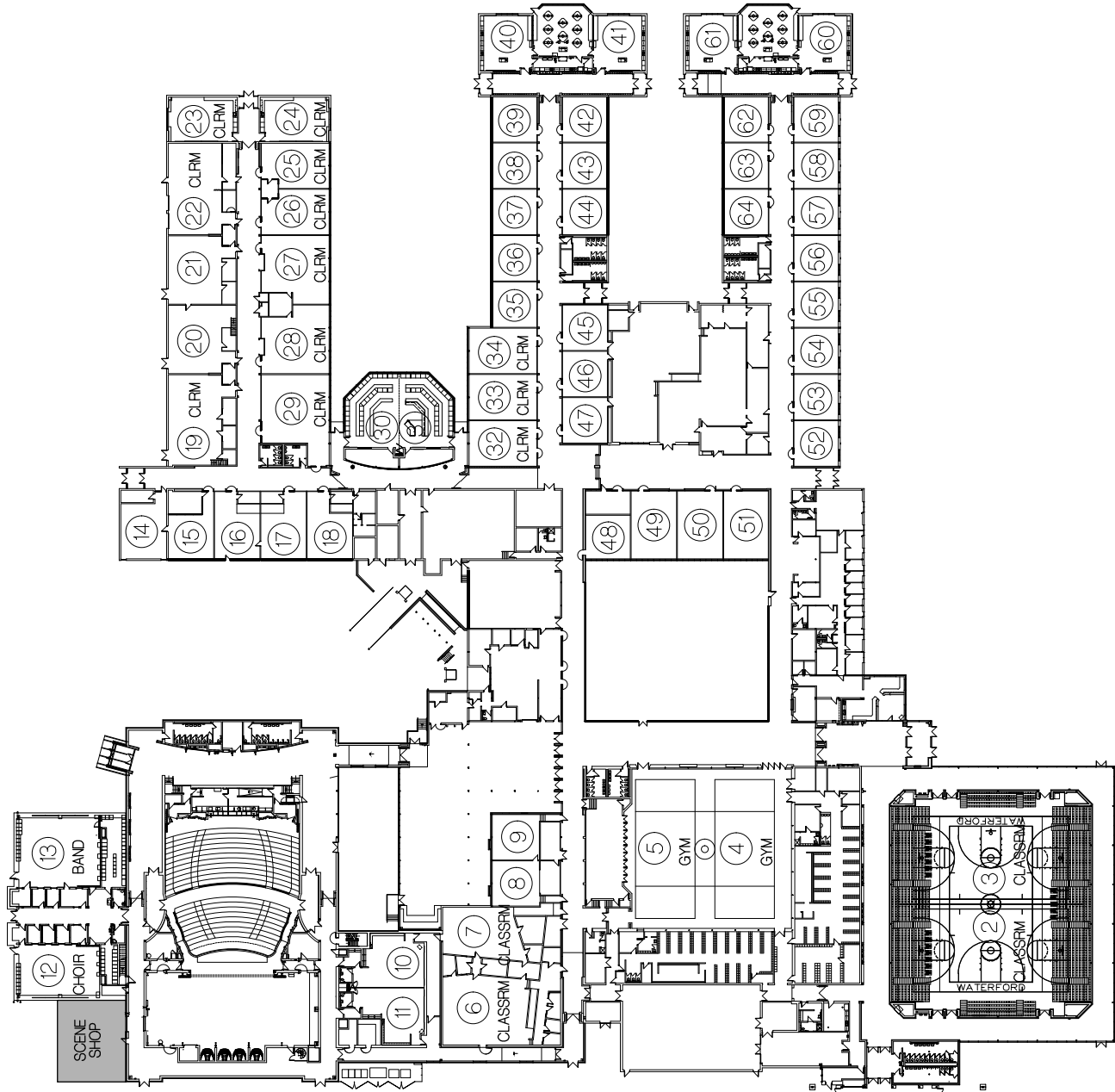
Facility to be Closed	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary		20	0
(3-5) Upper Elementary		25	0
(6-8) Junior High		22.5	0
(9-12) High School		21.25	0
Total	0		0

Projected 5-Year Enrollment 1,050

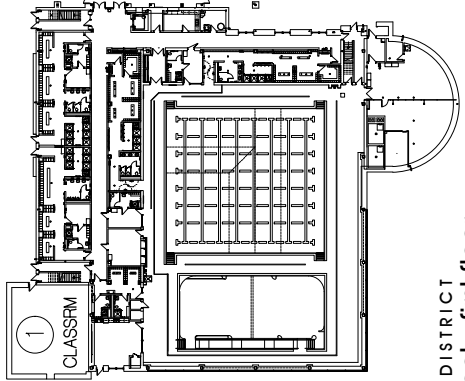
Utilization Percentage 77%

(Projected 5-Year Enrollment / Total Capacity)

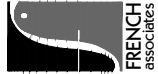
Please transfer applicable information to the Utilization Summary on Page 6 of the application.



STUDENT CAPACITY
64 CR x 2125 STUD. - 1360 TS



architect planners interior



WATERFORD SCHOOL DISTRICT
kettering high school - first floor
composite plan
december, 2019

Project Sheet

Mott High School
Project No. 13

Description of Series 1	build scene shop and ticket booth, renovate, replace mechanical equipment, upgrade lighting, replace fire alarm, upgrade tech infrastructure, furniture
Description of Series 2	repave parking lot and replace roof
Description of Series 3	upgrade technology infrastructure, purchase instructional technology and furniture
Instructional Technology Description	purchase student devices and classroom audio visual systems
Site Work Description	repave parking lot, upgrade fencing, landscaping, site work for addition

Construction Cost Per Square Foot

*cost includes escalation and utilities

New Construction Square Ft	n/a	Cost per Sq Ft	n/a
New Addition Square Ft.	2,250	Cost per Sq Ft	\$301.37

Statement describing any existing environmental or usability problems the proposed project will address. (ex: asbestos, energy use, or ADA requirements)

abate asbestos materials and upgrade lighting for energy savings

Estimated Cost of Proposed Construction Project

Column1	Series 1	Series 2	Series 3	Total
New Construction	\$678,091	\$0	\$0	\$678,091
Remodeling	\$9,679,771	\$3,149,121	\$207,179	\$13,036,071
Construction Contingencies	\$1,246,559	\$648,335	\$121,718	\$2,016,612
Instructional Technology	\$1,823,757	\$0	\$1,010,000	\$2,833,757
Loose Furnishing/Equipment	\$1,250,000	\$0	\$250,000	\$1,500,000
Buses	\$0	\$0	\$0	\$0
Site Work	\$283,972	\$3,334,232	\$0	\$3,618,204
Site Acquisition	\$0	\$0	\$0	\$0
Architectural Fees and Costs	\$1,013,113	\$531,667	\$94,760	\$1,639,540
CM Fees and Costs	\$760,891	\$463,560	\$14,813	\$1,239,264
Estimated Costs	\$16,736,153	\$8,126,916	\$1,698,470	\$26,561,539

Certificate by Registered Architect

I certify that I have assessed the conditions relative to this facility and the details of the proposed project(s) described above and the attached detail relative to the construction project(s) are true and correct to the best of my knowledge and belief.

Signature	12/10/2019	French Associates	1301031750
	Date	Firm Name and License Number	

Paul A. Corneliusen, AIA	paulc@frenchaia.com	248-656-1377
Printed Name	E-mail Address	Phone Number

WATERFORD SCHOOL DISTRICT	PRELIMINARY - FOR DISCUSSION PURPOSE ONLY	Grades: 9-12
2021 BOND PROGRAM		Teaching Stations: 70
MOTT HIGH SCHOOL	Year Built: 1967	Capacity: 1,488
1151 Scott Lake	Site Acreage: 69.00	Enrollment:
Building Project Work List	Building Size: 361,140	Date: 12/3/19

Category	Subcategory	Qty.	Unit	Unit Cost	Direct Cost	Total w/ G.C. & escalation	Notes	Category Priority	Series
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SITE WORK

Paving Work									
	replace asphalt - parking lots	276,500	sqft	6.00	1,659,000	\$1,903,472		1	2
	replace asphalt - driveways	133,000	sqft	9.00	1,197,000	\$1,373,391		1	2
	replace concrete	25,000	sqft	8.00	200,000	\$229,472		1	1
Paving Work Subtotal:						\$3,506,336			
Site Improvements									
	upgrade fencing	1	allo	50,000.00	50,000	\$57,368		2	2
	replace landscaping	1	allo	25,000.00	25,000	\$28,684		1	1
	site work for addition	2,250	sqft	10.00	22,500	\$25,816		3	1
Site Improvement Subtotal:						\$111,868			
SITE WORK SUBTOTAL:						\$3,618,204			

NEW CONSTRUCTION

	build scene shop for auditorium	2,000	sqft	233.00	466,000	\$534,670		3	1
	build ticket booth/entry feature	250	sqft	500.00	125,000	\$143,420		3	1
2,250	NEW CONSTRUCTION SUBTOTAL:	\$678,091							

REMODELING

Roofing Work									
	replace roof	144,456	sqft	19.00	2,744,664	\$3,149,121	built-up roof	1	2
Roofing Work Subtotal:						\$3,149,121			
Architectural Work									
	abate asbestos/hazardous materials	1	allo	100,000.00	100,000	\$114,736		1	1
	update auditorium curtains/rigging	1	allo	75,000.00	75,000	\$86,052		4	1
	update finishes	92,000	sqft	20.00	1,840,000	\$2,111,145	floors, ceilings, paint, casework	3	1
	renovate media center	10,000	sqft	75.00	750,000	\$860,521		3	1
	create secure entry at Pontiac side	1	lpsm	500,000.00	500,000	\$573,681		2	1
	renovations for addition	2,000	sqft	10.00	20,000	\$22,947	connection allowance	3	1
Architectural Work Subtotal:						\$3,769,082			
Mechanical Work									
Plumbing work									
	replace domestic piping	361,140	sqft	2.00	722,280	\$828,716		1	1
HVAC Systems									
	replace boiler system	1	lpsm	500,000.00	500,000	\$573,681		1	1
	adding AC for old gym	15,000	sqft	25.00	375,000	\$430,260		3	1
	update pool equipment	1	lpsm	250,000.00	250,000	\$286,840		1	1
Integrated Automation									
	upgrade temperature controls	1	lpsm	75,000.00	75,000	\$86,052			1
Mechanical Work Subtotal:						\$2,205,550			
Electrical Work									
Lighting									
	replace lighting - classrooms	92,000	sqft	9.00	828,000	\$950,015		3	1
	update lighting - pool	1	lpsm	50,000.00	50,000	\$57,368		3	1
	update lighting - auditorium	1	allo	250,000.00	250,000	\$286,840	stage & house lighting	3	1
Communications									
	upgrade sound system - auditorium	1	lpsm	50,000.00	50,000	\$57,368		3	1
Electronic Safety and Security									
	upgrade PA system	1	lpsm	15,000.00	15,000	\$17,210		2	1
	upgrade fire alarm	361,140	sqft	1.50	541,710	\$621,537		1	1
Electrical Work Subtotal:						\$1,990,339			
Construction Subtotal:						\$11,114,092			
Technology Infrastructure									
	upgrade network infrastructure	361,140	sqft	2.50	902,850	\$1,035,895		1	1
	upgrade cabling	361,140	sqft	0.50	180,570	\$207,179		3	3
Technology Infrastructure Subtotal:						\$1,243,074			
Technology Safety & Security									
	add security cameras	361,140	sqft	0.50	180,570	\$207,179		2	1
	upgrade security infrastructure	361,140	sqft	1.00	361,140	\$414,358		2	1
	add access control at pool	4	each	10,000.00	40,000	\$45,894		2	1
	add access control to elevator	1	allo	10,000.00	10,000	\$11,474		2	1
Technology Safety & Security Subtotal:						\$678,905			
Technology & Safety Infrastructure Subtotal:						\$1,921,979			
REMODELING SUBTOTAL:						\$13,036,071			

INSTRUCTIONAL TECHNOLOGY

Computers & Mobile Devices									
	purchase devices	361,140	sqft	2.50	902,850	\$911,879		1	1
	devices - refresh	1	allo	500,000.00	500,000	\$505,000		3	3
Audio / Visual									
	purchase AV devices	361,140	sqft	2.50	902,850	\$911,879		1	1
	av - refresh	1	allo	500,000.00	500,000	\$505,000		3	3
INSTRUCTIONAL TECHNOLOGY SUBTOTAL:						\$2,833,757			

LOOSE FURNISHINGS & EQUIPMENT

WATERFORD SCHOOL DISTRICT	<i>PRELIMINARY - FOR DISCUSSION PURPOSE ONLY</i>	Grades: 9-12
2021 BOND PROGRAM		Teaching Stations: 70
MOTT HIGH SCHOOL	Year Built: 1967	Capacity: 1,488
1151 Scott Lake	Site Acreage: 69.00	Enrollment:
Building Project Work List	Building Size: 361,140	Date: 12/3/19

Category	Subcategory	Description	Qty.	Unit	Unit Cost	Direct Cost	Total w/ G.C. & escalation	Notes	Category Priority	Series
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Furnishings, Furniture & Equipment

		purchase furniture	1	allo	250,000.00	250,000	\$250,000		3	3
		purchase classroom furniture	80	each	10,000.00	800,000	\$800,000		3	1
		purchase media center furniture	1	allo	150,000.00	150,000	\$150,000		3	1
		purchase STEM/CTE equipment	1	allo	100,000.00	100,000	\$100,000		3	1
		purchase band instruments	1	allo	100,000.00	100,000	\$100,000		3	1
		purchase athletic equipment	1	allo	100,000.00	100,000	\$100,000		3	1

F, F & E Subtotal: \$1,500,000

LOOSE FURNISHINGS & EQUIPMENT SUBTOTAL: \$1,500,000

BUILDING TOTAL:	\$21,666,122	26,561,539
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Notes:	Construction Contingency:	\$2,016,612
escalation calculated to mid-point of project	Design Consultants:	\$1,639,540
general conditions (G.C.) include; testing, permits, & temp items	Construction Manager:	\$1,239,264
indirect costs include contingency and professional fees	PROJECT TOTAL:	\$26,561,539

Building Utilization

School Building Name

Mott High School

Project No. 13

Current Grade Structure 9-12
Proposed Grade Structure 9-12

1. List the number of teaching stations in appropriate column.
2. Calculate total capacity using the applicable capacity factor.
3. Enter five (5) year projected enrollment.
4. Calculate building utilization rate.
5. Attach floor plan of the building. Show the rooms and category (existing, proposed new, closed).
6. Number the teaching stations in consecutive order.

Existing	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary		20	0
(3-5) Upper Elementary		25	0
(6-8) Junior High		22.5	0
(9-12) High School	70	21.25	1,488
Subtotal	70		1,488

Proposed New	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary		20	0
(3-5) Upper Elementary		25	0
(6-8) Junior High		22.5	0
(9-12) High School		21.25	0
Subtotal	0		0

Total	70	1,488
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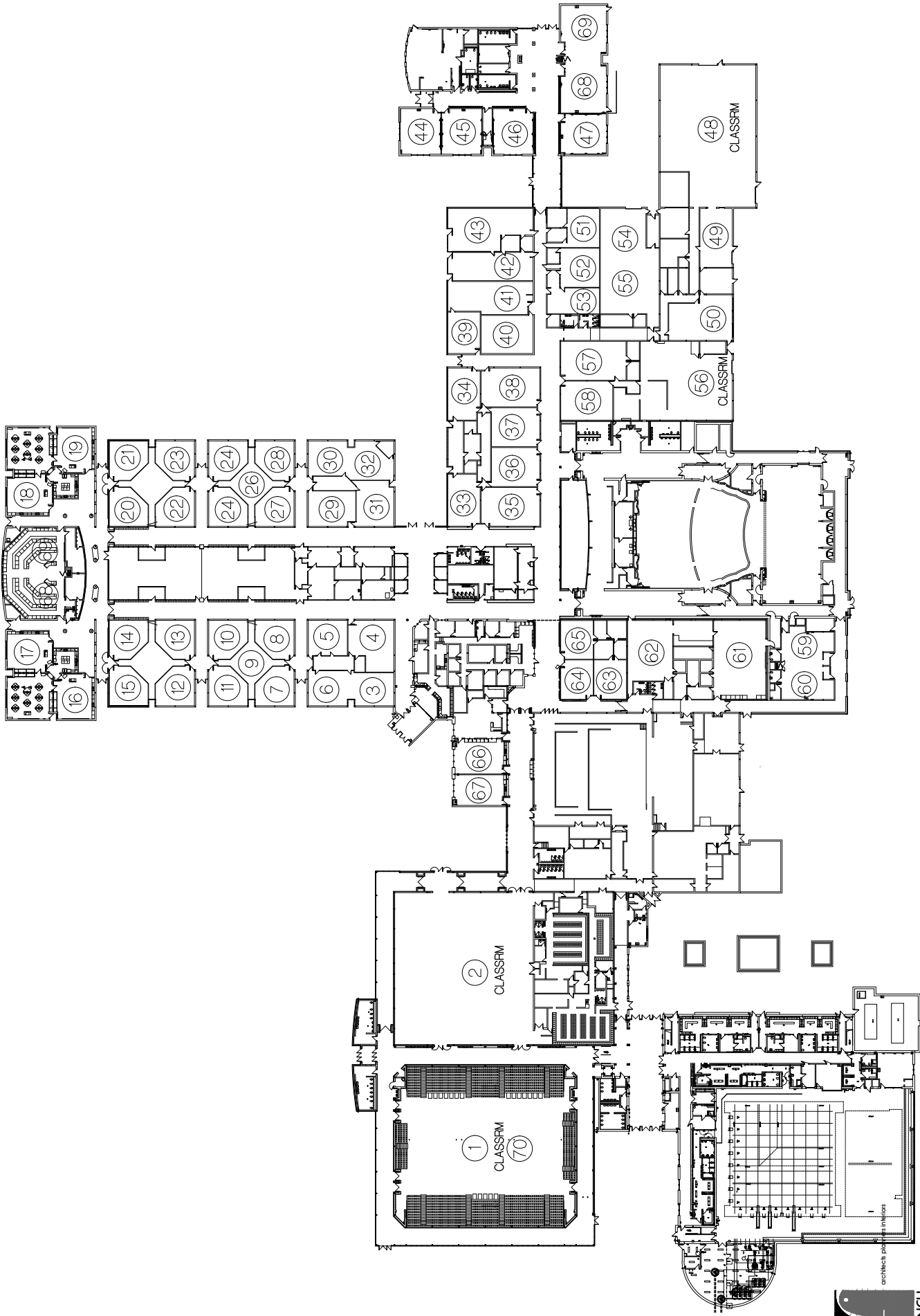
Facility to be Closed	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary		20	0
(3-5) Upper Elementary		25	0
(6-8) Junior High		22.5	0
(9-12) High School		21.25	0
Total	0		0

Projected 5-Year Enrollment 1,150

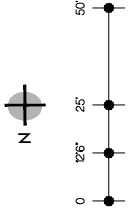
Utilization Percentage 77%

(Projected 5-Year Enrollment / Total Capacity)

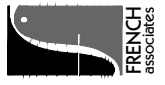
Please transfer applicable information to the Utilization Summary on Page 6 of the application.



STUDENT CAPACITY
70 CR x 2125 STUD. - 1487.5 TS



WATERFORD SCHOOL DISTRICT
mott high school - first floor
composite plan
december, 2019



Project Sheet

Kingsley Montgomery (Special Education)
Project No. 14

Description of Series 1	n/a
Description of Series 2	replace roof, site work, replace fire alarm
Description of Series 3	purchase instructional technology
Instructional Technology Description	purchase student devices and classroom audio visual systems
Site Work Description	upgrade fencing

Construction Cost Per Square Foot

New Construction Square Ft	n/a	Cost per Sq Ft	n/a
New Addition Square Ft.	n/a	Cost per Sq Ft	n/a

Statement describing any existing environmental or usability problems the proposed project will address. (ex: asbestos, energy use, or ADA requirements)

abate asbestos materials

Estimated Cost of Proposed Construction Project

Column1	Series 1	Series 2	Series 3	Total
New Construction	\$0	\$0	\$0	\$0
Remodeling	\$0	\$1,475,318	\$0	\$1,475,318
Construction Contingencies	\$0	\$171,751	\$20,200	\$191,951
Instructional Technology	\$0	\$213,509	\$202,000	\$415,509
Loose Furnishing/Equipment	\$0	\$250,000	\$0	\$250,000
Buses	\$0	\$0	\$0	\$0
Site Work	\$0	\$28,684	\$0	\$28,684
Site Acquisition	\$0	\$0	\$0	\$0
Architectural Fees and Costs	\$0	\$139,776	\$15,554	\$155,330
CM Fees and Costs	\$0	\$107,536	\$0	\$107,536
Estimated Costs	\$0	\$2,386,574	\$237,754	\$2,624,328

Certificate by Registered Architect

I certify that I have assessed the conditions relative to this facility and the details of the proposed project(s) described above and the attached detail relative to the construction project(s) are true and correct to the best of my knowledge and belief.

Signature	12/10/2019	French Associates	1301031750
	Date	Firm Name and License Number	

Paul A. Corneliusen, AIA	paulc@frenchaia.com	248-656-1377
Printed Name	E-mail Address	Phone Number

WATERFORD SCHOOL DISTRICT	PRELIMINARY - FOR DISCUSSION PURPOSE ONLY	Grades: S.E.
2021 BOND PROGRAM		Teaching Stations: n/a
KINGSLEY MONTGOMERY (SPECIAL EDUCATION)	Year Built: 1978	Capacity: n/a
4265 Halkirk	Site Acreage: 4.00	Enrollment: n/a
Building Project Work List	Building Size: 42,279	Date: 12/3/19

Category	Subcategory	Qty.	Unit	Unit Cost	Direct Cost	Total w/ G.C. & escalation	Notes	Category Priority	Series
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SITE WORK

Site Improvements

upgrade fencing	1	allo	25,000.00	25,000	\$28,684			2	2
Site Improvement Subtotal:					\$28,684				
SITE WORK SUBTOTAL:					\$28,684				

REMODELING

Roofing Work

replace roofing	42,279	sqft	19.00	803,301	\$921,676			3	2
Roofing Work Subtotal:					\$921,676				

Architectural Work

address bus canopy structure	1	lpsm	250,000.00	250,000	\$286,840	6,000 sqft		1	2
Architectural Work Subtotal:					\$286,840				

Electrical Work

Electronic Safety and Security

upgrade fire alarm	42,279	sqft	1.50	63,419	\$72,764			1	2
Electrical Work Subtotal:					\$72,764				
Construction Subtotal:					\$1,281,281				

Technology Infrastructure

upgrade network infrastructure	42,279	sqft	2.50	105,698	\$121,273			1	2
Technology Infrastructure Subtotal:					\$121,273				

Technology Safety & Security

add security cameras	42,279	sqft	0.50	21,140	\$24,255			2	2
upgrade security infrastructure	42,279	sqft	1.00	42,279	\$48,509			2	2
Technology Safety & Security Subtotal:					\$72,764				
Technology & Safety Infrastructure Subtotal:					\$194,037				
REMODELING SUBTOTAL:					\$1,475,318				

INSTRUCTIONAL TECHNOLOGY

Computers & Mobile Devices

purchase devices	42,279	sqft	2.50	105,698	\$106,754			1	2
devices - refresh	1	allo	100,000.00	100,000	\$101,000			3	3

Audio / Visual

purchase AV devices	42,279	sqft	2.50	105,698	\$106,754			1	2
av - refresh	1	allo	100,000.00	100,000	\$101,000			3	3
INSTRUCTIONAL TECHNOLOGY SUBTOTAL:					\$415,509				

LOOSE FURNISHINGS & EQUIPMENT

Furnishings, Furniture & Equipment

purchase furniture	1	allo	50,000.00	50,000	\$50,000			3	2
purchase classroom furniture	20	each	10,000.00	200,000	\$200,000			3	2
F, F & E Subtotal:					\$250,000				
LOOSE FURNISHINGS & EQUIPMENT SUBTOTAL:					\$250,000				

BUILDING TOTAL:	\$2,169,511	2,624,328
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Notes:	Construction Contingency:	\$191,951
escalation calculated to mid-point of project	Design Consultants:	\$155,330
general conditions (G.C.) include; testing, permits, & temp items	Construction Manager:	\$107,536
indirect costs include contingency and professional fees	PROJECT TOTAL:	\$2,624,328

Project Sheet

Stepanski Early Childhood Center

Project No. 15

Description of Series 1	site work for new building
Description of Series 2	build new building, demolish old building
Description of Series 3	purchase instructional technology
Instructional Technology Description	purchase student devices and classroom audio visual systems
Site Work Description	new playground, new parking lot, site work for new building

Construction Cost Per Square Foot

*cost includes escalation

New Construction Square Ft	65,000	Cost per Sq Ft	\$267.34
New Addition Square Ft.	n/a	Cost per Sq Ft	n/a

Statement describing any existing environmental or usability problems the proposed project will address. (ex: asbestos, energy use, or ADA requirements)

abate asbestos materials prior to demolition

Estimated Cost of Proposed Construction Project

Column1	Series 1	Series 2	Series 3	Total
New Construction	\$0	\$17,376,787	\$0	\$17,376,787
Remodeling	\$303,268	\$1,099,598	\$0	\$1,402,866
Construction Contingencies	\$211,681	\$1,940,700	\$20,200	\$2,172,581
Instructional Technology	\$0	\$328,250	\$202,000	\$530,250
Loose Furnishing/Equipment	\$0	\$975,000	\$0	\$975,000
Buses	\$0	\$0	\$0	\$0
Site Work	\$1,813,541	\$602,365	\$0	\$2,415,906
Site Acquisition	\$0	\$0	\$0	\$0
Architectural Fees and Costs	\$173,589	\$1,589,828	\$15,554	\$1,778,971
CM Fees and Costs	\$151,352	\$1,364,131	\$0	\$1,515,482
Estimated Costs	\$2,653,431	\$25,276,658	\$237,754	\$28,167,843

Certificate by Registered Architect

I certify that I have assessed the conditions relative to this facility and the details of the proposed project(s) described above and the attached detail relative to the construction project(s) are true and correct to the best of my knowledge and belief.

Signature	12/10/2019	French Associates	1301031750
	Date	Firm Name and License Number	

Paul A. Corneliusen, AIA	paulc@frenchaia.com	248-656-1377
Printed Name	E-mail Address	Phone Number

WATERFORD SCHOOL DISTRICT	PRELIMINARY - FOR DISCUSSION PURPOSE ONLY	Grades: n/a
2021 BOND PROGRAM		Teaching Stations: n/a
STEPANSKI EARLY CHILDHOOD CENTER	Year Built: 2022	Capacity: n/a
6010 Hatchery	Site Acreage: 11.00	Enrollment: n/a
Building Project Work List	Building Size: 65,000	Date: 12/3/19

Category	Subcategory	Qty.	Unit	Unit Cost	Direct Cost	Total w/ G.C. & escalation	Notes	Category Priority	Series
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SITE WORK

Paving Work									
	asphalt parking	1	allo	350,000.00	350,000	\$401,576	includes topping existing lot	3	2
	asphalt drives	1	allo	100,000.00	100,000	\$114,736		3	2
	add concrete walks	1	allo	75,000.00	75,000	\$86,052		3	2
Paving Work Subtotal:						\$602,365			
Site Improvements									
	install playground	1	allo	430,619.22	430,619	\$494,076		3	1
	install road work	1	allo	500,000.00	500,000	\$573,681	turn/bypass lanes	3	1
	site work for building	65,000	sqft	10.00	650,000	\$745,785	utilities, restoration	3	1
Site Improvement Subtotal:						\$1,813,541			
SITE WORK SUBTOTAL:						\$2,415,906			

NEW CONSTRUCTION

	build new building	65,000	sqft	233.00	15,145,000	\$17,376,787		3	2
		65,000				\$17,376,787			

REMODELING

Architectural Work									
	abate asbestos/hazardous materials	44,053	sqft	6.00	264,318	\$303,268	if new building	3	1
	demo old building	44,053	sqft	7.00	308,371	\$353,813	if new building	3	2
Architectural Work Subtotal:						\$657,081			
Mechanical Work									
	included								
Mechanical Work Subtotal:						\$0			
Electrical Work									
	included								
Electrical Work Subtotal:						\$0			
Construction Subtotal:						\$657,081			
Technology Infrastructure									
	upgrade network infrastructure	65,000	sqft	5.00	325,000	\$372,892		3	2
Technology Infrastructure Subtotal:						\$372,892			
Technology Safety & Security									
	upgrade security infrastructure	65,000	sqft	5.00	325,000	\$372,892		3	2
Technology Safety & Security Subtotal:						\$372,892			
Technology & Safety Infrastructure Subtotal:						\$745,785			
REMODELING SUBTOTAL:						\$1,402,866			

INSTRUCTIONAL TECHNOLOGY

Computers & Mobile Devices									
	purchase devices	65,000	sqft	2.50	162,500	\$164,125		3	2
	devices - refresh	1	allo	100,000.00	100,000	\$101,000		3	3
Audio / Visual									
	purchase AV devices	65,000	sqft	2.50	162,500	\$164,125		3	2
	av - refresh	1	allo	100,000.00	100,000	\$101,000		3	3
INSTRUCTIONAL TECHNOLOGY SUBTOTAL:						\$530,250			

LOOSE FURNISHINGS & EQUIPMENT

Furnishings, Furniture & Equipment									
	purchase furniture	65,000	sqft	10.00	650,000	\$650,000		3	2
	purchase furnishings	65,000	sqft	2.50	162,500	\$162,500		3	2
	purchase equipment	65,000	sqft	2.50	162,500	\$162,500		3	2
F, F & E Subtotal:						\$975,000			
LOOSE FURNISHINGS & EQUIPMENT SUBTOTAL:						\$975,000			

BUILDING TOTAL:	\$22,700,809	28,167,843
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Notes:	Construction Contingency:	\$2,172,581
escalation calculated to mid-point of project	Design Consultants:	\$1,778,971
general conditions (G.C.) include; testing, permits, & temp items	Construction Manager:	\$1,515,482
indirect costs include contingency and professional fees	PROJECT TOTAL:	\$28,167,843

Early Childhood

Waterford School District

Waterford, Michigan

256 planned students, early childhood	CAPACITY students	NET SQUARE FEET total	GROSSING factor	GROSS SQUARE FEET total
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A. Area Summary

1. Total area		48,120 nsf	1.35	65,000 gsf
2. Target area				
Difference		48,120 nsf		65,000 gsf

B. Capacity Summary

1. Teaching Stations	0	380 students		
2. Efficiency Factor	100%			
3. Effective Student Capacity		380 students		

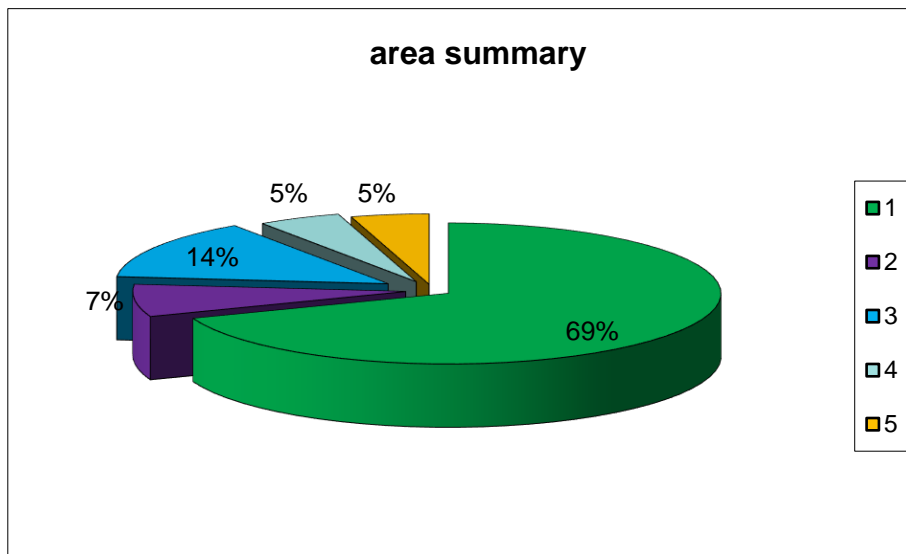
C. Area Analysis

1. Square feet per student: Planned	256 students	254 gsf
2. Square feet per student: Actual	380 students	171 gsf

D. Area Comparison

1. Learning/Academic	69%	33,280 gsf	45,000 gsf
2. Admin/Staff Support	7%	3,590 nsf	4,800 gsf
3. Community/Stakeholder	14%	6,700 nsf	9,000 gsf
4. Media/Tech	5%	2,350 nsf	3,200 gsf
5. Facility Mgt/Support	5%	2,200 nsf	3,000 gsf
Total GSF	100%	48,120 nsf	65,000 gsf

E. Area Chart



Project Sheet

Administration Building

Project No. 16

Description of Series 1	n/a
Description of Series 2	replace paving, replce roof, replace windows, upgrade technology infrastructure, purchase staff computers and furniture
Description of Series 3	n/a
Instructional Technology Description	n/a
Site Work Description	repave parking lot

Construction Cost Per Square Foot

New Construction Square Ft.	n/a	Cost per Sq Ft	n/a
New Addition Square Ft.	n/a	Cost per Sq Ft	n/a

Statement describing any existing environmental or usability problems the proposed project will address. (ex: asbestos, energy use, or ADA requirements)

abate asbestos materials prior to construction

Estimated Cost of Proposed Construction Project

Column1	Series 1	Series 2	Series 3	Total
New Construction	\$0	\$0	\$0	\$0
Remodeling	\$0	\$1,867,106	\$0	\$1,867,106
Construction Contingencies	\$0	\$246,834	\$0	\$246,834
Instructional Technology	\$0	\$0	\$0	\$0
Loose Furnishing/Equipment	\$0	\$75,500	\$0	\$75,500
Buses	\$0	\$0	\$0	\$0
Site Work	\$0	\$550,733	\$0	\$550,733
Site Acquisition	\$0	\$0	\$0	\$0
Architectural Fees and Costs	\$0	\$202,163	\$0	\$202,163
CM Fees and Costs	\$0	\$172,876	\$0	\$172,876
Estimated Costs	\$0	\$3,115,213	\$0	\$3,115,213

Certificate by Registered Architect

I certify that I have assessed the conditions relative to this facility and the details of the proposed project(s) described above and the attached detail relative to the construction project(s) are true and correct to the best of my knowledge and belief.

Signature	12/10/2019	French Associates	1301031750
	Date	Firm Name and License Number	

Paul A. Corneliusen, AIA	paulc@frenchaia.com	248-656-1377
Printed Name	E-mail Address	Phone Number

WATERFORD SCHOOL DISTRICT	PRELIMINARY - FOR DISCUSSION PURPOSE ONLY	Grades: n/a
2021 BOND PROGRAM		Teaching Stations: n/a
ADMINISTRATION BUILDING (CRARY)	Year Built: 1954	Capacity: n/a
501 N. Cass Lake	Site Acreage: 47.00	Enrollment: n/a
Building Project Work List	Building Size: 104,983	Date: 12/3/19

Category	Subcategory	Description	Qty.	Unit	Unit Cost	Direct Cost	Total w/ G.C. & escalation	Notes	Category Priority	Series
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SITE WORK

Paving Work										
		replace asphalt - parking lots	60,000	sqft	8.00	480,000	\$550,733		1	2
							Paving Work Subtotal:	\$550,733		
							SITE WORK SUBTOTAL:	\$550,733		

REMODELING

Roofing Work										
		replace roof	41,993	sqft	20.00	839,864	\$963,627	built-up roof	1	2
							Roofing Work Subtotal:	\$963,627		
Architectural Work										
		abate asbestos/hazardous materials	1	allo	50,000.00	50,000	\$57,368		1	2
		address window issue	1	lpsm	300,000.00	300,000	\$344,208		1	2
							Architectural Work Subtotal:	\$401,576		
Mechanical Work										
HVAC Systems										
		replace steam traps	1	lpsm	50,000.00	50,000	\$57,368		1	2
Integrated Automation										
		upgrade temperature controls	1	lpsm	20,000.00	20,000	\$22,947		1	2
							Mechanical Work Subtotal:	\$80,315		
							Construction Subtotal:	\$1,445,519		
Technology Infrastructure										
		upgrade network infrastructure	104,983	sqft	2.50	262,458	\$301,134		1	2
							Technology Infrastructure Subtotal:	\$301,134		
Technology Safety & Security										
		upgrade security infrastructure	104,983	sqft	1.00	104,983	\$120,453		2	2
							Technology Safety & Security Subtotal:	\$120,453		
							Technology & Safety Infrastructure Subtotal:	\$421,587		
							REMODELING SUBTOTAL:	\$1,867,106		

LOOSE FURNISHINGS & EQUIPMENT

Non-Instructional Technology Equipment										
		purchase computers for staff	1	allo	50,000.00	50,000	\$50,500		1	2
							Non-Instructional Technology Equipment Subtotal:	\$50,500		
Furnishings, Furniture & Equipment										
		purchase furniture	1	allo	25,000.00	25,000	\$25,000		3	2
							F, F & E Subtotal:	\$25,000		
							LOOSE FURNISHINGS & EQUIPMENT SUBTOTAL:	\$75,500		

							BUILDING TOTAL:	\$2,493,340		
								3,115,213		

Notes:	Construction Contingency:	\$246,834
escalation calculated to mid-point of project	Design Consultants:	\$202,163
general conditions (G.C.) include; testing, permits, & temp items	Construction Manager:	\$172,876
indirect costs include contingency and professional fees	PROJECT TOTAL:	\$3,115,213

Project Sheet

Covert Center (District Tech Head End)

Project No. 17

Description of Series 1	n/a
Description of Series 2	renovations, replace mechanical equipment, upgrade technology infrastructure, purchase staff computers and furniture
Description of Series 3	upgrade technology infrastructure
Instructional Technology Description	n/a
Site Work Description	n/a

Construction Cost Per Square Foot

New Construction Square Ft	n/a	Cost per Sq Ft	n/a
New Addition Square Ft.	n/a	Cost per Sq Ft	n/a

Statement describing any existing environmental or usability problems the proposed project will address. (ex: asbestos, energy use, or ADA requirements)

abate asbestos materials prior to construction

Estimated Cost of Proposed Construction Project

Column1	Series 1	Series 2	Series 3	Total
New Construction	\$0	\$0	\$0	\$0
Remodeling	\$0	\$1,892,575	\$706,319	\$2,598,894
Construction Contingencies	\$0	\$190,772	\$70,632	\$261,404
Instructional Technology	\$0	\$0	\$0	\$0
Loose Furnishing/Equipment	\$0	\$25,150	\$0	\$25,150
Buses	\$0	\$0	\$0	\$0
Site Work	\$0	\$0	\$0	\$0
Site Acquisition	\$0	\$0	\$0	\$0
Architectural Fees and Costs	\$0	\$156,367	\$57,922	\$214,289
CM Fees and Costs	\$0	\$135,319	\$50,502	\$185,821
Estimated Costs	\$0	\$2,400,183	\$885,374	\$3,285,558

Certificate by Registered Architect

I certify that I have assessed the conditions relative to this facility and the details of the proposed project(s) described above and the attached detail relative to the construction project(s) are true and correct to the best of my knowledge and belief.

Signature	12/10/2019	French Associates	1301031750
	Date	Firm Name and License Number	

Paul A. Corneliusen, AIA	paulc@frenchaia.com	248-656-1377
Printed Name	E-mail Address	Phone Number

WATERFORD SCHOOL DISTRICT	PRELIMINARY - FOR DISCUSSION PURPOSE ONLY	Grades: n/a
2021 BOND PROGRAM		Teaching Stations: n/a
COVERT CENTER (DISTRICT HEAD END)	Year Built: 1928	Capacity: n/a
1150 Scott Lake	Site Acreage: 6.00	Enrollment: n/a
Building Project Work List	Building Size: 22,339	Date: 12/3/19

Category	Subcategory	Qty.	Unit	Unit Cost	Direct Cost	Total w/ G.C. & escalation	Notes	Category Priority	Series
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REMODELING

Architectural Work

abate asbestos/hazardous materials	1	allo	20,000.00	20,000	\$22,947			1	2
reconstruct exterior brick	1	allo	25,000.00	25,000	\$28,684			1	2
modify lintels above windows	1	allo	25,000.00	25,000	\$28,684			1	2

Architectural Work Subtotal: \$80,315

Mechanical Work

HVAC Systems

replace boiler system	1	lpsm	300,000.00	300,000	\$344,208			1	2
upgrade cooling system for head end	1	lpsm	200,000.00	200,000	\$229,472			1	2

Integrated Automation

upgrade temperature controls	1	lpsm	20,000.00	20,000	\$22,947			1	2
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Mechanical Work Subtotal: \$596,628

Construction Subtotal: \$676,943

Technology Infrastructure

upgrade districtwide head end	1	allo	1,037,162.84	1,037,163	\$1,190,000			1	2
upgrade network	1	allo	615,603.00	615,603	\$706,319			1	3

Technology Infrastructure Subtotal: \$1,896,320

Technology Safety & Security

install access control	22,339	sqft	1.00	22,339	\$25,631			2	2
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Technology Safety & Security Subtotal: \$25,631

Technology & Safety Infrastructure Subtotal: \$1,921,950

REMODELING SUBTOTAL: \$2,598,894

LOOSE FURNISHINGS & EQUIPMENT

Non-Instructional Technology Equipment

purchase computers for staff	1	allo	15,000.00	15,000	\$15,150			1	2
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Non-Instructional Technology Equipment Subtotal: \$15,150

Furnishings, Furniture & Equipment

purchase furniture	1	allo	10,000.00	10,000	\$10,000			3	2
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F, F & E Subtotal: \$10,000

LOOSE FURNISHINGS & EQUIPMENT SUBTOTAL: \$25,150

BUILDING TOTAL:					\$2,624,044	3,285,558
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Notes:	Construction Contingency:	\$261,404
escalation calculated to mid-point of project	Design Consultants:	\$214,289
general conditions (G.C.) include; testing, permits, & temp items	Construction Manager:	\$185,821
indirect costs include contingency and professional fees	PROJECT TOTAL:	\$3,285,558

Project Sheet

Transportation Building

Project No. 18

Description of Series 1	purchase buses
Description of Series 2	build storage shed, replace roof, renovations, upgrade technology infrastructure, purchase staff computers, furniture and buses
Description of Series 3	purchase buses
Instructional Technology Description	n/a
Site Work Description	replace entry gates and site work for new storage building

Construction Cost Per Square Foot

New Construction Square Ft	1,000	Cost per Sq Ft	\$172.10
New Addition Square Ft.	n/a	Cost per Sq Ft	n/a

Statement describing any existing environmental or usability problems the proposed project will address. (ex: asbestos, energy use, or ADA requirements)

abate asbestos materials prior to construction

Estimated Cost of Proposed Construction Project

Column1	Series 1	Series 2	Series 3	Total
New Construction	\$0	\$172,104	\$0	\$172,104
Remodeling	\$0	\$836,426	\$0	\$836,426
Construction Contingencies	\$0	\$106,958	\$0	\$106,958
Instructional Technology	\$0	\$0	\$0	\$0
Loose Furnishing/Equipment	\$0	\$25,150	\$0	\$25,150
Buses	\$700,000	\$1,000,000	\$1,000,000	\$2,700,000
Site Work	\$0	\$45,894	\$0	\$45,894
Site Acquisition	\$0	\$0	\$0	\$0
Architectural Fees and Costs	\$0	\$87,635	\$0	\$87,635
CM Fees and Costs	\$0	\$75,391	\$0	\$75,391
Estimated Costs	\$700,000	\$2,349,559	\$1,000,000	\$4,049,559

Certificate by Registered Architect

I certify that I have assessed the conditions relative to this facility and the details of the proposed project(s) described above and the attached detail relative to the construction project(s) are true and correct to the best of my knowledge and belief.

Signature	12/10/2019	French Associates	1301031750
	Date	Firm Name and License Number	

Paul A. Corneliusen, AIA	paulc@frenchaia.com	248-656-1377
Printed Name	E-mail Address	Phone Number

WATERFORD SCHOOL DISTRICT	PRELIMINARY - FOR DISCUSSION PURPOSE ONLY	Grades: n/a
2021 BOND PROGRAM		Teaching Stations: n/a
TRANSPORTATION	Year Built: 1950	Capacity: n/a
4584 Pontiac Lake	Site Acreage: 4.00	Enrollment: n/a
Building Project Work List	Building Size: 14,000	Date: 12/3/19

Category	Subcategory	Description	Qty.	Unit	Unit Cost	Direct Cost	Total w/ G.C. & escalation	Notes	Category Priority	Series
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SITE WORK

Site Improvements

replace gates at both entrances	2	each	15,000.00		30,000		\$34,421		2	2
site work for new structure	1,000	sqft	10.00		10,000		\$11,474		3	2
Site Improvement Subtotal:							\$45,894			
SITE WORK SUBTOTAL:							\$45,894			

NEW CONSTRUCTION

build storage shed	1,000	sqft	150.00		150,000		\$172,104	parts & fluids	3	2
NEW CONSTRUCTION SUBTOTAL:							\$172,104			

REMODELING

Roofing Work

replace roof	14,000	sqft	20.00		280,000		\$321,261	built-up roof	1	2
Roofing Work Subtotal:							\$321,261			

Architectural Work

abate asbestos/hazardous materials	1	allo	20,000.00		20,000		\$22,947		1	2
add signage	1	lpsm	10,000.00		10,000		\$11,474		3	2
replace garage hoist	1	lpsm	50,000.00		50,000		\$57,368		1	2
replace above ground oil tank	1	lpsm	50,000.00		50,000		\$57,368		1	2
upgrade bus wash system	1	lpsm	250,000.00		250,000		\$286,840	20 yrs old-want touchless system	1	2
Architectural Work Subtotal:							\$435,997			

Mechanical Work

Integrated Automation

upgrade temperature controls	1	lpsm	20,000.00		20,000		\$22,947		1	2
Mechanical Work Subtotal:							\$22,947			

Construction Subtotal: \$780,206

Technology Infrastructure

upgrade network infrastructure	14,000	sqft	2.50		35,000		\$40,158		1	2
Technology Infrastructure Subtotal:							\$40,158			

Technology Safety & Security

upgrade security infrastructure	14,000	sqft	1.00		14,000		\$16,063		2	2
Technology Safety & Security Subtotal:							\$16,063			

Technology & Safety Infrastructure Subtotal: \$56,221

REMODELING SUBTOTAL: \$836,426

LOOSE FURNISHINGS & EQUIPMENT

Non-Instructional Technology Equipment

purchase computers for staff	1	allo	15,000.00		15,000		\$15,150	office & drivers lounge	1	2
Non-Instructional Technology Equipment Subtotal:							\$15,150			

Furnishings, Furniture & Equipment

purchase furniture	1	allo	10,000.00		10,000		\$10,000		3	2
F, F & E Subtotal:							\$10,000			

LOOSE FURNISHINGS & EQUIPMENT SUBTOTAL: \$25,150

BUSES

purchase buses	7	each	100,000.00		700,000		\$700,000	2022-2023	1	1
purchase buses - series 2	10	each	100,000.00		1,000,000		\$1,000,000	2024-2026	1	2
purchase buses - series 3	10	each	100,000.00		1,000,000		\$1,000,000	2027-2028	3	3
BUSES SUBTOTAL:							\$2,700,000			

BUILDING TOTAL: \$3,779,575

4,049,559

Notes:

escalation calculated to mid-point of project
 general conditions (G.C.) include; testing, permits, & temp items
 indirect costs include contingency and professional fees

Construction Contingency: \$106,958

Design Consultants: \$87,635

Construction Manager: \$75,391

PROJECT TOTAL: \$4,049,559

Project Sheet

Warehouse	Project No. 19
Description of Series 1	n/a
Description of Series 2	build storage shed and truck canopy, replace roofing, upgrade technology infrastructure, purchase staff computers and furniture
Description of Series 3	n/a
Instructional Technology Description	n/a
Site Work Description	repave parking lot, site work for new structures

Construction Cost Per Square Foot

New Construction Square Ft	7,500	Cost per Sq Ft	\$86.05
New Addition Square Ft.	n/a	Cost per Sq Ft	n/a

Statement describing any existing environmental or usability problems the proposed project will address. (ex: asbestos, energy use, or ADA requirements)

abate asbestos materials prior to construction

Estimated Cost of Proposed Construction Project

Column1	Series 1	Series 2	Series 3	Total
New Construction	\$0	\$645,391	\$0	\$645,391
Remodeling	\$0	\$180,480	\$0	\$180,480
Construction Contingencies	\$0	\$201,018	\$0	\$201,018
Instructional Technology	\$0	\$0	\$0	\$0
Loose Furnishing/Equipment	\$0	\$25,150	\$100,000	\$125,150
Buses	\$0	\$0	\$0	\$0
Site Work	\$0	\$1,169,161	\$0	\$1,169,161
Site Acquisition	\$0	\$0	\$0	\$0
Architectural Fees and Costs	\$0	\$164,769	\$0	\$164,769
CM Fees and Costs	\$0	\$142,645	\$0	\$142,645
Estimated Costs	\$0	\$2,528,614	\$100,000	\$2,628,614

Certificate by Registered Architect

I certify that I have assessed the conditions relative to this facility and the details of the proposed project(s) described above and the attached detail relative to the construction project(s) are true and correct to the best of my knowledge and belief.

Signature	Date	Firm Name and License Number
	12/10/2019	French Associates 1301031750

Printed Name	E-mail Address	Phone Number
Paul A. Corneliusen, AIA	paulc@frenchaia.com	248-656-1377

WATERFORD SCHOOL DISTRICT	PRELIMINARY - FOR DISCUSSION PURPOSE ONLY	Grades: n/a
2021 BOND PROGRAM		Teaching Stations: n/a
WAREHOUSE	Year Built: 1980	Capacity: n/a
1145 Tee Cee	Site Acreage: 3.00	Enrollment: n/a
Building Project Work List	Building Size: 27,800	Date: 12/3/19

Category	Subcategory	Description	Qty.	Unit	Unit Cost	Direct Cost	Total w/ G.C. & escalation	Notes	Category Priority	Series
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SITE WORK

Paving Work										
		replace asphalt - parking lots	118,000	sqft	8.00	944,000	\$1,083,109		1	2
							Paving Work Subtotal:	\$1,083,109		
Site Improvements										
		site work for new structures	7,500	sqft	10.00	75,000	\$86,052		3	2
							Site Improvement Subtotal:	\$86,052		
							SITE WORK SUBTOTAL:	\$1,169,161		

NEW CONSTRUCTION

		build salt/aggregate storage shed	3,000	sqft	75.00	225,000	\$258,156		3	2
		build truck canopy	4,500	sqft	75.00	337,500	\$387,234	12 trucks, with plugs	3	2
			7,500			NEW CONSTRUCTION SUBTOTAL:	\$645,391			

REMODELING

Roofing Work										
		replace roof - pole barn	2	each	20,000.00	40,000	\$45,894	1,300 sqft each	1	2
							Roofing Work Subtotal:	\$45,894		
Mechanical Work										
Integrated Automation										
		upgrade temperature controls	1	lpsm	20,000.00	20,000	\$22,947		1	2
							Mechanical Work Subtotal:	\$22,947		
							Construction Subtotal:	\$68,842		
Technology Infrastructure										
		upgrade network infrastructure	27,800	sqft	2.50	69,500	\$79,742		1	2
							Technology Infrastructure Subtotal:	\$79,742		
Technology Safety & Security										
		upgrade security infrastructure	27,800	sqft	1.00	27,800	\$31,897		2	2
							Technology Safety & Security Subtotal:	\$31,897		
							Technology & Safety Infrastructure Subtotal:	\$111,638		
							REMODELING SUBTOTAL:	\$180,480		

LOOSE FURNISHINGS & EQUIPMENT

Non-Instructional Technology Equipment										
		purchase computers for staff	1	allo	15,000.00	15,000	\$15,150		1	2
							Non-Instructional Technology Equipment Subtotal:	\$15,150		
Furnishings, Furniture & Equipment										
		purchase furniture	1	allo	10,000.00	10,000	\$10,000		3	2
		purchase grounds equipment	1	allo	100,000.00	100,000	\$100,000		3	3
							F, F & E Subtotal:	\$110,000		
							LOOSE FURNISHINGS & EQUIPMENT SUBTOTAL:	\$125,150		

BUILDING TOTAL: \$2,120,182 2,628,614

Notes:	Construction Contingency:	\$201,018
escalation calculated to mid-point of project	Design Consultants:	\$164,769
general conditions (G.C.) include; testing, permits, & temp items	Construction Manager:	\$142,645
indirect costs include contingency and professional fees	PROJECT TOTAL:	\$2,628,614

Project Sheet

Senior Center (Leggett)

Project No. 20

Description of Series 1	n/a
Description of Series 2	n/a
Description of Series 3	repave parking lot, replace mechanical equipment
Instructional Technology Description	n/a
Site Work Description	repave parking lot

Construction Cost Per Square Foot

New Construction Square Ft.	n/a	Cost per Sq Ft	n/a
New Addition Square Ft.	n/a	Cost per Sq Ft	n/a

Statement describing any existing environmental or usability problems the proposed project will address. (ex: asbestos, energy use, or ADA requirements)

abate asbestos materials prior to construction

Estimated Cost of Proposed Construction Project

Column1	Series 1	Series 2	Series 3	Total
New Construction	\$0	\$0	\$0	\$0
Remodeling	\$0	\$22,947	\$1,303,211	\$1,326,159
Construction Contingencies	\$0	\$2,295	\$152,064	\$154,358
Instructional Technology	\$0	\$0	\$0	\$0
Loose Furnishing/Equipment	\$0	\$0	\$10,000	\$10,000
Buses	\$0	\$0	\$0	\$0
Site Work	\$0	\$0	\$217,425	\$217,425
Site Acquisition	\$0	\$0	\$0	\$0
Architectural Fees and Costs	\$0	\$1,882	\$124,700	\$126,582
CM Fees and Costs	\$0	\$1,641	\$108,725	\$110,366
Estimated Costs	\$0	\$28,764	\$1,916,125	\$1,944,890

Certificate by Registered Architect

I certify that I have assessed the conditions relative to this facility and the details of the proposed project(s) described above and the attached detail relative to the construction project(s) are true and correct to the best of my knowledge and belief.

Signature	12/10/2019	French Associates	1301031750
	Date	Firm Name and License Number	

Paul A. Corneliusen, AIA	paulc@frenchaia.com	248-656-1377
Printed Name	E-mail Address	Phone Number

WATERFORD SCHOOL DISTRICT	PRELIMINARY - FOR DISCUSSION PURPOSE ONLY	Grades: n/a
2021 BOND PROGRAM		Teaching Stations: n/a
SENIOR CENTER (LEGGETT)	Year Built: 1956	Capacity: n/a
6455 Harper	Site Acreage:	Enrollment: n/a
Building Project Work List	Building Size: 35,991	Date: 12/3/19

Category	Subcategory	Qty.	Unit	Unit Cost	Direct Cost	Total w/ G.C. & escalation	Notes	Category Priority	Series
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SITE WORK

Paving Work									
	replace asphalt	47,000	sqft	3.50	164,500	\$188,741		1	3
	replace concrete walks	1	allo	25,000.00	25,000	\$28,684		1	3
						Paving Work Subtotal:	\$217,425		
						SITE WORK SUBTOTAL:	\$217,425		

REMODELING

Architectural Work									
	abate asbestos/hazardous materials	1	allo	20,000.00	20,000	\$22,947		1	3
	demo bridge	1	lpsm	200,000.00	200,000	\$229,472	pedestrian over road	3	3
						Architectural Work Subtotal:	\$252,419		

Mechanical Work									
HVAC Systems									
	replace boiler system	1	lpsm	250,000.00	250,000	\$286,840	2 boilers from 1967	1	3
	update HVAC system	35,991	sqft	15.00	539,865	\$619,420		1	3
Integrated Automation									
	upgrade temperature controls	1	lpsm	20,000.00	20,000	\$22,947		1	2
						Mechanical Work Subtotal:	\$929,208		
						Construction Subtotal:	\$1,181,627		

Technology Infrastructure									
	upgrade network infrastructure	35,991	sqft	2.50	89,978	\$103,237		1	3
						Technology Infrastructure Subtotal:	\$103,237		

Technology Safety & Security									
	upgrade security infrastructure	35,991	sqft	1.00	35,991	\$41,295		2	3
						Technology Safety & Security Subtotal:	\$41,295		
						Technology & Safety Infrastructure Subtotal:	\$144,531		
						REMODELING SUBTOTAL:	\$1,326,159		

LOOSE FURNISHINGS & EQUIPMENT

Furnishings, Furniture & Equipment									
	purchase furniture	1	allo	10,000.00	10,000	\$10,000		3	3
						F, F & E Subtotal:	\$10,000		
						LOOSE FURNISHINGS & EQUIPMENT SUBTOTAL:	\$10,000		

BUILDING TOTAL: \$1,553,584 1,944,890

Notes:	Construction Contingency:	\$154,358
escalation calculated to mid-point of project	Design Consultants:	\$126,582
general conditions (G.C.) include; testing, permits, & temp items	Construction Manager:	\$110,366
indirect costs include contingency and professional fees	PROJECT TOTAL:	\$1,944,890

WATERFORD SCHOOL DISTRICT	<i>PRELIMINARY - FOR DISCUSSION PURPOSE ONLY</i>	Grades: n/a
2021 BOND PROGRAM		Teaching Stations: n/a
LUTES - COMMUNITY USE	Year Built: 1960	Capacity: n/a
5195 Pontiac Lake Rd.	Site Acreage: 6.00	Enrollment: n/a
Building Project Work List	Building Size: 32,883	Date: 12/3/19

Category	Subcategory	Description	Qty.	Unit	Unit Cost	Direct Cost	Total w/ G.C. & escalation	Notes	Category Priority	Series
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SITE WORK

Paving Work										
		replace asphalt	55,000	sqft	3.50	192,500	\$220,867		1	3
		replace concrete walks	1	allo	25,000.00	25,000	\$28,684		1	3
							Paving Work Subtotal:	\$249,551		
							SITE WORK SUBTOTAL:	\$249,551		

REMODELING

Roofing Work										
		replace roof	32,883	sqft	20.00	657,660	\$754,574	built-up roof	1	3
							Roofing Work Subtotal:	\$754,574		

Mechanical Work										
Integrated Automation										
		upgrade temperature controls	1	lpsm	20,000.00	20,000	\$22,947		1	2
							Mechanical Work Subtotal:	\$22,947		
							Construction Subtotal:	\$777,521		

Technology Infrastructure										
		upgrade network infrastructure	32,883	sqft	2.50	82,208	\$94,322		1	3
							Technology Infrastructure Subtotal:	\$94,322		

Technology Safety & Security										
		upgrade security infrastructure	32,883	sqft	1.00	32,883	\$37,729		2	3
							Technology Safety & Security Subtotal:	\$37,729		
							Technology & Safety Infrastructure Subtotal:	\$132,050		
							REMODELING SUBTOTAL:	\$909,571		

LOOSE FURNISHINGS & EQUIPMENT

Furnishings, Furniture & Equipment										
		purchase furniture	1	allo	10,000.00	10,000	\$10,000		3	3
							F, F & E Subtotal:	\$10,000		
							LOOSE FURNISHINGS & EQUIPMENT SUBTOTAL:	\$10,000		

BUILDING TOTAL: \$1,169,122 1,462,966

<i>Notes:</i>	Construction Contingency:	\$115,912
<i>escalation calculated to mid-point of project</i>	Design Consultants:	\$95,054
<i>general conditions (G.C.) include; testing, permits, & temp items</i>	Construction Manager:	\$82,877
<i>indirect costs include contingency and professional fees</i>	PROJECT TOTAL:	\$1,462,966

WATERFORD SCHOOL DISTRICT	<i>PRELIMINARY - FOR DISCUSSION PURPOSE ONLY</i>	Grades: n/a
2021 BOND PROGRAM		Teaching Stations: n/a
WATERFORD VILLAGE CAMPUS	Year Built: 1910	Capacity: n/a
4241 Steffens	Site Acreage: 7.00	Enrollment: n/a
Building Project Work List	Building Size: 42,319	Date: 12/3/19

Category	Subcategory	Qty.	Unit	Unit Cost	Direct Cost	Total w/ G.C. & escalation	Notes	Category Priority	Series
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SITE WORK

Site Improvements

site restoration		7	acres	1,500.00	10,500	\$12,047		3	3
Site Improvement Subtotal:						\$12,047			
SITE WORK SUBTOTAL:						\$12,047			

REMODELING

Architectural Work

abate asbestos/hazardous materials		42,319	sqft	6.00	253,914	\$291,331	cost per Nova	3	3
demo entire building		42,319	sqft	7.00	296,233	\$339,886		3	3
Architectural Work Subtotal:						\$631,217			

Mechanical Work

Plumbing work

disconnect water/gas for demo		1	allo	5,000.00	5,000	\$5,737		3	3
Mechanical Work Subtotal:						\$5,737			

Electrical Work

Power

disconnect power for demo		1	lpsm	5,000.00	5,000	\$5,737		3	3
Electrical Work Subtotal:						\$5,737			
Construction Subtotal:						\$642,691			
REMODELING SUBTOTAL:						\$642,691			

BUILDING TOTAL:						\$654,738		820,718	
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Notes:	Construction Contingency:	\$65,474
escalation calculated to mid-point of project	Design Consultants:	\$53,692
general conditions (G.C.) include; testing, permits, & temp items	Construction Manager:	\$46,814
indirect costs include contingency and professional fees	PROJECT TOTAL:	\$820,718

Utilization Summary

Waterford School District

63-300

List ALL district facilities in the following order: elementary schools, junior high/middle schools, high schools, and non-instructional facilities.

Proj. No.	Name of School Facility	Current Grade Structure	Proposed Grade Structure	Projected 5-Year Enrollment	Existing Pupil Capacity	New Pupil Capacity	Total Pupil Capacity	Utilization %	Closed Pupil Capacity
1	Beaumont Elementary	K-5	K-5	355	375	0	375	95%	0
2	Cooley Elementary	K-5	K-5	380	400	0	400	95%	0
3	Donelson Hills Elementary	K-5	K-5	429	450	0	450	95%	0
4	Grayson Elementary	K-5	K-5	475	500	0	500	95%	0
5	Haviland Elementary	K-5	K-5	300	315	0	315	95%	0
6	Houghton Elementary	K-5	K-5	410	430	0	430	95%	0
7	Knudsen Elementary	K-5	K-5	300	315	0	315	95%	0
8	Riverside Elementary	K-5	K-5	300	315	0	315	95%	0
9	Schoolcraft Elementary	K-5	K-5	390	410	0	410	95%	0
10	Mason Middle	6-8	6-8	748	1,103	0	1,103	68%	0
11	Pierce Middle	6-8	6-8	748	1,103	0	1,103	68%	0
12	Kettering High	9-12	9-12	1,050	1,360	0	1,360	77%	0
13	Mott High	9-12	9-12	1,150	1,488	0	1,488	77%	0
14	Kingsley Montgomery	S.E.	S.E.	n/a	n/a	n/a	n/a	n/a	n/a
15	Stepanski ECC	preK	preK	n/a	n/a	n/a	n/a	n/a	n/a
16	Admin Building (Crary)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
17	Covert (district tech head end)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
18	Transportation	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
19	Warehouse	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
20	Senior Center (Leggett)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
21	Lutes (community use)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
22	Waterford Village	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Total		preK-12	preK-12	7,035	8,563	0	8,563	82%	0

Facility Summary

Waterford School District

63-300

List ALL district facilities in the following order: elementary schools, junior high/middle schools, high schools, and non-instructional facilities.

Proj. No.	1 Facility Type*	2 Name of School Facility	3 Address	4 City	5 Year Built	6 Year(s) Remodeled	7 Total Sq.Ft.	8 New Site (Acres)	9 Bldg In Use? Y/N	10 Sq Ft of Closed Facility	11 Disposition of Closed Facility**
1	Instructional	Beaumont Elementary	6532 Elizabeth Lake	Waterford	1957	1999, 2019	38,444	0	Yes	0	n/a
2	Instructional	Cooley Elementary	2000 Highfield	Waterford	1958	1999, 2019	45,700	0	Yes	0	n/a
3	Instructional	Donelson Hills Elementary	2690 Wewoka	Waterford	1966	1999, 2017	53,000	0	Yes	0	n/a
4	Instructional	Grayson Elementary	3800 W. Walton Blvd.	Waterford	1959	1999, 2019	42,259	0	Yes	0	n/a
5	Instructional	Haviland Elementary	5305 Cass Elizabeth	Waterford	1959	1999, 2018	48,075	0	Yes	0	n/a
6	Instructional	Houghton Elementary	8080 Elizabeth Lake	Waterford	1961	1999, 2018	55,095	0	Yes	0	n/a
7	Instructional	Knudsen Elementary	5449 Crescent	Waterford	1967	1999	43,086	0	Yes	0	n/a
8	Instructional	Riverside Elementary	5280 Farm	Waterford	1965	1999	50,459	0	Yes	0	n/a
9	Instructional	Schoolcraft Elementary	6400 Maceday	Waterford	1957	1999	42,731	0	Yes	0	n/a
10	Instructional	Mason Middle	3835 W. Walton	Waterford	1965	2006, 2018	146,764	0	Yes	0	n/a
11	Instructional	Pierce Middle	5145 Hatchery	Waterford	1958	1999, 2017	129,393	0	Yes	0	n/a
12	Instructional	Kettering High	2800 Kettering	Waterford	1962	1999, 2006, 2019	339,604	0	Yes	0	n/a
13	Instructional	Mott High	1151 Scott Lake	Waterford	1967	1999, 2016, 2019	361,140	0	Yes	0	n/a
14	Non-Instructional	Kingsley Montgomery	4265 Halkirk	Waterford	1978	2008	42,279	0	Yes	0	n/a
15	Non-Instructional	Stepanski ECC	6010 Hatchery	Waterford	1945	1999	65,000	0	Yes	39,053	1
16	Non-Instructional	Admin Building (Crary)	501 N. Cass Lake	Waterford	1950	1999, 2006	102,100	0	Yes	0	n/a
17	Non-Instructional	Covert (tech head end)	1150 Scott Lake	Waterford	1928	2006	22,339	0	Yes	0	n/a
18	Bus Garage	Transportation	4584 Pontiac Lake	Waterford	1950	2019	14,000	0	Yes	0	n/a
19	Storage	Warehouse	1145 Tee Cee	Waterford	1980		27,800	0	Yes	0	n/a
20	Non-Instructional	Senior Center (Leggett)	6455 Harper	Waterford	1960	1999	25,600	0	Yes	0	n/a
21	Non-Instructional	Lufes (community use)	5195 Pontiac Lake	Waterford	1960	1999	32,883	0	Yes	0	n/a
22	Non-Instructional	Waterford Village	1200 N. Telegraph	Pontiac	1910	1999	42,319	0	Yes	42,319	1
Total							1,770,070	0	-----	81,372	-----

***Facility Type:** **Closed Facility Reference:

- Instructional
- Non-Instructional
- Bus Garage
- Storage
- Stadium
- 1. Demolish
- 2. Convert to non-instructional
- 3. Sell or lease
- 4. Retain for future use
- 5. Undetermined

Cost Summary - SERIES 1

Waterford School District																63-300
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
Proj. #	Cost per Sq Foot	New Cons Sq Feet	New Construction	Remodeling	Contingency	Instructional Technology	Loose Furn and Equip	Buses	Site Work	Site Acq'n	AVE Fees and Costs	CM Fees and Costs	Project Costs	Election/Issue Costs	Total Cost	
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12	301	2,250	678,091	8,670,644	1,130,181	1,715,000	1,250,000	0	238,077	0	918,222	685,457	15,285,672	150,200	15,435,872	
13	301	2,250	678,091	9,679,771	1,246,559	1,823,757	1,250,000	0	283,972	0	1,013,113	760,891	16,736,153	164,453	16,900,606	
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
15	0	0	0	303,268	211,681	0	0	0	1,813,541	0	173,589	151,352	2,653,431	26,073	2,679,505	
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
18	0	0	0	0	0	0	0	700,000	0	0	0	0	700,000	0	700,000	
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total 301	4,500	4,500	1,356,181	18,653,683	2,588,421	3,538,757	2,500,000	700,000	2,335,591	0	2,104,923	1,597,700	35,375,256	347,605	35,722,861	

17. Funding:

Total Estimated Cost of Project: 35,722,861

LESS:

Estimated Interest Earnings: 722,861

Other (specify): 0

AMOUNT OF PROPOSED ISSUE
(Amount to be Qualified) **35,000,000**

Cost Summary - SERIES 2

Waterford School District

63-300

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Proj. #	Cost per Sq Foot	New Cons Sq Feet	New Construction	Remodeling	Contingency	Instructional Technology	Loose Furn and Equip	Buses	Site Work	Site Acq'n	A/E Fees and Costs	CM Fees and Costs	Project Costs	Election/Issue Costs	Total Cost
1	0	0	0	0	19,414	194,142	0	0	0	0	14,949	0	228,505	1,669	230,175
2	0	0	0	0	23,079	230,785	0	0	0	0	17,770	0	271,634	1,984	273,618
3	0	0	0	0	26,765	267,650	0	0	0	0	20,609	0	315,024	2,301	317,325
4	0	0	0	0	21,341	213,408	0	0	0	0	16,432	0	251,181	1,835	253,016
5	0	0	0	0	24,278	242,779	0	0	0	0	18,694	0	285,751	2,088	287,838
6	0	0	0	0	27,823	278,230	0	0	0	0	21,424	0	327,476	2,392	329,869
7	0	0	0	0	21,758	217,584	0	0	0	0	16,754	0	256,097	1,871	257,968
8	0	0	0	0	25,482	254,818	0	0	0	0	19,621	0	299,921	2,191	302,112
9	0	0	0	0	21,579	215,792	0	0	0	0	16,616	0	253,987	1,856	255,842
10	0	0	0	3,282,590	476,953	741,158	670,000	0	745,785	0	387,416	288,029	6,591,931	48,158	6,640,089
11	0	0	0	3,068,899	544,338	653,435	670,000	0	1,721,042	0	443,114	342,481	7,443,307	54,378	7,497,685
12	0	0	0	2,961,328	634,015	0	0	0	3,378,821	0	519,924	453,321	7,947,409	58,061	8,005,469
13	0	0	0	3,149,121	648,335	0	0	0	3,334,232	0	531,667	463,560	8,126,916	59,372	8,186,288
14	0	0	0	1,475,318	171,751	213,509	250,000	0	28,684	0	139,776	107,536	2,386,574	17,435	2,404,009
15	267	65,000	17,376,787	1,099,598	1,940,700	328,250	975,000	0	602,365	0	1,589,828	1,364,131	25,276,658	184,661	25,461,319
16	0	0	0	1,867,106	246,834	0	75,500	0	550,733	0	202,163	172,876	3,115,213	22,759	3,137,971
17	0	0	0	1,892,575	190,772	0	25,150	0	0	0	156,367	135,319	2,400,183	17,535	2,417,718
18	172	1,000	172,104	836,426	106,958	0	25,150	1,000,000	45,894	0	87,635	75,391	2,349,559	17,165	2,366,724
19	86	7,500	645,391	180,480	201,018	0	25,150	0	1,169,161	0	164,769	142,645	2,528,614	18,473	2,547,087
20	0	0	0	22,947	2,295	0	0	0	0	0	1,882	1,641	28,764	210	28,975
21	0	0	0	22,947	2,295	0	0	0	0	0	1,882	1,641	28,764	210	28,975
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	248	73,500	18,194,281	19,859,335	5,377,782	4,051,539	2,715,950	1,000,000	11,576,717	0	4,389,292	3,548,569	70,713,466	516,605	71,230,071

17. Funding:

Total Estimated Cost of Project: 71,230,071
LESS:
 Estimated Interest Earnings: 1,230,071
 Other (specify): 0
AMOUNT OF PROPOSED ISSUE
(Amount to be Qualified) **70,000,000**

Cost Summary - SERIES 3

Waterford School District

63-300

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Proj. #	Cost per Sq Foot	New Cons Sq Feet	New Construction	Remodeling	Contingency	Instructional Technology	Loose Furn and Equip	Buses	Site Work	Site Acq'n	A/E Fees and Costs	CM Fees and Costs	Project Costs	Election/Issue Costs	Total Cost
1	0	0	0	1,805,428	230,001	202,000	325,000	0	292,577	0	187,601	150,007	3,192,614	24,727	3,217,341
2	0	0	0	1,946,957	244,153	202,000	325,000	0	292,577	0	199,207	160,127	3,370,022	26,101	3,396,123
3	0	0	0	2,467,974	296,255	202,000	325,000	0	292,577	0	241,933	197,379	4,023,119	31,159	4,054,278
4	0	0	0	1,879,840	237,442	202,000	325,000	0	292,577	0	193,703	155,328	3,285,890	25,449	3,311,339
5	0	0	0	1,993,282	248,786	202,000	325,000	0	292,577	0	203,006	163,439	3,428,090	26,551	3,454,641
6	0	0	0	2,130,208	262,479	202,000	325,000	0	292,577	0	214,235	173,229	3,599,727	27,880	3,627,607
7	0	0	0	3,635,703	452,727	202,000	325,000	0	689,564	0	370,248	309,257	5,984,498	46,350	6,030,848
8	0	0	0	2,039,782	253,436	202,000	325,000	0	292,577	0	206,819	166,764	3,486,378	27,002	3,513,380
9	0	0	0	1,889,047	238,362	202,000	325,000	0	292,577	0	194,458	155,986	3,297,430	25,539	3,322,969
10	0	0	0	84,196	58,920	505,000	100,000	0	0	0	45,789	6,020	799,925	6,195	806,120
11	0	0	0	74,230	57,923	505,000	100,000	0	0	0	44,972	5,307	787,433	6,099	793,532
12	0	0	0	194,824	120,482	1,010,000	250,000	0	0	0	93,747	13,930	1,682,983	13,035	1,696,018
13	0	0	0	207,179	121,718	1,010,000	250,000	0	0	0	94,760	14,813	1,698,470	13,155	1,711,625
14	0	0	0	0	20,200	202,000	0	0	0	0	15,554	0	237,754	1,841	239,595
15	0	0	0	0	20,200	202,000	0	0	0	0	15,554	0	237,754	1,841	239,595
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	706,319	70,632	0	0	0	0	0	57,922	50,502	885,374	6,857	892,232
18	0	0	0	0	0	0	0	1,000,000	0	0	0	0	1,000,000	7,745	1,007,745
19	0	0	0	0	0	0	100,000	0	0	0	0	0	100,000	775	100,775
20	0	0	0	1,303,211	152,064	0	10,000	0	217,425	0	124,700	108,725	1,916,125	14,840	1,930,966
21	0	0	0	886,624	113,618	0	10,000	0	249,551	0	93,172	81,237	1,434,201	11,108	1,445,309
22	0	0	0	642,691	65,474	0	0	0	12,047	0	53,692	46,814	820,718	6,356	827,074
Total	0	0	0	23,887,497	3,264,870	5,252,000	3,745,000	1,000,000	3,509,204	0	2,651,070	1,958,864	45,268,506	350,605	45,619,111

17. Funding:

Total Estimated Cost of Project: 45,619,111
 LESS:
 Estimated Interest Earnings: 619,111
 Other (specify): 0
AMOUNT OF PROPOSED ISSUE
(Amount to be Qualified) **45,000,000**

Cost Summary - COMBINATION SERIES 1, 2, & 3

Waterford School District

																63-300
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
Proj. #	Cost per Sq Foot	New Cons Sq Feet	New Construction	Remodeling	Contingency	Instructional Technology	Loose Furn and Equip	Buses	Site Work	Site Acq'n	A/E Fees and Costs	CM Fees and Costs	Project Costs	Election/Issue Costs	Total Cost	
1	0	0	0	1,805,428	249,415	396,142	325,000	0	292,577	0	202,550	150,007	3,421,119	27,458	3,448,578	
2	0	0	0	1,946,957	267,232	432,785	325,000	0	292,577	0	216,977	160,127	3,641,656	29,228	3,670,884	
3	0	0	0	2,467,974	323,020	469,650	325,000	0	292,577	0	262,542	197,379	4,338,143	34,819	4,372,961	
4	0	0	0	1,879,840	258,783	415,408	325,000	0	292,577	0	210,135	155,328	3,537,071	28,389	3,565,460	
5	0	0	0	1,993,282	273,064	444,779	325,000	0	292,577	0	221,700	163,439	3,713,841	29,808	3,743,648	
6	0	0	0	2,130,208	290,302	480,230	325,000	0	292,577	0	235,658	173,229	3,927,204	31,520	3,958,724	
7	0	0	0	3,635,703	474,485	419,584	325,000	0	689,564	0	387,002	309,257	6,240,595	50,088	6,290,683	
8	0	0	0	2,039,782	278,918	456,818	325,000	0	292,577	0	226,440	166,764	3,786,299	30,389	3,816,688	
9	0	0	0	1,889,047	259,942	417,792	325,000	0	292,577	0	211,074	155,986	3,551,417	28,504	3,579,921	
10	0	0	0	3,366,785	535,873	1,246,158	770,000	0	745,785	0	433,205	294,049	7,391,855	59,328	7,451,183	
11	0	0	0	3,143,129	602,261	1,158,435	770,000	0	1,721,042	0	488,086	347,788	8,230,740	66,061	8,296,801	
12	301	2,250	678,091	11,826,796	1,884,679	2,725,000	1,500,000	0	3,616,898	0	1,531,892	1,152,708	24,916,063	199,980	25,116,043	
13	301	2,250	678,091	13,036,071	2,016,612	2,833,757	1,500,000	0	3,618,204	0	1,639,540	1,239,264	26,561,539	213,187	26,774,725	
14	0	0	0	1,475,318	191,951	415,509	250,000	0	28,684	0	155,330	107,536	2,624,328	21,063	2,645,391	
15	267	65,000	17,376,787	1,402,866	2,172,581	530,250	975,000	0	2,415,906	0	1,778,971	1,515,482	28,167,843	226,079	28,393,922	
16	0	0	0	1,867,106	246,834	0	75,500	0	550,733	0	202,163	172,876	3,115,213	25,003	3,140,216	
17	0	0	0	2,598,894	261,404	0	25,150	0	0	0	214,289	185,821	3,285,558	26,370	3,311,928	
18	172	1,000	172,104	836,426	106,958	0	25,150	2,700,000	45,894	0	87,635	75,391	4,049,559	32,502	4,082,061	
19	86	7,500	645,391	180,480	201,018	0	125,150	0	1,169,161	0	164,769	142,645	2,628,614	21,098	2,649,712	
20	0	0	0	1,326,159	154,358	0	10,000	0	217,425	0	126,582	110,366	1,944,890	15,610	1,960,500	
21	0	0	0	909,571	115,912	0	10,000	0	249,551	0	95,054	82,877	1,462,966	11,742	1,474,708	
22	0	0	0	642,691	65,474	0	0	0	12,047	0	53,692	46,814	820,718	6,587	827,305	
Total	251	78,000	19,550,463	62,400,514	11,231,074	12,842,296	8,960,950	2,700,000	17,421,512	0	9,145,286	7,105,133	151,357,228	1,214,815	152,572,043	

17. Funding:

Total Estimated Cost of Project: 152,572,043
 LESS:
 Estimated Interest Earnings: 2,572,043
 Other (specify): 0
AMOUNT OF PROPOSED ISSUE
(Amount to be Qualified) **150,000,000**

3881, Worksheet 1: Useful Life Calculation - SERIES 1

A school district must demonstrate that the weighted average maturity of the qualified bond issue does not exceed 120% of the average reasonably expected useful life of the facilities, excluding land and site improvements, being financed with the proceeds of the qualified bonds.

The following table lists the recommended average useful life of the categories of assets that should be considered in this calculation. If a specific item is not listed, it should be assigned to the most closely related category.

Asset Category	Useful Life Years
New School Building	40
Building Improvements - interior and exterior remodeling such as plumbing, electrical, HVAC, fire suppression, security systems, elevators, etc.	30
Roofing	20
Flooring	10
Furnishings and Equipment - furniture and fixtures that are not a structural component of a building such as desks, chairs, tables, storage units, office equipment, copiers, fax machines, communications equipment, kitchen equipment and appliances, athletic equipment, etc.	10
Technology Infrastructure - cables, networks, etc.	10
Buses	6
Technology (instructional and non-instructional) - computers, printers, scanners, etc.	5

Use the worksheet below to calculate the weighted average useful life of assets included in projects funded by bond proceeds.

Follow Column Instructions	→	Enter Value	Col. 1 + Col. 2	Enter Value	Enter Value	Col. 4 + Col. 5	Col. 6 ÷ Col. 6 Total	Col. 3 x Col. 7
Asset Type	Col. 1	Col. 2	Col. 3	Col. 4	Col. 5	Col. 6	Col. 7	Col. 8
Asset Type	Average Useful Life of Asset (in Years)	Time between Bonds Issue Date and Purchase	Useful Life of Asset from Bond Issue Date	Expenditure Amount	Allocation of Related Professional Fees	Total Costs (Incl. Related Fees)	% of Total Cost	Average Useful Life of Assets (in years)
School Buildings	40	1	41	1,491,799	208,852	1,700,651	5.24%	2.15
Building Improvements	30	1	31	16,855,212	2,359,730	19,214,942	59.18%	18.35
Roofing	20	0	20	0	0	0	0.00%	0.00
Flooring	10	0	10	0	0	0	0.00%	0.00
Furnishing/ Equipment	10	1	11	2,500,000	0	2,500,000	7.70%	0.85
Technology Infrastructure	10	1	11	3,663,838	512,937	4,176,776	12.86%	1.42
Technology (instr/non-instr)	5	1	6	3,663,838	512,937	4,176,776	12.86%	0.77
Buses	6	1	7	700,000	0	700,000	2.16%	0.15
Total for purposes of determining weighted avg useful life				28,874,689	3,594,456	32,469,145	100.00%	23.68

120% of average useful life of assets

→

28.41

3881, Worksheet 1: Useful Life Calculation - SERIES 2

A school district must demonstrate that the weighted average maturity of the qualified bond issue does not exceed 120% of the average reasonably expected useful life of the facilities, excluding land and site improvements, being financed with the proceeds of the qualified bonds.

The following table lists the recommended average useful life of the categories of assets that should be considered in this calculation. If a specific item is not listed, it should be assigned to the most closely related category.

Asset Category	Useful Life Years
New School Building	40
Building Improvements - interior and exterior remodeling such as plumbing, electrical, HVAC, fire suppression, security systems, elevators, etc.	30
Roofing	20
Flooring	10
Furnishings and Equipment - furniture and fixtures that are not a structural component of a building such as desks, chairs, tables, storage units, office equipment, copiers, fax machines, communications equipment, kitchen equipment and appliances, athletic equipment, etc.	10
Technology Infrastructure - cables, networks, etc.	10
Buses	6
Technology (instructional and non-instructional) - computers, printers, scanners, etc.	5

Use the worksheet below to calculate the weighted average useful life of assets included in projects funded by bond proceeds.

Follow Column Instructions	→	Enter Value	Col. 1 + Col. 2	Enter Value	Enter Value	Col. 4 + Col. 5	Col. 6 ÷ Col. 6 Total	Col. 3 x Col. 7
Asset Type	Col. 1	Col. 2	Col. 3	Col. 4	Col. 5	Col. 6	Col. 7	Col. 8
Asset Type	Average Useful Life of Asset (in Years)	Time between Bonds Issue Date and Purchase	Useful Life of Asset from Bond Issue Date	Expenditure Amount	Allocation of Related Professional Fees	Total Costs (Incl. Related Fees)	% of Total Cost	Average Useful Life of Assets (in years)
School Buildings	40	1	41	20,013,710	2,801,919	22,815,629	40.35%	16.54
Building Improvements	30	1	31	5,583,650	781,711	6,365,360	11.26%	3.49
Roofing	20	1	21	11,848,082	1,658,731	13,506,813	23.89%	5.02
Flooring	10	0	10	0	0	0	0.00%	0.00
Furnishing/ Equipment	10	1	11	2,620,000	0	2,620,000	4.63%	0.51
Technology Infrastructure	10	1	11	4,413,537	617,895	5,031,433	8.90%	0.98
Technology (instr/non-instr)	5	1	6	4,562,238	638,713	5,200,952	9.20%	0.55
Buses	6	1	7	1,000,000	0	1,000,000	1.77%	0.12
Total for purposes of determining weighted avg useful life				50,041,216	6,498,970	56,540,187	100.00%	27.22

120% of average useful life of assets

→

32.66

3881, Worksheet 1: Useful Life Calculation - SERIES 3

A school district must demonstrate that the weighted average maturity of the qualified bond issue does not exceed 120% of the average reasonably expected useful life of the facilities, excluding land and site improvements, being financed with the proceeds of the qualified bonds.

The following table lists the recommended average useful life of the categories of assets that should be considered in this calculation. If a specific item is not listed, it should be assigned to the most closely related category.

Asset Category	Useful Life Years
New School Building	40
Building Improvements - interior and exterior remodeling such as plumbing, electrical, HVAC, fire suppression, security systems, elevators, etc.	30
Roofing	20
Flooring	10
Furnishings and Equipment - furniture and fixtures that are not a structural component of a building such as desks, chairs, tables, storage units, office equipment, copiers, fax machines, communications equipment, kitchen equipment and appliances, athletic equipment, etc.	10
Technology Infrastructure - cables, networks, etc.	10
Buses	6
Technology (instructional and non-instructional) - computers, printers, scanners, etc.	5

Use the worksheet below to calculate the weighted average useful life of assets included in projects funded by bond proceeds.

Follow Column Instructions	→	Enter Value	Col. 1 + Col. 2	Enter Value	Enter Value	Col. 4 + Col. 5	Col. 6 ÷ Col. 6 Total	Col. 3 x Col. 7
Asset Type	Col. 1	Col. 2	Col. 3	Col. 4	Col. 5	Col. 6	Col. 7	Col. 8
Asset Type	Average Useful Life of Asset (in Years)	Time between Bonds Issue Date and Purchase	Useful Life of Asset from Bond Issue Date	Expenditure Amount	Allocation of Related Professional Fees	Total Costs (Incl. Related Fees)	% of Total Cost	Average Useful Life of Assets (in years)
School Buildings	40	0	40	0	0	0	0.00%	0.00
Building Improvements	30	1	31	16,083,443	2,251,682	18,335,125	44.01%	13.64
Roofing	20	1	21	5,851,999	819,280	6,671,279	16.01%	3.36
Flooring	10	0	10	0	0	0	0.00%	0.00
Furnishing/ Equipment	10	1	11	4,119,500	0	4,119,500	9.89%	1.09
Technology Infrastructure	10	1	11	4,340,804	607,713	4,948,517	11.88%	1.31
Technology (instr/non-instr)	5	1	6	5,777,200	808,808	6,586,008	15.81%	0.95
Buses	6	1	7	1,000,000	0	1,000,000	2.40%	0.17
Total for purposes of determining weighted avg useful life				37,172,946	4,487,483	41,660,429	100.00%	20.52

120% of average useful life of assets

→

24.62

3881, Worksheet 1: Useful Life Calculation - COMBINATION SERIES 1, 2, & 3

A school district must demonstrate that the weighted average maturity of the qualified bond issue does not exceed 120% of the average reasonably expected useful life of the facilities, excluding land and site improvements, being financed with the proceeds of the qualified bonds.

The following table lists the recommended average useful life of the categories of assets that should be considered in this calculation. If a specific item is not listed, it should be assigned to the most closely related category.

Asset Category	Useful Life Years
New School Building	40
Building Improvements - interior and exterior remodeling such as plumbing, electrical, HVAC, fire suppression, security systems, elevators, etc.	30
Roofing	20
Flooring	10
Furnishings and Equipment - furniture and fixtures that are not a structural component of a building such as desks, chairs, tables, storage units, office equipment, copiers, fax machines, communications equipment, kitchen equipment and appliances, athletic equipment, etc.	10
Technology Infrastructure - cables, networks, etc.	10
Buses	6
Technology (instructional and non-instructional) - computers, printers, scanners, etc.	5

Use the worksheet below to calculate the weighted average useful life of assets included in projects funded by bond proceeds.

Follow Column Instructions	→							
	Enter Value	Col. 1 + Col. 2	Enter Value	Enter Value	Col. 4 + Col. 5	Col. 6 ÷ Col. 6 Total	Col. 3 x Col. 7	
Asset Type	Col. 1	Col. 2	Col. 3	Col. 4	Col. 5	Col. 6	Col. 7	Col. 8
	Average Useful Life of Asset (in Years)	Time between Bonds Issue Date and Purchase	Useful Life of Asset from Bond Issue Date	Expenditure Amount	Allocation of Related Professional Fees	Total Costs (Incl. Related Fees)	% of Total Cost	Average Useful Life of Assets (in years)
School Buildings	40	1	41	21,505,509	3,010,771	24,516,280	18.76%	7.69
Building Improvements	30	1	31	38,522,305	5,393,123	43,915,428	33.61%	10.42
Roofing	20	1	21	17,700,081	2,478,011	20,178,092	15.44%	3.24
Flooring	10	0	10	0	0	0	0.00%	0.00
Furnishing/ Equipment	10	1	11	9,239,500	0	9,239,500	7.07%	0.78
Technology Infrastructure	10	1	11	12,418,180	1,738,545	14,156,725	10.83%	1.19
Technology (instr/non-instr)	5	1	6	14,003,277	1,960,459	15,963,735	12.22%	0.73
Buses	6	1	7	2,700,000	0	2,700,000	2.07%	0.14
Total for purposes of determining weighted avg useful life				116,088,851	14,580,909	130,669,760	100.00%	24.20

120% of average useful life of assets

→

29.04

PQ Meeting Sign In Sheet

School District Waterford
Date 12-10-19

Name	Organization	E-Mail Address
Carol Densmore	Department of Treasury	densmorec@michigan.gov
Scott Lindberg	Waterford Schools	lindbs01@wsdmi.org
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Janelle Sabin	Treasury	sabinj1@michigan.gov